Pace Analytical Services

Laboratory Code: 11148

SDG Number: L2473162

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Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2473162
Report Date: 01/07/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2473162-01	MW-11S	WATER	416 MILLER PLACE-YAPHANK ROAD	12/12/24 08:25	12/12/24
L2473162-02	MW-11D	WATER	416 MILLER PLACE-YAPHANK ROAD	12/12/24 08:42	12/12/24
L2473162-03	MW-1SR	WATER	416 MILLER PLACE-YAPHANK ROAD	12/12/24 09:50	12/12/24
L2473162-04	MW-1DR2	WATER	416 MILLER PLACE-YAPHANK ROAD	12/12/24 10:10	12/12/24
L2473162-05	MP-1	WATER	416 MILLER PLACE-YAPHANK ROAD	12/12/24 11:40	12/12/24
L2473162-06	MP-1D	WATER	416 MILLER PLACE-YAPHANK ROAD	12/12/24 12:05	12/12/24
L2473162-07	DUP_121224	WATER	416 MILLER PLACE-YAPHANK ROAD	12/12/24 12:00	12/12/24
L2473162-08	MW-13S	WATER	416 MILLER PLACE-YAPHANK ROAD	12/12/24 14:00	12/12/24
L2473162-09	MW-13D	WATER	416 MILLER PLACE-YAPHANK ROAD	12/12/24 14:05	12/12/24
L2473162-10	EB_121224	EQUIPMENT BLANK	416 MILLER PLACE-YAPHANK ROAD	12/12/24 13:30	12/12/24
L2473162-11	TRIP BLANK	TRIP BLANK (AQUEOUS)	416 MILLER PLACE-YAPHANK ROAD	12/10/24 00:00	12/12/24

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
January 07, 2025: This final report includes the results of all requested analyses.
December 19, 2024: 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 analyses of Ammonium, Iodide, and Sulfide were subcontracted. 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.

Total Metals
The WG2010362-7 MS recovery, performed on L2473162-06, is outside the acceptance criteria for potassium (128%). A post digestion spike was performed and yielded an unacceptable recovery for potassium (132%). The serial dilution recovery was not applicable; therefore, this element fails the matrix test and the result reported in the native sample should be considered estimated.

Anions by Ion Chromatography
The WG2010321-3/-4 MS/MSD recoveries, performed on L2473162-06, are outside the acceptance criteria for bromide (84%); however, the associated LCS recovery is within criteria. No further action was taken.

Chloride
The WG2009725-3 Laboratory Duplicate RPD for chloride (8%), performed on L2473162-06, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

Solids, Total Dissolved

Case Narrative (continued)

The WG2010490-3 Laboratory Duplicate RPD for solids, total dissolved (33%), performed on L2473162-06, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

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: 01/07/25

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 : L2473162

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

Received : 12-DEC-2024
Reviewer : Mohammed Wahed

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	2.3	
B	Absent/	Ice	2.0	
C	Absent/	Ice	2.4	
D	Absent/	Ice	2.4	
E	Absent/	Ice	2.3	
F	Absent/	Ice	4.0	
G	Absent/	Ice	2.2	

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
Jan 07 2025, 08:32 pm

Login Number: L2473162

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 12DEC24 Due Date: 08JAN25

Sample #	Client ID	Mat	PR	Collected
L2473162-01	MW-11S	S0	1	12DEC24 08:25

770810961623 $45.67 USD Pace, IN 770806859992 $64.59 USD Galbraith, TN 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) SUB-Sulfide is direct sub to Pace Melville 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 NYTCL-8270 SIM RVT Report list built ASP-B Package Due Date: 01/08/25

ALK-CO3-2320,ALK-HCO3-2320,ASP-B,BR-300,CL-4500,F-4500,NO2-4500NO2,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

Sample #	Client ID	Mat	PR	Collected
L2473162-02	MW-11D	S0	1	12DEC24 08:42

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) SUB-Sulfide is direct sub to Pace Melville 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 NYTCL-8270 SIM RVT Report list built Package Due Date: 01/08/25

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-4500,F-4500,NO2-4500NO2,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
Jan 07 2025, 08:32 pm

Login Number: L2473162

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 12DEC24 Due Date: 08JAN25

Sample #	Client ID	Mat	PR	Collected
L2473162-03	MW-1SR	S0	1	12DEC24 09:50

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) SUB-Sulfide is direct sub to Pace Melville 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 NYTCL-8270 SIM RVT Report list built Package Due Date: 01/08/25

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
L2473162-04	MW-1DR2	S0	1	12DEC24 10:10

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) SUB-Sulfide is direct sub to Pace Melville 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 NYTCL-8270 SIM RVT Report list built Package Due Date: 01/08/25

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
Jan 07 2025, 08:32 pm

Login Number: L2473162

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 12DEC24 Due Date: 08JAN25

Sample #	Client ID	Mat	PR	Collected
L2473162-05	MP-1		1	S0 12DEC24 11:40

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) SUB-Sulfide is direct sub to Pace Melville 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 NYTCL-8270 SIM RVT Report list built Package Due Date: 01/08/25

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

L2473162-06	MP-1D		1	S0 12DEC24 12:05

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) SUB-Sulfide is direct sub to Pace Melville 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 NYTCL-8270 SIM RVT Report list built L2473162-06 MS L2473162-06 MSD Package Due Date: 01/08/25

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-4500,F-4500,MS/MSD,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
Jan 07 2025, 08:32 pm

Login Number: L2473162

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 12DEC24 Due Date: 08JAN25

Sample #	Client ID	Mat	PR	Collected
L2473162-07	DUP_121224	S0	1	12DEC24 12:00

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) SUB-Sulfide is direct sub to Pace Melville 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 NYTCL-8270 SIM RVT Report list built Package Due Date: 01/08/25

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

L2473162-08	MW-13S	S0	1	12DEC24 14:00

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) SUB-Sulfide is direct sub to Pace Melville 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 NYTCL-8270 SIM RVT Report list built Package Due Date: 01/08/25

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
Jan 07 2025, 08:32 pm

Login Number: L2473162

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 12DEC24 Due Date: 08JAN25

Sample #	Client ID	Mat	PR	Collected
L2473162-09	MW-13D		1	S0 12DEC24 14:05

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) SUB-Sulfide is direct sub to Pace Melville 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 NYTCL-8270 SIM RVT Report list built Package Due Date: 01/08/25

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

L2473162-10	EB_121224		1	S0 12DEC24 13:30

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) SUB-Sulfide is direct sub to Pace Melville 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 NYTCL-8270 SIM RVT Report list built Package Due Date: 01/08/25

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
Jan 07 2025, 08:32 pm

Login Number: L2473162

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 12DEC24 Due Date: 08JAN25

Sample #	Client ID	Mat	PR	Collected
L2473162-11	TRIP BLANK		1	S0 10DEC24 00:00

| Package Due Date: 01/08/25

NYTCL-8260

Logged By: Craig Sloma-Green

NEW YORK CHAIN OF CUSTODY

L2473162 19DEC24
ROUX – NY

Page 1 of 4

Date Rec'd in Lab 12/13/24

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

Client Information

Client: ROUX Env.Eng.&Geology, DPC
Address: 209 Shafter Street
Islandia, NY 11749-5074
Phone: 631-232-2600
Fax:
Email: jmichaels@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: Julia Michaels
ALPHAQuote #: 28577

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

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	OTALNITROGEN(tkn 351	Sample Specific Comments	Total Bottles
73162-01	MW-11S	12/12/24	825	AQ	JC	X	X	X	X	X	X	X	X		14
-02	MW-11D	12/12/24	842	AQ	AI	X	X	X	X	X	X	X	X		14
-03	MW-1SR	12/12/24	950	AQ	AI	X	X	X	X	X	X	X	X		14
-04	MW-1DR2	12/12/24	1010	AQ	JC	X	X	X	X	X	X	X	X		14
-05	MP-1	12/12/24	1140	AQ	AI	X	X	X	X	X	X	X	X		14
-06	MP-1D	12/12/24	1205	AQ	JC	X	X	X	X	X	X	X	X	MS/MSD	42
-07	DUP_121224	12/12/24	1200	AQ	JC	X	X	X	X	X	X	X	X		14
-08	MW-13S	12/12/24	1400	AQ	JC	X	X	X	X	X	X	X	X		14
-09	MW-13D	12/12/24	1405	AQ	AI	X	X	X	X	X	X	X	X		14
-10	EB_121224	12/12/24	1330	AQ	AI	X	X	X	X	X	X	X	X		14

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	V	A	P	A	P	A	A	A	
Preservative	B	A	C	A	A	D	D	D	

Relinquished By:	Date/Time	Received By:	Date/Time
	12/12/24	Pace	12/12 15:08
Pace	12/12 19:00	Pace	12/12/24 1840
Pace	12/12/24	Anthony Green	DEC 12 2024 2120
Anthony Green	12/13/24 0152		12/13/24 0155
	12/13/24 0460		12/13/24 0400

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 4

Date Rec'd in Lab: 12/13/24

ALPHA Job #: L2473162

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

Project Information
Project Name: CORAM MATERIALS
Project Location: 416 Miller Place-Yaphank Rd
Project #: 2232.00006
(Use Project name as Project #) ☐
Project Manager: Julia Michaels
ALPHAQuote #: 28577

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	A2-1,4-DIOXANE-SIM	Sample Specific Comments	Total # Bottles
73162-01	MW-11S	12/12	825	AQ	JC	X	X	X	X	X	X	X			14
-02	MW-11D	12/12	842	AQ	AI	X	X	X	X	X	X	X			14
-03	MW-1SR	12/12	950	AQ	AI	X	X	X	X	X	X	X			14
-04	MW-1DR2	12/12	1010	AQ	JC	X	X	X	X	X	X	X			14
-05	MP-1	12/12	1140	AQ	AI	X	X	X	X	X	X	X			14
-06	MP-1D	12/12	1205	AQ	JC	X	X	X	X	X	X	X		MS/MSD	42
-07	DUP-121224	12/12	1200	AQ	JC	X	X	X	X	X	X	X			14
-08	MW-13S	12/12	1400	AQ	JC	X	X	X	X	X	X	X			14
-09	MW-13D	12/12	1405	AQ	AI	X	X	X	X	X	X	X			14
-10	FB-121224	12/12	1330	AQ	AI	X	X	X	X	X	X	X			14

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

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
	12/12/24	Pace	12/12 15:05
Pace	12/12 19:00	PACE	12/12/24 1840
PACE	12/12/24	Anthony Green DEC 17 2024 2120	
Anthony Green	12/13/24 0155		12/13 0155
	12/13/24 0400		12/13/24 0400

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

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 4

Date Rec'd in Lab: 12/13/24

ALPHA Job #: L2473162

Client Information

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

Project Information

Project Name: CORAM MATERIALS
Project Location: 416 Miller Place-Yaphank Rd
Project #: 2232.0006Y005
(Use Project name as Project #) ☐
Project Manager: Julia Michaels
ALPHAQuote #: 28577

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 Bottle
L2473162-01	MW-11S	12/12	825	AQ	JC	X		14
-02	MW-11D	12/12	842	AQ	AT	X		14
-03	MW-15R	12/12	950	AQ	AT	X		14
-04	MW-10R2	12/12	1010	AQ	JC	X		14
-05	MP-1	12/12	1140	AQ	AT	X		14
-06	MP-1D	12/12	1205	AQ	JC	X	MS/MSD	42
-07	DUP 121224	12/12	1200	AQ	JC	X		14
-08	MW-13S	12/12	1400	AQ	JC	X		14
-09	MW-13D	12/12	1405	AQ	AT	X		14
-10	FB 121224	12/12	1330	AQ	AT	X		14

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
	12/12/24	Pace	12/12 15:00
Pace	12/12 19:08		12/12/24 1840
	12/12/24	Anthony Green	DEC 12 2024 2120
Anthony Green	12/13/24 0155		12/13/24 0155
	12/13/24 0400		12/13/24 0400

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 # 4 of 4

Date Rec'd in Lab: 12/13/24

ALPHA Job #: L2473162

Client Information

Client: ROUX Env.Eng.&Geology, DPC
Address: 209 Shafter Street
Islandia, NY 11749-5074
Phone: 631-232-2600
Fax:
Email: jmichaels@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: Julia Michaels
ALPHAQuote #: 28577

Turn-Around Time

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

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	Cl-4500/ Br-300	NO3-4500	NO2-4500	TOTALNITROGEN(tkn 35	Sample Specific Comments	Total Bottles
73162-11	TRIP BLANK	12/10/24		AQ	MC	X									2

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

Container Type: V
Preservative: B

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
	12/12/24		12/12 15:00
PACE	12/12 19:00	PACE	12/12/24 1840
PACE	12/12/24	Anthony Green	DEC 12 2024 2120
Anthony Green	12/13/24 0155		12/13/24 0155
	12/13/24 0400		12/13/24 0400

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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: L2473162
Project Number: 2232.0006Y005
Matrix: Equipment Blank/Trip Blank (Aqueous)/Water

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
MW-11S (L2473162-01)	103	99	100	105	0
MW-11D (L2473162-02)	106	99	100	108	0
MW-1SR (L2473162-03)	104	99	98	108	0
MW-1DR2 (L2473162-04)	104	99	97	109	0
MP-1 (L2473162-05)	107	98	98	111	0
MP-1D (L2473162-06)	106	97	95	109	0
DUP_121224 (L2473162-07)	104	99	93	109	0
MW-13S (L2473162-08)	105	95	95	107	0
MW-13D (L2473162-09)	104	97	93	111	0
EB_121224 (L2473162-10)	104	100	100	108	0
TRIP BLANK (L2473162-11)	102	100	101	103	0
WG2010821-3LCS	102	100	104	104	0
WG2010821-4LCSD	98	101	104	100	0
WG2010821-5BLANK	103	100	104	108	0
MP-1DMS	99	96	95	107	0
MP-1DMSD	101	96	96	105	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG2010821-3 **Analysis Date** : 12/18/24 07:54	**File ID**	: V22241218A02
LCSD Sample ID	: WG2010821-4 **Analysis Date** : 12/18/24 08:18	**File ID**	: V22241218A03

	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	9.7	97		10	9.4	94	3	70-130	20
1,1-Dichloroethane	10	9.5	95		10	9.4	94	1	70-130	20
Chloroform	10	9.3	93		10	9.0	90	3	70-130	20
Carbon tetrachloride	10	9.7	97		10	9.1	91	6	63-132	20
1,2-Dichloropropane	10	9.3	93		10	8.9	89	4	70-130	20
Dibromochloromethane	10	8.0	80		10	7.9	79	1	63-130	20
1,1,2-Trichloroethane	10	8.4	84		10	8.3	83	1	70-130	20
Tetrachloroethene	10	9.1	91		10	9.1	91	0	70-130	20
Chlorobenzene	10	9.3	93		10	9.3	93	0	75-130	20
Trichlorofluoromethane	10	9.0	90		10	8.8	88	2	62-150	20
1,2-Dichloroethane	10	9.0	90		10	8.8	88	2	70-130	20
1,1,1-Trichloroethane	10	9.4	94		10	9.0	90	4	67-130	20
Bromodichloromethane	10	9.1	91		10	8.5	85	7	67-130	20
trans-1,3-Dichloropropene	10	8.2	82		10	8.0	80	2	70-130	20
cis-1,3-Dichloropropene	10	8.7	87		10	8.5	85	2	70-130	20
Bromoform	10	7.7	77		10	7.6	76	1	54-136	20
1,1,2,2-Tetrachloroethane	10	8.8	88		10	8.6	86	2	67-130	20
Benzene	10	9.0	90		10	8.8	88	2	70-130	20
Toluene	10	9.3	93		10	9.2	92	1	70-130	20
Ethylbenzene	10	9.2	92		10	9.1	91	1	70-130	20
Chloromethane	10	8.5	85		10	8.4	84	1	64-130	20
Bromomethane	10	2.8	28	Q	10	2.9	29	Q 4	39-139	20
Vinyl chloride	10	7.2	72		10	6.9	69	4	55-140	20
Chloroethane	10	6.4	64		10	6.5	65	2	55-138	20
1,1-Dichloroethene	10	9.8	98		10	9.4	94	4	61-145	20
trans-1,2-Dichloroethene	10	9.9	99		10	9.6	96	3	70-130	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG2010821-3 **Analysis Date** : 12/18/24 07:54	**File ID**	: V22241218A02
LCSD Sample ID	: WG2010821-4 **Analysis Date** : 12/18/24 08:18	**File ID**	: V22241218A03

	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	8.7	87	10	9.0	90	3	70-130	20
1,2-Dichlorobenzene	10	9.3	93	10	9.3	93	0	70-130	20
1,3-Dichlorobenzene	10	9.4	94	10	9.2	92	2	70-130	20
1,4-Dichlorobenzene	10	9.3	93	10	9.2	92	1	70-130	20
Methyl tert butyl ether	10	8.7	87	10	8.3	83	5	63-130	20
p/m-Xylene	20	17	85	20	17	85	0	70-130	20
o-Xylene	20	17	85	20	17	85	0	70-130	20
cis-1,2-Dichloroethene	10	9.7	97	10	9.5	95	2	70-130	20
Styrene	20	17	85	20	17	85	0	70-130	20
Dichlorodifluoromethane	10	6.4	64	10	6.2	62	3	36-147	20
Acetone	10	9.6	96	10	9.0	90	6	58-148	20
Carbon disulfide	10	9.9	99	10	9.4	94	5	51-130	20
2-Butanone	10	11	110	10	10	100	10	63-138	20
4-Methyl-2-pentanone	10	7.0	70	10	7.0	70	0	59-130	20
2-Hexanone	10	7.9	79	10	7.6	76	4	57-130	20
Bromochloromethane	10	9.4	94	10	9.3	93	1	70-130	20
1,2-Dibromoethane	10	8.4	84	10	8.3	83	1	70-130	20
1,2-Dibromo-3-chloropropane	10	8.5	85	10	8.2	82	4	41-144	20
Isopropylbenzene	10	9.7	97	10	9.6	96	1	70-130	20
1,2,3-Trichlorobenzene	10	9.4	94	10	9.2	92	2	70-130	20
1,2,4-Trichlorobenzene	10	9.2	92	10	9.2	92	0	70-130	20
Methyl Acetate	10	9.0	90	10	8.6	86	5	70-130	20
Cyclohexane	10	9.5	95	10	9.1	91	4	70-130	20
Freon-113	10	9.8	98	10	9.4	94	4	70-130	20
Methyl cyclohexane	10	8.7	87	10	8.3	83	5	70-130	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2473162-06	**Analysis Date**	: 12/18/24 16:30
Matrix Spike	: WG2010821-6	**MS Analysis Date**	: 12/18/24 18:08
Matrix Spike Dup	: WG2010821-7	**MSD Analysis Date**	: 12/18/24 18:32

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	ND	10	9.8	98		10	10	100	2	70-130	20
1,1-Dichloroethane	ND	10	9.7	97		10	10	100	3	70-130	20
Chloroform	ND	10	9.6	96		10	9.8	98	2	70-130	20
Carbon tetrachloride	ND	10	10	100		10	10	100	0	63-132	20
1,2-Dichloropropane	ND	10	8.9	89		10	9.5	95	7	70-130	20
Dibromochloromethane	ND	10	8.4	84		10	8.9	89	6	63-130	20
1,1,2-Trichloroethane	ND	10	8.3	83		10	8.6	86	4	70-130	20
Tetrachloroethene	ND	10	9.3	93		10	9.6	96	3	70-130	20
Chlorobenzene	ND	10	9.4	94		10	9.7	97	3	75-130	20
Trichlorofluoromethane	ND	10	9.6	96		10	9.9	99	3	62-150	20
1,2-Dichloroethane	ND	10	9.2	92		10	9.6	96	4	70-130	20
1,1,1-Trichloroethane	ND	10	9.9	99		10	10	100	1	67-130	20
Bromodichloromethane	ND	10	8.8	88		10	9.5	95	8	67-130	20
trans-1,3-Dichloropropene	ND	10	7.3	73		10	7.6	76	4	70-130	20
cis-1,3-Dichloropropene	ND	10	7.8	78		10	8.3	83	6	70-130	20
Bromoform	ND	10	7.5	75		10	8.0	80	6	54-136	20
1,1,2,2-Tetrachloroethane	ND	10	8.3	83		10	8.7	87	5	67-130	20
Benzene	ND	10	9.0	90		10	9.4	94	4	70-130	20
Toluene	ND	10	9.0	90		10	9.5	95	5	70-130	20
Ethylbenzene	ND	10	8.8	88		10	9.1	91	3	70-130	20
Chloromethane	ND	10	9.8	98		10	10	100	2	64-130	20
Bromomethane	ND	10	2.3J	23	Q	10	2.8	28	Q 20	39-139	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2473162-06	**Analysis Date**	: 12/18/24 16:30
Matrix Spike	: WG2010821-6	**MS Analysis Date**	: 12/18/24 18:08
Matrix Spike Dup	: WG2010821-7	**MSD Analysis Date**	: 12/18/24 18:32

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Vinyl chloride	ND	10	7.2	72	10	7.5	75	4	55-140	20
Chloroethane	ND	10	6.0	60	10	6.4	64	6	55-138	20
1,1-Dichloroethene	ND	10	10	100	10	10	100	0	61-145	20
trans-1,2-Dichloroethene	ND	10	10	100	10	10	100	0	70-130	20
Trichloroethene	ND	10	8.9	89	10	9.5	95	7	70-130	20
1,2-Dichlorobenzene	ND	10	9.2	92	10	9.4	94	2	70-130	20
1,3-Dichlorobenzene	ND	10	9.3	93	10	9.5	95	2	70-130	20
1,4-Dichlorobenzene	ND	10	9.0	90	10	9.4	94	4	70-130	20
Methyl tert butyl ether	ND	10	8.0	80	10	8.8	88	10	63-130	20
p/m-Xylene	ND	20	17	85	20	18	90	6	70-130	20
o-Xylene	ND	20	16	80	20	17	85	6	70-130	20
cis-1,2-Dichloroethene	ND	10	9.9	99	10	10	100	1	70-130	20
Styrene	ND	20	16	80	20	17	85	6	70-130	20
Dichlorodifluoromethane	ND	10	6.7	67	10	6.9	69	3	36-147	20
Acetone	ND	10	10	100	10	11	110	10	58-148	20
Carbon disulfide	ND	10	9.8	98	10	9.9	99	1	51-130	20
2-Butanone	1.9J	10	11	110	10	11	110	0	63-138	20
4-Methyl-2-pentanone	ND	10	6.3	63	10	6.8	68	8	59-130	20
2-Hexanone	ND	10	7.1	71	10	7.8	78	9	57-130	20
Bromochloromethane	ND	10	10	100	10	11	110	10	70-130	20
1,2-Dibromoethane	ND	10	8.3	83	10	8.8	88	6	70-130	20
1,2-Dibromo-3-chloropropane	ND	10	8.1	81	10	8.6	86	6	41-144	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2473162-06	**Analysis Date**	: 12/18/24 16:30
Matrix Spike	: WG2010821-6	**MS Analysis Date**	: 12/18/24 18:08
Matrix Spike Dup	: WG2010821-7	**MSD Analysis Date**	: 12/18/24 18:32

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Isopropylbenzene	ND	10	8.8	88		10	9.2	92	4	70-130	20
1,2,3-Trichlorobenzene	ND	10	8.9	89		10	9.5	95	7	70-130	20
1,2,4-Trichlorobenzene	ND	10	8.6	86		10	9.0	90	5	70-130	20
Methyl Acetate	ND	10	8.0	80		10	8.5	85	6	70-130	20
Cyclohexane	ND	10	8.5J	85		10	9.1J	91	7	70-130	20
Freon-113	ND	10	9.3	93		10	9.8	98	5	70-130	20
Methyl cyclohexane	ND	10	6.9J	69	Q	10	7.8J	78	12	70-130	20

Method Blank Summary
Form 4
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG2010821-5	**Lab File ID**	: V22241218A05
Instrument ID	: VOA122		
Matrix	: WATER	**Analysis Date**	: 12/18/24 09:07

Client Sample No.	Lab Sample ID	Analysis Date
WG2010821-3LCS	WG2010821-3	12/18/24 07:54
WG2010821-4LCSD	WG2010821-4	12/18/24 08:18
EB_121224	L2473162-10	12/18/24 13:37
TRIP BLANK	L2473162-11	12/18/24 14:02
MW-11S	L2473162-01	12/18/24 14:27
MW-11D	L2473162-02	12/18/24 14:51
MW-1SR	L2473162-03	12/18/24 15:16
MW-1DR2	L2473162-04	12/18/24 15:40
MP-1	L2473162-05	12/18/24 16:05
MP-1D	L2473162-06	12/18/24 16:30
DUP_121224	L2473162-07	12/18/24 16:54
MW-13S	L2473162-08	12/18/24 17:19
MW-13D	L2473162-09	12/18/24 17:43
MP-1DMS	WG2010821-6	12/18/24 18:08
MP-1DMSD	WG2010821-7	12/18/24 18:32

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: VOA122	**Analysis Date**	: 11/09/24 06:36
Tune Standard	: WG1995828-1	**Tune File ID**	: V22241109ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	21.1
75	30.0 - 80.0% of mass 95	49.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.7 (.9)1
174	Greater than 50.0% of mass 95	84.7
175	5.0 - 9.0% of mass 174	6.2 (7.3)1
176	Greater than 95.0% but less than 101% of mass	82.4 (97.3)1
177	5.0 - 9.0% of mass 176	5.5 (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
STD0.19PPB	R1898597-1	V22241109A03	11/09/24 07:44
STD0.5PPB	R1898597-2	V22241109A05	11/09/24 08:33
STD2PPB	R1898597-3	V22241109A07	11/09/24 09:22
STD10PPB	R1898597-4	V22241109A09	11/09/24 10:11
STD30PPB	R1898597-5	V22241109A10	11/09/24 10:36
STD80PPB	R1898597-6	V22241109A11	11/09/24 11:01
STD120PPB	R1898597-7	V22241109A12	11/09/24 11:25
STD200PPB	R1898597-8	V22241109A13	11/09/24 11:49
Correlation Data Summary	R1898597-9	V22241109A18	11/09/24 13:52
ICV Quant Report	R1898597-9	V22241109A18	11/09/24 13:52

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: VOA122	**Analysis Date**	: 12/18/24 07:17
Tune Standard	: WG2010821-1	**Tune File ID**	: V22241218ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	20.8
75	30.0 - 80.0% of mass 95	47.8
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	0.8 (.9)1
174	Greater than 50.0% of mass 95	80.9
175	5.0 - 9.0% of mass 174	5.9 (7.3)1
176	Greater than 95.0% but less than 101% of mass	78.5 (97.1)1
177	5.0 - 9.0% of mass 176	5.3 (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
WG2010821-2CCAL	WG2010821-2	V22241218A02	12/18/24 07:54
WG2010821-3LCS	WG2010821-3	V22241218A02	12/18/24 07:54
WG2010821-4LCSD	WG2010821-4	V22241218A03	12/18/24 08:18
WG2010821-5BLANK	WG2010821-5	V22241218A05	12/18/24 09:07
EB_121224	L2473162-10	V22241218A16	12/18/24 13:37
TRIP BLANK	L2473162-11	V22241218A17	12/18/24 14:02
MW-11S	L2473162-01	V22241218A18	12/18/24 14:27
MW-11D	L2473162-02	V22241218A19	12/18/24 14:51
MW-1SR	L2473162-03	V22241218A20	12/18/24 15:16
MW-1DR2	L2473162-04	V22241218A21	12/18/24 15:40
MP-1	L2473162-05	V22241218A22	12/18/24 16:05
MP-1D	L2473162-06	V22241218A23	12/18/24 16:30
DUP_121224	L2473162-07	V22241218A24	12/18/24 16:54
MW-13S	L2473162-08	V22241218A25	12/18/24 17:19
MW-13D	L2473162-09	V22241218A26	12/18/24 17:43
WG2010821-6MS	WG2010821-6	V22241218A27	12/18/24 18:08
WG2010821-7MSD	WG2010821-7	V22241218A28	12/18/24 18:32

Internal Standard Area and RT Summary
Form 8a
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: VOA122	**Analysis Date**	: 12/18/24 07:54:00
Sample No	: WG2010821-2	**Lab File ID**	: V22241218A02

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG2010821-2	488520	5.94	400401	9.48	207680	12.20
Upper Limit	977040	6.44	800802	9.98	415360	12.70
Lower Limit	244260	5.44	200201	8.98	103840	11.70
Sample ID						
WG2010821-3 LCS	488520	5.94	400401	9.48	207680	12.20
WG2010821-4 LCSD	490889	5.94	394305	9.48	206729	12.20
WG2010821-5 BLANK	457981	5.94	382057	9.48	195364	12.20
EB_121224	382991	5.94	317647	9.48	164922	12.20
TRIP BLANK	382692	5.94	310447	9.48	160663	12.20
MW-11S	384666	5.94	311697	9.48	160892	12.20
MW-11D	369072	5.94	307982	9.48	161272	12.20
MW-1SR	350773	5.94	295235	9.48	155837	12.20
MW-1DR2	359286	5.94	294726	9.48	156813	12.20
MP-1	347603	5.94	292931	9.48	152286	12.20
MP-1D	333821	5.94	283381	9.48	149359	12.20
DUP_121224	334332	5.94	273556	9.48	147023	12.20
MW-13S	332859	5.94	278933	9.48	146346	12.20
MW-13D	311188	5.94	269829	9.48	142465	12.20
MP-1D MS	338815	5.94	282651	9.48	155757	12.20
MP-1D MSD	354378	5.94	294415	9.48	162093	12.20

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

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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		
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			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
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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*		

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.

Volatiles Sample Data

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-01	**Date Collected**	: 12/12/24 08:25
Client ID	: MW-11S	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 14:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V22241218A18	**Instrument ID**	: VOA122
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-01	**Date Collected**	: 12/12/24 08:25
Client ID	: MW-11S	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 14:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V22241218A18	**Instrument ID**	: VOA122
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	1.9	5.0	1.9	J
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-01	**Date Collected**	: 12/12/24 08:25
Client ID	: MW-11S	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 14:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V22241218A18	**Instrument ID**	: VOA122
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-02	**Date Collected**	: 12/12/24 08:42
Client ID	: MW-11D	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 14:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V22241218A19	**Instrument ID**	: VOA122
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-02	**Date Collected**	: 12/12/24 08:42
Client ID	: MW-11D	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 14:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V22241218A19	**Instrument ID**	: VOA122
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	2.0	5.0	1.9	J
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-02	**Date Collected**	: 12/12/24 08:42
Client ID	: MW-11D	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 14:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V22241218A19	**Instrument ID**	: VOA122
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-03	**Date Collected**	: 12/12/24 09:50
Client ID	: MW-1SR	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 15:16
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V22241218A20	**Instrument ID**	: VOA122
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-03	**Date Collected**	: 12/12/24 09:50
Client ID	: MW-1SR	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 15:16
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V22241218A20	**Instrument ID**	: VOA122
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-03	**Date Collected**	: 12/12/24 09:50
Client ID	: MW-1SR	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 15:16
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V22241218A20	**Instrument ID**	: VOA122
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-04	**Date Collected**	: 12/12/24 10:10
Client ID	: MW-1DR2	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 15:40
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V22241218A21	**Instrument ID**	: VOA122
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-04	**Date Collected**	: 12/12/24 10:10
Client ID	: MW-1DR2	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 15:40
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V22241218A21	**Instrument ID**	: VOA122
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	2.0	5.0	1.9	J
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-04	**Date Collected**	: 12/12/24 10:10
Client ID	: MW-1DR2	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 15:40
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V22241218A21	**Instrument ID**	: VOA122
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-05	**Date Collected**	: 12/12/24 11:40
Client ID	: MP-1	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 16:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V22241218A22	**Instrument ID**	: VOA122
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-05	**Date Collected**	: 12/12/24 11:40
Client ID	: MP-1	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 16:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V22241218A22	**Instrument ID**	: VOA122
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	2.0	5.0	1.9	J
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-05	**Date Collected**	: 12/12/24 11:40
Client ID	: MP-1	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 16:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V22241218A22	**Instrument ID**	: VOA122
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-06	**Date Collected**	: 12/12/24 12:05
Client ID	: MP-1D	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 16:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22241218A23	**Instrument ID**	: VOA122
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-06	**Date Collected**	: 12/12/24 12:05
Client ID	: MP-1D	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 16:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22241218A23	**Instrument ID**	: VOA122
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	1.9	5.0	1.9	J
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-06	**Date Collected**	: 12/12/24 12:05
Client ID	: MP-1D	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 16:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22241218A23	**Instrument ID**	: VOA122
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-07	**Date Collected**	: 12/12/24 12:00
Client ID	: DUP_121224	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 16:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22241218A24	**Instrument ID**	: VOA122
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-07	**Date Collected**	: 12/12/24 12:00
Client ID	: DUP_121224	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 16:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22241218A24	**Instrument ID**	: VOA122
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-07	**Date Collected**	: 12/12/24 12:00
Client ID	: DUP_121224	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 16:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22241218A24	**Instrument ID**	: VOA122
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-08	**Date Collected**	: 12/12/24 14:00
Client ID	: MW-13S	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 17:19
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22241218A25	**Instrument ID**	: VOA122
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-08	**Date Collected**	: 12/12/24 14:00
Client ID	: MW-13S	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 17:19
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22241218A25	**Instrument ID**	: VOA122
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-08	**Date Collected**	: 12/12/24 14:00
Client ID	: MW-13S	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 17:19
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22241218A25	**Instrument ID**	: VOA122
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-09	**Date Collected**	: 12/12/24 14:05
Client ID	: MW-13D	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 17:43
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22241218A26	**Instrument ID**	: VOA122
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-09	**Date Collected**	: 12/12/24 14:05
Client ID	: MW-13D	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 17:43
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22241218A26	**Instrument ID**	: VOA122
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	2.0	2.5	0.70	J
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-09	**Date Collected**	: 12/12/24 14:05
Client ID	: MW-13D	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 17:43
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22241218A26	**Instrument ID**	: VOA122
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-10	**Date Collected**	: 12/12/24 13:30
Client ID	: EB_121224	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 13:37
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V22241218A16	**Instrument ID**	: VOA122
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-10	**Date Collected**	: 12/12/24 13:30
Client ID	: EB_121224	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 13:37
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V22241218A16	**Instrument ID**	: VOA122
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	2.0	5.0	1.9	J
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-10	**Date Collected**	: 12/12/24 13:30
Client ID	: EB_121224	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 13:37
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V22241218A16	**Instrument ID**	: VOA122
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-11	**Date Collected**	: 12/10/24 00:00
Client ID	: TRIP BLANK	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 14:02
Sample Matrix	: Trip Blank (aqueous)	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V22241218A17	**Instrument ID**	: VOA122
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-11	**Date Collected**	: 12/10/24 00:00
Client ID	: TRIP BLANK	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 14:02
Sample Matrix	: Trip Blank (aqueous)	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V22241218A17	**Instrument ID**	: VOA122
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-11	**Date Collected**	: 12/10/24 00:00
Client ID	: TRIP BLANK	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 14:02
Sample Matrix	: Trip Blank (aqueous)	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V22241218A17	**Instrument ID**	: VOA122
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010821-5	**Date Collected**	: NA
Client ID	: WG2010821-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/18/24 09:07
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V22241218A05	**Instrument ID**	: VOA122
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	: L2473162
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: WG2010821-5	Date Collected	: NA
Client ID	: WG2010821-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 12/18/24 09:07
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: PID
Lab File ID	: V22241218A05	Instrument ID	: VOA122
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	1.9	5.0	1.9	J
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010821-5	**Date Collected**	: NA
Client ID	: WG2010821-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/18/24 09:07
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V22241218A05	**Instrument ID**	: VOA122
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:\VOA122\2024\241218A\
Data File : V22241218A16.D
Acq On : 18 Dec 2024 01:37 pm
Operator : VOA122:MKS
Sample : L2473162-10,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 18 16:49:46 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.944	96	382991	10.000	ug/L	0.00
Standard Area 1 = 488520			Recovery = 78.40%			
62) Chlorobenzene-d5	9.484	117	317647	10.000	ug/L	0.00
Standard Area 1 = 400401			Recovery = 79.33%			
83) 1,4-Dichlorobenzene-d4	12.202	152	164922	10.000	ug/L	0.00
Standard Area 1 = 207680			Recovery = 79.41%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.138	113	141511	10.825	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.25%			
46) 1,2-Dichloroethane-d4	5.649	65	84295	10.435	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.35%			
63) Toluene-d8	7.640	98	400529	10.001	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.01%			
87) 4-Bromofluorobenzene	10.984	95	134444	9.986	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.86%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.176	94	72	N.D.		
6) Chloroethane	2.254	64	68	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
32) Bromochloromethane	0.000		0	N.D.		
33) Cyclohexane	0.000		0	N.D.		
34) Chloroform	0.000		0	N.D.		
36) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A16.D
Acq On : 18 Dec 2024 01:37 pm
Operator : VOA122:MKS
Sample : L2473162-10,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 18 16:49:46 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39)	1,1,1-Trichloroethane	0.000		0	N.D.			
41)	2-Butanone	5.249	43	2582	1.971	ug/L	#	41
44)	Benzene	0.000		0	N.D.			
47)	1,2-Dichloroethane	0.000		0	N.D.			
50)	Methyl cyclohexane	0.000		0	N.D.			
51)	Trichloroethene	0.000		0	N.D.			
54)	1,2-Dichloropropane	0.000		0	N.D.			
57)	Bromodichloromethane	0.000		0	N.D.			
61)	cis-1,3-Dichloropropene	0.000		0	N.D.			
64)	Toluene	0.000		0	N.D.			
65)	4-Methyl-2-pentanone	0.000		0	N.D.			
66)	Tetrachloroethene	0.000		0	N.D.			
68)	trans-1,3-Dichloropropene	0.000		0	N.D.			
71)	1,1,2-Trichloroethane	0.000		0	N.D.			
72)	Chlorodibromomethane	0.000		0	N.D.			
74)	1,2-Dibromoethane	0.000		0	N.D.			
76)	2-Hexanone	0.000		0	N.D.			
77)	Chlorobenzene	0.000		0	N.D.			
78)	Ethylbenzene	9.484	91	519	N.D.			
80)	p/m Xylene	0.000		0	N.D.			
81)	o Xylene	0.000		0	N.D.			
82)	Styrene	0.000		0	N.D.			
84)	Bromoform	0.000		0	N.D.			
86)	Isopropylbenzene	0.000		0	N.D.			
91)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.			
104)	1,3-Dichlorobenzene	0.000		0	N.D.			
105)	1,4-Dichlorobenzene	0.000		0	N.D.			
108)	1,2-Dichlorobenzene	0.000		0	N.D.			
110)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.			
113)	1,2,4-Trichlorobenzene	0.000		0	N.D.			
115)	1,2,3-Trichlorobenzene	0.000		0	N.D.			

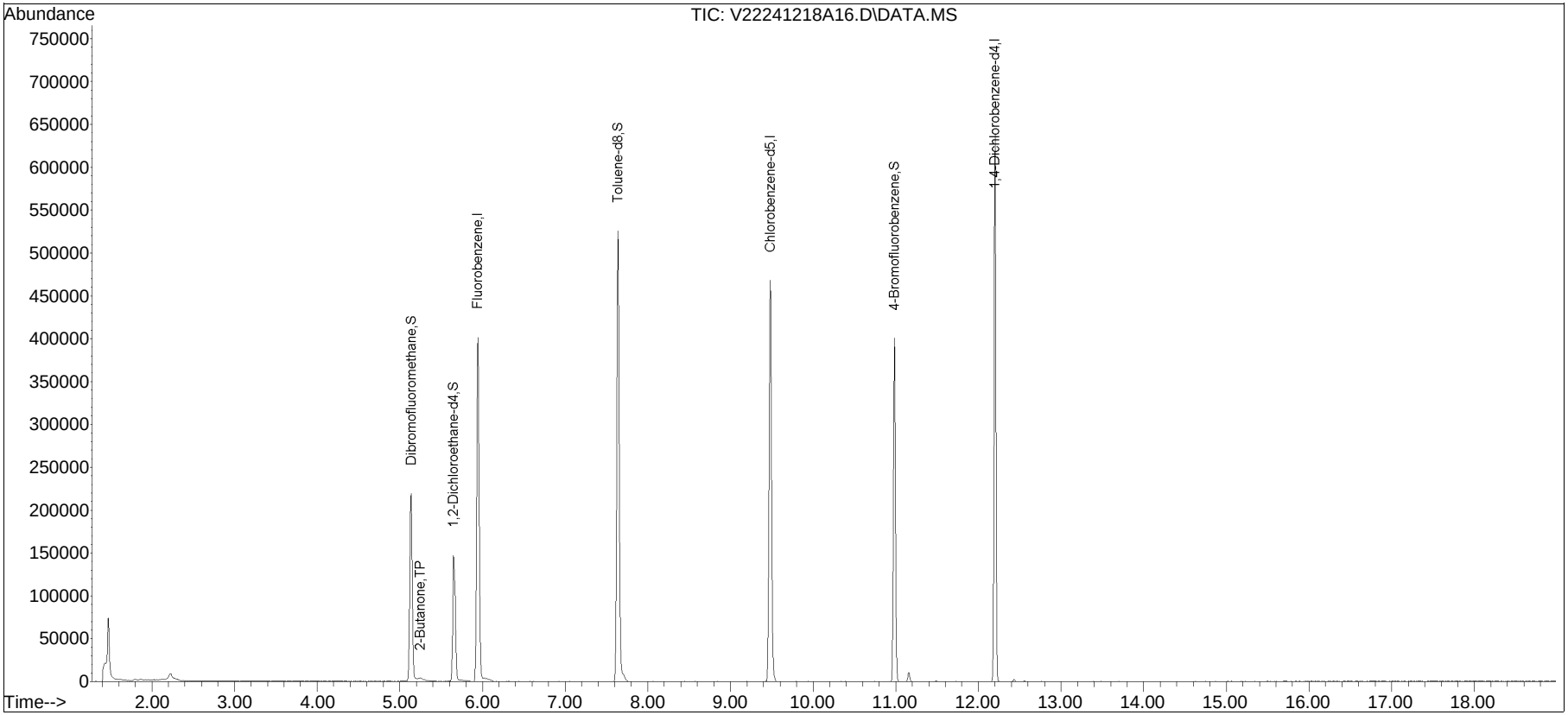
(#) = qualifier out of range (m) = manual integration (+) = signals summed

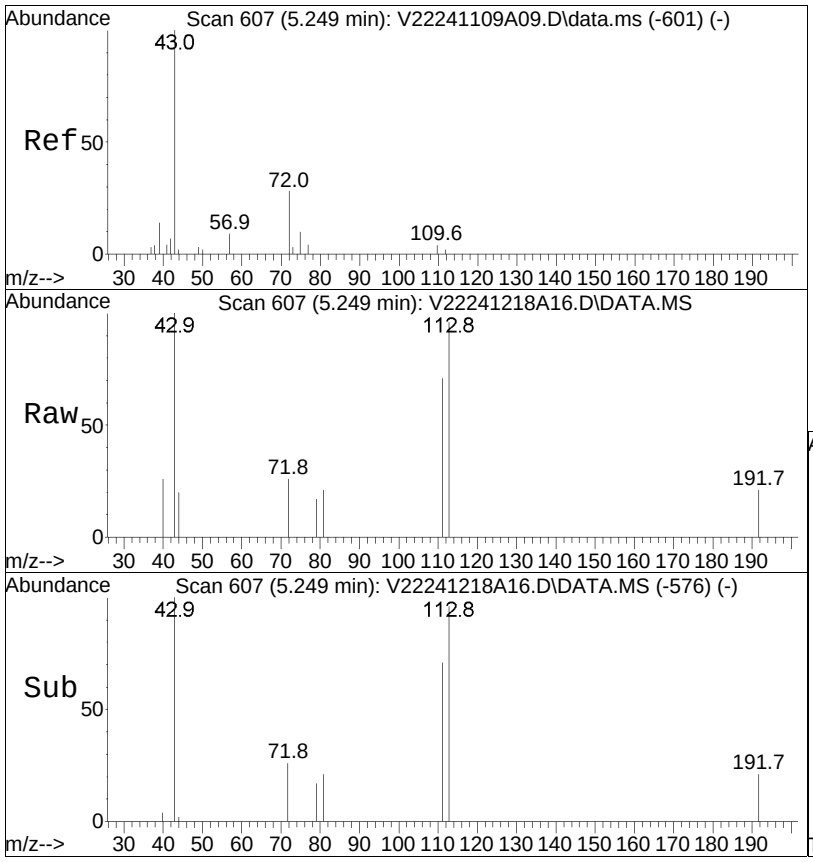
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A16.D
Acq On : 18 Dec 2024 01:37 pm
Operator : VOA122:MKS
Sample : L2473162-10,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 18 16:49:46 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS1218A02.D•

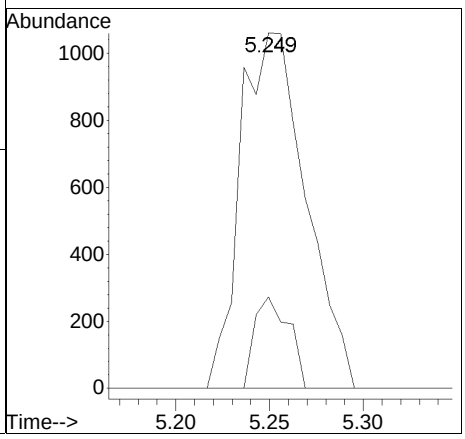




#41
2-Butanone
Concen: 1.97 ug/L
RT: 5.249 min Scan# 607
Delta R.T. -0.000 min
Lab File: V22241218A16.D
Acq: 18 Dec 2024 01:37 pm

Tgt Ion: 43 Resp: 2582

Ion	Ratio	Lower	Upper
43	100		
72	13.4	45.8	68.8#



Manual Integration Report

Data Path	: K:\VOA122\2024\241218A\	QMethod	: V122_241109A_8260.m
Data File	: V22241218A16.D	Operator	: VOA122:MKS
Date Inj'd	: 12/18/2024 1:37 pm	Instrument	: VOA 122
Sample	: L2473162-10,31,10,10,,A	Quant Date	: 12/18/2024 4:45 pm

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A17.D
Acq On : 18 Dec 2024 02:02 pm
Operator : VOA122:MKS
Sample : L2473162-11,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 18 16:50:05 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.944	96	382692	10.000	ug/L	0.00
Standard Area 1 = 488520			Recovery = 78.34%			
62) Chlorobenzene-d5	9.484	117	310447	10.000	ug/L	0.00
Standard Area 1 = 400401			Recovery = 77.53%			
83) 1,4-Dichlorobenzene-d4	12.202	152	160663	10.000	ug/L	0.00
Standard Area 1 = 207680			Recovery = 77.36%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.131	113	135066	10.341	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.41%			
46) 1,2-Dichloroethane-d4	5.649	65	82327	10.200	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.00%			
63) Toluene-d8	7.640	98	390365	9.973	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.73%			
87) 4-Bromofluorobenzene	10.984	95	131979	10.062	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.62%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.	d	
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.545	43	61	N.D.		
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
32) Bromochloromethane	0.000		0	N.D.		
33) Cyclohexane	0.000		0	N.D.		
34) Chloroform	0.000		0	N.D.		
36) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A17.D
Acq On : 18 Dec 2024 02:02 pm
Operator : VOA122:MKS
Sample : L2473162-11,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 18 16:50:05 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39)	1,1,1-Trichloroethane	0.000		0	N.D.		
41)	2-Butanone	5.249	43	2294	1.752	ug/L #	39
44)	Benzene	5.525	78	61	N.D.		
47)	1,2-Dichloroethane	0.000		0	N.D.		
50)	Methyl cyclohexane	0.000		0	N.D.		
51)	Trichloroethene	6.075	95	186	N.D.		
54)	1,2-Dichloropropane	0.000		0	N.D.		
57)	Bromodichloromethane	0.000		0	N.D.		
61)	cis-1,3-Dichloropropene	0.000		0	N.D.		
64)	Toluene	7.703	92	245	N.D.		
65)	4-Methyl-2-pentanone	0.000		0	N.D.		
66)	Tetrachloroethene	0.000		0	N.D.		
68)	trans-1,3-Dichloropropene	0.000		0	N.D.		
71)	1,1,2-Trichloroethane	0.000		0	N.D.		
72)	Chlorodibromomethane	0.000		0	N.D.		
74)	1,2-Dibromoethane	0.000		0	N.D.		
76)	2-Hexanone	0.000		0	N.D.		
77)	Chlorobenzene	0.000		0	N.D.		
78)	Ethylbenzene	9.484	91	478	N.D.		
80)	p/m Xylene	0.000		0	N.D.		
81)	o Xylene	0.000		0	N.D.		
82)	Styrene	0.000		0	N.D.		
84)	Bromoform	0.000		0	N.D.		
86)	Isopropylbenzene	0.000		0	N.D.		
91)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
104)	1,3-Dichlorobenzene	0.000		0	N.D.		
105)	1,4-Dichlorobenzene	0.000		0	N.D.		
108)	1,2-Dichlorobenzene	0.000		0	N.D.		
110)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
113)	1,2,4-Trichlorobenzene	0.000		0	N.D.		
115)	1,2,3-Trichlorobenzene	0.000		0	N.D.		

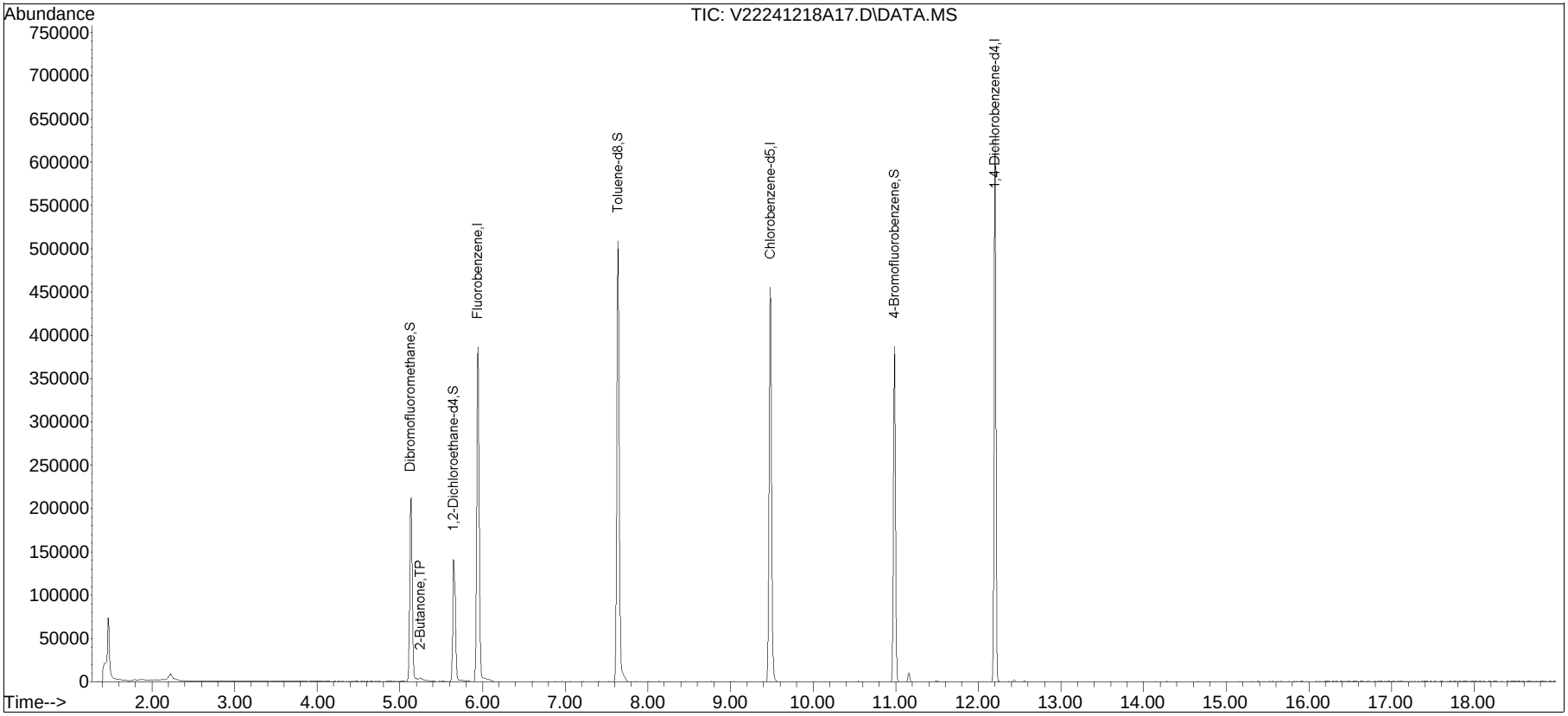
(#) = qualifier out of range (m) = manual integration (+) = signals summed

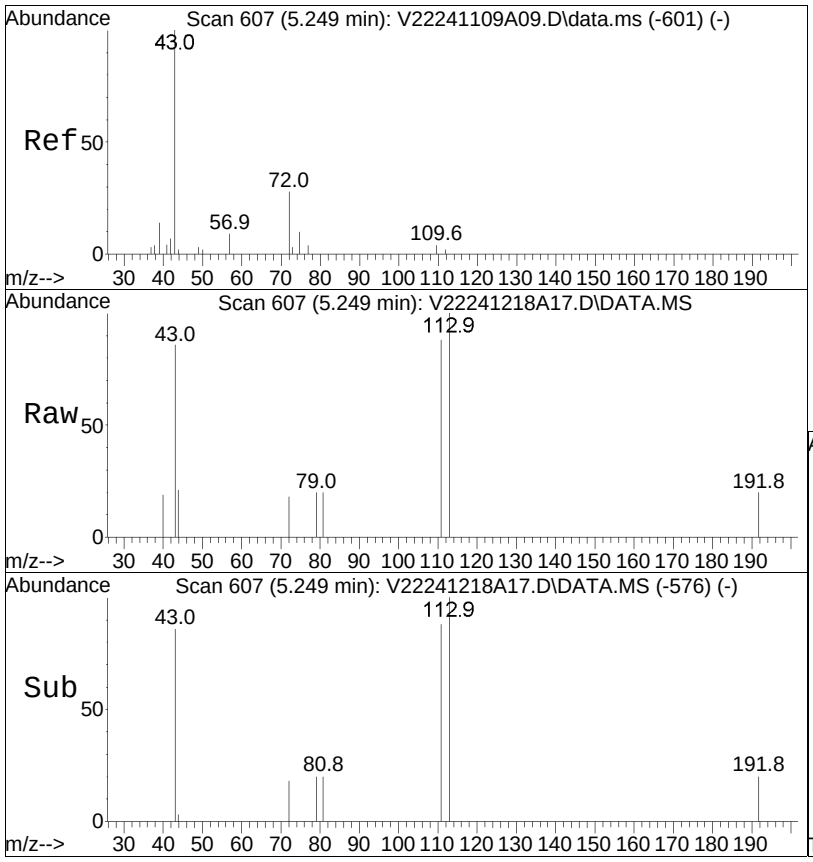
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A17.D
Acq On : 18 Dec 2024 02:02 pm
Operator : VOA122:MKS
Sample : L2473162-11,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 18 16:50:05 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS1218A02.D•

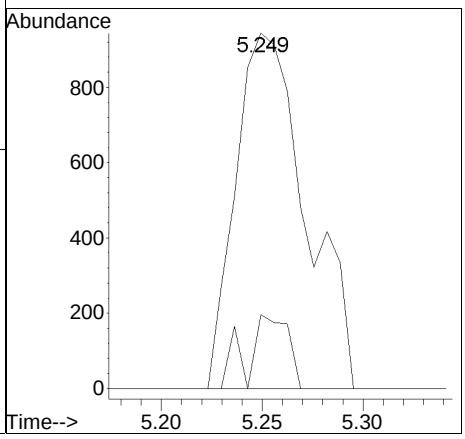




#41
2-Butanone
Concen: 1.75 ug/L
RT: 5.249 min Scan# 607
Delta R.T. -0.000 min
Lab File: V22241218A17.D
Acq: 18 Dec 2024 02:02 pm

Tgt Ion: 43 Resp: 2294

Ion	Ratio	Lower	Upper
43	100		
72	12.1	45.8	68.8#



Manual Integration Report

Data Path	: K:\VOA122\2024\241218A\	QMethod	: V122_241109A_8260.m
Data File	: V22241218A17.D	Operator	: VOA122:MKS
Date Inj'd	: 12/18/2024 2:02 pm	Instrument	: VOA 122
Sample	: L2473162-11,31,10,10,,A	Quant Date	: 12/18/2024 4:45 pm

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A18.D
Acq On : 18 Dec 2024 02:27 pm
Operator : VOA122:MKS
Sample : L2473162-01,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 18 16:50:21 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.944	96	384666	10.000	ug/L	0.00
Standard Area 1 = 488520			Recovery = 78.74%			
62) Chlorobenzene-d5	9.484	117	311697	10.000	ug/L	0.00
Standard Area 1 = 400401			Recovery = 77.85%			
83) 1,4-Dichlorobenzene-d4	12.202	152	160892	10.000	ug/L	0.00
Standard Area 1 = 207680			Recovery = 77.47%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.131	113	137368	10.463	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.63%			
46) 1,2-Dichloroethane-d4	5.649	65	83852	10.335	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.35%			
63) Toluene-d8	7.640	98	390822	9.945	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.45%			
87) 4-Bromofluorobenzene	10.984	95	131763	10.032	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.32%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	2.195	64	259	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.936	76	63	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.499	43	145	N.D.		
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
32) Bromochloromethane	0.000		0	N.D.		
33) Cyclohexane	0.000		0	N.D.		
34) Chloroform	0.000		0	N.D.		
36) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A18.D
Acq On : 18 Dec 2024 02:27 pm
Operator : VOA122:MKS
Sample : L2473162-01,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 18 16:50:21 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-Trichloroethane	0.000		0	N.D.		
41) 2-Butanone	5.249	43	2482	1.886	ug/L #	40
44) Benzene	0.000		0	N.D.		
47) 1,2-Dichloroethane	0.000		0	N.D.		
50) Methyl cyclohexane	0.000		0	N.D.		
51) Trichloroethene	0.000		0	N.D.		
54) 1,2-Dichloropropane	0.000		0	N.D.		
57) Bromodichloromethane	0.000		0	N.D.		
61) cis-1,3-Dichloropropene	0.000		0	N.D.		
64) Toluene	7.703	92	63	N.D.		
65) 4-Methyl-2-pentanone	0.000		0	N.D.		
66) Tetrachloroethene	0.000		0	N.D.		
68) trans-1,3-Dichloropropene	0.000		0	N.D.		
71) 1,1,2-Trichloroethane	0.000		0	N.D.		
72) Chlorodibromomethane	0.000		0	N.D.		
74) 1,2-Dibromoethane	0.000		0	N.D.		
76) 2-Hexanone	0.000		0	N.D.		
77) Chlorobenzene	0.000		0	N.D.		
78) Ethylbenzene	9.477	91	526	N.D.		
80) p/m Xylene	0.000		0	N.D.		
81) o Xylene	0.000		0	N.D.		
82) Styrene	0.000		0	N.D.		
84) Bromoform	0.000		0	N.D.		
86) Isopropylbenzene	0.000		0	N.D.		
91) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
104) 1,3-Dichlorobenzene	0.000		0	N.D.		
105) 1,4-Dichlorobenzene	0.000		0	N.D.		
108) 1,2-Dichlorobenzene	0.000		0	N.D.		
110) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
113) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
115) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

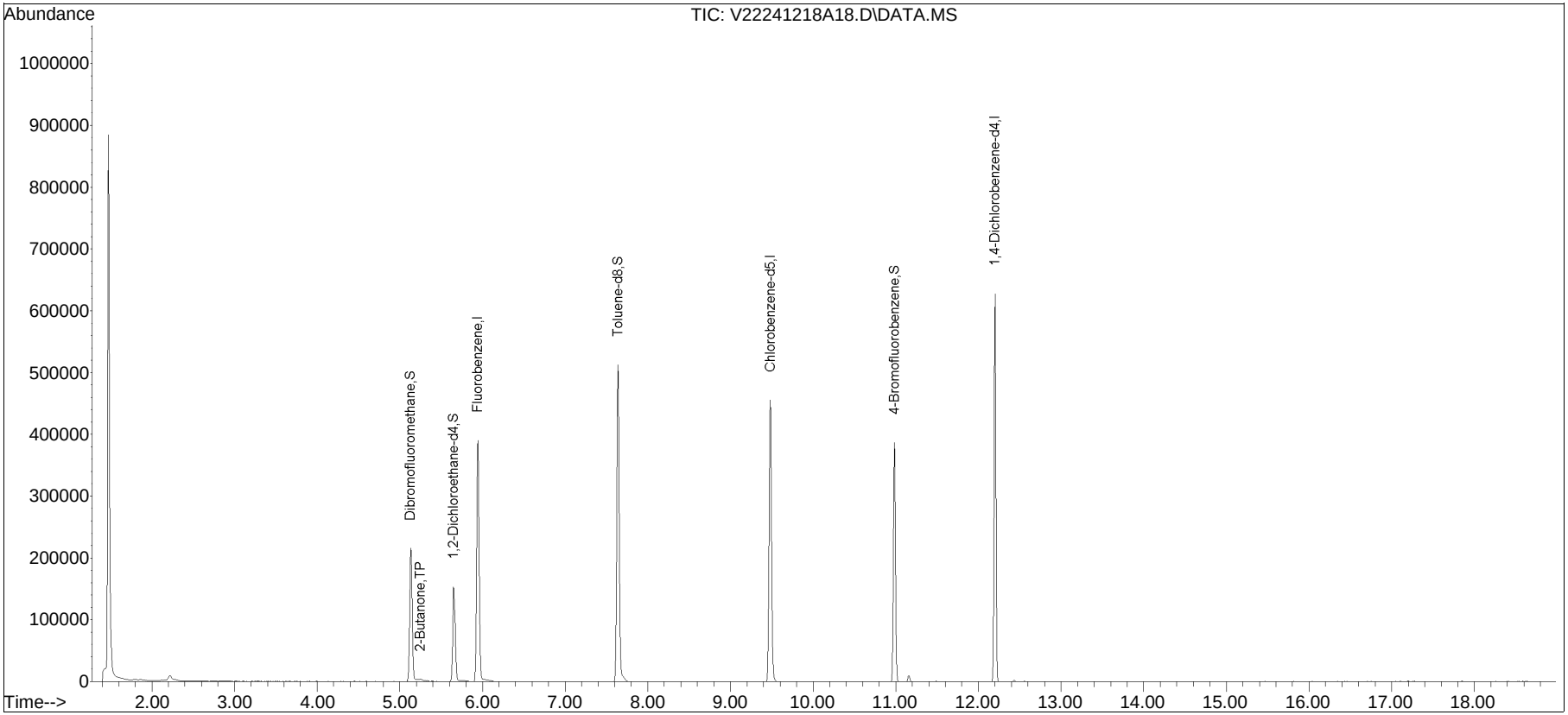
(#) = qualifier out of range (m) = manual integration (+) = signals summed

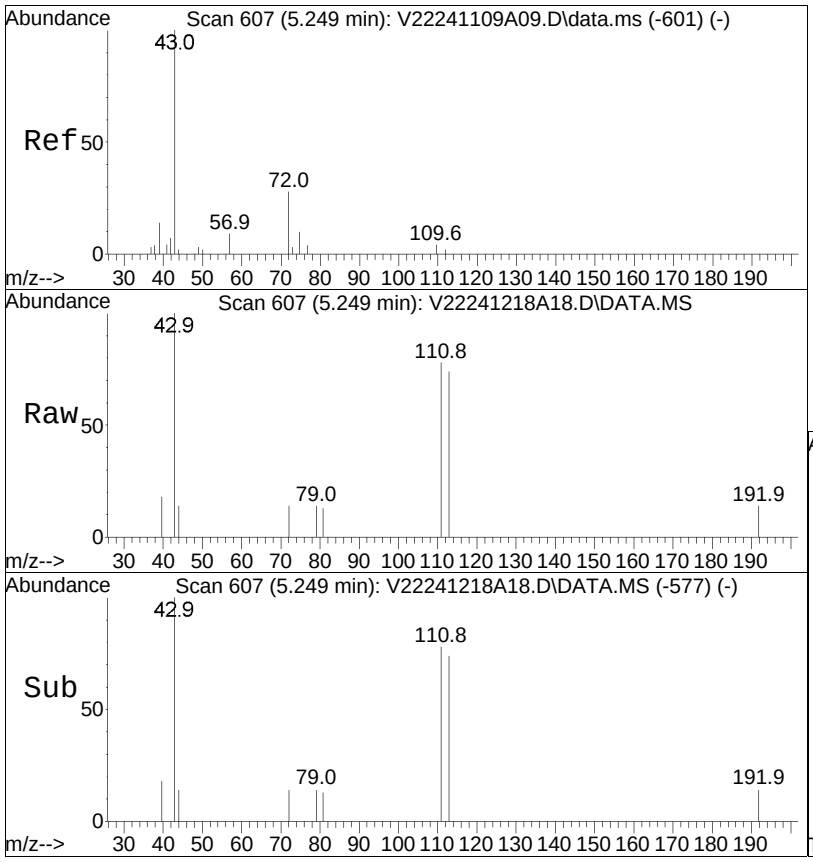
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A18.D
Acq On : 18 Dec 2024 02:27 pm
Operator : VOA122:MKS
Sample : L2473162-01,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 18 16:50:21 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS1218A02.D•

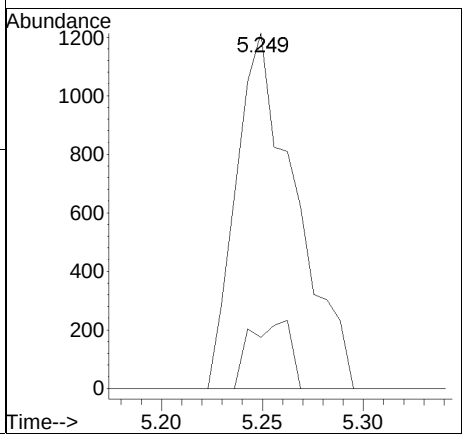




#41
2-Butanone
Concen: 1.89 ug/L
RT: 5.249 min Scan# 607
Delta R.T. -0.000 min
Lab File: V22241218A18.D
Acq: 18 Dec 2024 02:27 pm

Tgt Ion: 43 Resp: 2482

Ion	Ratio	Lower	Upper
43	100		
72	13.1	45.8	68.8#



Manual Integration Report

Data Path	: K:\VOA122\2024\241218A\	QMethod	: V122_241109A_8260.m
Data File	: V22241218A18.D	Operator	: VOA122:MKS
Date Inj'd	: 12/18/2024 2:27 pm	Instrument	: VOA 122
Sample	: L2473162-01,31,10,10,,A	Quant Date	: 12/18/2024 4:45 pm

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A19.D
Acq On : 18 Dec 2024 02:51 pm
Operator : VOA122:MKS
Sample : L2473162-02,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 18 16:50:41 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.944	96	369072	10.000	ug/L	0.00
Standard Area 1 = 488520			Recovery = 75.55%			
62) Chlorobenzene-d5	9.484	117	307982	10.000	ug/L	0.00
Standard Area 1 = 400401			Recovery = 76.92%			
83) 1,4-Dichlorobenzene-d4	12.202	152	161272	10.000	ug/L	0.00
Standard Area 1 = 207680			Recovery = 77.65%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.131	113	135535	10.759	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.59%			
46) 1,2-Dichloroethane-d4	5.649	65	82719	10.627	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.27%			
63) Toluene-d8	7.640	98	383528	9.877	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.77%			
87) 4-Bromofluorobenzene	10.984	95	130997	9.950	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.50%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	2.221	64	407	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
21) Methyl tert-butyl ether	3.709	73	542	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
32) Bromochloromethane	0.000		0	N.D.		
33) Cyclohexane	0.000		0	N.D.		
34) Chloroform	0.000		0	N.D.		
36) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A19.D
Acq On : 18 Dec 2024 02:51 pm
Operator : VOA122:MKS
Sample : L2473162-02,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 18 16:50:41 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) 1,1,1-Trichloroethane	0.000		0	N.D.			
41) 2-Butanone	5.249	43	2481	1.965	ug/L	#	40
44) Benzene	0.000		0	N.D.			
47) 1,2-Dichloroethane	0.000		0	N.D.			
50) Methyl cyclohexane	0.000		0	N.D.			
51) Trichloroethene	0.000		0	N.D.	d		
54) 1,2-Dichloropropane	0.000		0	N.D.			
57) Bromodichloromethane	0.000		0	N.D.			
61) cis-1,3-Dichloropropene	0.000		0	N.D.			
64) Toluene	0.000		0	N.D.			
65) 4-Methyl-2-pentanone	0.000		0	N.D.			
66) Tetrachloroethene	0.000		0	N.D.			
68) trans-1,3-Dichloropropene	0.000		0	N.D.			
71) 1,1,2-Trichloroethane	0.000		0	N.D.			
72) Chlorodibromomethane	0.000		0	N.D.			
74) 1,2-Dibromoethane	0.000		0	N.D.			
76) 2-Hexanone	0.000		0	N.D.			
77) Chlorobenzene	0.000		0	N.D.			
78) Ethylbenzene	9.484	91	458	N.D.			
80) p/m Xylene	0.000		0	N.D.			
81) o Xylene	0.000		0	N.D.			
82) Styrene	0.000		0	N.D.			
84) Bromoform	0.000		0	N.D.			
86) Isopropylbenzene	0.000		0	N.D.			
91) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.			
104) 1,3-Dichlorobenzene	0.000		0	N.D.			
105) 1,4-Dichlorobenzene	0.000		0	N.D.			
108) 1,2-Dichlorobenzene	0.000		0	N.D.			
110) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.			
113) 1,2,4-Trichlorobenzene	0.000		0	N.D.			
115) 1,2,3-Trichlorobenzene	0.000		0	N.D.			

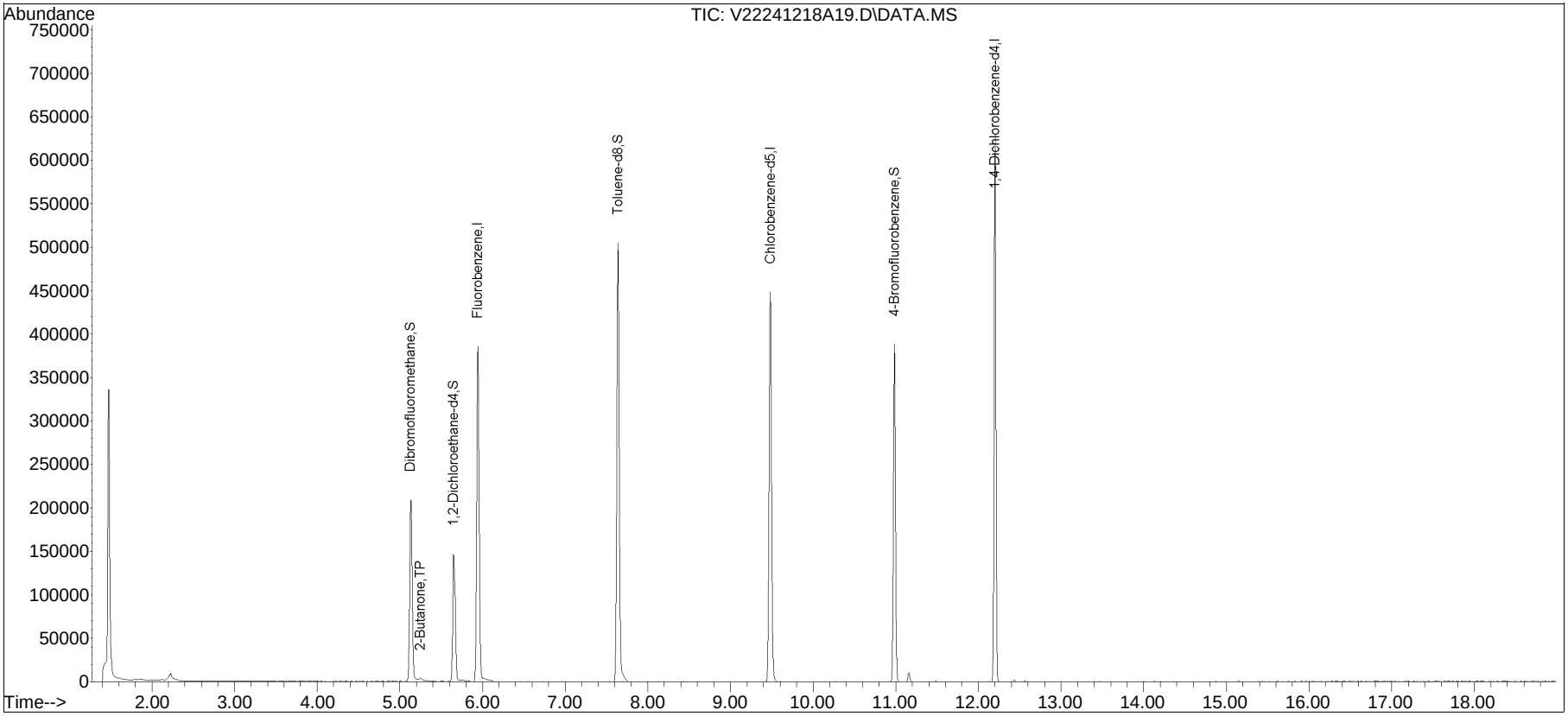
(#) = qualifier out of range (m) = manual integration (+) = signals summed

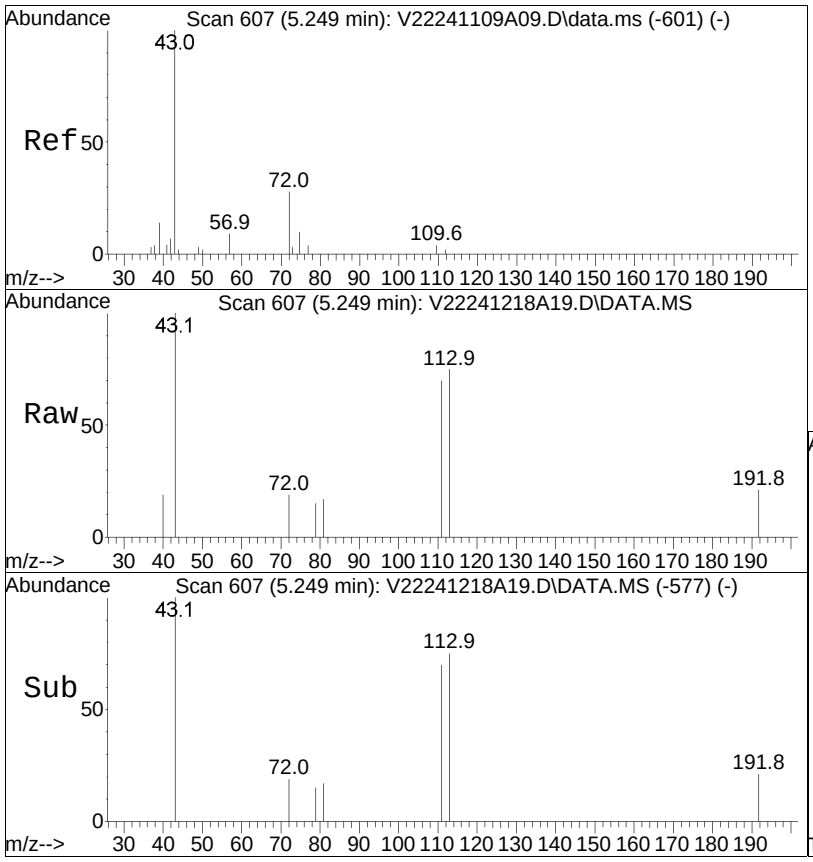
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A19.D
Acq On : 18 Dec 2024 02:51 pm
Operator : VOA122:MKS
Sample : L2473162-02,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 18 16:50:41 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS1218A02.D•

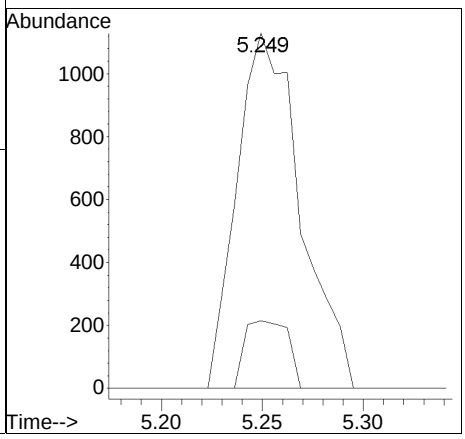




#41
2-Butanone
Concen: 1.97 ug/L
RT: 5.249 min Scan# 607
Delta R.T. -0.000 min
Lab File: V22241218A19.D
Acq: 18 Dec 2024 02:51 pm

Tgt Ion: 43 Resp: 2481

Ion	Ratio	Lower	Upper
43	100		
72	12.9	45.8	68.8#



Manual Integration Report

Data Path	: K:\VOA122\2024\241218A\	QMethod	: V122_241109A_8260.m
Data File	: V22241218A19.D	Operator	: VOA122:MKS
Date Inj'd	: 12/18/2024 2:51 pm	Instrument	: VOA 122
Sample	: L2473162-02,31,10,10,,A	Quant Date	: 12/18/2024 4:45 pm

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A20.D
Acq On : 18 Dec 2024 03:16 pm
Operator : VOA122:MKS
Sample : L2473162-03,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 18 16:53:02 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.944	96	350773	10.000	ug/L	0.00
Standard Area 1 = 488520			Recovery = 71.80%			
62) Chlorobenzene-d5	9.484	117	295235	10.000	ug/L	0.00
Standard Area 1 = 400401			Recovery = 73.73%			
83) 1,4-Dichlorobenzene-d4	12.202	152	155837	10.000	ug/L	0.00
Standard Area 1 = 207680			Recovery = 75.04%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.138	113	129654	10.829	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.29%			
46) 1,2-Dichloroethane-d4	5.649	65	76914	10.396	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.96%			
63) Toluene-d8	7.640	98	370168	9.945	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.45%			
87) 4-Bromofluorobenzene	10.985	95	124334	9.773	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.73%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	2.248	64	62	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
32) Bromochloromethane	0.000		0	N.D.		
33) Cyclohexane	0.000		0	N.D.		
34) Chloroform	4.955	83	59	N.D.		
36) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A20.D
Acq On : 18 Dec 2024 03:16 pm
Operator : VOA122:MKS
Sample : L2473162-03,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 18 16:53:02 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39)	1,1,1-Trichloroethane	0.000		0	N.D.			
41)	2-Butanone	5.256	43	2156	1.797	ug/L	#	41
44)	Benzene	0.000		0	N.D.			
47)	1,2-Dichloroethane	0.000		0	N.D.			
50)	Methyl cyclohexane	0.000		0	N.D.			
51)	Trichloroethene	6.069	95	229	N.D.			
54)	1,2-Dichloropropane	0.000		0	N.D.			
57)	Bromodichloromethane	0.000		0	N.D.			
61)	cis-1,3-Dichloropropene	0.000		0	N.D.			
64)	Toluene	0.000		0	N.D.			
65)	4-Methyl-2-pentanone	0.000		0	N.D.			
66)	Tetrachloroethene	0.000		0	N.D.			
68)	trans-1,3-Dichloropropene	0.000		0	N.D.			
71)	1,1,2-Trichloroethane	0.000		0	N.D.			
72)	Chlorodibromomethane	0.000		0	N.D.			
74)	1,2-Dibromoethane	0.000		0	N.D.			
76)	2-Hexanone	0.000		0	N.D.			
77)	Chlorobenzene	0.000		0	N.D.			
78)	Ethylbenzene	9.484	91	391	N.D.			
80)	p/m Xylene	0.000		0	N.D.			
81)	o Xylene	0.000		0	N.D.			
82)	Styrene	0.000		0	N.D.			
84)	Bromoform	0.000		0	N.D.			
86)	Isopropylbenzene	0.000		0	N.D.			
91)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.			
104)	1,3-Dichlorobenzene	0.000		0	N.D.			
105)	1,4-Dichlorobenzene	0.000		0	N.D.			
108)	1,2-Dichlorobenzene	0.000		0	N.D.			
110)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.			
113)	1,2,4-Trichlorobenzene	0.000		0	N.D.			
115)	1,2,3-Trichlorobenzene	0.000		0	N.D.			

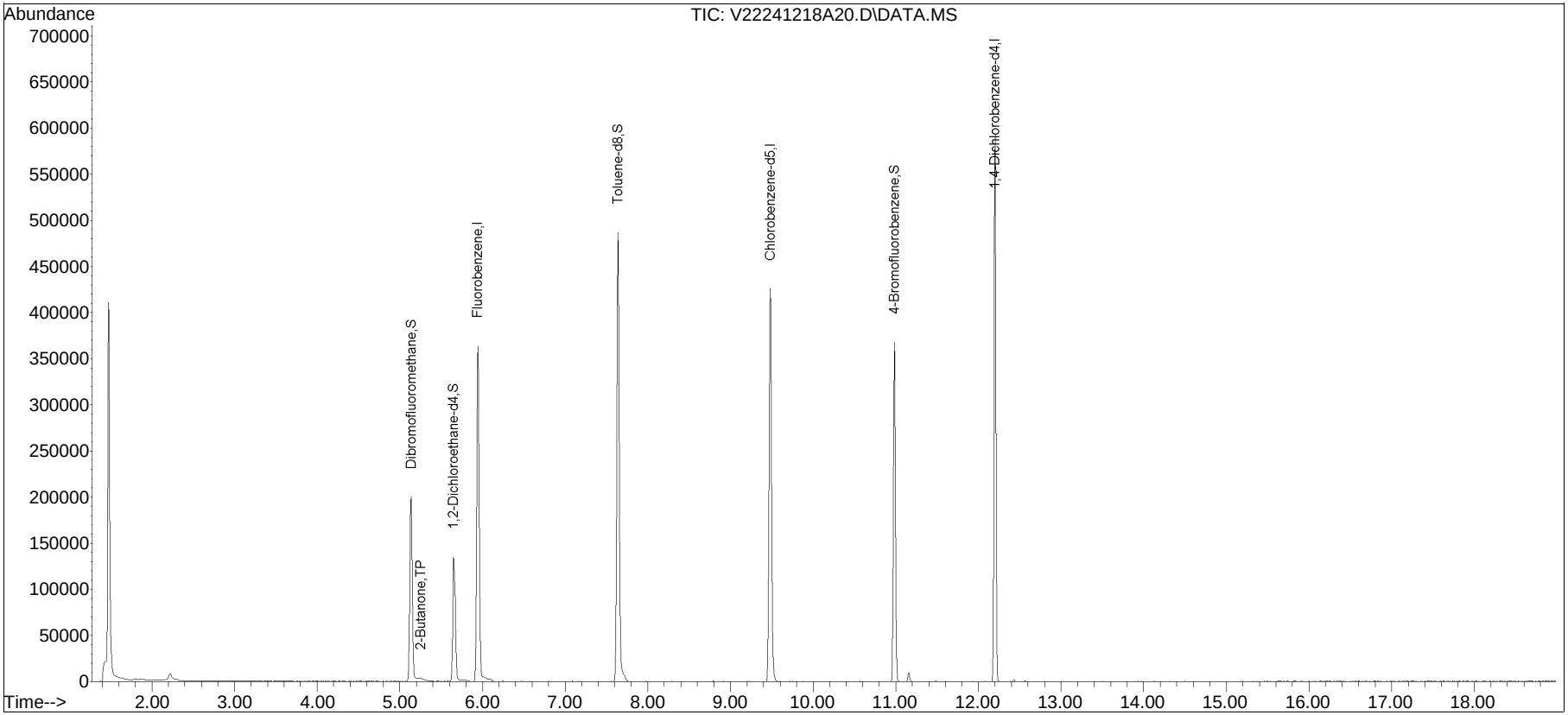
(#) = qualifier out of range (m) = manual integration (+) = signals summed

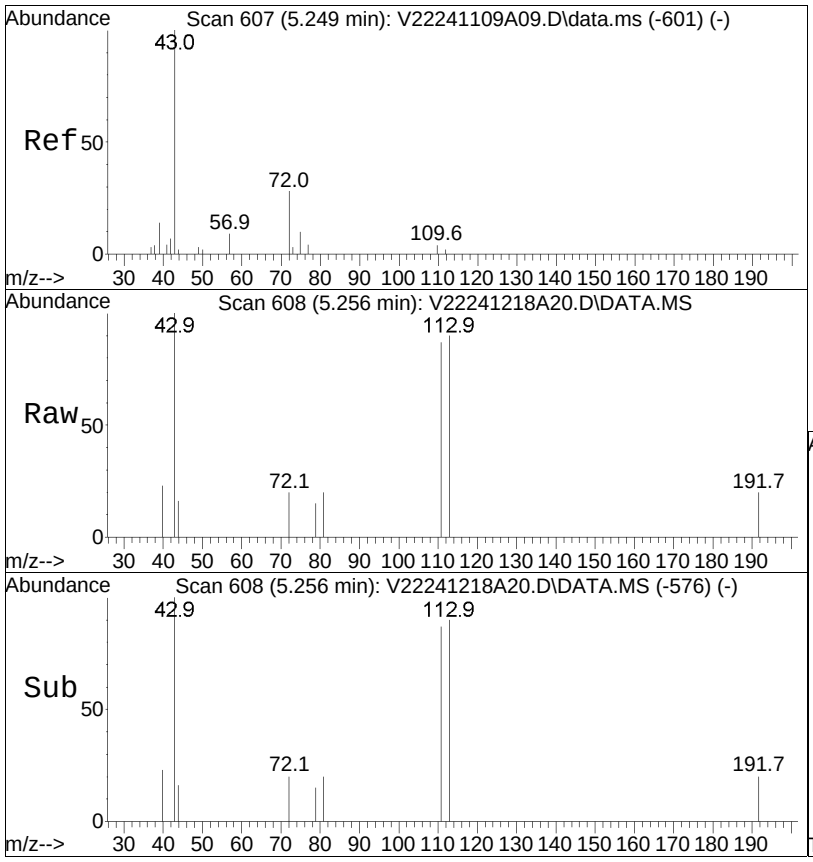
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A20.D
Acq On : 18 Dec 2024 03:16 pm
Operator : VOA122:MKS
Sample : L2473162-03,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 18 16:53:02 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS1218A02.D•

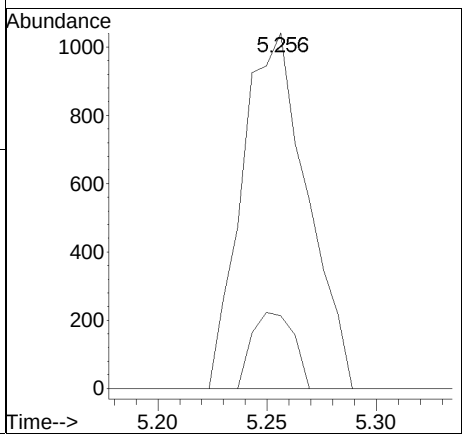




#41
2-Butanone
Concen: 1.80 ug/L
RT: 5.256 min Scan# 608
Delta R.T. 0.007 min
Lab File: V22241218A20.D
Acq: 18 Dec 2024 03:16 pm

Tgt Ion: 43 Resp: 2156

Ion	Ratio	Lower	Upper
43	100		
72	13.8	45.8	68.8#



Manual Integration Report

Data Path	: K:\VOA122\2024\241218A\	QMethod	: V122_241109A_8260.m
Data File	: V22241218A20.D	Operator	: VOA122:MKS
Date Inj'd	: 12/18/2024 3:16 pm	Instrument	: VOA 122
Sample	: L2473162-03,31,10,10,,A	Quant Date	: 12/18/2024 4:45 pm

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A21.D
Acq On : 18 Dec 2024 03:40 pm
Operator : VOA122:MKS
Sample : L2473162-04,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 18 16:53:19 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.944	96	359286	10.000	ug/L	0.00
Standard Area 1 = 488520			Recovery = 73.55%			
62) Chlorobenzene-d5	9.484	117	294726	10.000	ug/L	0.00
Standard Area 1 = 400401			Recovery = 73.61%			
83) 1,4-Dichlorobenzene-d4	12.202	152	156813	10.000	ug/L	0.00
Standard Area 1 = 207680			Recovery = 75.51%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.131	113	133950	10.923	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.23%			
46) 1,2-Dichloroethane-d4	5.649	65	79074	10.435	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.35%			
63) Toluene-d8	7.640	98	367900	9.901	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.01%			
87) 4-Bromofluorobenzene	10.984	95	124295	9.709	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.09%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	2.241	64	143	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
32) Bromochloromethane	0.000		0	N.D.		
33) Cyclohexane	0.000		0	N.D.		
34) Chloroform	4.961	83	1833	0.180	ug/L #	97
36) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A21.D
Acq On : 18 Dec 2024 03:40 pm
Operator : VOA122:MKS
Sample : L2473162-04,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 18 16:53:19 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39)	1,1,1-Trichloroethane	0.000		0	N.D.			
41)	2-Butanone	5.249	43	2452	1.995	ug/L	#	36
44)	Benzene	0.000		0	N.D.			
47)	1,2-Dichloroethane	0.000		0	N.D.			
50)	Methyl cyclohexane	0.000		0	N.D.			
51)	Trichloroethene	6.036	95	255	N.D.			
54)	1,2-Dichloropropane	0.000		0	N.D.			
57)	Bromodichloromethane	0.000		0	N.D.			
61)	cis-1,3-Dichloropropene	0.000		0	N.D.			
64)	Toluene	7.703	92	66	N.D.			
65)	4-Methyl-2-pentanone	0.000		0	N.D.			
66)	Tetrachloroethene	0.000		0	N.D.			
68)	trans-1,3-Dichloropropene	0.000		0	N.D.			
71)	1,1,2-Trichloroethane	0.000		0	N.D.			
72)	Chlorodibromomethane	0.000		0	N.D.			
74)	1,2-Dibromoethane	0.000		0	N.D.			
76)	2-Hexanone	0.000		0	N.D.			
77)	Chlorobenzene	0.000		0	N.D.			
78)	Ethylbenzene	9.491	91	412	N.D.			
80)	p/m Xylene	0.000		0	N.D.			
81)	o Xylene	0.000		0	N.D.			
82)	Styrene	0.000		0	N.D.			
84)	Bromoform	0.000		0	N.D.			
86)	Isopropylbenzene	0.000		0	N.D.			
91)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.			
104)	1,3-Dichlorobenzene	0.000		0	N.D.			
105)	1,4-Dichlorobenzene	0.000		0	N.D.			
108)	1,2-Dichlorobenzene	0.000		0	N.D.			
110)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.			
113)	1,2,4-Trichlorobenzene	0.000		0	N.D.			
115)	1,2,3-Trichlorobenzene	0.000		0	N.D.			

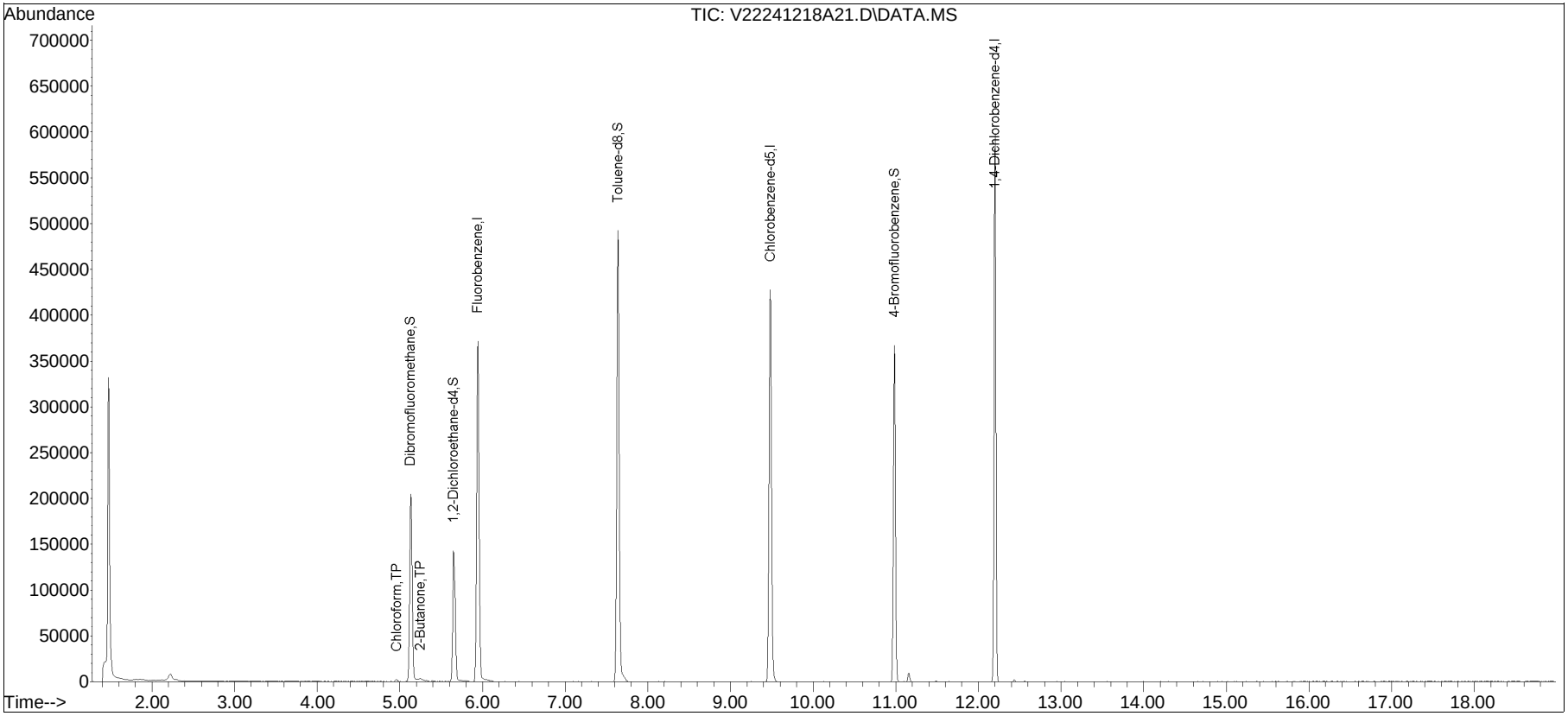
(#) = qualifier out of range (m) = manual integration (+) = signals summed

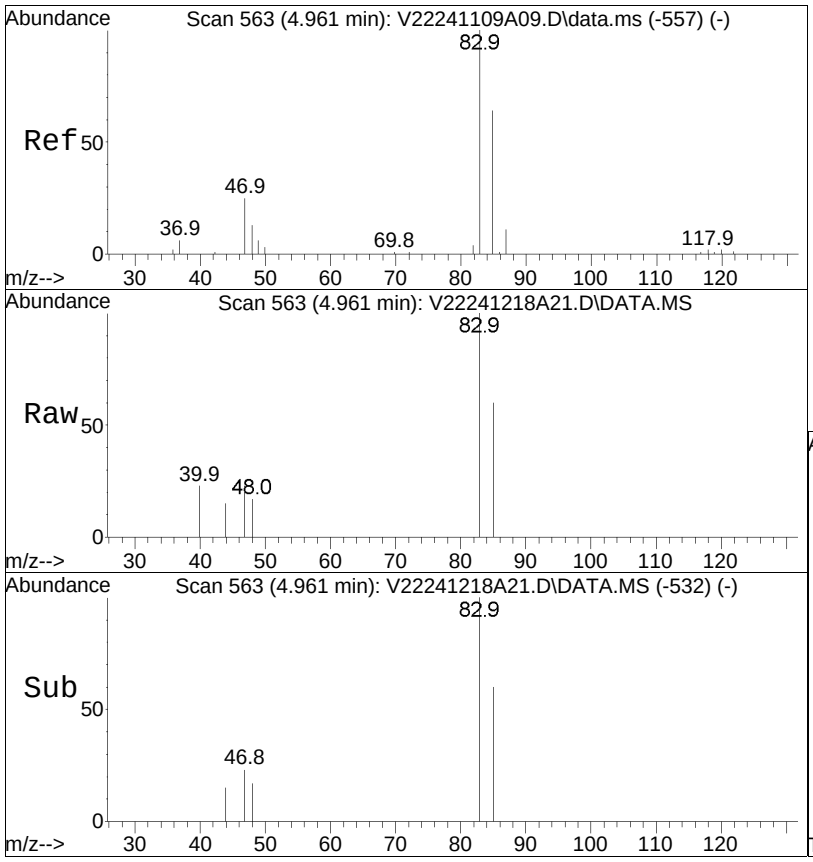
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A21.D
Acq On : 18 Dec 2024 03:40 pm
Operator : VOA122:MKS
Sample : L2473162-04,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 18 16:53:19 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS1218A02.D•

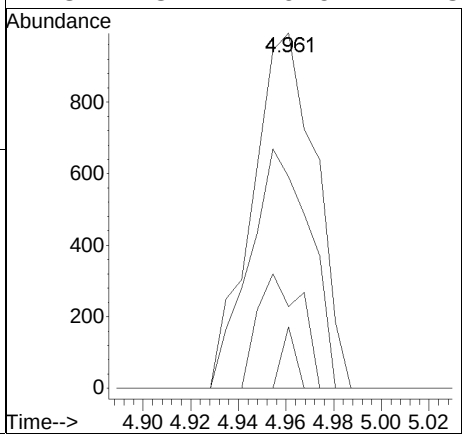


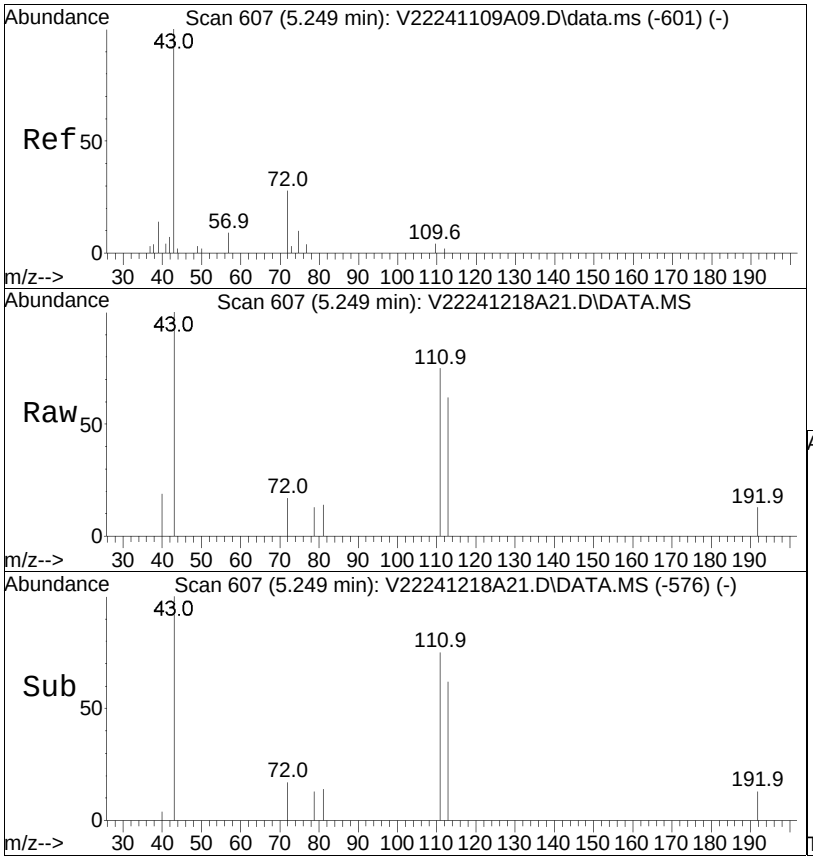


#34
Chloroform
Concen: 0.18 ug/L
RT: 4.961 min Scan# 563
Delta R.T. -0.000 min
Lab File: V22241218A21.D
Acq: 18 Dec 2024 03:40 pm

Tgt Ion: 83 Resp: 1833

Ion	Ratio	Lower	Upper
83	100		
85	64.3	42.4	88.2
47	22.3	14.0	29.0
48	3.7	6.9	14.3#

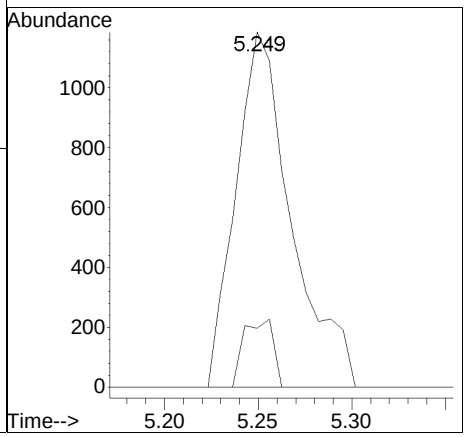




#41
2-Butanone
Concen: 2.00 ug/L
RT: 5.249 min Scan# 607
Delta R.T. -0.000 min
Lab File: V22241218A21.D
Acq: 18 Dec 2024 03:40 pm

Tgt Ion: 43 Resp: 2452

Ion	Ratio	Lower	Upper
43	100		
72	10.1	45.8	68.8#



Manual Integration Report

Data Path	: K:\VOA122\2024\241218A\	QMethod	: V122_241109A_8260.m
Data File	: V22241218A21.D	Operator	: VOA122:MKS
Date Inj'd	: 12/18/2024 3:40 pm	Instrument	: VOA 122
Sample	: L2473162-04,31,10,10,,A	Quant Date	: 12/18/2024 4:45 pm

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A22.D
Acq On : 18 Dec 2024 04:05 pm
Operator : VOA122:MKS
Sample : L2473162-05,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 18 16:53:36 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.944	96	347603	10.000	ug/L	0.00
Standard Area 1 = 488520			Recovery = 71.15%			
62) Chlorobenzene-d5	9.484	117	292931	10.000	ug/L	0.00
Standard Area 1 = 400401			Recovery = 73.16%			
83) 1,4-Dichlorobenzene-d4	12.202	152	152286	10.000	ug/L	0.00
Standard Area 1 = 207680			Recovery = 73.33%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.132	113	131497	11.084	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.84%			
46) 1,2-Dichloroethane-d4	5.649	65	78569	10.717	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.17%			
63) Toluene-d8	7.640	98	362119	9.805	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.05%			
87) 4-Bromofluorobenzene	10.985	95	122225	9.831	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.31%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.176	94	67	N.D.		
6) Chloroethane	0.000		0	N.D.	d	
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
32) Bromochloromethane	0.000		0	N.D.		
33) Cyclohexane	0.000		0	N.D.		
34) Chloroform	0.000		0	N.D.		
36) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A22.D
Acq On : 18 Dec 2024 04:05 pm
Operator : VOA122:MKS
Sample : L2473162-05,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 18 16:53:36 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39)	1,1,1-Trichloroethane	0.000		0	N.D.			
41)	2-Butanone	5.243	43	2364	1.988	ug/L	#	39
44)	Benzene	0.000		0	N.D.			
47)	1,2-Dichloroethane	0.000		0	N.D.			
50)	Methyl cyclohexane	0.000		0	N.D.			
51)	Trichloroethene	0.000		0	N.D.			
54)	1,2-Dichloropropane	0.000		0	N.D.			
57)	Bromodichloromethane	0.000		0	N.D.			
61)	cis-1,3-Dichloropropene	0.000		0	N.D.			
64)	Toluene	0.000		0	N.D.			
65)	4-Methyl-2-pentanone	0.000		0	N.D.			
66)	Tetrachloroethene	0.000		0	N.D.			
68)	trans-1,3-Dichloropropene	0.000		0	N.D.			
71)	1,1,2-Trichloroethane	0.000		0	N.D.			
72)	Chlorodibromomethane	0.000		0	N.D.			
74)	1,2-Dibromoethane	0.000		0	N.D.			
76)	2-Hexanone	0.000		0	N.D.			
77)	Chlorobenzene	0.000		0	N.D.			
78)	Ethylbenzene	9.477	91	354	N.D.			
80)	p/m Xylene	0.000		0	N.D.			
81)	o Xylene	0.000		0	N.D.			
82)	Styrene	0.000		0	N.D.			
84)	Bromoform	0.000		0	N.D.			
86)	Isopropylbenzene	0.000		0	N.D.			
91)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.			
104)	1,3-Dichlorobenzene	0.000		0	N.D.			
105)	1,4-Dichlorobenzene	0.000		0	N.D.			
108)	1,2-Dichlorobenzene	0.000		0	N.D.			
110)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.			
113)	1,2,4-Trichlorobenzene	0.000		0	N.D.			
115)	1,2,3-Trichlorobenzene	0.000		0	N.D.			

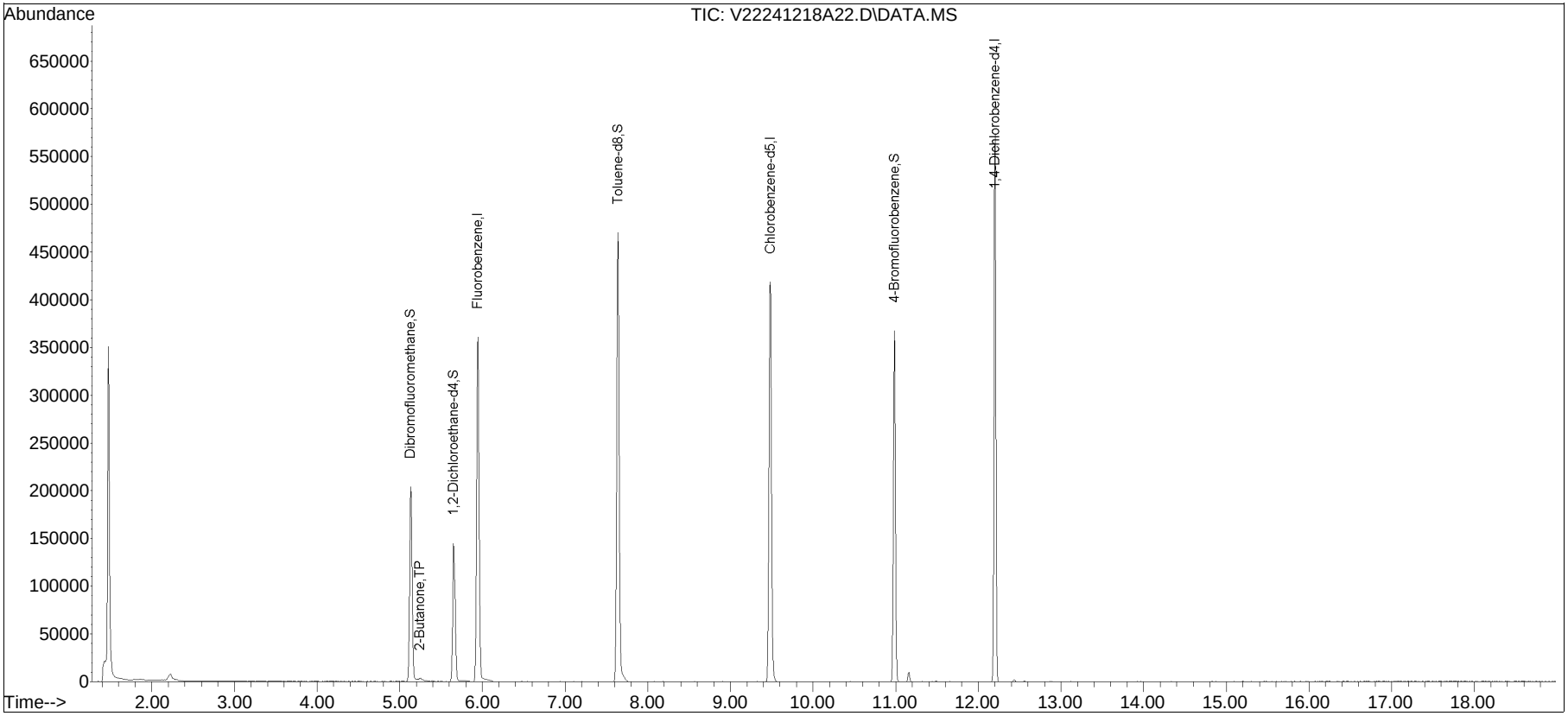
(#) = qualifier out of range (m) = manual integration (+) = signals summed

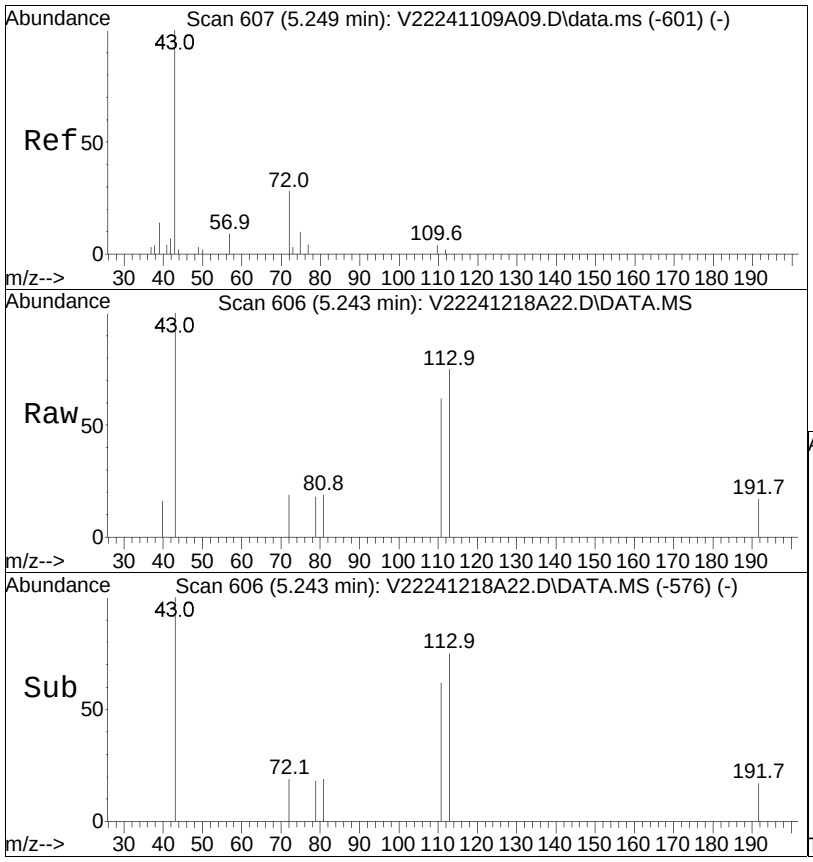
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A22.D
Acq On : 18 Dec 2024 04:05 pm
Operator : VOA122:MKS
Sample : L2473162-05,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 18 16:53:36 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS1218A02.D•

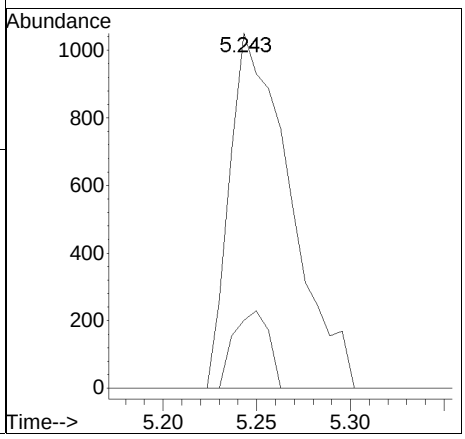




#41
2-Butanone
Concen: 1.99 ug/L
RT: 5.243 min Scan# 606
Delta R.T. -0.006 min
Lab File: V22241218A22.D
Acq: 18 Dec 2024 04:05 pm

Tgt Ion: 43 Resp: 2364

Ion	Ratio	Lower	Upper
43	100		
72	12.6	45.8	68.8#



Manual Integration Report

Data Path	: K:\VOA122\2024\241218A\	QMethod	: V122_241109A_8260.m
Data File	: V22241218A22.D	Operator	: VOA122:MKS
Date Inj'd	: 12/18/2024 4:05 pm	Instrument	: VOA 122
Sample	: L2473162-05,31,10,10,,A	Quant Date	: 12/18/2024 4:46 pm

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A23.D
Acq On : 18 Dec 2024 04:30 pm
Operator : VOA122:MJV
Sample : L2473162-06,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 19 07:23:31 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.944	96	333821	10.000	ug/L	0.00
Standard Area 1 = 488520			Recovery = 68.33%			
62) Chlorobenzene-d5	9.484	117	283381	10.000	ug/L	0.00
Standard Area 1 = 400401			Recovery = 70.77%			
83) 1,4-Dichlorobenzene-d4	12.202	152	149359	10.000	ug/L	0.00
Standard Area 1 = 207680			Recovery = 71.92%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.131	113	124744	10.948	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.48%			
46) 1,2-Dichloroethane-d4	5.649	65	74885	10.636	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.36%			
63) Toluene-d8	7.640	98	347949	9.739	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.39%			
87) 4-Bromofluorobenzene	10.984	95	116372	9.544	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.44%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	2.208	64	293	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
32) Bromochloromethane	0.000		0	N.D.		
33) Cyclohexane	0.000		0	N.D.		
34) Chloroform	0.000		0	N.D.		
36) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A23.D
Acq On : 18 Dec 2024 04:30 pm
Operator : VOA122:MJV
Sample : L2473162-06,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 19 07:23:31 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39)	1,1,1-Trichloroethane	0.000		0	N.D.			
41)	2-Butanone	5.256	43	2215	1.940	ug/L	#	50
44)	Benzene	0.000		0	N.D.			
47)	1,2-Dichloroethane	0.000		0	N.D.			
50)	Methyl cyclohexane	0.000		0	N.D.			
51)	Trichloroethene	0.000		0	N.D.	d		
54)	1,2-Dichloropropane	0.000		0	N.D.			
57)	Bromodichloromethane	0.000		0	N.D.			
61)	cis-1,3-Dichloropropene	0.000		0	N.D.			
64)	Toluene	0.000		0	N.D.			
65)	4-Methyl-2-pentanone	0.000		0	N.D.			
66)	Tetrachloroethene	0.000		0	N.D.			
68)	trans-1,3-Dichloropropene	0.000		0	N.D.			
71)	1,1,2-Trichloroethane	0.000		0	N.D.			
72)	Chlorodibromomethane	0.000		0	N.D.			
74)	1,2-Dibromoethane	0.000		0	N.D.			
76)	2-Hexanone	0.000		0	N.D.			
77)	Chlorobenzene	0.000		0	N.D.			
78)	Ethylbenzene	9.484	91	332	N.D.			
80)	p/m Xylene	0.000		0	N.D.			
81)	o Xylene	0.000		0	N.D.			
82)	Styrene	0.000		0	N.D.			
84)	Bromoform	0.000		0	N.D.			
86)	Isopropylbenzene	0.000		0	N.D.			
91)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.			
104)	1,3-Dichlorobenzene	0.000		0	N.D.			
105)	1,4-Dichlorobenzene	0.000		0	N.D.			
108)	1,2-Dichlorobenzene	0.000		0	N.D.			
110)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.			
113)	1,2,4-Trichlorobenzene	0.000		0	N.D.			
115)	1,2,3-Trichlorobenzene	0.000		0	N.D.			

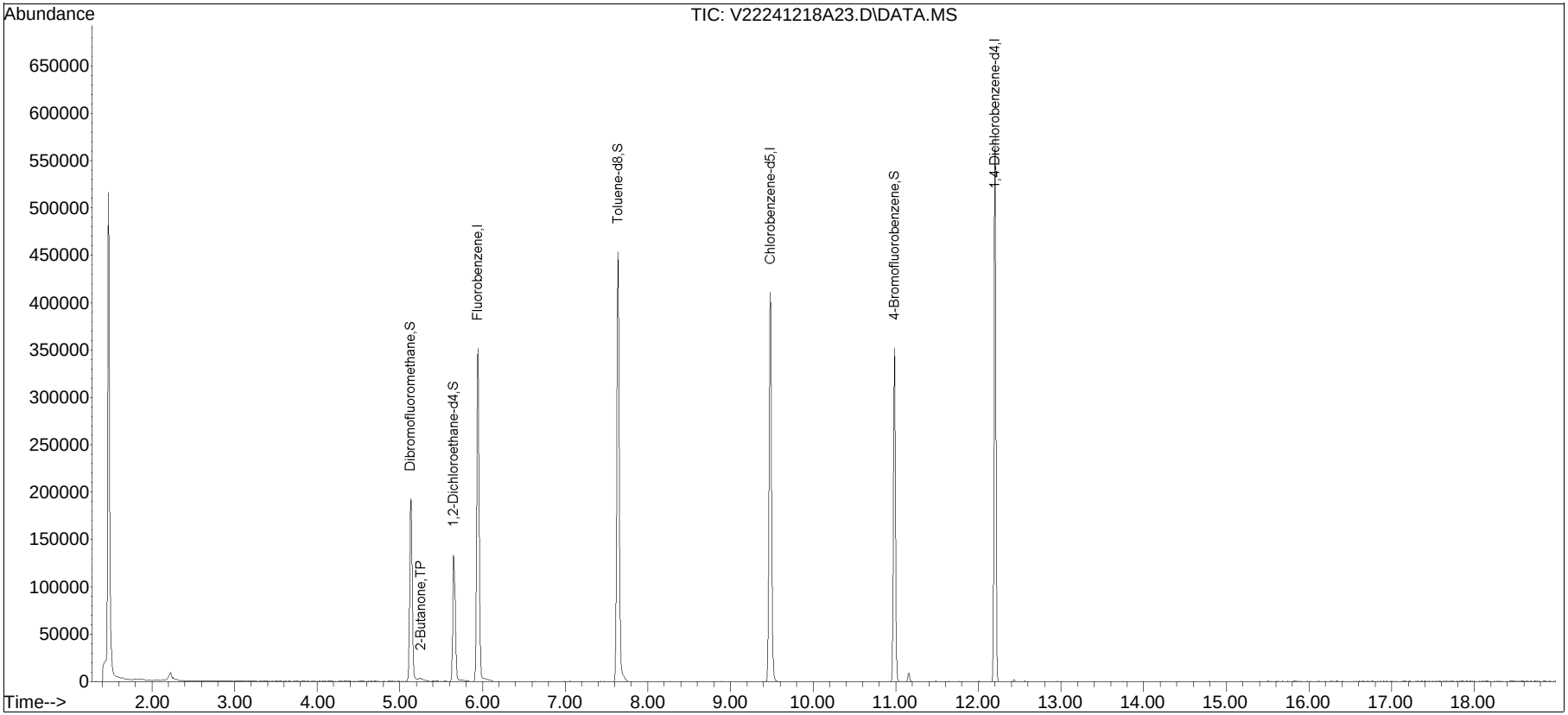
(#) = qualifier out of range (m) = manual integration (+) = signals summed

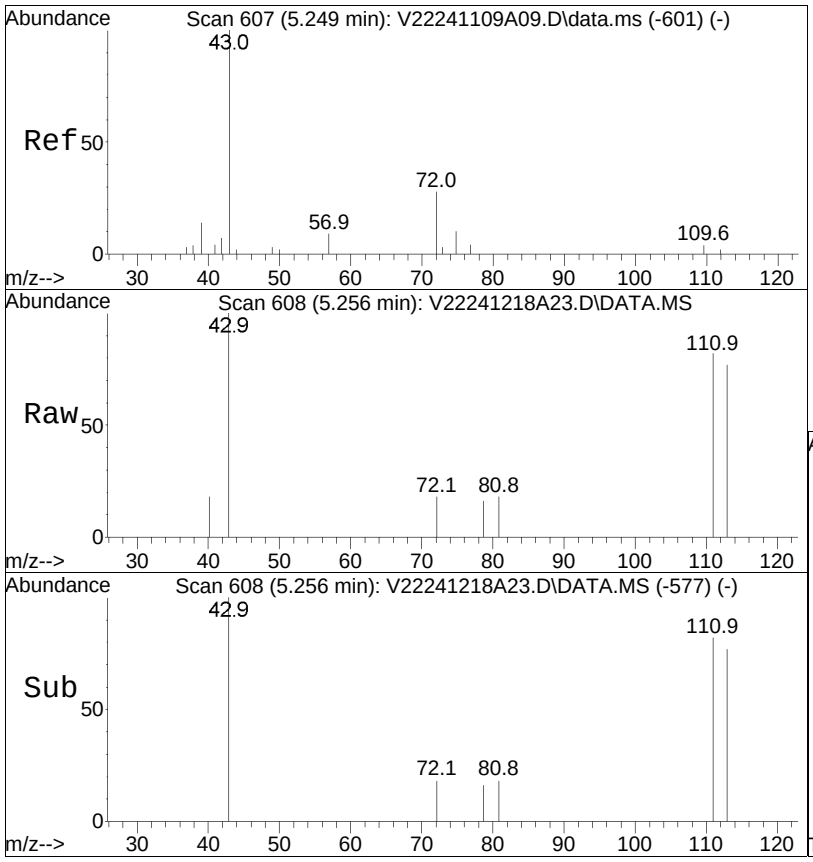
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A23.D
Acq On : 18 Dec 2024 04:30 pm
Operator : VOA122:MJV
Sample : L2473162-06,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 19 07:23:31 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS1218A02.D•

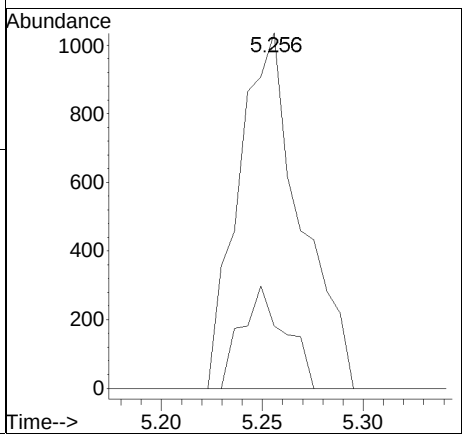




#41
2-Butanone
Concen: 1.94 ug/L
RT: 5.256 min Scan# 608
Delta R.T. 0.006 min
Lab File: V22241218A23.D
Acq: 18 Dec 2024 04:30 pm

Tgt Ion: 43 Resp: 2215

Ion	Ratio	Lower	Upper
43	100		
72	20.3	45.8	68.8#



Manual Integration Report

Data Path	: K:\VOA122\2024\241218A\	QMethod	: V122_241109A_8260.m
Data File	: V22241218A23.D	Operator	: VOA122:MJV
Date Inj'd	: 12/18/2024 4:30 pm	Instrument	: VOA 122
Sample	: L2473162-06,31,10,10,,A	Quant Date	: 12/19/2024 7:10 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A24.D
Acq On : 18 Dec 2024 04:54 pm
Operator : VOA122:MJV
Sample : L2473162-07,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 19 07:23:49 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.944	96	334332	10.000	ug/L	0.00
Standard Area 1 = 488520			Recovery = 68.44%			
62) Chlorobenzene-d5	9.484	117	273556	10.000	ug/L	0.00
Standard Area 1 = 400401			Recovery = 68.32%			
83) 1,4-Dichlorobenzene-d4	12.202	152	147023	10.000	ug/L	0.00
Standard Area 1 = 207680			Recovery = 70.79%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.131	113	124177	10.882	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.82%			
46) 1,2-Dichloroethane-d4	5.649	65	73234	10.386	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.86%			
63) Toluene-d8	7.640	98	341450	9.900	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.00%			
87) 4-Bromofluorobenzene	10.984	95	112111	9.341	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.41%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.	d	
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
21) Methyl tert-butyl ether	3.689	73	66	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
32) Bromochloromethane	0.000		0	N.D.		
33) Cyclohexane	0.000		0	N.D.		
34) Chloroform	0.000		0	N.D.		
36) Carbon tetrachloride	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A24.D
Acq On : 18 Dec 2024 04:54 pm
Operator : VOA122:MJV
Sample : L2473162-07,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 19 07:23:49 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39)	1,1,1-Trichloroethane	0.000		0	N.D.			
41)	2-Butanone	5.249	43	1893	1.655	ug/L	#	31
44)	Benzene	0.000		0	N.D.			
47)	1,2-Dichloroethane	0.000		0	N.D.			
50)	Methyl cyclohexane	0.000		0	N.D.			
51)	Trichloroethene	0.000		0	N.D.	d		
54)	1,2-Dichloropropane	0.000		0	N.D.			
57)	Bromodichloromethane	0.000		0	N.D.			
61)	cis-1,3-Dichloropropene	0.000		0	N.D.			
64)	Toluene	0.000		0	N.D.			
65)	4-Methyl-2-pentanone	0.000		0	N.D.			
66)	Tetrachloroethene	0.000		0	N.D.			
68)	trans-1,3-Dichloropropene	0.000		0	N.D.			
71)	1,1,2-Trichloroethane	0.000		0	N.D.			
72)	Chlorodibromomethane	0.000		0	N.D.			
74)	1,2-Dibromoethane	0.000		0	N.D.			
76)	2-Hexanone	0.000		0	N.D.			
77)	Chlorobenzene	0.000		0	N.D.			
78)	Ethylbenzene	9.477	91	472	N.D.			
80)	p/m Xylene	0.000		0	N.D.			
81)	o Xylene	0.000		0	N.D.			
82)	Styrene	0.000		0	N.D.			
84)	Bromoform	0.000		0	N.D.			
86)	Isopropylbenzene	0.000		0	N.D.			
91)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.			
104)	1,3-Dichlorobenzene	0.000		0	N.D.			
105)	1,4-Dichlorobenzene	0.000		0	N.D.			
108)	1,2-Dichlorobenzene	0.000		0	N.D.			
110)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.			
113)	1,2,4-Trichlorobenzene	0.000		0	N.D.			
115)	1,2,3-Trichlorobenzene	0.000		0	N.D.			

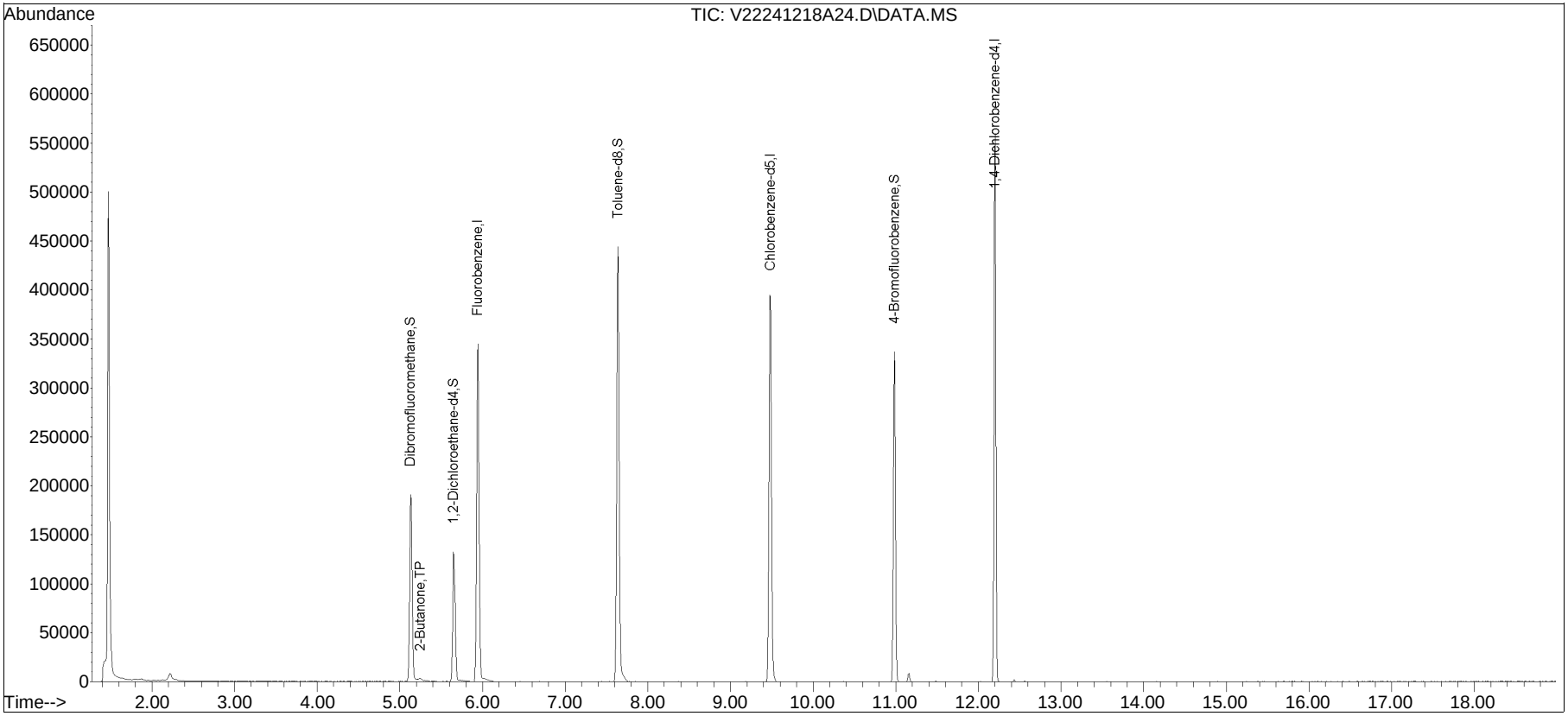
(#) = qualifier out of range (m) = manual integration (+) = signals summed

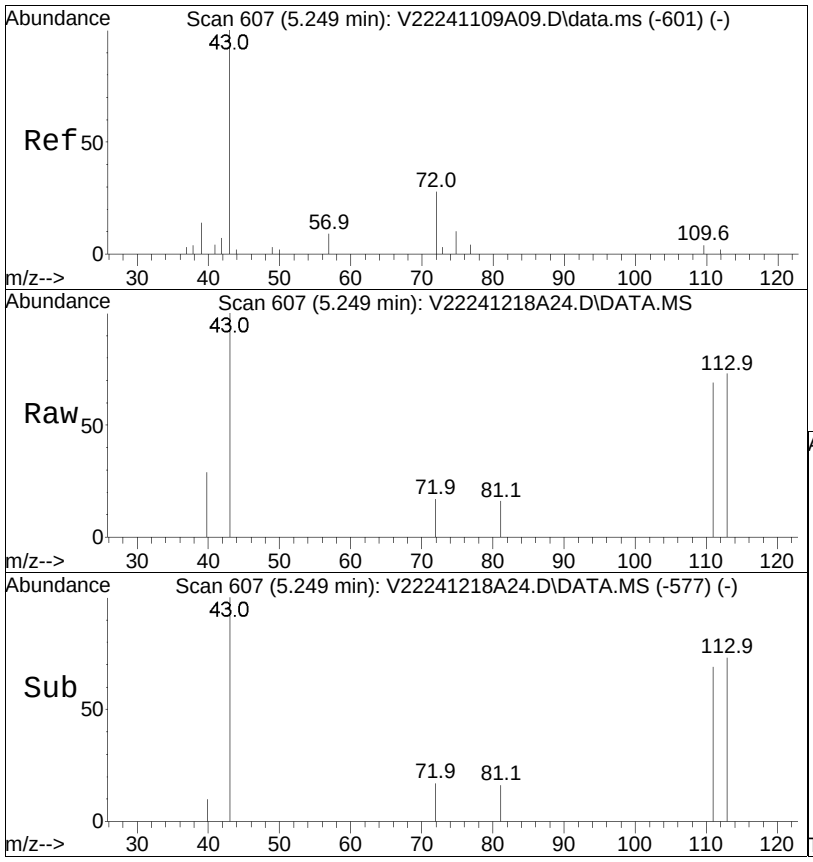
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A24.D
Acq On : 18 Dec 2024 04:54 pm
Operator : VOA122:MJV
Sample : L2473162-07,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 19 07:23:49 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS1218A02.D•

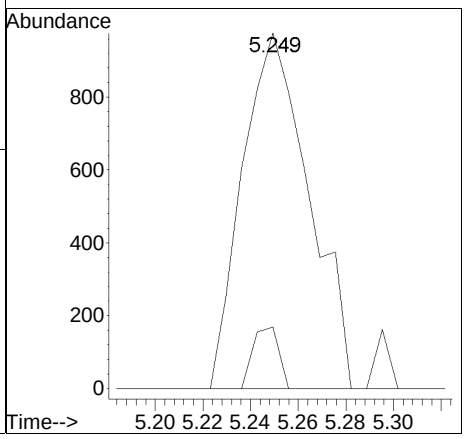




#41
2-Butanone
Concen: 1.66 ug/L
RT: 5.249 min Scan# 607
Delta R.T. -0.000 min
Lab File: V22241218A24.D
Acq: 18 Dec 2024 04:54 pm

Tgt Ion: 43 Resp: 1893

Ion	Ratio	Lower	Upper
43	100		
72	6.7	45.8	68.8#



Manual Integration Report

Data Path	: K:\VOA122\2024\241218A\	QMethod	: V122_241109A_8260.m
Data File	: V22241218A24.D	Operator	: VOA122:MJV
Date Inj'd	: 12/18/2024 4:54 pm	Instrument	: VOA 122
Sample	: L2473162-07,31,10,10,,A	Quant Date	: 12/19/2024 7:10 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A25.D
Acq On : 18 Dec 2024 05:19 pm
Operator : VOA122:MJV
Sample : L2473162-08,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 19 07:23:59 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.944	96	332859	10.000	ug/L	0.00
Standard Area 1 = 488520			Recovery = 68.14%			
62) Chlorobenzene-d5	9.484	117	278933	10.000	ug/L	0.00
Standard Area 1 = 400401			Recovery = 69.66%			
83) 1,4-Dichlorobenzene-d4	12.202	152	146346	10.000	ug/L	0.00
Standard Area 1 = 207680			Recovery = 70.47%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.132	113	121559	10.700	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.00%			
46) 1,2-Dichloroethane-d4	5.649	65	73700	10.498	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.98%			
63) Toluene-d8	7.640	98	334312	9.506	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.06%			
87) 4-Bromofluorobenzene	10.985	95	113839	9.528	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.28%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	2.241	64	64	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
32) Bromochloromethane	0.000		0	N.D.		
33) Cyclohexane	0.000		0	N.D.		
34) Chloroform	0.000		0	N.D.		
36) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A25.D
Acq On : 18 Dec 2024 05:19 pm
Operator : VOA122:MJV
Sample : L2473162-08,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 19 07:23:59 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-Trichloroethane	0.000		0	N.D.		
41) 2-Butanone	5.243	43	2018	1.772	ug/L #	36
44) Benzene	0.000		0	N.D.		
47) 1,2-Dichloroethane	0.000		0	N.D.		
50) Methyl cyclohexane	0.000		0	N.D.		
51) Trichloroethene	6.049	95	220	N.D.		
54) 1,2-Dichloropropane	0.000		0	N.D.		
57) Bromodichloromethane	0.000		0	N.D.		
61) cis-1,3-Dichloropropene	0.000		0	N.D.		
64) Toluene	0.000		0	N.D.		
65) 4-Methyl-2-pentanone	0.000		0	N.D.		
66) Tetrachloroethene	0.000		0	N.D.		
68) trans-1,3-Dichloropropene	0.000		0	N.D.		
71) 1,1,2-Trichloroethane	0.000		0	N.D.		
72) Chlorodibromomethane	0.000		0	N.D.		
74) 1,2-Dibromoethane	0.000		0	N.D.		
76) 2-Hexanone	0.000		0	N.D.		
77) Chlorobenzene	0.000		0	N.D.		
78) Ethylbenzene	9.477	91	462	N.D.		
80) p/m Xylene	0.000		0	N.D.		
81) o Xylene	0.000		0	N.D.		
82) Styrene	0.000		0	N.D.		
84) Bromoform	0.000		0	N.D.		
86) Isopropylbenzene	0.000		0	N.D.		
91) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
104) 1,3-Dichlorobenzene	0.000		0	N.D.		
105) 1,4-Dichlorobenzene	0.000		0	N.D.		
108) 1,2-Dichlorobenzene	0.000		0	N.D.		
110) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
113) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
115) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

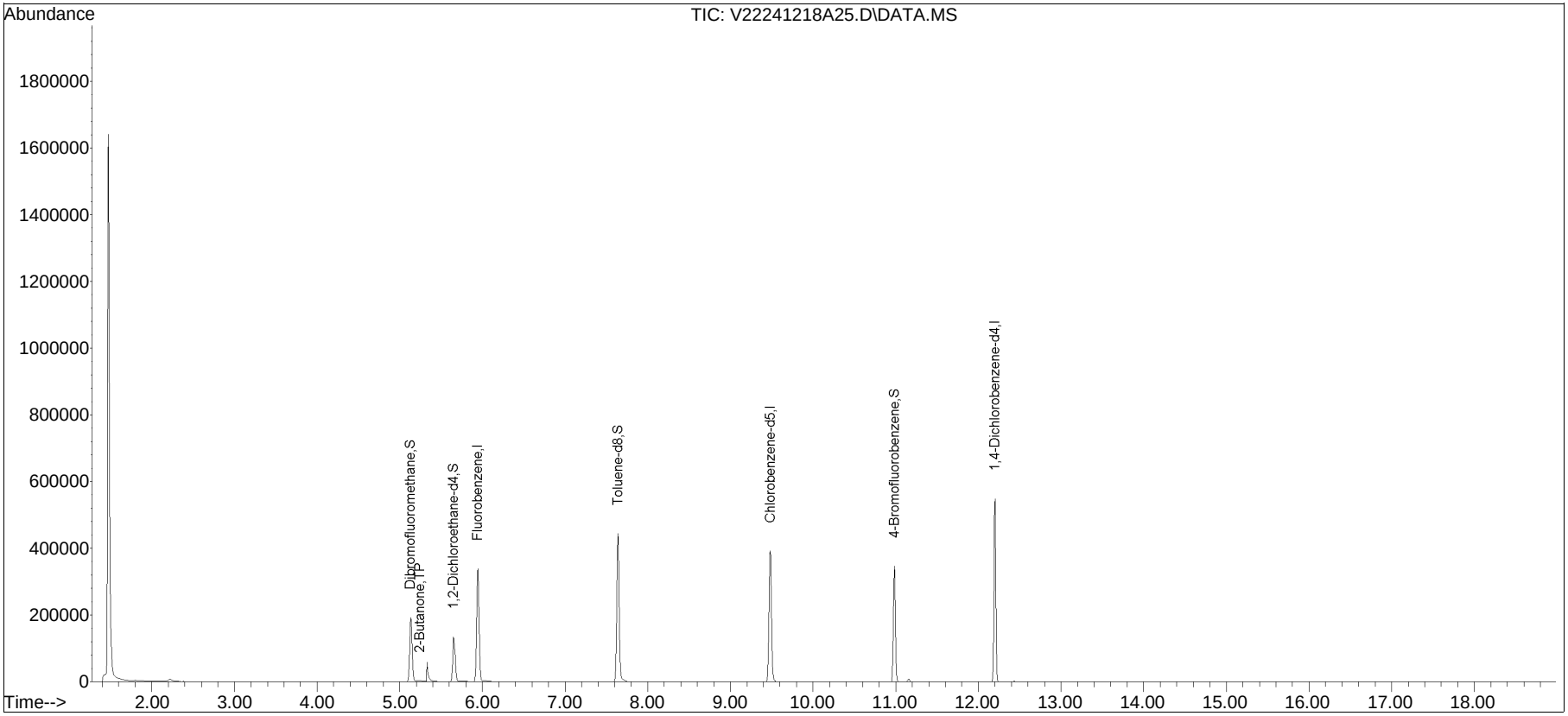
(#) = qualifier out of range (m) = manual integration (+) = signals summed

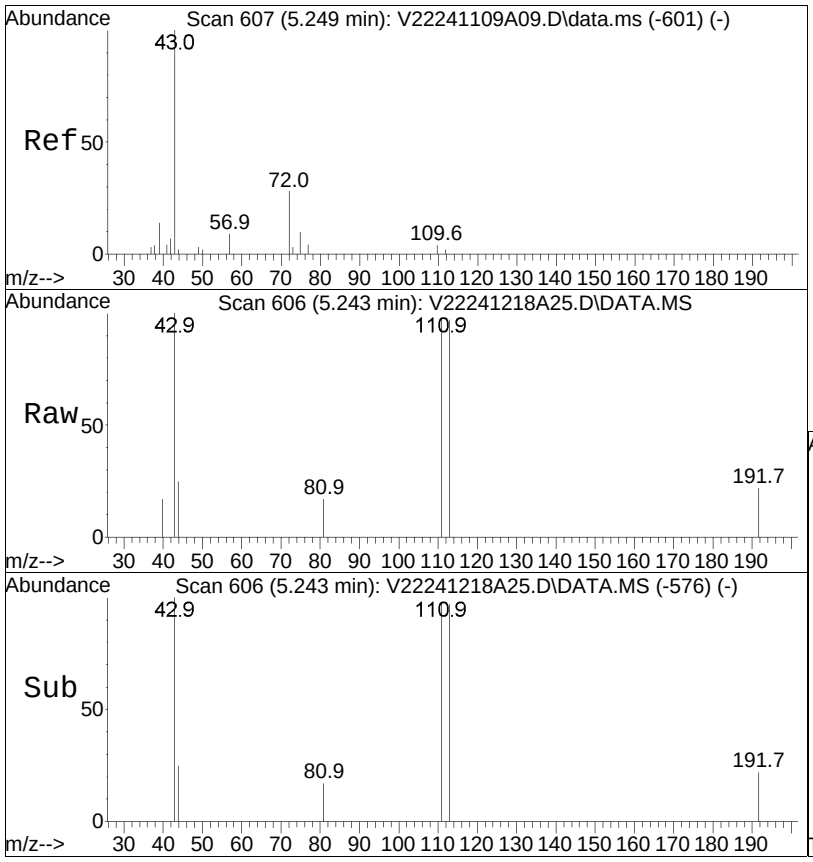
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A25.D
Acq On : 18 Dec 2024 05:19 pm
Operator : VOA122:MJV
Sample : L2473162-08,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 19 07:23:59 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS1218A02.D•

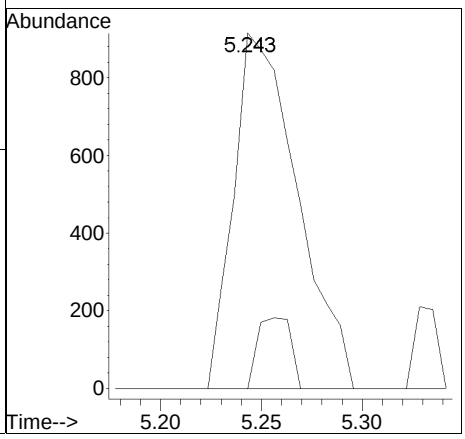




#41
2-Butanone
Concen: 1.77 ug/L
RT: 5.243 min Scan# 606
Delta R.T. -0.006 min
Lab File: V22241218A25.D
Acq: 18 Dec 2024 05:19 pm

Tgt Ion: 43 Resp: 2018

Ion	Ratio	Lower	Upper
43	100		
72	10.4	45.8	68.8#



Manual Integration Report

Data Path	: K:\VOA122\2024\241218A\	QMethod	: V122_241109A_8260.m
Data File	: V22241218A25.D	Operator	: VOA122:MJV
Date Inj'd	: 12/18/2024 5:19 pm	Instrument	: VOA 122
Sample	: L2473162-08,31,10,10,,A	Quant Date	: 12/19/2024 7:10 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A26.D
Acq On : 18 Dec 2024 05:43 pm
Operator : VOA122:MJV
Sample : L2473162-09,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 19 07:24:26 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.944	96	311188	10.000	ug/L	0.00
Standard Area 1 = 488520			Recovery = 63.70%			
62) Chlorobenzene-d5	9.484	117	269829	10.000	ug/L	0.00
Standard Area 1 = 400401			Recovery = 67.39%			
83) 1,4-Dichlorobenzene-d4	12.202	152	142465	10.000	ug/L	0.00
Standard Area 1 = 207680			Recovery = 68.60%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.132	113	117736	11.085	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.85%			
46) 1,2-Dichloroethane-d4	5.649	65	68560	10.446	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.46%			
63) Toluene-d8	7.640	98	329988	9.700	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.00%			
87) 4-Bromofluorobenzene	10.985	95	107864	9.274	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.74%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	2.222	64	330	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.454	84	455	0.087	ug/L #	81
17) Acetone	0.000		0	N.D. d		
18) trans-1,2-Dichloroethene	3.604	96	9646	1.984	ug/L	98
19) Methyl acetate	3.696	43	65	N.D.		
21) Methyl tert-butyl ether	3.709	73	475	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	4.699	96	59	N.D.		
32) Bromochloromethane	0.000		0	N.D.		
33) Cyclohexane	0.000		0	N.D.		
34) Chloroform	4.961	83	2059	0.234	ug/L #	86
36) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A26.D
Acq On : 18 Dec 2024 05:43 pm
Operator : VOA122:MJV
Sample : L2473162-09,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 19 07:24:26 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-Trichloroethane	0.000		0	N.D.		
41) 2-Butanone	5.250	43	1819	1.709	ug/L #	30
44) Benzene	0.000		0	N.D.		
47) 1,2-Dichloroethane	0.000		0	N.D.		
50) Methyl cyclohexane	0.000		0	N.D.		
51) Trichloroethene	6.036	95	277	N.D.		
54) 1,2-Dichloropropane	0.000		0	N.D.		
57) Bromodichloromethane	0.000		0	N.D.		
61) cis-1,3-Dichloropropene	0.000		0	N.D.		
64) Toluene	7.696	92	98	N.D.		
65) 4-Methyl-2-pentanone	0.000		0	N.D.		
66) Tetrachloroethene	0.000		0	N.D.		
68) trans-1,3-Dichloropropene	0.000		0	N.D.		
71) 1,1,2-Trichloroethane	0.000		0	N.D.		
72) Chlorodibromomethane	0.000		0	N.D.		
74) 1,2-Dibromoethane	0.000		0	N.D.		
76) 2-Hexanone	0.000		0	N.D.		
77) Chlorobenzene	0.000		0	N.D.		
78) Ethylbenzene	9.491	91	401	N.D.		
80) p/m Xylene	0.000		0	N.D.		
81) o Xylene	0.000		0	N.D.		
82) Styrene	0.000		0	N.D.		
84) Bromoform	0.000		0	N.D.		
86) Isopropylbenzene	0.000		0	N.D.		
91) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
104) 1,3-Dichlorobenzene	0.000		0	N.D.		
105) 1,4-Dichlorobenzene	0.000		0	N.D.		
108) 1,2-Dichlorobenzene	0.000		0	N.D.		
110) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
113) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
115) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

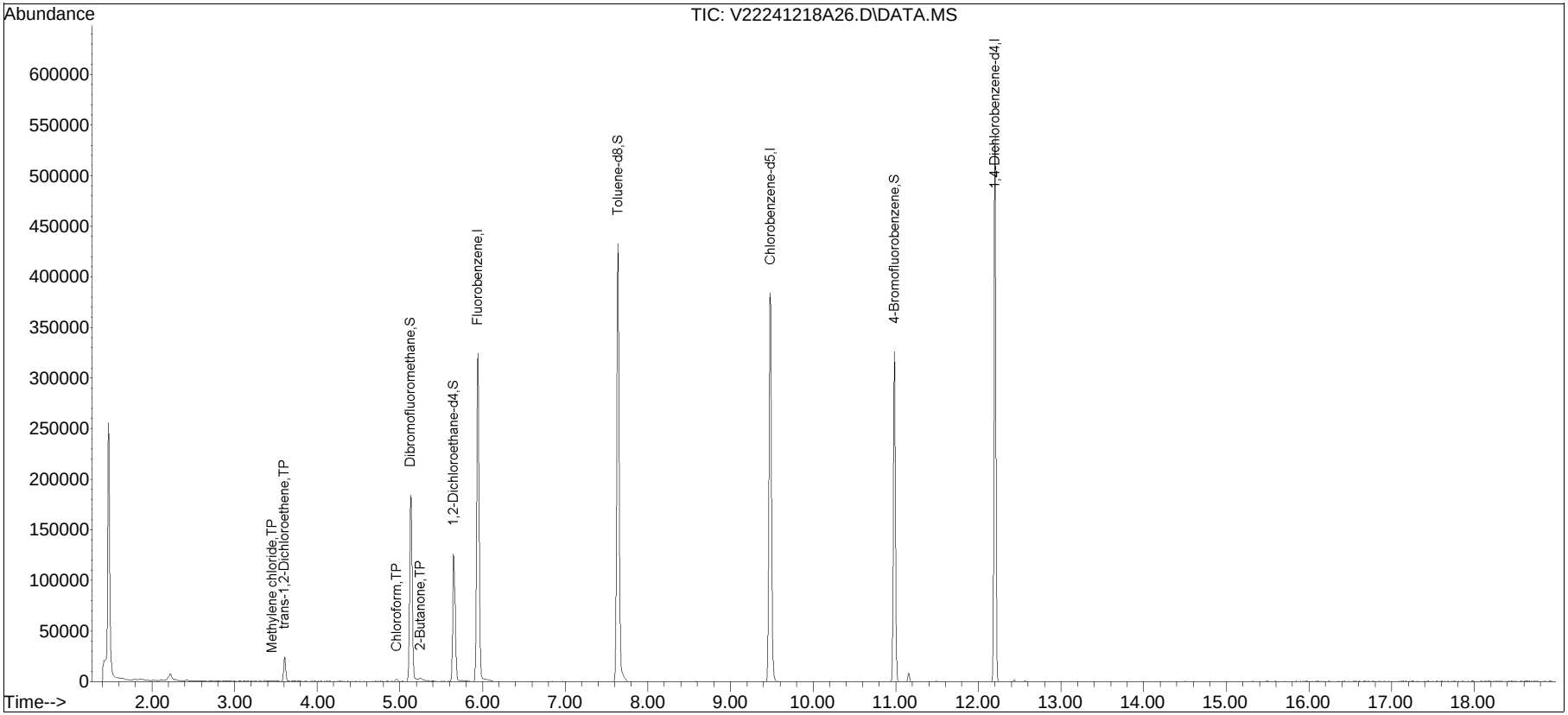
(#) = qualifier out of range (m) = manual integration (+) = signals summed

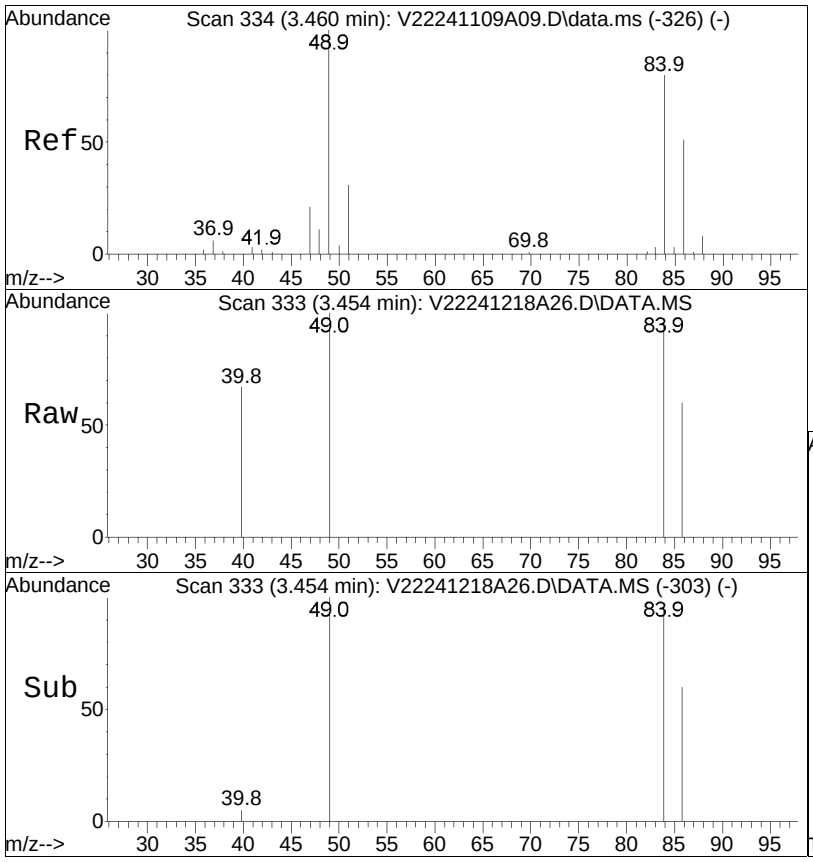
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A26.D
Acq On : 18 Dec 2024 05:43 pm
Operator : VOA122:MJV
Sample : L2473162-09,31,10,10,,A
Misc : WG2010821,ICAL21691
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 19 07:24:26 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS1218A02.D•

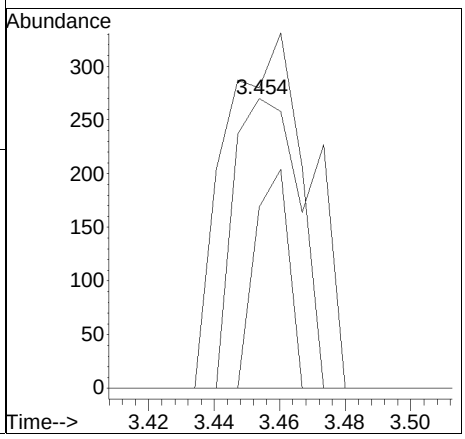


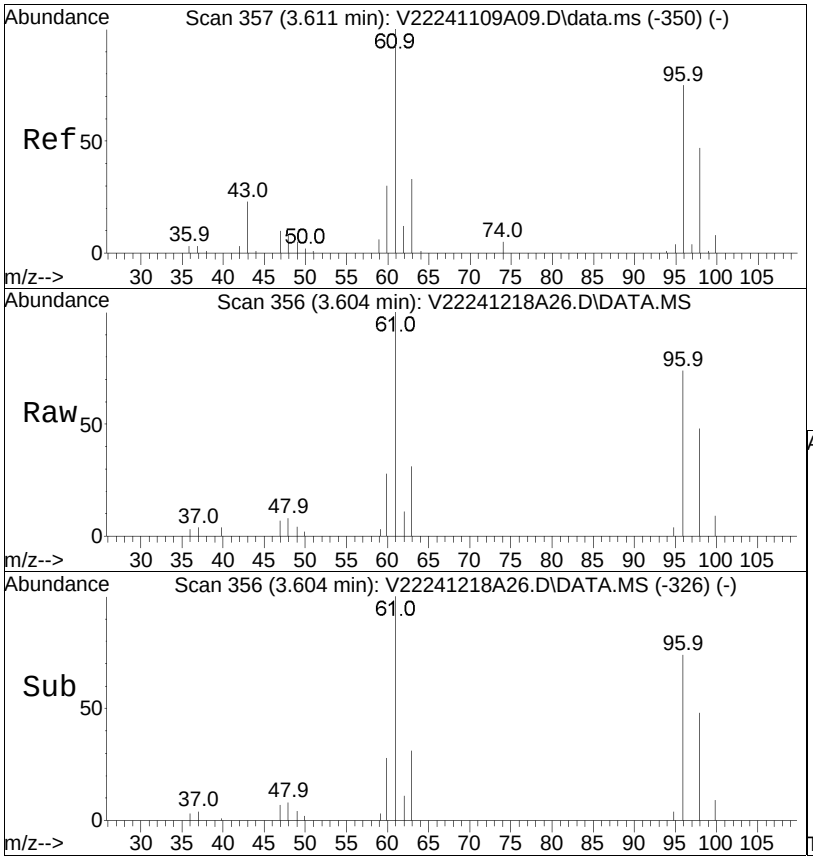


#15
Methylene chloride
Concen: 0.09 ug/L
RT: 3.454 min Scan# 333
Delta R.T. -0.006 min
Lab File: V22241218A26.D
Acq: 18 Dec 2024 05:43 pm

Tgt Ion: 84 Resp: 455

Ion	Ratio	Lower	Upper
84	100		
86	32.3	41.5	86.3#
49	113.0	68.8	143.0

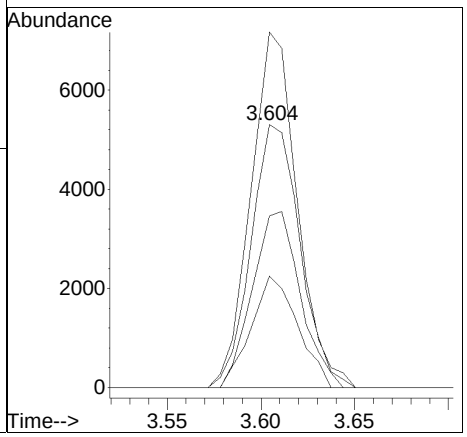


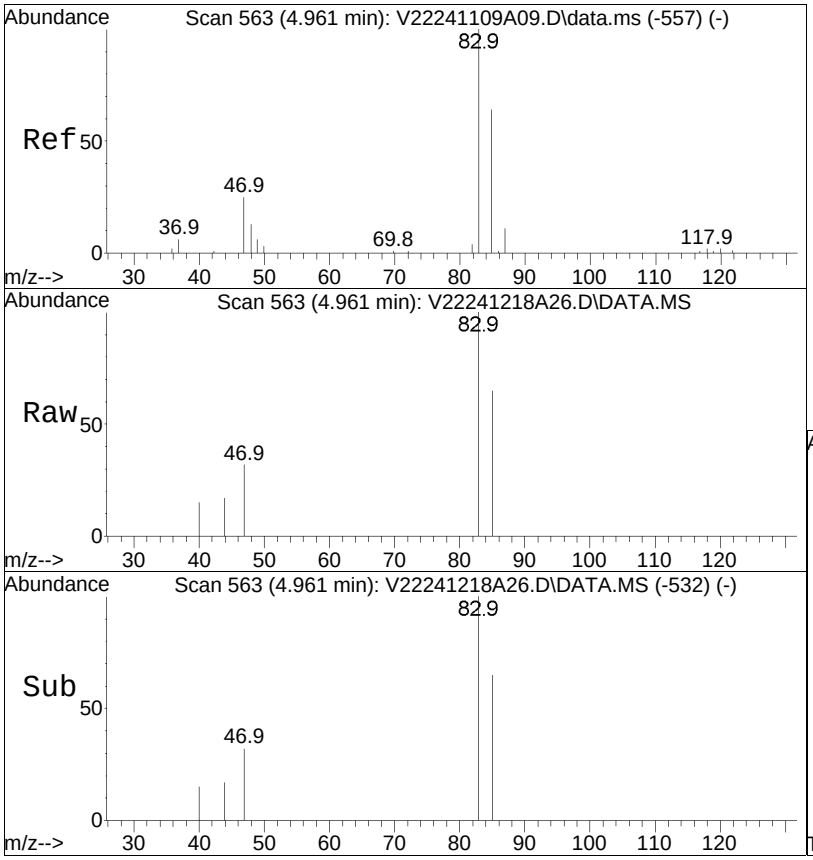


#18
trans-1,2-Dichloroethene
Concen: 1.98 ug/L
RT: 3.604 min Scan# 356
Delta R.T. -0.006 min
Lab File: V22241218A26.D
Acq: 18 Dec 2024 05:43 pm

Tgt Ion: 96 Resp: 9646

Ion	Ratio	Lower	Upper
96	100		
61	128.1	81.6	169.6
98	65.5	41.8	86.8
63	40.2	26.3	54.7

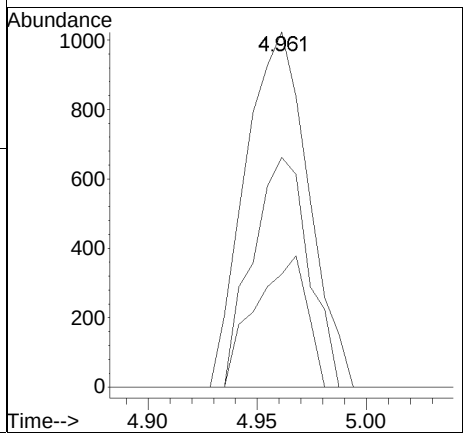


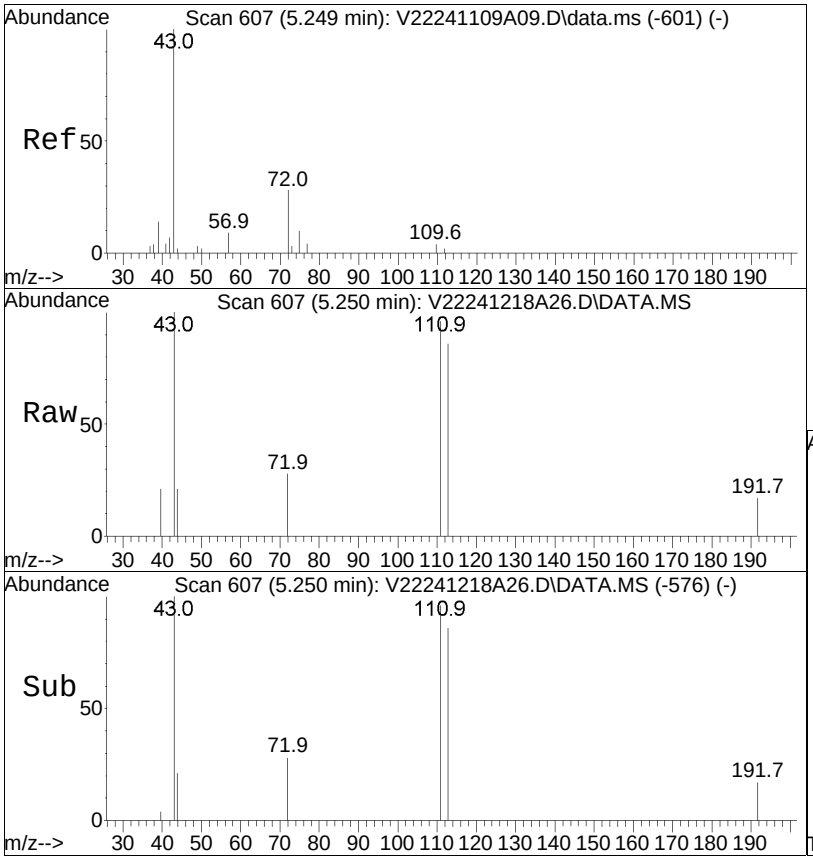


#34
Chloroform
Concen: 0.23 ug/L
RT: 4.961 min Scan# 563
Delta R.T. 0.000 min
Lab File: V22241218A26.D
Acq: 18 Dec 2024 05:43 pm

Tgt Ion: 83 Resp: 2059

Ion	Ratio	Lower	Upper
83	100		
85	57.6	42.4	88.2
47	30.3	14.0	29.0#
48	0.0	6.9	14.3#

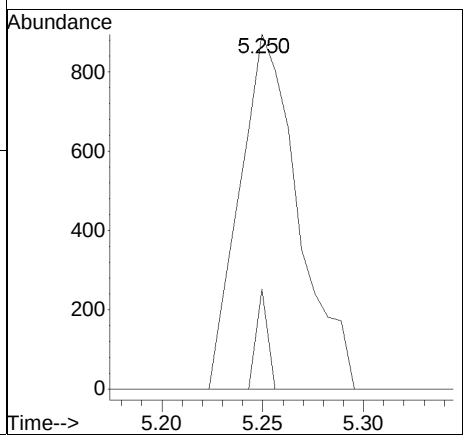




#41
2-Butanone
Concen: 1.71 ug/L
RT: 5.250 min Scan# 607
Delta R.T. 0.000 min
Lab File: V22241218A26.D
Acq: 18 Dec 2024 05:43 pm

Tgt Ion: 43 Resp: 1819

Ion	Ratio	Lower	Upper
43	100		
72	5.4	45.8	68.8#



Manual Integration Report

Data Path	: K:\VOA122\2024\241218A\	QMethod	: V122_241109A_8260.m
Data File	: V22241218A26.D	Operator	: VOA122:MJV
Date Inj'd	: 12/18/2024 5:43 pm	Instrument	: VOA 122
Sample	: L2473162-09,31,10,10,,A	Quant Date	: 12/19/2024 7:10 am

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

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2473162**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: VOA122**	**Ical Ref**	**: ICAL21691**
Calibration dates	**: 11/09/24 07:44 11/09/24 11:49**		

Calibration Files
L11 =V22241109A03.D L1 =V22241109A05.D L2 =V22241109A07.D L3 =V22241109A09.D L4 =V22241109A10.D
L6 =V22241109A11.D L8 =V22241109A12.D L10 =V22241109A13.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------									
2)	TP	Dichlorodifluo		0.165	0.223	0.231	0.220	0.213	0.197	0.197	0.207	10.86
3)	TP	Chloromethane		0.167	0.193	0.189	0.180	0.174	0.168	0.165	0.177	6.31
4)	TP	Vinyl chloride	0.239	0.205	0.260	0.260	0.247	0.235	0.223	0.217	0.236	8.34
5)	TP	Bromomethane		0.192	0.187	0.178	0.167	0.159	0.156	0.153	0.170	9.09
6)	TP	Chloroethane		0.183	0.180	0.173	0.158	0.152	0.145	0.139	0.162	10.83
7)	TP	Trichlorofluor		0.223	0.284	0.297	0.286	0.277	0.261	0.260	0.270	9.13
8)	TP	Ethyl ether		0.064	0.060	0.059	0.059	0.058	0.058	0.058	0.059	4.13
10)	TP	1,1-Dichloroet		0.118	0.150	0.154	0.148	0.144	0.140	0.142	0.142	8.31
11)	TP	Carbon disulfide		0.364	0.450	0.466	0.442	0.441	0.428	0.437	0.433	7.53
12)	TP	Freon-113		0.118	0.154	0.163	0.154	0.155	0.147	0.156	0.150	9.92
13)	TP	Iodomethane		0.192	0.178	0.180	0.180	0.179	0.174	0.170	0.179	3.78
14)	TP	Acrolein			0.010	0.010	0.011	0.011	0.011	0.011	0.011	3.74
15)	TP	Methylene chlo		0.189	0.177	0.172	0.163	0.158	0.156	0.156	0.167	7.59
17)	TP	Acetone			0.029	0.025	0.023	0.022	0.022	0.022	0.024	11.86
18)	TP	trans-1,2-Dich		0.136	0.163	0.165	0.159	0.159	0.155	0.157	0.156	6.19
19)	TP	Methyl acetate		0.076	0.066	0.052	0.054	0.053	0.055	0.054	0.059	15.00
21)	TP	Methyl tert butyl ether		0.246	0.265	0.269	0.276	0.283	0.289	0.290	0.274	5.68
22)	TP	tert-Butyl alc		0.004	0.005	0.005	0.005	0.006	0.006	0.006	0.005#	13.93
24)	TP	Diisopropyl ether		0.365	0.397	0.401	0.405	0.411	0.417	0.420	0.402	4.59
25)	TP	1,1-Dichloroet		0.258	0.293	0.302	0.288	0.283	0.279	0.278	0.283#	4.88
26)	TP	Halothane		0.102	0.120	0.126	0.122	0.127	0.126	0.129	0.122	7.63
27)	TP	Acrylonitrile		0.026	0.031	0.029	0.029	0.029	0.029	0.029	0.029	5.48
28)	TP	Ethyl tert-but		0.303	0.322	0.341	0.358	0.365	0.382	0.388	0.351	8.85
29)	TP	Vinyl acetate		0.209	0.229	0.237	0.249	0.261	0.266	0.265	0.245	8.73
30)	TP	cis-1,2-Dichlo		0.165	0.179	0.182	0.175	0.171	0.169	0.170	0.173#	3.54
31)	TP	2,2-Dichloropr		0.179	0.212	0.211	0.214	0.218	0.214	0.215	0.209	6.37
32)	TP	Bromochloromet		0.090	0.088	0.090	0.088	0.085	0.084	0.084	0.087#	2.93
33)	TP	Cyclohexane		0.216	0.276	0.280	0.281	0.282	0.270	0.282	0.269	8.93
34)	TP	Chloroform		0.275	0.299	0.294	0.281	0.278	0.276	0.278	0.283#	3.40
35)	TP	Ethyl acetate			0.077	0.074	0.080	0.081	0.083	0.083	0.080	4.29
36)	TP	Carbon tetrachloride	0.205	0.176	0.228	0.241	0.241	0.247	0.242	0.250	0.229	11.22
37)	TP	Tetrahydrofuran		0.017	0.024	0.021	0.021	0.021	0.022	0.022	0.021	10.43
38)	S	Dibromofluoromethane	0.340	0.352	0.349	0.349	0.339	0.331	0.332	0.339	0.341	2.31
39)	TP	1,1,1-Trichlor		0.217	0.258	0.270	0.269	0.269	0.261	0.260	0.258	7.32
41)	TP	2-Butanone			0.039	0.033	0.032	0.034	0.034	0.034	0.034	6.91

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2473162**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: VOA122**	**Ical Ref**	**: ICAL21691**
Calibration dates	**: 11/09/24 07:44 11/09/24 11:49**		

Calibration Files
L11 =V22241109A03.D L1 =V22241109A05.D L2 =V22241109A07.D L3 =V22241109A09.D L4 =V22241109A10.D
L6 =V22241109A11.D L8 =V22241109A12.D L10 =V22241109A13.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
42) TP	1,1-Dichloropr		0.163	0.209	0.215	0.219	0.220	0.214	0.219	0.208	9.81
44) TP	Benzene	0.552	0.505	0.592	0.666	0.658	0.658	0.648	0.643	0.615	9.65
45) TP	Tertiary-Amyl Methyl Ether		0.198	0.217	0.227	0.241	0.246	0.249	0.252	0.233	8.52
46) S	1,2-Dichloroethane-d4	0.210	0.205	0.213	0.211	0.207	0.210	0.212	0.219	0.211	1.91
47) T	1,2-Dichloroet		0.142	0.154	0.157	0.153	0.148	0.147	0.146	0.149	3.43
50) TP	Methyl cyclohe		0.164	0.217	0.229	0.236	0.243	0.236	0.253	0.225	12.95
51) TP	Trichloroethene	0.147	0.130	0.134	0.140	0.143	0.148	0.148	0.155	0.143#	5.63
53) TP	Dibromomethane		0.066	0.073	0.080	0.080	0.078	0.078	0.078	0.076	6.46
54) TP	1,2-Dichloropr		0.103	0.120	0.129	0.129	0.129	0.128	0.129	0.124#	7.85
56) TP	2-Chloroethyl		0.052	0.054	0.059	0.060	0.061	0.061	0.061	0.058	6.46
57) TP	Bromodichlorom		0.142	0.161	0.176	0.179	0.181	0.181	0.182	0.172#	8.69
60) TP	1,4-Dioxane		0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	10.75
61) TP	cis-1,3-Dichloropropene	0.135	0.135	0.163	0.188	0.200	0.202	0.202	0.204	0.179#	16.78
62) I	Chlorobenzene-d5	----------ISTD----------									
63) S	Toluene-d8	1.276	1.272	1.274	1.273	1.258	1.251	1.253	1.230	1.261	1.27
64) TP	Toluene		0.371	0.421	0.428	0.422	0.426	0.421	0.415	0.415	4.80
65) TP	4-Methyl-2-pen			0.023	0.027	0.029	0.030	0.031	0.030	0.029#	10.68
66) TP	Tetrachloroethene		0.148	0.184	0.196	0.197	0.202	0.201	0.203	0.190	10.45
68) TP	trans-1,3-Dichloropropene	0.149	0.151	0.168	0.193	0.208	0.215	0.218	0.213	0.189#	15.38
70) TP	Ethyl methacry		0.087	0.100	0.124	0.131	0.131	0.134	0.129	0.119	15.56
71) TP	1,1,2-Trichlor		0.079	0.096	0.099	0.100	0.101	0.103	0.100	0.097#	8.23
72) TP	Chlorodibromom		0.113	0.133	0.153	0.164	0.183	0.186	0.183	0.159#	17.69
73) TP	1,3-Dichloropr		0.175	0.202	0.204	0.206	0.205	0.207	0.197	0.199	5.61
74) TP	1,2-Dibromoethane		0.101	0.113	0.121	0.125	0.124	0.127	0.122	0.119#	7.67
76) TP	2-Hexanone		0.041	0.042	0.046	0.048	0.049	0.050	0.048	0.046	7.52
77) TP	Chlorobenzene		0.442	0.487	0.495	0.485	0.487	0.483	0.474	0.479	3.68
78) TP	Ethylbenzene		0.721	0.846	0.858	0.852	0.853	0.837	0.808	0.825	5.91
79) TP	1,1,1,2-Tetrac		0.127	0.142	0.163	0.170	0.179	0.179	0.177	0.162	12.53
80) TP	p/m Xylene		0.288	0.342	0.350	0.348	0.353	0.349	0.351	0.340	6.84
81) TP	o Xylene		0.275	0.324	0.332	0.331	0.337	0.336	0.336	0.324	6.82
82) TP	Styrene		0.426	0.503	0.540	0.547	0.554	0.550	0.531	0.522	8.69
83) I	1,4-Dichlorobenzene-d4	----------ISTD----------									
84) TP	Bromoform		0.104	0.133	0.149	0.166	0.181	0.193	0.201	*Q	0.9996
86) TP	Isopropylbenzene		1.292	1.587	1.657	1.599	1.593	1.551	1.551	1.547	7.63
87) S	4-Bromofluorobenzene	0.856	0.840	0.831	0.842	0.799	0.793	0.780	0.790	0.816	3.55
88) TP	Bromobenzene		0.345	0.356	0.377	0.362	0.367	0.365	0.369	0.363	2.79

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2473162**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: VOA122**	**Ical Ref**	**: ICAL21691**
Calibration dates	**: 11/09/24 07:44 11/09/24 11:49**		

Calibration Files
L11 =V22241109A03.D L1 =V22241109A05.D L2 =V22241109A07.D L3 =V22241109A09.D L4 =V22241109A10.D
L6 =V22241109A11.D L8 =V22241109A12.D L10 =V22241109A13.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
89) TP	n-Propylbenzene		1.494	1.820	1.927	1.869	1.876	1.816	1.791	1.799	7.89
90) TP	1,4-Dichlorobu		0.283	0.298	0.306	0.299	0.302	0.307	0.314	0.301	3.22
91) TP	1,1,2,2-Tetrac		0.238	0.242	0.245	0.244	0.239	0.242	0.236	0.241	1.40
92) TP	4-Ethyltoluene		1.302	1.549	1.614	1.562	1.549	1.506	1.491	1.510	6.63
93) TP	2-Chlorotoluene		0.913	1.082	1.089	1.050	1.050	0.981	1.000	1.024	6.15
94) TP	1,3,5-Trimethy		1.125	1.330	1.384	1.356	1.357	1.321	1.329	1.315	6.57
95) TP	1,2,3-Trichlor		0.183	0.194	0.195	0.191	0.191	0.198	0.199	0.193	2.82
96) TP	trans-1,4-Dich		0.048	0.063	0.062	0.063	0.062	0.065	0.062	0.061	9.64
97) TP	4-Chlorotoluene		0.995	1.095	1.112	1.076	1.079	1.050	1.057	1.066	3.57
98) TP	tert-Butylbenzene		0.903	1.145	1.204	1.170	1.186	1.157	1.150	1.131	9.05
101) TP	1,2,4-Trimethy		0.662	0.742	0.779	0.744	0.731	0.869	0.702	0.747	8.73
102) TP	sec-Butylbenzene		1.330	1.634	1.721	1.680	1.665	1.608	1.562	1.600	8.10
103) TP	p-Isopropyltol		1.136	1.422	1.505	1.481	1.466	1.413	1.379	1.400	8.89
104) TP	1,3-Dichlorobe		0.686	0.740	0.766	0.751	0.749	0.730	0.734	0.737	3.45
105) TP	1,4-Dichlorobe		0.726	0.755	0.752	0.733	0.739	0.723	0.725	0.736	1.80
106) TP	p-Diethylbenzene		0.653	0.791	0.846	0.847	0.857	0.830	0.833	0.808	8.85
107) TP	n-Butylbenzene		0.895	1.131	1.202	1.176	1.170	1.114	1.106	1.113	9.21
108) TP	1,2-Dichlorobe		0.598	0.668	0.687	0.670	0.671	0.654	0.653	0.657	4.31
109) TP	1,2,4,5-Tetram		0.869	1.033	1.176	1.184	1.188	1.153	1.134	1.105	10.57
110) TP	1,2-Dibromo-3-		0.025	0.033	0.038	0.040	0.042	0.043	0.042	0.038	18.04
111) TP	1,3,5-Trichlor		0.369	0.426	0.465	0.463	0.465	0.447	0.442	0.440	7.80
112) TP	Hexachlorobuta		0.118	0.137	0.148	0.152	0.159	0.154	0.157	0.146	9.89
113) TP	1,2,4-Trichlor		0.352	0.373	0.396	0.395	0.400	0.388	0.385	0.384#	4.36
114) TP	Naphthalene		0.769	0.856	0.908	0.898	0.873	0.854	0.819	0.854	5.60
115) TP	1,2,3-Trichlor		0.292	0.325	0.340	0.339	0.336	0.329	0.321	0.326#	5.15

Response Factor Report VOA 122

Method Path : K:\VOA122\2024\241109A-ICAL\
Method File : V122_241109A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Nov 11 12:28:19 2024
Response Via : Initial Calibration

Calibration Files
L11 =V22241109A03.D L1 =V22241109A05.D L2 =V22241109A07.D L3 =V22241109A09.D L4 =V22241109A10.D
L6 =V22241109A11.D L8 =V22241109A12.D L10 =V22241109A13.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------	ISTD	----------							
2)	TP	Dichlorodifluo...		0.165	0.223	0.231	0.220	0.213	0.197	0.197	0.207	10.86
3)	TP	Chloromethane		0.167	0.193	0.189	0.180	0.174	0.168	0.165	0.177	6.31
4)	TP	Vinyl chloride	0.239	0.205	0.260	0.260	0.247	0.235	0.223	0.217	0.236	8.34
5)	TP	Bromomethane		0.192	0.187	0.178	0.167	0.159	0.156	0.153	0.170	9.09
6)	TP	Chloroethane		0.183	0.180	0.173	0.158	0.152	0.145	0.139	0.162	10.83
7)	TP	Trichlorofluor...		0.223	0.284	0.297	0.286	0.277	0.261	0.260	0.270	9.13
8)	TP	Ethyl ether		0.064	0.060	0.059	0.059	0.058	0.058	0.058	0.059	4.13
10)	TP	1,1-Dichloroet...		0.118	0.150	0.154	0.148	0.144	0.140	0.142	0.142	8.31
11)	TP	Carbon disulfide		0.364	0.450	0.466	0.442	0.441	0.428	0.437	0.433	7.53
12)	TP	Freon-113		0.118	0.154	0.163	0.154	0.155	0.147	0.156	0.150	9.92
13)	TP	Iodomethane		0.192	0.178	0.180	0.180	0.179	0.174	0.170	0.179	3.78
14)	TP	Acrolein			0.010	0.010	0.011	0.011	0.011	0.011	0.011	3.74
15)	TP	Methylene chlo...		0.189	0.177	0.172	0.163	0.158	0.156	0.156	0.167	7.59
17)	TP	Acetone			0.029	0.025	0.023	0.022	0.022	0.022	0.024	11.86
18)	TP	trans-1,2-Dich...		0.136	0.163	0.165	0.159	0.159	0.155	0.157	0.156	6.19
19)	TP	Methyl acetate		0.076	0.066	0.052	0.054	0.053	0.055	0.054	0.059	15.00
21)	TP	Methyl tert-bu...		0.246	0.265	0.269	0.276	0.283	0.289	0.290	0.274	5.68
22)	TP	tert-Butyl alc...		0.004	0.005	0.005	0.005	0.006	0.006	0.006	0.005#	13.93
24)	TP	Diisopropyl ether		0.365	0.397	0.401	0.405	0.411	0.417	0.420	0.402	4.59
25)	TP	1,1-Dichloroet...		0.258	0.293	0.302	0.288	0.283	0.279	0.278	0.283#	4.88
26)	TP	Halothane		0.102	0.120	0.126	0.122	0.127	0.126	0.129	0.122	7.63
27)	TP	Acrylonitrile		0.026	0.031	0.029	0.029	0.029	0.029	0.029	0.029	5.48
28)	TP	Ethyl tert-but...		0.303	0.322	0.341	0.358	0.365	0.382	0.388	0.351	8.85
29)	TP	Vinyl acetate		0.209	0.229	0.237	0.249	0.261	0.266	0.265	0.245	8.73
30)	TP	cis-1,2-Dichlo...		0.165	0.179	0.182	0.175	0.171	0.169	0.170	0.173#	3.54
31)	TP	2,2-Dichloropr...		0.179	0.212	0.211	0.214	0.218	0.214	0.215	0.209	6.37
32)	TP	Bromochloromet...		0.090	0.088	0.090	0.088	0.085	0.084	0.084	0.087#	2.93
33)	TP	Cyclohexane		0.216	0.276	0.280	0.281	0.282	0.270	0.282	0.269	8.93
34)	TP	Chloroform		0.275	0.299	0.294	0.281	0.278	0.276	0.278	0.283#	3.40
35)	TP	Ethyl acetate			0.077	0.074	0.080	0.081	0.083	0.083	0.080	4.29

Response Factor Report VOA 122

Method Path : K:\VOA122\2024\241109A-ICAL\
Method File : V122_241109A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Nov 11 12:28:19 2024
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L6 =V22241109A11.D L8 =V22241109A12.D L10 =V22241109A13.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
36)	TP	Carbon tetrach...	0.205	0.176	0.228	0.241	0.241	0.247	0.242	0.250	0.229	11.22
37)	TP	Tetrahydrofuran		0.017	0.024	0.021	0.021	0.021	0.022	0.022	0.021	10.43
38)	S	Dibromofluorom...	0.340	0.352	0.349	0.349	0.339	0.331	0.332	0.339	0.341	2.31
39)	TP	1,1,1-Trichlor...		0.217	0.258	0.270	0.269	0.269	0.261	0.260	0.258	7.32
41)	TP	2-Butanone			0.039	0.033	0.032	0.034	0.034	0.034	0.034	6.91
42)	TP	1,1-Dichloropr...		0.163	0.209	0.215	0.219	0.220	0.214	0.219	0.208	9.81
44)	TP	Benzene	0.552	0.505	0.592	0.666	0.658	0.658	0.648	0.643	0.615	9.65
45)	TP	tert-Amyl meth...		0.198	0.217	0.227	0.241	0.246	0.249	0.252	0.233	8.52
46)	S	1,2-Dichloroet...	0.210	0.205	0.213	0.211	0.207	0.210	0.212	0.219	0.211	1.91
47)	T	1,2-Dichloroet...		0.142	0.154	0.157	0.153	0.148	0.147	0.146	0.149	3.43
50)	TP	Methyl cyclohe...		0.164	0.217	0.229	0.236	0.243	0.236	0.253	0.225	12.95
51)	TP	Trichloroethene	0.147	0.130	0.134	0.140	0.143	0.148	0.148	0.155	0.143#	5.63
53)	TP	Dibromomethane		0.066	0.073	0.080	0.080	0.078	0.078	0.078	0.076	6.46
54)	TP	1,2-Dichloropr...		0.103	0.120	0.129	0.129	0.129	0.128	0.129	0.124#	7.85
56)	TP	2-Chloroethyl ...		0.052	0.054	0.059	0.060	0.061	0.061	0.061	0.058	6.46
57)	TP	Bromodichlorom...		0.142	0.161	0.176	0.179	0.181	0.181	0.182	0.172#	8.69
60)	TP	1,4-Dioxane		0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	10.75
61)	TP	cis-1,3-Dichlo...	0.135	0.135	0.163	0.188	0.200	0.202	0.202	0.204	0.179#	16.78
62)	I	Chlorobenzene-d5	----------ISTD----------									
63)	S	Toluene-d8	1.276	1.272	1.274	1.273	1.258	1.251	1.253	1.230	1.261	1.27
64)	TP	Toluene		0.371	0.421	0.428	0.422	0.426	0.421	0.415	0.415	4.80
65)	TP	4-Methyl-2-pen...			0.023	0.027	0.029	0.030	0.031	0.030	0.029#	10.68
66)	TP	Tetrachloroethene		0.148	0.184	0.196	0.197	0.202	0.201	0.203	0.190	10.45
68)	TP	trans-1,3-Dich...	0.149	0.151	0.168	0.193	0.208	0.215	0.218	0.213	0.189#	15.38
70)	TP	Ethyl methacry...		0.087	0.100	0.124	0.131	0.131	0.134	0.129	0.119	15.56
71)	TP	1,1,2-Trichlor...		0.079	0.096	0.099	0.100	0.101	0.103	0.100	0.097#	8.23
72)	TP	Chlorodibromom...		0.113	0.133	0.153	0.164	0.183	0.186	0.183	0.159#	17.69
73)	TP	1,3-Dichloropr...		0.175	0.202	0.204	0.206	0.205	0.207	0.197	0.199	5.61
74)	TP	1,2-Dibromoethane		0.101	0.113	0.121	0.125	0.124	0.127	0.122	0.119#	7.67
76)	TP	2-Hexanone		0.041	0.042	0.046	0.048	0.049	0.050	0.048	0.046	7.52
77)	TP	Chlorobenzene		0.442	0.487	0.495	0.485	0.487	0.483	0.474	0.479	3.68

Response Factor Report VOA 122

Method Path : K:\VOA122\2024\241109A-ICAL\
Method File : V122_241109A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Nov 11 12:28:19 2024
Response Via : Initial Calibration

Calibration Files
L11 =V22241109A03.D L1 =V22241109A05.D L2 =V22241109A07.D L3 =V22241109A09.D L4 =V22241109A10.D
L6 =V22241109A11.D L8 =V22241109A12.D L10 =V22241109A13.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
78)	TP	Ethylbenzene		0.721	0.846	0.858	0.852	0.853	0.837	0.808	0.825	5.91
79)	TP	1,1,1,2-Tetrac...		0.127	0.142	0.163	0.170	0.179	0.179	0.177	0.162	12.53
80)	TP	p/m Xylene		0.288	0.342	0.350	0.348	0.353	0.349	0.351	0.340	6.84
81)	TP	o Xylene		0.275	0.324	0.332	0.331	0.337	0.336	0.336	0.324	6.82
82)	TP	Styrene		0.426	0.503	0.540	0.547	0.554	0.550	0.531	0.522	8.69
83)	I	1,4-Dichlorobenzene-d4	----------ISTD----------									
84)	TP	Bromoform		0.104	0.133	0.149	0.166	0.181	0.193	0.201	*Q	0.9996
86)	TP	Isopropylbenzene		1.292	1.587	1.657	1.599	1.593	1.551	1.551	1.547	7.63
87)	S	4-Bromofluorob...	0.856	0.840	0.831	0.842	0.799	0.793	0.780	0.790	0.816	3.55
88)	TP	Bromobenzene		0.345	0.356	0.377	0.362	0.367	0.365	0.369	0.363	2.79
89)	TP	n-Propylbenzene		1.494	1.820	1.927	1.869	1.876	1.816	1.791	1.799	7.89
90)	TP	1,4-Dichlorobu...		0.283	0.298	0.306	0.299	0.302	0.307	0.314	0.301	3.22
91)	TP	1,1,2,2-Tetrac...		0.238	0.242	0.245	0.244	0.239	0.242	0.236	0.241	1.40
92)	TP	4-Ethyltoluene		1.302	1.549	1.614	1.562	1.549	1.506	1.491	1.510	6.63
93)	TP	2-Chlorotoluene		0.913	1.082	1.089	1.050	1.050	0.981	1.000	1.024	6.15
94)	TP	1,3,5-Trimethy...		1.125	1.330	1.384	1.356	1.357	1.321	1.329	1.315	6.57
95)	TP	1,2,3-Trichlor...		0.183	0.194	0.195	0.191	0.191	0.198	0.199	0.193	2.82
96)	TP	trans-1,4-Dich...		0.048	0.063	0.062	0.063	0.062	0.065	0.062	0.061	9.64
97)	TP	4-Chlorotoluene		0.995	1.095	1.112	1.076	1.079	1.050	1.057	1.066	3.57
98)	TP	tert-Butylbenzene		0.903	1.145	1.204	1.170	1.186	1.157	1.150	1.131	9.05
101)	TP	1,2,4-Trimethy...		0.662	0.742	0.779	0.744	0.731	0.869	0.702	0.747	8.73
102)	TP	sec-Butylbenzene		1.330	1.634	1.721	1.680	1.665	1.608	1.562	1.600	8.10
103)	TP	p-Isopropyltol...		1.136	1.422	1.505	1.481	1.466	1.413	1.379	1.400	8.89
104)	TP	1,3-Dichlorobe...		0.686	0.740	0.766	0.751	0.749	0.730	0.734	0.737	3.45
105)	TP	1,4-Dichlorobe...		0.726	0.755	0.752	0.733	0.739	0.723	0.725	0.736	1.80
106)	TP	p-Diethylbenzene		0.653	0.791	0.846	0.847	0.857	0.830	0.833	0.808	8.85
107)	TP	n-Butylbenzene		0.895	1.131	1.202	1.176	1.170	1.114	1.106	1.113	9.21
108)	TP	1,2-Dichlorobe...		0.598	0.668	0.687	0.670	0.671	0.654	0.653	0.657	4.31
109)	TP	1,2,4,5-Tetram...		0.869	1.033	1.176	1.184	1.188	1.153	1.134	1.105	10.57
110)	TP	1,2-Dibromo-3-...		0.025	0.033	0.038	0.040	0.042	0.043	0.042	0.038	18.04
111)	TP	1,3,5-Trichlor...		0.369	0.426	0.465	0.463	0.465	0.447	0.442	0.440	7.80

Method Path : K:\VOA122\2024\241109A-ICAL\
Method File : V122_241109A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Nov 11 12:28:19 2024
Response Via : Initial Calibration

Calibration Files
L11 =V22241109A03.D L1 =V22241109A05.D L2 =V22241109A07.D L3 =V22241109A09.D L4 =V22241109A10.D
L6 =V22241109A11.D L8 =V22241109A12.D L10 =V22241109A13.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
112)	TP Hexachlorobuta...	0.118	0.137	0.148	0.152	0.159	0.154	0.157	0.146		9.89
113)	TP 1,2,4-Trichlor...	0.352	0.373	0.396	0.395	0.400	0.388	0.385	0.384#		4.36
114)	TP Naphthalene	0.769	0.856	0.908	0.898	0.873	0.854	0.819	0.854		5.60
115)	TP 1,2,3-Trichlor...	0.292	0.325	0.340	0.339	0.336	0.329	0.321	0.326#		5.15

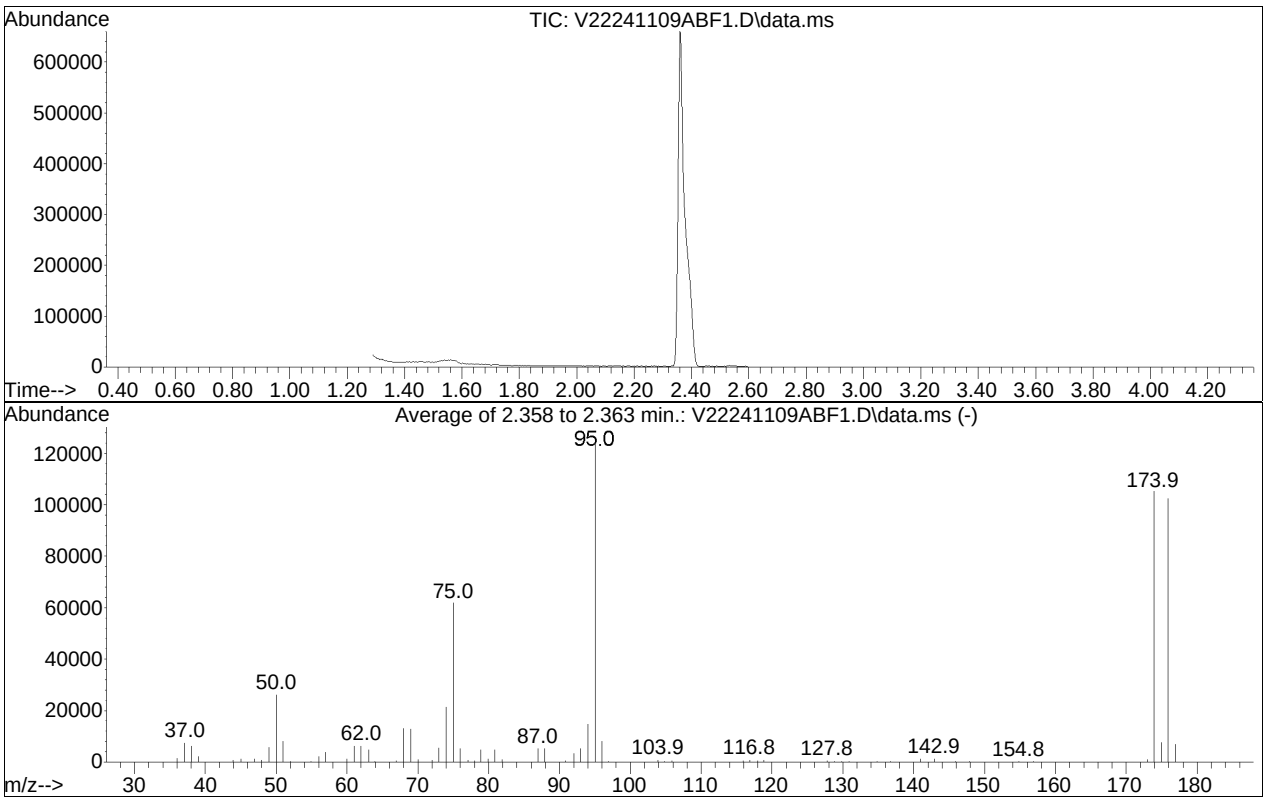
(#) = Out of Range

BFB

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109ABF1.D
Acq On : 09 Nov 2024 06:36 am
Operator : VOA122:TMS
Sample : WG1995828-1
Misc : WG1995828
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Nov 11 12:28:19 2024



AutoFind: Scans 384, 385, 386; Background Corrected with Scan 374

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.1	26243	PASS
75	95	30	60	49.8	61872	PASS
95	95	100	100	100.0	124120	PASS
96	95	5	9	6.6	8201	PASS
173	174	0.00	2	0.9	915	PASS
174	95	50	100	84.7	105157	PASS
175	174	5	9	7.3	7710	PASS
176	174	95	101	97.3	102301	PASS
177	176	5	9	6.7	6874	PASS

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A03.D
Acq On : 09 Nov 2024 07:44 am
Operator : VOA122:PID
Sample : I8260STD0.19PPB
Misc : WG1995828,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 11 12:18:22 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:18:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241109A-ICAL\V22241109A09.D
Sub List : 8260-L11_MCP - L11 MCP

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.944	96	533964	10.000 ug/L	0.00
Standard Area 1 = 524901			Recovery = 101.73%		
62) Chlorobenzene-d5	9.484	117	424248	10.000 ug/L	0.00
Standard Area 1 = 419733			Recovery = 101.08%		
83) 1,4-Dichlorobenzene-d4	12.202	152	226562	10.000 ug/L	0.00
Standard Area 1 = 229516			Recovery = 98.71%		
System Monitoring Compounds					
38) Dibromofluoromethane	5.138	113	181697	9.970 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.70%		
46) 1,2-Dichloroethane-d4	5.649	65	112072	9.951 ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.51%		
63) Toluene-d8	7.640	98	541203	10.118 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.18%		
87) 4-Bromofluorobenzene	10.984	95	194027	10.490 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.90%		
Target Compounds					Qvalue
4) Vinyl chloride	1.867	62	2420	0.192 ug/L #	38
36) Carbon tetrachloride	5.105	117	2076	0.170 ug/L #	78
44) Benzene	5.531	78	5602	0.171 ug/L #	85
51) Trichloroethene	6.121	95	1495	0.196 ug/L #	80
61) cis-1,3-Dichloropropene	7.432	75	1372	0.144 ug/L #	75
68) trans-1,3-Dichloropropene	8.182	75	1203	0.150 ug/L	90

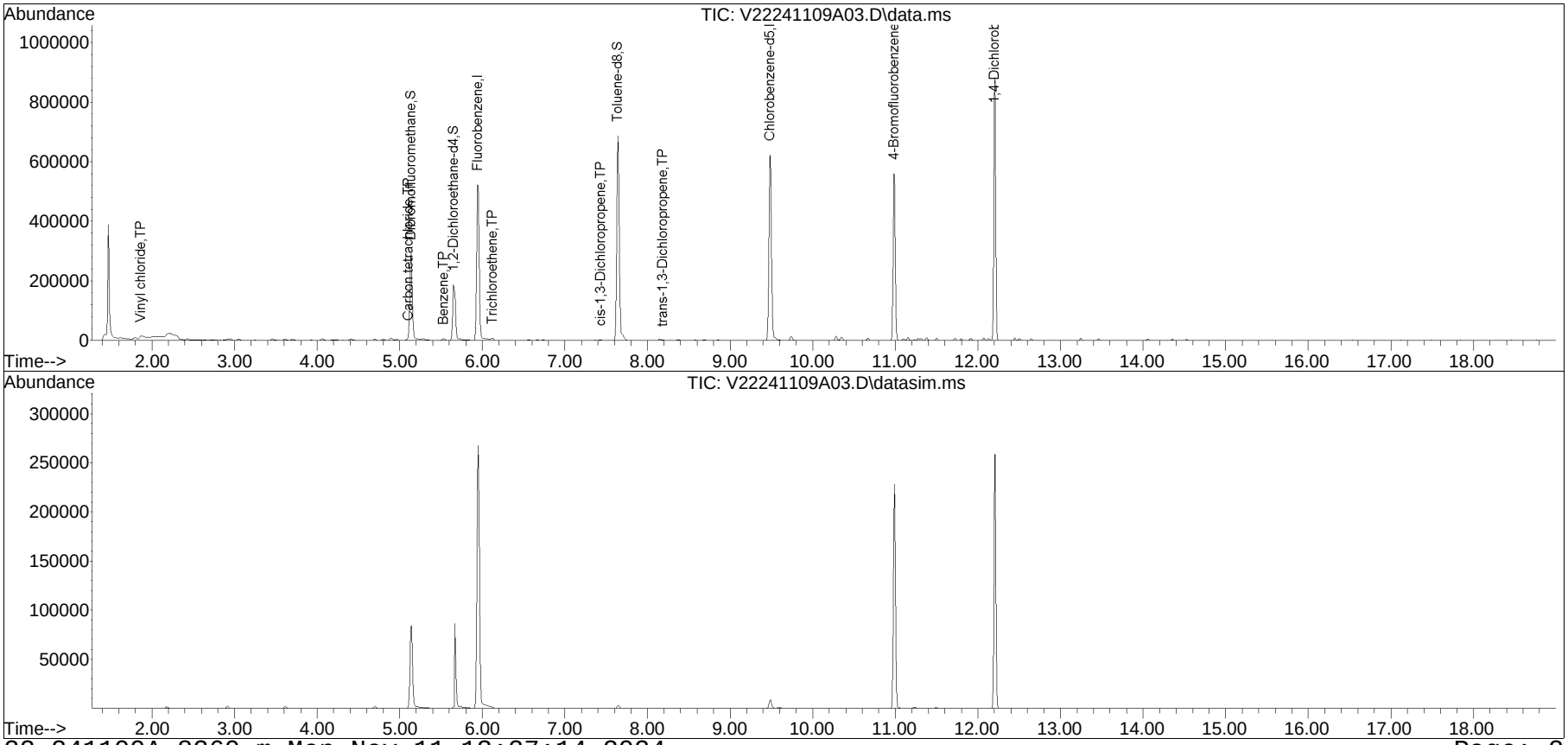
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A03.D
Acq On : 09 Nov 2024 07:44 am
Operator : VOA122:PID
Sample : I8260STD0.19PPB
Misc : WG1995828,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 11 12:18:22 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:18:01 2024
Response via : Initial Calibration

Sub List : 8260-L11_MCP - L11 MCP109A-ICAL\V22241109A09.D•



Manual Integration Report

Data Path	: K:\VOA122\2024\241109A-ICAQ	Method	: V122_241109A_8260.m
Data File	: V22241109A03.D	Operator	: VOA122:PID
Date Inj'd	: 11/9/2024 7:44 am	Instrument	: VOA 122
Sample	: I8260STD0.19PPB	Quant Date	: 11/11/2024 12:18 pm

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A05.D
Acq On : 09 Nov 2024 08:33 am
Operator : VOA122:PID
Sample : I8260STD0.5PPB
Misc : WG1995828,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 11 12:18:30 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:18:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241109A-ICAL\V22241109A09.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.951	96	515239	10.000 ug/L	0.00
Standard Area 1 = 524901			Recovery =	98.16%	
62) Chlorobenzene-d5	9.484	117	413495	10.000 ug/L	0.00
Standard Area 1 = 419733			Recovery =	98.51%	
83) 1,4-Dichlorobenzene-d4	12.202	152	224358	10.000 ug/L	0.00
Standard Area 1 = 229516			Recovery =	97.75%	
System Monitoring Compounds					
38) Dibromofluoromethane	5.138	113	181520	10.322 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.22%	
46) 1,2-Dichloroethane-d4	5.649	65	105683	9.725 ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.25%	
63) Toluene-d8	7.640	98	525860	10.087 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.87%	
87) 4-Bromofluorobenzene	10.984	95	188452	10.289 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.89%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.612	85	4245	0.399 ug/L #	94
3) Chloromethane	1.795	50	4310	0.473 ug/L	96
4) Vinyl chloride	1.874	62	5286	0.435 ug/L #	59
5) Bromomethane	2.176	94	4944	0.563 ug/L	91
6) Chloroethane	2.294	64	4715	0.567 ug/L	98
7) Trichlorofluoromethane	2.431	101	5740	0.413 ug/L	96
8) Ethyl ether	2.733	74	1661	0.543 ug/L #	1
10) 1,1-Dichloroethene	2.916	96	3038	0.414 ug/L	91
11) Carbon disulfide	2.942	76	9375	0.421 ug/L	100
12) Freon-113	2.956	101	3031	0.393 ug/L	94
13) Iodomethane	3.054	142	4942	0.536 ug/L	91
14) Acrolein	0.000		0	N.D.	
15) Methylene chloride	3.454	84	4881	0.566 ug/L	88
17) Acetone	0.000		0	N.D. d	
18) trans-1,2-Dichloroethene	3.611	96	3495	0.434 ug/L	94
19) Methyl acetate	3.611	43	1946	0.645 ug/L #	67
21) Methyl tert-butyl ether	3.709	73	6336	0.449 ug/L #	78
22) tert-Butyl alcohol	3.794	59	483	1.791 ug/L #	73
24) Diisopropyl ether	4.063	45	9401	0.454 ug/L #	91
25) 1,1-Dichloroethane	4.188	63	6641	0.456 ug/L	97
26) Halothane	4.234	117	2625	0.418 ug/L	91

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A05.D
Acq On : 09 Nov 2024 08:33 am
Operator : VOA122:PID
Sample : I8260STD0.5PPB
Misc : WG1995828,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 11 12:18:30 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:18:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241109A-ICAL\V22241109A09.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.227	53	657	0.444	ug/L		91
28) Ethyl tert-butyl ether	4.411	59	7807	0.431	ug/L		94
29) Vinyl acetate	4.417	43	5380	0.426	ug/L	#	83
30) cis-1,2-Dichloroethene	4.699	96	4239	0.476	ug/L		93
31) 2,2-Dichloropropane	4.797	77	4617	0.429	ug/L	#	78
32) Bromochloromethane	4.896	128	2314	0.517	ug/L		89
33) Cyclohexane	4.902	56	5554	0.400	ug/L		86
34) Chloroform	4.961	83	7094	0.487	ug/L		95
35) Ethyl acetate	0.000		0	N.D.	d		
36) Carbon tetrachloride	5.099	117	4538	0.385	ug/L		93
37) Tetrahydrofuran	5.125	42	428M6	0.394	ug/L		
39) 1,1,1-Trichloroethane	5.171	97	5578	0.420	ug/L		94
41) 2-Butanone	0.000		0	N.D.	d		
42) 1,1-Dichloropropene	5.289	75	4197	0.391	ug/L		98
44) Benzene	5.531	78	13015	0.411	ug/L		95
45) tert-Amyl methyl ether	5.649	73	5102	0.425	ug/L	#	79
47) 1,2-Dichloroethane	5.734	62	3655	0.475	ug/L		93
50) Methyl cyclohexane	6.121	83	4234	0.364	ug/L		94
51) Trichloroethene	6.127	95	3360	0.455	ug/L		86
53) Dibromomethane	6.556	93	1706	0.434	ug/L	#	79
54) 1,2-Dichloropropane	6.667	63	2651	0.416	ug/L		97
56) 2-Chloroethyl vinyl ether	7.369	63	1338	0.445	ug/L	#	88
57) Bromodichloromethane	6.730	83	3664	0.414	ug/L	#	94
60) 1,4-Dioxane	6.952	88	2385	77.734	ug/L	#	74
61) cis-1,3-Dichloropropene	7.432	75	3487	0.378	ug/L	#	85
64) Toluene	7.703	92	7664	0.447	ug/L		97
65) 4-Methyl-2-pentanone	0.000		0	N.D.	d		
66) Tetrachloroethene	8.148	166	3050	0.388	ug/L		88
68) trans-1,3-Dichloropropene	8.175	75	3130	0.400	ug/L		90
70) Ethyl methacrylate	8.377	69	1794	0.363	ug/L	#	72
71) 1,1,2-Trichloroethane	8.363	83	1640	0.410	ug/L		98
72) Chlorodibromomethane	8.579	129	2340	0.355	ug/L		96
73) 1,3-Dichloropropane	8.684	76	3624	0.439	ug/L		99
74) 1,2-Dibromoethane	8.853	107	2087	0.424	ug/L		93
76) 2-Hexanone	9.147	43	857	0.447	ug/L	#	47
77) Chlorobenzene	9.505	112	9131	0.461	ug/L	#	74
78) Ethylbenzene	9.554	91	14905	0.437	ug/L		99
79) 1,1,1,2-Tetrachloroethane	9.596	131	2620	0.391	ug/L	#	61
80) p/m Xylene	9.743	106	11912	0.847	ug/L		96
81) o Xylene	10.283	106	11383	0.849	ug/L		94

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A05.D
Acq On : 09 Nov 2024 08:33 am
Operator : VOA122:PID
Sample : I8260STD0.5PPB
Misc : WG1995828,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 11 12:18:30 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:18:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241109A-ICAL\V22241109A09.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
82) Styrene	10.346	104	17635	0.818	ug/L		99
84) Bromoform	10.367	173	1167	0.323	ug/L		87
86) Isopropylbenzene	10.669	105	14496	0.418	ug/L		97
88) Bromobenzene	11.097	156	3871	0.475	ug/L		95
89) n-Propylbenzene	11.153	91	16765	0.415	ug/L		98
90) 1,4-Dichlorobutane	11.160	55	3178	0.470	ug/L		100
91) 1,1,2,2-Tetrachloroethane	11.230	83	2665	0.493	ug/L	#	88
92) 4-Ethyltoluene	11.279	105	14609	0.431	ug/L		96
93) 2-Chlorotoluene	11.314	91	10239M6	0.446	ug/L		
94) 1,3,5-Trimethylbenzene	11.377	105	12618	0.428	ug/L		96
95) 1,2,3-Trichloropropane	11.370	75	2048	0.473	ug/L		92
96) trans-1,4-Dichloro-2-b...	11.426	53	534	0.393	ug/L	#	77
97) 4-Chlorotoluene	11.496	91	11159	0.466	ug/L		99
98) tert-Butylbenzene	11.721	119	10134	0.399	ug/L		98
101) 1,2,4-Trimethylbenzene	11.791	105	7424	0.443	ug/L		99
102) sec-Butylbenzene	11.916	105	14919	0.416	ug/L		97
103) p-Isopropyltoluene	12.069	119	12739	0.406	ug/L		97
104) 1,3-Dichlorobenzene	12.125	146	7690	0.465	ug/L		97
105) 1,4-Dichlorobenzene	12.223	146	8139M3	0.493	ug/L		
106) p-Diethylbenzene	12.445	119	7328	0.404	ug/L		95
107) n-Butylbenzene	12.501	91	10039	0.402	ug/L		97
108) 1,2-Dichlorobenzene	12.647	146	6711	0.455	ug/L		99
109) 1,2,4,5-Tetramethylben...	13.239	119	9752	0.393	ug/L		97
110) 1,2-Dibromo-3-chloropr...	13.427	155	275	0.327	ug/L		93
111) 1,3,5-Trichlorobenzene	13.462	180	4139	0.420	ug/L		95
112) Hexachlorobutadiene	14.046	225	1322	0.403	ug/L		94
113) 1,2,4-Trichlorobenzene	14.060	180	3944	0.458	ug/L		96
114) Naphthalene	14.360	128	8621	0.450	ug/L		100
115) 1,2,3-Trichlorobenzene	14.527	180	3272	0.447	ug/L		98

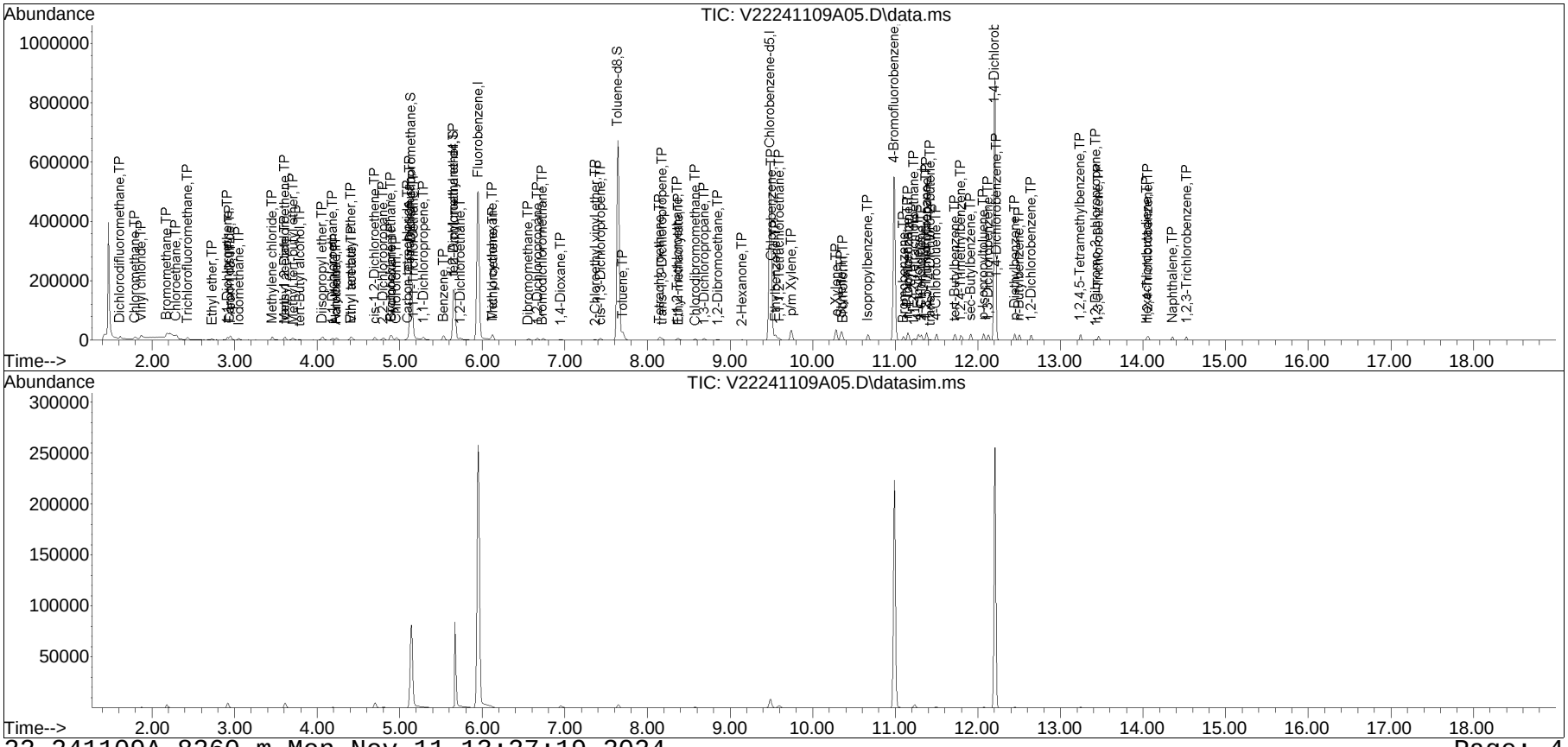
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A05.D
Acq On : 09 Nov 2024 08:33 am
Operator : VOA122:PID
Sample : I8260STD0.5PPB
Misc : WG1995828,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 11 12:18:30 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:18:01 2024
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus DioxL\V22241109A09.D•

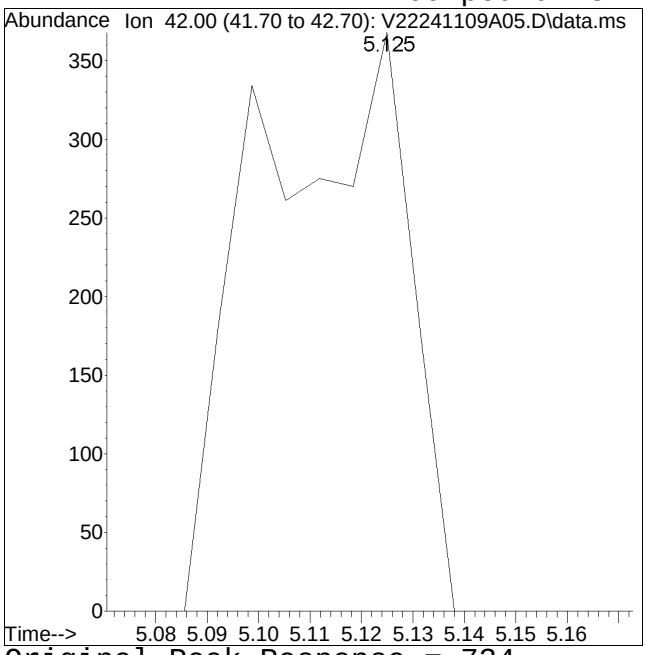


Manual Integration Report

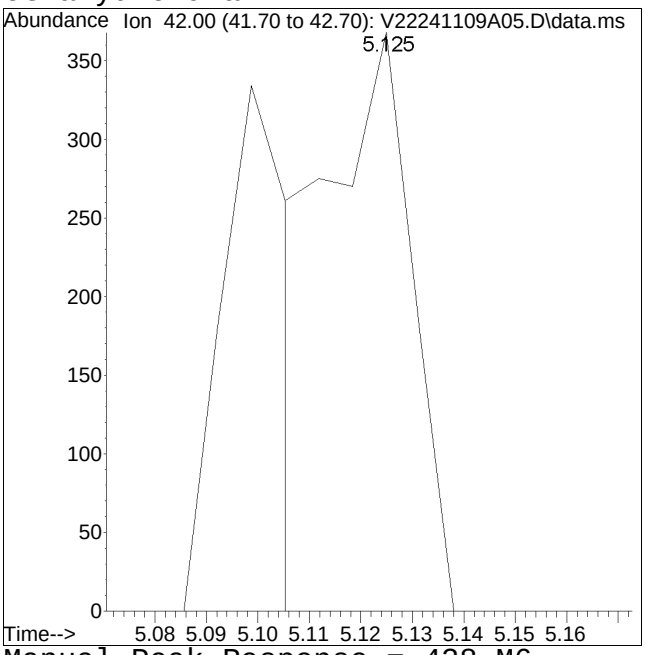
Data Path : K:\VOA122\2024\241109A-ICAQ
Data File : V22241109A05.D
Date Inj'd : 11/9/2024 8:33 am
Sample : I8260STD0.5PPB

Method : V122_241109A_8260.m
Operator : VOA122:PID
Instrument : VOA 122
Quant Date : 11/11/2024 12:18 pm

Compound #37: Tetrahydrofuran



Original Peak Response = 734



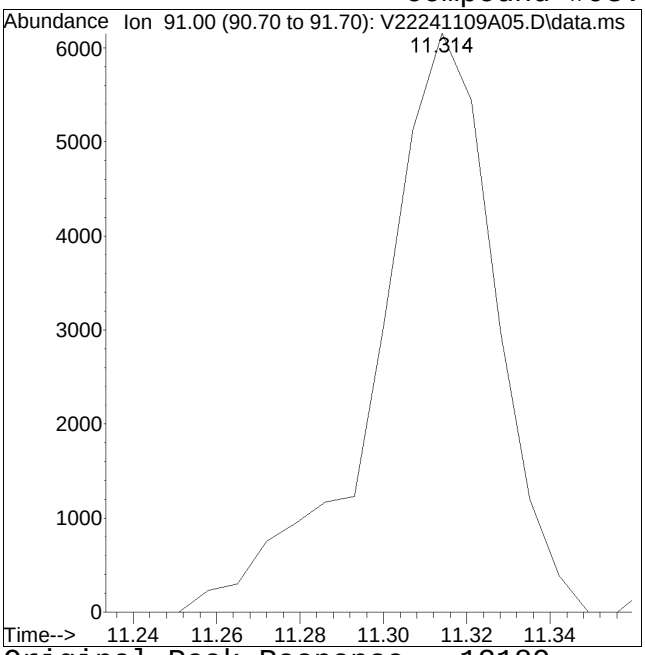
Manual Peak Response = 428 M6

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

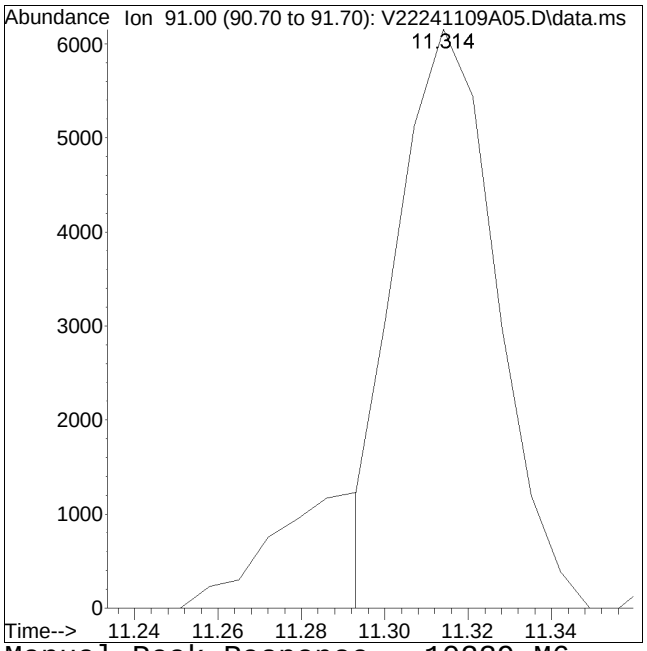
Manual Integration Report

Data Path : K:\VOA122\2024\241109A-ICAQMethod : V122_241109A_8260.m
Data File : V22241109A05.D Operator : VOA122:PID
Date Inj'd : 11/9/2024 8:33 am Instrument : VOA 122
Sample : I8260STD0.5PPB Quant Date : 11/11/2024 12:18 pm

Compound #93: 2-Chlorotoluene



Original Peak Response = 12189



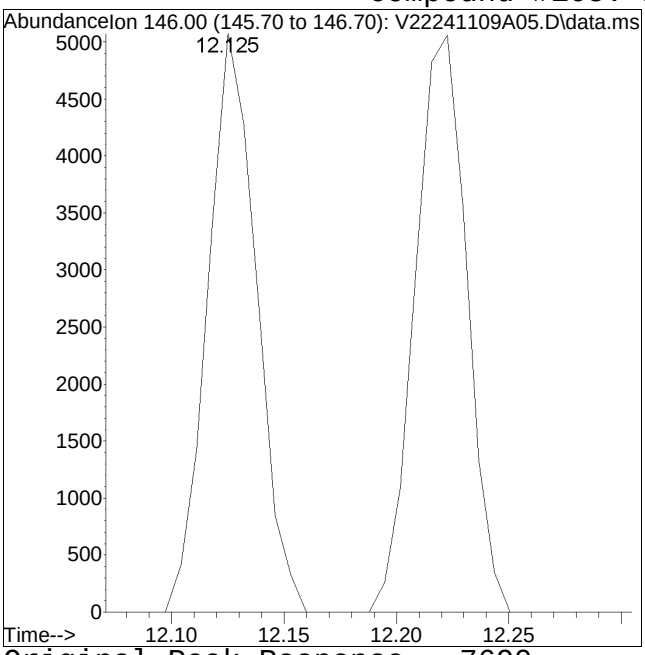
Manual Peak Response = 10239 M6

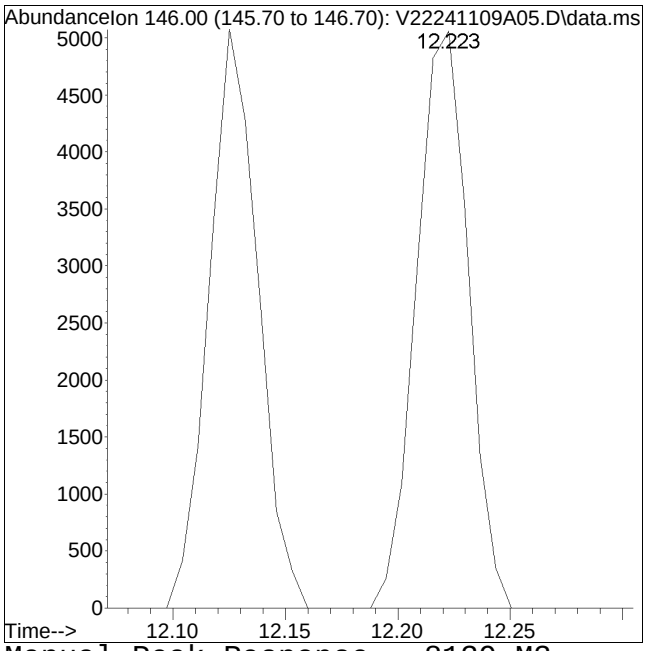
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\VOA122\2024\241109A-ICAQMethod : V122_241109A_8260.m
Data File : V22241109A05.D Operator : VOA122:PID
Date Inj'd : 11/9/2024 8:33 am Instrument : VOA 122
Sample : I8260STD0.5PPB Quant Date : 11/11/2024 12:18 pm

Compound #105: 1,4-Dichlorobenzene





Original Peak Response = 7690 Manual Peak Response = 8139 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:\VOA122\2024\241109A-ICAL\
Data File : V22241109A07.D
Acq On : 09 Nov 2024 09:22 am
Operator : VOA122:PID
Sample : I8260STD2PPB
Misc : WG1995828,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 11 12:18:37 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:18:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241109A-ICAL\V22241109A09.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.950	96	521354	10.000	ug/L	0.00
Standard Area 1 = 524901			Recovery = 99.32%			
62) Chlorobenzene-d5	9.484	117	415694	10.000	ug/L	0.00
Standard Area 1 = 419733			Recovery = 99.04%			
83) 1,4-Dichlorobenzene-d4	12.202	152	228153	10.000	ug/L	0.00
Standard Area 1 = 229516			Recovery = 99.41%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.138	113	181771	10.215	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.15%			
46) 1,2-Dichloroethane-d4	5.669	65	110981	10.093	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.93%			
63) Toluene-d8	7.640	98	529516	10.103	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.03%			
87) 4-Bromofluorobenzene	10.984	95	189558	10.177	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.77%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.618	85	23282	2.162	ug/L	98
3) Chloromethane	1.802	50	20120	2.184	ug/L	96
4) Vinyl chloride	1.874	62	27104	2.206	ug/L	94
5) Bromomethane	2.175	94	19457	2.192	ug/L	99
6) Chloroethane	2.293	64	18801	2.233	ug/L	98
7) Trichlorofluoromethane	2.431	101	29657	2.109	ug/L	100
8) Ethyl ether	2.726	74	6297	2.034	ug/L #	1
10) 1,1-Dichloroethene	2.916	96	15688	2.115	ug/L	91
11) Carbon disulfide	2.949	76	46945	2.081	ug/L	99
12) Freon-113	2.955	101	16040	2.056	ug/L	96
13) Iodomethane	3.054	142	18560	1.989	ug/L	95
14) Acrolein	3.231	56	1062	1.890	ug/L	97
15) Methylene chloride	3.460	84	18418	2.113	ug/L	88
17) Acetone	3.493	43	3063	2.440	ug/L #	87
18) trans-1,2-Dichloroethene	3.611	96	16955	2.082	ug/L	96
19) Methyl acetate	3.617	43	6847	2.244	ug/L #	88
21) Methyl tert-butyl ether	3.703	73	27667	1.937	ug/L #	87
22) tert-Butyl alcohol	3.781	59	2648	9.706	ug/L #	49
24) Diisopropyl ether	4.063	45	41367	1.972	ug/L	93
25) 1,1-Dichloroethane	4.188	63	30514	2.069	ug/L	97
26) Halothane	4.233	117	12521	1.972	ug/L	99

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A07.D
Acq On : 09 Nov 2024 09:22 am
Operator : VOA122:PID
Sample : I8260STD2PPB
Misc : WG1995828,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 11 12:18:37 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:18:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241109A-ICAL\V22241109A09.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.227	53	3196	2.133	ug/L		96
28) Ethyl tert-butyl ether	4.410	59	33620	1.836	ug/L		93
29) Vinyl acetate	4.417	43	23864	1.868	ug/L	#	94
30) cis-1,2-Dichloroethene	4.699	96	18682	2.073	ug/L		93
31) 2,2-Dichloropropane	4.804	77	22083	2.027	ug/L		86
32) Bromochloromethane	4.889	128	9166	2.023	ug/L		92
33) Cyclohexane	4.902	56	28760	2.048	ug/L		87
34) Chloroform	4.961	83	31161	2.113	ug/L		96
35) Ethyl acetate	5.072	43	8020	1.929	ug/L	#	91
36) Carbon tetrachloride	5.099	117	23810	1.996	ug/L	#	95
37) Tetrahydrofuran	5.112	42	2496M6	2.268	ug/L		
39) 1,1,1-Trichloroethane	5.164	97	26932	2.004	ug/L		97
41) 2-Butanone	5.249	43	4027	2.258	ug/L	#	53
42) 1,1-Dichloropropene	5.289	75	21809	2.007	ug/L		100
44) Benzene	5.531	78	61755	1.925	ug/L		96
45) tert-Amyl methyl ether	5.643	73	22639	1.864	ug/L	#	81
47) 1,2-Dichloroethane	5.728	62	16019	2.056	ug/L		99
50) Methyl cyclohexane	6.127	83	22594	1.922	ug/L		93
51) Trichloroethene	6.127	95	13956	1.870	ug/L		98
53) Dibromomethane	6.556	93	7649	1.925	ug/L	#	82
54) 1,2-Dichloropropane	6.667	63	12504	1.939	ug/L		96
56) 2-Chloroethyl vinyl ether	7.369	63	5664	1.860	ug/L		98
57) Bromodichloromethane	6.737	83	16787	1.875	ug/L		97
60) 1,4-Dioxane	6.945	88	11995	386.367	ug/L	#	83
61) cis-1,3-Dichloropropene	7.432	75	17024	1.826	ug/L	#	90
64) Toluene	7.703	92	35011	2.030	ug/L		99
65) 4-Methyl-2-pentanone	8.134	58	1930	1.627	ug/L	#	68
66) Tetrachloroethene	8.148	166	15286	1.934	ug/L		92
68) trans-1,3-Dichloropropene	8.175	75	13935	1.770	ug/L		89
70) Ethyl methacrylate	8.377	69	8276	1.668	ug/L	#	80
71) 1,1,2-Trichloroethane	8.363	83	7976	1.982	ug/L		96
72) Chlorodibromomethane	8.572	129	11067	1.671	ug/L		97
73) 1,3-Dichloropropane	8.684	76	16764	2.022	ug/L		100
74) 1,2-Dibromoethane	8.853	107	9430	1.905	ug/L		99
76) 2-Hexanone	9.147	43	3476	1.802	ug/L	#	83
77) Chlorobenzene	9.505	112	40510	2.034	ug/L		96
78) Ethylbenzene	9.554	91	70339	2.051	ug/L		100
79) 1,1,1,2-Tetrachloroethane	9.596	131	11818	1.752	ug/L		95
80) p/m Xylene	9.743	106	56876	4.021	ug/L		99
81) o Xylene	10.283	106	53801	3.990	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A07.D
Acq On : 09 Nov 2024 09:22 am
Operator : VOA122:PID
Sample : I8260STD2PPB
Misc : WG1995828,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 11 12:18:37 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:18:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241109A-ICAL\V22241109A09.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
82) Styrene	10.346	104	83560	3.854	ug/L		99
84) Bromoform	10.367	173	6087	1.655	ug/L		99
86) Isopropylbenzene	10.669	105	72405	2.051	ug/L		98
88) Bromobenzene	11.097	156	16254	1.962	ug/L		98
89) n-Propylbenzene	11.153	91	83029	2.023	ug/L		100
90) 1,4-Dichlorobutane	11.160	55	13594	1.977	ug/L		98
91) 1,1,2,2-Tetrachloroethane	11.230	83	11036	2.008	ug/L		100
92) 4-Ethyltoluene	11.279	105	70669	2.051	ug/L		100
93) 2-Chlorotoluene	11.314	91	49351M6	2.113	ug/L		
94) 1,3,5-Trimethylbenzene	11.377	105	60682	2.023	ug/L		100
95) 1,2,3-Trichloropropane	11.370	75	8840	2.010	ug/L		97
96) trans-1,4-Dichloro-2-b...	11.426	53	2888	2.088	ug/L	#	64
97) 4-Chlorotoluene	11.503	91	49981	2.054	ug/L		99
98) tert-Butylbenzene	11.721	119	52254	2.026	ug/L		99
101) 1,2,4-Trimethylbenzene	11.791	105	33840	1.986	ug/L		99
102) sec-Butylbenzene	11.916	105	74580	2.043	ug/L		100
103) p-Isopropyltoluene	12.069	119	64872	2.031	ug/L		99
104) 1,3-Dichlorobenzene	12.125	146	33773	2.010	ug/L		98
105) 1,4-Dichlorobenzene	12.222	146	34442M3	2.051	ug/L		
106) p-Diethylbenzene	12.445	119	36106	1.958	ug/L		99
107) n-Butylbenzene	12.501	91	51587	2.031	ug/L		99
108) 1,2-Dichlorobenzene	12.647	146	30492	2.034	ug/L		98
109) 1,2,4,5-Tetramethylben...	13.239	119	47145	1.870	ug/L		100
110) 1,2-Dibromo-3-chloropr...	13.427	155	1487	1.737	ug/L		96
111) 1,3,5-Trichlorobenzene	13.462	180	19451	1.939	ug/L		97
112) Hexachlorobutadiene	14.046	225	6250	1.872	ug/L		98
113) 1,2,4-Trichlorobenzene	14.060	180	17040	1.945	ug/L		99
114) Naphthalene	14.360	128	39063	2.005	ug/L		100
115) 1,2,3-Trichlorobenzene	14.527	180	14816	1.992	ug/L		98

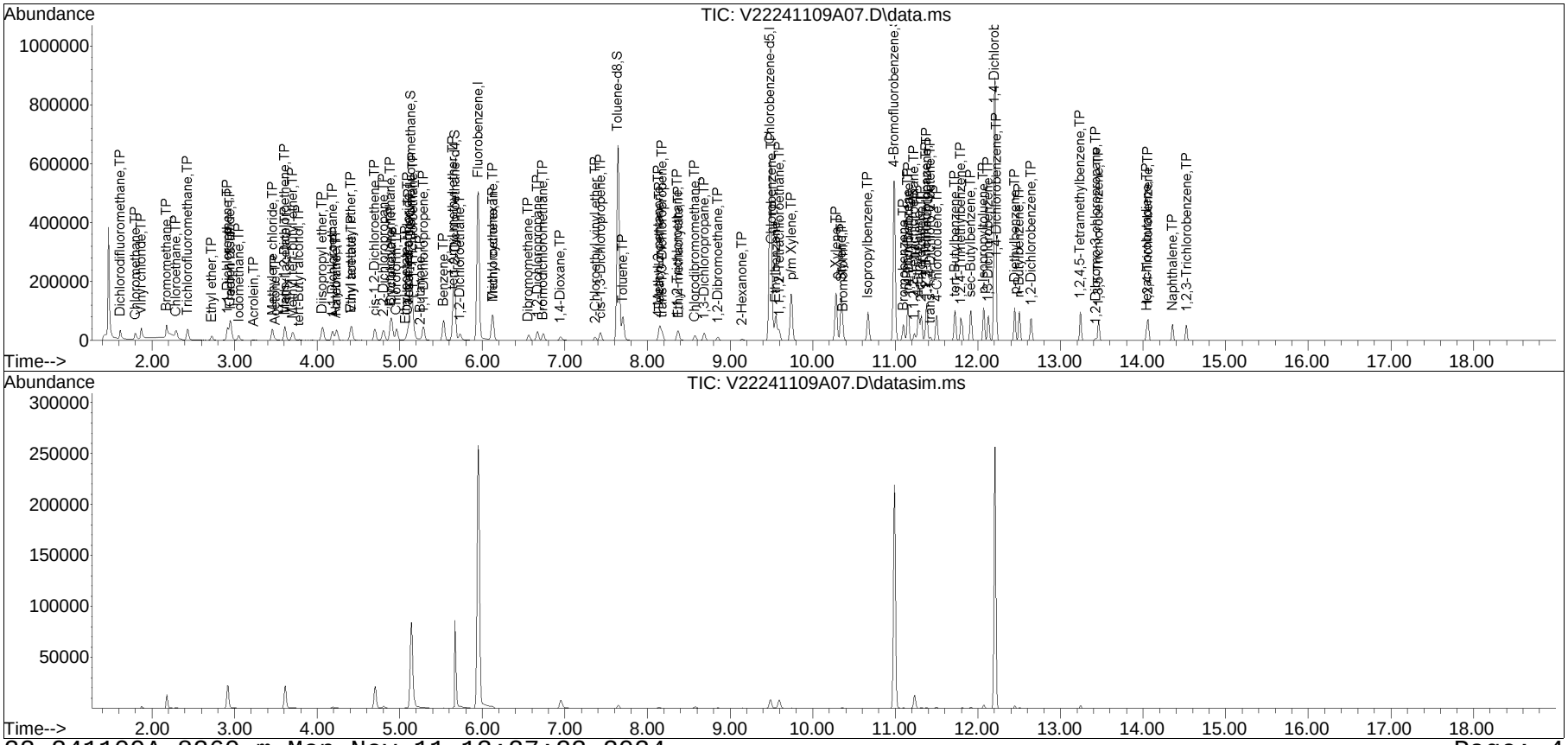
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A07.D
Acq On : 09 Nov 2024 09:22 am
Operator : VOA122:PID
Sample : I8260STD2PPB
Misc : WG1995828,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 11 12:18:37 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:18:01 2024
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus DioxL\V22241109A09.D•

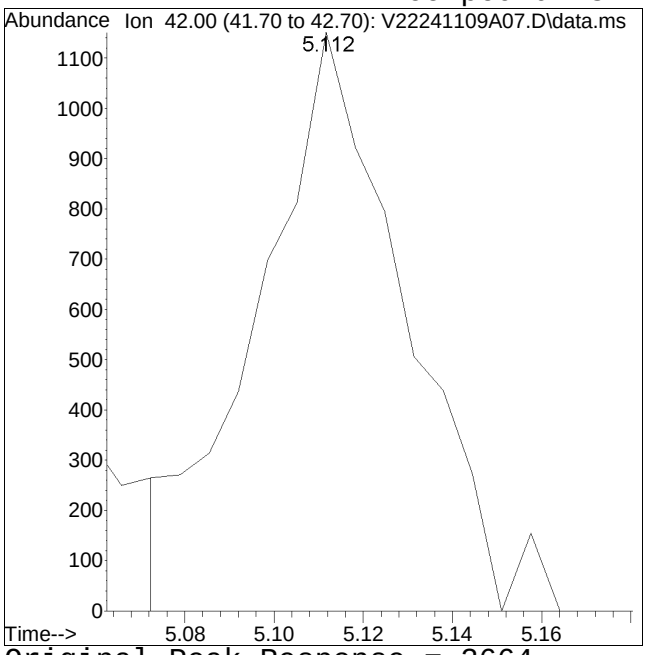


Manual Integration Report

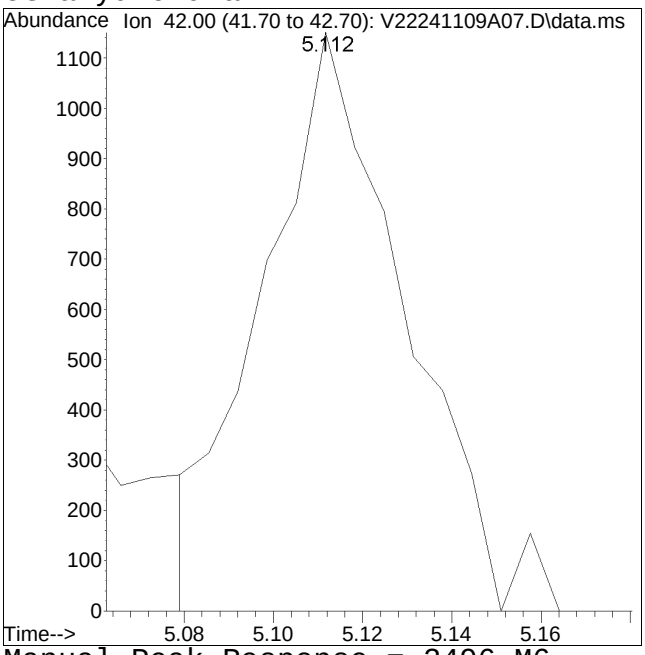
Data Path : K:\VOA122\2024\241109A-ICAQ
Data File : V22241109A07.D
Date Inj'd : 11/9/2024 9:22 am
Sample : I8260STD2PPB

Method : V122_241109A_8260.m
Operator : VOA122:PID
Instrument : VOA 122
Quant Date : 11/11/2024 12:18 pm

Compound #37: Tetrahydrofuran



Original Peak Response = 2664



Manual Peak Response = 2496 M6

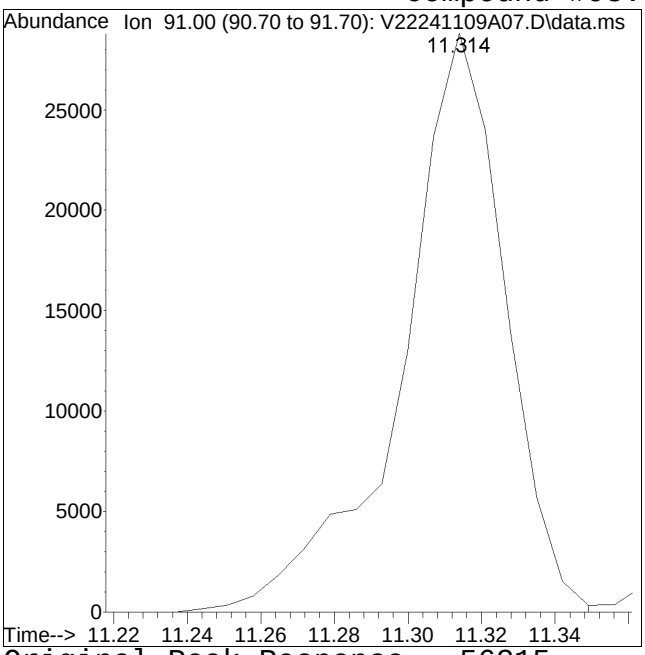
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

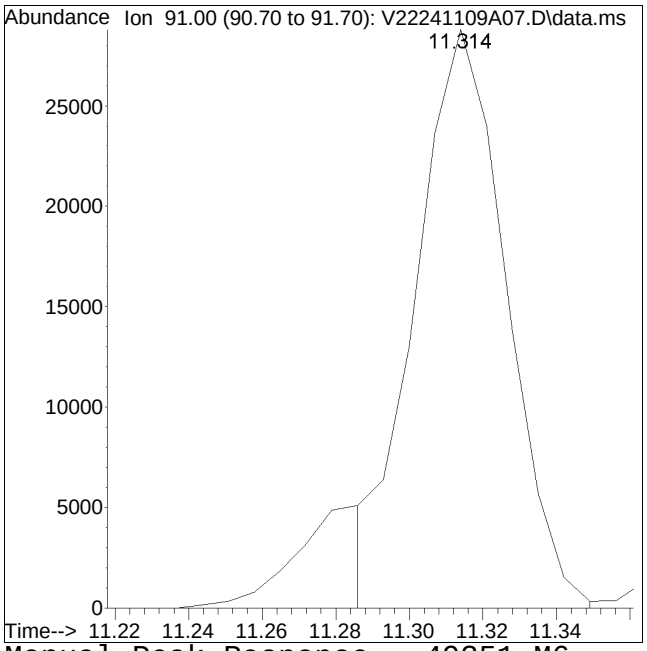
Data Path : K:\VOA122\2024\241109A-ICAQ
Data File : V22241109A07.D
Date Inj'd : 11/9/2024 9:22 am
Sample : I8260STD2PPB

Method : V122_241109A_8260.m
Operator : VOA122:PID
Instrument : VOA 122
Quant Date : 11/11/2024 12:18 pm

Compound #93: 2-Chlorotoluene



Original Peak Response = 56215



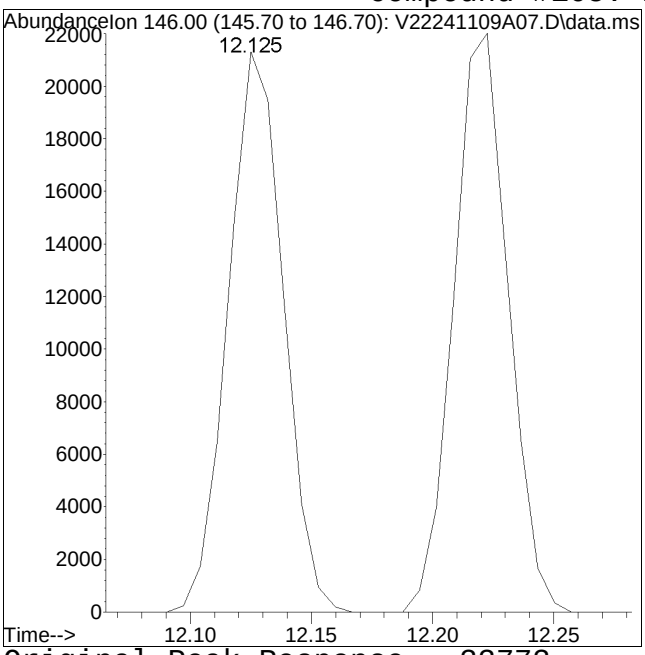
Manual Peak Response = 49351 M6

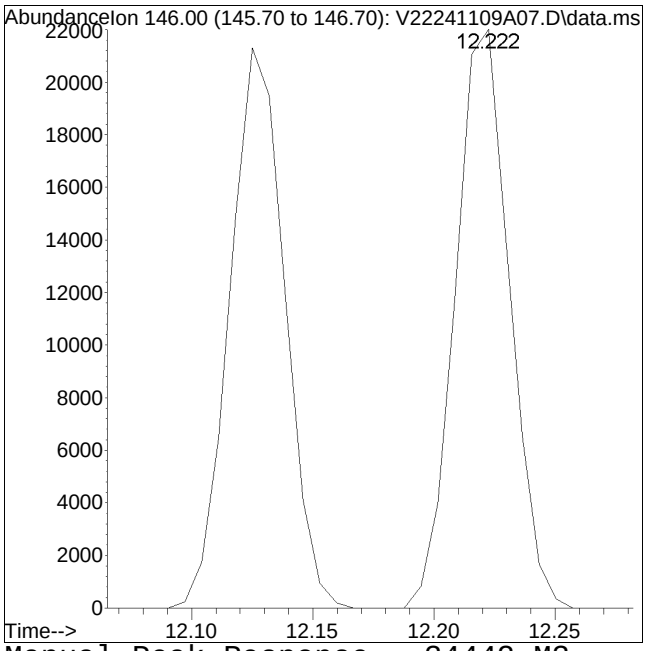
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\VOA122\2024\241109A-ICAQMethod : V122_241109A_8260.m
Data File : V22241109A07.D Operator : VOA122:PID
Date Inj'd : 11/9/2024 9:22 am Instrument : VOA 122
Sample : I8260STD2PPB Quant Date : 11/11/2024 12:18 pm

Compound #105: 1,4-Dichlorobenzene





Original Peak Response = 33773 Manual Peak Response = 34442 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:\VOA122\2024\241109A-ICAL\
Data File : V22241109A09.D
Acq On : 09 Nov 2024 10:11 am
Operator : VOA122:PID
Sample : I8260STD10PPB
Misc : WG1995828,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 11 12:18:44 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:18:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241109A-ICAL\V22241109A09.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.951	96	524901	10.000	ug/L	0.00
Standard Area 1 = 524901			Recovery = 100.00%			
62) Chlorobenzene-d5	9.484	117	419733	10.000	ug/L	0.00
Standard Area 1 = 419733			Recovery = 100.00%			
83) 1,4-Dichlorobenzene-d4	12.202	152	229516	10.000	ug/L	0.00
Standard Area 1 = 229516			Recovery = 100.00%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.138	113	182964	10.213	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.13%			
46) 1,2-Dichloroethane-d4	5.669	65	110793	10.008	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.08%			
63) Toluene-d8	7.640	98	534427	10.099	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.99%			
87) 4-Bromofluorobenzene	10.984	95	193188	10.310	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.10%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.619	85	121208	11.182	ug/L	97
3) Chloromethane	1.802	50	99440	10.719	ug/L	99
4) Vinyl chloride	1.874	62	136297	11.017	ug/L	96
5) Bromomethane	2.176	94	93641	10.476	ug/L	99
6) Chloroethane	2.294	64	90906	10.722	ug/L	100
7) Trichlorofluoromethane	2.431	101	155943	11.015	ug/L	99
8) Ethyl ether	2.726	74	30742	9.864	ug/L #	1
10) 1,1-Dichloroethene	2.916	96	80799	10.817	ug/L	94
11) Carbon disulfide	2.949	76	244828	10.782	ug/L	100
12) Freon-113	2.956	101	85609	10.899	ug/L	95
13) Iodomethane	3.054	142	94309	10.040	ug/L	93
14) Acrolein	3.224	56	5447	9.626	ug/L	95
15) Methylene chloride	3.460	84	90213	10.277	ug/L	88
17) Acetone	3.493	43	13259	10.490	ug/L	95
18) trans-1,2-Dichloroethene	3.611	96	86727	10.577	ug/L	94
19) Methyl acetate	3.611	43	27533	8.964	ug/L	96
21) Methyl tert-butyl ether	3.709	73	141021	9.805	ug/L #	91
22) tert-Butyl alcohol	3.781	59	13834	50.364	ug/L #	83
24) Diisopropyl ether	4.063	45	210715	9.979	ug/L	95
25) 1,1-Dichloroethane	4.188	63	158316	10.663	ug/L	98
26) Halothane	4.234	117	66231	10.362	ug/L	99

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A09.D
Acq On : 09 Nov 2024 10:11 am
Operator : VOA122:PID
Sample : I8260STD10PPB
Misc : WG1995828,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 11 12:18:44 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:18:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241109A-ICAL\V22241109A09.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.227	53	15399	10.208	ug/L		93
28) Ethyl tert-butyl ether	4.411	59	178829	9.699	ug/L		94
29) Vinyl acetate	4.417	43	124396	9.671	ug/L		94
30) cis-1,2-Dichloroethene	4.699	96	95494	10.523	ug/L		94
31) 2,2-Dichloropropane	4.804	77	110825	10.101	ug/L		89
32) Bromochloromethane	4.889	128	47210	10.350	ug/L		94
33) Cyclohexane	4.902	56	146801	10.384	ug/L		94
34) Chloroform	4.961	83	154427	10.403	ug/L		96
35) Ethyl acetate	5.072	43	39070	9.336	ug/L		98
36) Carbon tetrachloride	5.105	117	126384	10.526	ug/L		99
37) Tetrahydrofuran	5.118	42	11245M6	10.150	ug/L		
39) 1,1,1-Trichloroethane	5.164	97	141809	10.478	ug/L		97
41) 2-Butanone	5.249	43	17221	9.591	ug/L	#	51
42) 1,1-Dichloropropene	5.289	75	112828	10.312	ug/L		100
44) Benzene	5.531	78	349570	10.824	ug/L		99
45) tert-Amyl methyl ether	5.643	73	119233	9.751	ug/L	#	87
47) 1,2-Dichloroethane	5.728	62	82185	10.476	ug/L		99
50) Methyl cyclohexane	6.121	83	120304	10.164	ug/L		93
51) Trichloroethene	6.127	95	73639	9.798	ug/L		98
53) Dibromomethane	6.563	93	41790	10.445	ug/L	#	78
54) 1,2-Dichloropropane	6.667	63	67612	10.416	ug/L		99
56) 2-Chloroethyl vinyl ether	7.362	63	30878	10.074	ug/L		96
57) Bromodichloromethane	6.737	83	92210	10.228	ug/L		100
60) 1,4-Dioxane	6.952	88	16440	525.965	ug/L	#	83
61) cis-1,3-Dichloropropene	7.432	75	98852	10.531	ug/L		93
64) Toluene	7.703	92	179784	10.326	ug/L		100
65) 4-Methyl-2-pentanone	8.134	58	11205	9.355	ug/L		81
66) Tetrachloroethene	8.148	166	82198	10.302	ug/L		94
68) trans-1,3-Dichloropropene	8.175	75	80813	10.166	ug/L		93
70) Ethyl methacrylate	8.377	69	51840	10.345	ug/L		92
71) 1,1,2-Trichloroethane	8.363	83	41617	10.245	ug/L		97
72) Chlorodibromomethane	8.572	129	64058	9.576	ug/L		98
73) 1,3-Dichloropropane	8.684	76	85712	10.237	ug/L		100
74) 1,2-Dibromoethane	8.853	107	50695	10.144	ug/L		98
76) 2-Hexanone	9.140	43	19421	9.970	ug/L		93
77) Chlorobenzene	9.505	112	207811	10.335	ug/L		90
78) Ethylbenzene	9.554	91	359995	10.398	ug/L		100
79) 1,1,1,2-Tetrachloroethane	9.589	131	68352	10.038	ug/L		97
80) p/m Xylene	9.743	106	293905	20.578	ug/L		99
81) o Xylene	10.283	106	278589	20.461	ug/L		99

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A09.D
Acq On : 09 Nov 2024 10:11 am
Operator : VOA122:PID
Sample : I8260STD10PPB
Misc : WG1995828,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 11 12:18:44 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:18:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241109A-ICAL\V22241109A09.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Styrene	10.346	104	452977	20.693	ug/L	100
84) Bromoform	10.360	173	34270	9.264	ug/L	98
86) Isopropylbenzene	10.669	105	380404	10.713	ug/L	100
88) Bromobenzene	11.097	156	86499	10.381	ug/L	99
89) n-Propylbenzene	11.153	91	442324	10.712	ug/L	99
90) 1,4-Dichlorobutane	11.160	55	70268	10.157	ug/L	100
91) 1,1,2,2-Tetrachloroethane	11.230	83	56303	10.185	ug/L	100
92) 4-Ethyltoluene	11.279	105	370490	10.687	ug/L	99
93) 2-Chlorotoluene	11.314	91	250006M6	10.642	ug/L	
94) 1,3,5-Trimethylbenzene	11.377	105	317613	10.527	ug/L	100
95) 1,2,3-Trichloropropane	11.370	75	44670	10.095	ug/L	99
96) trans-1,4-Dichloro-2-b...	11.426	53	14152	10.171	ug/L	82
97) 4-Chlorotoluene	11.496	91	255311	10.432	ug/L	97
98) tert-Butylbenzene	11.721	119	276336	10.648	ug/L	99
101) 1,2,4-Trimethylbenzene	11.791	105	178698	10.426	ug/L	98
102) sec-Butylbenzene	11.916	105	394924	10.754	ug/L	100
103) p-Isopropyltoluene	12.069	119	345472	10.750	ug/L	99
104) 1,3-Dichlorobenzene	12.125	146	175735	10.396	ug/L	98
105) 1,4-Dichlorobenzene	12.223	146	172640	10.221	ug/L	98
106) p-Diethylbenzene	12.445	119	194103	10.464	ug/L	100
107) n-Butylbenzene	12.501	91	275873	10.797	ug/L	98
108) 1,2-Dichlorobenzene	12.647	146	157564	10.447	ug/L	98
109) 1,2,4,5-Tetramethylben...	13.239	119	269837	10.637	ug/L	99
110) 1,2-Dibromo-3-chloropr...	13.427	155	8699	10.098	ug/L	99
111) 1,3,5-Trichlorobenzene	13.462	180	106808	10.586	ug/L	97
112) Hexachlorobutadiene	14.046	225	34000	10.121	ug/L	98
113) 1,2,4-Trichlorobenzene	14.060	180	90844	10.308	ug/L	98
114) Naphthalene	14.353	128	208426	10.635	ug/L	100
115) 1,2,3-Trichlorobenzene	14.527	180	78110	10.441	ug/L	98

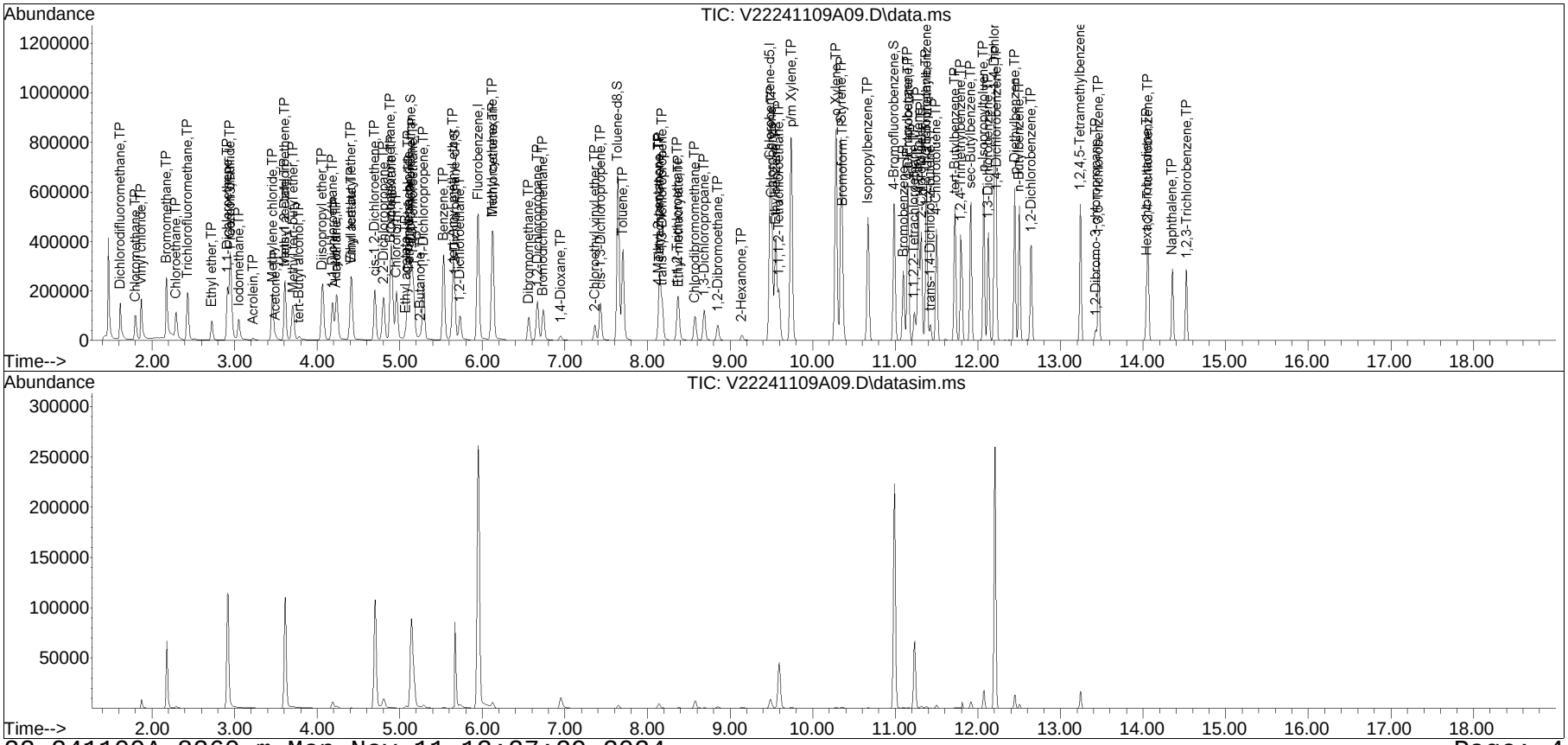
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A09.D
Acq On : 09 Nov 2024 10:11 am
Operator : VOA122:PID
Sample : I8260STD10PPB
Misc : WG1995828,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 11 12:18:44 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:18:01 2024
Response via : Initial Calibration

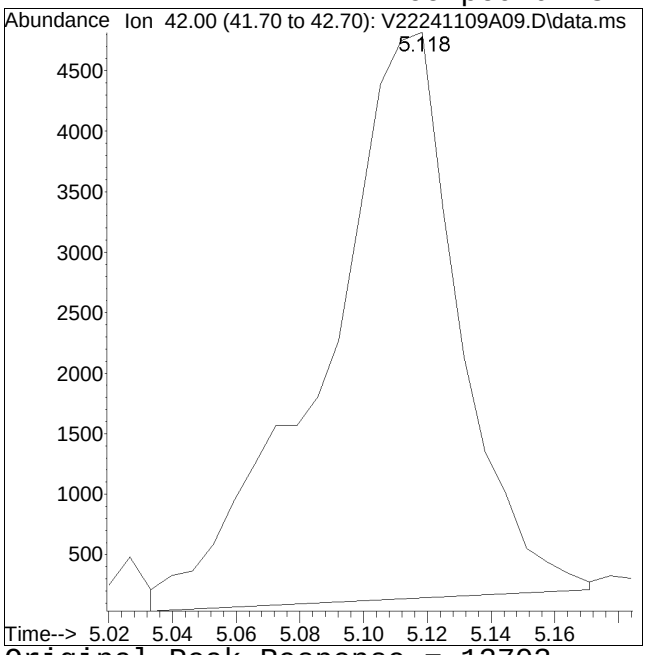
Sub List : 8260-Curve - Megamix plus DioxL\V22241109A09.D•



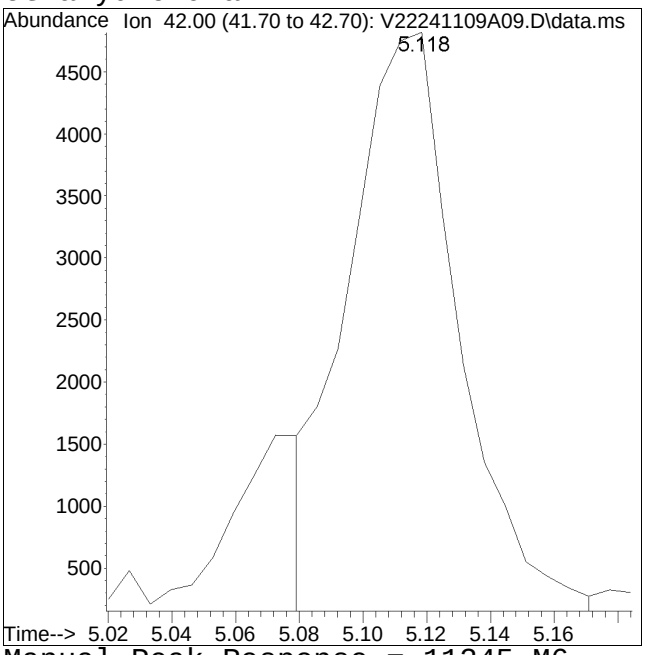
Manual Integration Report

Data Path : K:\VOA122\2024\241109A-ICAQMethod : V122_241109A_8260.m
Data File : V22241109A09.D Operator : VOA122:PID
Date Inj'd : 11/9/2024 10:11 am Instrument : VOA 122
Sample : I8260STD10PPB Quant Date : 11/11/2024 12:18 pm

Compound #37: Tetrahydrofuran



Original Peak Response = 13703



Manual Peak Response = 11245 M6

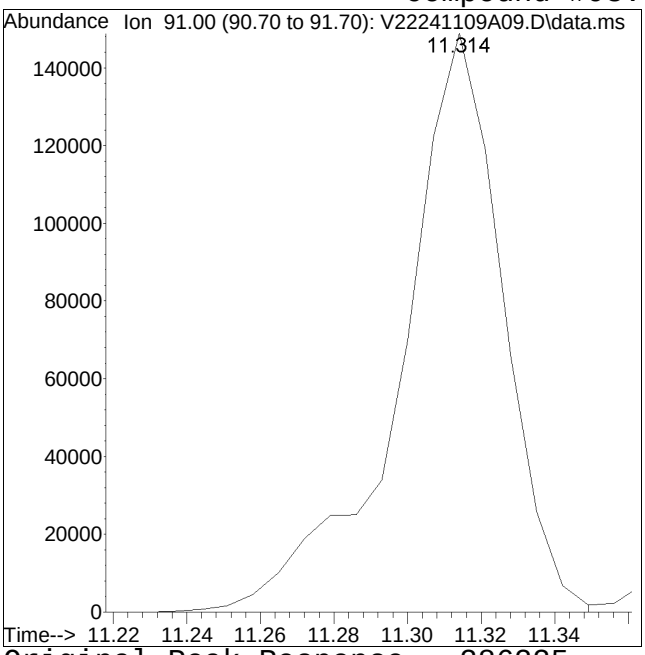
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

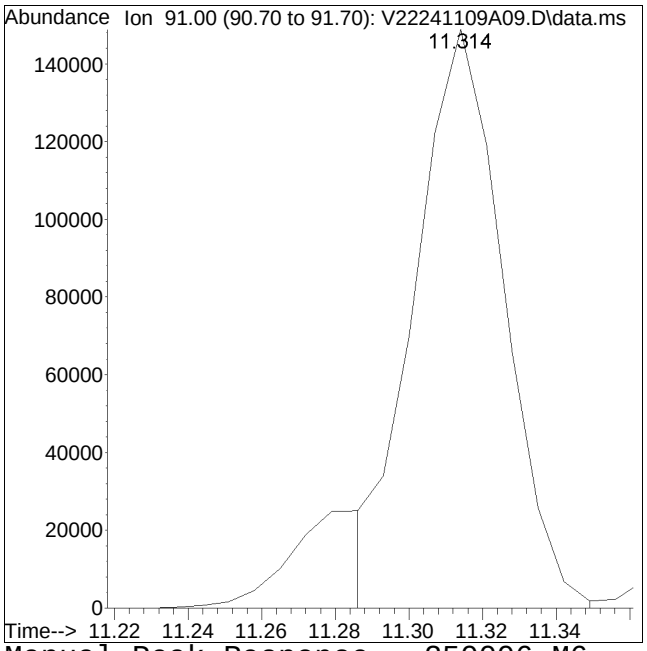
Data Path : K:\VOA122\2024\241109A-ICAQ
Data File : V22241109A09.D
Date Inj'd : 11/9/2024 10:11 am
Sample : I8260STD10PPB

Method : V122_241109A_8260.m
Operator : VOA122:PID
Instrument : VOA 122
Quant Date : 11/11/2024 12:18 pm

Compound #93: 2-Chlorotoluene



Original Peak Response = 286225



Manual Peak Response = 250006 M6

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A10.D
Acq On : 09 Nov 2024 10:36 am
Operator : VOA122:PID
Sample : I8260STD30PPB
Misc : WG1995828,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 11 12:18:51 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:18:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241109A-ICAL\V22241109A09.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.951	96	553615	10.000	ug/L	0.00
Standard Area 1 = 524901			Recovery = 105.47%			
62) Chlorobenzene-d5	9.484	117	440145	10.000	ug/L	0.00
Standard Area 1 = 419733			Recovery = 104.86%			
83) 1,4-Dichlorobenzene-d4	12.202	152	248151	10.000	ug/L	0.00
Standard Area 1 = 229516			Recovery = 108.12%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.138	113	187609	9.929	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.29%			
46) 1,2-Dichloroethane-d4	5.669	65	114767	9.829	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.29%			
63) Toluene-d8	7.640	98	553509	9.974	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.74%			
87) 4-Bromofluorobenzene	10.984	95	198266	9.787	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.87%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.618	85	364903	31.918	ug/L	97
3) Chloromethane	1.802	50	299456	30.606	ug/L	98
4) Vinyl chloride	1.874	62	409602	31.390	ug/L	100
5) Bromomethane	2.176	94	277657	29.451	ug/L	98
6) Chloroethane	2.294	64	262761	29.383	ug/L	100
7) Trichlorofluoromethane	2.431	101	474635	31.786	ug/L	99
8) Ethyl ether	2.726	74	97954	29.801	ug/L #	1
10) 1,1-Dichloroethene	2.916	96	245839	31.204	ug/L	90
11) Carbon disulfide	2.949	76	734542	30.671	ug/L	99
12) Freon-113	2.955	101	256331	30.940	ug/L	96
13) Iodomethane	3.054	142	298695	30.148	ug/L	93
14) Acrolein	3.224	56	18208	30.508	ug/L	99
15) Methylene chloride	3.460	84	270656	29.235	ug/L	88
17) Acetone	3.493	43	38570	28.932	ug/L	100
18) trans-1,2-Dichloroethene	3.611	96	264012	30.528	ug/L	94
19) Methyl acetate	3.611	43	89066	27.493	ug/L	96
21) Methyl tert-butyl ether	3.709	73	458862	30.249	ug/L	93
22) tert-Butyl alcohol	3.788	59	42918	148.143	ug/L #	84
24) Diisopropyl ether	4.063	45	672546	30.198	ug/L	95
25) 1,1-Dichloroethane	4.188	63	478746	30.573	ug/L	99
26) Halothane	4.240	117	202654	30.061	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A10.D
Acq On : 09 Nov 2024 10:36 am
Operator : VOA122:PID
Sample : I8260STD30PPB
Misc : WG1995828,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 11 12:18:51 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:18:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241109A-ICAL\V22241109A09.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.220	53	48397	30.418	ug/L		94
28) Ethyl tert-butyl ether	4.410	59	594105	30.551	ug/L		94
29) Vinyl acetate	4.417	43	413060	30.447	ug/L		95
30) cis-1,2-Dichloroethene	4.699	96	290805	30.383	ug/L		94
31) 2,2-Dichloropropane	4.804	77	355458	30.719	ug/L		91
32) Bromochloromethane	4.889	128	145475	30.238	ug/L		94
33) Cyclohexane	4.902	56	466306	31.273	ug/L		92
34) Chloroform	4.961	83	466004	29.763	ug/L		97
35) Ethyl acetate	5.072	43	133350	30.211	ug/L		98
36) Carbon tetrachloride	5.105	117	399903	31.578	ug/L		99
37) Tetrahydrofuran	5.112	42	35157M6	30.087	ug/L		
39) 1,1,1-Trichloroethane	5.164	97	447159	31.327	ug/L		98
41) 2-Butanone	5.249	43	52625	27.788	ug/L	#	61
42) 1,1-Dichloropropene	5.289	75	364444	31.581	ug/L		97
44) Benzene	5.531	78	1092296	32.067	ug/L		99
45) tert-Amyl methyl ether	5.643	73	401061	31.097	ug/L	#	90
47) 1,2-Dichloroethane	5.728	62	254095	30.708	ug/L		98
50) Methyl cyclohexane	6.121	83	391730	31.379	ug/L		94
51) Trichloroethene	6.127	95	236998	29.899	ug/L		99
53) Dibromomethane	6.563	93	133127	31.548	ug/L	#	84
54) 1,2-Dichloropropane	6.667	63	213855	31.236	ug/L		99
56) 2-Chloroethyl vinyl ether	7.362	63	99588	30.805	ug/L		96
57) Bromodichloromethane	6.737	83	298059	31.345	ug/L		100
60) 1,4-Dioxane	6.952	88	21433	650.141	ug/L	#	85
61) cis-1,3-Dichloropropene	7.432	75	331478	33.481	ug/L		95
64) Toluene	7.703	92	557354	30.528	ug/L		99
65) 4-Methyl-2-pentanone	8.134	58	38716	30.824	ug/L		85
66) Tetrachloroethene	8.148	166	260676	31.155	ug/L		95
68) trans-1,3-Dichloropropene	8.175	75	274481	32.929	ug/L		95
70) Ethyl methacrylate	8.377	69	173571	33.030	ug/L		94
71) 1,1,2-Trichloroethane	8.363	83	131733	30.924	ug/L		99
72) Chlorodibromomethane	8.579	129	215970	30.789	ug/L		99
73) 1,3-Dichloropropane	8.684	76	272639	31.053	ug/L		99
74) 1,2-Dibromoethane	8.853	107	165255	31.535	ug/L		99
76) 2-Hexanone	9.140	43	64018	31.340	ug/L		94
77) Chlorobenzene	9.505	112	640946	30.397	ug/L		89
78) Ethylbenzene	9.554	91	1124451	30.972	ug/L		100
79) 1,1,1,2-Tetrachloroethane	9.589	131	223817	31.345	ug/L		98
80) p/m Xylene	9.743	106	919139	61.370	ug/L		100
81) o Xylene	10.283	106	875117	61.293	ug/L		100

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A10.D
Acq On : 09 Nov 2024 10:36 am
Operator : VOA122:PID
Sample : I8260STD30PPB
Misc : WG1995828,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 11 12:18:51 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:18:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241109A-ICAL\V22241109A09.D
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82)	Styrene	10.346	104	1445594	62.974	ug/L	100
84)	Bromoform	10.367	173	123910	30.979	ug/L	100
86)	Isopropylbenzene	10.669	105	1190143	31.000	ug/L	100
88)	Bromobenzene	11.097	156	269590	29.924	ug/L	100
89)	n-Propylbenzene	11.153	91	1391503	31.170	ug/L	100
90)	1,4-Dichlorobutane	11.160	55	222882	29.798	ug/L	99
91)	1,1,2,2-Tetrachloroethane	11.230	83	181508	30.369	ug/L	99
92)	4-Ethyltoluene	11.279	105	1162570	31.018	ug/L	99
93)	2-Chlorotoluene	11.314	91	781607M6	30.772	ug/L	
94)	1,3,5-Trimethylbenzene	11.377	105	1009455	30.946	ug/L	100
95)	1,2,3-Trichloropropane	11.370	75	142061	29.695	ug/L	99
96)	trans-1,4-Dichloro-2-b...	11.426	53	46834	31.132	ug/L	89
97)	4-Chlorotoluene	11.496	91	801254	30.281	ug/L	97
98)	tert-Butylbenzene	11.721	119	871010	31.042	ug/L	100
101)	1,2,4-Trimethylbenzene	11.791	105	553790	29.883	ug/L	99
102)	sec-Butylbenzene	11.916	105	1250660	31.499	ug/L	99
103)	p-Isopropyltoluene	12.069	119	1102741	31.738	ug/L	100
104)	1,3-Dichlorobenzene	12.125	146	559156	30.594	ug/L	99
105)	1,4-Dichlorobenzene	12.223	146	545415	29.865	ug/L	98
106)	p-Diethylbenzene	12.445	119	630704	31.447	ug/L	100
107)	n-Butylbenzene	12.501	91	875313	31.684	ug/L	99
108)	1,2-Dichlorobenzene	12.647	146	498526	30.572	ug/L	98
109)	1,2,4,5-Tetramethylben...	13.239	119	881367	32.135	ug/L	100
110)	1,2-Dibromo-3-chloropr...	13.427	155	30001	32.212	ug/L	98
111)	1,3,5-Trichlorobenzene	13.462	180	344364	31.568	ug/L	97
112)	Hexachlorobutadiene	14.046	225	113163	31.155	ug/L	99
113)	1,2,4-Trichlorobenzene	14.060	180	293960	30.850	ug/L	99
114)	Naphthalene	14.360	128	668376	31.544	ug/L	100
115)	1,2,3-Trichlorobenzene	14.527	180	252615	31.231	ug/L	99

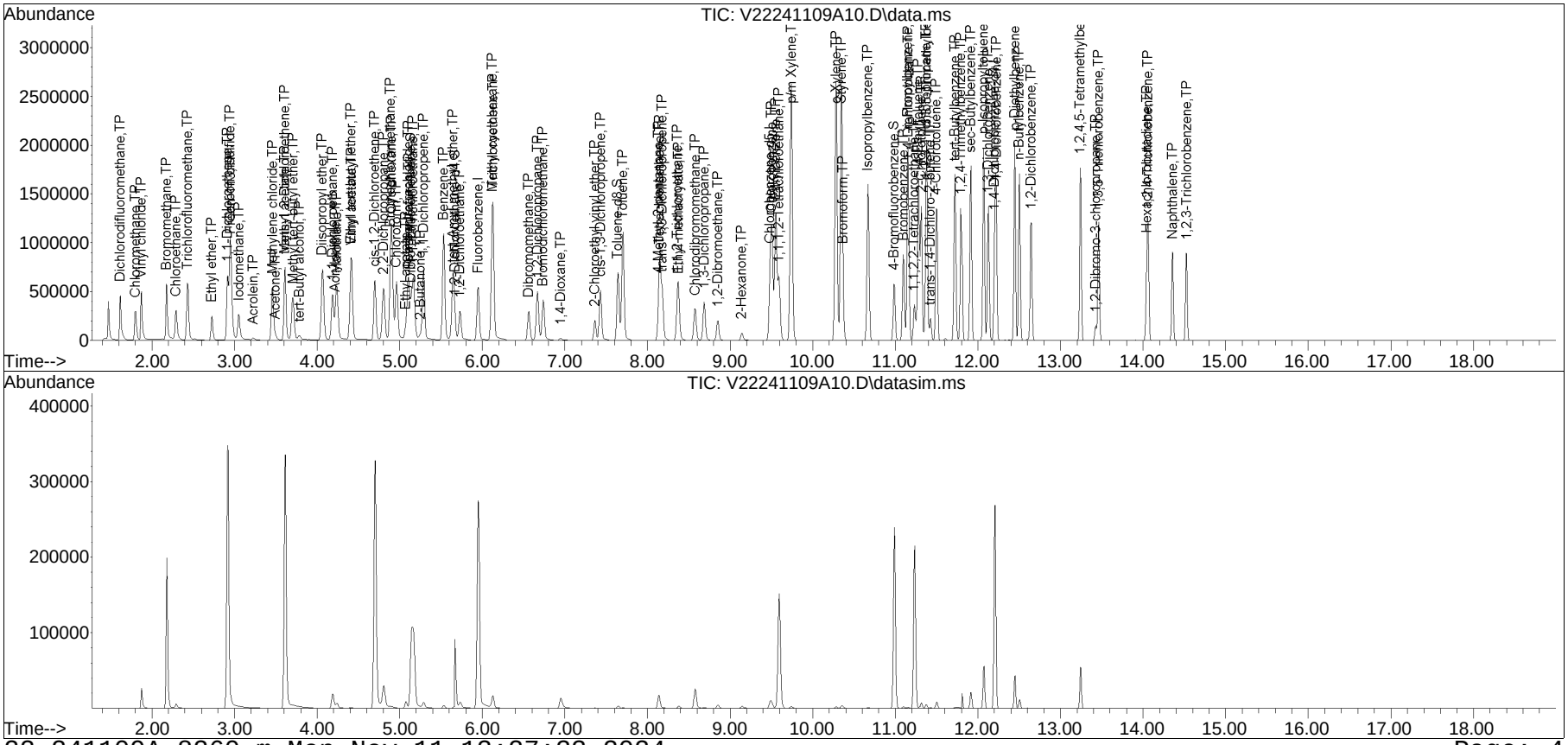
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A10.D
Acq On : 09 Nov 2024 10:36 am
Operator : VOA122:PID
Sample : I8260STD30PPB
Misc : WG1995828,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 11 12:18:51 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:18:01 2024
Response via : Initial Calibration

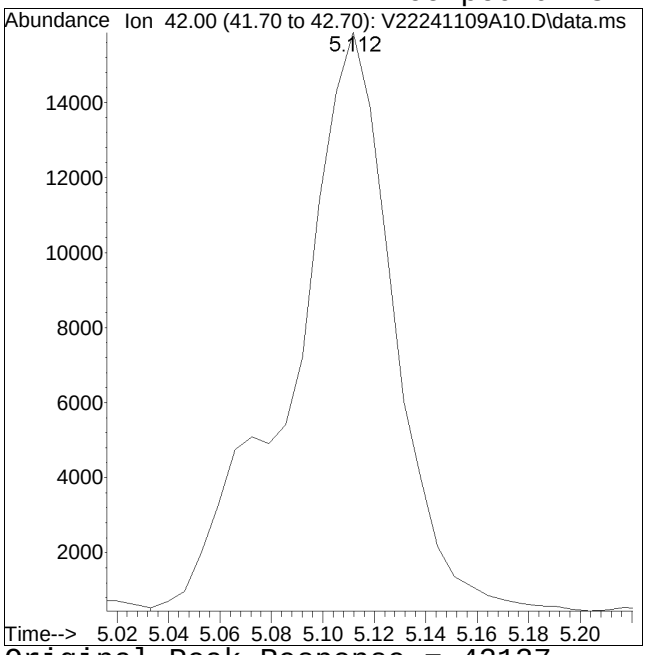
Sub List : 8260-Curve - Megamix plus DioxL\V22241109A09.D•



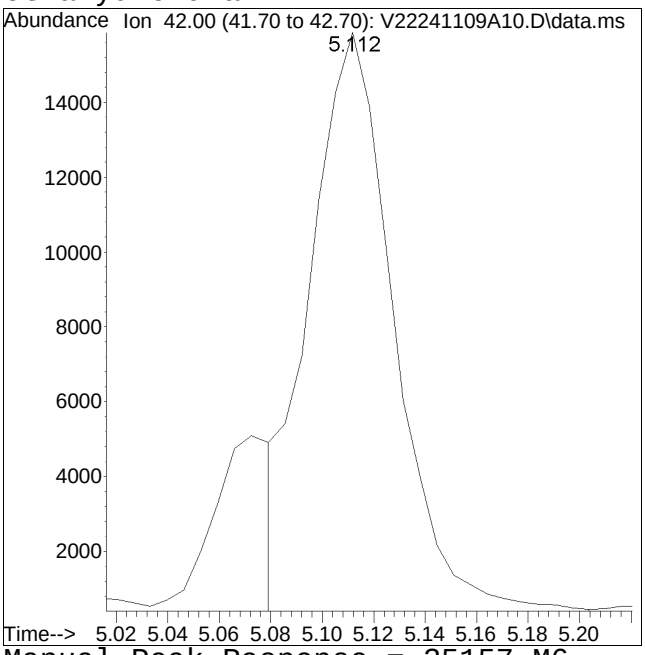
Manual Integration Report

Data Path : K:\VOA122\2024\241109A-ICAQMethod : V122_241109A_8260.m
Data File : V22241109A10.D Operator : VOA122:PID
Date Inj'd : 11/9/2024 10:36 am Instrument : VOA 122
Sample : I8260STD30PPB Quant Date : 11/11/2024 12:18 pm

Compound #37: Tetrahydrofuran



Original Peak Response = 42137



Manual Peak Response = 35157 M6

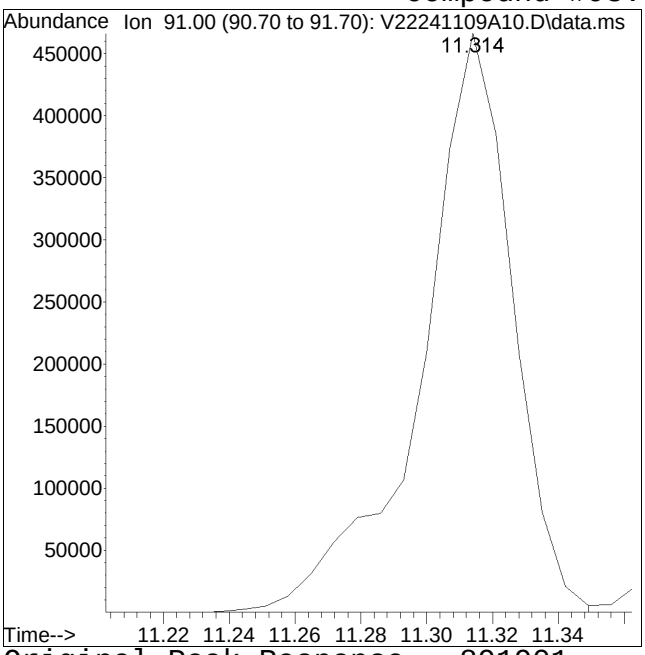
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

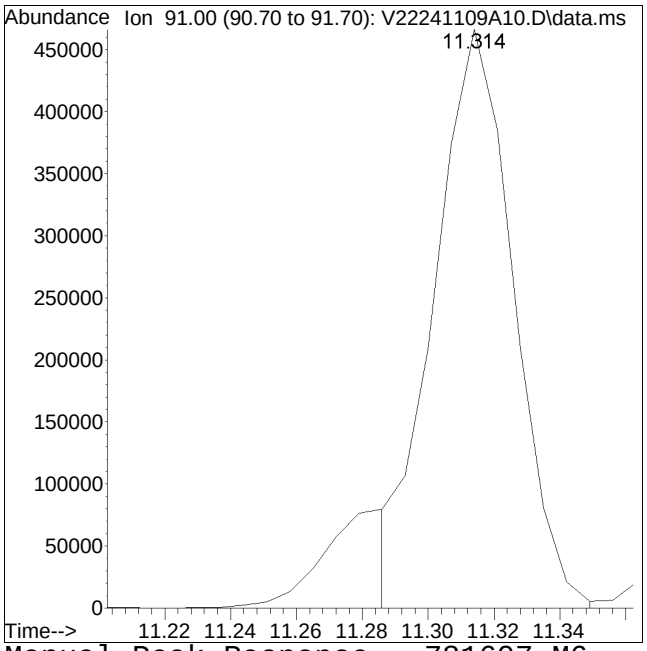
Data Path : K:\VOA122\2024\241109A-ICAQ
Data File : V22241109A10.D
Date Inj'd : 11/9/2024 10:36 am
Sample : I8260STD30PPB

Method : V122_241109A_8260.m
Operator : VOA122:PID
Instrument : VOA 122
Quant Date : 11/11/2024 12:18 pm

Compound #93: 2-Chlorotoluene



Original Peak Response = 891901



Manual Peak Response = 781607 M6

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A11.D
Acq On : 09 Nov 2024 11:01 am
Operator : VOA122:PID
Sample : I8260STD80PPB
Misc : WG1995828,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 11 12:18:59 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:18:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241109A-ICAL\V22241109A09.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.951	96	586254	10.000	ug/L	0.00
Standard Area 1 = 524901			Recovery = 111.69%			
62) Chlorobenzene-d5	9.484	117	460856	10.000	ug/L	0.00
Standard Area 1 = 419733			Recovery = 109.80%			
83) 1,4-Dichlorobenzene-d4	12.209	152	260004	10.000	ug/L	0.00
Standard Area 1 = 229516			Recovery = 113.28%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.138	113	194108	9.701	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.01%			
46) 1,2-Dichloroethane-d4	5.669	65	123196	9.963	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.63%			
63) Toluene-d8	7.641	98	576683	9.925	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.25%			
87) 4-Bromofluorobenzene	10.985	95	206310	9.720	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.20%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.619	85	998575	82.483	ug/L	98
3) Chloromethane	1.796	50	816577	78.811	ug/L	98
4) Vinyl chloride	1.874	62	1101191	79.693	ug/L	99
5) Bromomethane	2.176	94	745038	74.626	ug/L	99
6) Chloroethane	2.287	64	713862	75.384	ug/L	100
7) Trichlorofluoromethane	2.431	101	1298306	82.105	ug/L	99
8) Ethyl ether	2.726	74	270536	77.723	ug/L #	1
10) 1,1-Dichloroethene	2.916	96	675570	80.976	ug/L	90
11) Carbon disulfide	2.943	76	2067416	81.519	ug/L	99
12) Freon-113	2.956	101	727578	82.932	ug/L	95
13) Iodomethane	3.048	142	841221	80.179	ug/L	93
14) Acrolein	3.224	56	51137	80.912	ug/L	98
15) Methylene chloride	3.460	84	739340	75.414	ug/L	88
17) Acetone	3.493	43	104284	73.870	ug/L	96
18) trans-1,2-Dichloroethene	3.611	96	744996	81.348	ug/L	95
19) Methyl acetate	3.611	43	248282	72.372	ug/L	97
21) Methyl tert-butyl ether	3.710	73	1326877	82.601	ug/L	95
22) tert-Butyl alcohol	3.782	59	132151	430.760	ug/L #	83
24) Diisopropyl ether	4.063	45	1925965	81.664	ug/L	95
25) 1,1-Dichloroethane	4.188	63	1325944	79.962	ug/L	99
26) Halothane	4.240	117	597657	83.719	ug/L	100

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A11.D
Acq On : 09 Nov 2024 11:01 am
Operator : VOA122:PID
Sample : I8260STD80PPB
Misc : WG1995828,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 11 12:18:59 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:18:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241109A-ICAL\V22241109A09.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.221	53	133676	79.340	ug/L		93
28) Ethyl tert-butyl ether	4.411	59	1711739	83.122	ug/L		93
29) Vinyl acetate	4.417	43	1223401	85.158	ug/L		94
30) cis-1,2-Dichloroethene	4.699	96	800490	78.978	ug/L		94
31) 2,2-Dichloropropane	4.804	77	1021017	83.324	ug/L		92
32) Bromochloromethane	4.889	128	396962	77.918	ug/L		95
33) Cyclohexane	4.902	56	1320695	83.642	ug/L		91
34) Chloroform	4.961	83	1302021	78.529	ug/L		97
35) Ethyl acetate	5.073	43	379187	81.123	ug/L		98
36) Carbon tetrachloride	5.106	117	1160157	86.510	ug/L		99
37) Tetrahydrofuran	5.112	42	99140M6	80.118	ug/L		
39) 1,1,1-Trichloroethane	5.165	97	1263292	83.575	ug/L		98
41) 2-Butanone	5.250	43	159118	79.343	ug/L	#	57
42) 1,1-Dichloropropene	5.289	75	1033201	84.548	ug/L		100
44) Benzene	5.532	78	3087139	85.586	ug/L		98
45) tert-Amyl methyl ether	5.643	73	1153402	84.453	ug/L	#	92
47) 1,2-Dichloroethane	5.728	62	694205	79.227	ug/L		97
50) Methyl cyclohexane	6.121	83	1140791	86.294	ug/L		94
51) Trichloroethene	6.128	95	695183	82.819	ug/L		100
53) Dibromomethane	6.563	93	366468	82.010	ug/L	#	85
54) 1,2-Dichloropropane	6.667	63	604043	83.316	ug/L		99
56) 2-Chloroethyl vinyl ether	7.362	63	285381	83.360	ug/L		97
57) Bromodichloromethane	6.737	83	848017	84.216	ug/L		100
60) 1,4-Dioxane	6.952	88	30109	862.467	ug/L	#	84
61) cis-1,3-Dichloropropene	7.432	75	948201	90.442	ug/L		95
64) Toluene	7.703	92	1568920	82.072	ug/L		99
65) 4-Methyl-2-pentanone	8.134	58	111681	84.920	ug/L		90
66) Tetrachloroethene	8.148	166	743586	84.876	ug/L		95
68) trans-1,3-Dichloropropene	8.176	75	791412	90.677	ug/L		95
70) Ethyl methacrylate	8.377	69	483179	87.814	ug/L		94
71) 1,1,2-Trichloroethane	8.363	83	372208	83.448	ug/L		98
72) Chlorodibromomethane	8.572	129	676370	92.092	ug/L		94
73) 1,3-Dichloropropane	8.685	76	755961	82.233	ug/L		100
74) 1,2-Dibromoethane	8.853	107	458241	83.515	ug/L		99
76) 2-Hexanone	9.140	43	180679	84.475	ug/L		95
77) Chlorobenzene	9.505	112	1793858	81.252	ug/L		89
78) Ethylbenzene	9.554	91	3145068	82.734	ug/L		99
79) 1,1,1,2-Tetrachloroethane	9.596	131	658604	88.090	ug/L		97
80) p/m Xylene	9.744	106	2605832	166.171	ug/L		98
81) o Xylene	10.283	106	2486875	166.352	ug/L		98

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A11.D
Acq On : 09 Nov 2024 11:01 am
Operator : VOA122:PID
Sample : I8260STD80PPB
Misc : WG1995828,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 11 12:18:59 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:18:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241109A-ICAL\V22241109A09.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Styrene	10.347	104	4085588	169.982	ug/L	99
84) Bromoform	10.368	173	377519	90.081	ug/L	99
86) Isopropylbenzene	10.669	105	3313615	82.375	ug/L	99
88) Bromobenzene	11.097	156	764002	80.937	ug/L	100
89) n-Propylbenzene	11.153	91	3901219	83.403	ug/L	99
90) 1,4-Dichlorobutane	11.160	55	627912	80.120	ug/L	100
91) 1,1,2,2-Tetrachloroethane	11.230	83	497369	79.422	ug/L	100
92) 4-Ethyltoluene	11.279	105	3222484	82.058	ug/L	98
93) 2-Chlorotoluene	11.314	91	2185041M6	82.103	ug/L	
94) 1,3,5-Trimethylbenzene	11.384	105	2822161	82.573	ug/L	99
95) 1,2,3-Trichloropropane	11.370	75	397429	79.287	ug/L	99
96) trans-1,4-Dichloro-2-b...	11.427	53	129475	82.142	ug/L	93
97) 4-Chlorotoluene	11.504	91	2243496	80.921	ug/L	97
98) tert-Butylbenzene	11.721	119	2466185	83.887	ug/L	100
101) 1,2,4-Trimethylbenzene	11.791	105	1520779	78.322	ug/L	99
102) sec-Butylbenzene	11.917	105	3462785	83.236	ug/L	98
103) p-Isopropyltoluene	12.070	119	3048383	83.737	ug/L	99
104) 1,3-Dichlorobenzene	12.125	146	1557814	81.349	ug/L	99
105) 1,4-Dichlorobenzene	12.223	146	1537085	80.329	ug/L	99
106) p-Diethylbenzene	12.446	119	1781835	84.792	ug/L	99
107) n-Butylbenzene	12.501	91	2434485	84.104	ug/L	99
108) 1,2-Dichlorobenzene	12.647	146	1394876	81.641	ug/L	98
109) 1,2,4,5-Tetramethylben...	13.239	119	2471183	85.993	ug/L	99
110) 1,2-Dibromo-3-chloropr...	13.427	155	88195	90.377	ug/L	100
111) 1,3,5-Trichlorobenzene	13.462	180	966825	84.589	ug/L	97
112) Hexachlorobutadiene	14.047	225	330149	86.751	ug/L	99
113) 1,2,4-Trichlorobenzene	14.061	180	831023	83.238	ug/L	98
114) Naphthalene	14.353	128	1814999	81.754	ug/L	100
115) 1,2,3-Trichlorobenzene	14.527	180	698209	82.384	ug/L	98

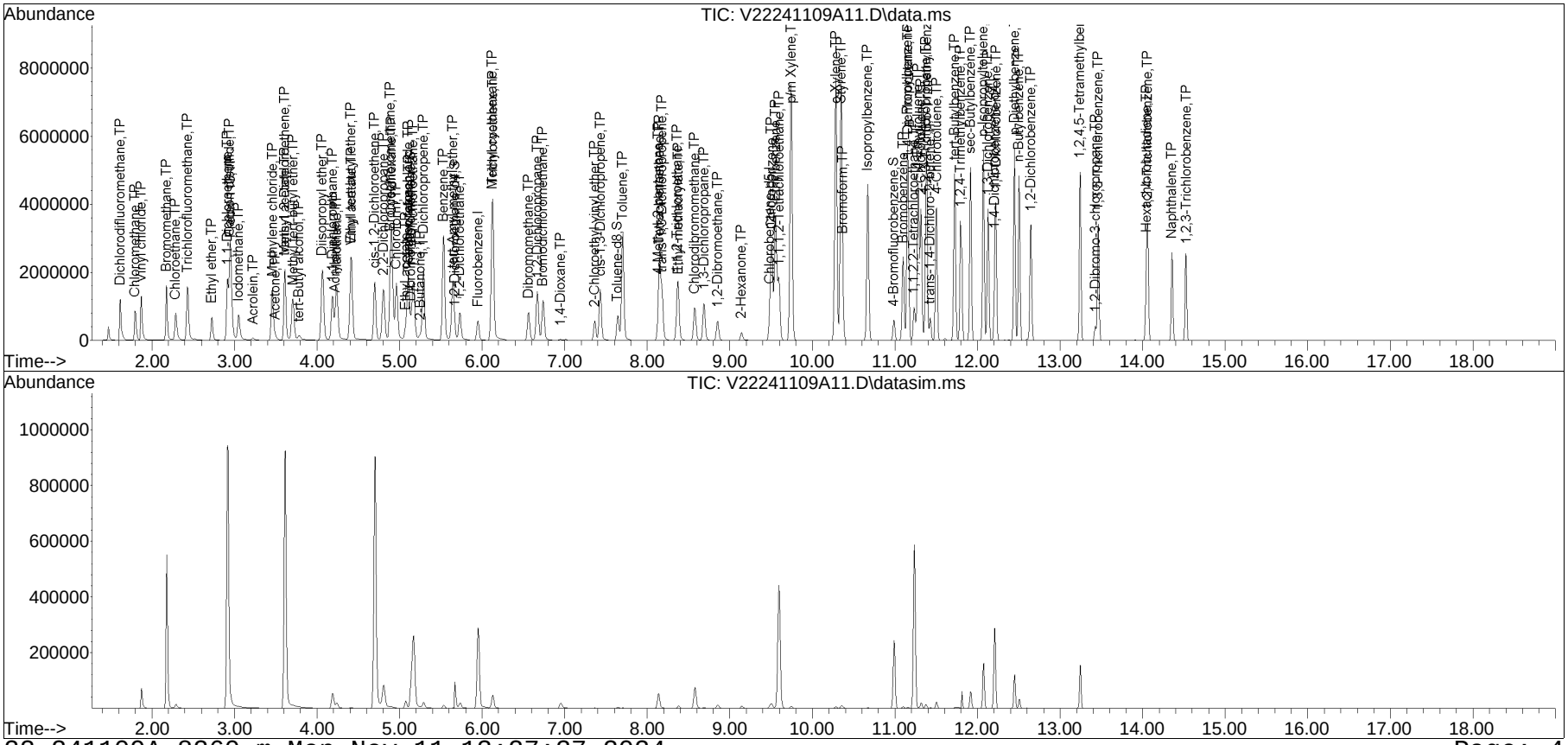
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A11.D
Acq On : 09 Nov 2024 11:01 am
Operator : VOA122:PID
Sample : I8260STD80PPB
Misc : WG1995828,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 11 12:18:59 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:18:01 2024
Response via : Initial Calibration

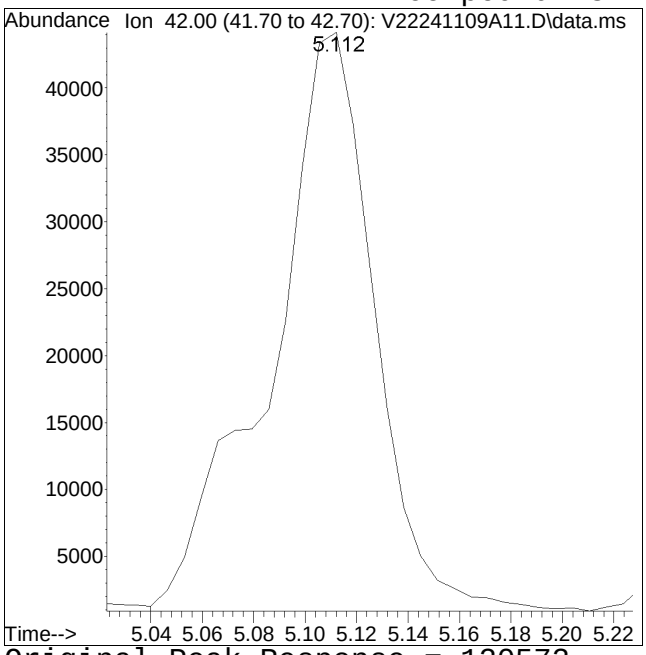
Sub List : 8260-Curve - Megamix plus DioxL\V22241109A09.D•



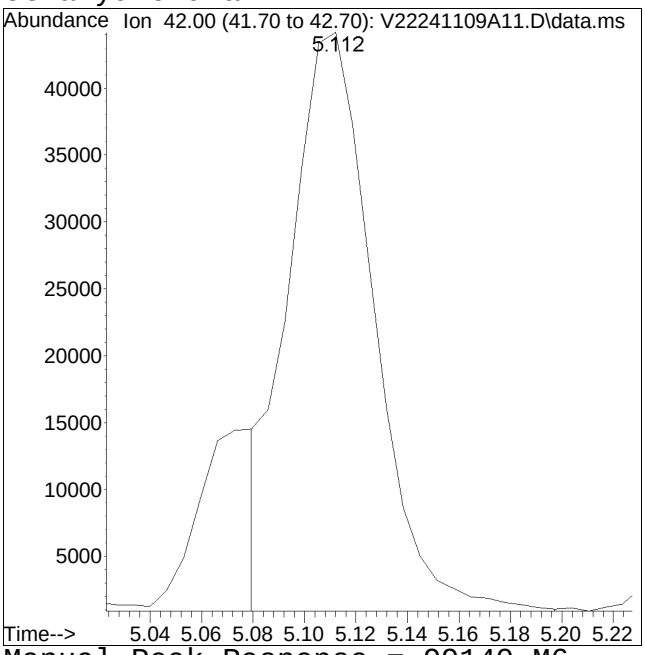
Manual Integration Report

Data Path : K:\VOA122\2024\241109A-ICAQMethod : V122_241109A_8260.m
Data File : V22241109A11.D Operator : VOA122:PID
Date Inj'd : 11/9/2024 11:01 am Instrument : VOA 122
Sample : I8260STD80PPB Quant Date : 11/11/2024 12:18 pm

Compound #37: Tetrahydrofuran



Original Peak Response = 120572



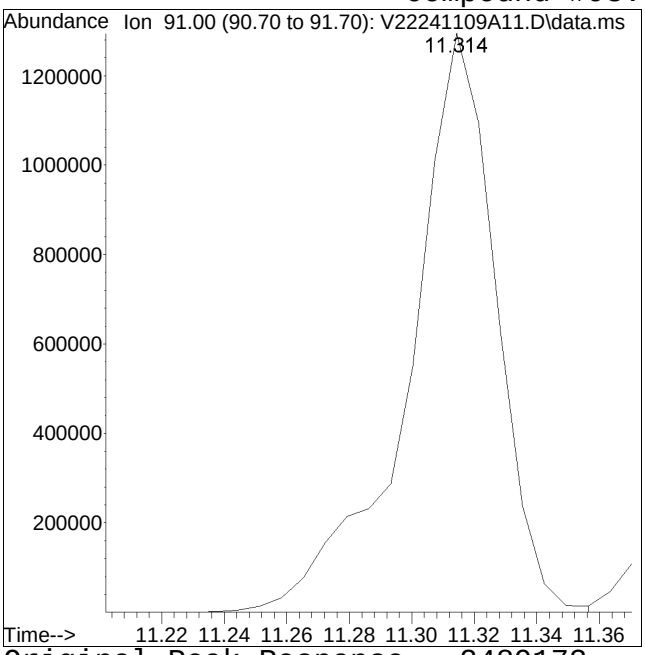
Manual Peak Response = 99140 M6

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

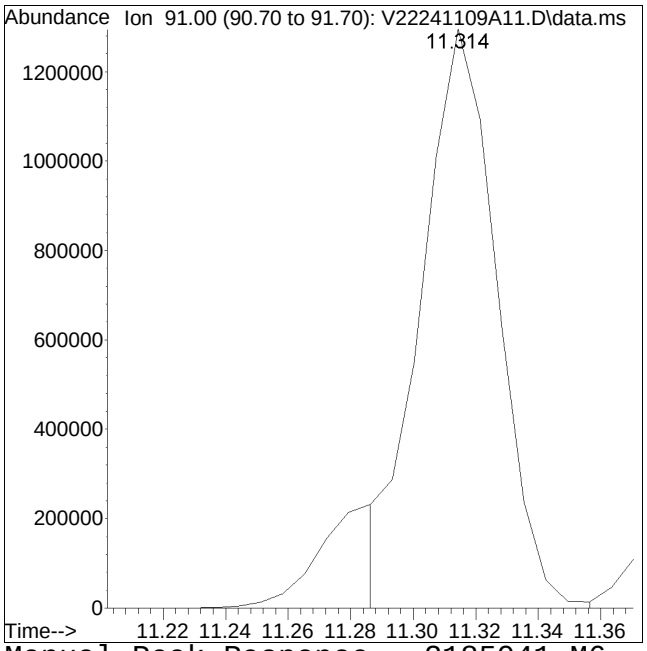
Manual Integration Report

Data Path : K:\VOA122\2024\241109A-ICAQMethod : V122_241109A_8260.m
Data File : V22241109A11.D Operator : VOA122:PID
Date Inj'd : 11/9/2024 11:01 am Instrument : VOA 122
Sample : I8260STD80PPB Quant Date : 11/11/2024 12:18 pm

Compound #93: 2-Chlorotoluene



Original Peak Response = 2489173



Manual Peak Response = 2185041 M6

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A12.D
Acq On : 09 Nov 2024 11:25 am
Operator : VOA122:PID
Sample : I8260STD120PPB
Misc : WG1995828,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 11 12:19:07 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:18:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241109A-ICAL\V22241109A09.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.950	96	611329	10.000	ug/L	0.00
Standard Area 1 = 524901			Recovery = 116.47%			
62) Chlorobenzene-d5	9.484	117	477863	10.000	ug/L	0.00
Standard Area 1 = 419733			Recovery = 113.85%			
83) 1,4-Dichlorobenzene-d4	12.209	152	269156	10.000	ug/L	0.00
Standard Area 1 = 229516			Recovery = 117.27%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.138	113	202859	9.722	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.22%			
46) 1,2-Dichloroethane-d4	5.669	65	129779	10.065	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.65%			
63) Toluene-d8	7.647	98	598959	9.941	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.41%			
87) 4-Bromofluorobenzene	10.984	95	209933	9.554	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.54%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.618	85	1443149	114.315	ug/L	97
3) Chloromethane	1.795	50	1230857	113.922	ug/L	98
4) Vinyl chloride	1.874	62	1639178	113.761	ug/L	99
5) Bromomethane	2.175	94	1145180	110.001	ug/L	99
6) Chloroethane	2.287	64	1061307	107.477	ug/L	100
7) Trichlorofluoromethane	2.431	101	1914668	116.117	ug/L	99
8) Ethyl ether	2.726	74	421991	116.263	ug/L #	1
10) 1,1-Dichloroethene	2.916	96	1024220	117.731	ug/L	91
11) Carbon disulfide	2.949	76	3138494	118.676	ug/L	99
12) Freon-113	2.955	101	1081017	118.165	ug/L	96
13) Iodomethane	3.054	142	1277958	116.809	ug/L	94
14) Acrolein	3.224	56	81190	123.195	ug/L	98
15) Methylene chloride	3.460	84	1144629	111.965	ug/L	88
17) Acetone	3.493	43	164189	111.533	ug/L	96
18) trans-1,2-Dichloroethene	3.611	96	1137215	119.082	ug/L	95
19) Methyl acetate	3.611	43	403976	112.926	ug/L	96
21) Methyl tert-butyl ether	3.709	73	2117397	126.405	ug/L	96
22) tert-Butyl alcohol	3.788	59	215329	673.098	ug/L #	87
24) Diisopropyl ether	4.063	45	3060740	124.456	ug/L	95
25) 1,1-Dichloroethane	4.187	63	2044152	118.218	ug/L	99
26) Halothane	4.240	117	922793	123.962	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A12.D
Acq On : 09 Nov 2024 11:25 am
Operator : VOA122:PID
Sample : I8260STD120PPB
Misc : WG1995828,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 11 12:19:07 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:18:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241109A-ICAL\V22241109A09.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.220	53	213542	121.544	ug/L		94
28) Ethyl tert-butyl ether	4.410	59	2801988	130.484	ug/L		94
29) Vinyl acetate	4.417	43	1952832	130.356	ug/L		95
30) cis-1,2-Dichloroethene	4.699	96	1240247	117.346	ug/L		95
31) 2,2-Dichloropropane	4.804	77	1568963	122.789	ug/L		93
32) Bromochloromethane	4.889	128	617165	116.171	ug/L		95
33) Cyclohexane	4.902	56	1983550	120.470	ug/L		92
34) Chloroform	4.961	83	2021589	116.927	ug/L		97
35) Ethyl acetate	5.072	43	610757	125.305	ug/L		98
36) Carbon tetrachloride	5.105	117	1773295	126.806	ug/L		99
37) Tetrahydrofuran	5.112	42	159277M6	123.438	ug/L		
39) 1,1,1-Trichloroethane	5.171	97	1916454	121.586	ug/L		98
41) 2-Butanone	5.249	43	250543	119.808	ug/L	#	58
42) 1,1-Dichloropropene	5.289	75	1568450	123.083	ug/L		100
44) Benzene	5.531	78	4753669	126.382	ug/L		98
45) tert-Amyl methyl ether	5.649	73	1827712	128.338	ug/L		92
47) 1,2-Dichloroethane	5.728	62	1079978	118.198	ug/L		97
50) Methyl cyclohexane	6.127	83	1732834	125.702	ug/L		94
51) Trichloroethene	6.127	95	1085327	123.995	ug/L		100
53) Dibromomethane	6.563	93	574508	123.293	ug/L		86
54) 1,2-Dichloropropane	6.667	63	938177	124.096	ug/L		99
56) 2-Chloroethyl vinyl ether	7.362	63	450590	126.219	ug/L		97
57) Bromodichloromethane	6.737	83	1329072	126.576	ug/L		100
60) 1,4-Dioxane	6.945	88	45957	1262.435	ug/L	#	84
61) cis-1,3-Dichloropropene	7.432	75	1485069	135.839	ug/L		95
64) Toluene	7.703	92	2415257	121.848	ug/L		99
65) 4-Methyl-2-pentanone	8.133	58	179236	131.437	ug/L		89
66) Tetrachloroethene	8.147	166	1153433	126.972	ug/L		96
68) trans-1,3-Dichloropropene	8.182	75	1251831	138.325	ug/L		95
70) Ethyl methacrylate	8.377	69	769254	134.830	ug/L		95
71) 1,1,2-Trichloroethane	8.363	83	588902	127.331	ug/L		98
72) Chlorodibromomethane	8.579	129	1068922	140.361	ug/L		98
73) 1,3-Dichloropropane	8.691	76	1185323	124.350	ug/L		99
74) 1,2-Dibromoethane	8.852	107	729254	128.177	ug/L		100
76) 2-Hexanone	9.140	43	288374	130.029	ug/L		96
77) Chlorobenzene	9.505	112	2771078	121.048	ug/L		89
78) Ethylbenzene	9.554	91	4797752	121.718	ug/L		99
79) 1,1,1,2-Tetrachloroethane	9.596	131	1025434	132.273	ug/L		97
80) p/m Xylene	9.743	106	4000660	246.038	ug/L		97
81) o Xylene	10.283	106	3849389	248.329	ug/L		97

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A12.D
Acq On : 09 Nov 2024 11:25 am
Operator : VOA122:PID
Sample : I8260STD120PPB
Misc : WG1995828,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 11 12:19:07 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:18:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241109A-ICAL\V22241109A09.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Styrene	10.353	104	6306026	253.027	ug/L	98
84) Bromoform	10.367	173	622304	143.441	ug/L	99
86) Isopropylbenzene	10.669	105	5009560	120.301	ug/L	99
88) Bromobenzene	11.096	156	1179611	120.717	ug/L	100
89) n-Propylbenzene	11.153	91	5866339	121.151	ug/L	98
90) 1,4-Dichlorobutane	11.160	55	991609	122.225	ug/L	99
91) 1,1,2,2-Tetrachloroethane	11.230	83	782306	120.675	ug/L	99
92) 4-Ethyltoluene	11.286	105	4864130	119.649	ug/L	97
93) 2-Chlorotoluene	11.314	91	3168551M6	115.010	ug/L	
94) 1,3,5-Trimethylbenzene	11.384	105	4268187	120.636	ug/L	98
95) 1,2,3-Trichloropropane	11.370	75	639023	123.149	ug/L	99
96) trans-1,4-Dichloro-2-b...	11.426	53	209578	128.439	ug/L	94
97) 4-Chlorotoluene	11.503	91	3392027	118.187	ug/L	96
98) tert-Butylbenzene	11.721	119	3737311	122.801	ug/L	100
101) 1,2,4-Trimethylbenzene	11.798	105	2806835	139.641	ug/L	99
102) sec-Butylbenzene	11.916	105	5194664	120.620	ug/L	98
103) p-Isopropyltoluene	12.069	119	4563981	121.106	ug/L	98
104) 1,3-Dichlorobenzene	12.125	146	2358953	118.995	ug/L	99
105) 1,4-Dichlorobenzene	12.222	146	2334340	117.845	ug/L	99
106) p-Diethylbenzene	12.445	119	2682154	123.295	ug/L	99
107) n-Butylbenzene	12.501	91	3597339	120.051	ug/L	99
108) 1,2-Dichlorobenzene	12.647	146	2111717	119.394	ug/L	98
109) 1,2,4,5-Tetramethylben...	13.246	119	3722590	125.136	ug/L	99
110) 1,2-Dibromo-3-chloropr...	13.427	155	137417	136.029	ug/L	99
111) 1,3,5-Trichlorobenzene	13.461	180	1443908	122.034	ug/L	97
112) Hexachlorobutadiene	14.046	225	498009	126.409	ug/L	99
113) 1,2,4-Trichlorobenzene	14.060	180	1253415	121.277	ug/L	98
114) Naphthalene	14.352	128	2759716	120.081	ug/L	100
115) 1,2,3-Trichlorobenzene	14.527	180	1063199	121.185	ug/L	99

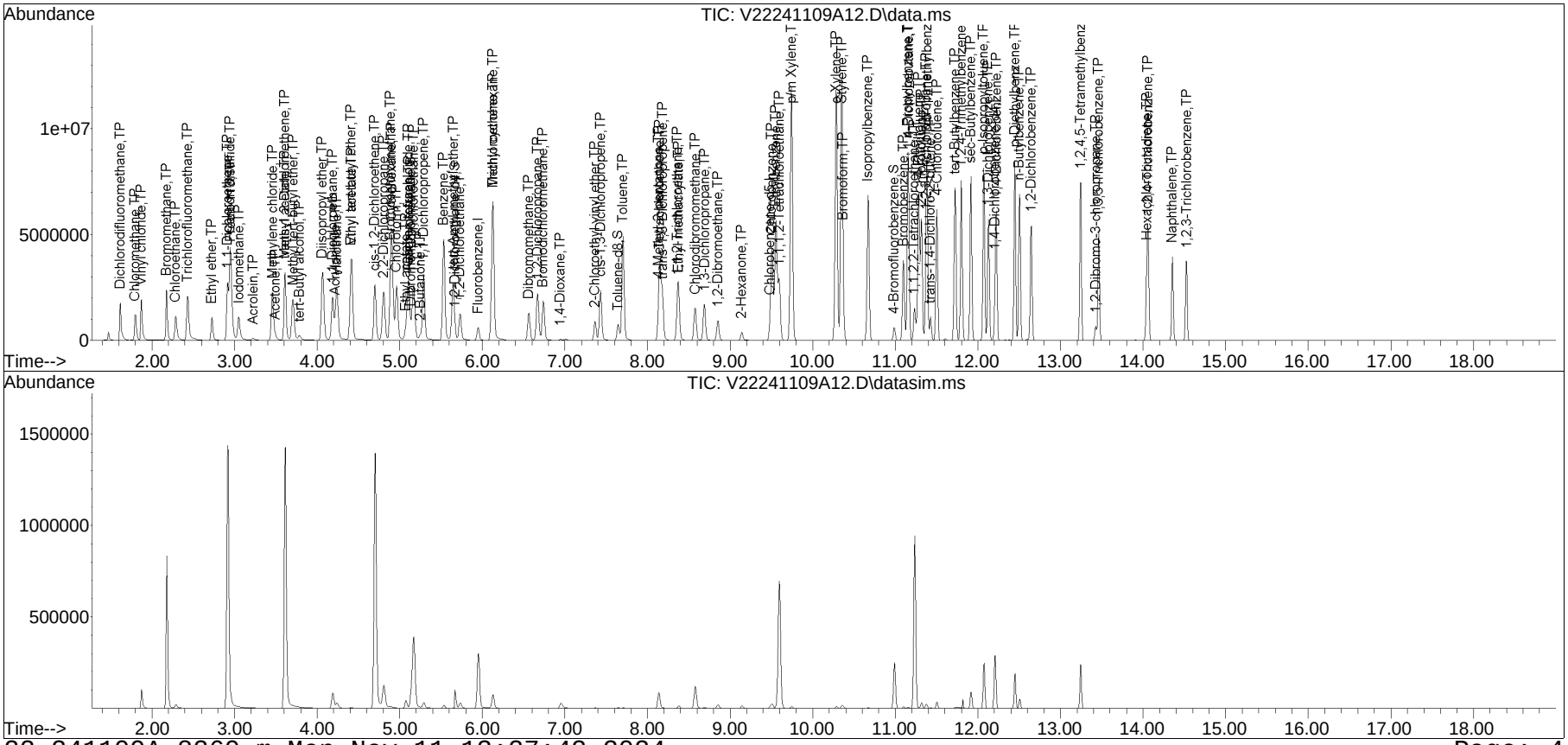
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A12.D
Acq On : 09 Nov 2024 11:25 am
Operator : VOA122:PID
Sample : I8260STD120PPB
Misc : WG1995828,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 11 12:19:07 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:18:01 2024
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus DioxL\V22241109A09.D•

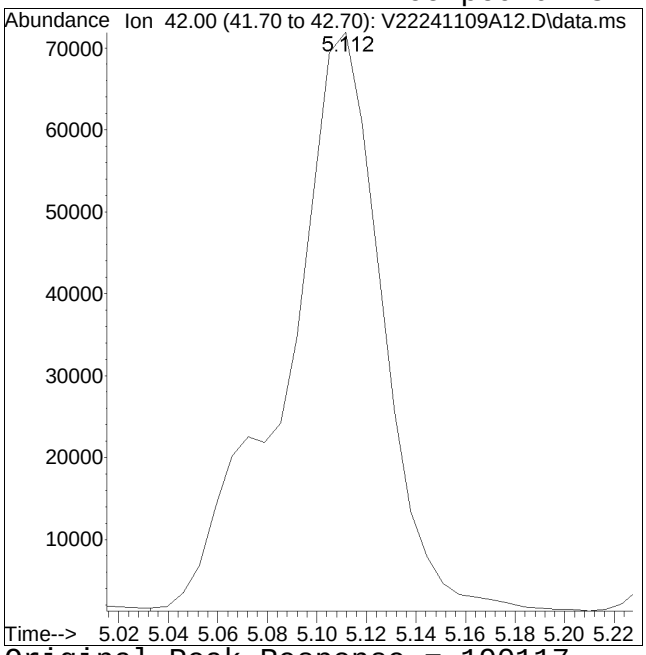


Manual Integration Report

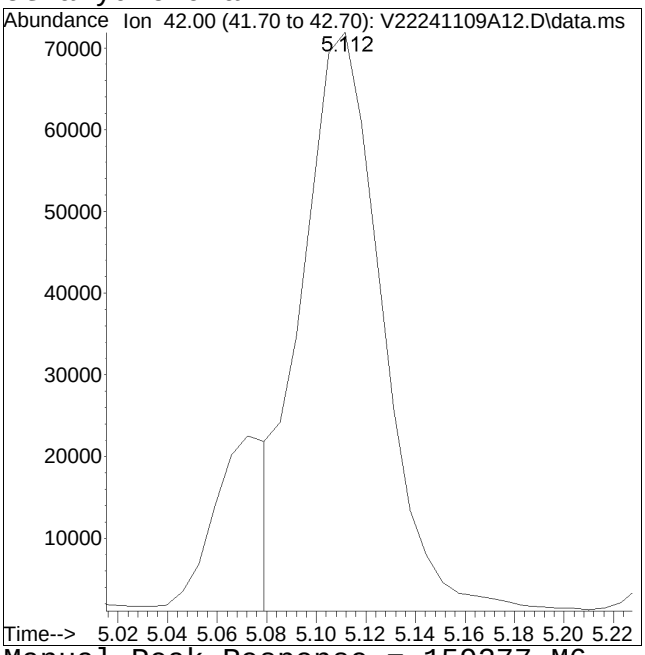
Data Path : K:\VOA122\2024\241109A-ICAQ
Data File : V22241109A12.D
Date Inj'd : 11/9/2024 11:25 am
Sample : I8260STD120PPB

Method : V122_241109A_8260.m
Operator : VOA122:PID
Instrument : VOA 122
Quant Date : 11/11/2024 12:19 pm

Compound #37: Tetrahydrofuran



Original Peak Response = 190117



Manual Peak Response = 159277 M6

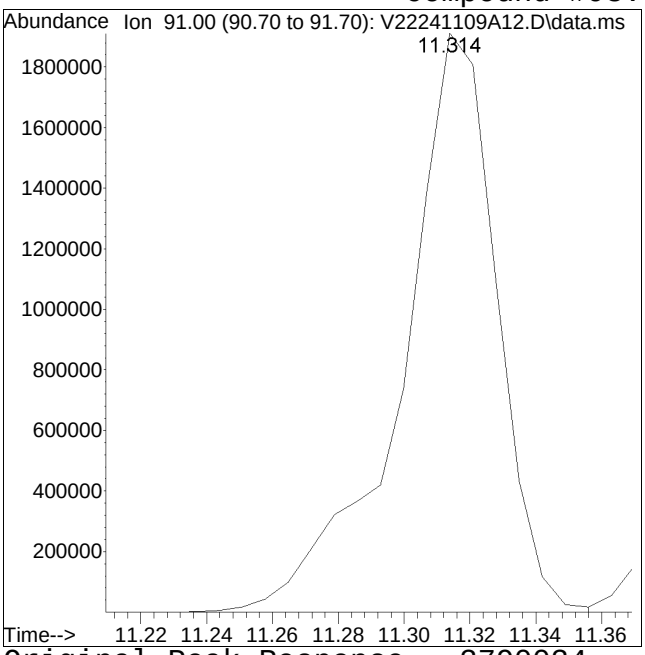
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

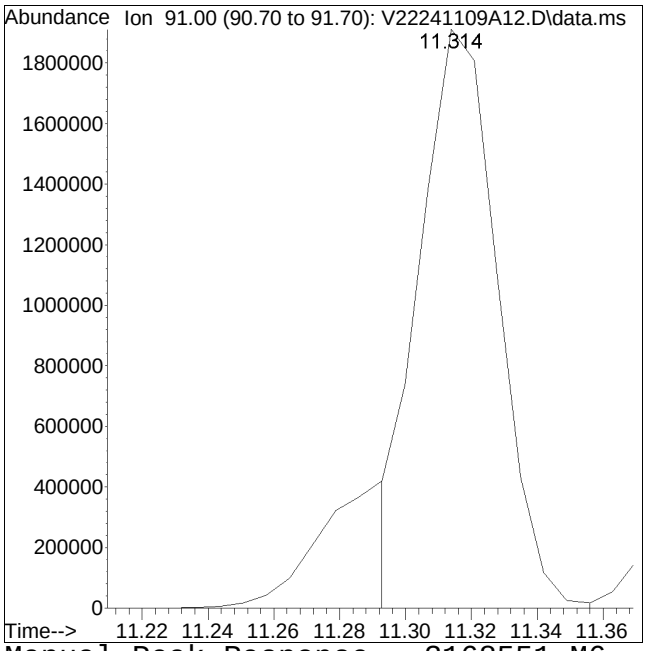
Data Path : K:\VOA122\2024\241109A-ICAQ
Data File : V22241109A12.D
Date Inj'd : 11/9/2024 11:25 am
Sample : I8260STD120PPB

Method : V122_241109A_8260.m
Operator : VOA122:PID
Instrument : VOA 122
Quant Date : 11/11/2024 12:19 pm

Compound #93: 2-Chlorotoluene



Original Peak Response = 3790034



Manual Peak Response = 3168551 M6

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A13.D
Acq On : 09 Nov 2024 11:49 am
Operator : VOA122:PID
Sample : I8260STD200PPB (Sig #1); I8260STD20PPB (Sig #2)
Misc : WG1995828,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 11 12:19:14 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:18:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241109A-ICAL\V22241109A09.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.951	96	628516	10.000	ug/L	0.00
Standard Area 1 = 524901			Recovery = 119.74%			
62) Chlorobenzene-d5	9.491	117	505269	10.000	ug/L	0.00
Standard Area 1 = 419733			Recovery = 120.38%			
83) 1,4-Dichlorobenzene-d4	12.209	152	275790	10.000	ug/L	0.00
Standard Area 1 = 229516			Recovery = 120.16%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.138	113	213002	9.929	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.29%			
46) 1,2-Dichloroethane-d4	5.669	65	137401	10.365	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.65%			
63) Toluene-d8	7.647	98	621284	9.753	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.53%			
87) 4-Bromofluorobenzene	10.991	95	217774	9.673	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.73%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.618	85	2479051	191.002	ug/L	97
3) Chloromethane	1.795	50	2077244	187.002	ug/L	98
4) Vinyl chloride	1.874	62	2732997	184.486	ug/L	99
5) Bromomethane	2.176	94	1923457	179.707	ug/L	98
6) Chloroethane	2.287	64	1748463	172.222	ug/L	100
7) Trichlorofluoromethane	2.431	101	3270199	192.902	ug/L	99
8) Ethyl ether	2.726	74	728973	195.347	ug/L #	1
10) 1,1-Dichloroethene	2.916	96	1786933	199.787	ug/L	92
11) Carbon disulfide	2.942	76	5489650	201.904	ug/L	98
12) Freon-113	2.955	101	1962528	208.655	ug/L	96
13) Iodomethane	3.047	142	2134776	189.790	ug/L	93
14) Acrolein	3.224	56	140618	207.534	ug/L	99
15) Methylene chloride	3.460	84	1960858	186.561	ug/L	89
17) Acetone	3.493	43	276643	182.784	ug/L	97
18) trans-1,2-Dichloroethene	3.611	96	1975801	201.235	ug/L	96
19) Methyl acetate	3.611	43	682980	185.697	ug/L	97
21) Methyl tert-butyl ether	3.709	73	3648838	211.874	ug/L	95
22) tert-Butyl alcohol	3.788	59	368112	1119.218	ug/L #	83
24) Diisopropyl ether	4.070	45	5280759	208.855	ug/L	95
25) 1,1-Dichloroethane	4.188	63	3498177	196.775	ug/L	99
26) Halothane	4.240	117	1621505	211.866	ug/L	99

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A13.D
Acq On : 09 Nov 2024 11:49 am
Operator : VOA122:PID
Sample : I8260STD200PPB (Sig #1); I8260STD20PPB (Sig #2)
Misc : WG1995828,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 11 12:19:14 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:18:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241109A-ICAL\V22241109A09.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.227	53	363685	201.343	ug/L		95
28) Ethyl tert-butyl ether	4.410	59	4877860	220.942	ug/L		95
29) Vinyl acetate	4.417	43	3330143	216.216	ug/L		96
30) cis-1,2-Dichloroethene	4.699	96	2133653	196.355	ug/L		94
31) 2,2-Dichloropropane	4.804	77	2707317	206.084	ug/L		94
32) Bromochloromethane	4.895	128	1059451	193.971	ug/L		95
33) Cyclohexane	4.902	56	3538558	209.036	ug/L		92
34) Chloroform	4.961	83	3488438	196.252	ug/L		97
35) Ethyl acetate	5.072	43	1038819	207.299	ug/L		98
36) Carbon tetrachloride	5.105	117	3145598	218.787	ug/L		99
37) Tetrahydrofuran	5.112	42	273499M6	206.162	ug/L		
39) 1,1,1-Trichloroethane	5.171	97	3268713	201.706	ug/L		98
41) 2-Butanone	5.249	43	428040	199.088	ug/L	#	57
42) 1,1-Dichloropropene	5.289	75	2747565	209.718	ug/L		100
44) Benzene	5.531	78	8078591	208.906	ug/L		97
45) tert-Amyl methyl ether	5.649	73	3165772	216.214	ug/L		94
47) 1,2-Dichloroethane	5.734	62	1834384	195.274	ug/L		97
50) Methyl cyclohexane	6.127	83	3179472	224.336	ug/L		95
51) Trichloroethene	6.127	95	1943976	216.020	ug/L		100
53) Dibromomethane	6.563	93	977417	204.024	ug/L		88
54) 1,2-Dichloropropane	6.667	63	1616470	207.969	ug/L		99
56) 2-Chloroethyl vinyl ether	7.369	63	772520	210.480	ug/L		98
57) Bromodichloromethane	6.737	83	2287561	211.902	ug/L		100
60) 1,4-Dioxane	6.952	88	74190	1982.263	ug/L	#	84
61) cis-1,3-Dichloropropene	7.432	75	2567899	228.463	ug/L		95
64) Toluene	7.703	92	4190173	199.925	ug/L		97
65) 4-Methyl-2-pentanone	8.134	58	307626	213.352	ug/L		91
66) Tetrachloroethene	8.148	166	2053780	213.820	ug/L		95
68) trans-1,3-Dichloropropene	8.182	75	2157018	225.418	ug/L		95
70) Ethyl methacrylate	8.377	69	1306359	216.552	ug/L		94
71) 1,1,2-Trichloroethane	8.363	83	1007134	205.949	ug/L		98
72) Chlorodibromomethane	8.579	129	1851638	229.951	ug/L		99
73) 1,3-Dichloropropane	8.691	76	1990368	197.481	ug/L		99
74) 1,2-Dibromoethane	8.853	107	1229367	204.359	ug/L		99
76) 2-Hexanone	9.140	43	480628	204.963	ug/L		97
77) Chlorobenzene	9.512	112	4791973	197.972	ug/L		89
78) Ethylbenzene	9.554	91	8165786	195.928	ug/L		97
79) 1,1,1,2-Tetrachloroethane	9.596	131	1788029	218.131	ug/L		98
80) p/m Xylene	9.743	106	7101811	413.067	ug/L		91
81) o Xylene	10.290	106	6784891	413.960	ug/L		91

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A13.D
Acq On : 09 Nov 2024 11:49 am
Operator : VOA122:PID
Sample : I8260STD200PPB (Sig #1); I8260STD20PPB (Sig #2)
Misc : WG1995828,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 11 12:19:14 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:18:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241109A-ICAL\V22241109A09.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Styrene	10.353	104	10728468	407.126	ug/L	94
84) Bromoform	10.367	173	1108354	249.330	ug/L	100
86) Isopropylbenzene	10.669	105	8553691	200.469	ug/L	97
88) Bromobenzene	11.104	156	2032756	203.021	ug/L	100
89) n-Propylbenzene	11.153	91	9878191	199.096	ug/L	95
90) 1,4-Dichlorobutane	11.160	55	1733730	208.557	ug/L	98
91) 1,1,2,2-Tetrachloroethane	11.237	83	1302360	196.063	ug/L	100
92) 4-Ethyltoluene	11.286	105	8222152	197.386	ug/L	96
93) 2-Chlorotoluene	11.321	91	5516242M6	195.409	ug/L	
94) 1,3,5-Trimethylbenzene	11.384	105	7329452	202.176	ug/L	97
95) 1,2,3-Trichloropropane	11.377	75	1096824	206.290	ug/L	99
96) trans-1,4-Dichloro-2-b...	11.426	53	340702	203.776	ug/L	99
97) 4-Chlorotoluene	11.503	91	5828139	198.183	ug/L	96
98) tert-Butylbenzene	11.728	119	6341681	203.363	ug/L	96
101) 1,2,4-Trimethylbenzene	11.812	105	3869481	187.877	ug/L	99
102) sec-Butylbenzene	11.916	105	8616923	195.272	ug/L	96
103) p-Isopropyltoluene	12.076	119	7604302	196.928	ug/L	95
104) 1,3-Dichlorobenzene	12.132	146	4048264	199.299	ug/L	98
105) 1,4-Dichlorobenzene	12.223	146	3997694	196.962	ug/L	99
106) p-Diethylbenzene	12.445	119	4595297	206.159	ug/L	98
107) n-Butylbenzene	12.508	91	6098892	198.637	ug/L	98
108) 1,2-Dichlorobenzene	12.647	146	3600927	198.695	ug/L	98
109) 1,2,4,5-Tetramethylben...	13.246	119	6255048	205.207	ug/L	97
110) 1,2-Dibromo-3-chloropr...	13.427	155	234290	226.345	ug/L	100
111) 1,3,5-Trichlorobenzene	13.462	180	2438779	201.159	ug/L	97
112) Hexachlorobutadiene	14.046	225	864454	214.145	ug/L	99
113) 1,2,4-Trichlorobenzene	14.060	180	2121390	200.322	ug/L	98
114) Naphthalene	14.360	128	4520176	191.951	ug/L	100
115) 1,2,3-Trichlorobenzene	14.527	180	1769673	196.857	ug/L	99

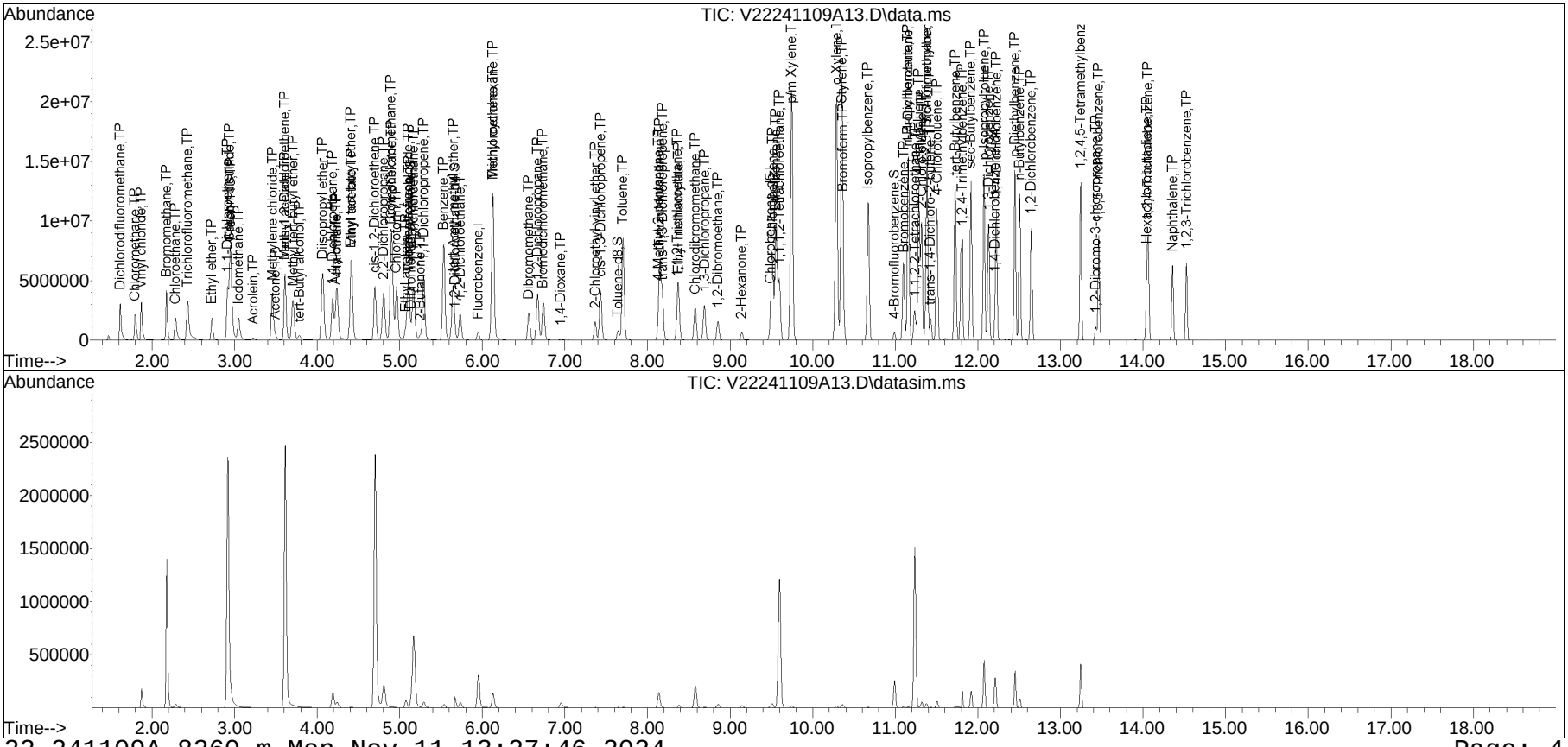
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A13.D
Acq On : 09 Nov 2024 11:49 am
Operator : VOA122:PID
Sample : I8260STD200PPB (Sig #1); I8260STD20PPB (Sig #2)
Misc : WG1995828,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 11 12:19:14 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:18:01 2024
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus DioxL\V22241109A09.D•

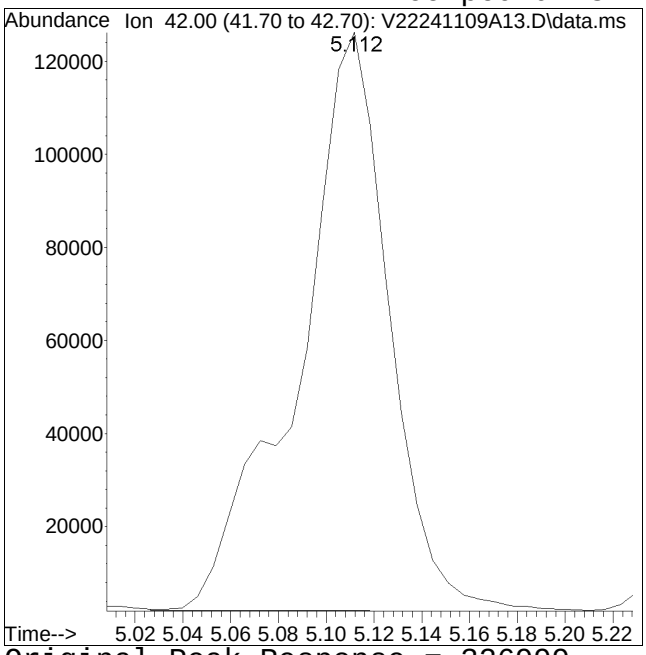


Manual Integration Report

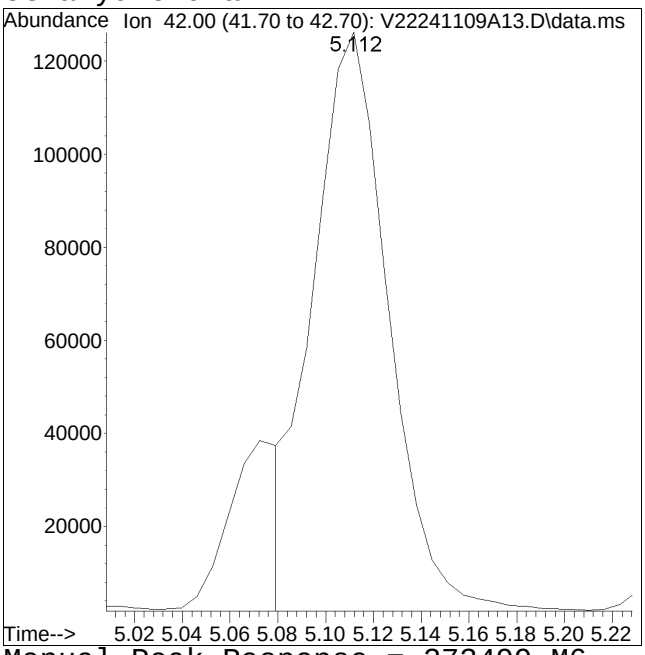
Data Path : K:\VOA122\2024\241109A-ICAQ
Data File : V22241109A13.D
Date Inj'd : 11/9/2024 11:49 am
Sample : I8260STD200PPB

Method : V122_241109A_8260.m
Operator : VOA122:PID
Instrument : VOA 122
Quant Date : 11/11/2024 12:19 pm

Compound #37: Tetrahydrofuran



Original Peak Response = 326999



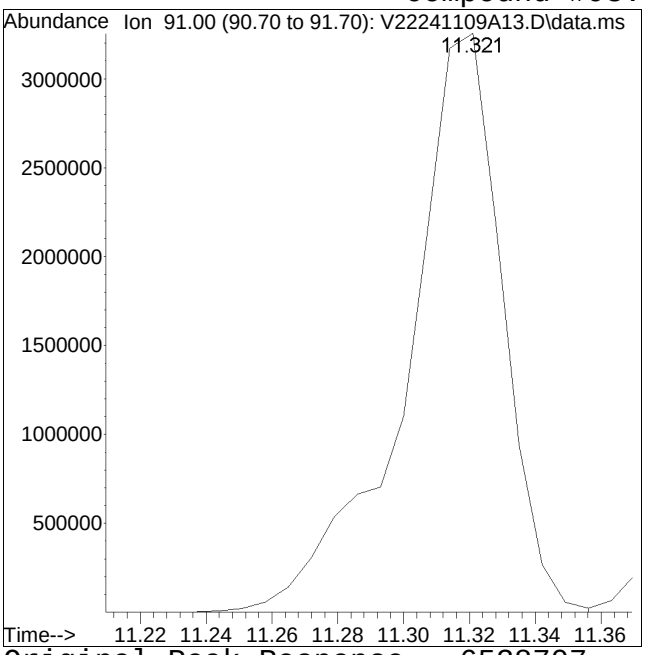
Manual Peak Response = 273499 M6

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

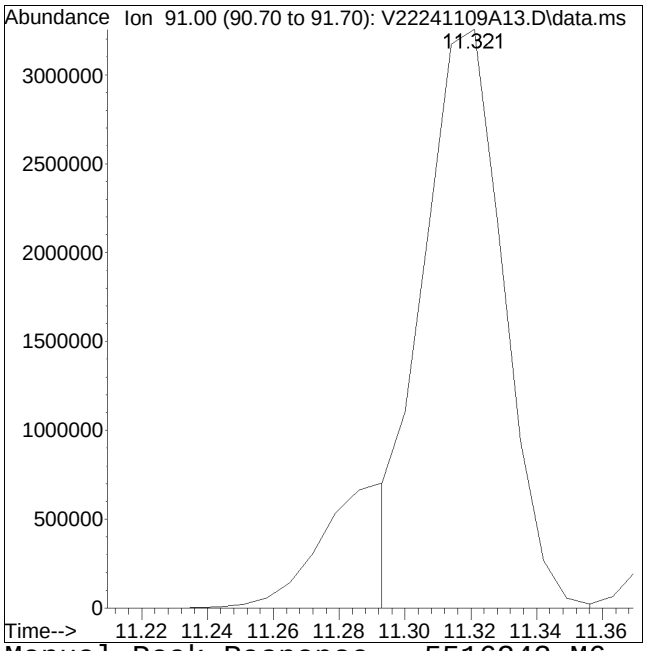
Manual Integration Report

Data Path : K:\VOA122\2024\241109A-ICAQMethod : V122_241109A_8260.m
Data File : V22241109A13.D Operator : VOA122:PID
Date Inj'd : 11/9/2024 11:49 am Instrument : VOA 122
Sample : I8260STD200PPB Quant Date : 11/11/2024 12:19 pm

Compound #93: 2-Chlorotoluene



Original Peak Response = 6538707



Manual Peak Response = 5516242 M6

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

Evaluate Continuing Calibration Report

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A18.D
Acq On : 09 Nov 2024 01:52 pm
Operator : VOA122:PID
Sample : C8260STD10PPB
Misc : WG1995828,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 11 12:29:57 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 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	Fluorobenzene	1.000	1.000	0.0	102	0.00
2	TP	Dichlorodifluoromethane	0.207	0.176	15.0	78	0.00
3	TP	Chloromethane	0.177	0.196	-10.7	106	0.00
4	TP	Vinyl chloride	0.236	0.244	-3.4	96	0.00
5	TP	Bromomethane	0.170	0.206	-21.2#	118	0.00
6	TP	Chloroethane	0.162	0.166	-2.5	98	0.00
7	TP	Trichlorofluoromethane	0.270	0.291	-7.8	100	0.00
8	TP	Ethyl ether	0.059	0.071	-20.3#	125	0.00
10	TP	1,1-Dichloroethene	0.142	0.135	4.9	90	0.00
11	TP	Carbon disulfide	0.433	0.435	-0.5	96	0.00
12	TP	Freon-113	0.150	0.157	-4.7	99	0.00
13	TP	Iodomethane	0.179	0.225	-25.7#	128	0.00
14	TP	Acrolein	0.011	0.015	-36.4#	145	0.00
15	TP	Methylene chloride	0.167	0.163	2.4	97	0.00
17	TP	Acetone	0.024	0.024	0.0	99	0.00
18	TP	trans-1,2-Dichloroethene	0.156	0.160	-2.6	99	0.00
19	TP	Methyl acetate	0.059	0.054	8.5	105	0.00
21	TP	Methyl tert-butyl ether	0.274	0.272	0.7	104	0.00
22	TP	tert-Butyl alcohol	0.00523	0.00497#	5.0	97	0.00
24	TP	Diisopropyl ether	0.402	0.401	0.2	102	0.00
25	TP	1,1-Dichloroethane	0.283	0.289#	-2.1	98	0.00
26	TP	Halothane	0.122	0.126	-3.3	102	0.00
27	TP	Acrylonitrile	0.029	0.032	-10.3	111	0.00
28	TP	Ethyl tert-butyl ether	0.351	0.338	3.7	102	0.00
29	TP	Vinyl acetate	0.245	0.219	10.6	95	0.00
30	TP	cis-1,2-Dichloroethene	0.173	0.173#	0.0	97	0.00
31	TP	2,2-Dichloropropane	0.209	0.188	10.0	91	0.00
32	TP	Bromochloromethane	0.087	0.086#	1.1	97	0.00
33	TP	Cyclohexane	0.269	0.269	0.0	99	0.00
34	TP	Chloroform	0.283	0.285#	-0.7	99	0.00
35	TP	Ethyl acetate	0.080	0.074	7.5	102	0.00
36	TP	Carbon tetrachloride	0.229	0.228	0.4	97	0.00
37	TP	Tetrahydrofuran	0.021	0.021	0.0	100	0.00
38	S	Dibromofluoromethane	0.341	0.344	-0.9	101	0.00
39	TP	1,1,1-Trichloroethane	0.258	0.262	-1.6	99	0.00
41	TP	2-Butanone	0.034	0.032	5.9	101	0.00
42	TP	1,1-Dichloropropene	0.208	0.212	-1.9	101	0.00
44	TP	Benzene	0.615	0.631	-2.6	97	0.00
45	TP	tert-Amyl methyl ether	0.233	0.219	6.0	99	0.00

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A18.D
Acq On : 09 Nov 2024 01:52 pm
Operator : VOA122:PID
Sample : C8260STD10PPB
Misc : WG1995828,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 11 12:29:57 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 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)
46	S	1,2-Dichloroethane-d4	0.211	0.206	2.4	100	-0.02
47	T	1,2-Dichloroethane	0.149	0.151	-1.3	99	0.00
50	TP	Methyl cyclohexane	0.225	0.215	4.4	96	0.00
51	TP	Trichloroethene	0.143	0.138#	3.5	101	0.00
53	TP	Dibromomethane	0.076	0.078	-2.6	100	0.00
54	TP	1,2-Dichloropropane	0.124	0.126#	-1.6	101	0.00
56	TP	2-Chloroethyl vinyl ether	0.058	0.054	6.9	95	0.00
57	TP	Bromodichloromethane	0.172	0.167#	2.9	97	0.00
60	TP	1,4-Dioxane	0.00060	0.00060#	0.0	98	0.00
61	TP	cis-1,3-Dichloropropene	0.179	0.181#	-1.1	98	0.00
62	I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00
63	S	Toluene-d8	1.261	1.265	-0.3	101	0.00
64	TP	Toluene	0.415	0.416	-0.2	99	0.00
65	TP	4-Methyl-2-pentanone	0.029	0.027#	6.9	103	0.00
66	TP	Tetrachloroethene	0.190	0.191	-0.5	99	0.00
68	TP	trans-1,3-Dichloropropene	0.189	0.189#	0.0	100	0.00
70	TP	Ethyl methacrylate	0.119	0.136	-14.3	112	0.00
71	TP	1,1,2-Trichloroethane	0.097	0.095#	2.1	97	0.00
72	TP	Chlorodibromomethane	0.159	0.144#	9.4	96	0.00
73	TP	1,3-Dichloropropane	0.199	0.199	0.0	99	0.00
74	TP	1,2-Dibromoethane	0.119	0.118#	0.8	100	0.00
76	TP	2-Hexanone	0.046	0.047	-2.2	103	0.00
77	TP	Chlorobenzene	0.479	0.488	-1.9	100	0.00
78	TP	Ethylbenzene	0.825	0.833	-1.0	99	0.00
79	TP	1,1,1,2-Tetrachloroethane	0.162	0.159	1.9	99	0.00
80	TP	p/m Xylene	0.340	0.342	-0.6	99	0.00
81	TP	o Xylene	0.324	0.334	-3.1	102	0.00
82	TP	Styrene	0.522	0.540	-3.4	102	0.00
83	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
84	TP	Bromoform	* 10.000	8.835	11.6	99	0.00
86	TP	Isopropylbenzene	1.547	1.579	-2.1	98	0.00
87	S	4-Bromofluorobenzene	0.816	0.831	-1.8	102	0.00
88	TP	Bromobenzene	0.363	0.373	-2.8	102	0.00
89	TP	n-Propylbenzene	1.799	1.880	-4.5	100	0.00
90	TP	1,4-Dichlorobutane	0.301	0.336	-11.6	113	0.00
91	TP	1,1,2,2-Tetrachloroethane	0.241	0.231	4.1	97	0.00
92	TP	4-Ethyltoluene	1.510	1.641	-8.7	105	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A18.D
Acq On : 09 Nov 2024 01:52 pm
Operator : VOA122:PID
Sample : C8260STD10PPB
Misc : WG1995828,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 11 12:29:57 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 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)
93 TP	2-Chlorotoluene	1.024	1.088	-6.3	103	0.00
94 TP	1,3,5-Trimethylbenzene	1.315	1.321	-0.5	98	0.00
95 TP	1,2,3-Trichloropropane	0.193	0.191	1.0	101	0.00
96 TP	trans-1,4-Dichloro-2-butene	0.061	0.065	-6.6	108	0.00
97 TP	4-Chlorotoluene	1.066	1.105	-3.7	102	0.00
98 TP	tert-Butylbenzene	1.131	1.153	-1.9	98	0.00
101 TP	1,2,4-Trimethylbenzene	0.747	0.757	-1.3	100	0.00
102 TP	sec-Butylbenzene	1.600	1.644	-2.7	98	0.00
103 TP	p-Isopropyltoluene	1.400	1.447	-3.4	99	0.00
104 TP	1,3-Dichlorobenzene	0.737	0.752	-2.0	101	0.00
105 TP	1,4-Dichlorobenzene	0.736	0.749	-1.8	102	0.00
106 TP	p-Diethylbenzene	0.808	0.808	0.0	98	0.00
107 TP	n-Butylbenzene	1.113	1.195	-7.4	102	0.00
108 TP	1,2-Dichlorobenzene	0.657	0.680	-3.5	102	0.00
109 TP	1,2,4,5-Tetramethylbenzene	1.105	1.133	-2.5	99	0.00
110 TP	1,2-Dibromo-3-chloropropane	0.038	0.037	2.6	100	0.00
111 TP	1,3,5-Trichlorobenzene	0.440	0.447	-1.6	99	0.00
112 TP	Hexachlorobutadiene	0.146	0.146	0.0	101	0.00
113 TP	1,2,4-Trichlorobenzene	0.384	0.384#	0.0	100	0.00
114 TP	Naphthalene	0.854	0.868	-1.6	98	0.00
115 TP	1,2,3-Trichlorobenzene	0.326	0.330#	-1.2	100	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 17 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A18.D
Acq On : 09 Nov 2024 01:52 pm
Operator : VOA122:PID
Sample : C8260STD10PPB
Misc : WG1995828,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 11 12:29:57 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241109A-ICAL\V22241109A09.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.951	96	537842	10.000	ug/L	0.00
Standard Area 1 = 524901			Recovery = 102.47%			
62) Chlorobenzene-d5	9.484	117	427073	10.000	ug/L	0.00
Standard Area 1 = 419733			Recovery = 101.75%			
83) 1,4-Dichlorobenzene-d4	12.202	152	236053	10.000	ug/L	0.00
Standard Area 1 = 229516			Recovery = 102.85%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.138	113	185216	10.090	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.90%			
46) 1,2-Dichloroethane-d4	5.649	65	110682	9.757	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.57%			
63) Toluene-d8	7.640	98	540366	10.036	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.36%			
87) 4-Bromofluorobenzene	10.984	95	196134	10.178	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.78%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.618	85	94610	8.518	ug/L	98
3) Chloromethane	1.795	50	105482	11.097	ug/L	99
4) Vinyl chloride	1.874	62	131407	10.366	ug/L	99
5) Bromomethane	2.176	94	110940	12.112	ug/L	98
6) Chloroethane	2.294	64	89210	10.269	ug/L	99
7) Trichlorofluoromethane	2.431	101	156283	10.773	ug/L	98
8) Ethyl ether	2.726	74	38305	11.995	ug/L #	1
10) 1,1-Dichloroethene	2.916	96	72847	9.518	ug/L	90
11) Carbon disulfide	2.949	76	234116	10.062	ug/L	100
12) Freon-113	2.956	101	84452	10.493	ug/L	95
13) Iodomethane	3.054	142	120948	12.566	ug/L	94
14) Acrolein	3.224	56	7895	13.616	ug/L	95
15) Methylene chloride	3.460	84	87492	9.728	ug/L	88
17) Acetone	3.493	43	13101	10.115	ug/L	99
18) trans-1,2-Dichloroethene	3.611	96	86097	10.247	ug/L	94
19) Methyl acetate	3.611	43	29031	9.224	ug/L	97
21) Methyl tert-butyl ether	3.703	73	146297	9.927	ug/L #	92
22) tert-Butyl alcohol	3.781	59	13353	47.443	ug/L #	85
24) Diisopropyl ether	4.063	45	215902	9.979	ug/L	94
25) 1,1-Dichloroethane	4.188	63	155442	10.218	ug/L	98
26) Halothane	4.234	117	67616	10.324	ug/L	98

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A18.D
Acq On : 09 Nov 2024 01:52 pm
Operator : VOA122:PID
Sample : C8260STD10PPB
Misc : WG1995828,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 11 12:29:57 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241109A-ICAL\V22241109A09.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.220	53	17076	11.047	ug/L		96
28) Ethyl tert-butyl ether	4.411	59	181804	9.623	ug/L		97
29) Vinyl acetate	4.417	43	117773	8.936	ug/L	#	94
30) cis-1,2-Dichloroethene	4.699	96	93047	10.007	ug/L		94
31) 2,2-Dichloropropane	4.804	77	101249	9.007	ug/L		89
32) Bromochloromethane	4.889	128	46002	9.842	ug/L		92
33) Cyclohexane	4.902	56	144921	10.004	ug/L		93
34) Chloroform	4.961	83	153410	10.086	ug/L		97
35) Ethyl acetate	5.072	43	39686	9.255	ug/L		99
36) Carbon tetrachloride	5.105	117	122563	9.962	ug/L		97
37) Tetrahydrofuran	5.112	42	11280M6	9.936	ug/L		
39) 1,1,1-Trichloroethane	5.164	97	140913	10.161	ug/L		97
41) 2-Butanone	5.249	43	17334	9.422	ug/L	#	53
42) 1,1-Dichloropropene	5.289	75	113843	10.154	ug/L		99
44) Benzene	5.531	78	339303	10.253	ug/L		97
45) tert-Amyl methyl ether	5.643	73	117850	9.406	ug/L	#	87
47) 1,2-Dichloroethane	5.728	62	81198	10.101	ug/L		98
50) Methyl cyclohexane	6.121	83	115630	9.534	ug/L		92
51) Trichloroethene	6.127	95	74454	9.668	ug/L		96
53) Dibromomethane	6.563	93	41789	10.194	ug/L	#	85
54) 1,2-Dichloropropane	6.667	63	67994	10.223	ug/L		98
56) 2-Chloroethyl vinyl ether	7.362	63	29195	9.295	ug/L		96
57) Bromodichloromethane	6.737	83	89711	9.711	ug/L		100
60) 1,4-Dioxane	6.945	88	16068	501.694	ug/L	#	87
61) cis-1,3-Dichloropropene	7.432	75	97276	10.114	ug/L		94
64) Toluene	7.703	92	177589	10.025	ug/L		100
65) 4-Methyl-2-pentanone	8.134	58	11495	9.432	ug/L		84
66) Tetrachloroethene	8.148	166	81603	10.051	ug/L		94
68) trans-1,3-Dichloropropene	8.175	75	80847	9.996	ug/L		94
70) Ethyl methacrylate	8.377	69	58065	11.388	ug/L		99
71) 1,1,2-Trichloroethane	8.363	83	40476	9.792	ug/L		97
72) Chlorodibromomethane	8.572	129	61341	9.013	ug/L		97
73) 1,3-Dichloropropane	8.684	76	84809	9.955	ug/L		100
74) 1,2-Dibromoethane	8.853	107	50494	9.931	ug/L		100
76) 2-Hexanone	9.140	43	20099	10.141	ug/L		91
77) Chlorobenzene	9.505	112	208346	10.183	ug/L		91
78) Ethylbenzene	9.554	91	355704	10.097	ug/L		99
79) 1,1,1,2-Tetrachloroethane	9.589	131	67768	9.781	ug/L		98
80) p/m Xylene	9.736	106	291895	20.086	ug/L		99
81) o Xylene	10.283	106	284888	20.564	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A18.D
Acq On : 09 Nov 2024 01:52 pm
Operator : VOA122:PID
Sample : C8260STD10PPB
Misc : WG1995828,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 11 12:29:57 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241109A-ICAL\V22241109A09.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
82) Styrene	10.346	104	460939	20.695	ug/L		100
84) Bromoform	10.360	173	34070	8.835	ug/L		98
86) Isopropylbenzene	10.669	105	372838	10.209	ug/L		100
88) Bromobenzene	11.097	156	88060	10.276	ug/L		98
89) n-Propylbenzene	11.153	91	443698	10.448	ug/L		100
90) 1,4-Dichlorobutane	11.160	55	79256	11.139	ug/L		98
91) 1,1,2,2-Tetrachloroethane	11.230	83	54618	9.607	ug/L		100
92) 4-Ethyltoluene	11.279	105	387354	10.864	ug/L		99
93) 2-Chlorotoluene	11.314	91	256934M6	10.634	ug/L		
94) 1,3,5-Trimethylbenzene	11.377	105	311890	10.051	ug/L		100
95) 1,2,3-Trichloropropane	11.370	75	44974	9.883	ug/L		98
96) trans-1,4-Dichloro-2-b...	11.426	53	15302	10.693	ug/L	#	74
97) 4-Chlorotoluene	11.496	91	260924	10.366	ug/L		98
98) tert-Butylbenzene	11.721	119	272147	10.196	ug/L		99
101) 1,2,4-Trimethylbenzene	11.791	105	178803	10.143	ug/L		99
102) sec-Butylbenzene	11.916	105	388084	10.275	ug/L		100
103) p-Isopropyltoluene	12.069	119	341458	10.331	ug/L		100
104) 1,3-Dichlorobenzene	12.125	146	177431	10.205	ug/L		99
105) 1,4-Dichlorobenzene	12.223	146	176730	10.173	ug/L		98
106) p-Diethylbenzene	12.445	119	190749	9.998	ug/L		100
107) n-Butylbenzene	12.501	91	282057	10.733	ug/L		99
108) 1,2-Dichlorobenzene	12.647	146	160422	10.342	ug/L		98
109) 1,2,4,5-Tetramethylben...	13.246	119	267403	10.249	ug/L		99
110) 1,2-Dibromo-3-chloropr...	13.427	155	8683	9.801	ug/L		99
111) 1,3,5-Trichlorobenzene	13.462	180	105428	10.160	ug/L		97
112) Hexachlorobutadiene	14.046	225	34452	9.971	ug/L		98
113) 1,2,4-Trichlorobenzene	14.060	180	90750	10.012	ug/L		98
114) Naphthalene	14.353	128	204922	10.167	ug/L		100
115) 1,2,3-Trichlorobenzene	14.527	180	77789	10.110	ug/L		99

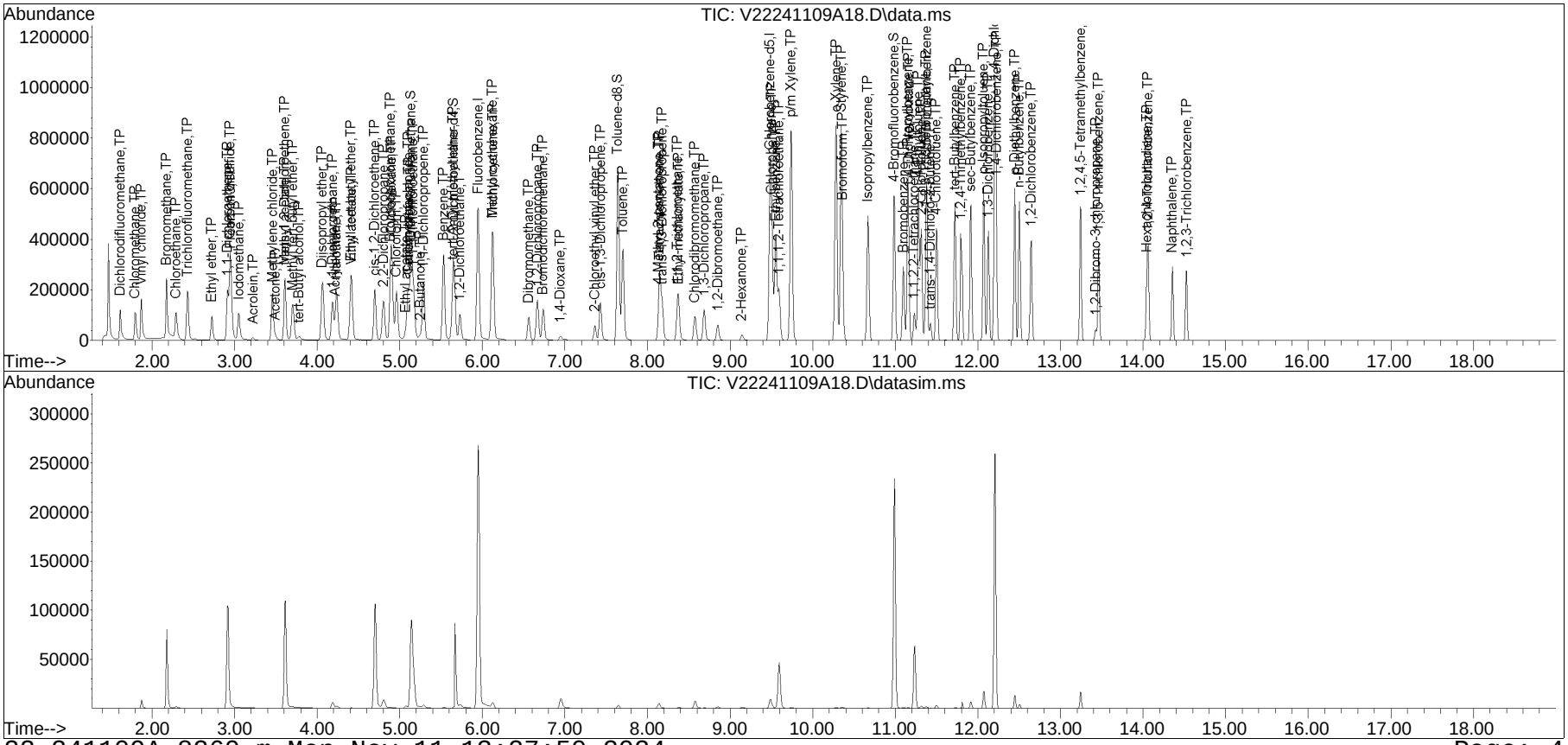
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241109A-ICAL\
Data File : V22241109A18.D
Acq On : 09 Nov 2024 01:52 pm
Operator : VOA122:PID
Sample : C8260STD10PPB
Misc : WG1995828,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 11 12:29:57 2024
Quant Method : K:\VOA122\2024\241109A-ICAL\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus DioxL\V22241109A09.D•

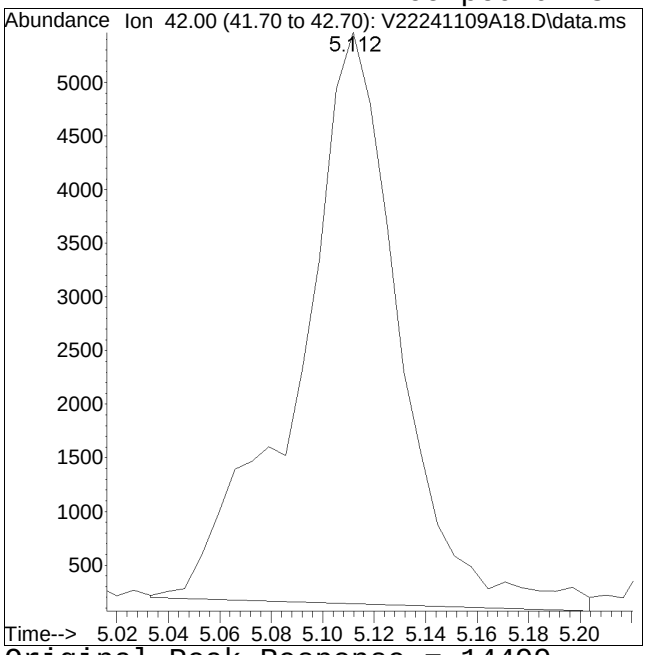


Manual Integration Report

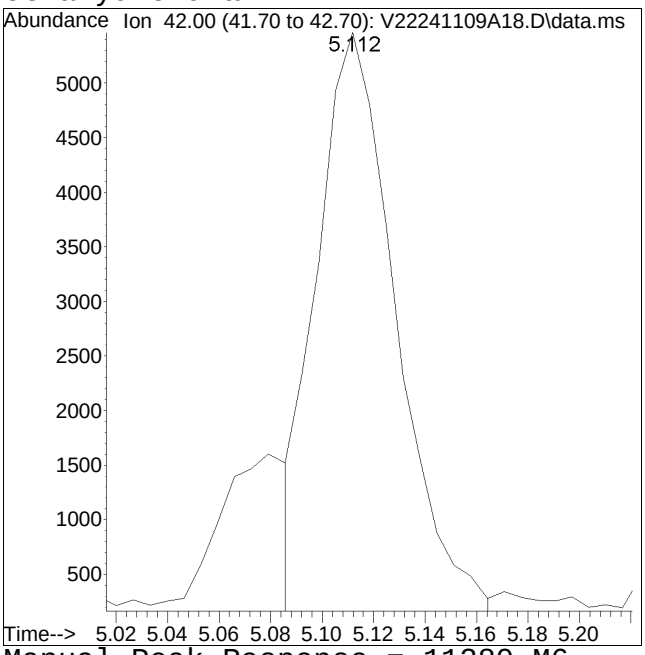
Data Path : K:\VOA122\2024\241109A-ICAQ
Data File : V22241109A18.D
Date Inj'd : 11/9/2024 1:52 pm
Sample : C8260STD10PPB

Method : V122_241109A_8260.m
Operator : VOA122:PID
Instrument : VOA 122
Quant Date : 11/11/2024 12:28 pm

Compound #37: Tetrahydrofuran



Original Peak Response = 14499



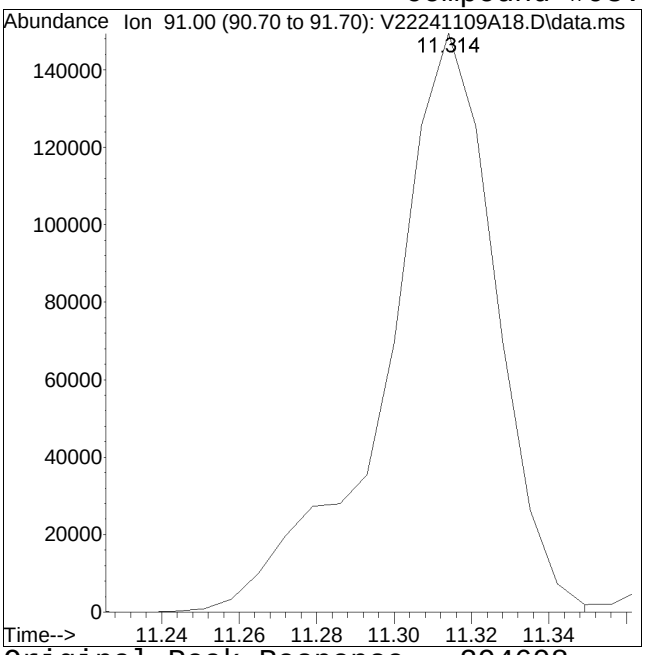
Manual Peak Response = 11280 M6

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

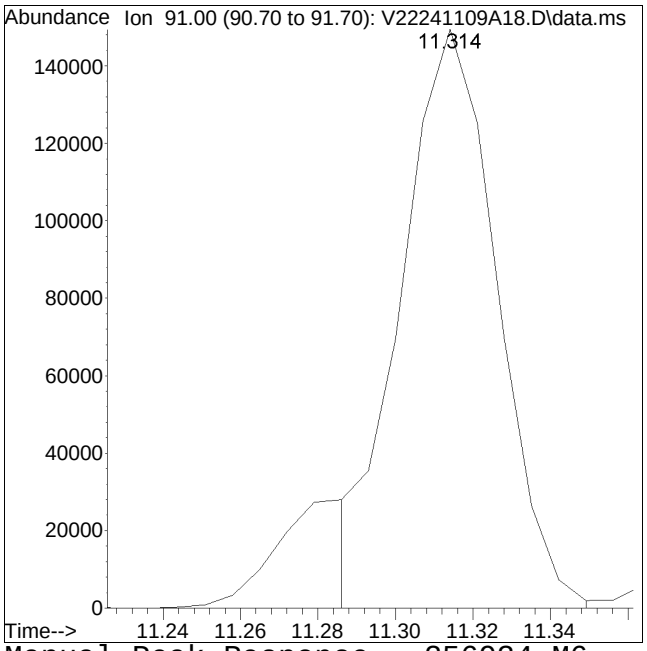
Manual Integration Report

Data Path : K:\VOA122\2024\241109A-ICAQMethod : V122_241109A_8260.m
Data File : V22241109A18.D Operator : VOA122:PID
Date Inj'd : 11/9/2024 1:52 pm Instrument : VOA 122
Sample : C8260STD10PPB Quant Date : 11/11/2024 12:28 pm

Compound #93: 2-Chlorotoluene



Original Peak Response = 294608



Manual Peak Response = 256934 M6

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

Evaluate Relative Error Report VOA 122

Method Path : K:\VOA122\2024\241109A-ICAL\
Method File : V122_241109A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Nov 11 12:28:19 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
84	TP Bromoform	Q	ug/L	10.0	9.128	-8.7	0.50	0.580	16.0

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
84	TP Bromoform	Quadratic	0.999586	0.001798	0.166859	-0.00448563

Continuing Calibration

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: VOA122	**Calibration Date**	: 12/18/24 07:54		
Lab File ID	: V22241218A02	**Init. Calib. Date(s)**	: 11/09/24	11/09/24	
Sample No	: WG2010821-2	**Init. Calib. Times**	: 07:44	11:49	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	93	0
Dichlorodifluoromethane	0.207	0.132	-	36.2*	20	53	0
Chloromethane	0.177	0.15	-	15.3	20	74	0
Vinyl chloride	0.236	0.169	-	28.4*	20	60	0
Bromomethane	0.17	0.048	-	71.8*	20	25	0
Chloroethane	0.162	0.103	-	36.4*	20	55	0
Trichlorofluoromethane	0.27	0.244	-	9.6	20	77	0
Ethyl ether	0.059	0.054	-	8.5	20	87	0
1,1-Dichloroethene	0.142	0.14	-	1.4	20	85	0
Carbon disulfide	0.433	0.428	-	1.2	20	85	0
Freon-113	0.15	0.147	-	2	20	84	0
Iodomethane	0.179	0.046	-	74.3*	20	24	0
Acrolein	0.011	0.015	-	-36.4*	20	130	0
Methylene chloride	0.167	0.162	-	3	20	88	0
Acetone	0.024	0.023	-	4.2	20	85	0
trans-1,2-Dichloroethene	0.156	0.154	-	1.3	20	87	0
Methyl acetate	0.059	0.053	-	10.2	20	94	0
Methyl tert-butyl ether	0.274	0.24	-	12.4	20	83	0
tert-Butyl alcohol	0.00523	0.00433*	-	17.2	20	76	0
Diisopropyl ether	0.402	0.397	-	1.2	20	92	0
1,1-Dichloroethane	0.283	0.27*	-	4.6	20	83	0
Halothane	0.122	0.121	-	0.8	20	89	0
Acrylonitrile	0.029	0.029	-	0	20	91	0
Ethyl tert-butyl ether	0.351	0.293	-	16.5	20	80	0
Vinyl acetate	0.245	0.219	-	10.6	20	86	0
cis-1,2-Dichloroethene	0.173	0.168*	-	2.9	20	86	0
2,2-Dichloropropane	0.209	0.201	-	3.8	20	89	0
Bromochloromethane	0.087	0.082*	-	5.7	20	84	0
Cyclohexane	0.269	0.255	-	5.2	20	85	0
Chloroform	0.283	0.263*	-	7.1	20	83	0
Ethyl acetate	0.08	0.073	-	8.8	20	91	0
Carbon tetrachloride	0.229	0.221	-	3.5	20	85	0
Tetrahydrofuran	0.021	0.024	-	-14.3	20	103	-.01
Dibromofluoromethane	0.341	0.354	-	-3.8	20	95	0
1,1,1-Trichloroethane	0.258	0.242	-	6.2	20	83	0
2-Butanone	0.034	0.038	-	-11.8	20	108	0
1,1-Dichloropropene	0.208	0.19	-	8.7	20	82	0
Benzene	0.615	0.551	-	10.4	20	77	0
tert-Amyl methyl ether	0.233	0.202	-	13.3	20	83	0
1,2-Dichloroethane-d4	0.211	0.216	-	-2.4	20	95	-.02
1,2-Dichloroethane	0.149	0.134	-	10.1	20	80	0
Methyl cyclohexane	0.225	0.196	-	12.9	20	80	0
Trichloroethene	0.143	0.125*	-	12.6	20	83	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: VOA122	**Calibration Date**	: 12/18/24 07:54		
Lab File ID	: V22241218A02	**Init. Calib. Date(s)**	: 11/09/24	11/09/24	
Sample No	: WG2010821-2	**Init. Calib. Times**	: 07:44	11:49	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Dibromomethane	0.076	0.071	-	6.6	20	83	0
1,2-Dichloropropane	0.124	0.115*	-	7.3	20	83	0
Bromodichloromethane	0.172	0.156*	-	9.3	20	82	0
1,4-Dioxane	0.0006	0.00053*	-	11.7	20	79	-.01
cis-1,3-Dichloropropene	0.179	0.156*	-	12.8	20	77	0
Chlorobenzene-d5	1	1	-	0	20	95	0
Toluene-d8	1.261	1.266	-	-0.4	20	95	0
Toluene	0.415	0.386	-	7	20	86	0
4-Methyl-2-pentanone	0.029	0.02*	-	31*	20	71	0
Tetrachloroethene	0.19	0.173	-	8.9	20	84	0
trans-1,3-Dichloropropene	0.189	0.155*	-	18	20	77	0
Ethyl methacrylate	0.119	0.082	-	31.1*	20	63	0
1,1,2-Trichloroethane	0.097	0.081*	-	16.5	20	78	0
Chlorodibromomethane	0.159	0.127*	-	20.1*	20	80	0
1,3-Dichloropropane	0.199	0.17	-	14.6	20	79	0
1,2-Dibromoethane	0.119	0.1*	-	16	20	79	0
2-Hexanone	0.046	0.037	-	19.6	20	76	0
Chlorobenzene	0.479	0.446	-	6.9	20	86	0
Ethylbenzene	0.825	0.757	-	8.2	20	84	0
1,1,1,2-Tetrachloroethane	0.162	0.134	-	17.3	20	79	0
p/m Xylene	0.34	0.296	-	12.9	20	81	0
o Xylene	0.324	0.277	-	14.5	20	79	0
Styrene	0.522	0.439	-	15.9	20	78	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	90	0
Bromoform	10	7.73	-	22.7*	20	76	0
Isopropylbenzene	1.547	1.499	-	3.1	20	82	0
4-Bromofluorobenzene	0.816	0.85	-	-4.2	20	91	0
Bromobenzene	0.363	0.346	-	4.7	20	83	0
n-Propylbenzene	1.799	1.697	-	5.7	20	80	0
1,4-Dichlorobutane	0.301	0.293	-	2.7	20	86	0
1,1,2,2-Tetrachloroethane	0.241	0.213	-	11.6	20	79	0
4-Ethyltoluene	1.51	1.417	-	6.2	20	79	0
2-Chlorotoluene	1.024	0.997	-	2.6	20	83	0
1,3,5-Trimethylbenzene	1.315	1.2	-	8.7	20	78	0
1,2,3-Trichloropropane	0.193	0.164	-	15	20	76	0
trans-1,4-Dichloro-2-buten	0.061	0.046	-	24.6*	20	68	0
4-Chlorotoluene	1.066	1.006	-	5.6	20	82	0
tert-Butylbenzene	1.131	1.057	-	6.5	20	79	0
1,2,4-Trimethylbenzene	0.747	0.788	-	-5.5	20	92	0
sec-Butylbenzene	1.6	1.526	-	4.6	20	80	0
p-Isopropyltoluene	1.4	1.293	-	7.6	20	78	0
1,3-Dichlorobenzene	0.737	0.69	-	6.4	20	82	0
1,4-Dichlorobenzene	0.736	0.684	-	7.1	20	82	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: VOA122	**Calibration Date**	: 12/18/24 07:54		
Lab File ID	: V22241218A02	**Init. Calib. Date(s)**	: 11/09/24	11/09/24	
Sample No	: WG2010821-2	**Init. Calib. Times**	: 07:44	11:49	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	0.808	0.733	-	9.3	20	78	0
n-Butylbenzene	1.113	1.066	-	4.2	20	80	0
1,2-Dichlorobenzene	0.657	0.61	-	7.2	20	80	0
1,2,4,5-Tetramethylbenzene	1.105	0.974	-	11.9	20	75	0
1,2-Dibromo-3-chloropropan	0.038	0.032	-	15.8	20	76	0
1,3,5-Trichlorobenzene	0.44	0.426	-	3.2	20	83	0
Hexachlorobutadiene	0.146	0.153	-	-4.8	20	93	0
1,2,4-Trichlorobenzene	0.384	0.355*	-	7.6	20	81	0
Naphthalene	0.854	0.735	-	13.9	20	73	0
1,2,3-Trichlorobenzene	0.326	0.306*	-	6.1	20	81	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A02.D
Acq On : 18 Dec 2024 07:54 am
Operator : VOA122:PID
Sample : WG2010821-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2010821,ICAL21691 (Sig #1); WG,ICAL21691 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 18 08:25:09 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 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	Fluorobenzene	1.000	1.000	0.0	93	0.00
2	TP	Dichlorodifluoromethane	0.207	0.132	36.2#	53	0.00
3	TP	Chloromethane	0.177	0.150	15.3	74	0.00
4	TP	Vinyl chloride	0.236	0.169	28.4#	60	0.00
5	TP	Bromomethane	0.170	0.048	71.8#	25#	0.00
6	TP	Chloroethane	0.162	0.103	36.4#	55	0.00
7	TP	Trichlorofluoromethane	0.270	0.244	9.6	77	0.00
8	TP	Ethyl ether	0.059	0.054	8.5	87	0.00
10	TP	1,1-Dichloroethene	0.142	0.140	1.4	85	0.00
11	TP	Carbon disulfide	0.433	0.428	1.2	85	0.00
12	TP	Freon-113	0.150	0.147	2.0	84	0.00
13	TP	Iodomethane	0.179	0.046	74.3#	24#	0.00
14	TP	Acrolein	0.011	0.015	-36.4#	130	0.00
15	TP	Methylene chloride	0.167	0.162	3.0	88	0.00
17	TP	Acetone	0.024	0.023	4.2	85	0.00
18	TP	trans-1,2-Dichloroethene	0.156	0.154	1.3	87	0.00
19	TP	Methyl acetate	0.059	0.053	10.2	94	0.00
21	TP	Methyl tert-butyl ether	0.274	0.240	12.4	83	0.00
22	TP	tert-Butyl alcohol	0.00523	0.00433#	17.2	76	0.00
24	TP	Diisopropyl ether	0.402	0.397	1.2	92	0.00
25	TP	1,1-Dichloroethane	0.283	0.270#	4.6	83	0.00
26	TP	Halothane	0.122	0.121	0.8	89	0.00
27	TP	Acrylonitrile	0.029	0.029	0.0	91	0.00
28	TP	Ethyl tert-butyl ether	0.351	0.293	16.5	80	0.00
29	TP	Vinyl acetate	0.245	0.219	10.6	86	0.00
30	TP	cis-1,2-Dichloroethene	0.173	0.168#	2.9	86	0.00
31	TP	2,2-Dichloropropane	0.209	0.201	3.8	89	0.00
32	TP	Bromochloromethane	0.087	0.082#	5.7	84	0.00
33	TP	Cyclohexane	0.269	0.255	5.2	85	0.00
34	TP	Chloroform	0.283	0.263#	7.1	83	0.00
35	TP	Ethyl acetate	0.080	0.073	8.8	91	0.00
36	TP	Carbon tetrachloride	0.229	0.221	3.5	85	0.00
37	TP	Tetrahydrofuran	0.021	0.024	-14.3	103	-0.01
38	S	Dibromofluoromethane	0.341	0.354	-3.8	95	0.00
39	TP	1,1,1-Trichloroethane	0.258	0.242	6.2	83	0.00
41	TP	2-Butanone	0.034	0.038	-11.8	108	0.00
42	TP	1,1-Dichloropropene	0.208	0.190	8.7	82	0.00
44	TP	Benzene	0.615	0.551	10.4	77	0.00
45	TP	tert-Amyl methyl ether	0.233	0.202	13.3	83	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A02.D
Acq On : 18 Dec 2024 07:54 am
Operator : VOA122:PID
Sample : WG2010821-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2010821,ICAL21691 (Sig #1); WG,ICAL21691 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 18 08:25:09 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 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)
46	S	1,2-Dichloroethane-d4	0.211	0.216	-2.4	95	-0.02
47	T	1,2-Dichloroethane	0.149	0.134	10.1	80	0.00
50	TP	Methyl cyclohexane	0.225	0.196	12.9	80	0.00
51	TP	Trichloroethene	0.143	0.125#	12.6	83	0.00
53	TP	Dibromomethane	0.076	0.071	6.6	83	0.00
54	TP	1,2-Dichloropropane	0.124	0.115#	7.3	83	0.00
57	TP	Bromodichloromethane	0.172	0.156#	9.3	82	0.00
60	TP	1,4-Dioxane	0.00060	0.00053#	11.7	79	-0.01
61	TP	cis-1,3-Dichloropropene	0.179	0.156#	12.8	77	0.00
62	I	Chlorobenzene-d5	1.000	1.000	0.0	95	0.00
63	S	Toluene-d8	1.261	1.266	-0.4	95	0.00
64	TP	Toluene	0.415	0.386	7.0	86	0.00
65	TP	4-Methyl-2-pentanone	0.029	0.020#	31.0#	71	0.00
66	TP	Tetrachloroethene	0.190	0.173	8.9	84	0.00
68	TP	trans-1,3-Dichloropropene	0.189	0.155#	18.0	77	0.00
70	TP	Ethyl methacrylate	0.119	0.082	31.1#	63	0.00
71	TP	1,1,2-Trichloroethane	0.097	0.081#	16.5	78	0.00
72	TP	Chlorodibromomethane	0.159	0.127#	20.1#	80	0.00
73	TP	1,3-Dichloropropane	0.199	0.170	14.6	79	0.00
74	TP	1,2-Dibromoethane	0.119	0.100#	16.0	79	0.00
76	TP	2-Hexanone	0.046	0.037	19.6	76	0.00
77	TP	Chlorobenzene	0.479	0.446	6.9	86	0.00
78	TP	Ethylbenzene	0.825	0.757	8.2	84	0.00
79	TP	1,1,1,2-Tetrachloroethane	0.162	0.134	17.3	79	0.00
80	TP	p/m Xylene	0.340	0.296	12.9	81	0.00
81	TP	o Xylene	0.324	0.277	14.5	79	0.00
82	TP	Styrene	0.522	0.439	15.9	78	0.00
83	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	90	0.00
84	TP	Bromoform	* 10.000	7.730	22.7#	76	0.00
86	TP	Isopropylbenzene	1.547	1.499	3.1	82	0.00
87	S	4-Bromofluorobenzene	0.816	0.850	-4.2	91	0.00
88	TP	Bromobenzene	0.363	0.346	4.7	83	0.00
89	TP	n-Propylbenzene	1.799	1.697	5.7	80	0.00
90	TP	1,4-Dichlorobutane	0.301	0.293	2.7	86	0.00
91	TP	1,1,2,2-Tetrachloroethane	0.241	0.213	11.6	79	0.00
92	TP	4-Ethyltoluene	1.510	1.417	6.2	79	0.00
93	TP	2-Chlorotoluene	1.024	0.997	2.6	83	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A02.D
Acq On : 18 Dec 2024 07:54 am
Operator : VOA122:PID
Sample : WG2010821-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2010821,ICAL21691 (Sig #1); WG,ICAL21691 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 18 08:25:09 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 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)
94 TP	1,3,5-Trimethylbenzene	1.315	1.200	8.7	78	0.00
95 TP	1,2,3-Trichloropropane	0.193	0.164	15.0	76	0.00
96 TP	trans-1,4-Dichloro-2-butene	0.061	0.046	24.6#	68	0.00
97 TP	4-Chlorotoluene	1.066	1.006	5.6	82	0.00
98 TP	tert-Butylbenzene	1.131	1.057	6.5	79	0.00
101 TP	1,2,4-Trimethylbenzene	0.747	0.788	-5.5	92	0.00
102 TP	sec-Butylbenzene	1.600	1.526	4.6	80	0.00
103 TP	p-Isopropyltoluene	1.400	1.293	7.6	78	0.00
104 TP	1,3-Dichlorobenzene	0.737	0.690	6.4	82	0.00
105 TP	1,4-Dichlorobenzene	0.736	0.684	7.1	82	0.00
106 TP	p-Diethylbenzene	0.808	0.733	9.3	78	0.00
107 TP	n-Butylbenzene	1.113	1.066	4.2	80	0.00
108 TP	1,2-Dichlorobenzene	0.657	0.610	7.2	80	0.00
109 TP	1,2,4,5-Tetramethylbenzene	1.105	0.974	11.9	75	0.00
110 TP	1,2-Dibromo-3-chloropropane	0.038	0.032	15.8	76	0.00
111 TP	1,3,5-Trichlorobenzene	0.440	0.426	3.2	83	0.00
112 TP	Hexachlorobutadiene	0.146	0.153	-4.8	93	0.00
113 TP	1,2,4-Trichlorobenzene	0.384	0.355#	7.6	81	0.00
114 TP	Naphthalene	0.854	0.735	13.9	73	0.00
115 TP	1,2,3-Trichlorobenzene	0.326	0.306#	6.1	81	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 17 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A02.D
Acq On : 18 Dec 2024 07:54 am
Operator : VOA122:PID
Sample : WG2010821-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2010821,ICAL21691 (Sig #1); WG,ICAL21691 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 18 08:25:09 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	5.944	96	488520	10.000	ug/L		0.00
Standard Area 1 = 468117			Recovery = 104.36%				
62) Chlorobenzene-d5	9.484	117	400401	10.000	ug/L		0.00
Standard Area 1 = 393322			Recovery = 101.80%				
83) 1,4-Dichlorobenzene-d4	12.202	152	207680	10.000	ug/L		0.00
Standard Area 1 = 207799			Recovery = 99.94%				
System Monitoring Compounds							
38) Dibromofluoromethane	5.131	113	172990	10.375	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.75%				
46) 1,2-Dichloroethane-d4	5.649	65	105460	10.235	ug/L		-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.35%				
63) Toluene-d8	7.640	98	507089	10.045	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.45%				
87) 4-Bromofluorobenzene	10.984	95	176560	10.414	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.14%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.612	85	64343	6.378	ug/L		98
3) Chloromethane	1.795	50	73400	8.501	ug/L		99
4) Vinyl chloride	1.867	62	82399	7.156	ug/L		99
5) Bromomethane	2.169	94	23551	2.831	ug/L		97
6) Chloroethane	2.287	64	50261	6.369	ug/L		100
7) Trichlorofluoromethane	2.425	101	119332	9.056	ug/L		99
8) Ethyl ether	2.720	74	26624	9.179	ug/L	#	1
10) 1,1-Dichloroethene	2.910	96	68306	9.825	ug/L		94
11) Carbon disulfide	2.942	76	208871	9.884	ug/L		100
12) Freon-113	2.949	101	71972	9.845	ug/L		96
13) Iodomethane	3.047	142	22634	2.589	ug/L		97
14) Acrolein	3.218	56	7093	13.468	ug/L		98
15) Methylene chloride	3.454	84	79169	9.691	ug/L		82
17) Acetone	3.493	43	11270	9.580	ug/L		95
18) trans-1,2-Dichloroethene	3.604	96	75256	9.861	ug/L		96
19) Methyl acetate	3.611	43	25841	9.039	ug/L	#	90
21) Methyl tert-butyl ether	3.703	73	117024	8.742	ug/L	#	87
22) tert-Butyl alcohol	3.781	59	10583	41.398	ug/L	#	72
24) Diisopropyl ether	4.063	45	194021	9.873	ug/L		94
25) 1,1-Dichloroethane	4.181	63	131682	9.530	ug/L		98
26) Halothane	4.234	117	58906	9.902	ug/L		100

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A02.D
Acq On : 18 Dec 2024 07:54 am
Operator : VOA122:PID
Sample : WG2010821-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2010821,ICAL21691 (Sig #1); WG,ICAL21691 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 18 08:25:09 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.220	53	14000	9.972	ug/L		97
28) Ethyl tert-butyl ether	4.404	59	143117	8.340	ug/L		90
29) Vinyl acetate	4.410	43	107080	8.945	ug/L	#	92
30) cis-1,2-Dichloroethene	4.692	96	82156	9.727	ug/L		93
31) 2,2-Dichloropropane	4.797	77	98407	9.638	ug/L	#	82
32) Bromochloromethane	4.882	128	39832	9.383	ug/L		90
33) Cyclohexane	4.895	56	124795	9.485	ug/L		85
34) Chloroform	4.954	83	128582	9.307	ug/L		97
35) Ethyl acetate	5.066	43	35621	9.145	ug/L	#	94
36) Carbon tetrachloride	5.099	117	107974	9.662	ug/L		99
37) Tetrahydrofuran	5.105	42	11568M6	11.219	ug/L		
39) 1,1,1-Trichloroethane	5.164	97	118307	9.393	ug/L		99
41) 2-Butanone	5.243	43	18578	11.117	ug/L	#	52
42) 1,1-Dichloropropene	5.282	75	92870	9.120	ug/L		98
44) Benzene	5.525	78	269002	8.950	ug/L		95
45) tert-Amyl methyl ether	5.643	73	98831	8.684	ug/L	#	83
47) 1,2-Dichloroethane	5.728	62	65422	8.960	ug/L		99
50) Methyl cyclohexane	6.121	83	95768	8.694	ug/L		88
51) Trichloroethene	6.121	95	61145	8.742	ug/L		97
53) Dibromomethane	6.556	93	34528	9.273	ug/L	#	84
54) 1,2-Dichloropropane	6.660	63	56305	9.320	ug/L		97
57) Bromodichloromethane	6.730	83	76035	9.062	ug/L		99
60) 1,4-Dioxane	6.938	88	12995	446.710	ug/L	#	79
61) cis-1,3-Dichloropropene	7.425	75	76135	8.715	ug/L	#	89
64) Toluene	7.696	92	154728	9.316	ug/L		100
65) 4-Methyl-2-pentanone	8.127	58	7947	6.955	ug/L	#	67
66) Tetrachloroethene	8.148	166	69263	9.100	ug/L		95
68) trans-1,3-Dichloropropene	8.175	75	61922	8.166	ug/L		90
70) Ethyl methacrylate	8.370	69	32668	6.834	ug/L	#	74
71) 1,1,2-Trichloroethane	8.363	83	32519	8.391	ug/L		100
72) Chlorodibromomethane	8.572	129	50966	7.987	ug/L		99
73) 1,3-Dichloropropane	8.677	76	67893	8.500	ug/L		100
74) 1,2-Dibromoethane	8.846	107	39932	8.376	ug/L		97
76) 2-Hexanone	9.140	43	14754	7.940	ug/L	#	85
77) Chlorobenzene	9.498	112	178472	9.304	ug/L		89
78) Ethylbenzene	9.547	91	303085	9.177	ug/L		100
79) 1,1,1,2-Tetrachloroethane	9.589	131	53740	8.273	ug/L		98
80) p/m Xylene	9.736	106	236990	17.394	ug/L		99
81) o Xylene	10.276	106	221445	17.049	ug/L		100
82) Styrene	10.346	104	351345	16.825	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A02.D
Acq On : 18 Dec 2024 07:54 am
Operator : VOA122:PID
Sample : WG2010821-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2010821,ICAL21691 (Sig #1); WG,ICAL21691 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 18 08:25:09 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
84)	Bromoform	10.360	173	26080	7.730	ug/L		99
86)	Isopropylbenzene	10.662	105	311371	9.691	ug/L		99
88)	Bromobenzene	11.097	156	71758	9.517	ug/L		100
89)	n-Propylbenzene	11.146	91	352417	9.432	ug/L		99
90)	1,4-Dichlorobutane	11.153	55	60778	9.709	ug/L		98
91)	1,1,2,2-Tetrachloroethane	11.223	83	44309	8.858	ug/L		99
92)	4-Ethyltoluene	11.272	105	294221	9.380	ug/L		100
93)	2-Chlorotoluene	11.307	91	207065M6	9.741	ug/L		
94)	1,3,5-Trimethylbenzene	11.377	105	249268	9.131	ug/L		100
95)	1,2,3-Trichloropropane	11.363	75	34037	8.501	ug/L		98
96)	trans-1,4-Dichloro-2-b...	11.419	53	9635	7.653	ug/L	#	77
97)	4-Chlorotoluene	11.496	91	208935	9.435	ug/L		98
98)	tert-Butylbenzene	11.721	119	219492	9.347	ug/L		99
101)	1,2,4-Trimethylbenzene	11.791	105	163738	10.557	ug/L		100
102)	sec-Butylbenzene	11.909	105	317018	9.540	ug/L		100
103)	p-Isopropyltoluene	12.062	119	268465	9.233	ug/L		99
104)	1,3-Dichlorobenzene	12.118	146	143235	9.364	ug/L		98
105)	1,4-Dichlorobenzene	12.216	146	142140	9.300	ug/L		98
106)	p-Diethylbenzene	12.438	119	152289	9.073	ug/L		99
107)	n-Butylbenzene	12.494	91	221376	9.575	ug/L		100
108)	1,2-Dichlorobenzene	12.640	146	126748	9.287	ug/L		97
109)	1,2,4,5-Tetramethylben...	13.239	119	202377	8.817	ug/L		99
110)	1,2-Dibromo-3-chloropr...	13.420	155	6649	8.530	ug/L		100
111)	1,3,5-Trichlorobenzene	13.455	180	88492	9.693	ug/L		99
112)	Hexachlorobutadiene	14.039	225	31705	10.430	ug/L		97
113)	1,2,4-Trichlorobenzene	14.053	180	73732	9.246	ug/L		99
114)	Naphthalene	14.346	128	152574	8.604	ug/L		100
115)	1,2,3-Trichlorobenzene	14.520	180	63474	9.376	ug/L		99

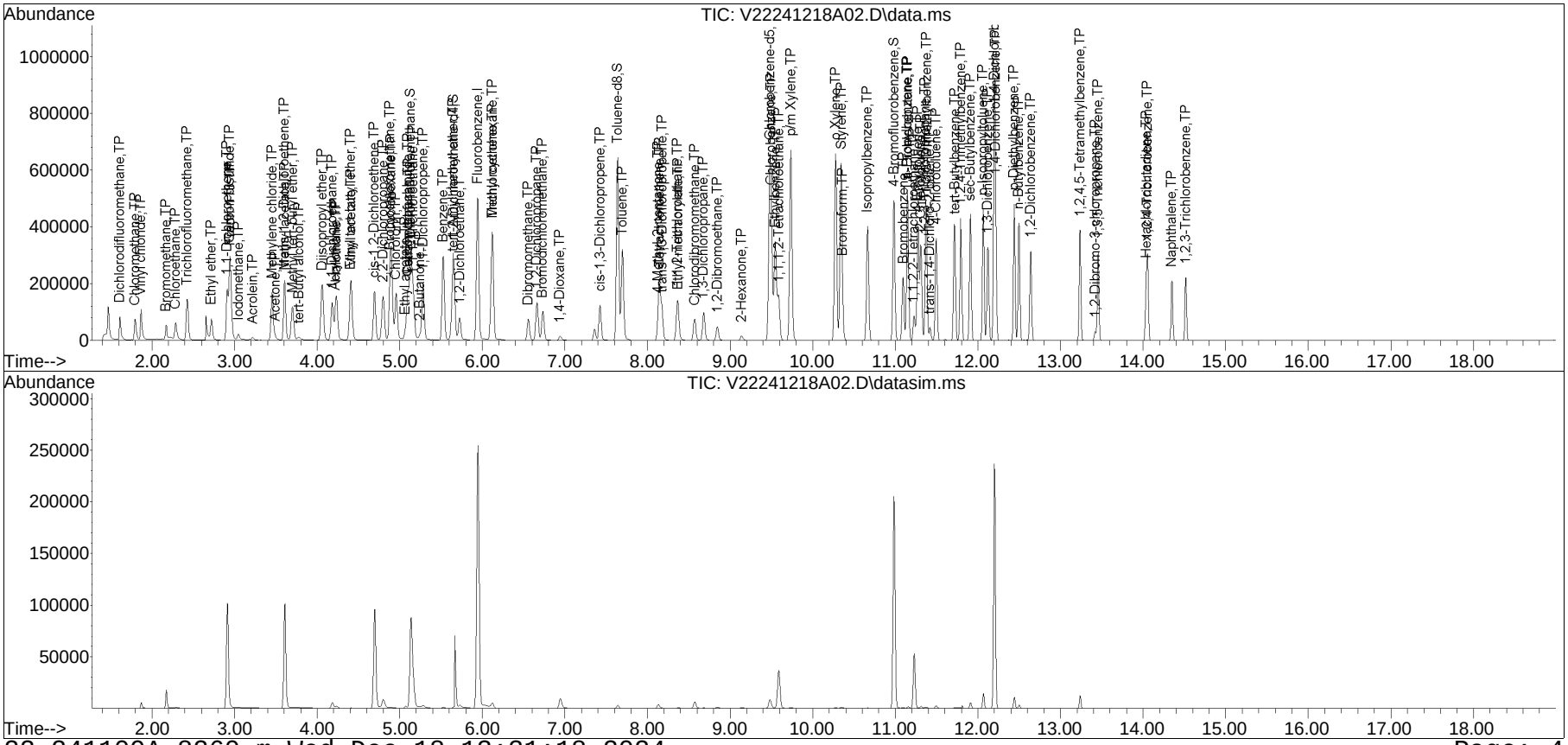
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A02.D
Acq On : 18 Dec 2024 07:54 am
Operator : VOA122:PID
Sample : WG2010821-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2010821,ICAL21691 (Sig #1); WG,ICAL21691 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 18 08:25:09 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

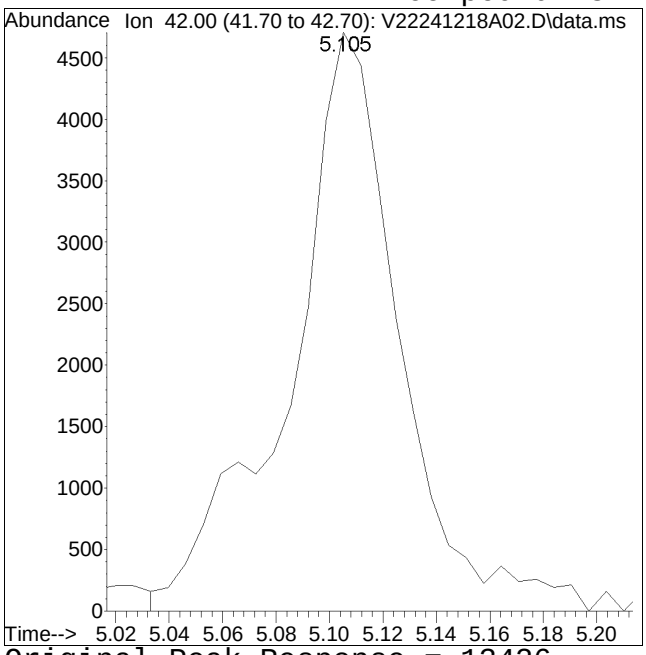
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE01.D•



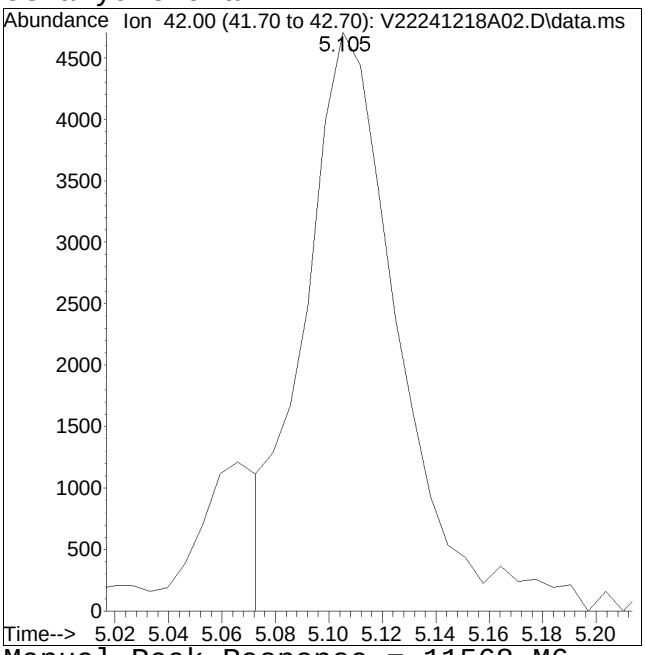
Manual Integration Report

Data Path	: K:\VOA122\2024\241218A\	QMethod	: V122_241109A_8260.m
Data File	: V22241218A02.D	Operator	: VOA122:PID
Date Inj'd	: 12/18/2024 7:54 am	Instrument	: VOA 122
Sample	: WG2010821-2	Quant Date	: 12/18/2024 8:24 am

Compound #37: Tetrahydrofuran



Original Peak Response = 13426



Manual Peak Response = 11568 M6

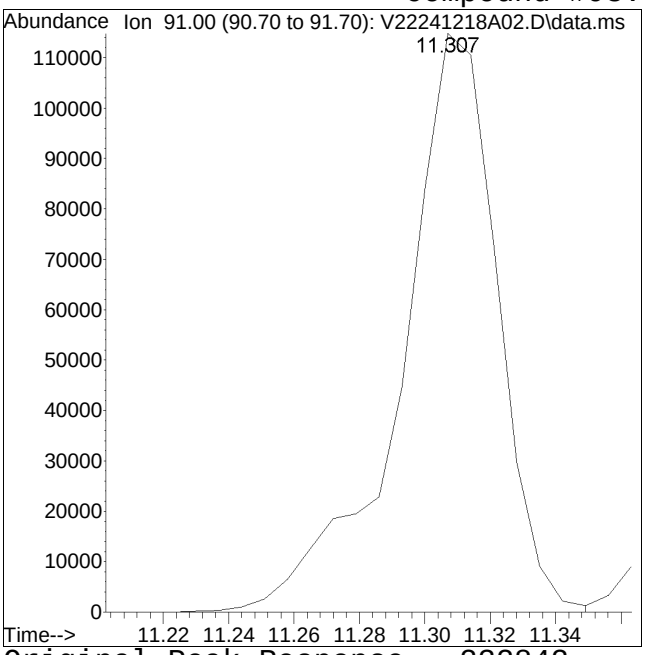
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

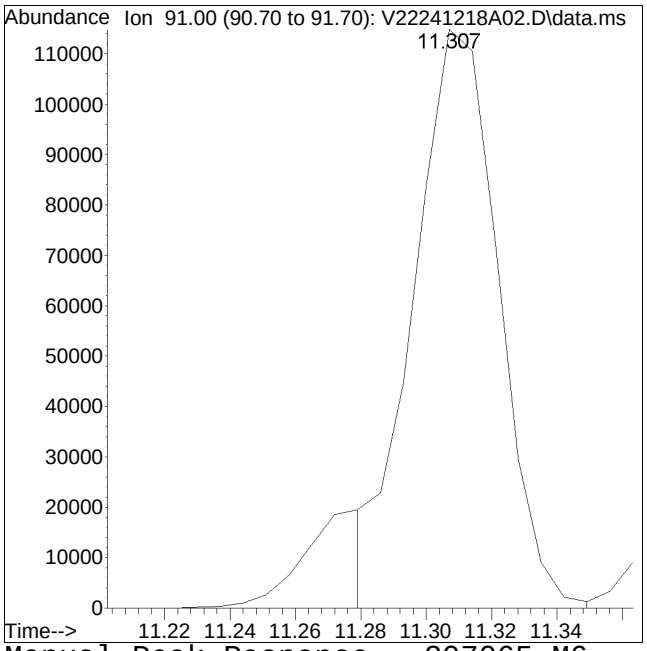
Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A02.D
Date Inj'd : 12/18/2024 7:54 am
Sample : WG2010821-2

QMethod : V122_241109A_8260.m
Operator : VOA122:PID
Instrument : VOA 122
Quant Date : 12/18/2024 8:24 am

Compound #93: 2-Chlorotoluene



Original Peak Response = 232842



Manual Peak Response = 207065 M6

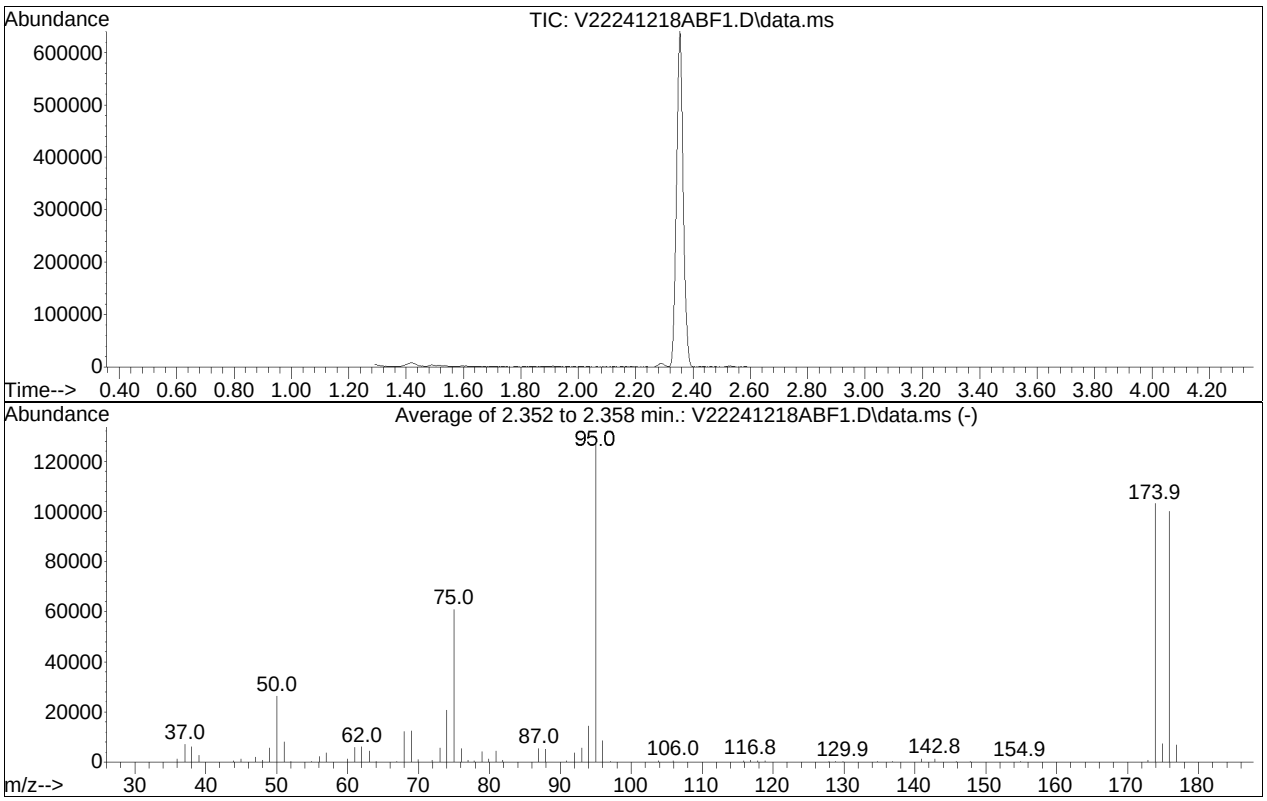
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

BFB

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218ABF1.D
Acq On : 18 Dec 2024 07:17 am
Operator : VOA122:PID
Sample : WG2010821-1
Misc : WG2010821
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Nov 11 12:28:19 2024



AutoFind: Scans 382, 383, 384; Background Corrected with Scan 367

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.8	26480	PASS
75	95	30	60	47.8	60907	PASS
95	95	100	100	100.0	127451	PASS
96	95	5	9	6.7	8585	PASS
173	174	0.00	2	0.9	959	PASS
174	95	50	100	80.9	103072	PASS
175	174	5	9	7.3	7500	PASS
176	174	95	101	97.1	100096	PASS
177	176	5	9	6.7	6692	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A05.D
Acq On : 18 Dec 2024 09:07 am
Operator : VOA122:PID
Sample : WG2010821-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG2010821,ICAL21691 (Sig #1); WG,ICAL21691 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 18 09:50:59 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.944	96	457981	10.000 ug/L	0.00
Standard Area 1 = 468117			Recovery = 97.83%		
62) Chlorobenzene-d5	9.484	117	382057	10.000 ug/L	0.00
Standard Area 1 = 393322			Recovery = 97.14%		
83) 1,4-Dichlorobenzene-d4	12.202	152	195364	10.000 ug/L	0.00
Standard Area 1 = 207799			Recovery = 94.02%		
System Monitoring Compounds					
38) Dibromofluoromethane	5.131	113	169064	10.816 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.16%		
46) 1,2-Dichloroethane-d4	5.649	65	99022	10.251 ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.51%		
63) Toluene-d8	7.640	98	480404	9.973 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.73%		
87) 4-Bromofluorobenzene	10.984	95	165756	10.393 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.93%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	1.795	50	81	N.D.	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	2.182	94	236	N.D.	
6) Chloroethane	2.254	64	62	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	0.000		0	N.D.	
11) Carbon disulfide	2.936	76	486	N.D.	
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	0.000		0	N.D.	
17) Acetone	0.000		0	N.D. d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
19) Methyl acetate	0.000		0	N.D. d	
21) Methyl tert-butyl ether	0.000		0	N.D.	
25) 1,1-Dichloroethane	0.000		0	N.D.	
30) cis-1,2-Dichloroethene	0.000		0	N.D.	
32) Bromochloromethane	0.000		0	N.D.	
33) Cyclohexane	0.000		0	N.D.	
34) Chloroform	0.000		0	N.D.	
36) Carbon tetrachloride	0.000		0	N.D.	

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A05.D
Acq On : 18 Dec 2024 09:07 am
Operator : VOA122:PID
Sample : WG2010821-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG2010821,ICAL21691 (Sig #1); WG,ICAL21691 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 18 09:50:59 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-Trichloroethane	0.000		0	N.D.		
41) 2-Butanone	5.249	43	3032	1.935	ug/L #	47
44) Benzene	0.000		0	N.D.		
47) 1,2-Dichloroethane	0.000		0	N.D.		
50) Methyl cyclohexane	0.000		0	N.D.		
51) Trichloroethene	6.095	95	294	N.D.		
54) 1,2-Dichloropropane	0.000		0	N.D.		
57) Bromodichloromethane	0.000		0	N.D.		
61) cis-1,3-Dichloropropene	0.000		0	N.D.		
64) Toluene	0.000		0	N.D.		
65) 4-Methyl-2-pentanone	0.000		0	N.D.		
66) Tetrachloroethene	0.000		0	N.D.		
68) trans-1,3-Dichloropropene	0.000		0	N.D.		
71) 1,1,2-Trichloroethane	0.000		0	N.D.		
72) Chlorodibromomethane	0.000		0	N.D.		
74) 1,2-Dibromoethane	0.000		0	N.D.		
76) 2-Hexanone	0.000		0	N.D.		
77) Chlorobenzene	0.000		0	N.D.		
78) Ethylbenzene	9.484	91	688	N.D.		
80) p/m Xylene	0.000		0	N.D.		
81) o Xylene	0.000		0	N.D.		
82) Styrene	0.000		0	N.D.		
84) Bromoform	0.000		0	N.D.		
86) Isopropylbenzene	0.000		0	N.D.		
91) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
104) 1,3-Dichlorobenzene	12.216	146	147	N.D.		
105) 1,4-Dichlorobenzene	12.216	146	147	N.D.		
108) 1,2-Dichlorobenzene	0.000		0	N.D.		
110) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
113) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
115) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

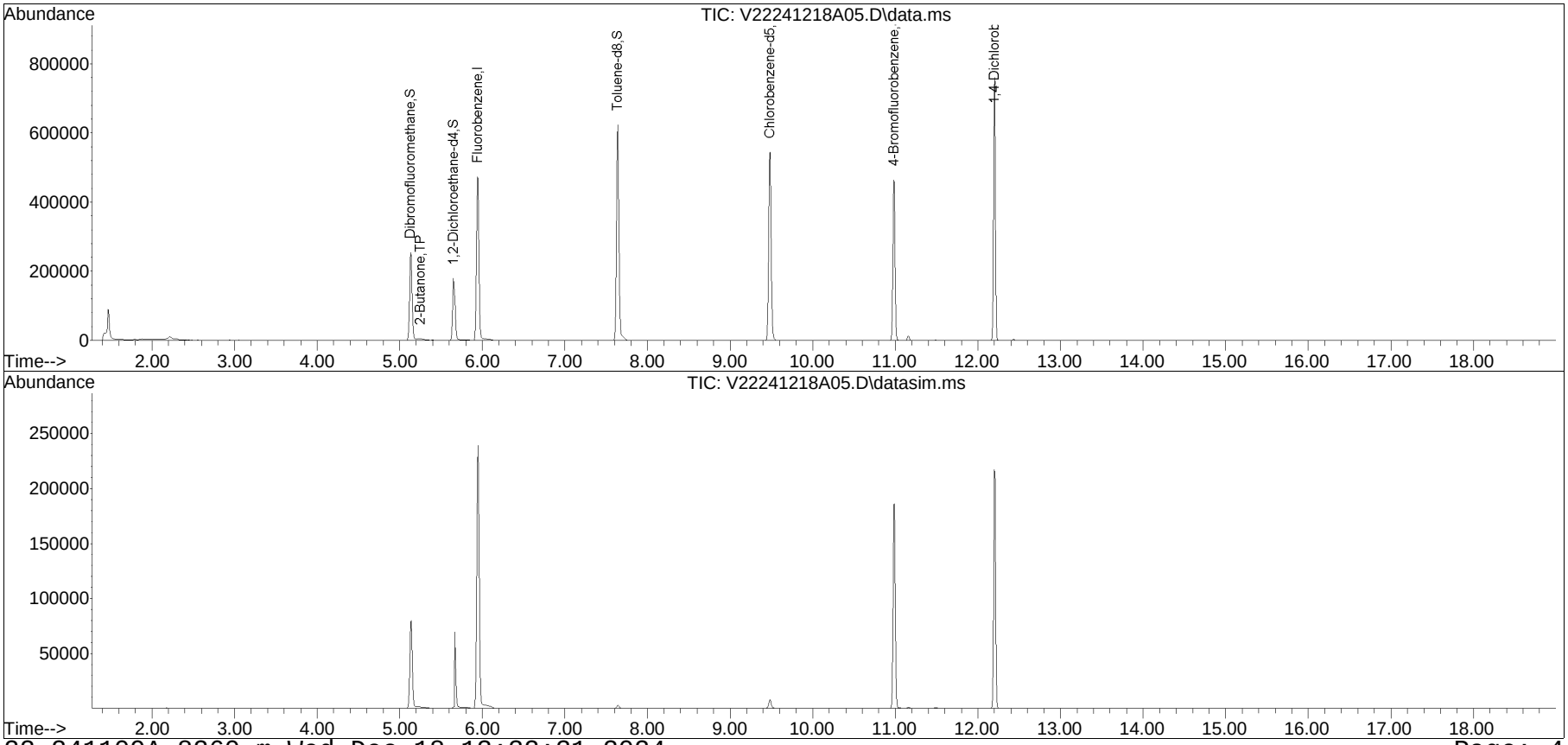
(#) = qualifier out of range (m) = manual integration (+) = signals summed

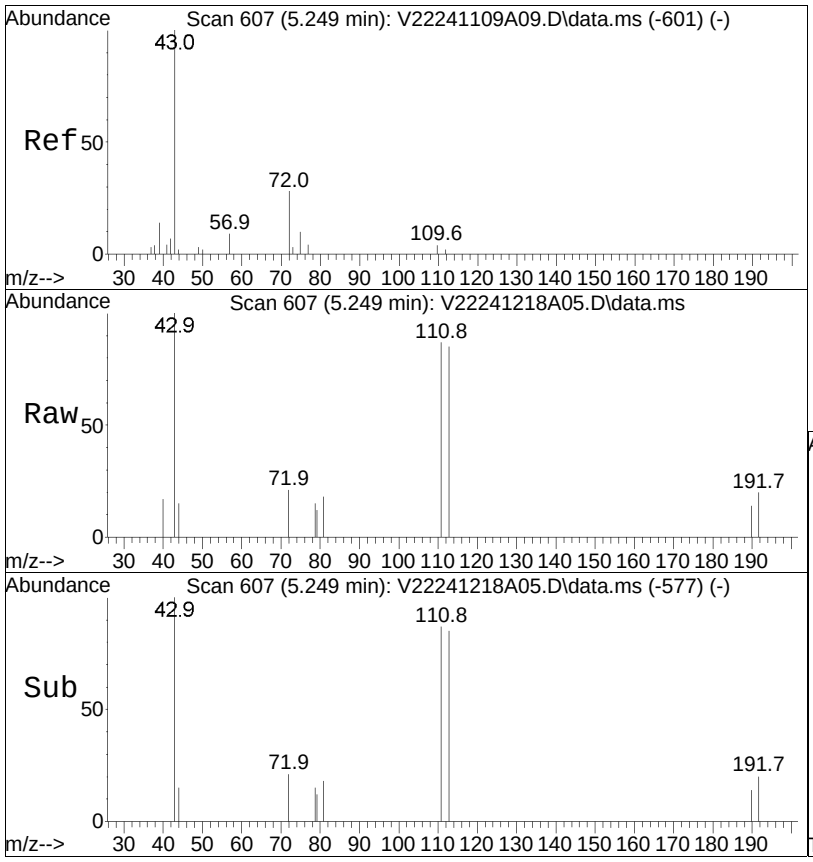
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A05.D
Acq On : 18 Dec 2024 09:07 am
Operator : VOA122:PID
Sample : WG2010821-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG2010821,ICAL21691 (Sig #1); WG,ICAL21691 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 18 09:50:59 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE01.D•

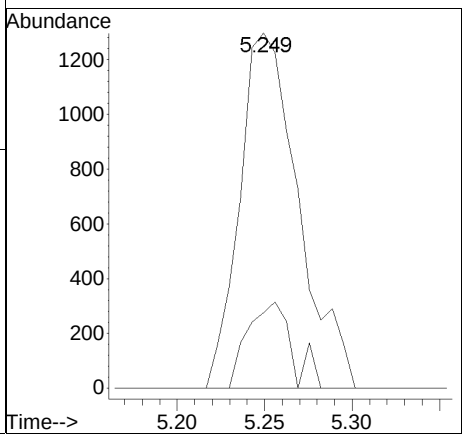




#41
2-Butanone
Concen: 1.94 ug/L
RT: 5.249 min Scan# 607
Delta R.T. -0.000 min
Lab File: V22241218A05.D
Acq: 18 Dec 2024 09:07 am

Tgt Ion: 43 Resp: 3032

Ion	Ratio	Lower	Upper
43	100		
72	18.3	45.8	68.8#



Manual Integration Report

Data Path	: K:\VOA122\2024\241218A\	QMethod	: V122_241109A_8260.m
Data File	: V22241218A05.D	Operator	: VOA122:PID
Date Inj'd	: 12/18/2024 9:07 am	Instrument	: VOA 122
Sample	: WG2010821-5,31,10,10	Quant Date	: 12/18/2024 9:50 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A02.D
Acq On : 18 Dec 2024 07:54 am
Operator : VOA122:PID
Sample : WG2010821-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2010821,ICAL21691 (Sig #1); WG,ICAL21691 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 18 08:25:09 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.944	96	488520	10.000	ug/L	0.00
Standard Area 1 = 468117			Recovery = 104.36%			
62) Chlorobenzene-d5	9.484	117	400401	10.000	ug/L	0.00
Standard Area 1 = 393322			Recovery = 101.80%			
83) 1,4-Dichlorobenzene-d4	12.202	152	207680	10.000	ug/L	0.00
Standard Area 1 = 207799			Recovery = 99.94%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.131	113	172990	10.375	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.75%			
46) 1,2-Dichloroethane-d4	5.649	65	105460	10.235	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.35%			
63) Toluene-d8	7.640	98	507089	10.045	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.45%			
87) 4-Bromofluorobenzene	10.984	95	176560	10.414	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.14%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.612	85	64343	6.378	ug/L	98
3) Chloromethane	1.795	50	73400	8.501	ug/L	99
4) Vinyl chloride	1.867	62	82399	7.156	ug/L	99
5) Bromomethane	2.169	94	23551	2.831	ug/L	97
6) Chloroethane	2.287	64	50261	6.369	ug/L	100
7) Trichlorofluoromethane	2.425	101	119332	9.056	ug/L	99
10) 1,1-Dichloroethene	2.910	96	68306	9.825	ug/L	94
11) Carbon disulfide	2.942	76	208871	9.884	ug/L	100
12) Freon-113	2.949	101	71972	9.845	ug/L	96
15) Methylene chloride	3.454	84	79169	9.691	ug/L	82
17) Acetone	3.493	43	11270	9.580	ug/L	95
18) trans-1,2-Dichloroethene	3.604	96	75256	9.861	ug/L	96
19) Methyl acetate	3.611	43	25841	9.039	ug/L #	90
21) Methyl tert-butyl ether	3.703	73	117024	8.742	ug/L #	87
25) 1,1-Dichloroethane	4.181	63	131682	9.530	ug/L	98
30) cis-1,2-Dichloroethene	4.692	96	82156	9.727	ug/L	93
32) Bromochloromethane	4.882	128	39832	9.383	ug/L	90
33) Cyclohexane	4.895	56	124795	9.485	ug/L	85
34) Chloroform	4.954	83	128582	9.307	ug/L	97
36) Carbon tetrachloride	5.099	117	107974	9.662	ug/L	99

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A02.D
Acq On : 18 Dec 2024 07:54 am
Operator : VOA122:PID
Sample : WG2010821-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2010821,ICAL21691 (Sig #1); WG,ICAL21691 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 18 08:25:09 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) 1,1,1-Trichloroethane	5.164	97	118307	9.393	ug/L		99
41) 2-Butanone	5.243	43	18578	11.117	ug/L	#	52
44) Benzene	5.525	78	269002	8.950	ug/L		95
47) 1,2-Dichloroethane	5.728	62	65422	8.960	ug/L		99
50) Methyl cyclohexane	6.121	83	95768	8.694	ug/L		88
51) Trichloroethene	6.121	95	61145	8.742	ug/L		97
54) 1,2-Dichloropropane	6.660	63	56305	9.320	ug/L		97
57) Bromodichloromethane	6.730	83	76035	9.062	ug/L		99
61) cis-1,3-Dichloropropene	7.425	75	76135	8.715	ug/L	#	89
64) Toluene	7.696	92	154728	9.316	ug/L		100
65) 4-Methyl-2-pentanone	8.127	58	7947	6.955	ug/L	#	67
66) Tetrachloroethene	8.148	166	69263	9.100	ug/L		95
68) trans-1,3-Dichloropropene	8.175	75	61922	8.166	ug/L		90
71) 1,1,2-Trichloroethane	8.363	83	32519	8.391	ug/L		100
72) Chlorodibromomethane	8.572	129	50966	7.987	ug/L		99
74) 1,2-Dibromoethane	8.846	107	39932	8.376	ug/L		97
76) 2-Hexanone	9.140	43	14754	7.940	ug/L	#	85
77) Chlorobenzene	9.498	112	178472	9.304	ug/L		89
78) Ethylbenzene	9.547	91	303085	9.177	ug/L		100
80) p/m Xylene	9.736	106	236990	17.394	ug/L		99
81) o Xylene	10.276	106	221445	17.049	ug/L		100
82) Styrene	10.346	104	351345	16.825	ug/L		98
84) Bromoform	10.360	173	26080	7.730	ug/L		99
86) Isopropylbenzene	10.662	105	311371	9.691	ug/L		99
91) 1,1,2,2-Tetrachloroethane	11.223	83	44309	8.858	ug/L		99
104) 1,3-Dichlorobenzene	12.118	146	143235	9.364	ug/L		98
105) 1,4-Dichlorobenzene	12.216	146	142140	9.300	ug/L		98
108) 1,2-Dichlorobenzene	12.640	146	126748	9.287	ug/L		97
110) 1,2-Dibromo-3-chloropr...	13.420	155	6649	8.530	ug/L		100
113) 1,2,4-Trichlorobenzene	14.053	180	73732	9.246	ug/L		99
115) 1,2,3-Trichlorobenzene	14.520	180	63474	9.376	ug/L		99

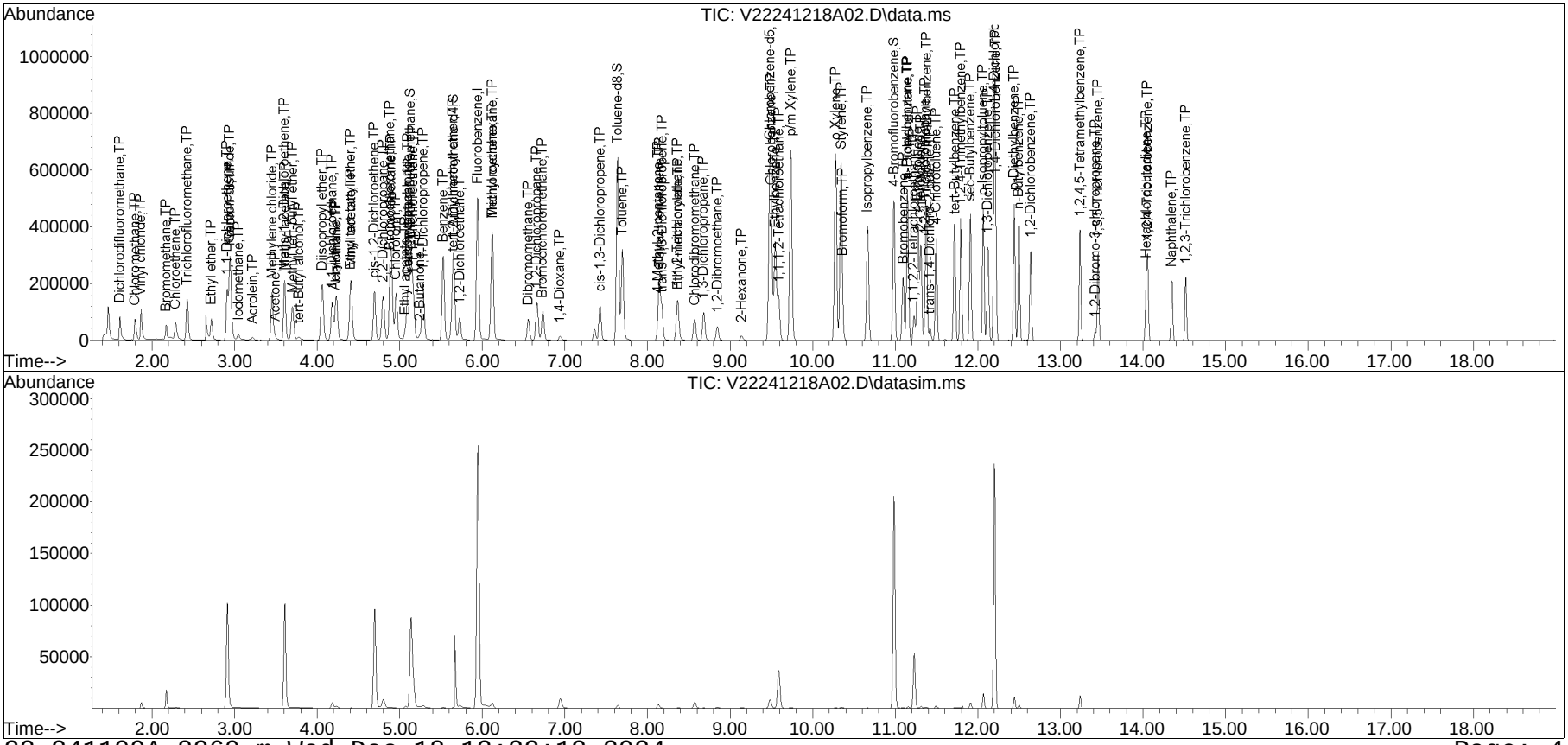
(#) = qualifier out of range (m) = manual integration (+) = signals summed

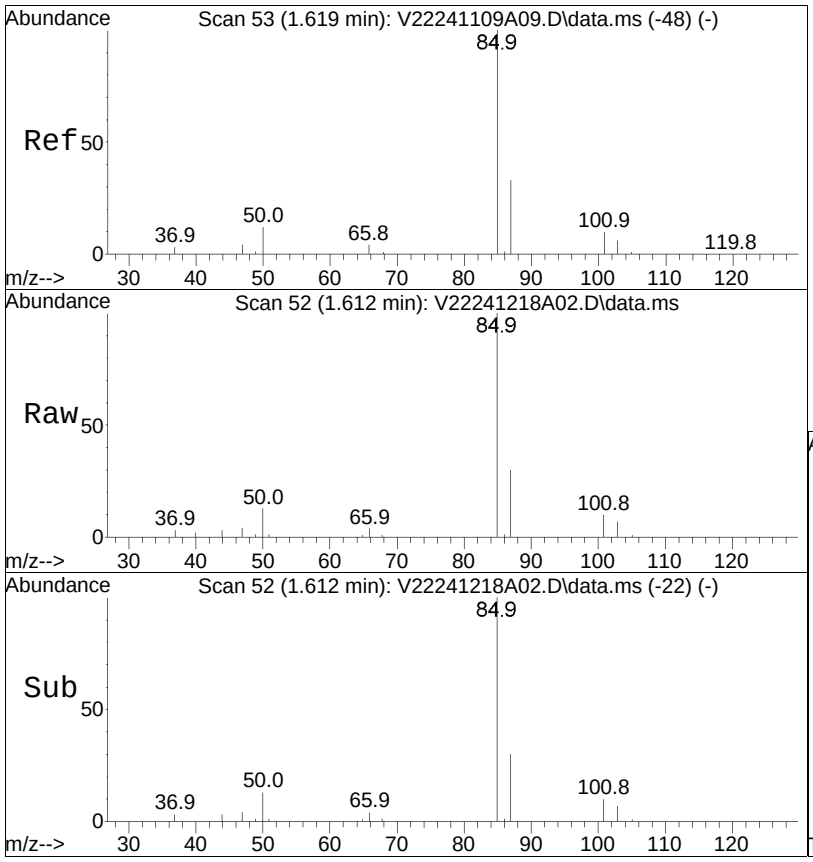
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A02.D
Acq On : 18 Dec 2024 07:54 am
Operator : VOA122:PID
Sample : WG2010821-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2010821,ICAL21691 (Sig #1); WG,ICAL21691 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 18 08:25:09 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE01.D•

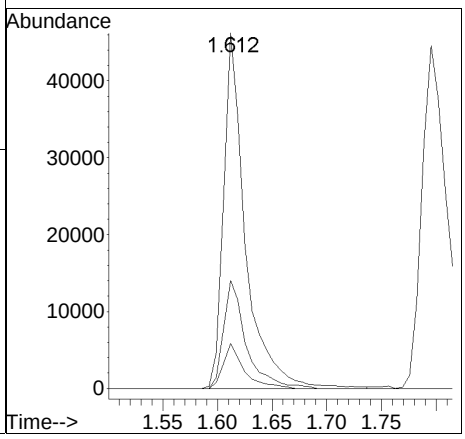


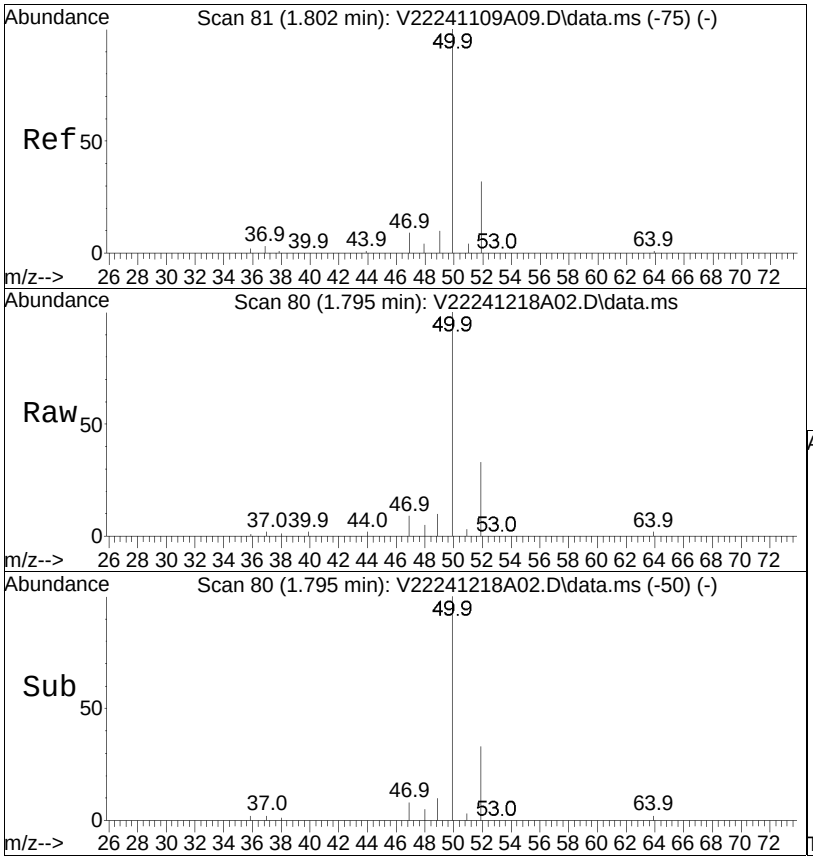


#2
Dichlorodifluoromethane
Concen: 6.38 ug/L
RT: 1.612 min Scan# 52
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion: 85 Resp: 64343

Ion	Ratio	Lower	Upper
85	100		
87	31.3	20.7	42.9
50	12.0	6.8	14.2

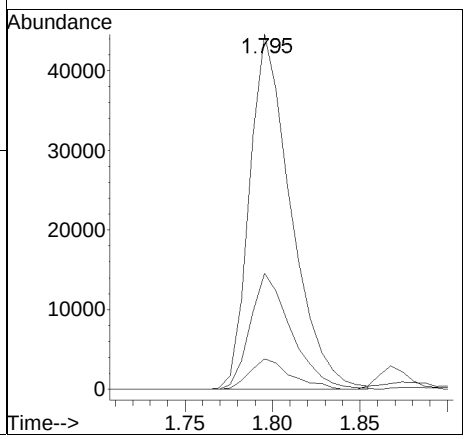


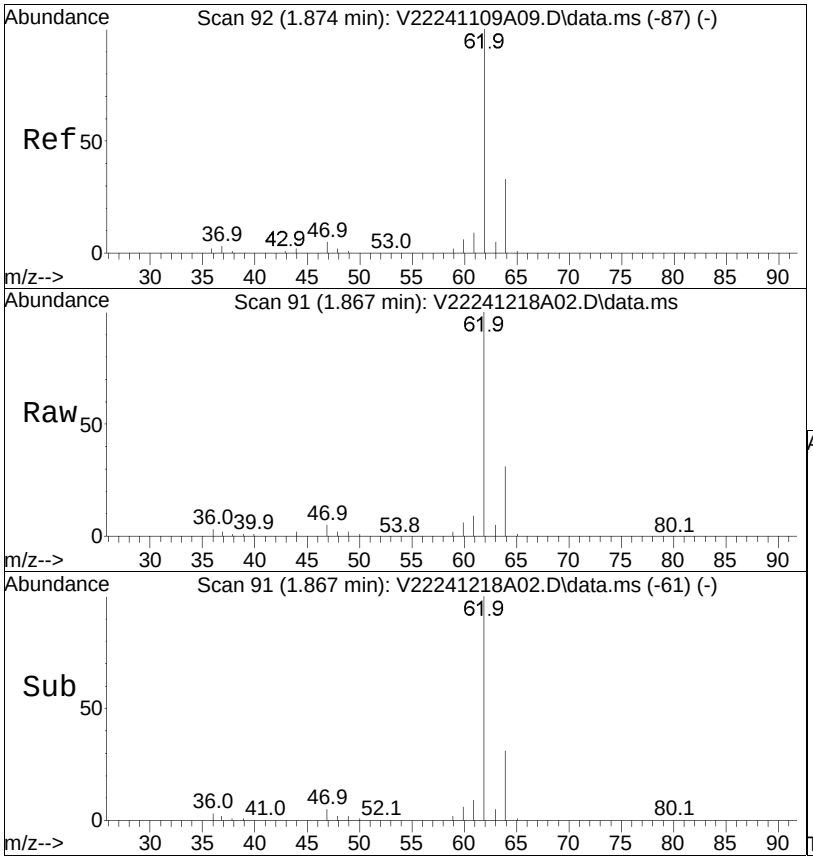


#3
Chloromethane
Concen: 8.50 ug/L
RT: 1.795 min Scan# 80
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion: 50 Resp: 73400

Ion	Ratio	Lower	Upper
50	100		
52	32.5	12.8	52.8
47	8.6	0.0	30.0

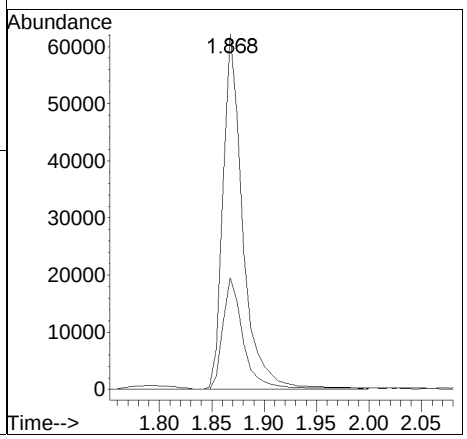


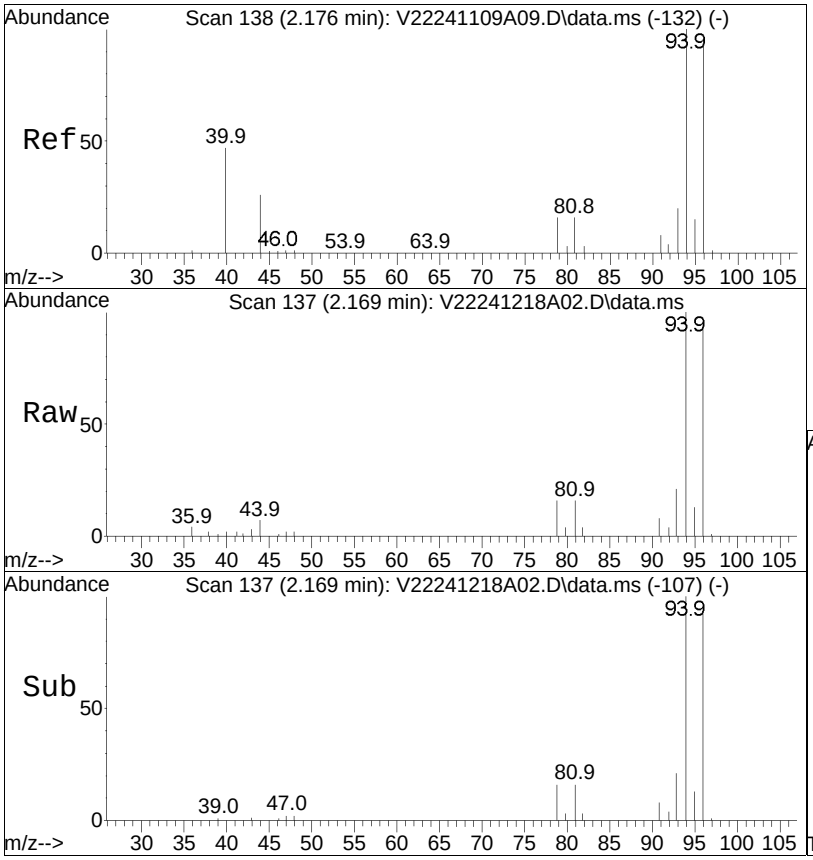


#4
Vinyl chloride
Concen: 7.16 ug/L
RT: 1.867 min Scan# 91
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion: 62 Resp: 82399

Ion	Ratio	Lower	Upper
62	100		
64	32.4	12.0	52.0

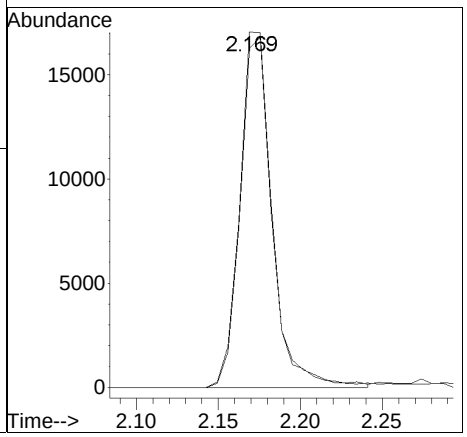


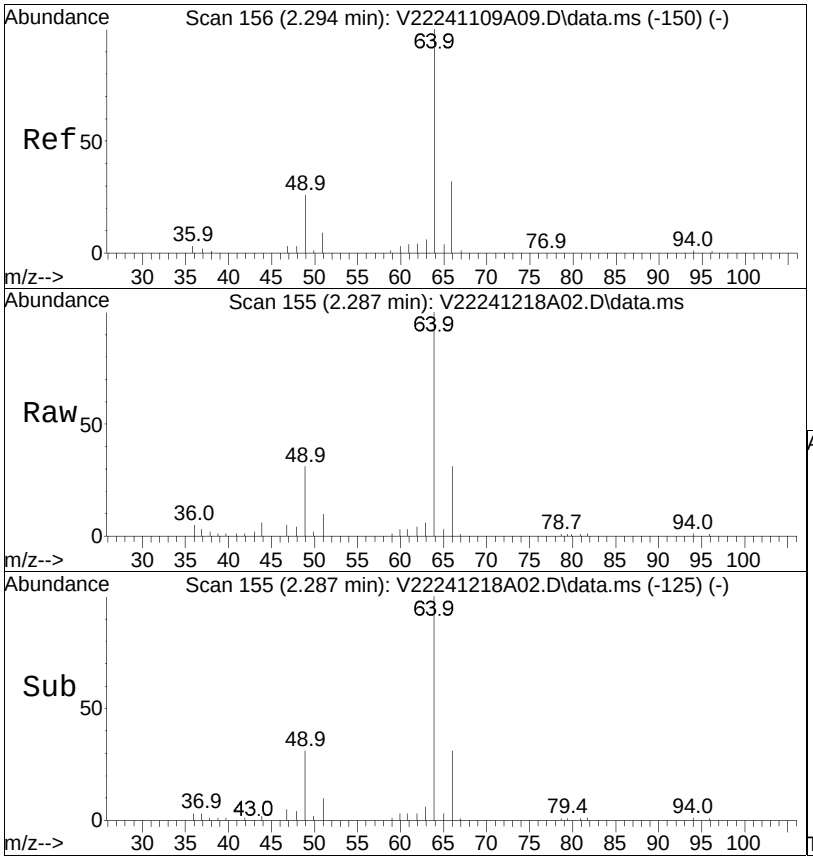


#5
Bromomethane
Concen: 2.83 ug/L
RT: 2.169 min Scan# 137
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion: 94 Resp: 23551

Ion	Ratio	Lower	Upper
94	100		
96	95.8	72.8	112.8

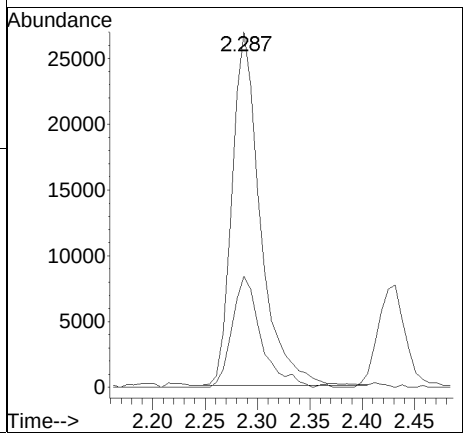


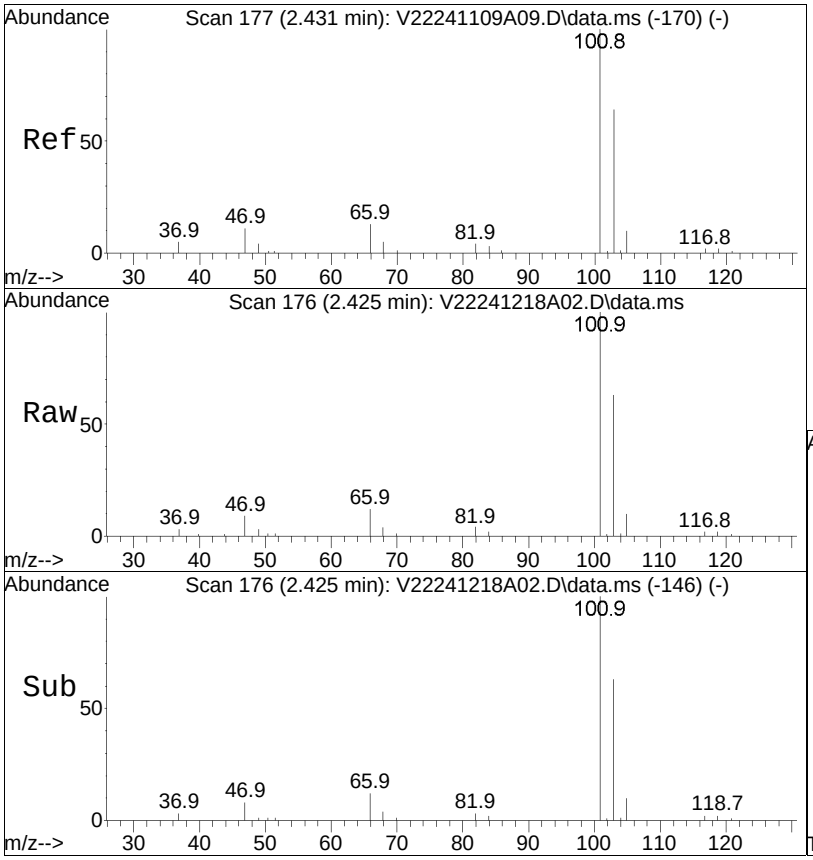


#6
Chloroethane
Concen: 6.37 ug/L
RT: 2.287 min Scan# 155
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion: 64 Resp: 50261

Ion	Ratio	Lower	Upper
64	100		
66	32.3	12.2	52.2

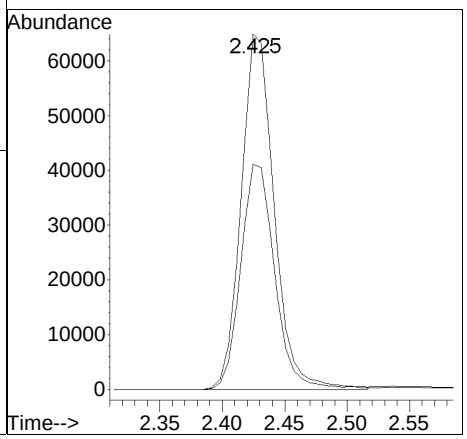


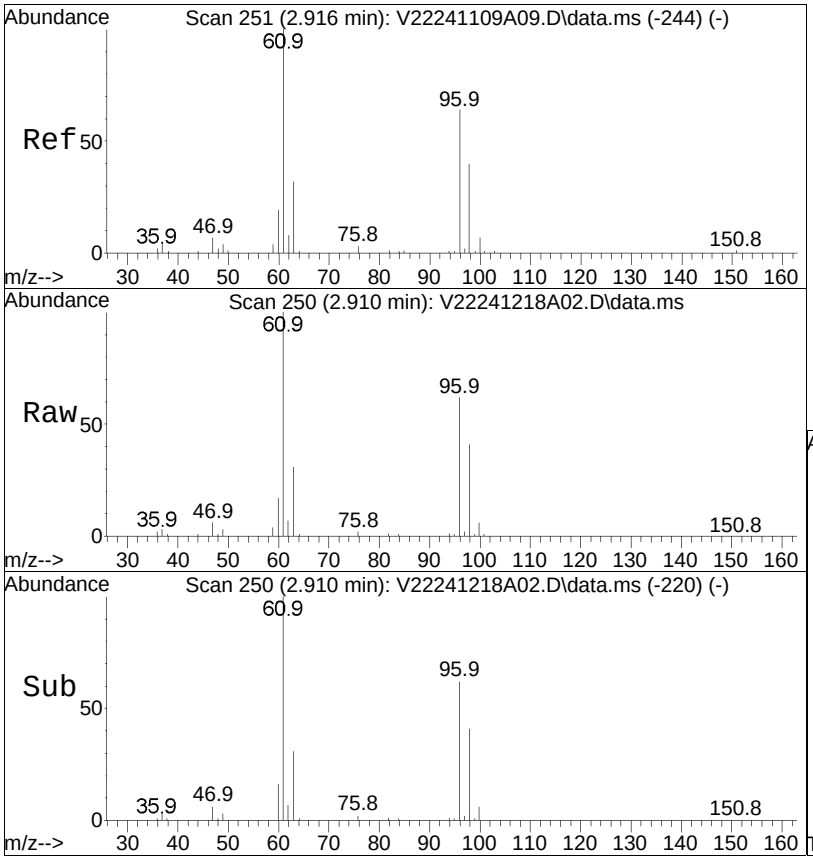


#7
Trichlorofluoromethane
Concen: 9.06 ug/L
RT: 2.425 min Scan# 176
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion:101 Resp: 119332

Ion	Ratio	Lower	Upper
101	100		
103	65.3	51.6	77.4

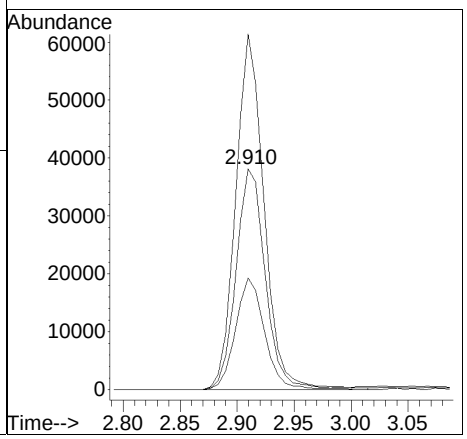


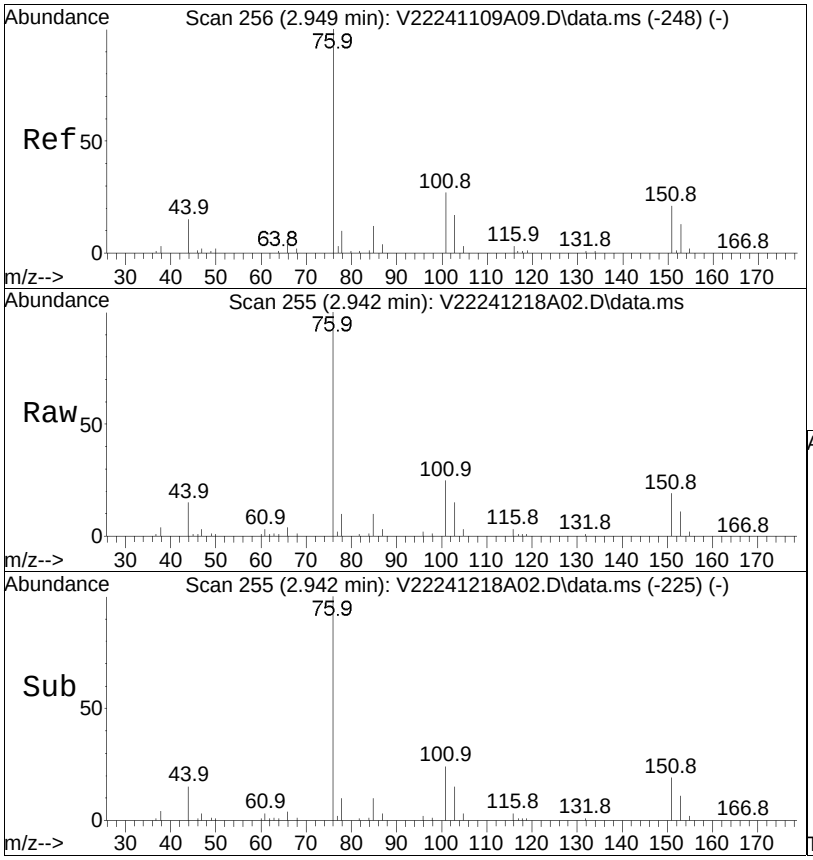


#10
1,1-Dichloroethene
Concen: 9.83 ug/L
RT: 2.910 min Scan# 250
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion: 96 Resp: 68306

Ion	Ratio	Lower	Upper
96	100		
61	154.9	117.0	175.4
63	49.6	37.8	56.6

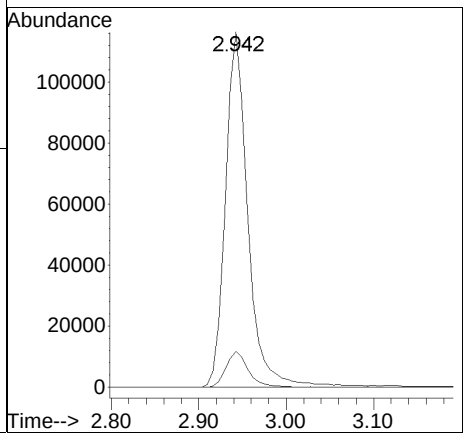


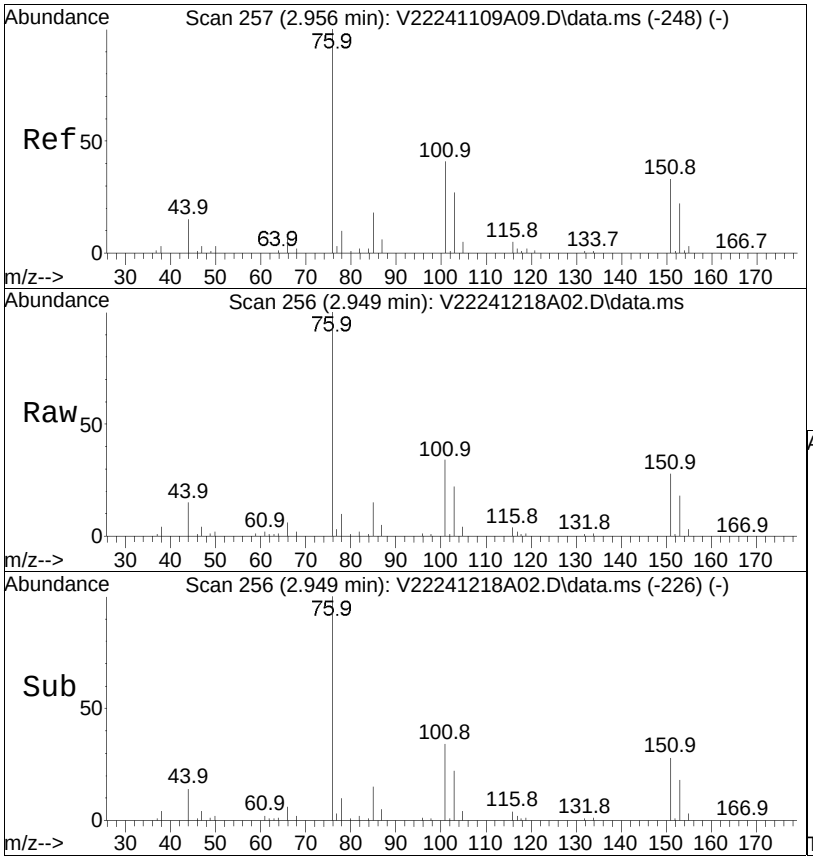


#11
Carbon disulfide
Concen: 9.88 ug/L
RT: 2.942 min Scan# 255
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion: 76 Resp: 208871

Ion	Ratio	Lower	Upper
76	100		
78	10.1	6.4	13.4

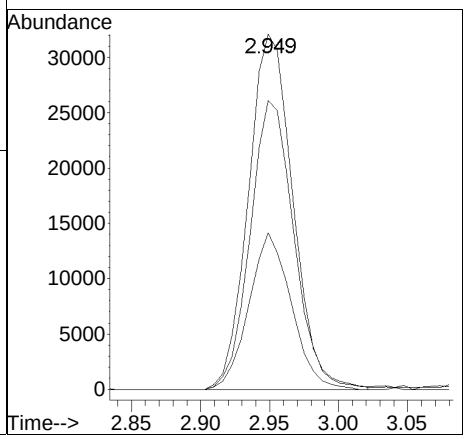


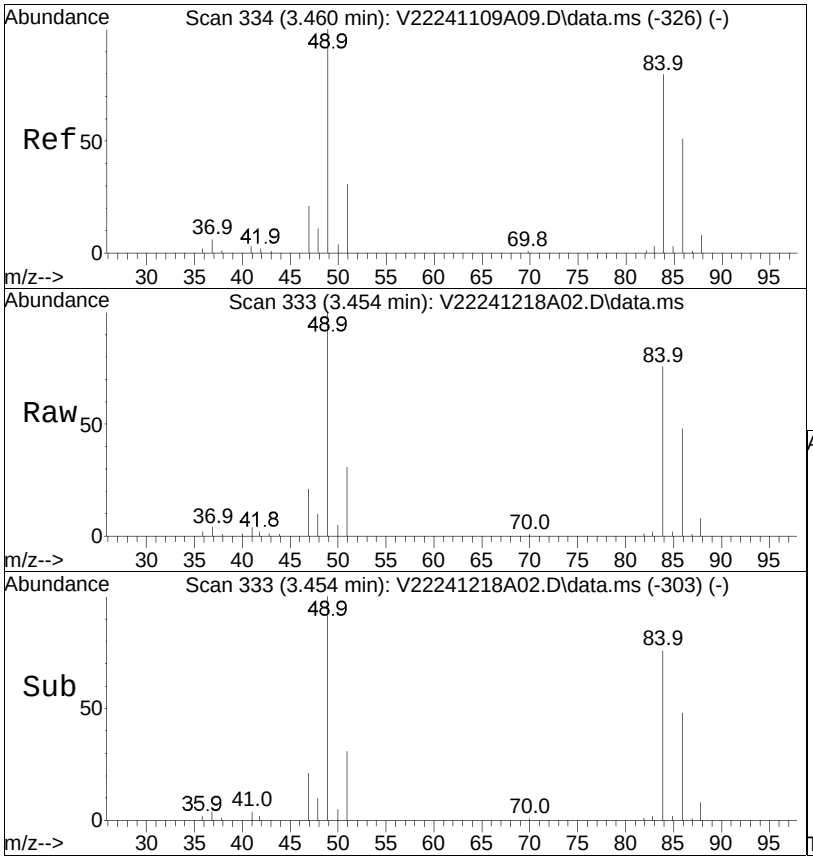


#12
Freon-113
Concen: 9.84 ug/L
RT: 2.949 min Scan# 256
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion:101 Resp: 71972

Ion	Ratio	Lower	Upper
101	100		
151	80.1	68.5	102.7
85	42.0	33.1	49.7

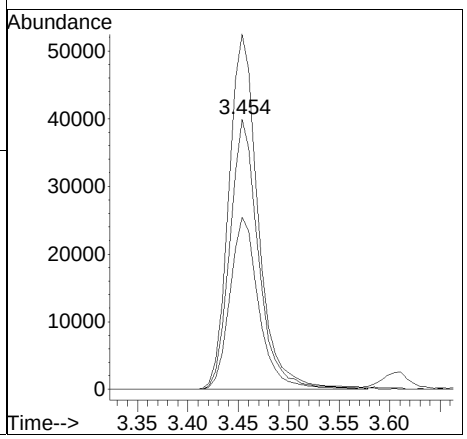


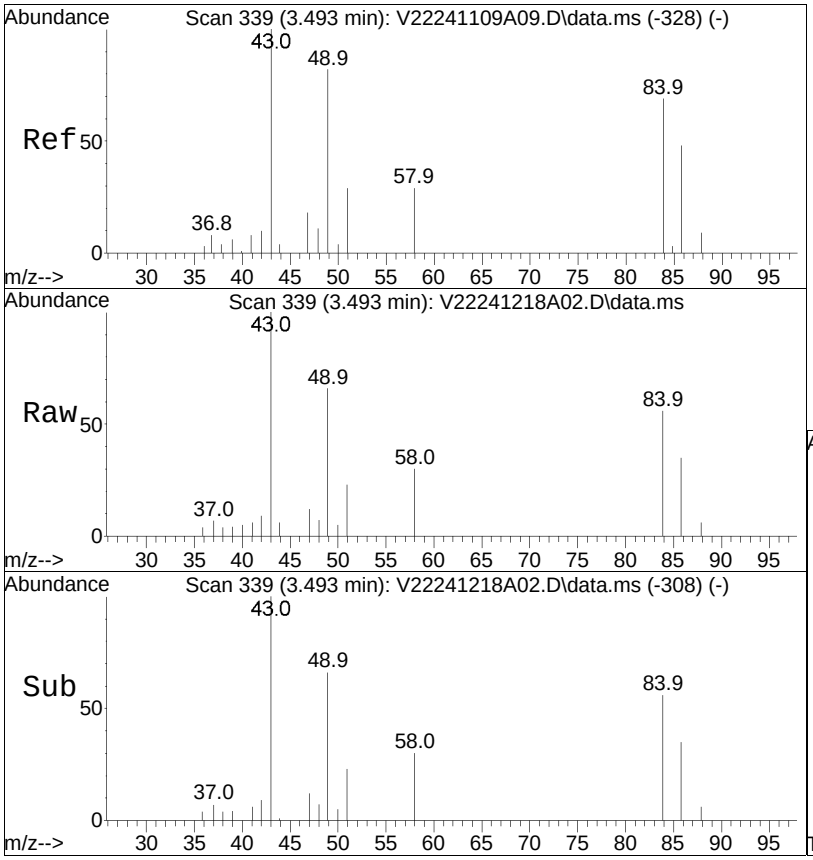


#15
Methylene chloride
Concen: 9.69 ug/L
RT: 3.454 min Scan# 333
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion: 84 Resp: 79169

Ion	Ratio	Lower	Upper
84	100		
86	64.4	41.5	86.3
49	134.5	68.8	143.0

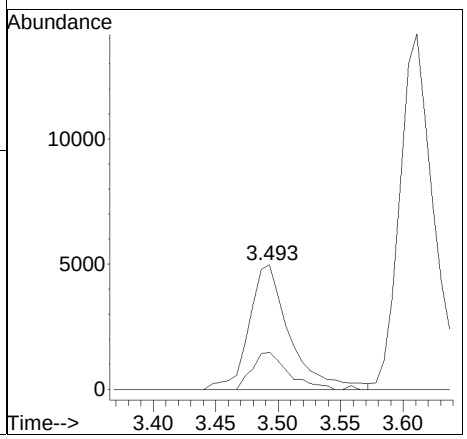


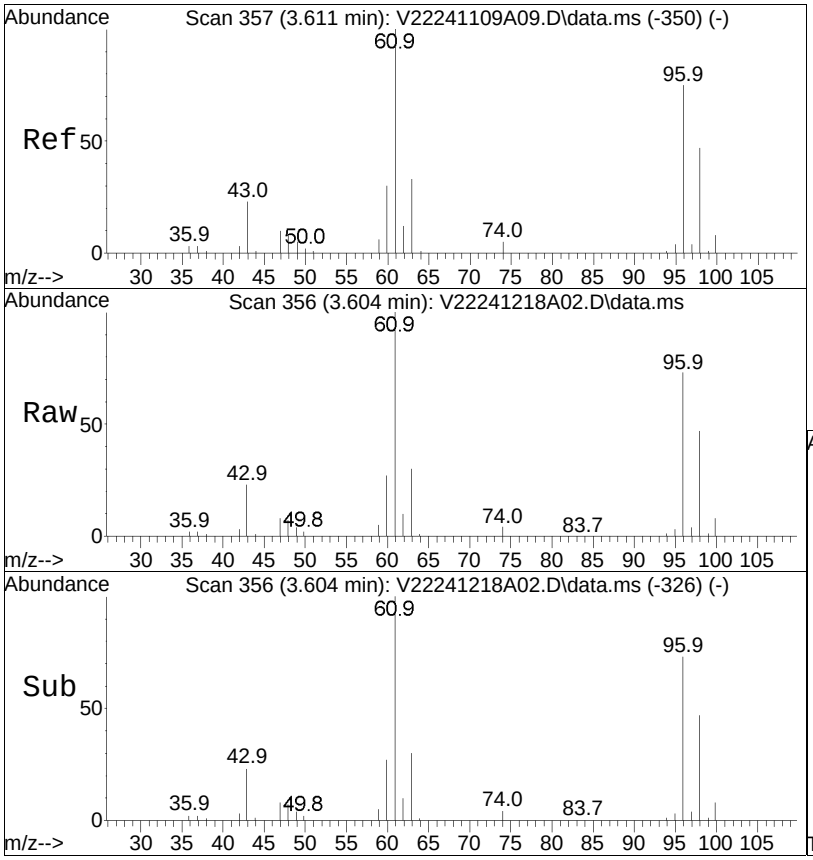


#17
Acetone
Concen: 9.58 ug/L
RT: 3.493 min Scan# 339
Delta R.T. -0.000 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion: 43 Resp: 11270

Ion	Ratio	Lower	Upper
43	100		
58	26.4	23.1	34.7

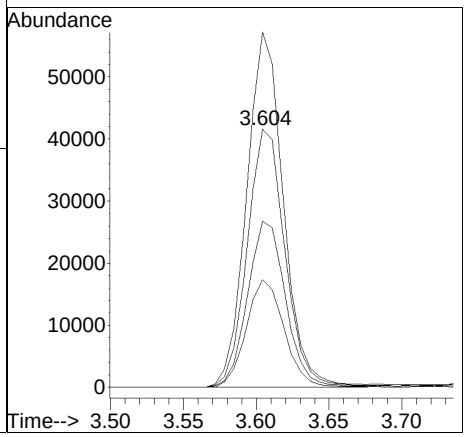


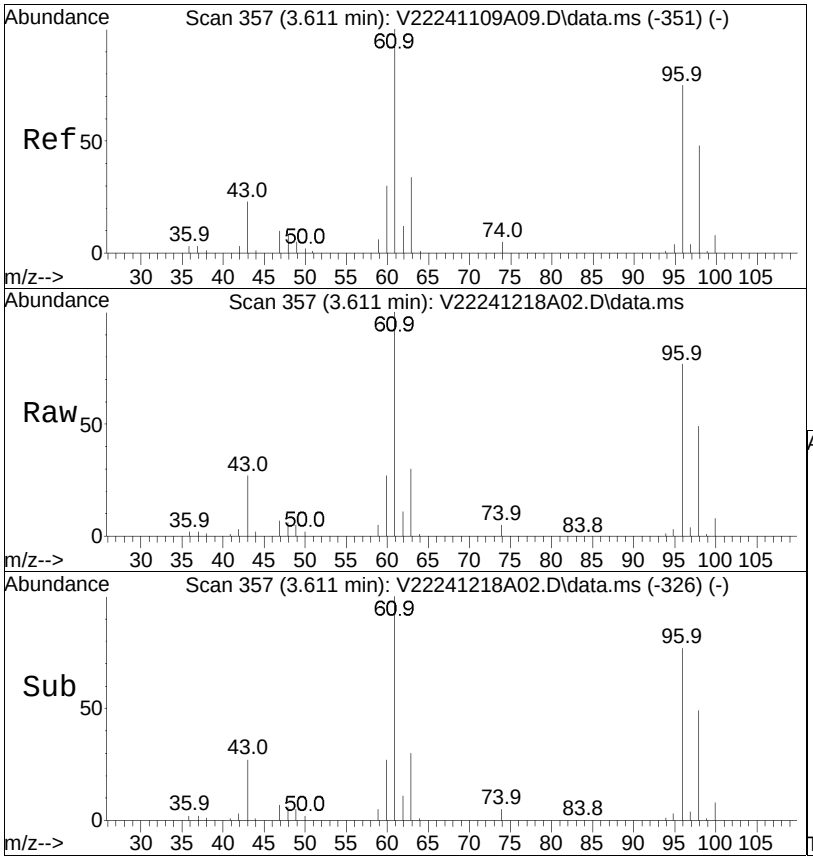


#18
trans-1,2-Dichloroethene
Concen: 9.86 ug/L
RT: 3.604 min Scan# 356
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion: 96 Resp: 75256

Ion	Ratio	Lower	Upper
96	100		
61	133.5	81.6	169.6
98	64.8	41.8	86.8
63	42.0	26.3	54.7

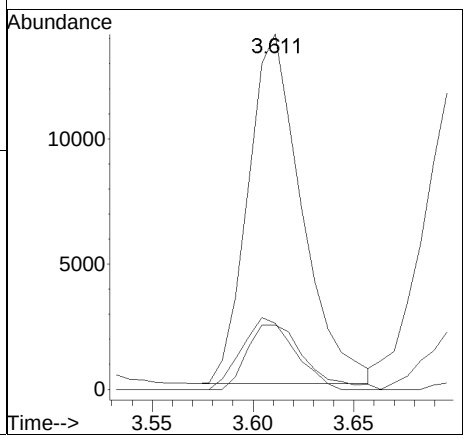


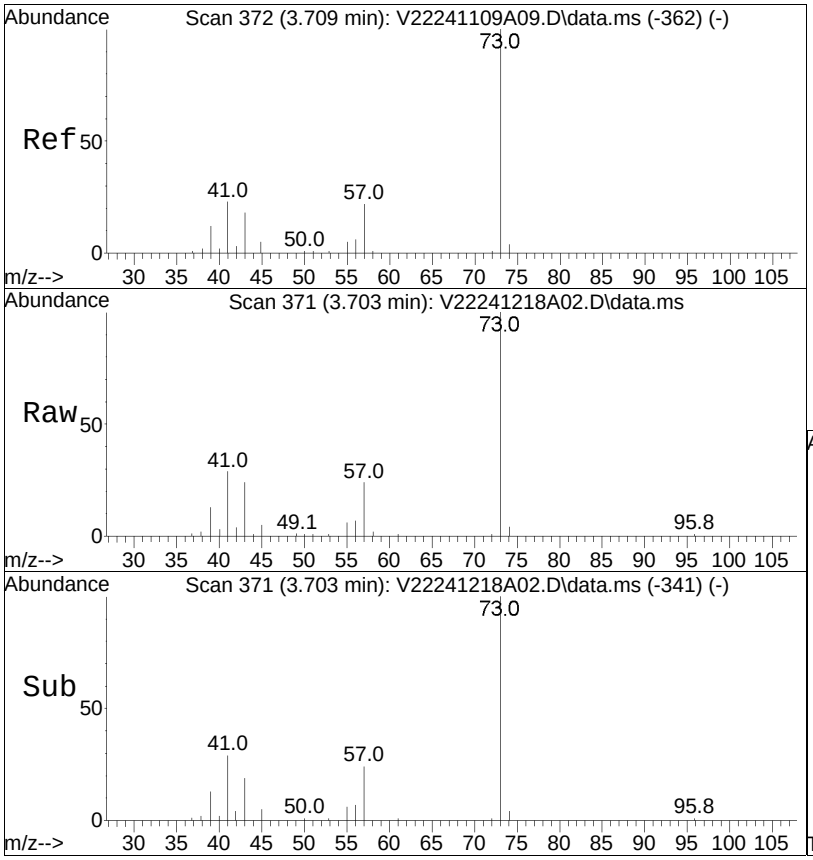


#19
Methyl acetate
Concen: 9.04 ug/L
RT: 3.611 min Scan# 357
Delta R.T. -0.000 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion: 43 Resp: 25841

Ion	Ratio	Lower	Upper
43	100		
74	19.7	21.8	32.6#
59	20.1	18.1	27.1

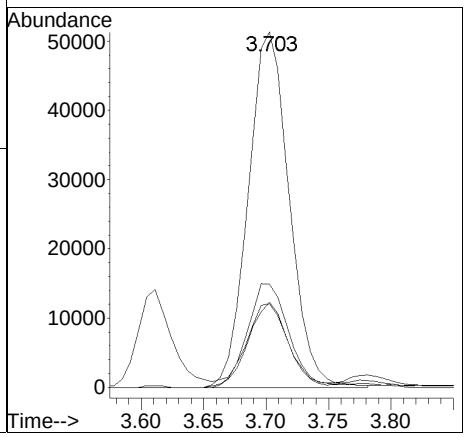


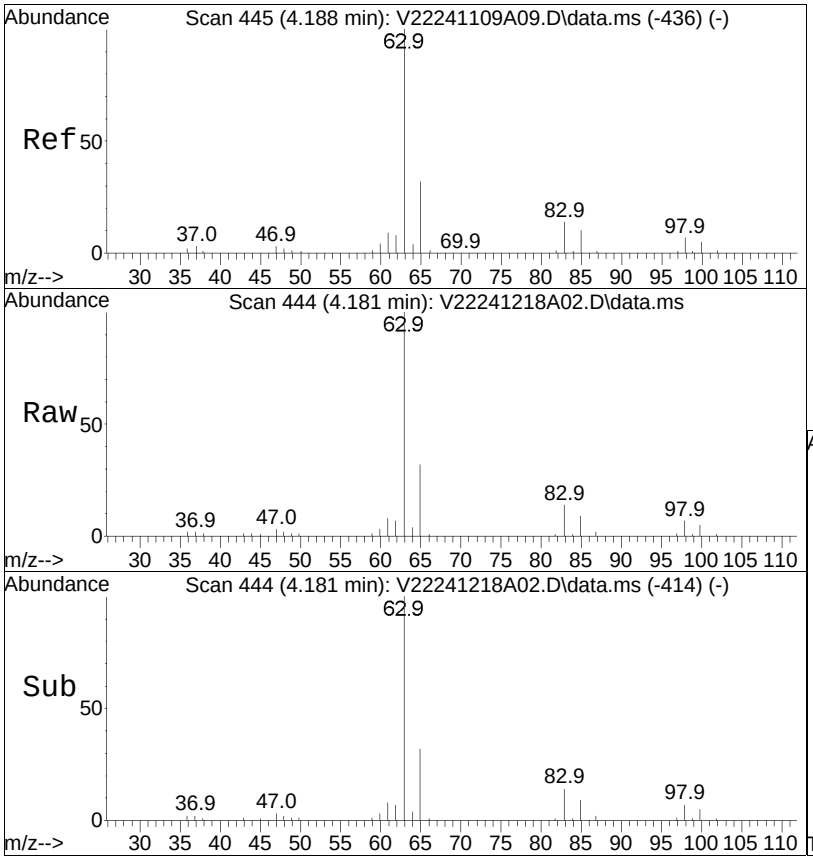


#21
Methyl tert-butyl ether
Concen: 8.74 ug/L
RT: 3.703 min Scan# 371
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion: 73 Resp: 117024

Ion	Ratio	Lower	Upper
73	100		
57	23.5	13.6	28.2
43	23.2	12.7	26.5
41	29.4	11.4	23.8#

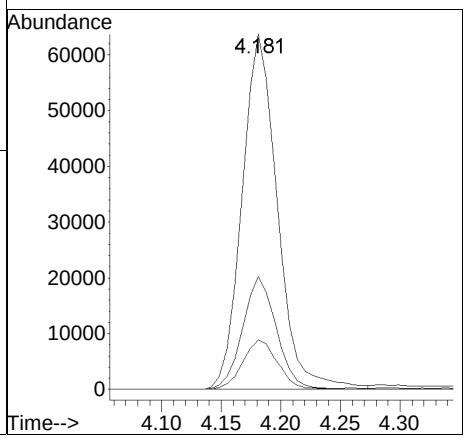


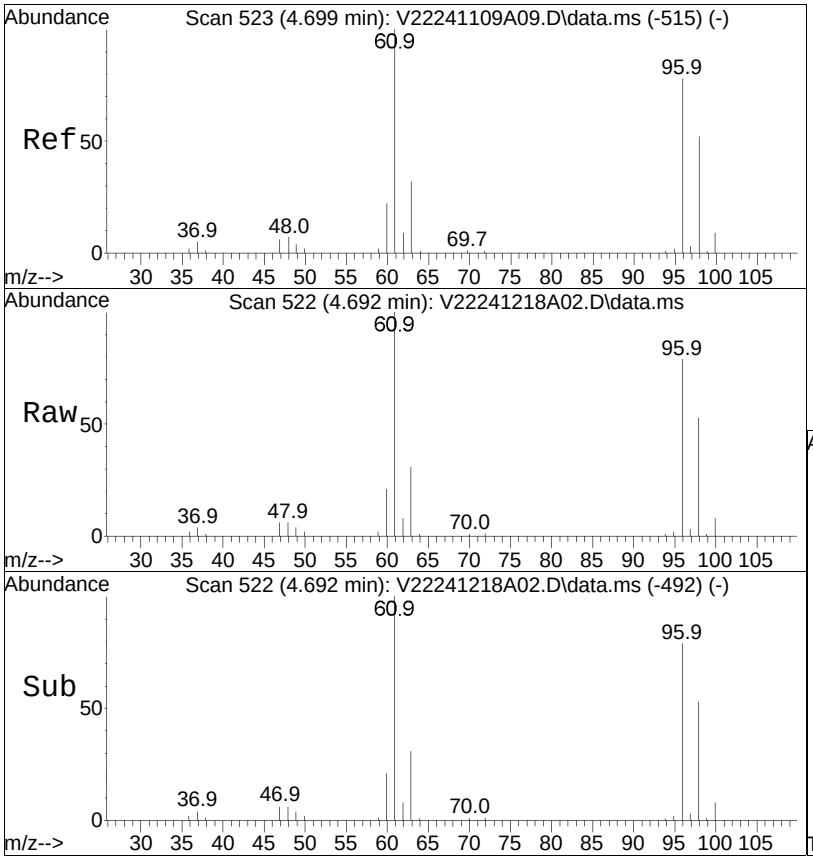


#25
1,1-Dichloroethane
Concen: 9.53 ug/L
RT: 4.181 min Scan# 444
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion: 63 Resp: 131682

Ion	Ratio	Lower	Upper
63	100		
65	30.2	11.9	51.9
83	13.8	0.0	34.2

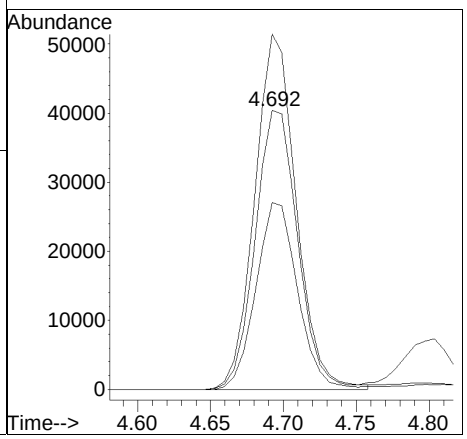


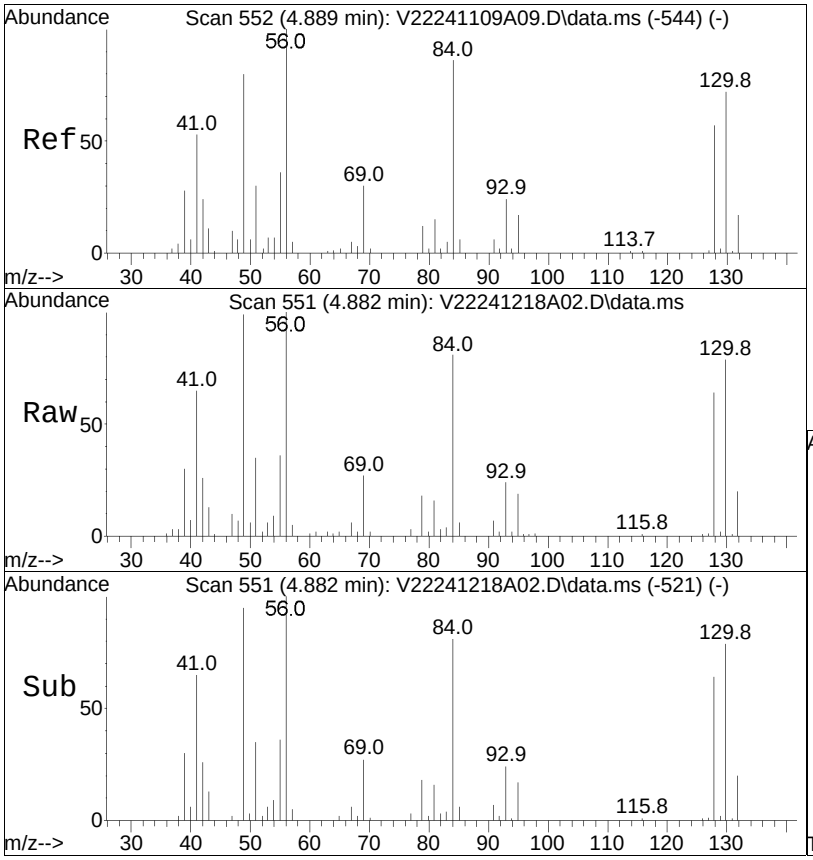


#30
cis-1,2-Dichloroethene
Concen: 9.73 ug/L
RT: 4.692 min Scan# 522
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion: 96 Resp: 82156

Ion	Ratio	Lower	Upper
96	100		
61	123.4	90.3	135.5
98	65.4	50.8	76.2

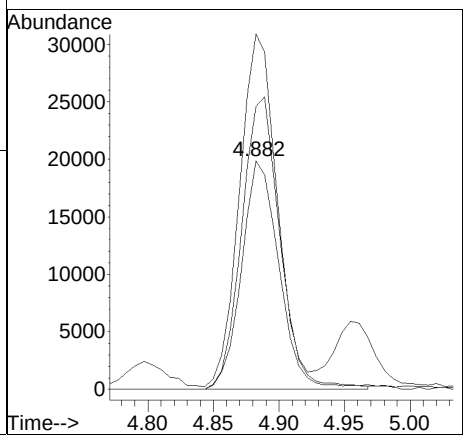


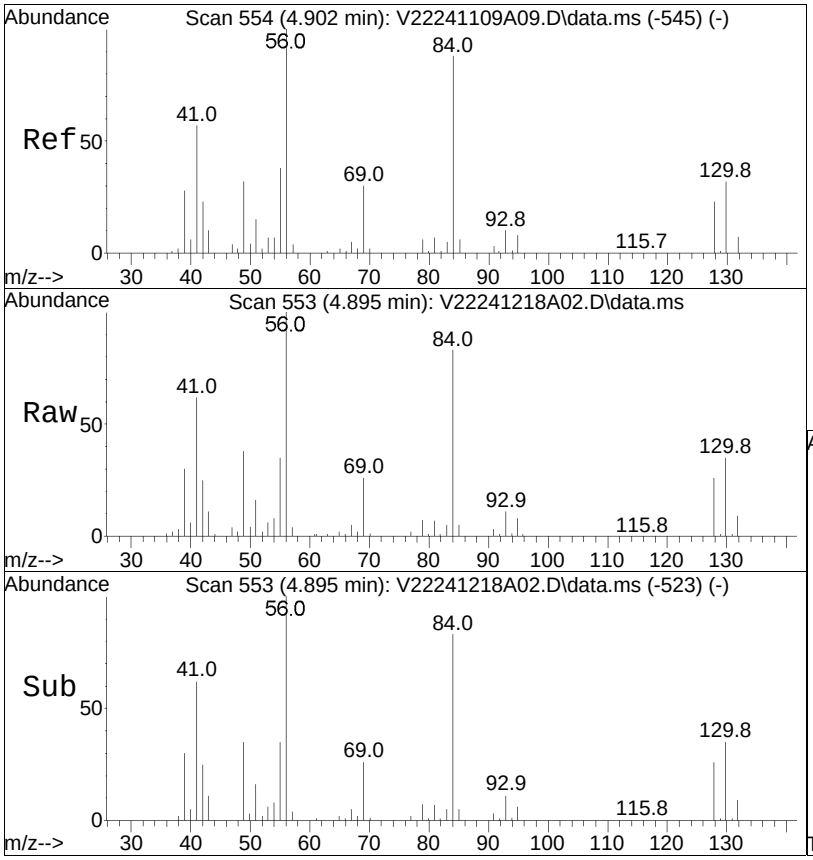


#32
Bromochloromethane
Concen: 9.38 ug/L
RT: 4.882 min Scan# 551
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion:128 Resp: 39832

Ion	Ratio	Lower	Upper
128	100		
49	153.5	104.4	156.6
130	131.1	103.9	155.9

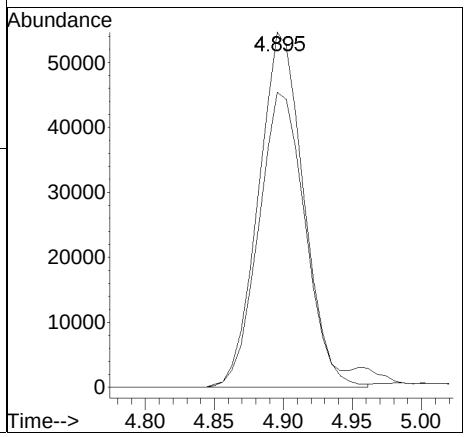


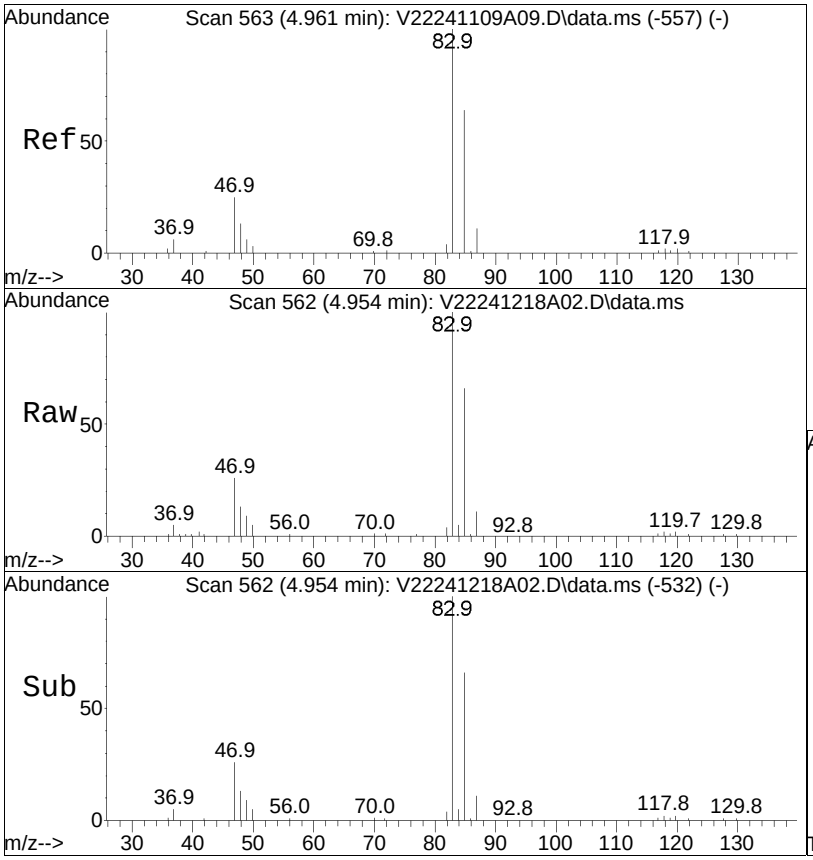


#33
Cyclohexane
Concen: 9.48 ug/L
RT: 4.895 min Scan# 553
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion: 56 Resp: 124795

Ion	Ratio	Lower	Upper
56	100		
84	86.0	66.0	137.2

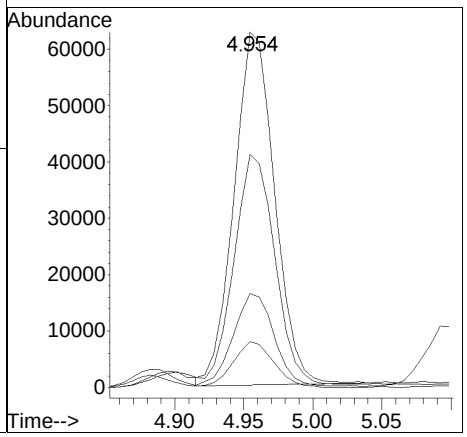


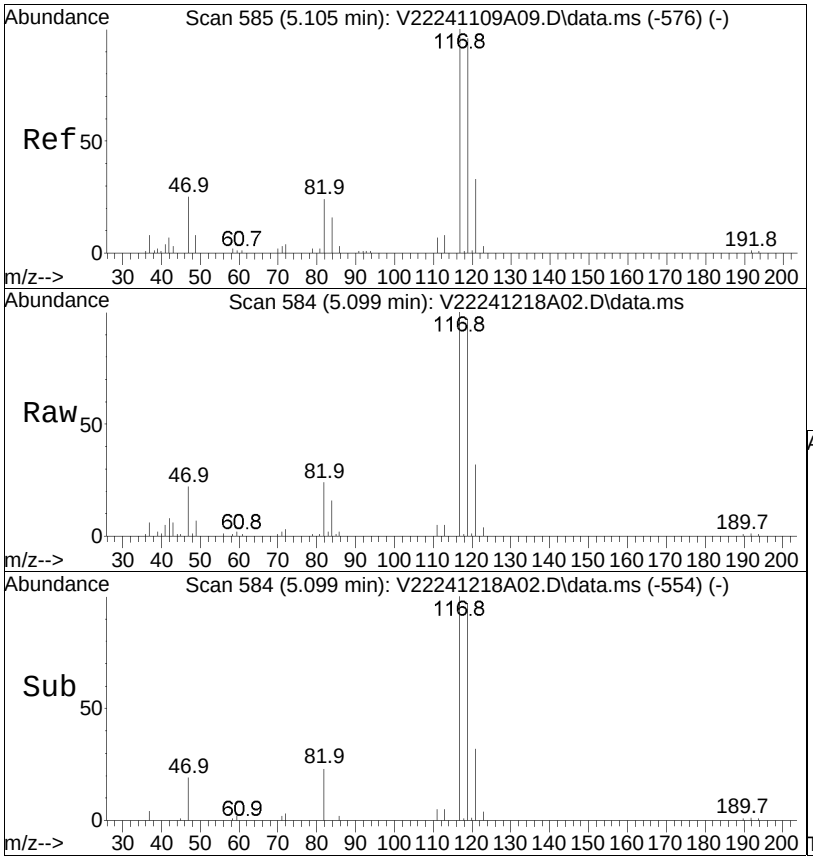


#34
Chloroform
Concen: 9.31 ug/L
RT: 4.954 min Scan# 562
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion: 83 Resp: 128582

Ion	Ratio	Lower	Upper
83	100		
85	65.1	42.4	88.2
47	26.3	14.0	29.0
48	13.0	6.9	14.3

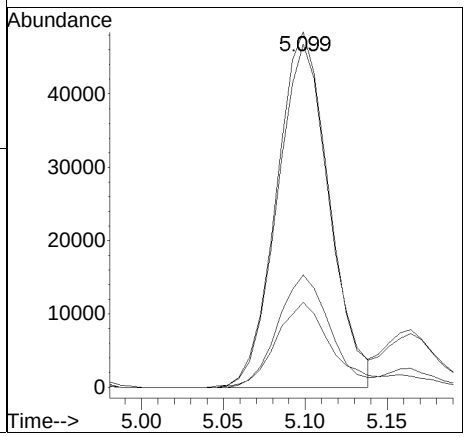


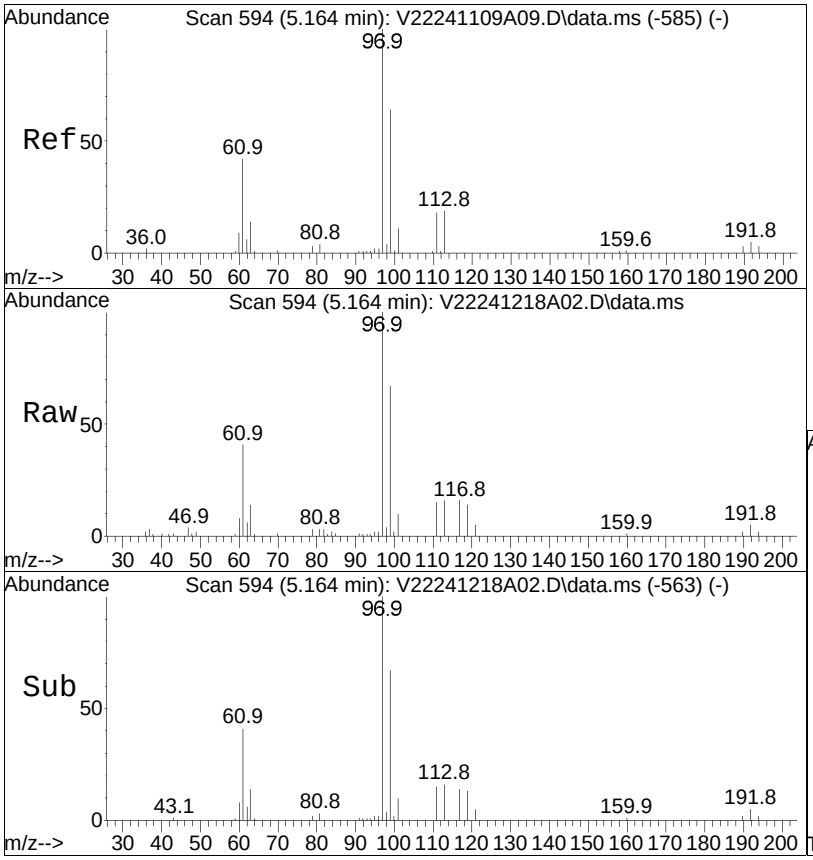


#36
Carbon tetrachloride
Concen: 9.66 ug/L
RT: 5.099 min Scan# 584
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion:117 Resp: 107974

Ion	Ratio	Lower	Upper
117	100		
119	95.8	62.1	129.1
121	31.1	20.3	42.3
82	25.2	15.4	32.0

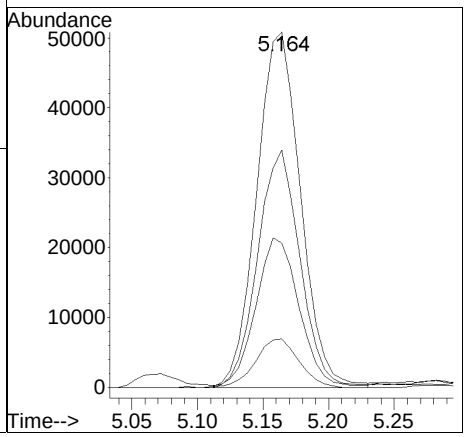


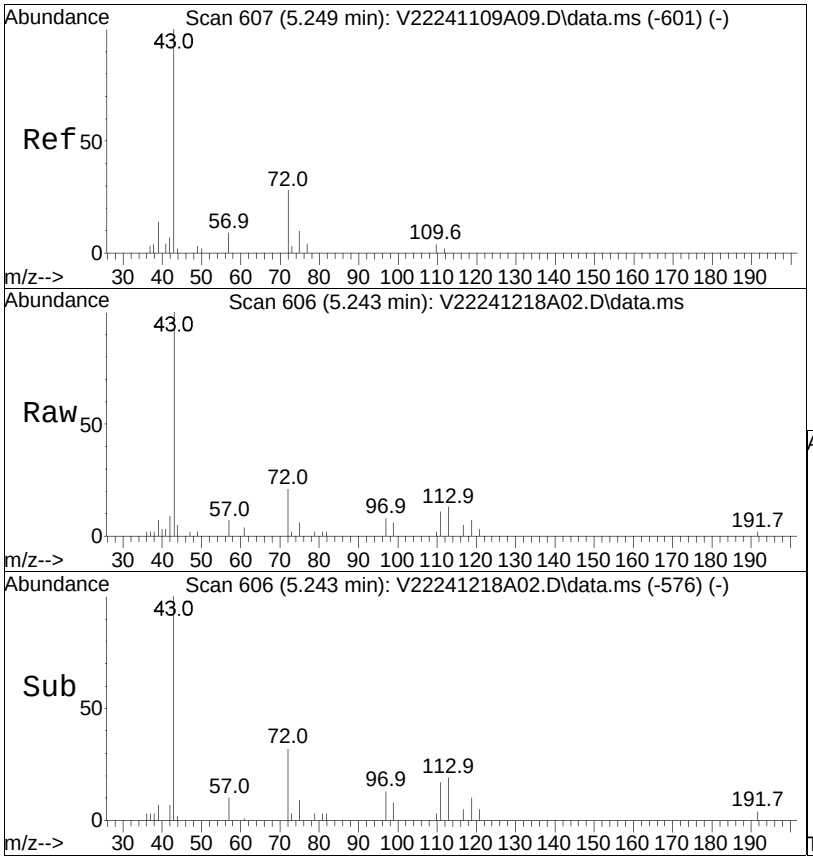


#39
1,1,1-Trichloroethane
Concen: 9.39 ug/L
RT: 5.164 min Scan# 594
Delta R.T. -0.000 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion: 97 Resp: 118307

Ion	Ratio	Lower	Upper
97	100		
99	64.6	42.4	88.0
61	41.0	26.0	54.0
63	13.5	8.3	17.3

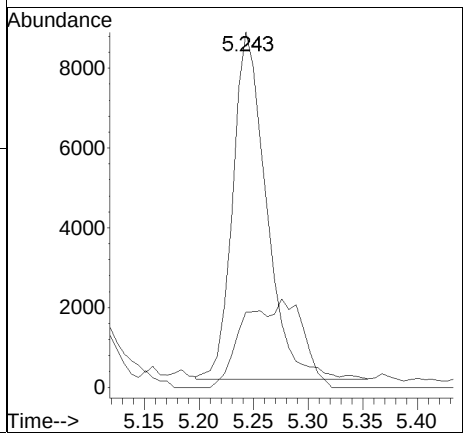


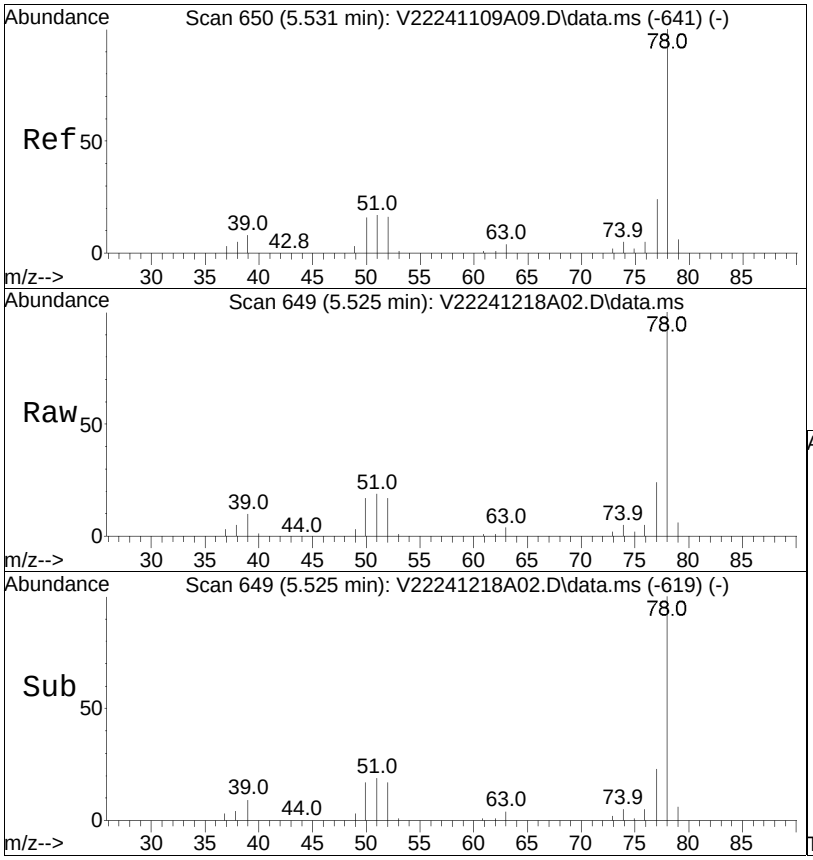


#41
2-Butanone
Concen: 11.12 ug/L
RT: 5.243 min Scan# 606
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion: 43 Resp: 18578

Ion	Ratio	Lower	Upper
43	100		
72	21.6	45.8	68.8#

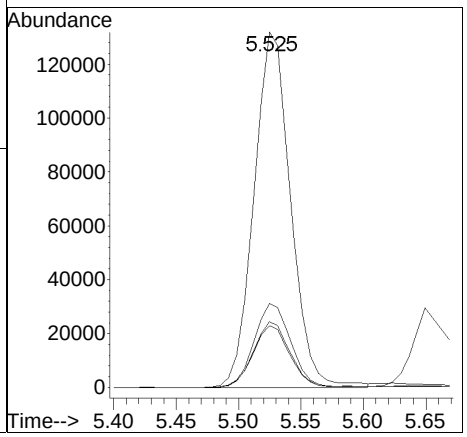


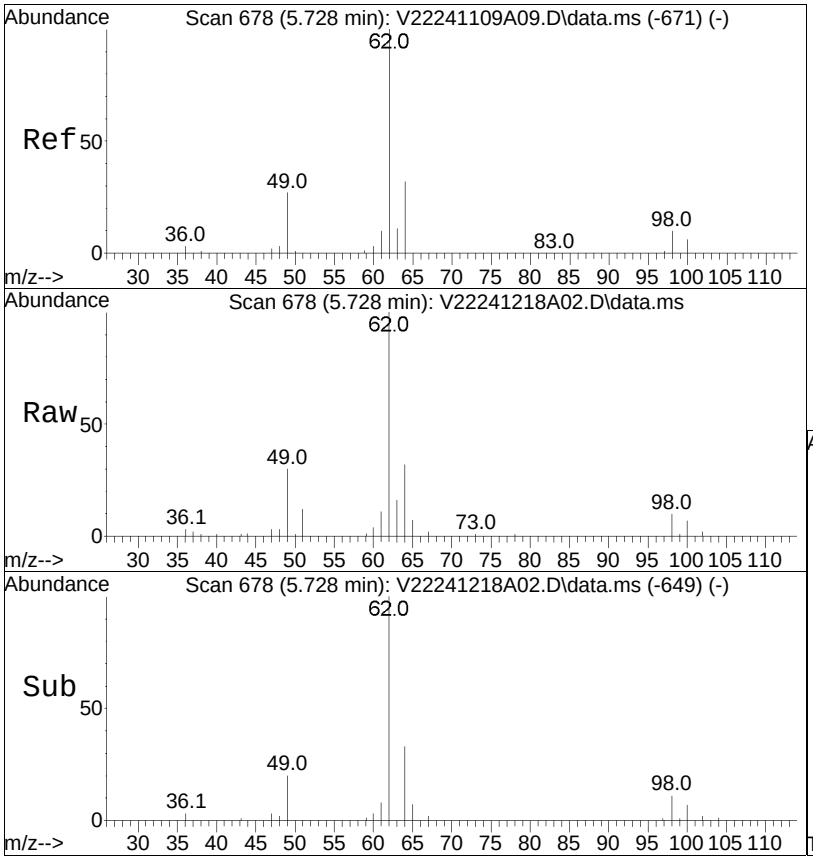


#44
Benzene
Concen: 8.95 ug/L
RT: 5.525 min Scan# 649
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion: 78 Resp: 269002

Ion	Ratio	Lower	Upper
78	100		
77	23.8	15.4	32.0
51	18.4	9.8	20.4
52	17.5	9.2	19.2

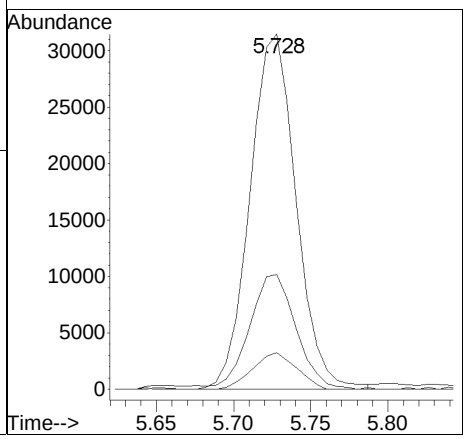


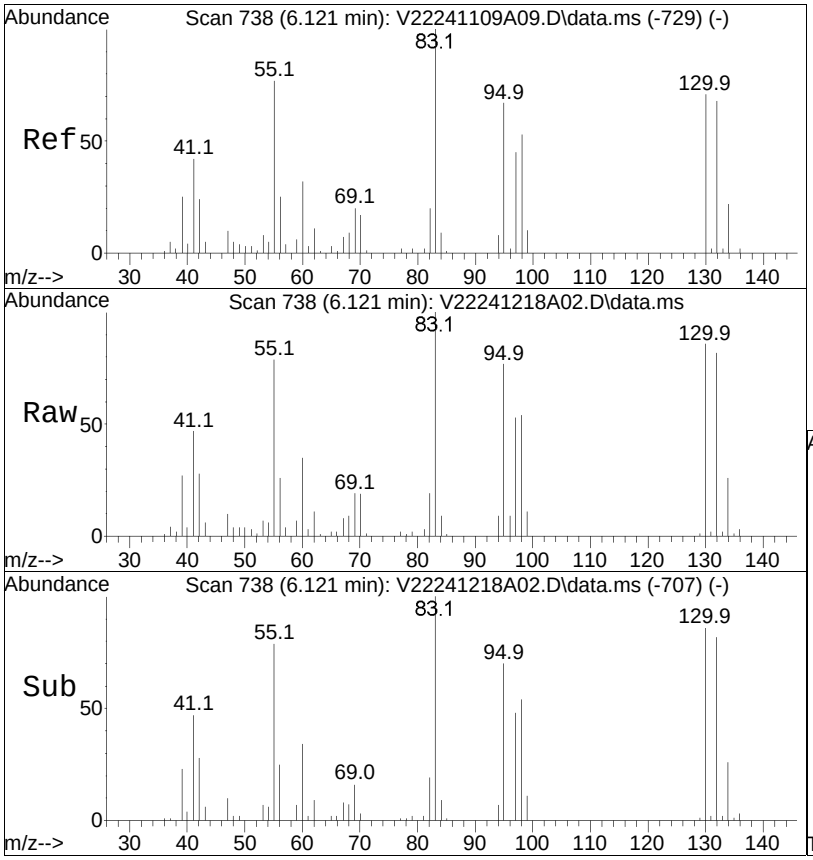


#47
1,2-Dichloroethane
Concen: 8.96 ug/L
RT: 5.728 min Scan# 678
Delta R.T. -0.000 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion: 62 Resp: 65422

Ion	Ratio	Lower	Upper
62	100		
64	32.7	12.3	52.3
98	9.9	0.0	30.3

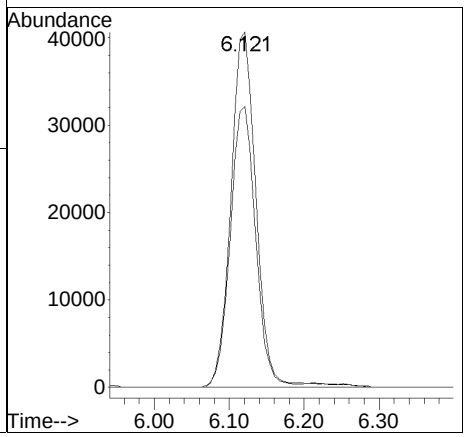


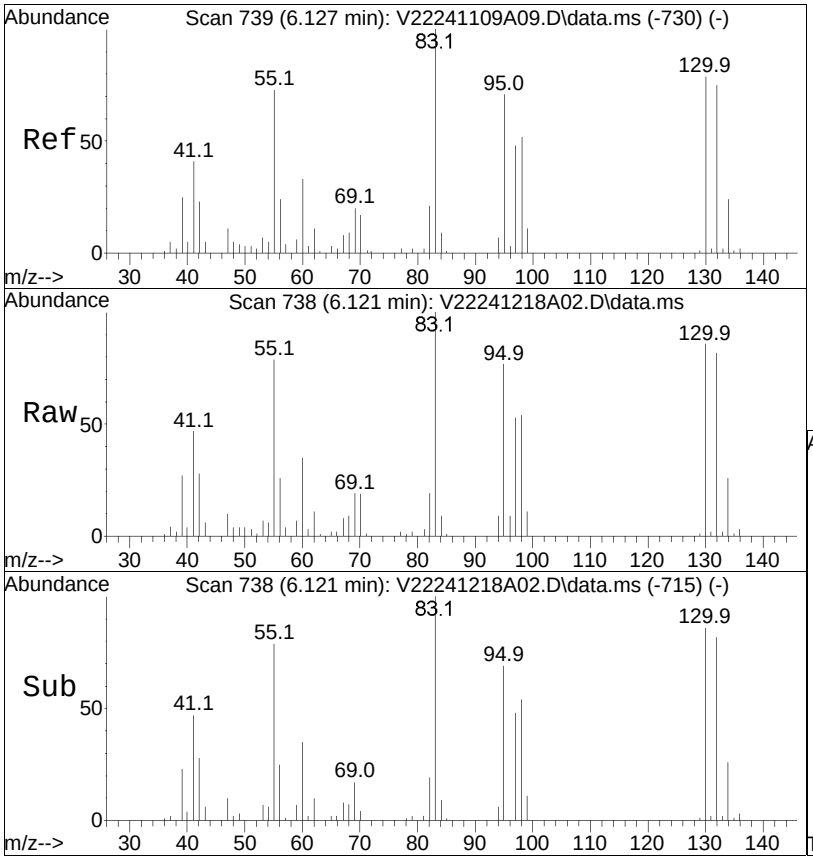


#50
Methyl cyclohexane
Concen: 8.69 ug/L
RT: 6.121 min Scan# 738
Delta R.T. -0.000 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion: 83 Resp: 95768

Ion	Ratio	Lower	Upper
83	100		
55	79.0	55.4	83.2

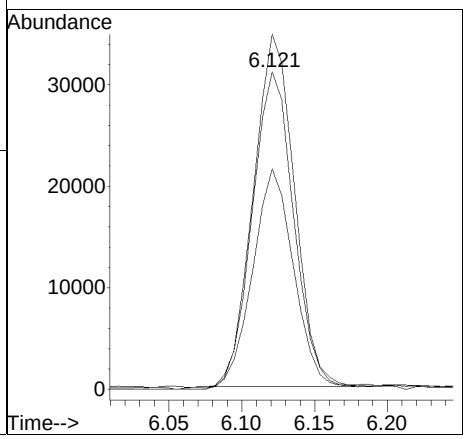


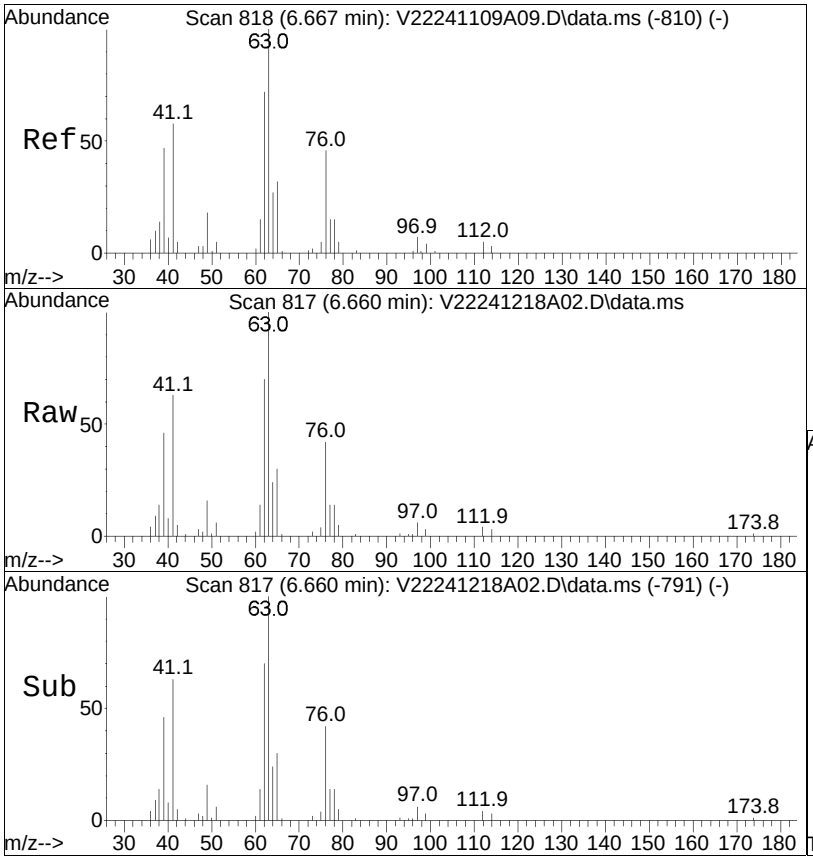


#51
Trichloroethene
Concen: 8.74 ug/L
RT: 6.121 min Scan# 738
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion: 95 Resp: 61145

Ion	Ratio	Lower	Upper
95	100		
97	71.3	55.0	82.4
130	114.9	89.2	133.8

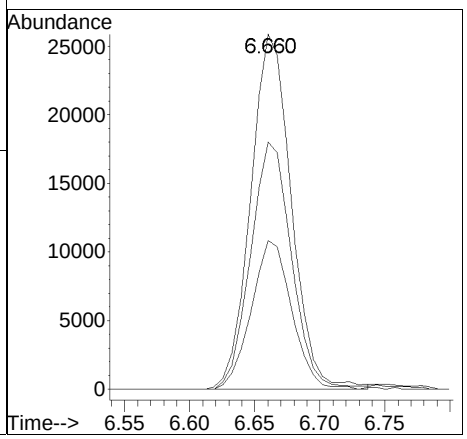


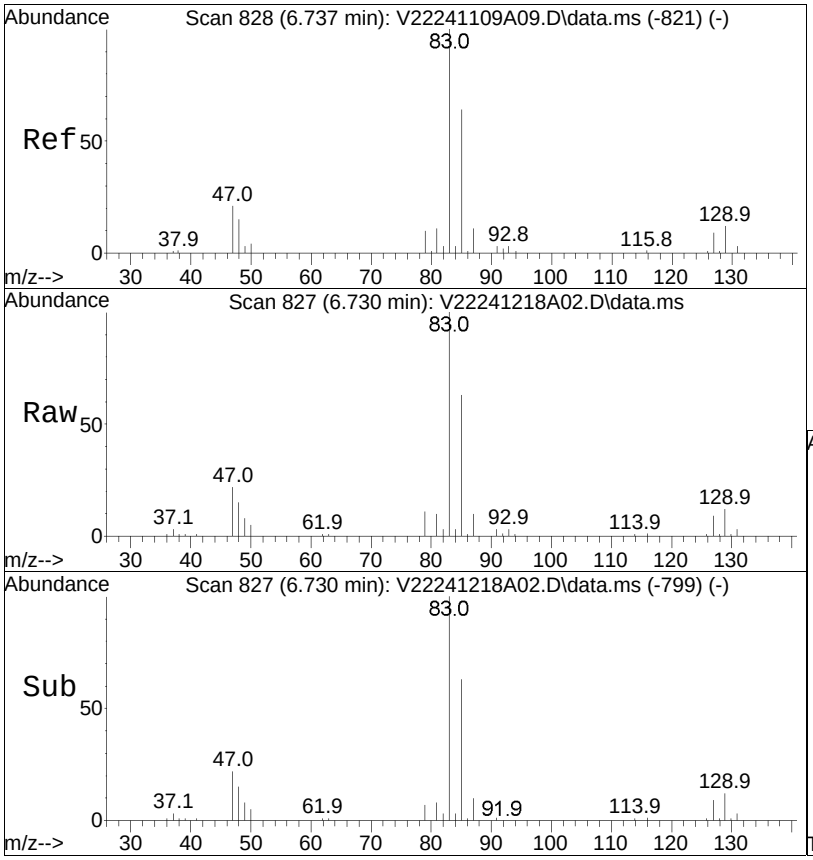


#54
1,2-Dichloropropane
Concen: 9.32 ug/L
RT: 6.660 min Scan# 817
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion: 63 Resp: 56305

Ion	Ratio	Lower	Upper
63	100		
62	70.1	56.9	85.3
76	41.7	35.8	53.8

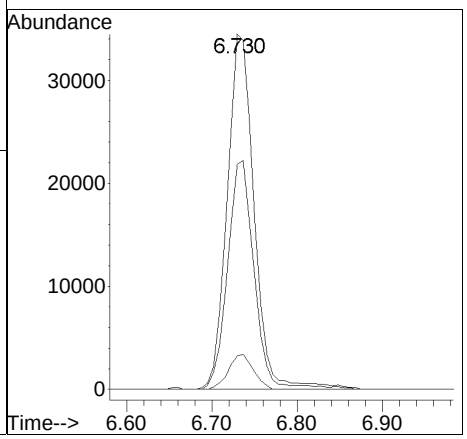


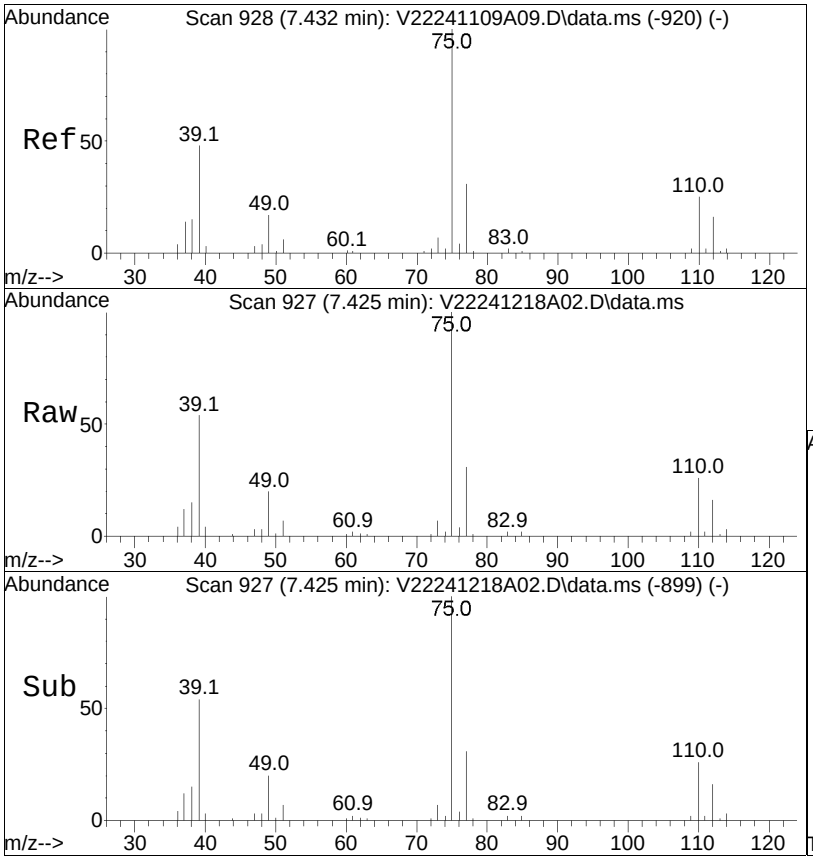


#57
Bromodichloromethane
Concen: 9.06 ug/L
RT: 6.730 min Scan# 827
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion: 83 Resp: 76035

Ion	Ratio	Lower	Upper
83	100		
85	63.5	51.6	77.4
127	9.1	7.4	11.0

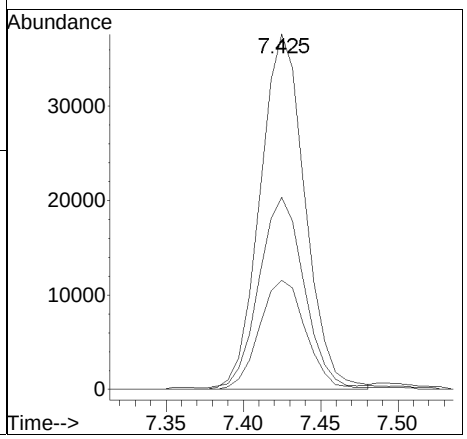


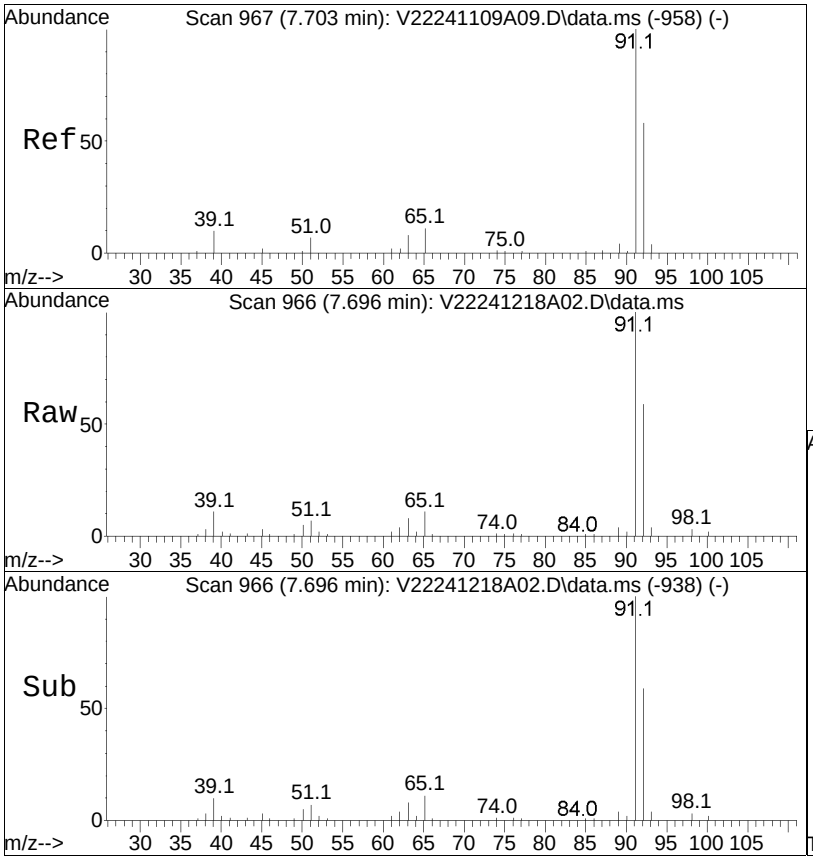


#61
cis-1,3-Dichloropropene
Concen: 8.71 ug/L
RT: 7.425 min Scan# 927
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion: 75 Resp: 76135

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.6	38.4
39	55.8	35.4	53.0#

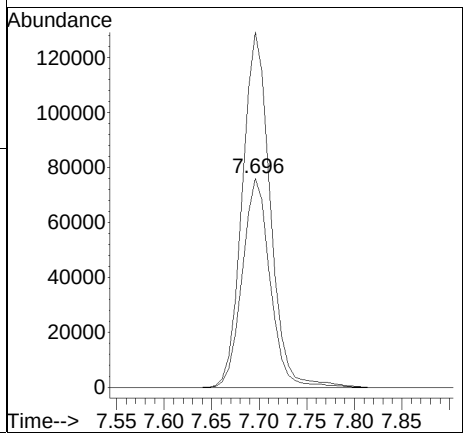


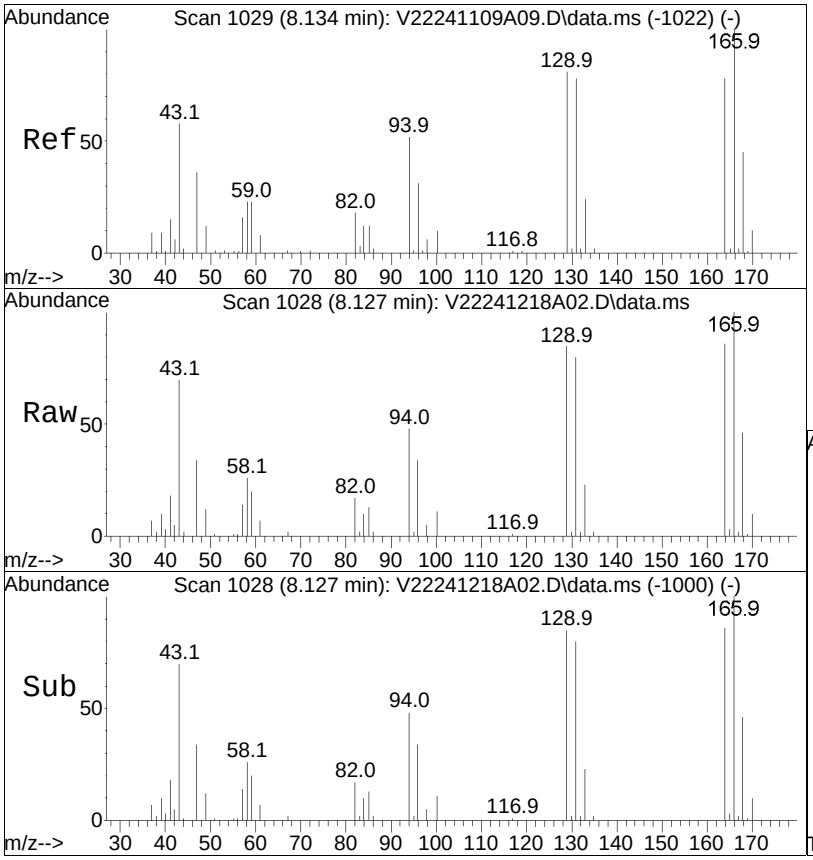


#64
Toluene
Concen: 9.32 ug/L
RT: 7.696 min Scan# 966
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion: 92 Resp: 154728

Ion	Ratio	Lower	Upper
92	100		
91	170.6	137.0	205.6

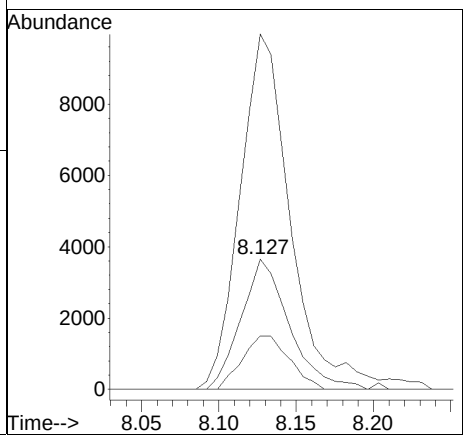


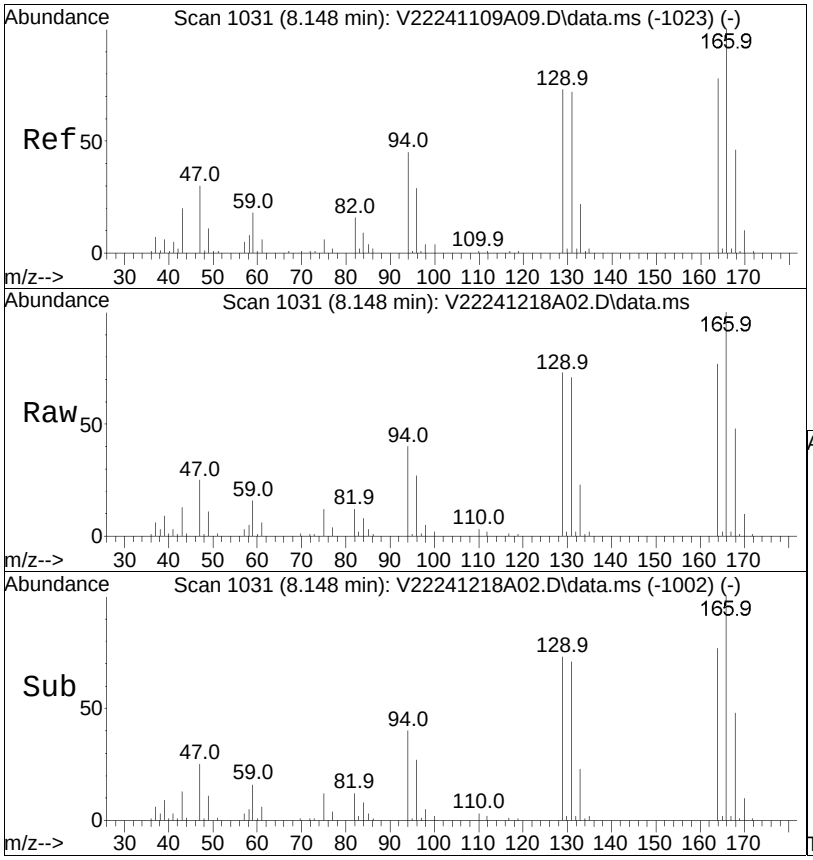


#65
4-Methyl-2-pentanone
Concen: 6.96 ug/L
RT: 8.127 min Scan# 1028
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion: 58 Resp: 7947

Ion	Ratio	Lower	Upper
58	100		
100	40.1	36.2	54.4
43	289.0	181.8	272.8#

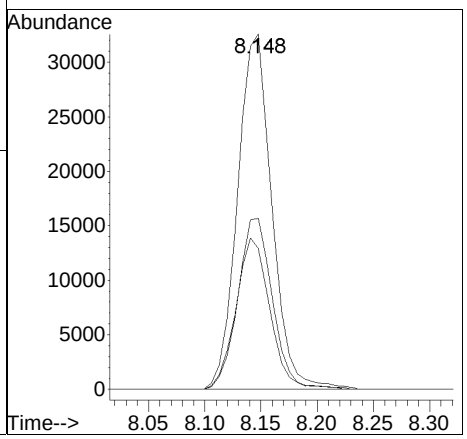


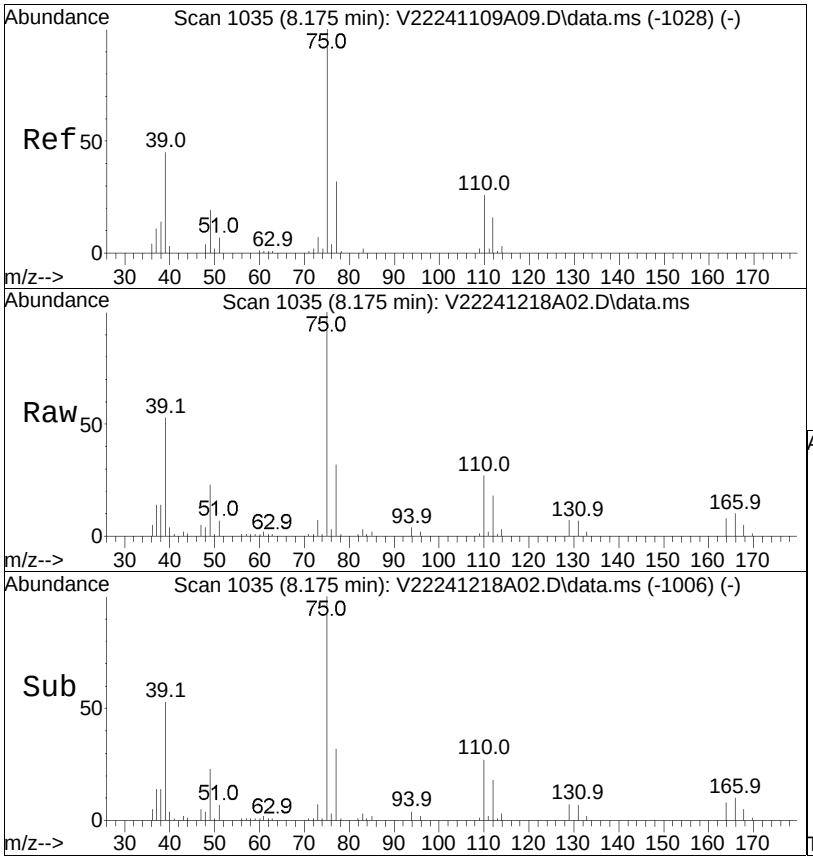


#66
Tetrachloroethene
Concen: 9.10 ug/L
RT: 8.148 min Scan# 1031
Delta R.T. -0.000 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion:166 Resp: 69263

Ion	Ratio	Lower	Upper
166	100		
168	48.6	27.8	67.8
94	42.4	16.7	56.7

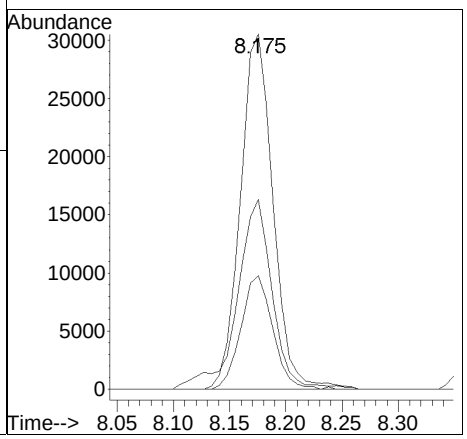


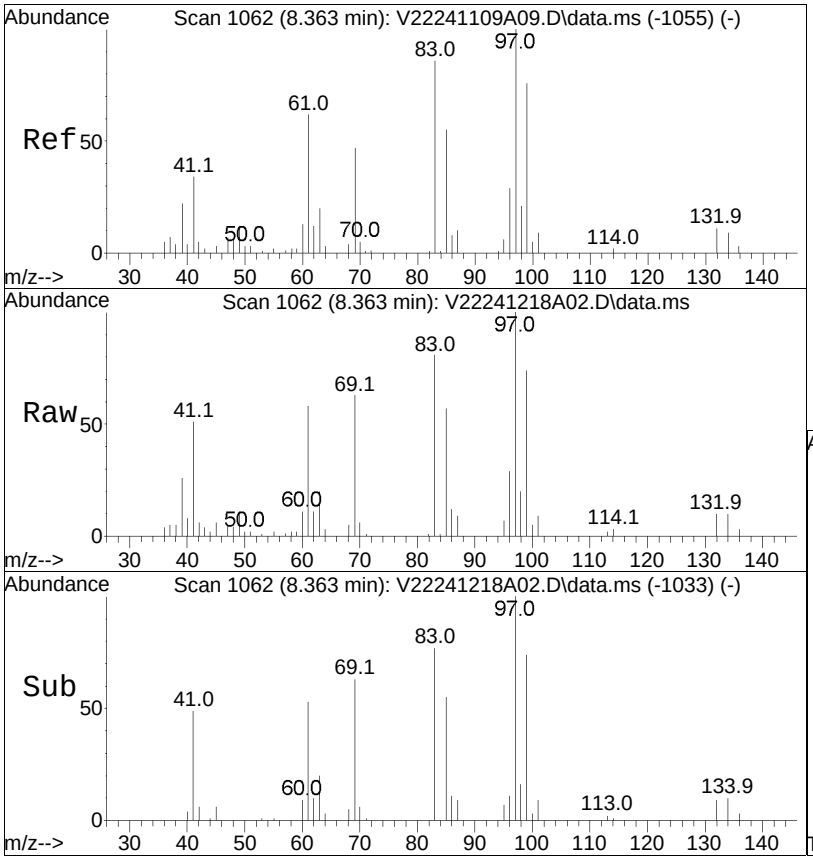


#68
trans-1,3-Dichloropropene
Concen: 8.17 ug/L
RT: 8.175 min Scan# 1035
Delta R.T. -0.000 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion: 75 Resp: 61922

Ion	Ratio	Lower	Upper
75	100		
77	31.2	11.9	51.9
39	57.5	27.4	67.4

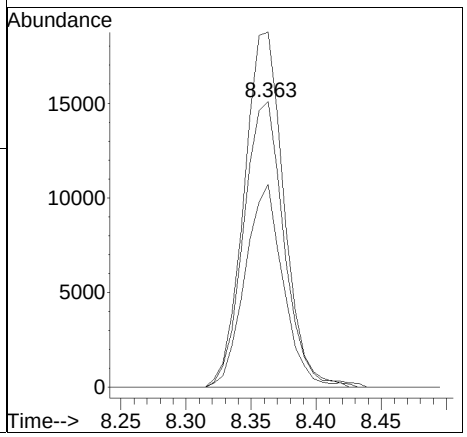


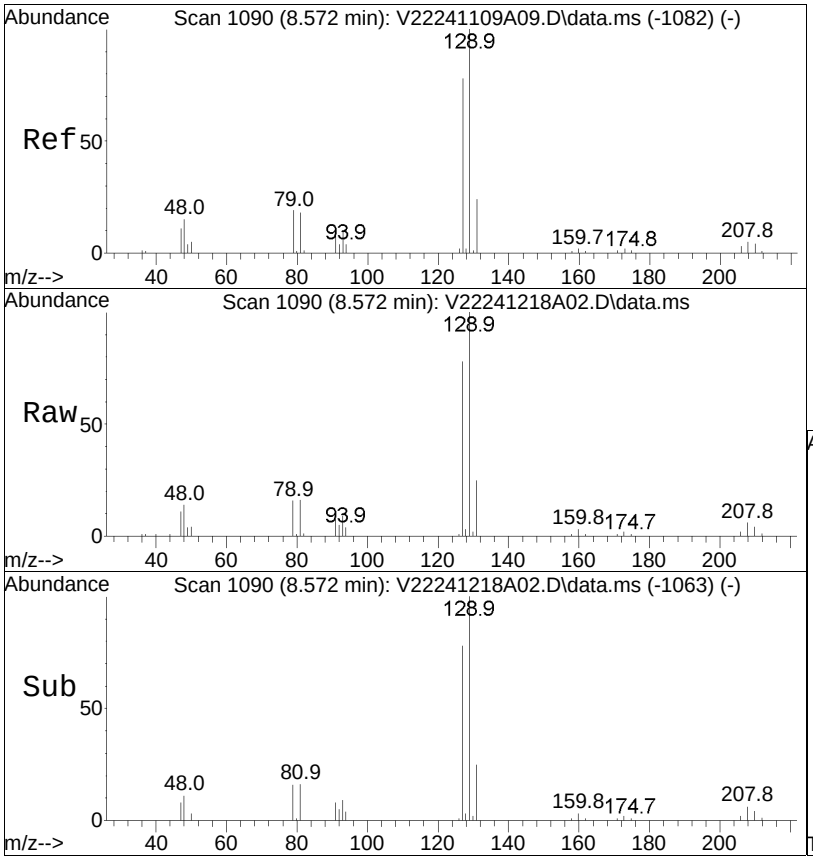


#71
1,1,2-Trichloroethane
Concen: 8.39 ug/L
RT: 8.363 min Scan# 1062
Delta R.T. -0.000 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion: 83 Resp: 32519

Ion	Ratio	Lower	Upper
83	100		
97	123.6	103.4	143.4
85	67.4	47.9	87.9

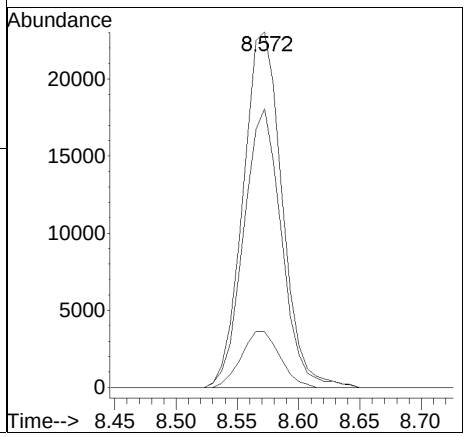


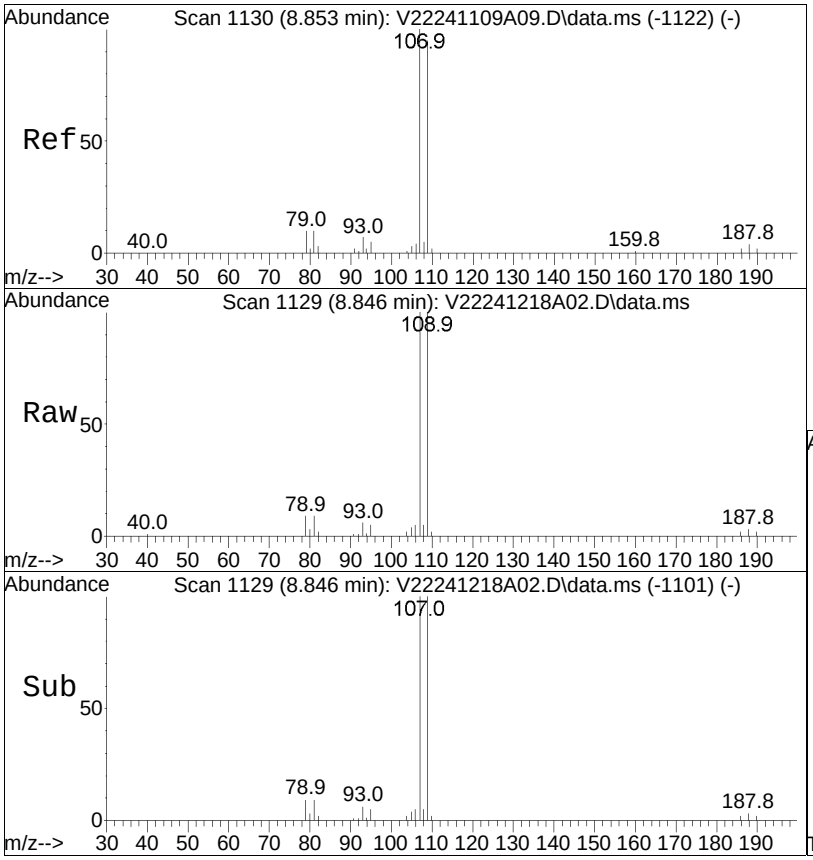


#72
Chlorodibromomethane
Concen: 7.99 ug/L
RT: 8.572 min Scan# 1090
Delta R.T. -0.000 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion:129 Resp: 50966

Ion	Ratio	Lower	Upper
129	100		
81	15.6	0.0	33.8
127	76.5	57.1	97.1

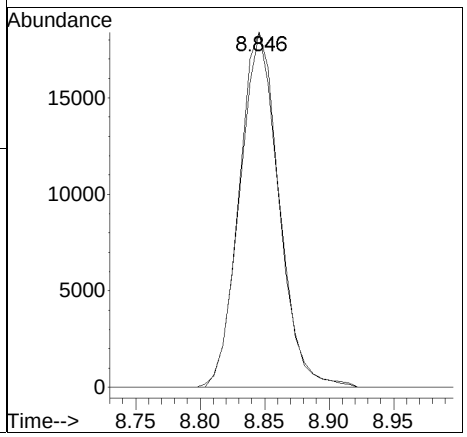


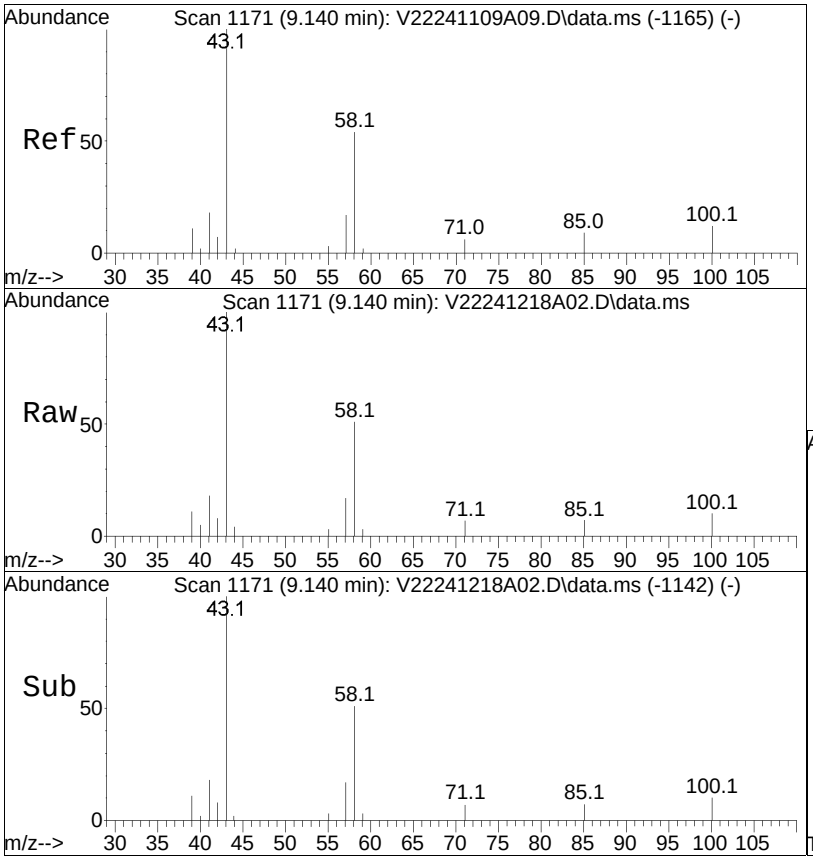


#74
1,2-Dibromoethane
Concen: 8.38 ug/L
RT: 8.846 min Scan# 1129
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion:107 Resp: 39932

Ion	Ratio	Lower	Upper
107	100		
109	96.6	75.1	112.7

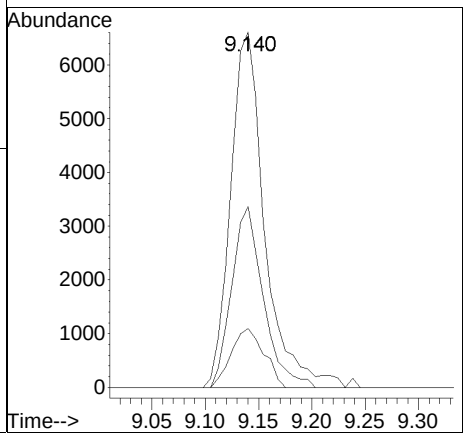


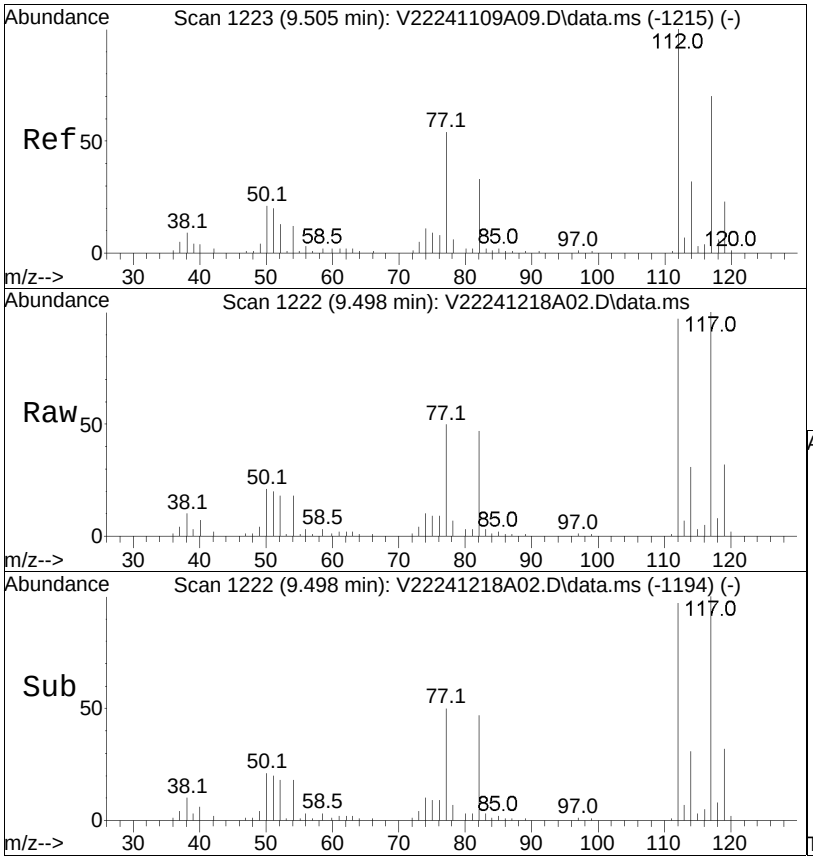


#76
2-Hexanone
Concen: 7.94 ug/L
RT: 9.140 min Scan# 1171
Delta R.T. -0.000 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion: 43 Resp: 14754

Ion	Ratio	Lower	Upper
43	100		
58	47.1	47.6	71.4#
57	16.0	16.6	24.8#

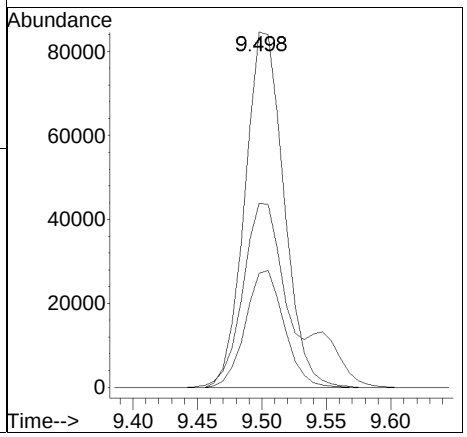


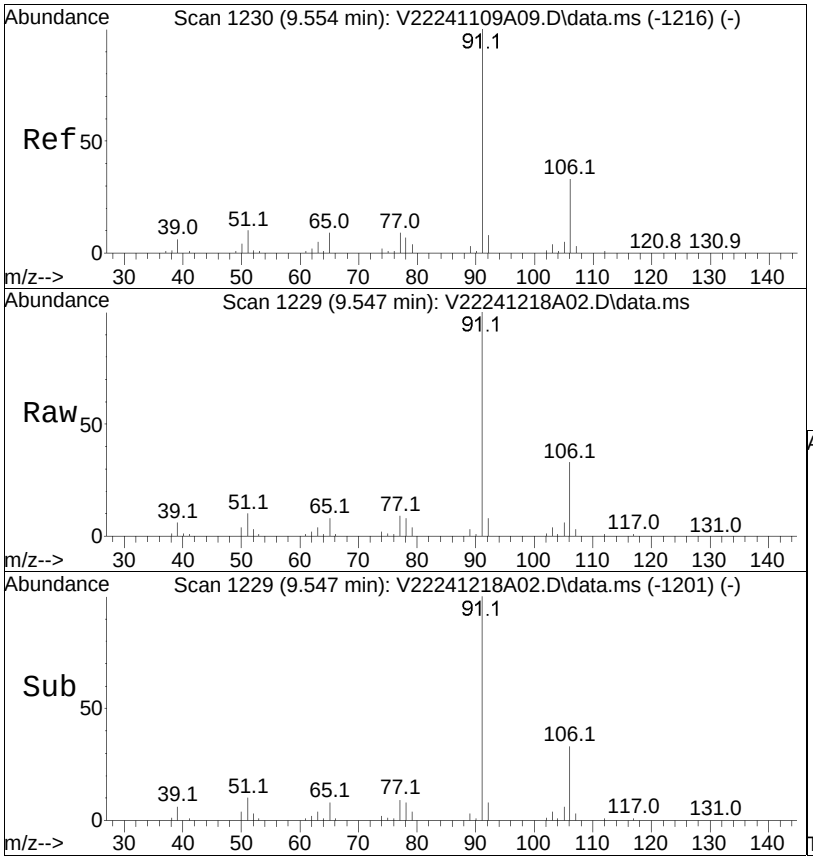


#77
Chlorobenzene
Concen: 9.30 ug/L
RT: 9.498 min Scan# 1222
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion:112 Resp: 178472

Ion	Ratio	Lower	Upper
112	100		
77	55.6	55.4	83.0
114	32.6	26.2	39.4

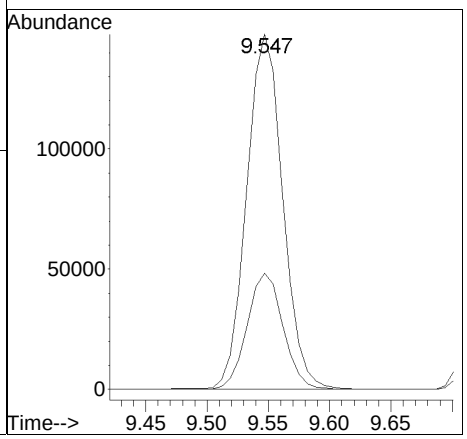


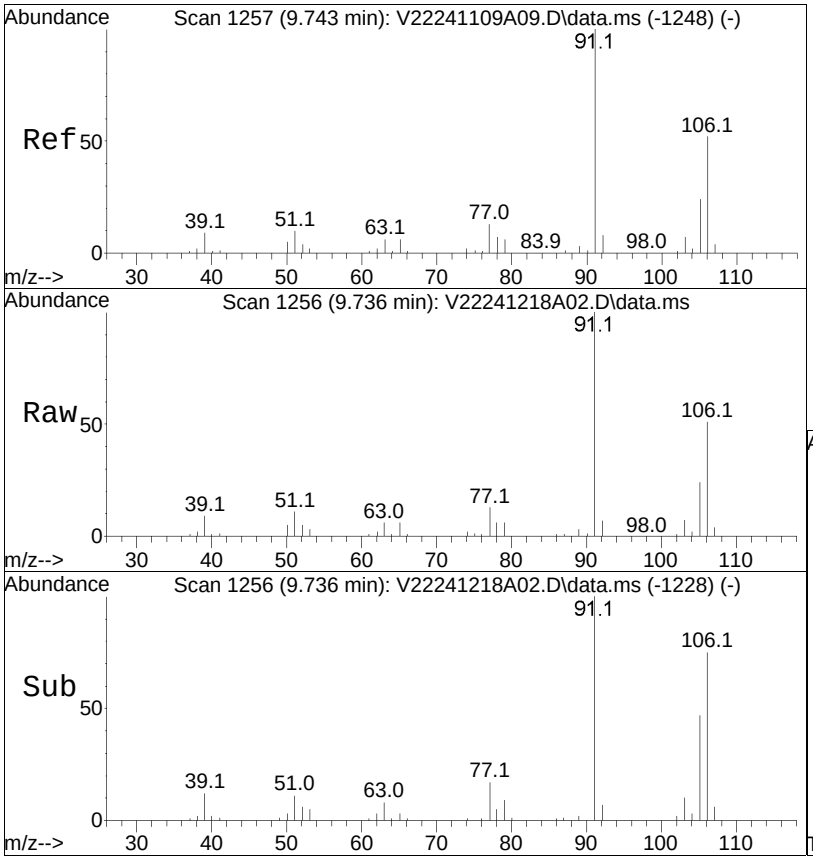


#78
Ethylbenzene
Concen: 9.18 ug/L
RT: 9.547 min Scan# 1229
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion: 91 Resp: 303085

Ion	Ratio	Lower	Upper
91	100		
106	32.5	25.8	38.6

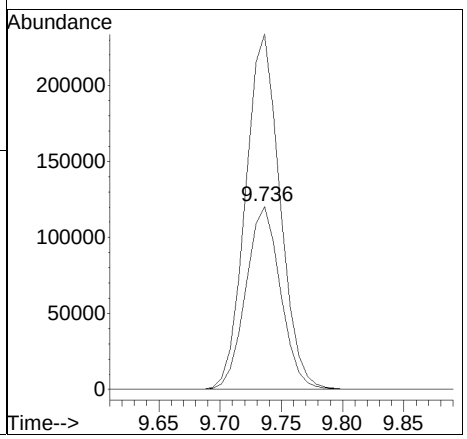


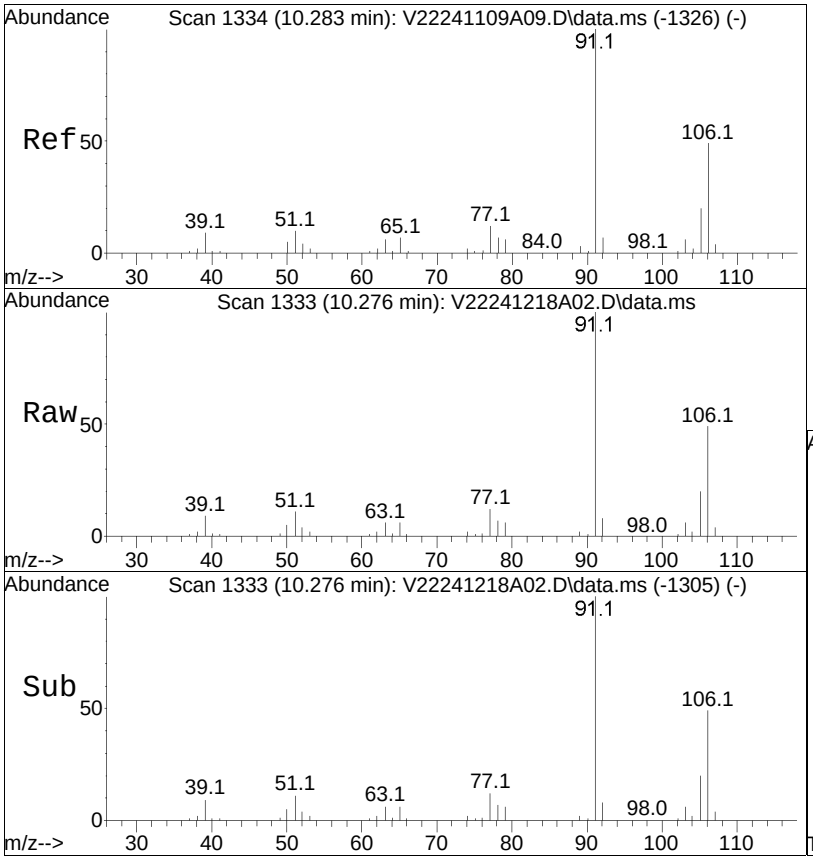


#80
p/m Xylene
Concen: 17.39 ug/L
RT: 9.736 min Scan# 1256
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion:106 Resp: 236990

Ion	Ratio	Lower	Upper
106	100		
91	193.4	156.0	234.0

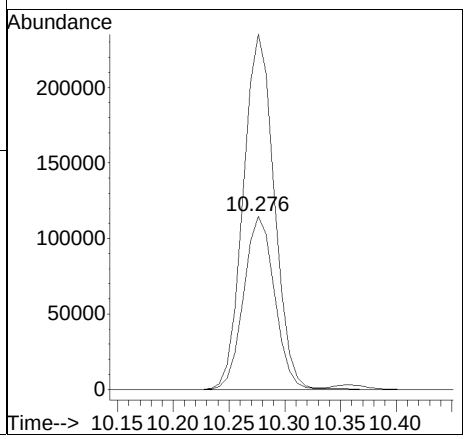


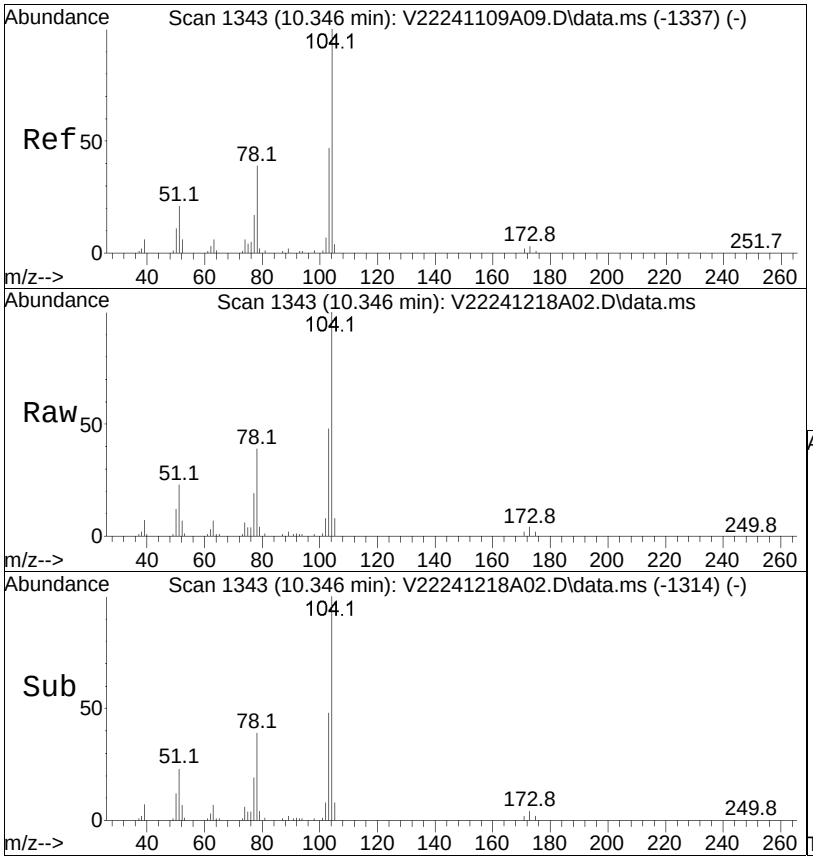


#81
o Xylene
Concen: 17.05 ug/L
RT: 10.276 min Scan# 1333
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion:106 Resp: 221445

Ion	Ratio	Lower	Upper
106	100		
91	205.0	164.0	246.0

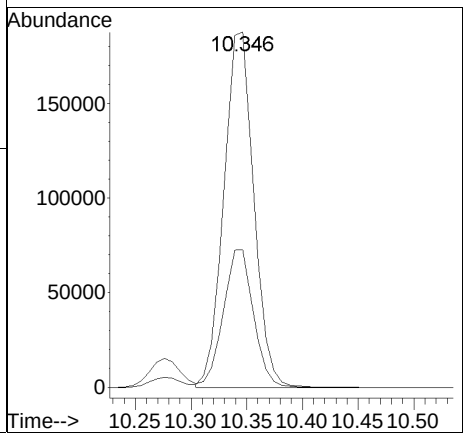


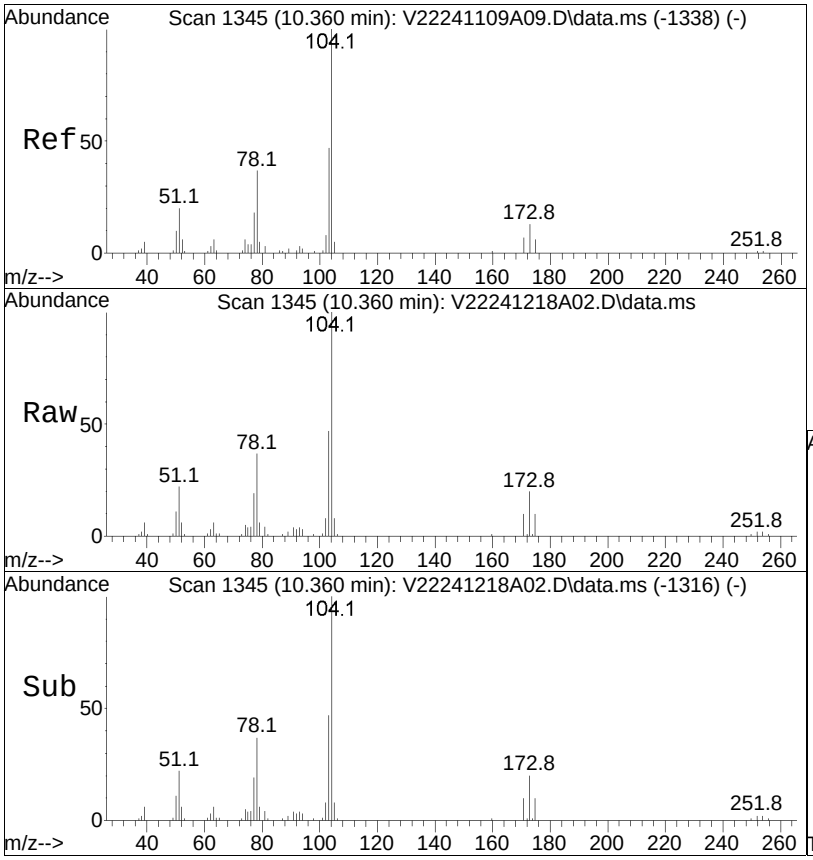


#82
Styrene
Concen: 16.82 ug/L
RT: 10.346 min Scan# 1343
Delta R.T. -0.000 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion:104 Resp: 351345

Ion	Ratio	Lower	Upper
104	100		
78	39.0	32.1	48.1

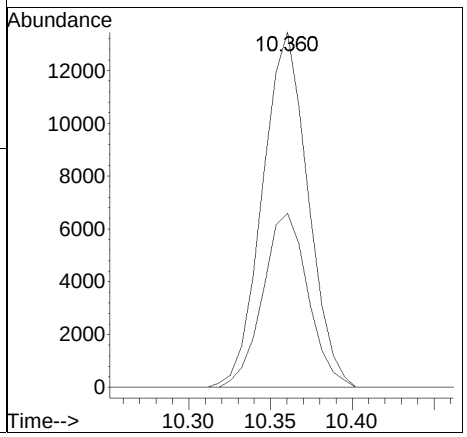


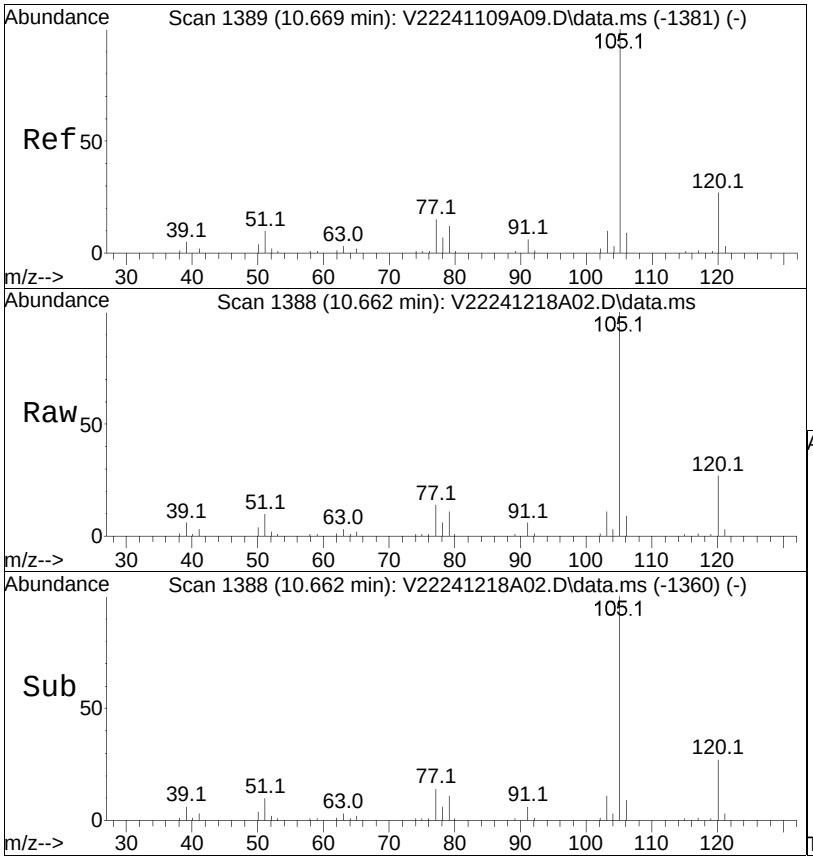


#84
Bromoform
Concen: 7.73 ug/L
RT: 10.360 min Scan# 1345
Delta R.T. 0.000 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion:173 Resp: 26080

Ion	Ratio	Lower	Upper
173	100		
175	48.8	29.3	69.3

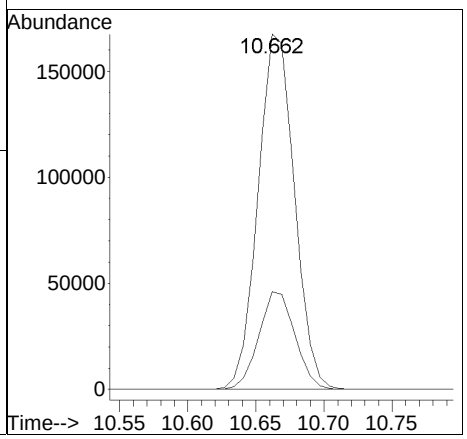


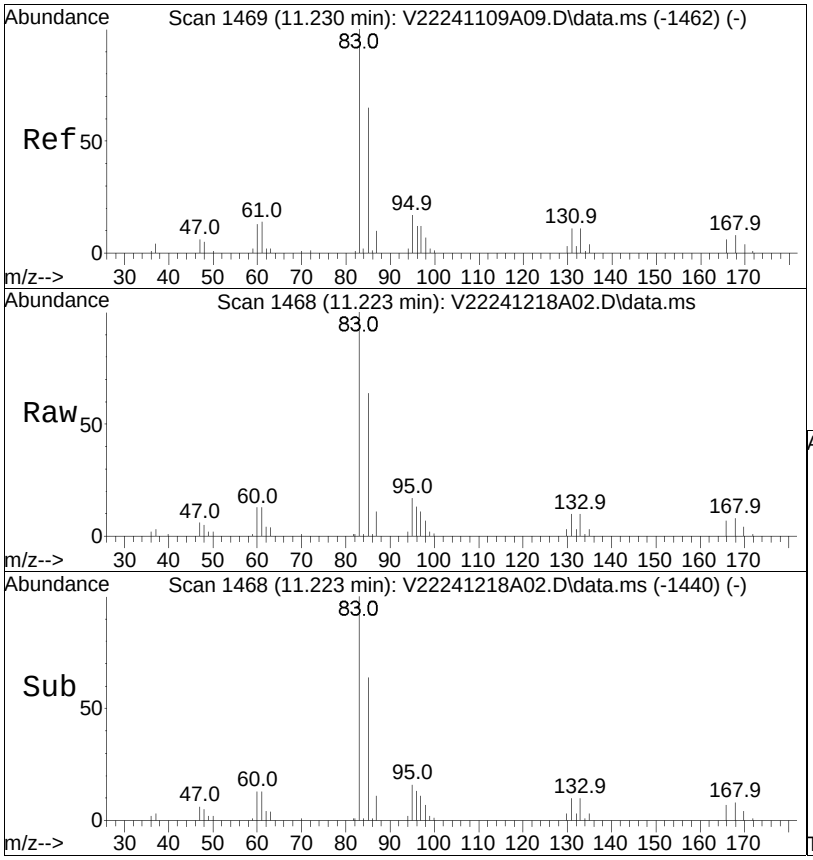


#86
Isopropylbenzene
Concen: 9.69 ug/L
RT: 10.662 min Scan# 1388
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion:105 Resp: 311371

Ion	Ratio	Lower	Upper
105	100		
120	27.3	7.7	47.7

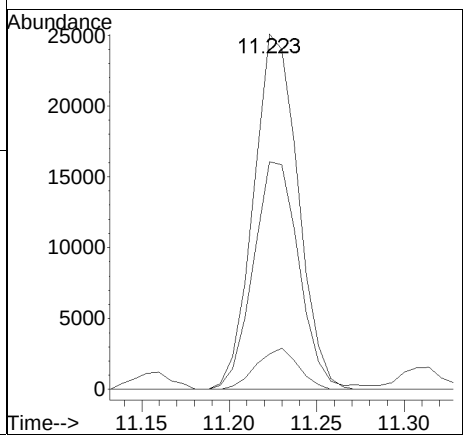


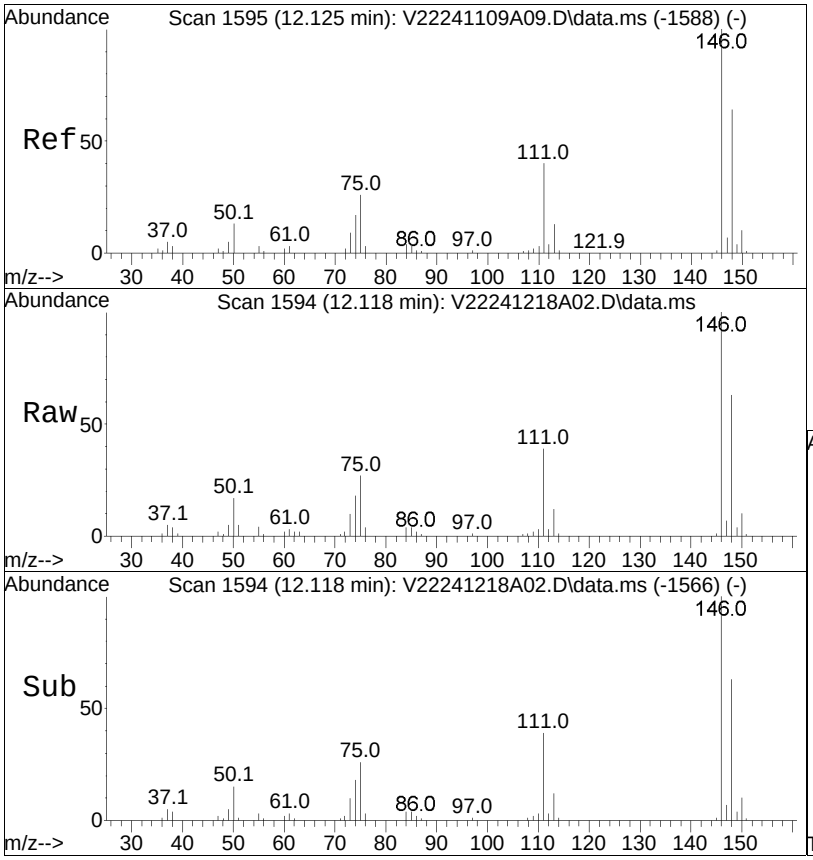


#91
1,1,2,2-Tetrachloroethane
Concen: 8.86 ug/L
RT: 11.223 min Scan# 1468
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion: 83 Resp: 44309

Ion	Ratio	Lower	Upper
83	100		
131	11.0	0.0	30.8
85	66.1	45.4	85.4

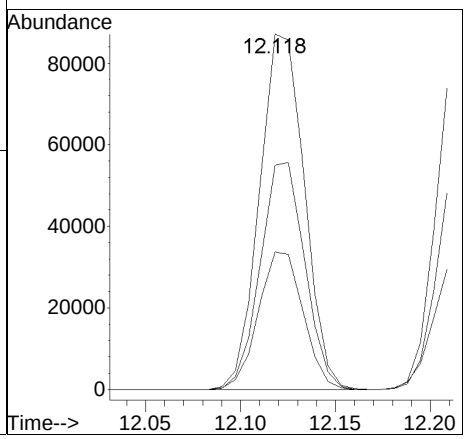


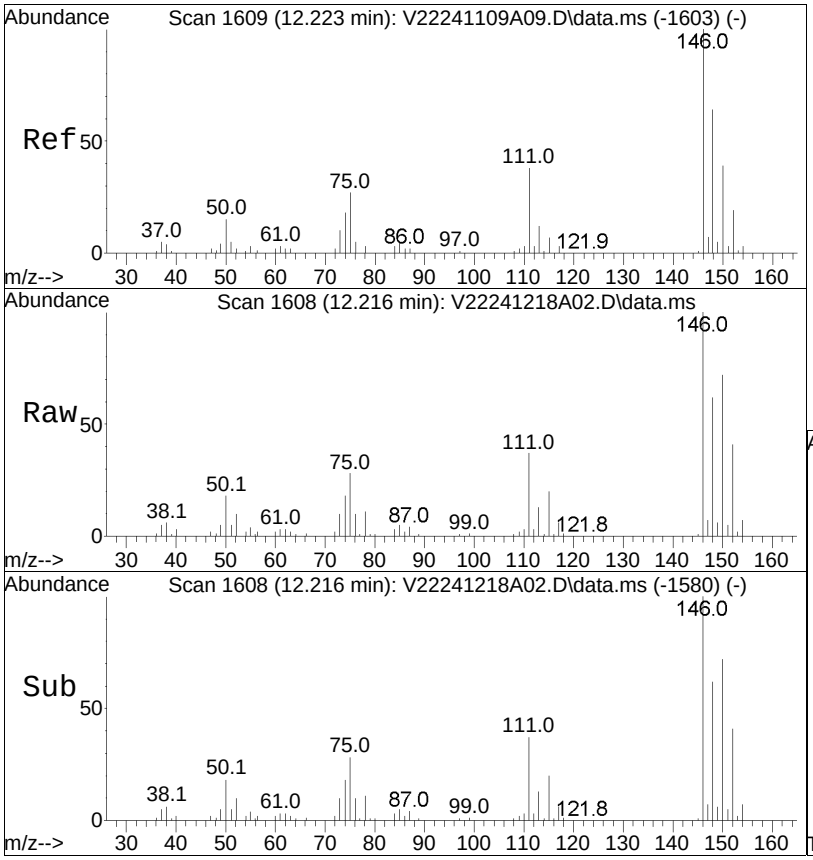


#104
1,3-Dichlorobenzene
Concen: 9.36 ug/L
RT: 12.118 min Scan# 1594
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion:146 Resp: 143235

Ion	Ratio	Lower	Upper
146	100		
111	38.6	24.0	49.8
148	63.4	41.8	86.8

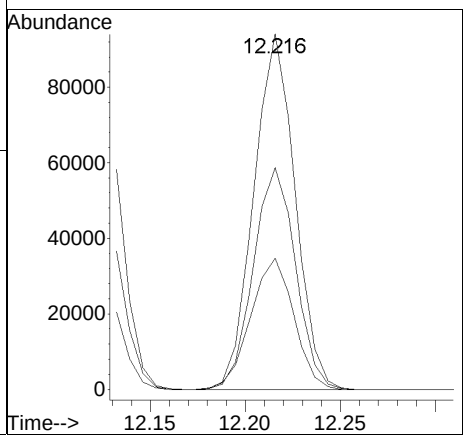


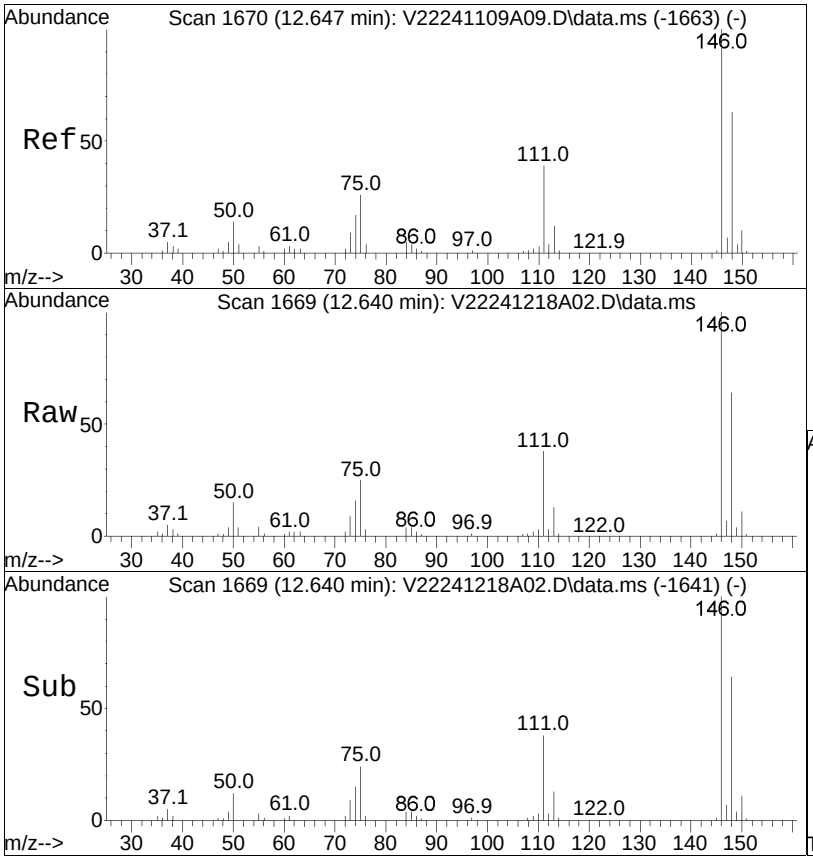


#105
1,4-Dichlorobenzene
Concen: 9.30 ug/L
RT: 12.216 min Scan# 1608
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion:146 Resp: 142140

Ion	Ratio	Lower	Upper
146	100		
111	38.6	28.9	43.3
148	63.7	51.4	77.2

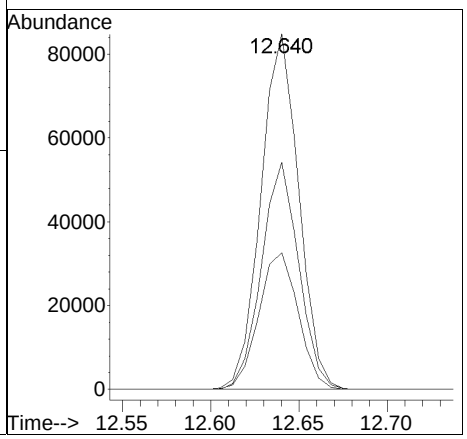


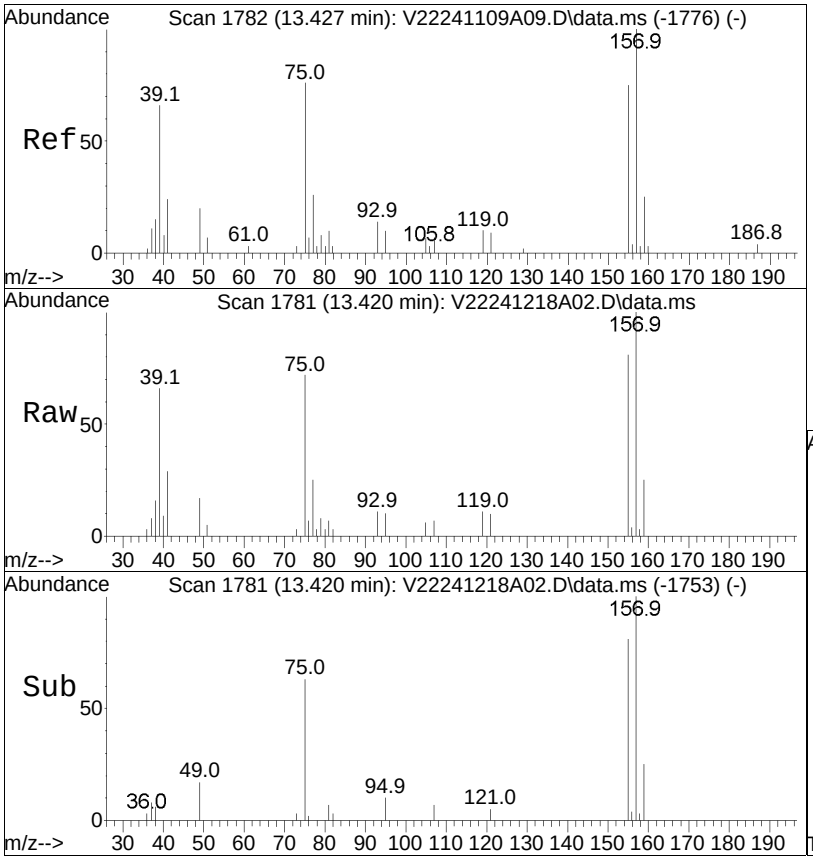


#108
1,2-Dichlorobenzene
Concen: 9.29 ug/L
RT: 12.640 min Scan# 1669
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion:146 Resp: 126748

Ion	Ratio	Lower	Upper
146	100		
111	40.2	24.8	51.6
148	62.9	42.2	87.6

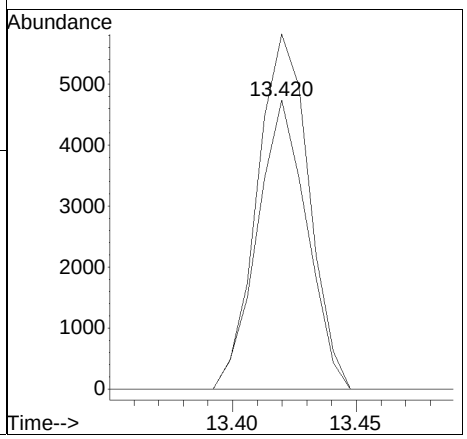


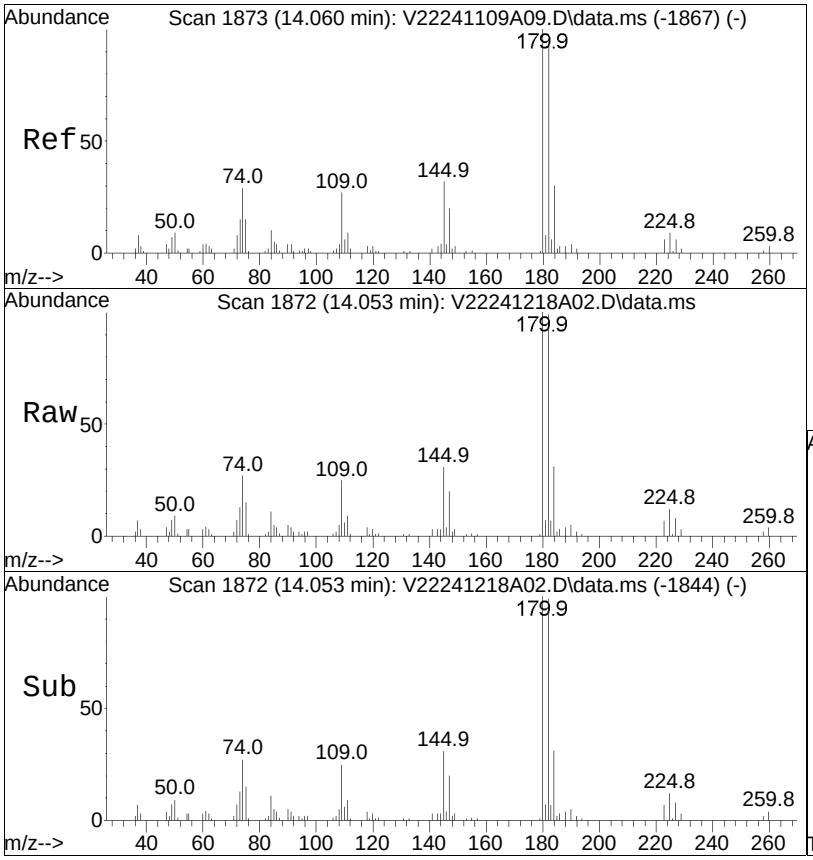


#110
1,2-Dibromo-3-chloropropane
Concen: 8.53 ug/L
RT: 13.420 min Scan# 1781
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion:155 Resp: 6649

Ion	Ratio	Lower	Upper
155	100		
157	127.6	102.3	153.5

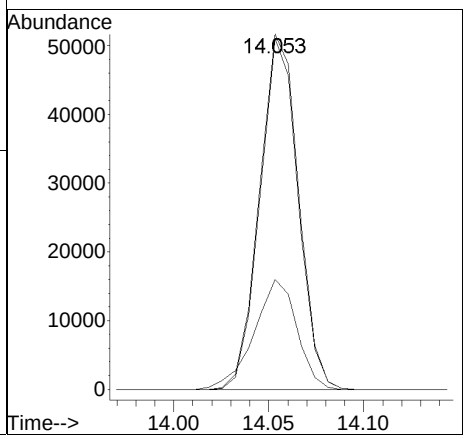


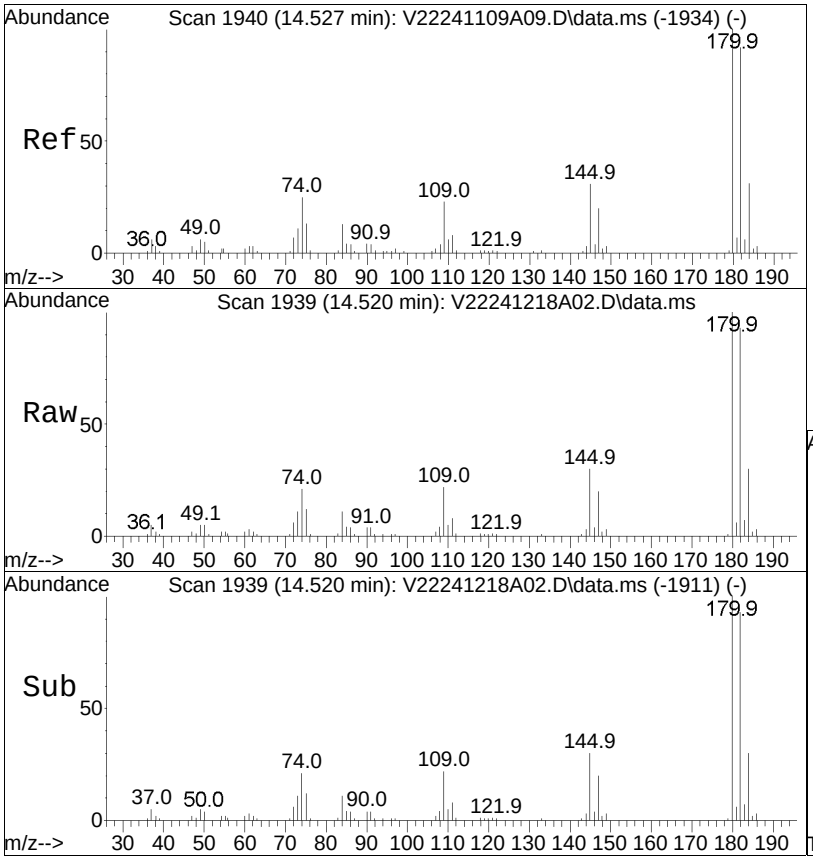


#113
1,2,4-Trichlorobenzene
Concen: 9.25 ug/L
RT: 14.053 min Scan# 1872
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion:180 Resp: 73732

Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.6	114.8
145	34.0	25.5	38.3

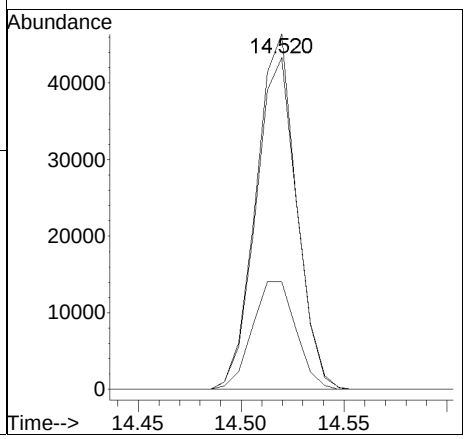




#115
1,2,3-Trichlorobenzene
Concen: 9.38 ug/L
RT: 14.520 min Scan# 1939
Delta R.T. -0.007 min
Lab File: V22241218A02.D
Acq: 18 Dec 2024 07:54 am

Tgt Ion:180 Resp: 63474

Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.0	114.0
145	32.8	23.8	35.8



Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A03.D
Acq On : 18 Dec 2024 08:18 am
Operator : VOA122:PID
Sample : WG2010821-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2010821,ICAL21691 (Sig #1); WG,ICAL21691 (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 18 13:34:58 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A02.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.944	96	490889	10.000	ug/L	0.00
Standard Area 1 = 488520			Recovery = 100.48%			
62) Chlorobenzene-d5	9.484	117	394305	10.000	ug/L	0.00
Standard Area 1 = 400401			Recovery = 98.48%			
83) 1,4-Dichlorobenzene-d4	12.202	152	206729	10.000	ug/L	0.00
Standard Area 1 = 207680			Recovery = 99.54%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.138	113	168018	10.028	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.28%			
46) 1,2-Dichloroethane-d4	5.649	65	101546	9.808	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.08%			
63) Toluene-d8	7.640	98	500759	10.073	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.73%			
87) 4-Bromofluorobenzene	10.984	95	175555	10.402	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.02%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.612	85	62410	6.157	ug/L	98
3) Chloromethane	1.795	50	73167	8.433	ug/L	99
4) Vinyl chloride	1.867	62	79745	6.892	ug/L	100
5) Bromomethane	2.175	94	24424	2.922	ug/L	98
6) Chloroethane	2.287	64	51440	6.487	ug/L	98
7) Trichlorofluoromethane	2.431	101	116653	8.810	ug/L	99
10) 1,1-Dichloroethene	2.909	96	65605	9.391	ug/L	93
11) Carbon disulfide	2.942	76	200384	9.436	ug/L	100
12) Freon-113	2.949	101	69325	9.437	ug/L	97
15) Methylene chloride	3.453	84	77641	9.458	ug/L	82
17) Acetone	3.493	43	10667	9.024	ug/L	93
18) trans-1,2-Dichloroethene	3.604	96	73560	9.593	ug/L	96
19) Methyl acetate	3.611	43	24852	8.652	ug/L #	90
21) Methyl tert-butyl ether	3.702	73	112077	8.332	ug/L #	87
25) 1,1-Dichloroethane	4.181	63	130196	9.377	ug/L	98
30) cis-1,2-Dichloroethene	4.692	96	80968	9.540	ug/L	95
32) Bromochloromethane	4.889	128	39861	9.344	ug/L	91
33) Cyclohexane	4.895	56	120470	9.112	ug/L	85
34) Chloroform	4.954	83	125248	9.022	ug/L	94
36) Carbon tetrachloride	5.098	117	102094	9.092	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A03.D
Acq On : 18 Dec 2024 08:18 am
Operator : VOA122:PID
Sample : WG2010821-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2010821,ICAL21691 (Sig #1); WG,ICAL21691 (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 18 13:34:58 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A02.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) 1,1,1-Trichloroethane	5.164	97	114451	9.043	ug/L		98
41) 2-Butanone	5.243	43	17614	10.489	ug/L	#	50
44) Benzene	5.525	78	264468	8.756	ug/L		96
47) 1,2-Dichloroethane	5.728	62	64629	8.809	ug/L		94
50) Methyl cyclohexane	6.121	83	92203	8.330	ug/L		86
51) Trichloroethene	6.121	95	63393	9.019	ug/L		96
54) 1,2-Dichloropropane	6.660	63	54001	8.895	ug/L		98
57) Bromodichloromethane	6.737	83	71566	8.488	ug/L		98
61) cis-1,3-Dichloropropene	7.425	75	74467	8.483	ug/L		92
64) Toluene	7.696	92	151189	9.244	ug/L		100
65) 4-Methyl-2-pentanone	8.127	58	7834	6.962	ug/L	#	67
66) Tetrachloroethene	8.140	166	68168	9.094	ug/L		95
68) trans-1,3-Dichloropropene	8.175	75	59837	8.013	ug/L		92
71) 1,1,2-Trichloroethane	8.363	83	31642	8.291	ug/L		99
72) Chlorodibromomethane	8.572	129	49420	7.865	ug/L		99
74) 1,2-Dibromoethane	8.845	107	38941	8.295	ug/L		99
76) 2-Hexanone	9.140	43	13892	7.591	ug/L	#	87
77) Chlorobenzene	9.505	112	176084	9.322	ug/L	#	88
78) Ethylbenzene	9.547	91	296375	9.112	ug/L		100
80) p/m Xylene	9.736	106	234321	17.464	ug/L		100
81) o Xylene	10.276	106	219534	17.164	ug/L		100
82) Styrene	10.339	104	348129	16.929	ug/L		98
84) Bromoform	10.360	173	25625	7.635	ug/L		99
86) Isopropylbenzene	10.662	105	307667	9.620	ug/L		99
91) 1,1,2,2-Tetrachloroethane	11.230	83	42587	8.553	ug/L		100
104) 1,3-Dichlorobenzene	12.125	146	140885	9.253	ug/L		98
105) 1,4-Dichlorobenzene	12.216	146	139243	9.152	ug/L		98
108) 1,2-Dichlorobenzene	12.640	146	126968	9.346	ug/L		98
110) 1,2-Dibromo-3-chloropr...	13.420	155	6328	8.156	ug/L		96
113) 1,2,4-Trichlorobenzene	14.053	180	73225	9.225	ug/L		99
115) 1,2,3-Trichlorobenzene	14.520	180	62233	9.235	ug/L		98

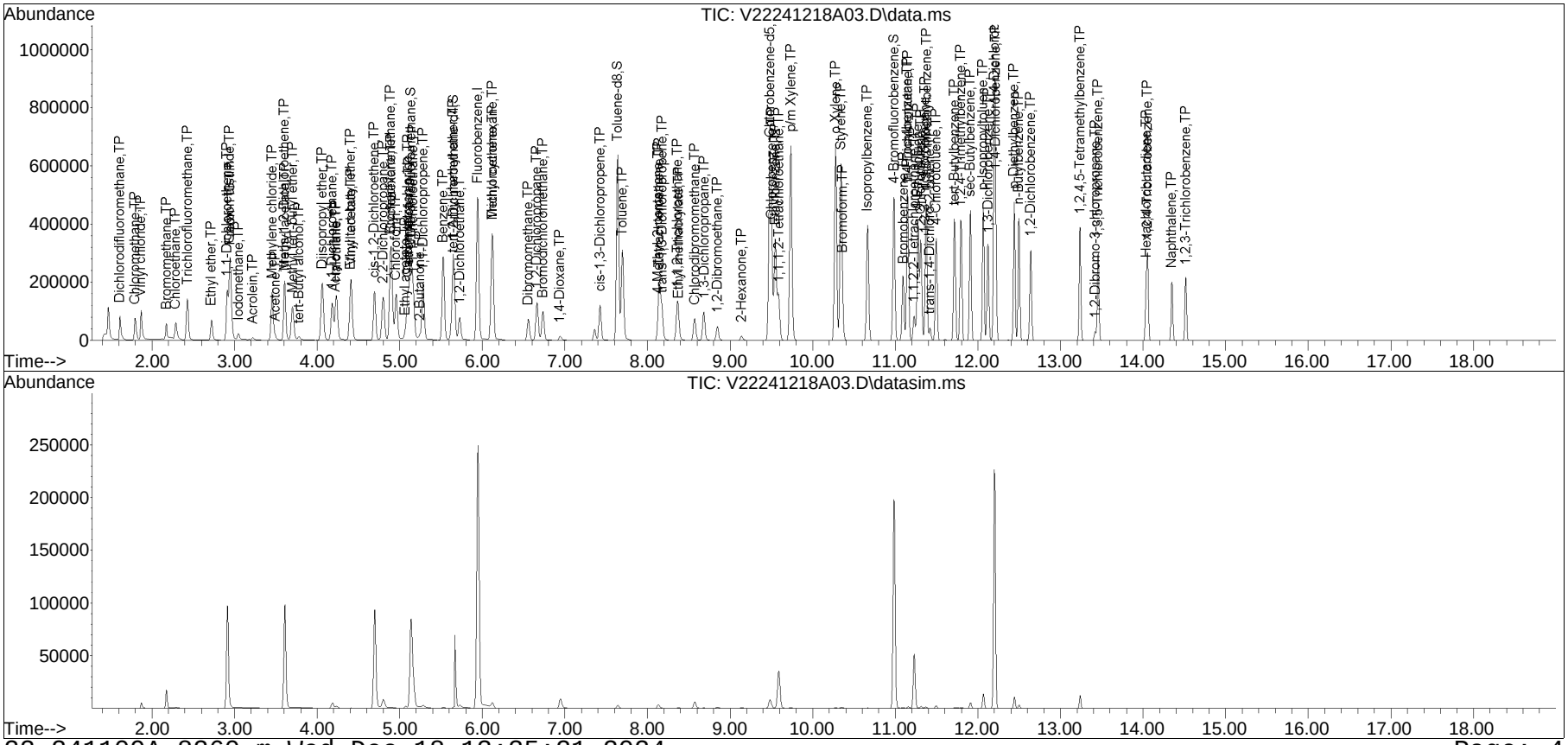
(#) = qualifier out of range (m) = manual integration (+) = signals summed

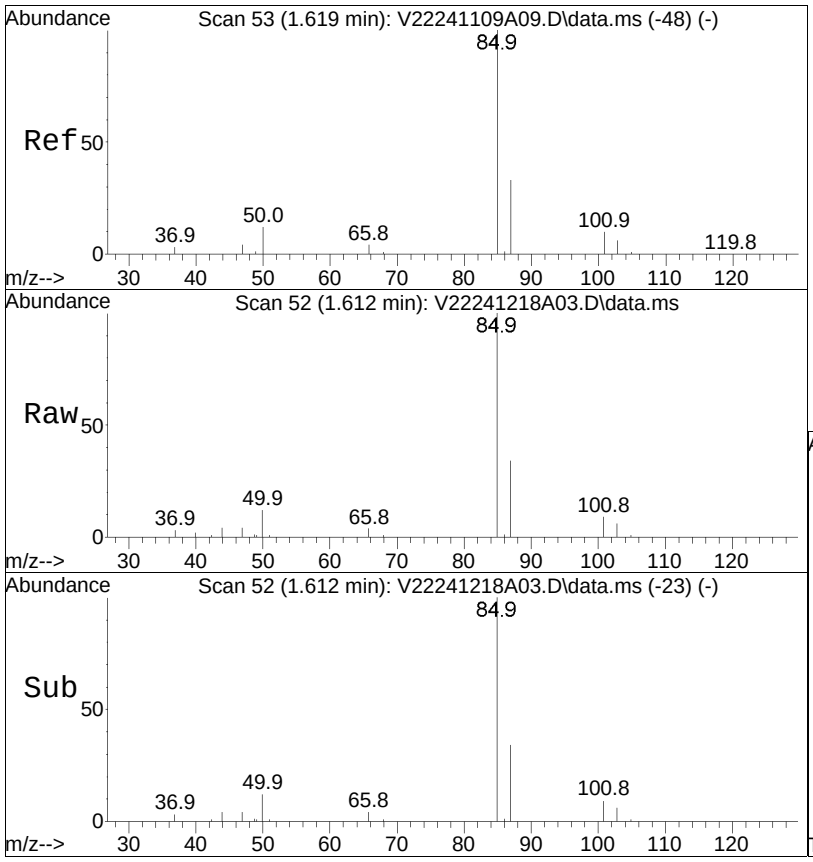
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A03.D
Acq On : 18 Dec 2024 08:18 am
Operator : VOA122:PID
Sample : WG2010821-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2010821,ICAL21691 (Sig #1); WG,ICAL21691 (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 18 13:34:58 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE02.D•

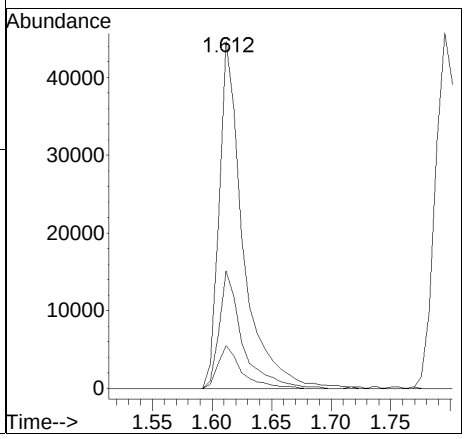


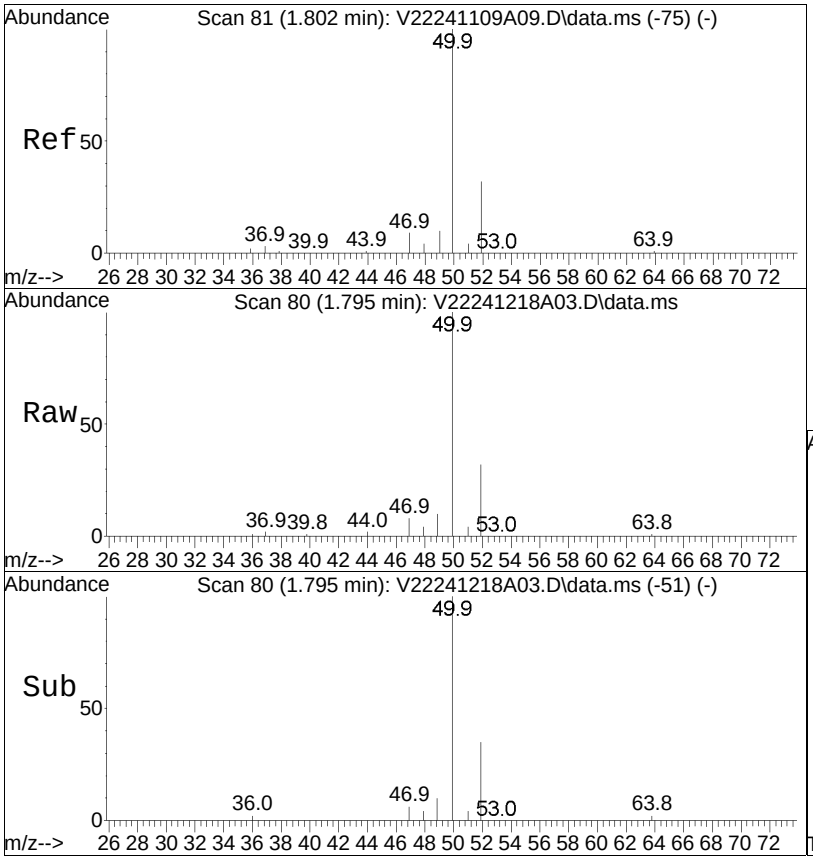


#2
Dichlorodifluoromethane
Concen: 6.16 ug/L
RT: 1.612 min Scan# 52
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion: 85 Resp: 62410

Ion	Ratio	Lower	Upper
85	100		
87	32.7	20.7	42.9
50	12.2	6.8	14.2

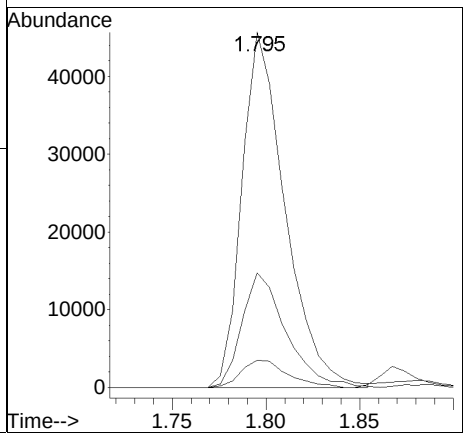


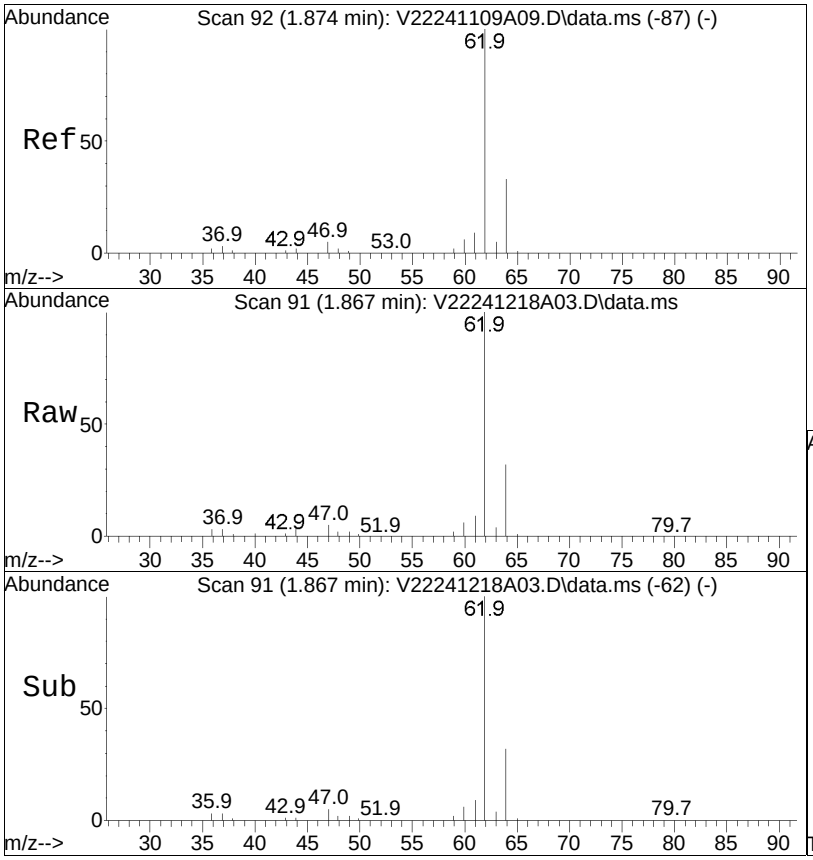


#3
Chloromethane
Concen: 8.43 ug/L
RT: 1.795 min Scan# 80
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion: 50 Resp: 73167

Ion	Ratio	Lower	Upper
50	100		
52	32.9	12.8	52.8
47	8.3	0.0	30.0

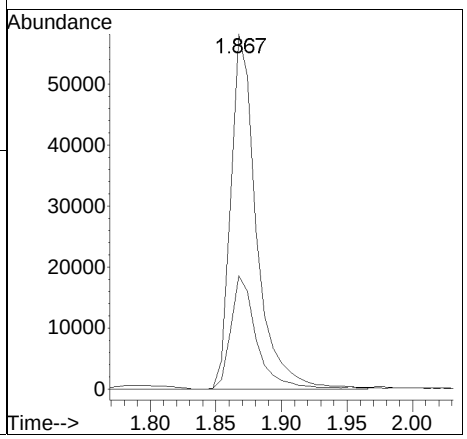


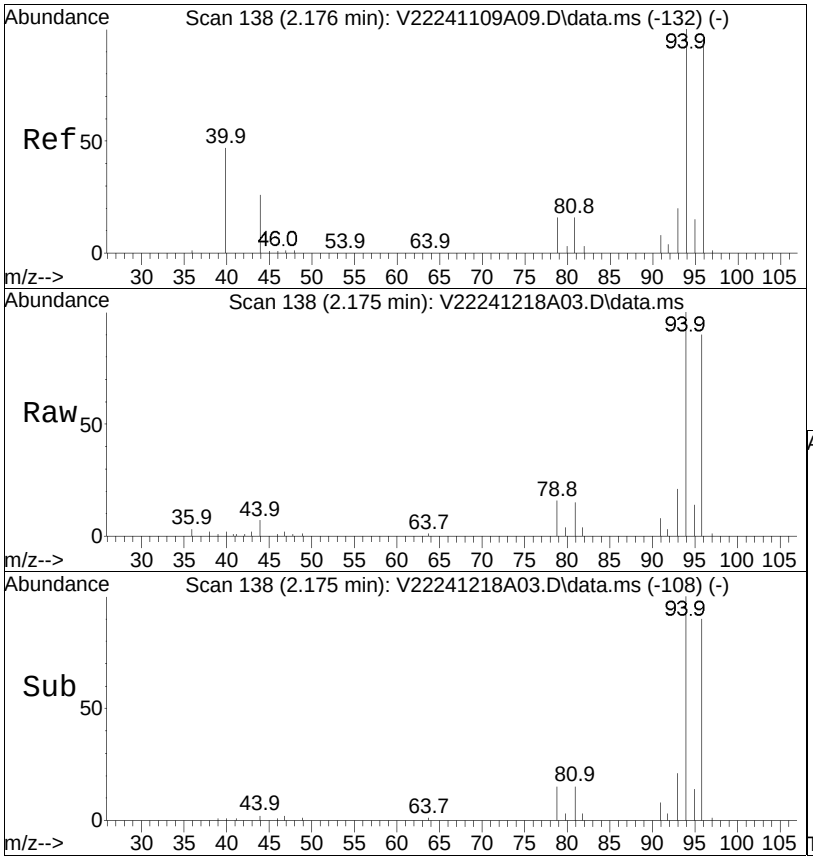


#4
Vinyl chloride
Concen: 6.89 ug/L
RT: 1.867 min Scan# 91
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion: 62 Resp: 79745

Ion	Ratio	Lower	Upper
62	100		
64	32.2	12.0	52.0

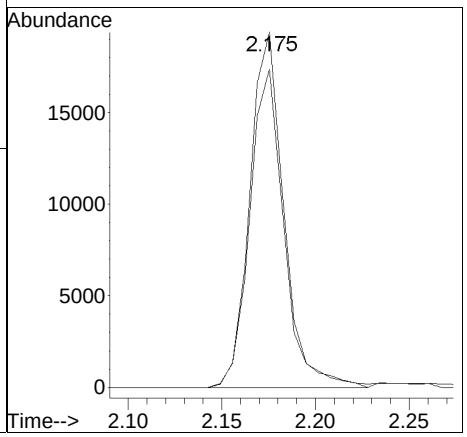


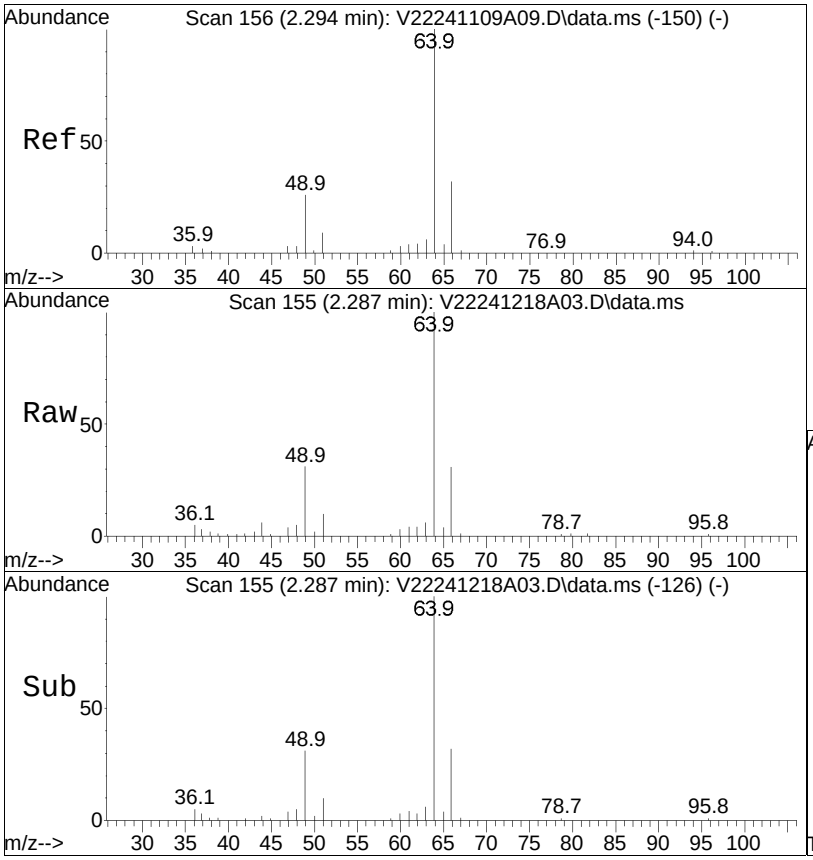


#5
Bromomethane
Concen: 2.92 ug/L
RT: 2.175 min Scan# 138
Delta R.T. -0.000 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion: 94 Resp: 24424

Ion	Ratio	Lower	Upper
94	100		
96	90.7	72.8	112.8

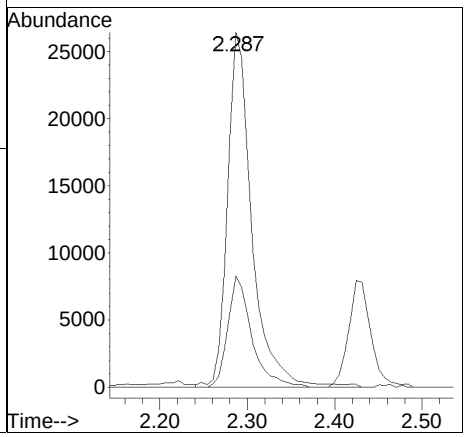


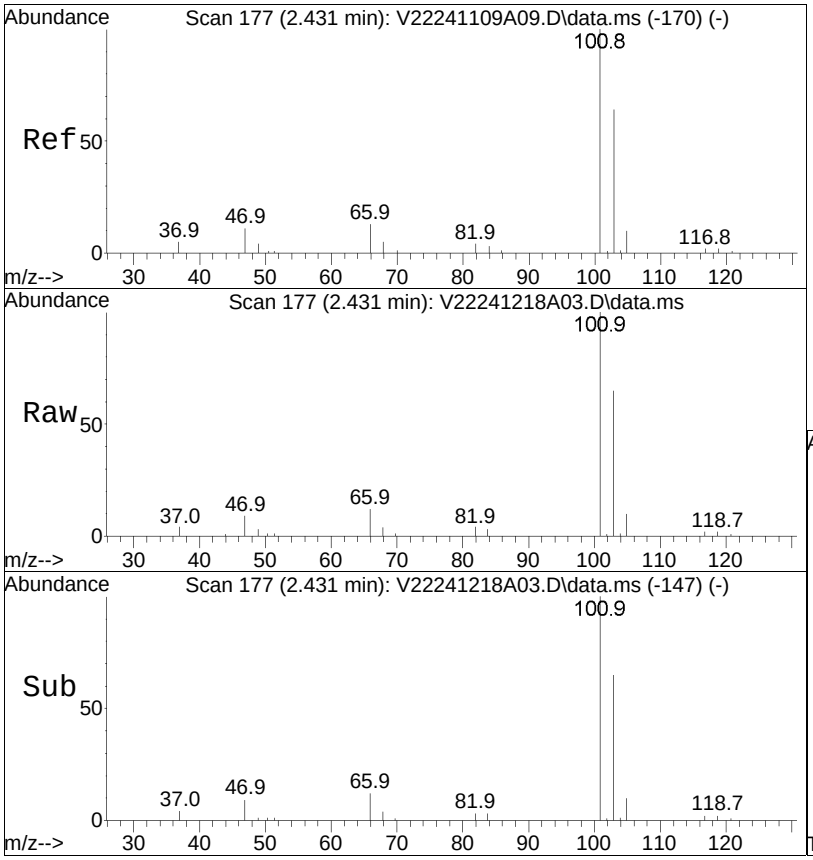


#6
Chloroethane
Concen: 6.49 ug/L
RT: 2.287 min Scan# 155
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion: 64 Resp: 51440

Ion	Ratio	Lower	Upper
64	100		
66	30.9	12.2	52.2

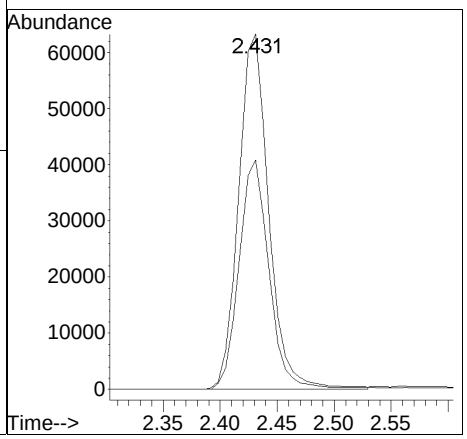


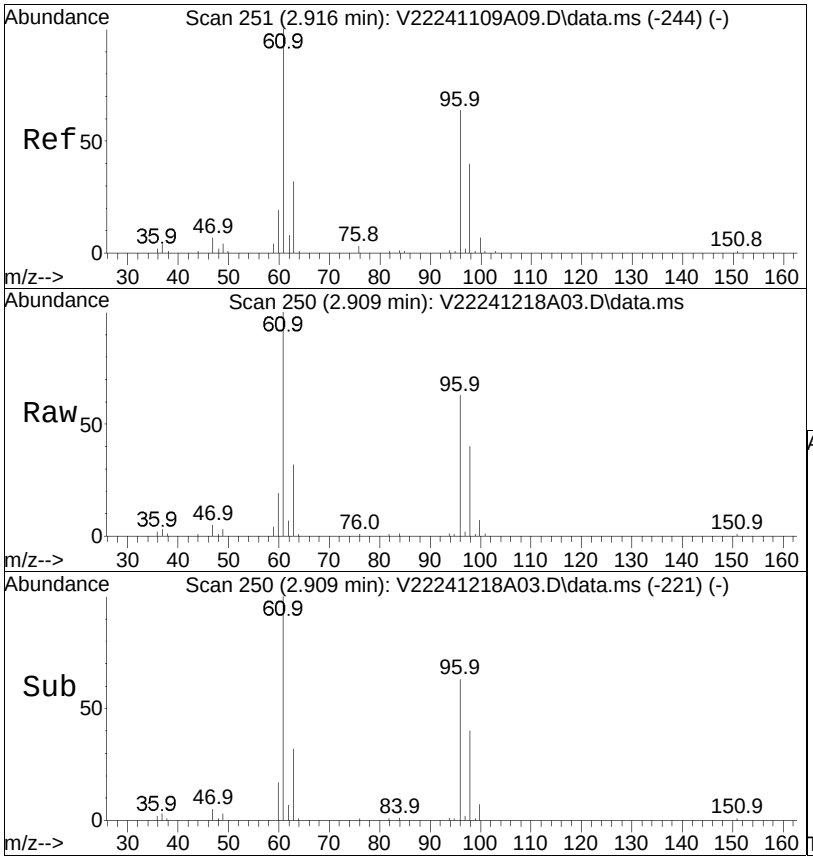


#7
Trichlorofluoromethane
Concen: 8.81 ug/L
RT: 2.431 min Scan# 177
Delta R.T. -0.000 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion:101 Resp: 116653

Ion	Ratio	Lower	Upper
101	100		
103	64.0	51.6	77.4

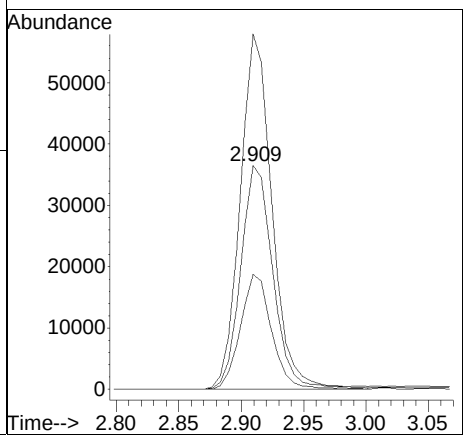


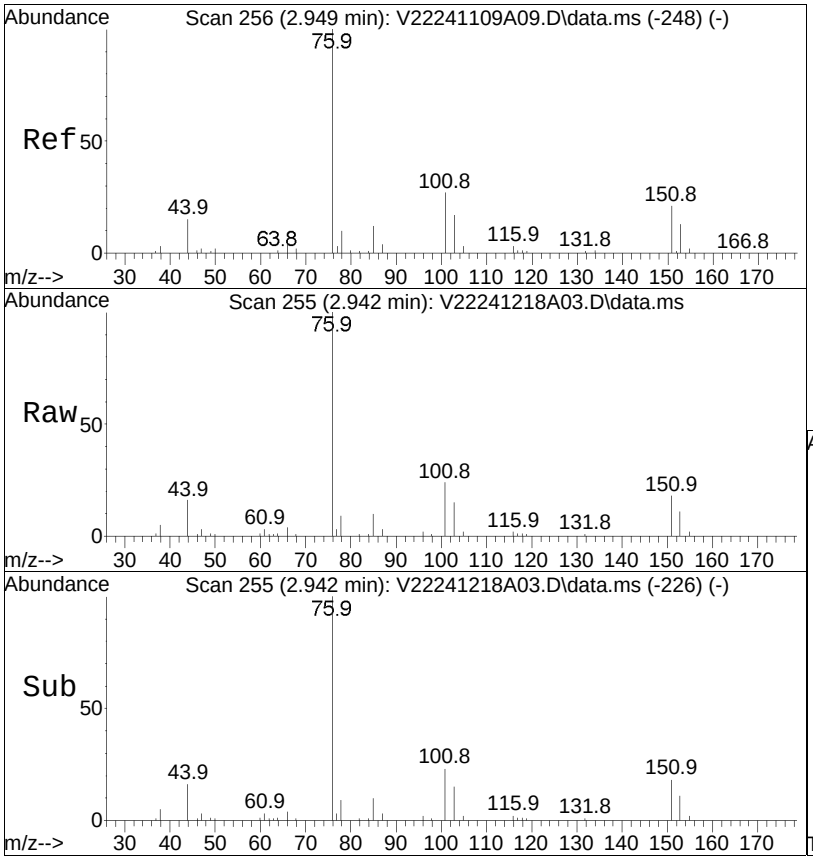


#10
1,1-Dichloroethene
Concen: 9.39 ug/L
RT: 2.909 min Scan# 250
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion: 96 Resp: 65605

Ion	Ratio	Lower	Upper
96	100		
61	156.2	117.0	175.4
63	50.0	37.8	56.6

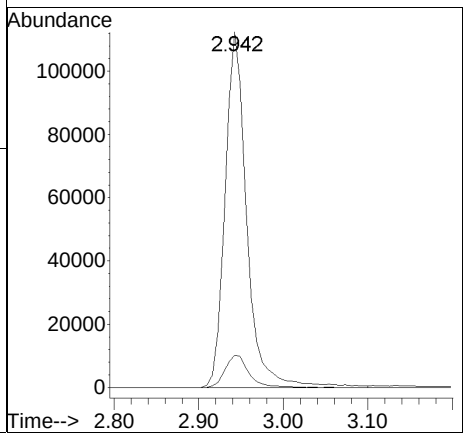


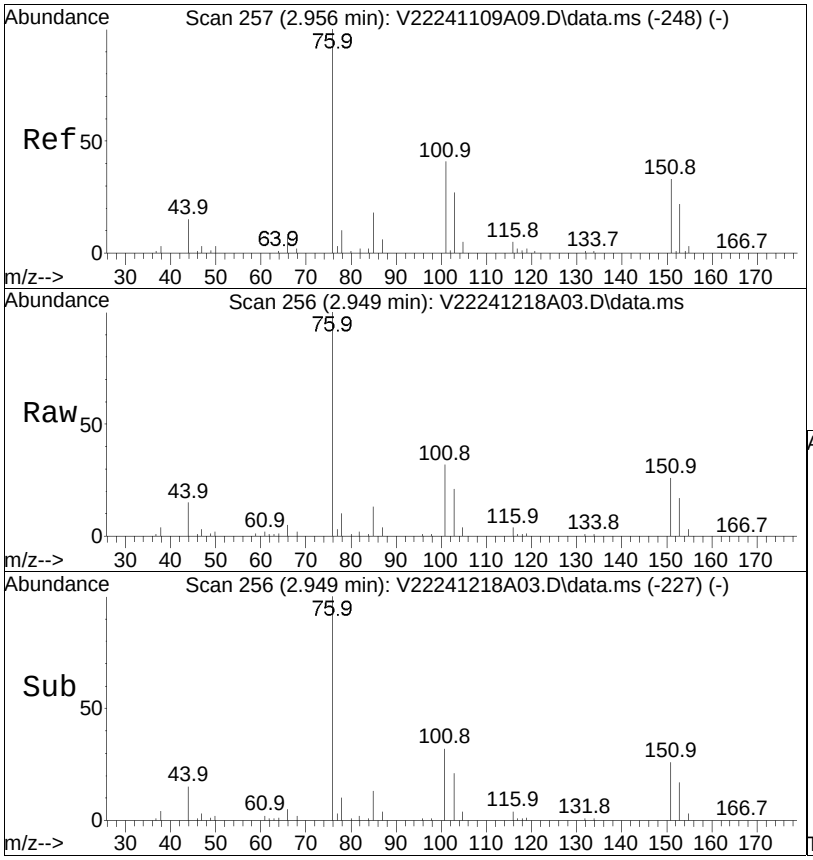


#11
Carbon disulfide
Concen: 9.44 ug/L
RT: 2.942 min Scan# 255
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion: 76 Resp: 200384

Ion	Ratio	Lower	Upper
76	100		
78	9.8	6.4	13.4

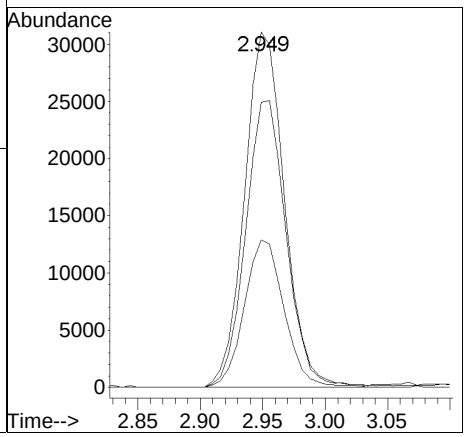


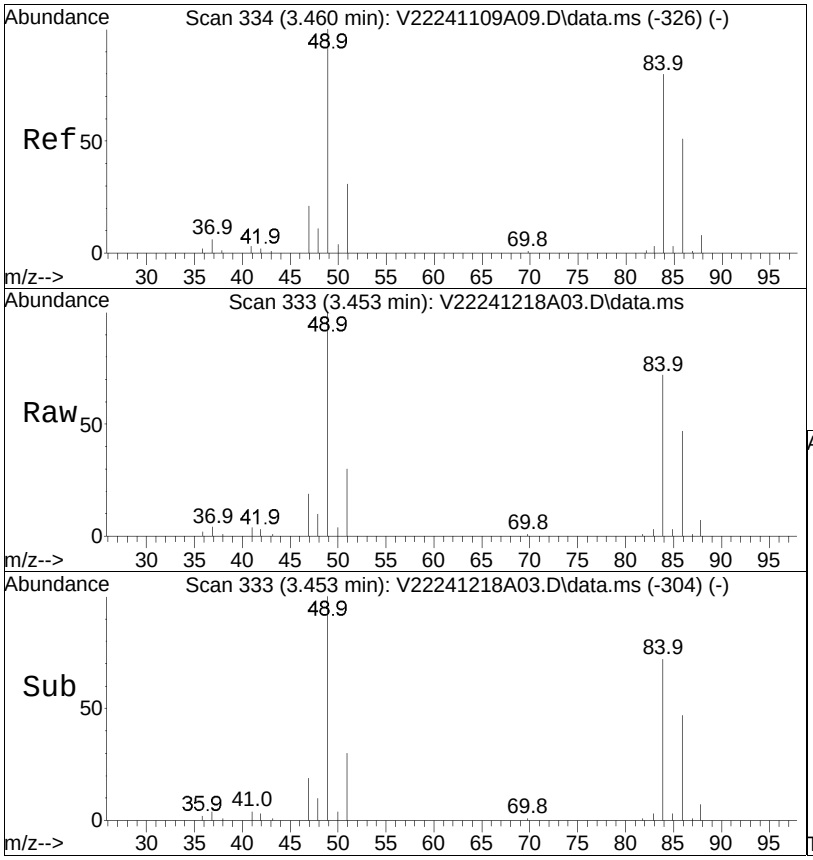


#12
Freon-113
Concen: 9.44 ug/L
RT: 2.949 min Scan# 256
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion:101 Resp: 69325

Ion	Ratio	Lower	Upper
101	100		
151	82.2	68.5	102.7
85	41.3	33.1	49.7

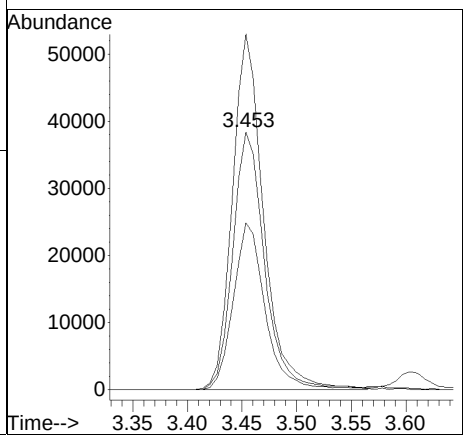


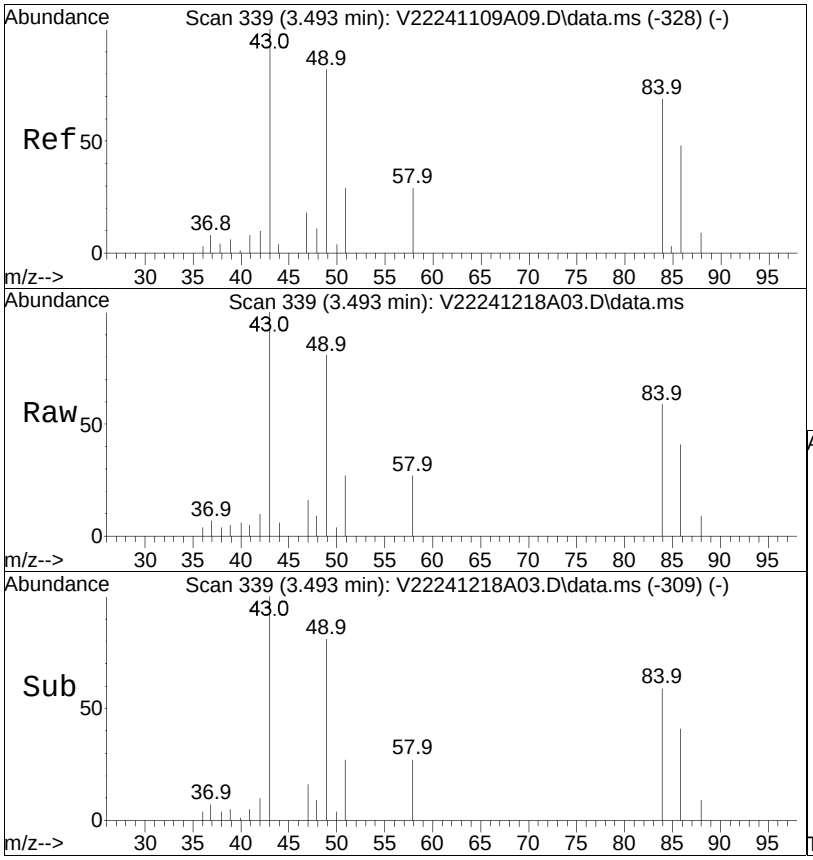


#15
Methylene chloride
Concen: 9.46 ug/L
RT: 3.453 min Scan# 333
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion: 84 Resp: 77641

Ion	Ratio	Lower	Upper
84	100		
86	64.6	41.5	86.3
49	135.2	68.8	143.0

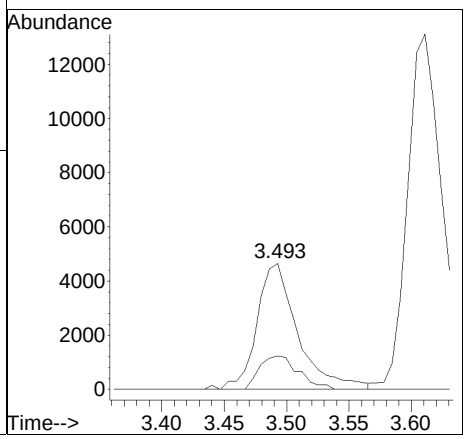


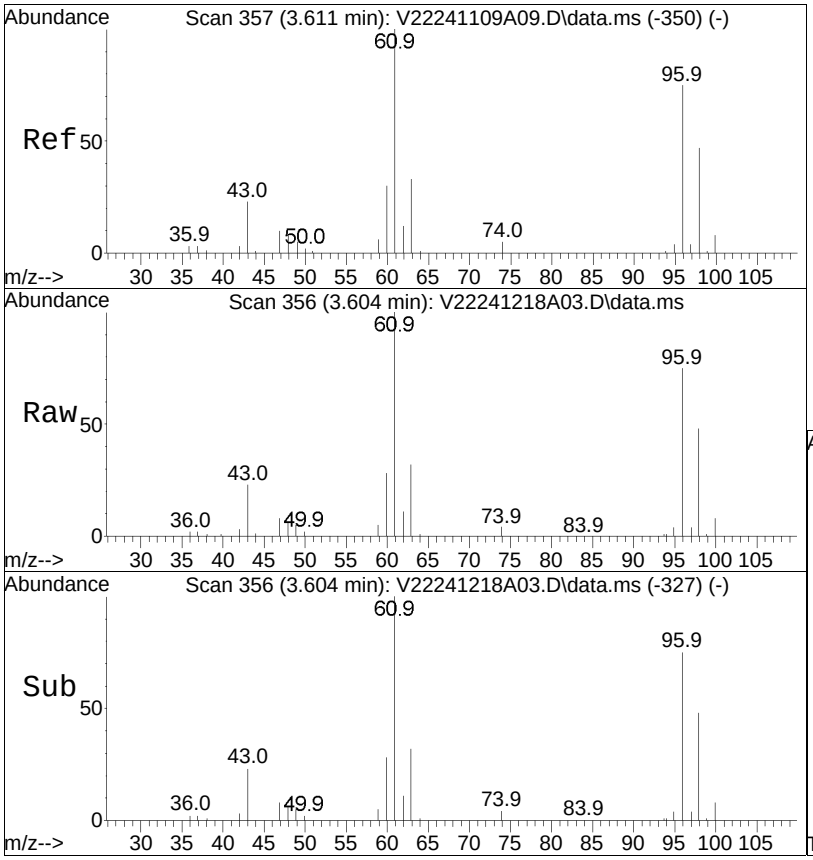


#17
Acetone
Concen: 9.02 ug/L
RT: 3.493 min Scan# 339
Delta R.T. -0.000 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion: 43 Resp: 10667

Ion	Ratio	Lower	Upper
43	100		
58	25.2	23.1	34.7

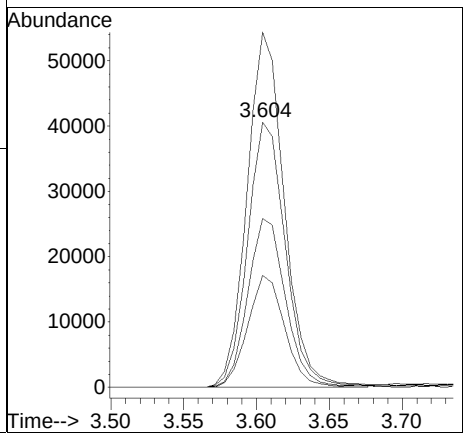


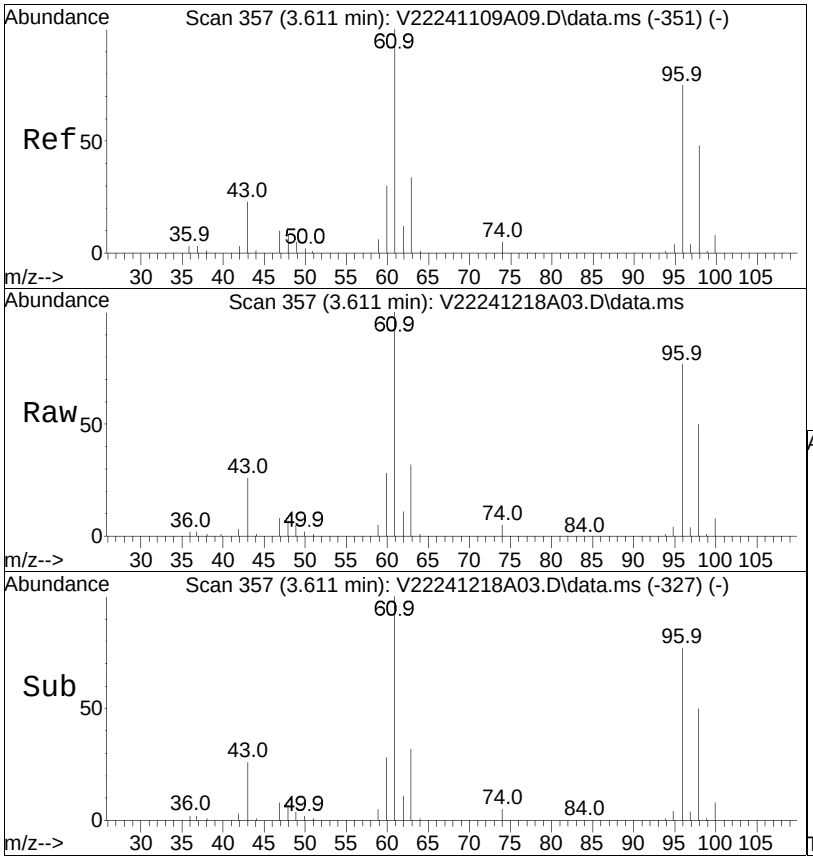


#18
trans-1,2-Dichloroethene
Concen: 9.59 ug/L
RT: 3.604 min Scan# 356
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion: 96 Resp: 73560

Ion	Ratio	Lower	Upper
96	100		
61	132.2	81.6	169.6
98	63.7	41.8	86.8
63	41.5	26.3	54.7

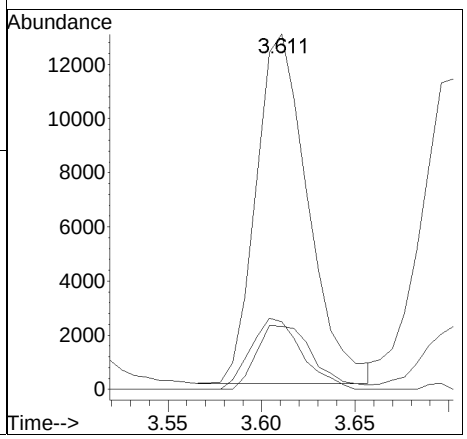


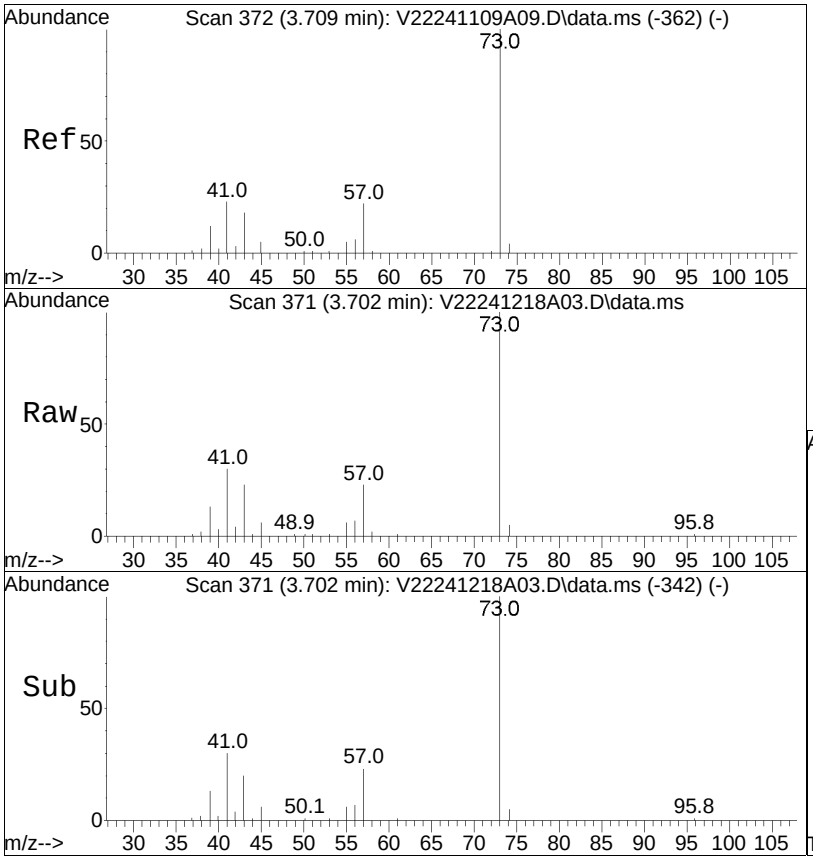


#19
Methyl acetate
Concen: 8.65 ug/L
RT: 3.611 min Scan# 357
Delta R.T. -0.000 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion: 43 Resp: 24852

Ion	Ratio	Lower	Upper
43	100		
74	20.1	21.8	32.6#
59	20.2	18.1	27.1

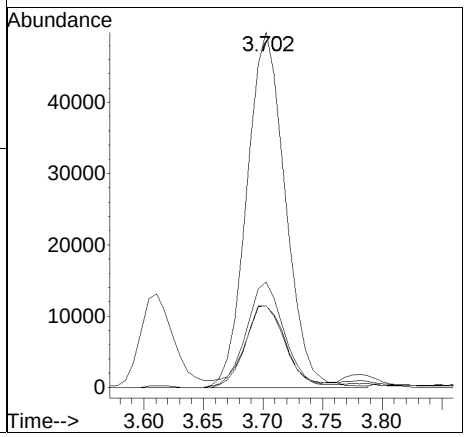


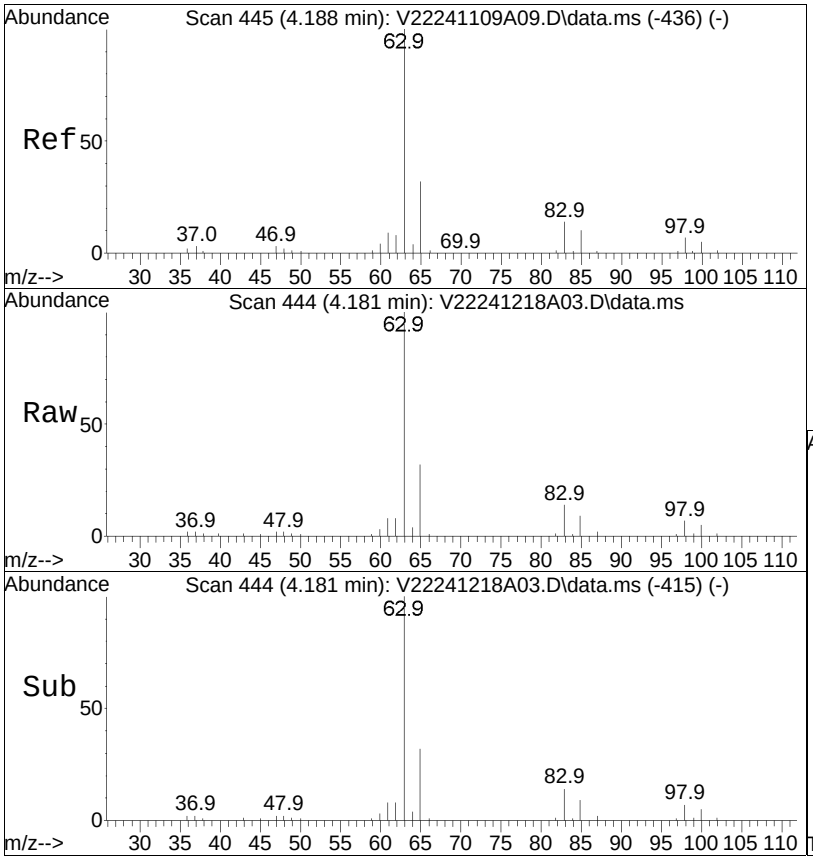


#21
Methyl tert-butyl ether
Concen: 8.33 ug/L
RT: 3.702 min Scan# 371
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion: 73 Resp: 112077

Ion	Ratio	Lower	Upper
73	100		
57	24.0	13.6	28.2
43	23.3	12.7	26.5
41	29.1	11.4	23.8#

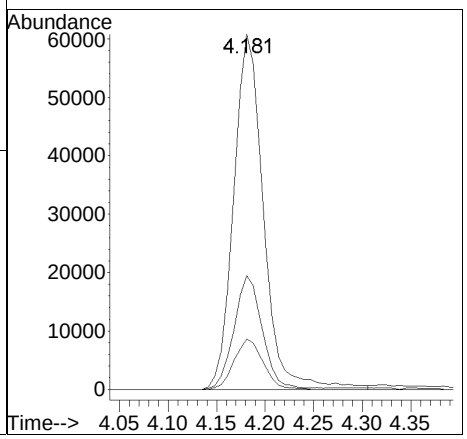


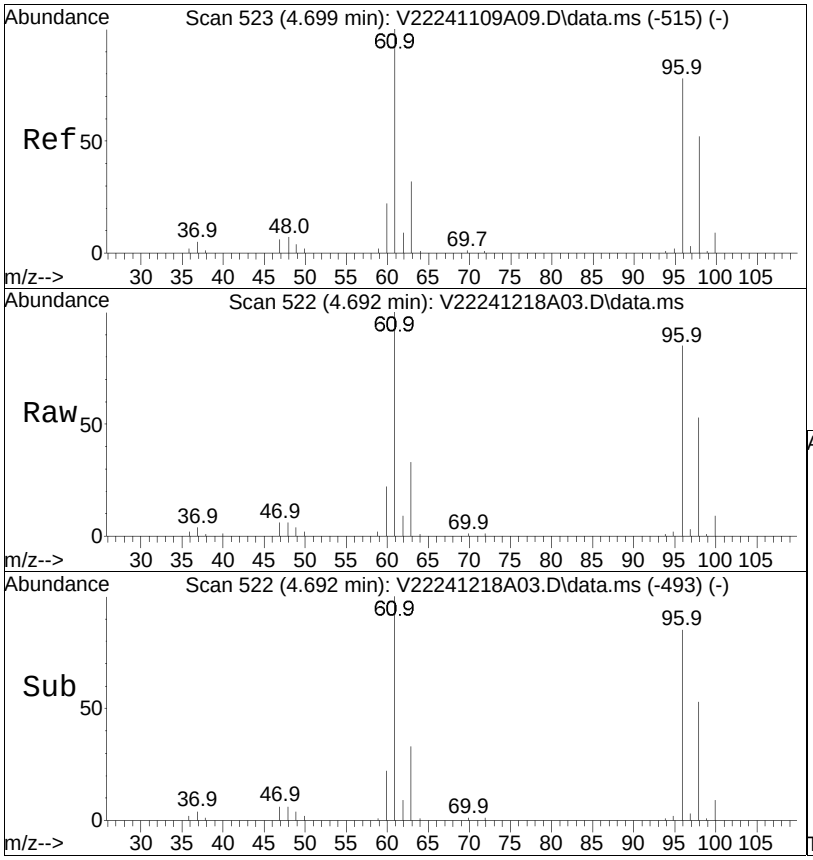


#25
1,1-Dichloroethane
Concen: 9.38 ug/L
RT: 4.181 min Scan# 444
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion: 63 Resp: 130196

Ion	Ratio	Lower	Upper
63	100		
65	30.5	11.9	51.9
83	13.7	0.0	34.2

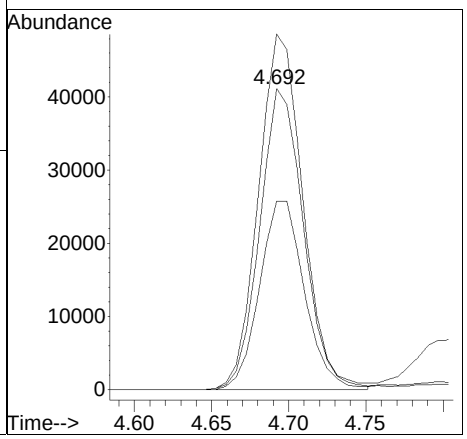


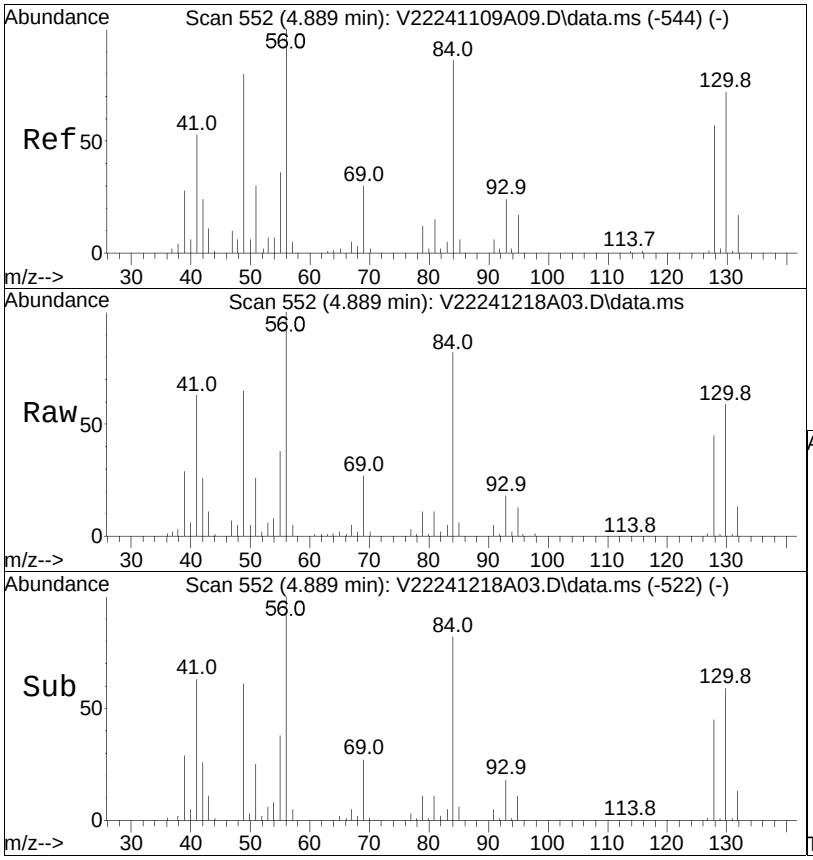


#30
cis-1,2-Dichloroethene
Concen: 9.54 ug/L
RT: 4.692 min Scan# 522
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion: 96 Resp: 80968

Ion	Ratio	Lower	Upper
96	100		
61	120.1	90.3	135.5
98	64.4	50.8	76.2

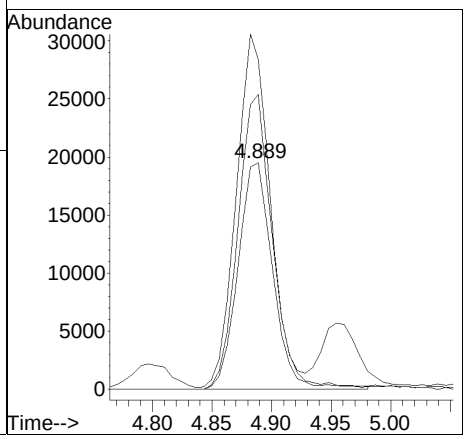


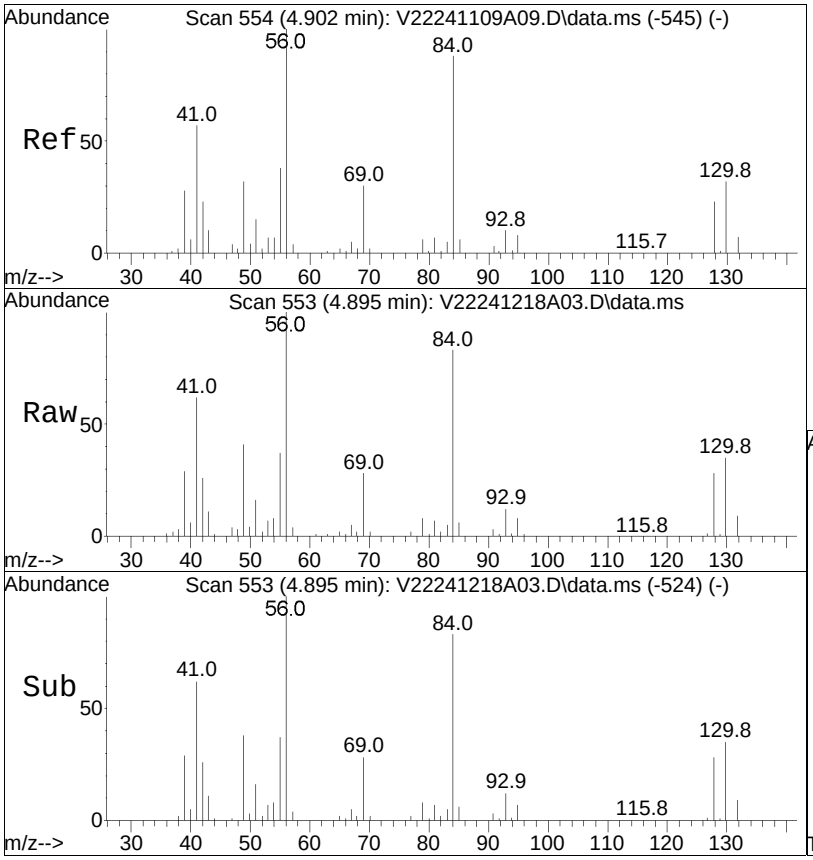


#32
Bromochloromethane
Concen: 9.34 ug/L
RT: 4.889 min Scan# 552
Delta R.T. -0.000 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion:128 Resp: 39861

Ion	Ratio	Lower	Upper
128	100		
49	151.2	104.4	156.6
130	129.1	103.9	155.9

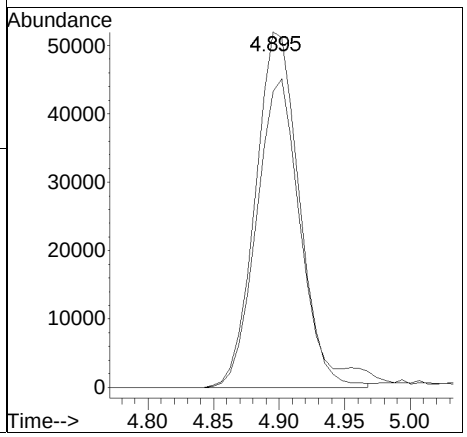


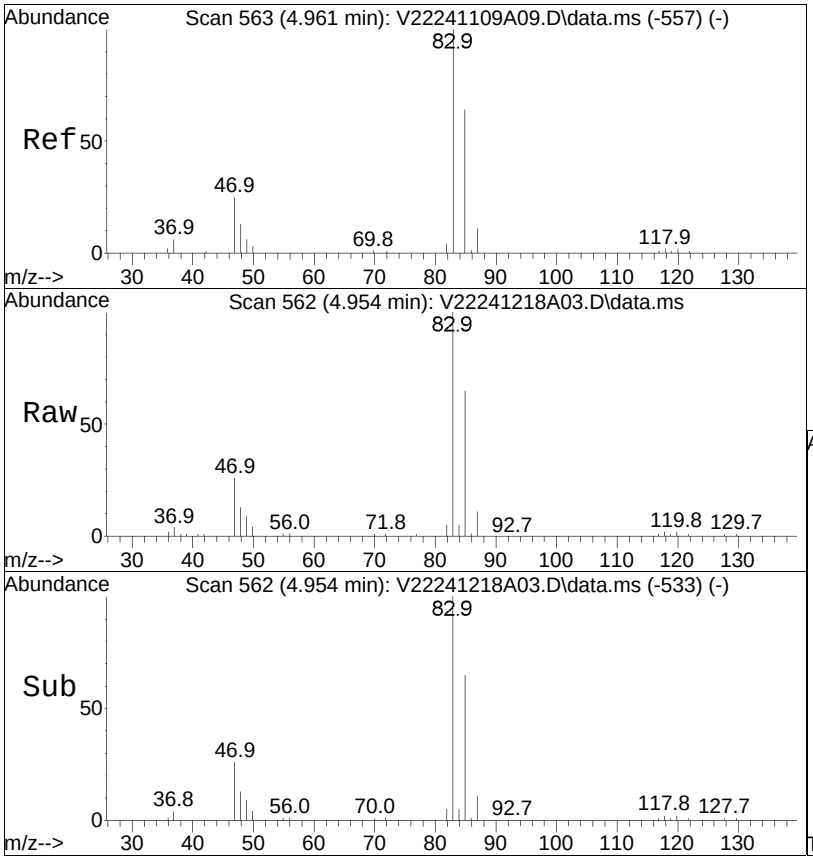


#33
Cyclohexane
Concen: 9.11 ug/L
RT: 4.895 min Scan# 553
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion: 56 Resp: 120470

Ion	Ratio	Lower	Upper
56	100		
84	86.4	66.0	137.2

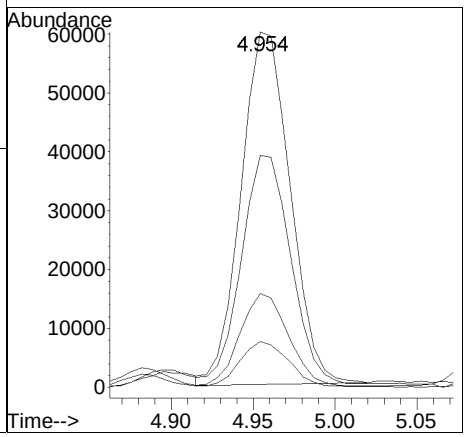


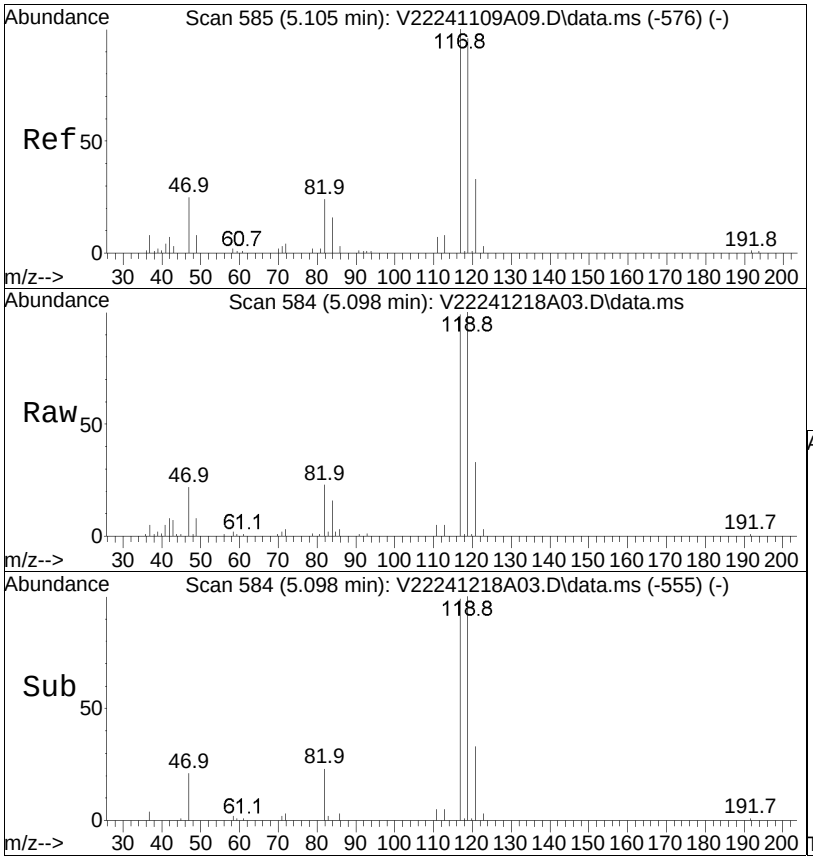


#34
Chloroform
Concen: 9.02 ug/L
RT: 4.954 min Scan# 562
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion: 83 Resp: 125248

Ion	Ratio	Lower	Upper
83	100		
85	68.9	42.4	88.2
47	25.5	14.0	29.0
48	13.3	6.9	14.3

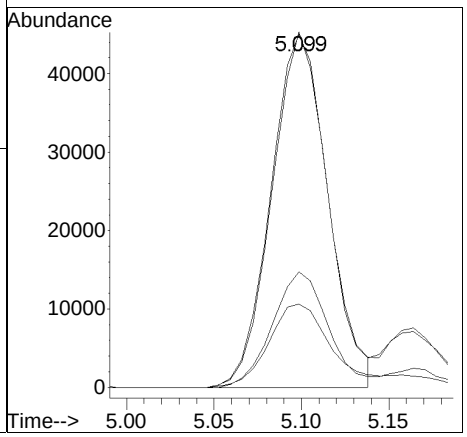


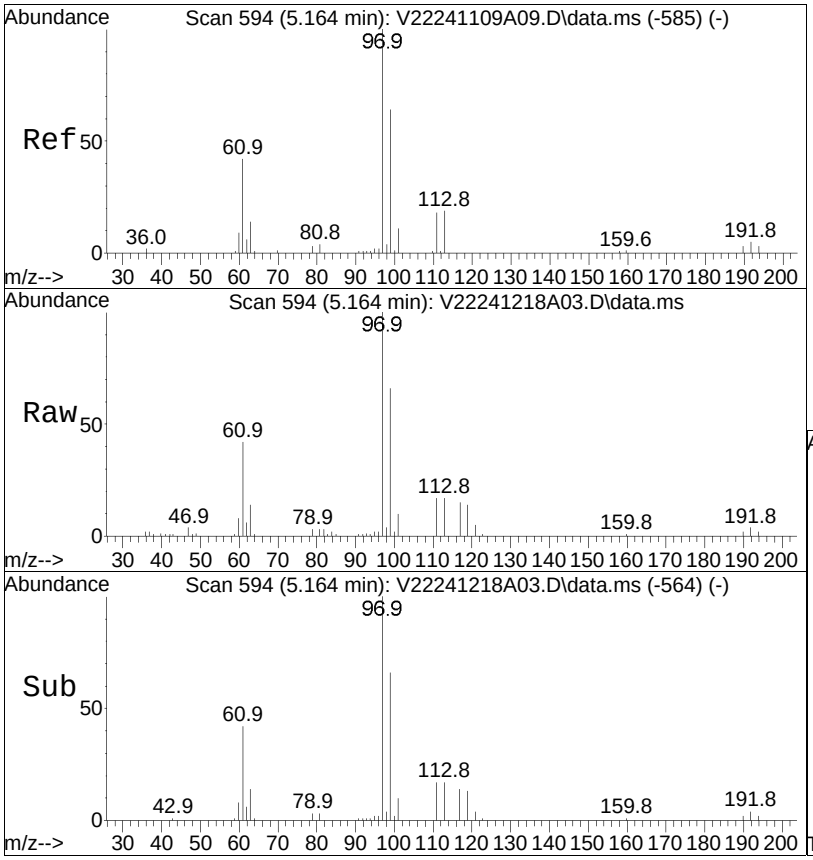


#36
Carbon tetrachloride
Concen: 9.09 ug/L
RT: 5.098 min Scan# 584
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion:117 Resp: 102094

Ion	Ratio	Lower	Upper
117	100		
119	99.7	62.1	129.1
121	31.8	20.3	42.3
82	29.4	15.4	32.0

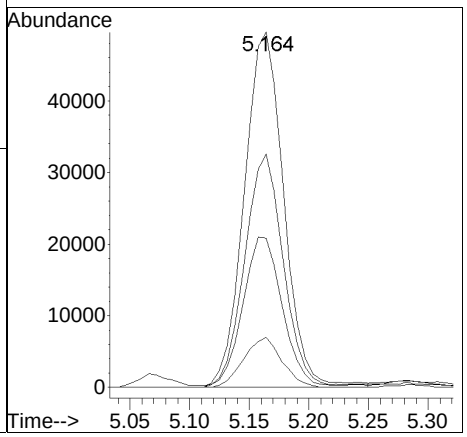


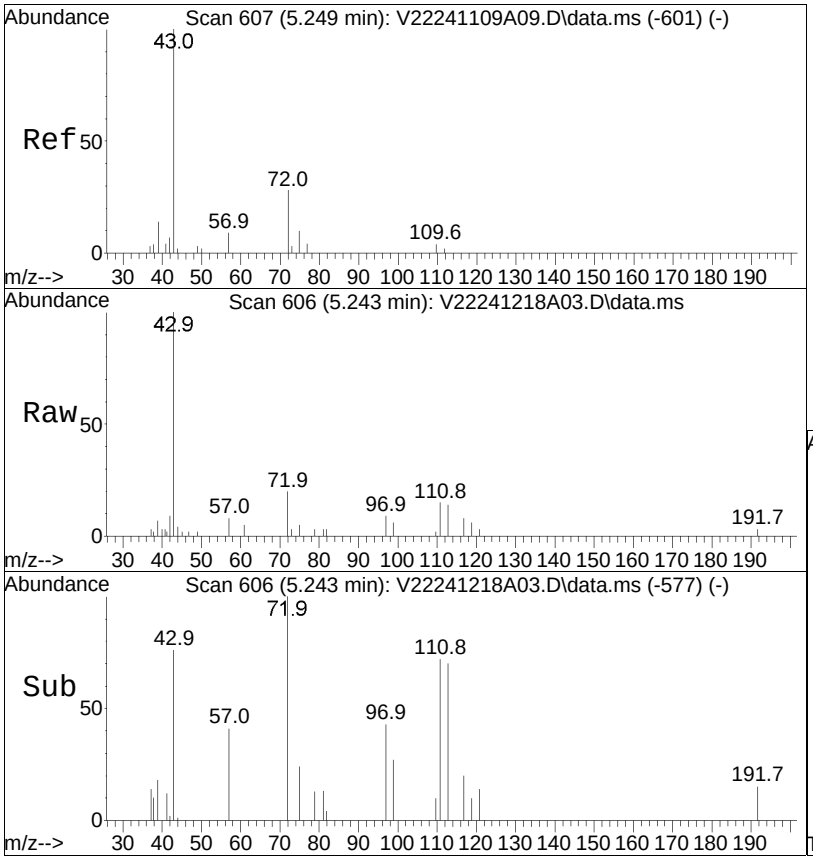


#39
1,1,1-Trichloroethane
Concen: 9.04 ug/L
RT: 5.164 min Scan# 594
Delta R.T. -0.000 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion: 97 Resp: 114451

Ion	Ratio	Lower	Upper
97	100		
99	64.3	42.4	88.0
61	42.1	26.0	54.0
63	13.6	8.3	17.3

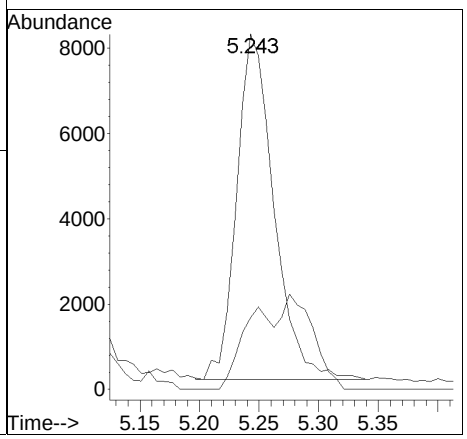


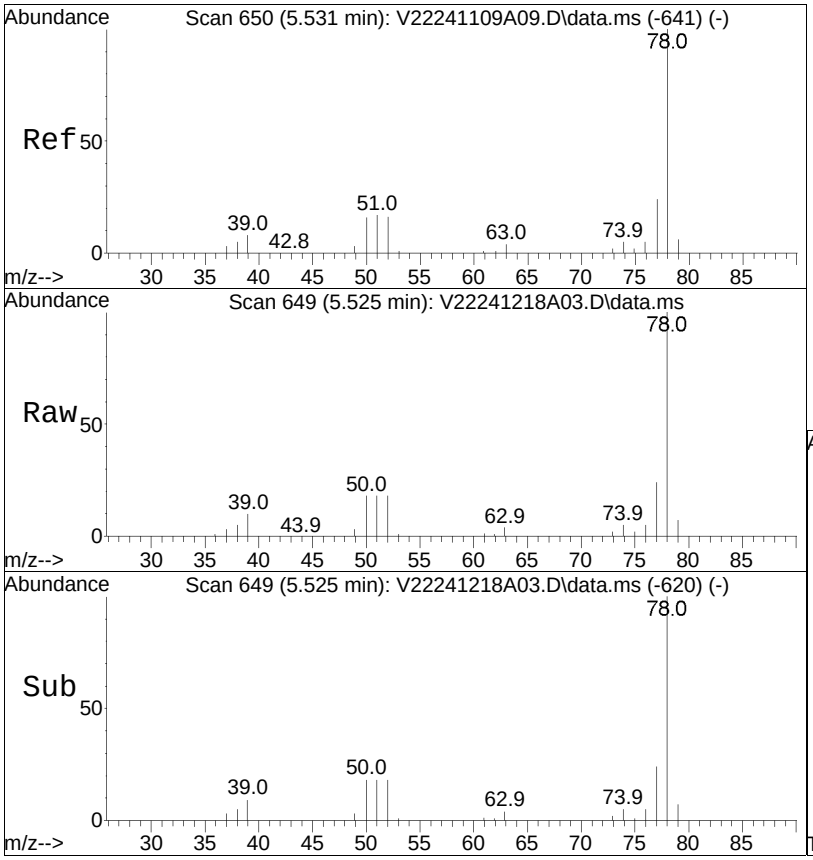


#41
2-Butanone
Concen: 10.49 ug/L
RT: 5.243 min Scan# 606
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion: 43 Resp: 17614

Ion	Ratio	Lower	Upper
43	100		
72	20.4	45.8	68.8#

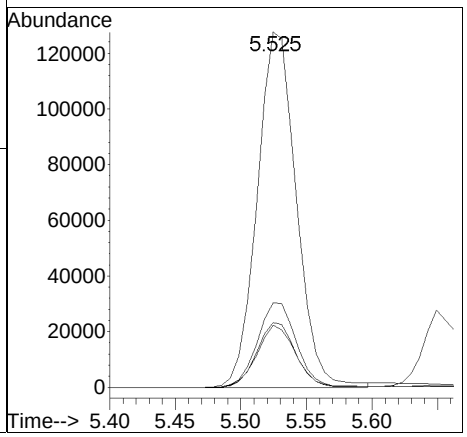


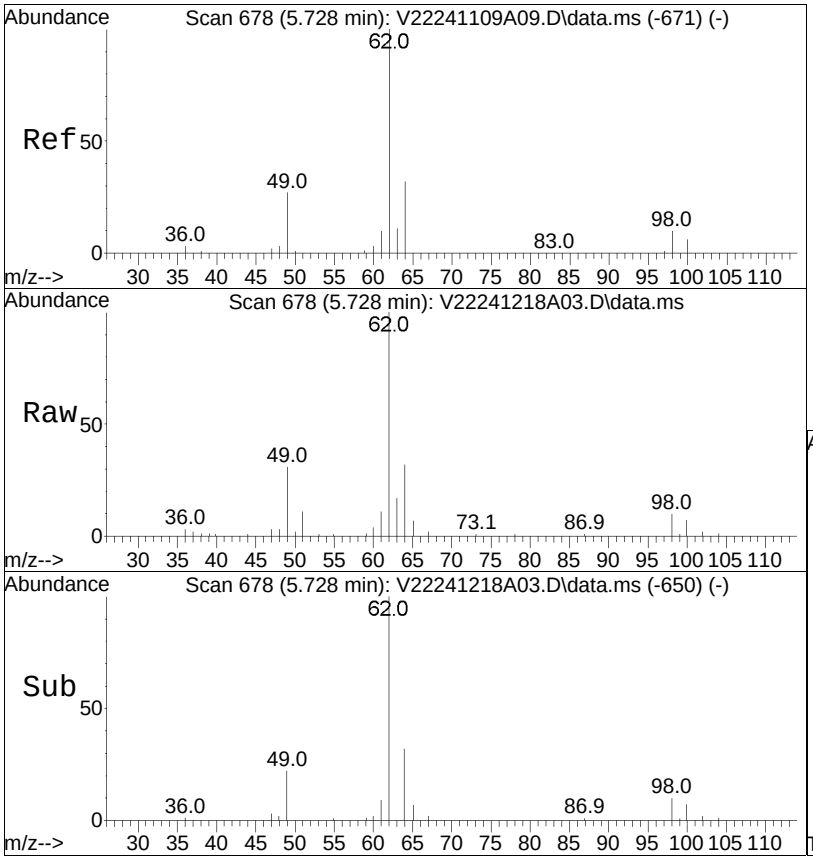


#44
Benzene
Concen: 8.76 ug/L
RT: 5.525 min Scan# 649
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion: 78 Resp: 264468

Ion	Ratio	Lower	Upper
78	100		
77	24.1	15.4	32.0
51	18.1	9.8	20.4
52	17.3	9.2	19.2

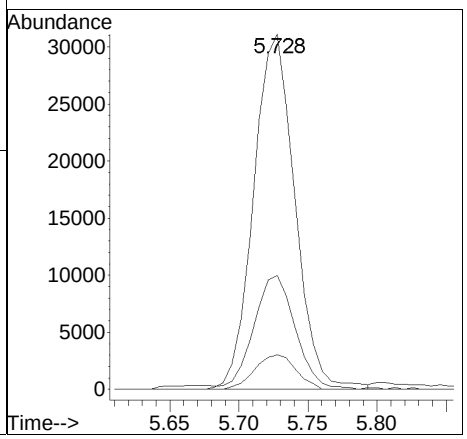


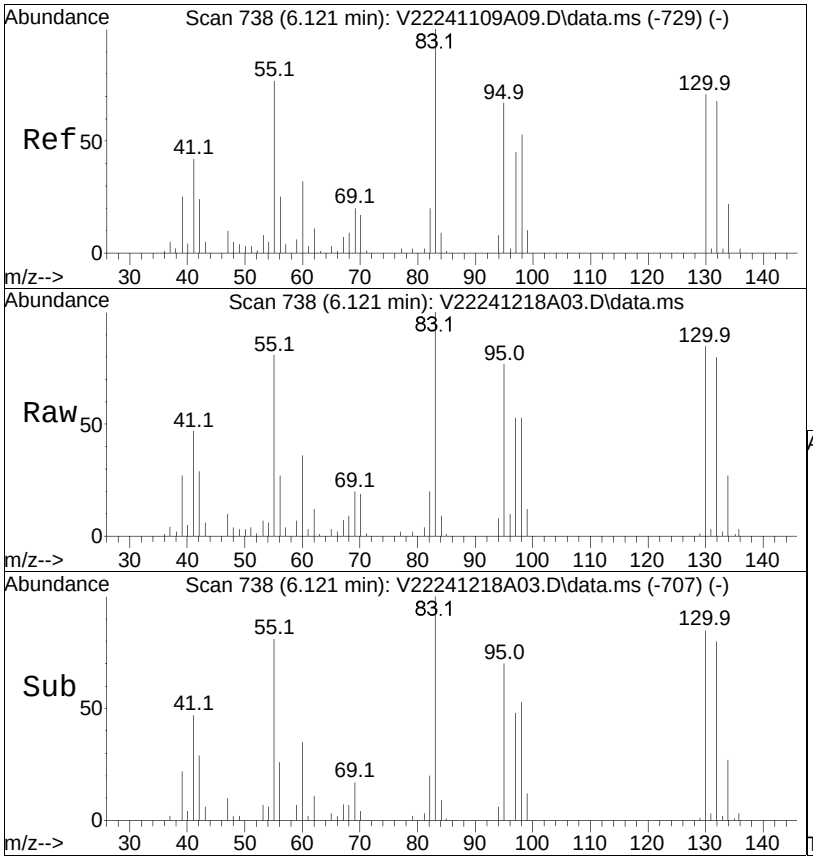


#47
1,2-Dichloroethane
Concen: 8.81 ug/L
RT: 5.728 min Scan# 678
Delta R.T. -0.000 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion: 62 Resp: 64629

Ion	Ratio	Lower	Upper
62	100		
64	36.3	12.3	52.3
98	9.8	0.0	30.3

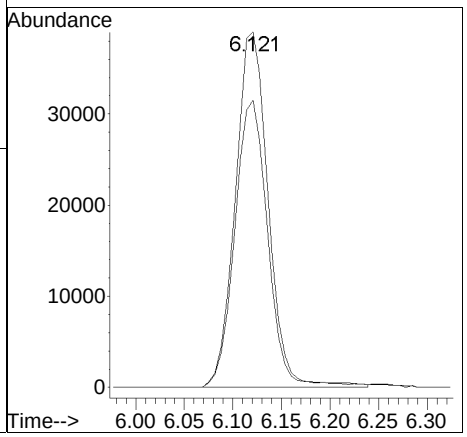


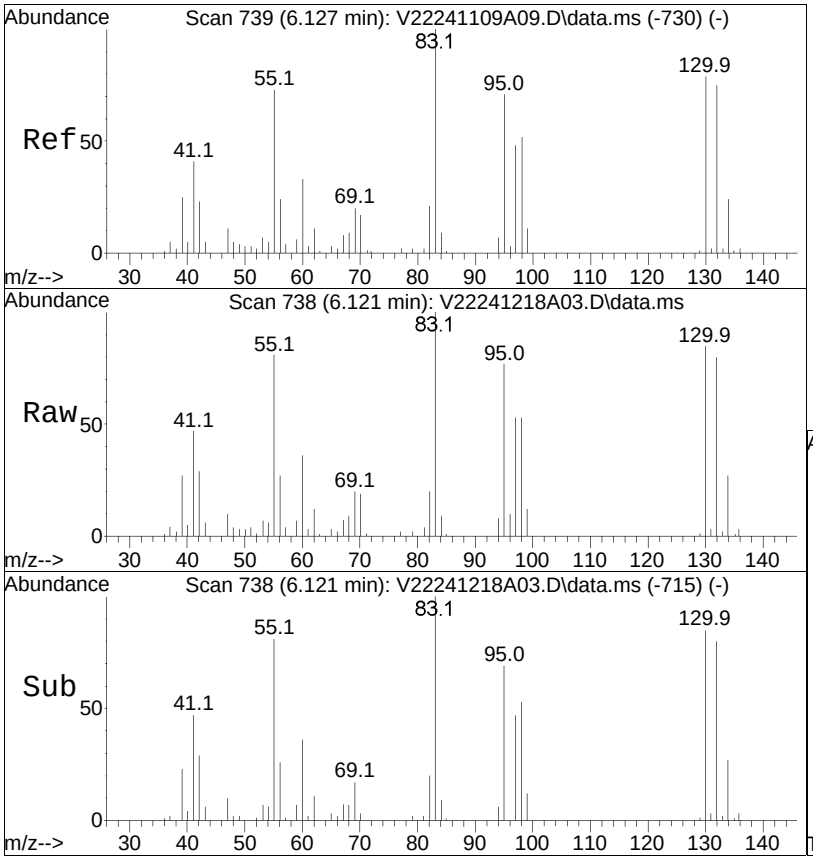


#50
Methyl cyclohexane
Concen: 8.33 ug/L
RT: 6.121 min Scan# 738
Delta R.T. -0.000 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion: 83 Resp: 92203

Ion	Ratio	Lower	Upper
83	100		
55	80.7	55.4	83.2

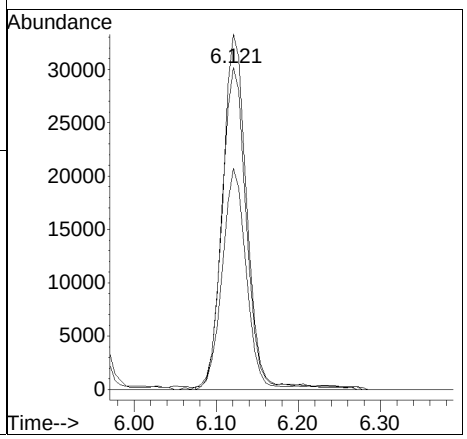


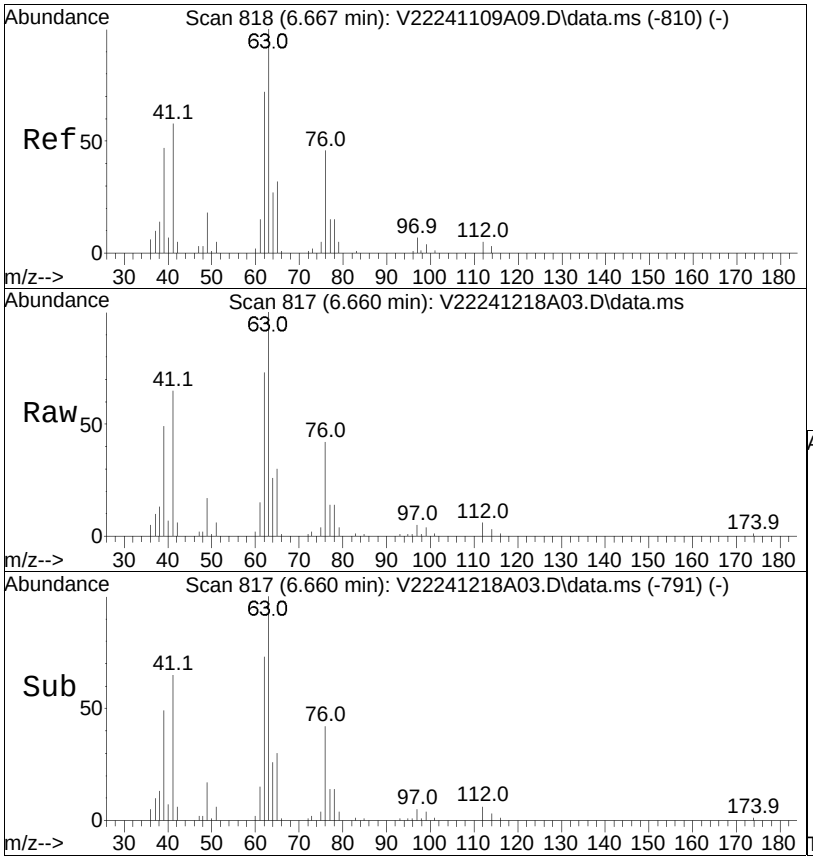


#51
Trichloroethene
Concen: 9.02 ug/L
RT: 6.121 min Scan# 738
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion: 95 Resp: 63393

Ion	Ratio	Lower	Upper
95	100		
97	66.3	55.0	82.4
130	107.1	89.2	133.8

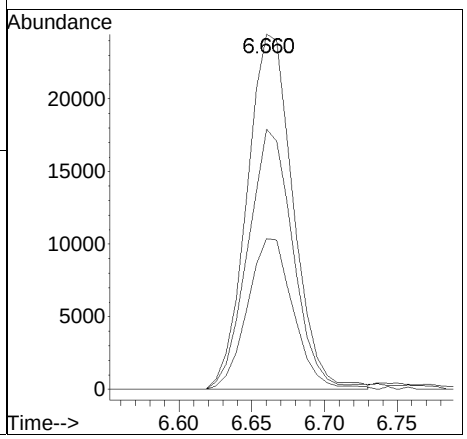


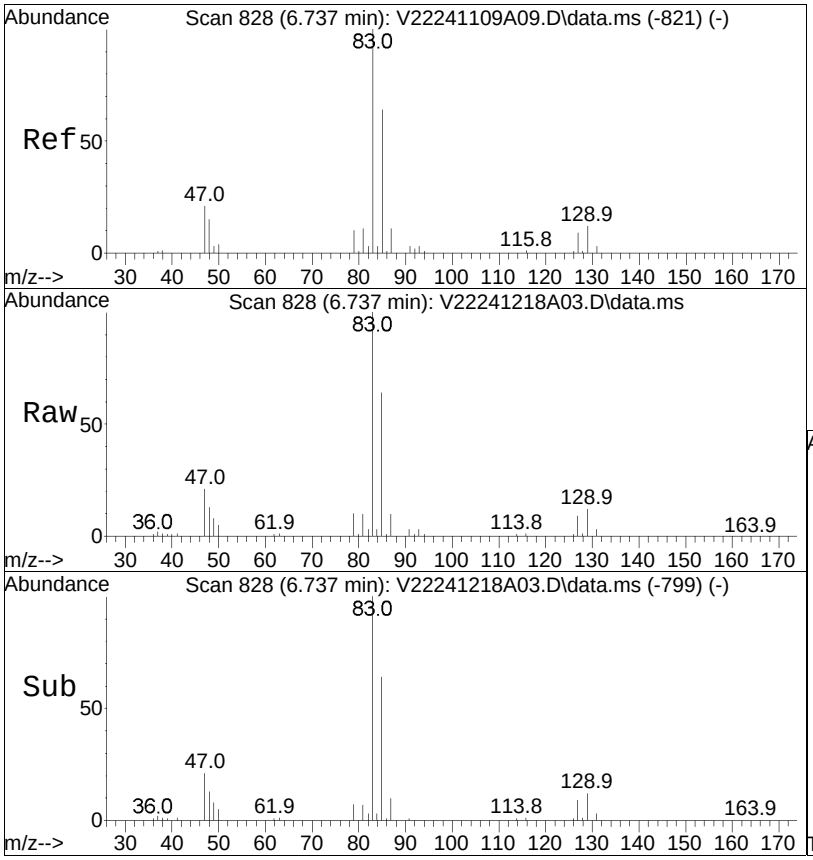


#54
1,2-Dichloropropane
Concen: 8.90 ug/L
RT: 6.660 min Scan# 817
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion: 63 Resp: 54001

Ion	Ratio	Lower	Upper
63	100		
62	71.3	56.9	85.3
76	42.2	35.8	53.8

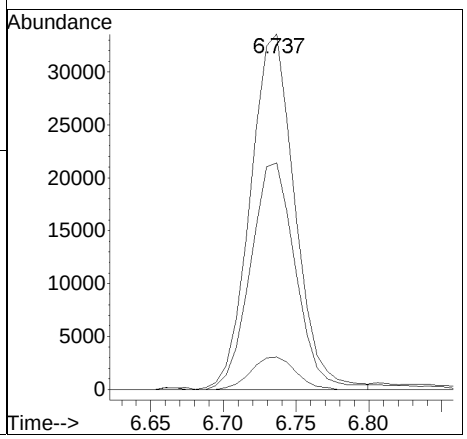


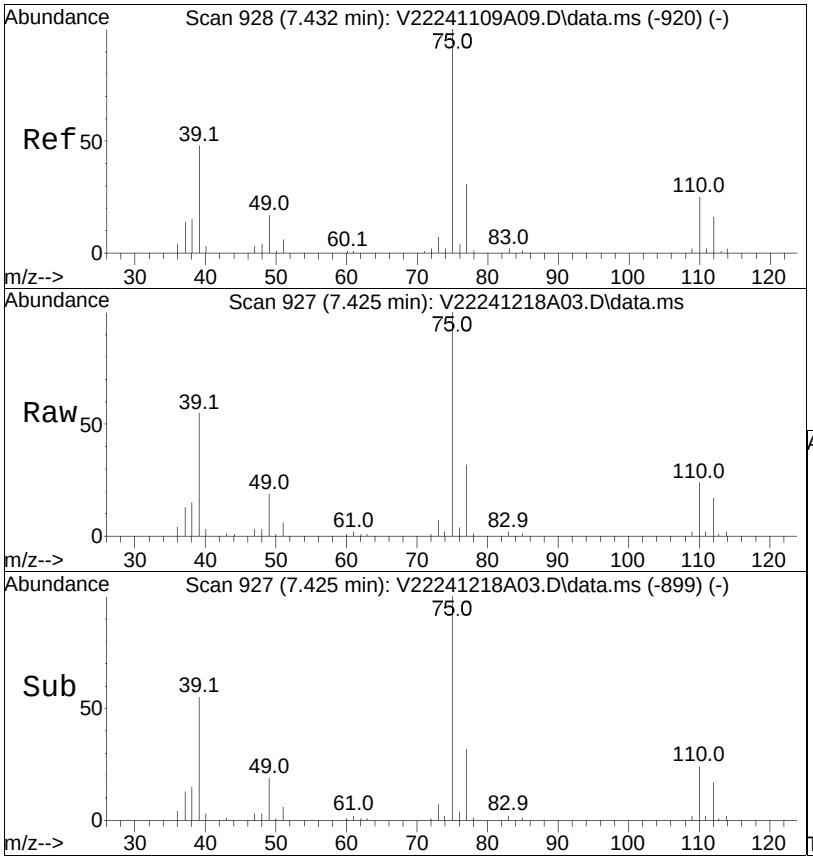


#57
Bromodichloromethane
Concen: 8.49 ug/L
RT: 6.737 min Scan# 828
Delta R.T. -0.000 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion: 83 Resp: 71566

Ion	Ratio	Lower	Upper
83	100		
85	65.9	51.6	77.4
127	9.1	7.4	11.0

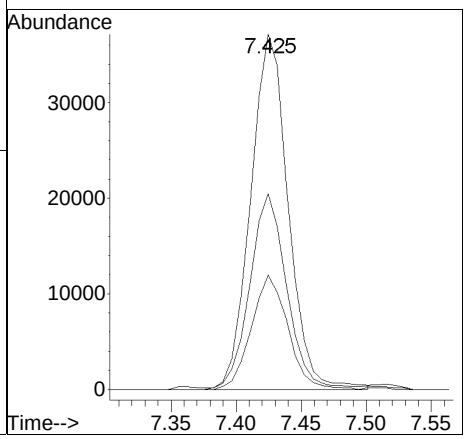


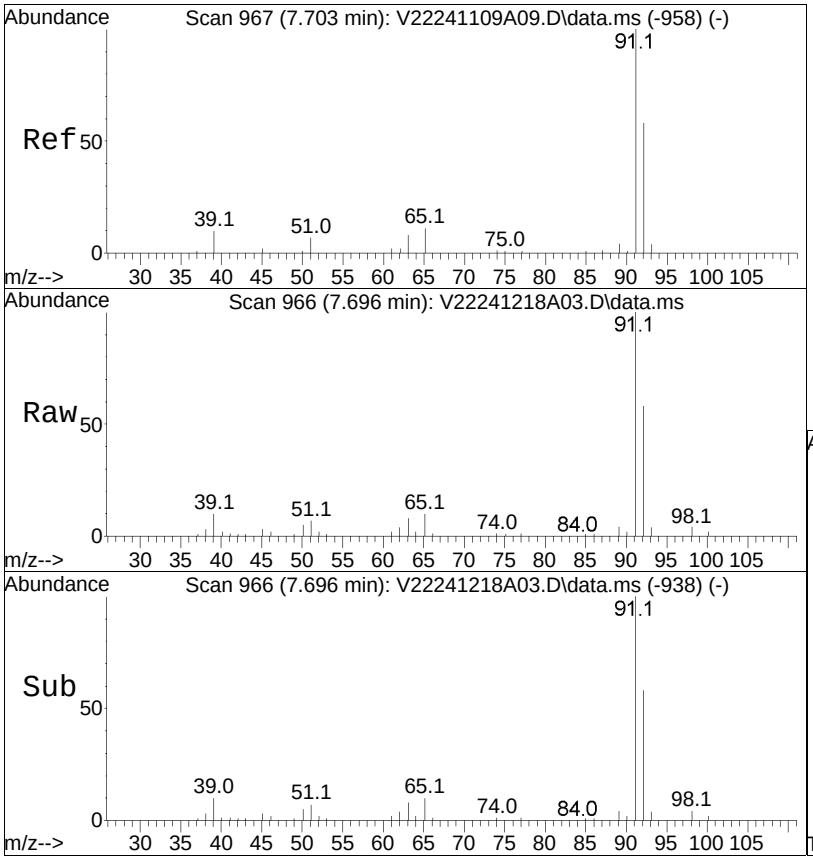


#61
cis-1,3-Dichloropropene
Concen: 8.48 ug/L
RT: 7.425 min Scan# 927
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion: 75 Resp: 74467

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.6	38.4
39	52.7	35.4	53.0

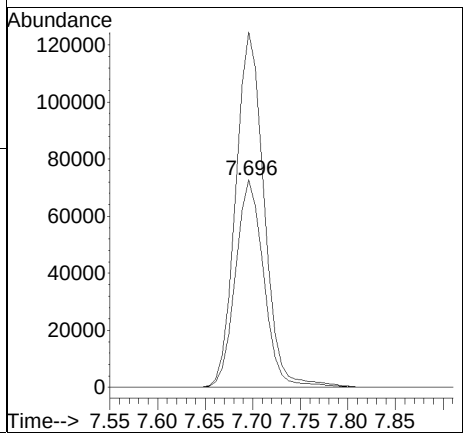


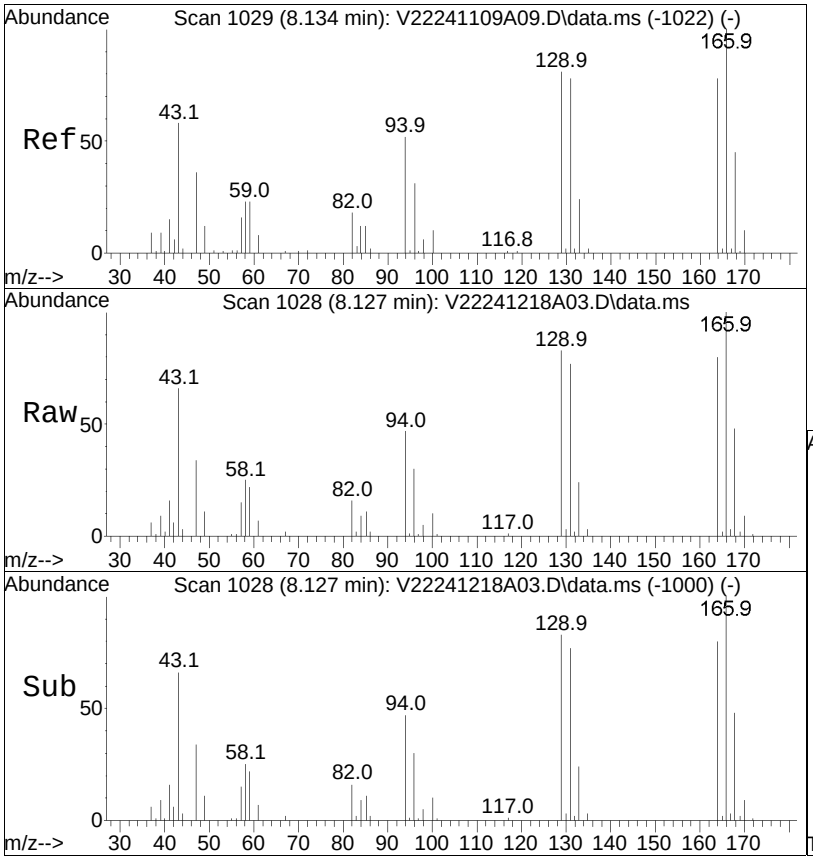


#64
Toluene
Concen: 9.24 ug/L
RT: 7.696 min Scan# 966
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion: 92 Resp: 151189

Ion	Ratio	Lower	Upper
92	100		
91	171.7	137.0	205.6

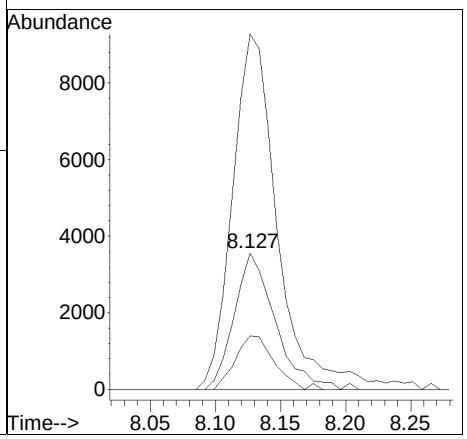


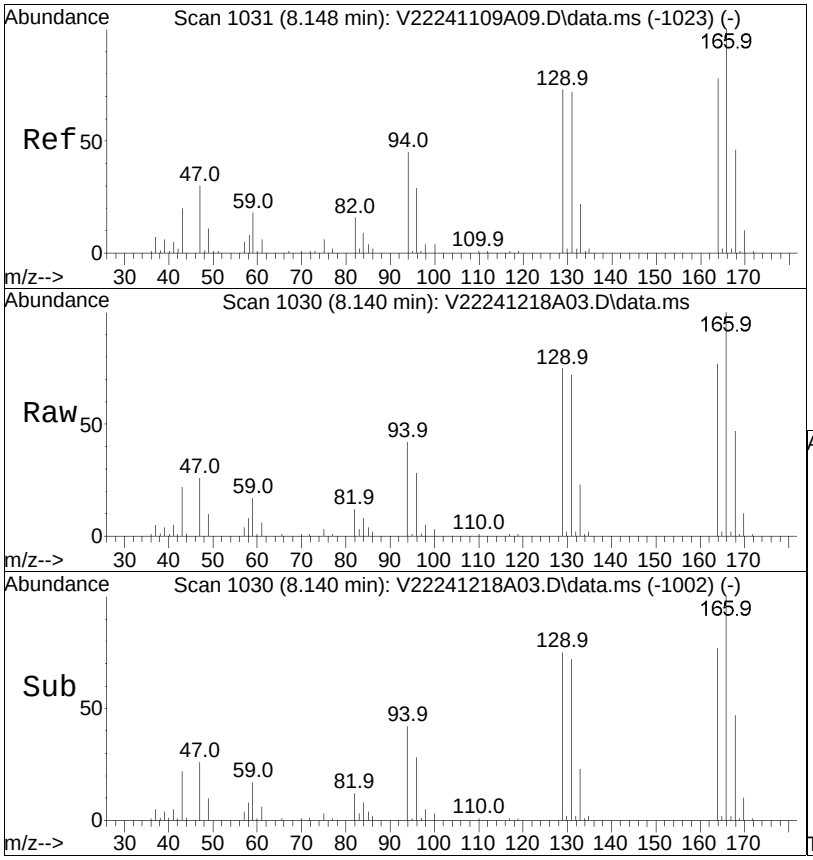


#65
4-Methyl-2-pentanone
Concen: 6.96 ug/L
RT: 8.127 min Scan# 1028
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion: 58 Resp: 7834

Ion	Ratio	Lower	Upper
58	100		
100	37.2	36.2	54.4
43	288.4	181.8	272.8#

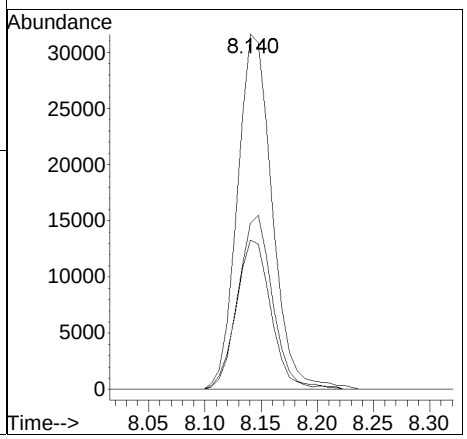


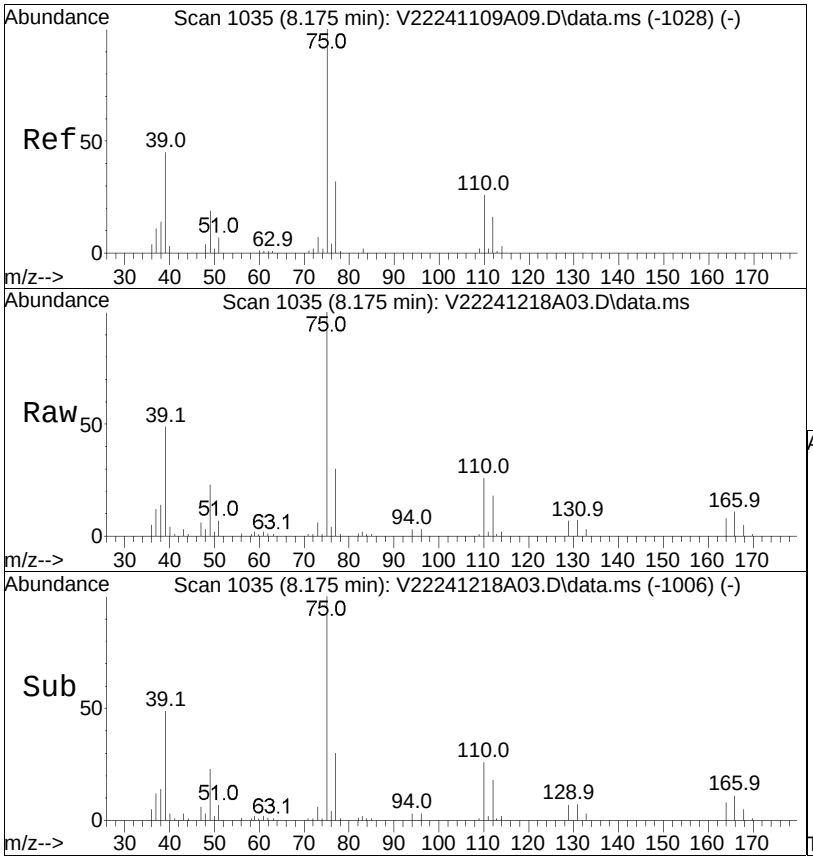


#66
Tetrachloroethene
Concen: 9.09 ug/L
RT: 8.140 min Scan# 1030
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion:166 Resp: 68168

Ion	Ratio	Lower	Upper
166	100		
168	48.4	27.8	67.8
94	42.3	16.7	56.7

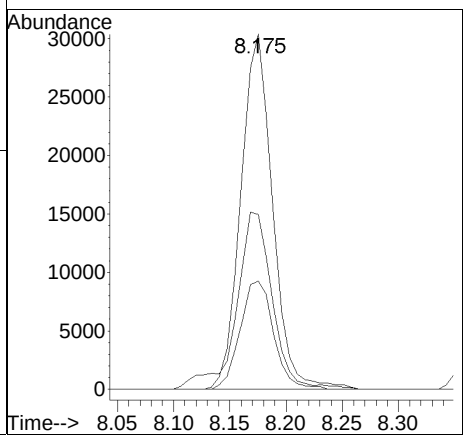


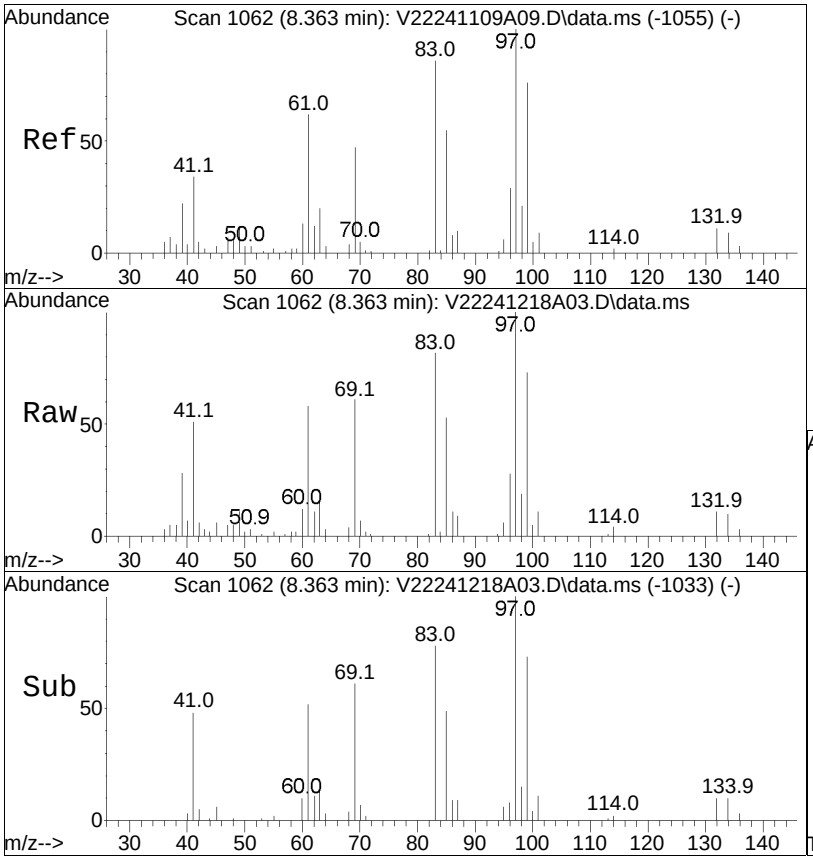


#68
trans-1,3-Dichloropropene
Concen: 8.01 ug/L
RT: 8.175 min Scan# 1035
Delta R.T. -0.000 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion: 75 Resp: 59837

Ion	Ratio	Lower	Upper
75	100		
77	32.2	11.9	51.9
39	56.6	27.4	67.4

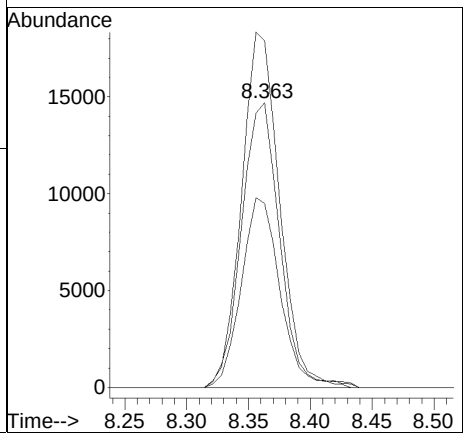


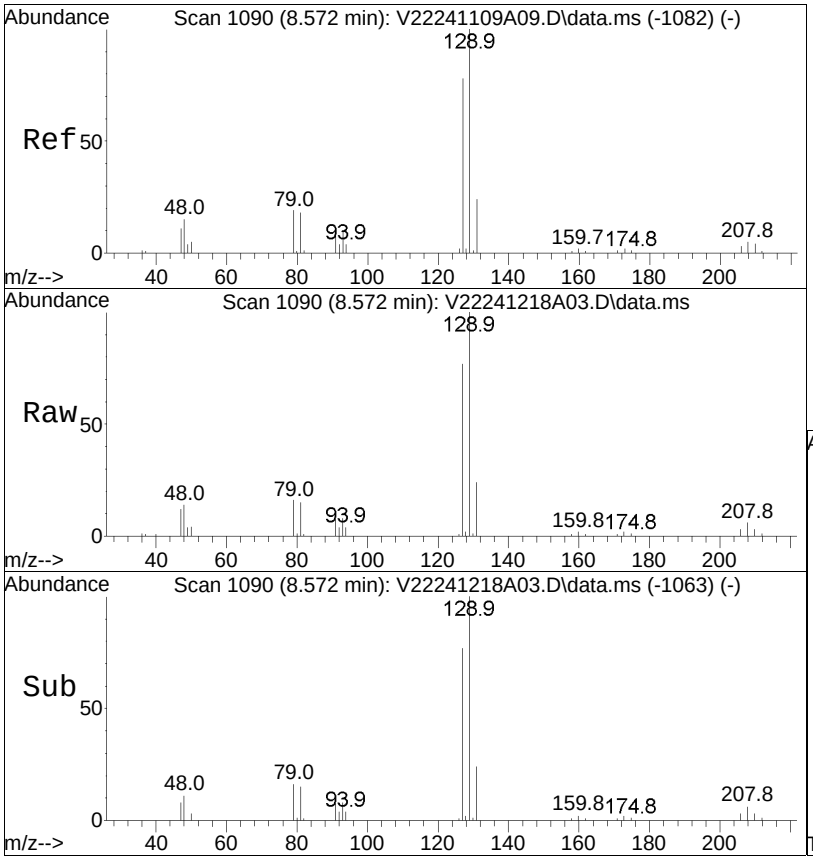


#71
1,1,2-Trichloroethane
Concen: 8.29 ug/L
RT: 8.363 min Scan# 1062
Delta R.T. -0.000 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion: 83 Resp: 31642

Ion	Ratio	Lower	Upper
83	100		
97	124.5	103.4	143.4
85	67.5	47.9	87.9

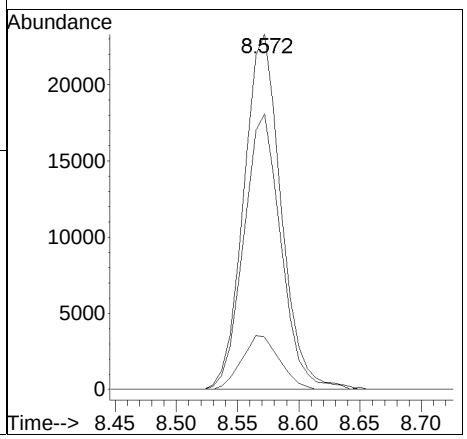


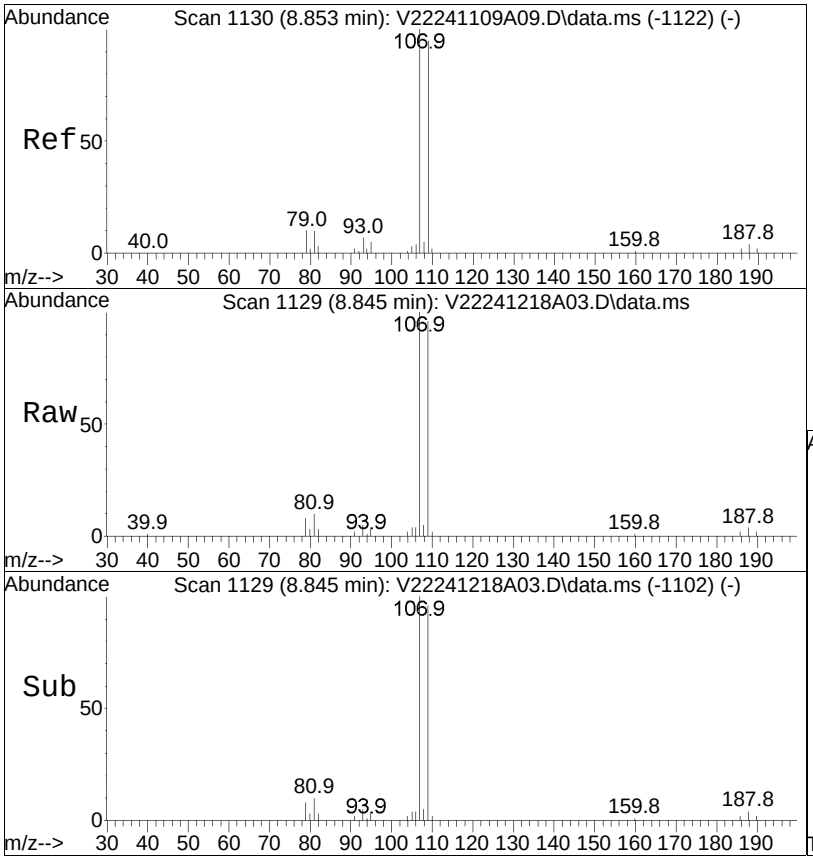


#72
Chlorodibromomethane
Concen: 7.86 ug/L
RT: 8.572 min Scan# 1090
Delta R.T. -0.000 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion:129 Resp: 49420

Ion	Ratio	Lower	Upper
129	100		
81	15.3	0.0	33.8
127	77.5	57.1	97.1

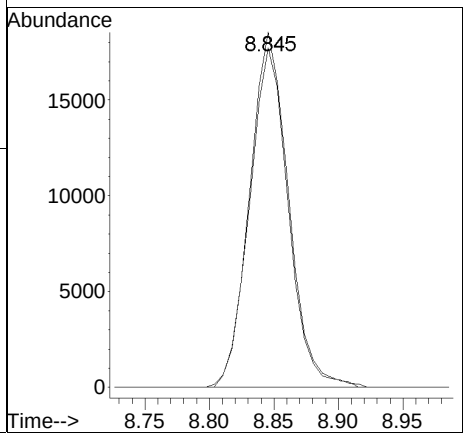


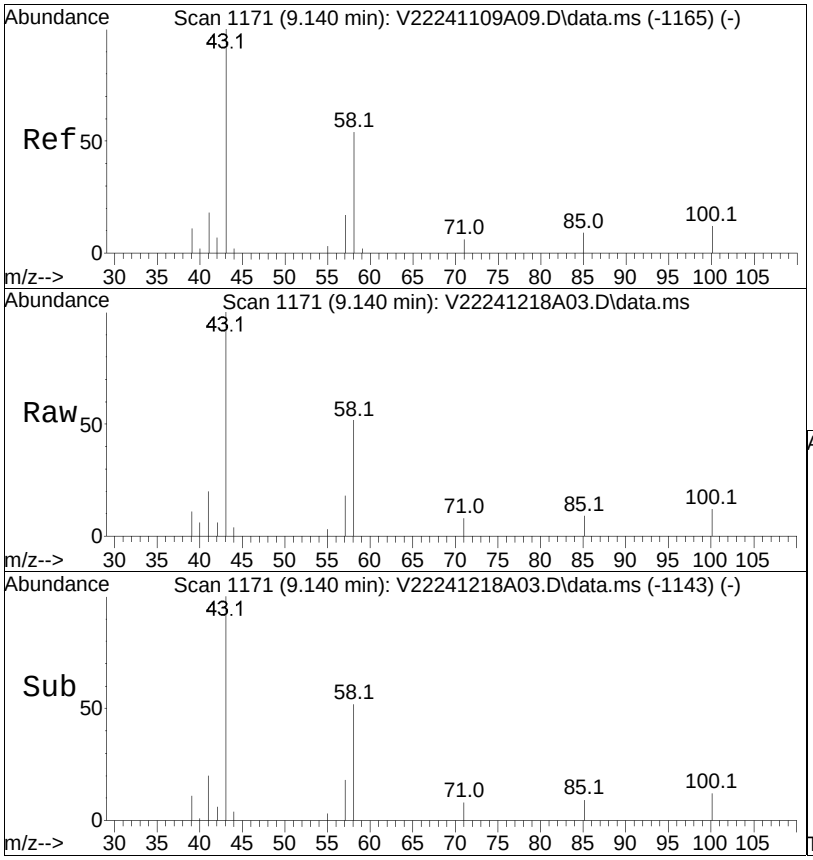


#74
1,2-Dibromoethane
Concen: 8.29 ug/L
RT: 8.845 min Scan# 1129
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion:107 Resp: 38941

Ion	Ratio	Lower	Upper
107	100		
109	95.3	75.1	112.7

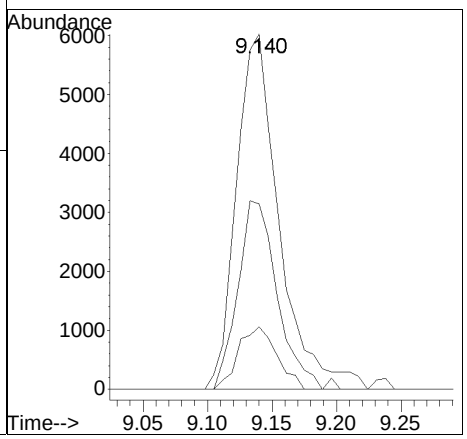


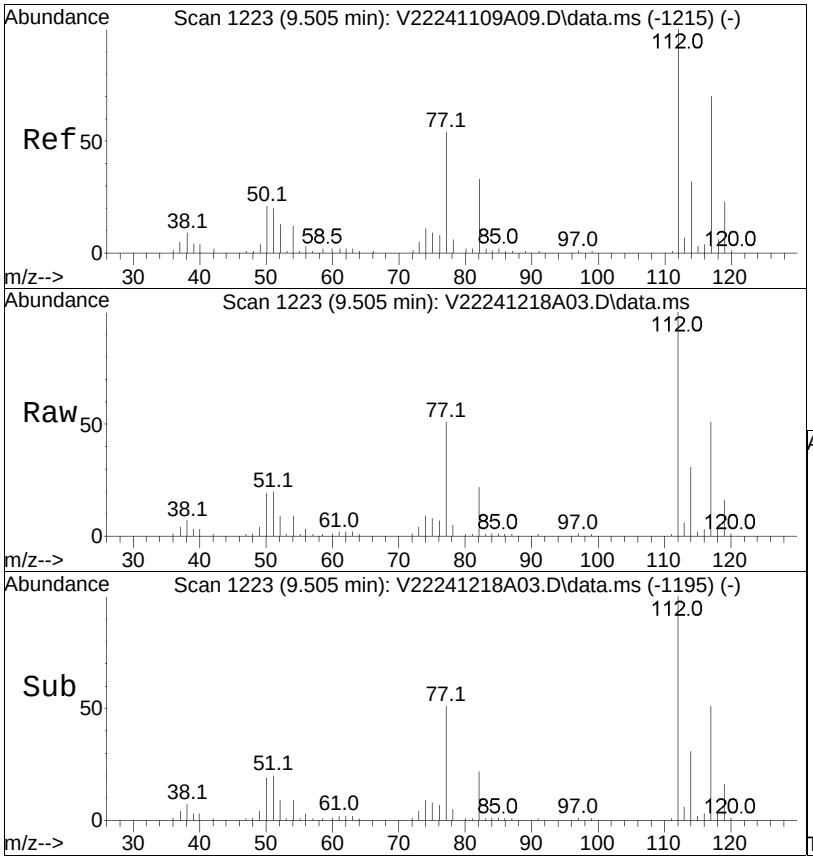


#76
2-Hexanone
Concen: 7.59 ug/L
RT: 9.140 min Scan# 1171
Delta R.T. -0.000 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion: 43 Resp: 13892

Ion	Ratio	Lower	Upper
43	100		
58	49.3	47.6	71.4
57	15.9	16.6	24.8#

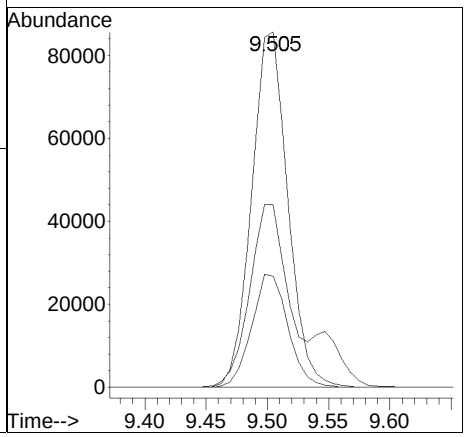


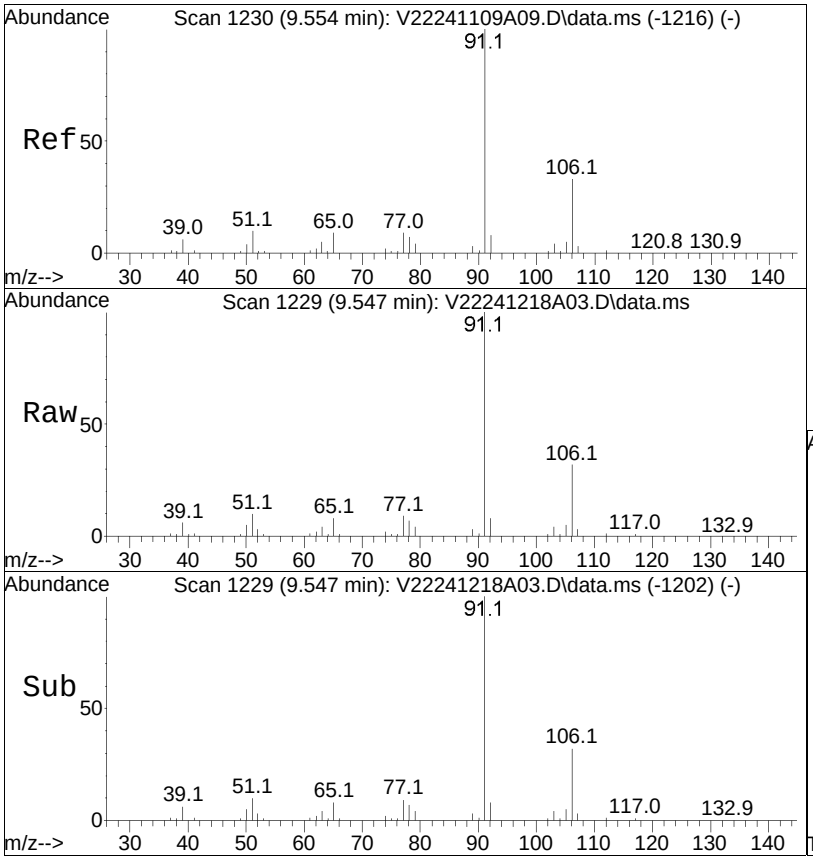


#77
Chlorobenzene
Concen: 9.32 ug/L
RT: 9.505 min Scan# 1223
Delta R.T. -0.000 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion:112 Resp: 176084

Ion	Ratio	Lower	Upper
112	100		
77	55.1	55.4	83.0#
114	32.0	26.2	39.4

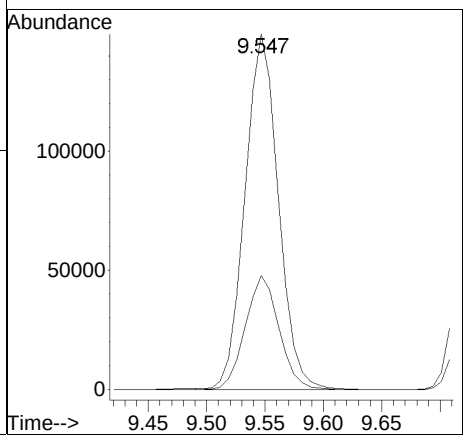


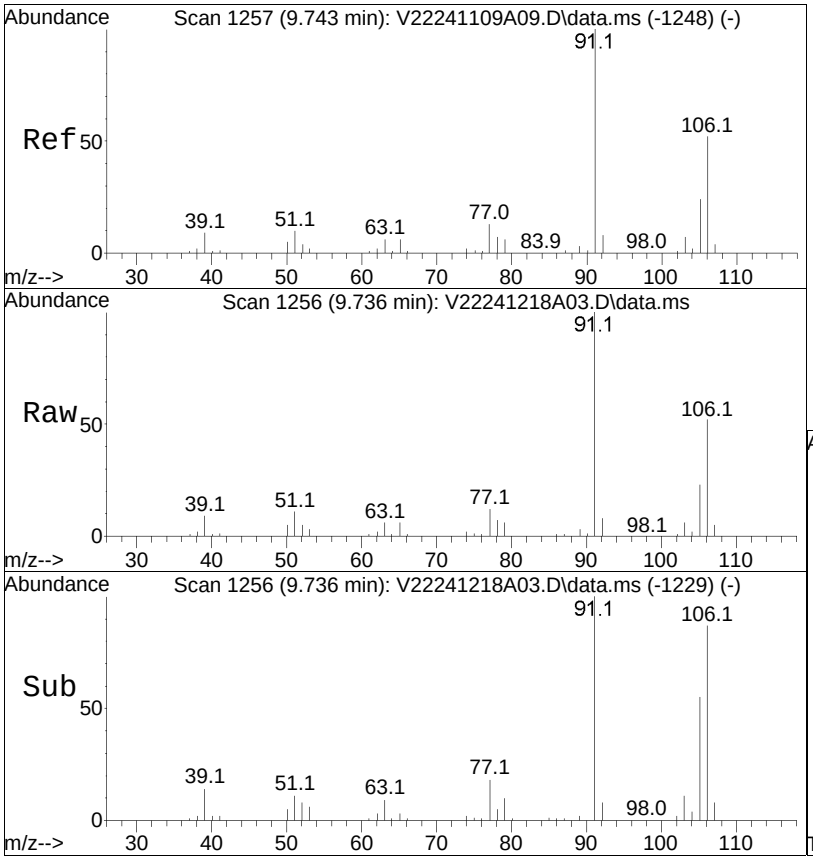


#78
Ethylbenzene
Concen: 9.11 ug/L
RT: 9.547 min Scan# 1229
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion: 91 Resp: 296375

Ion	Ratio	Lower	Upper
91	100		
106	32.2	25.8	38.6

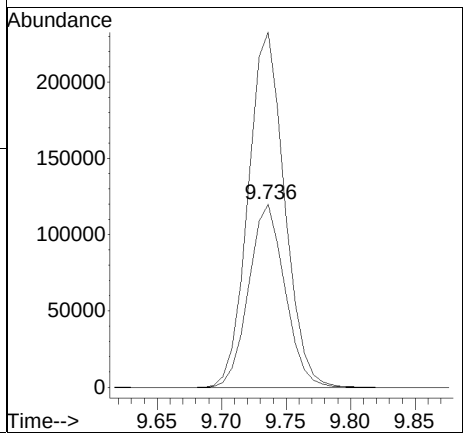


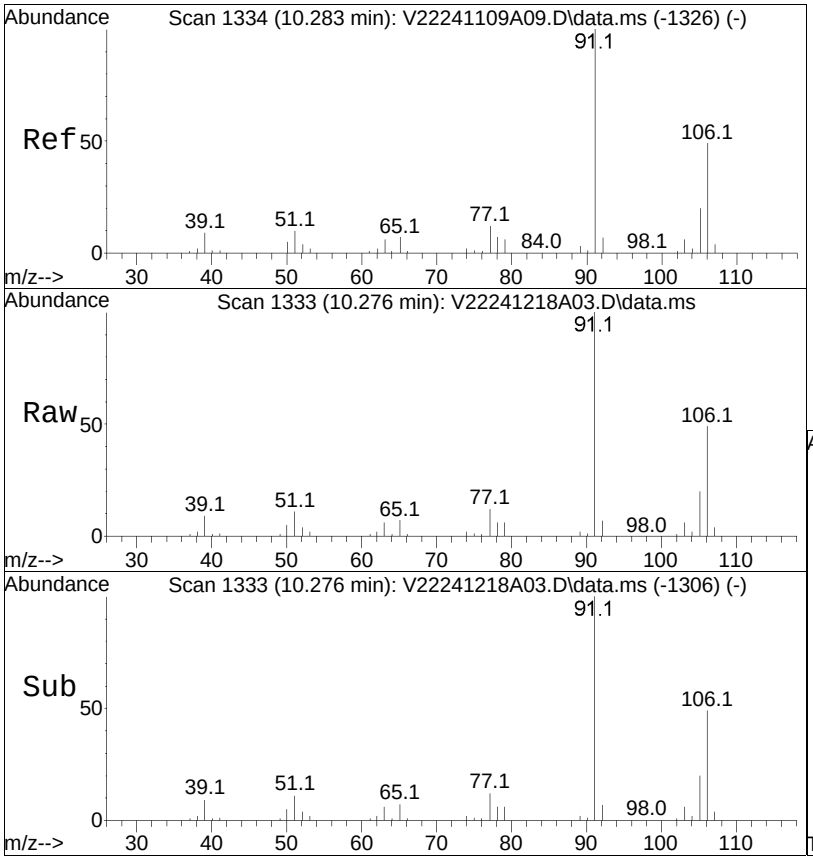


#80
p/m Xylene
Concen: 17.46 ug/L
RT: 9.736 min Scan# 1256
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion:106 Resp: 234321

Ion	Ratio	Lower	Upper
106	100		
91	195.1	156.0	234.0

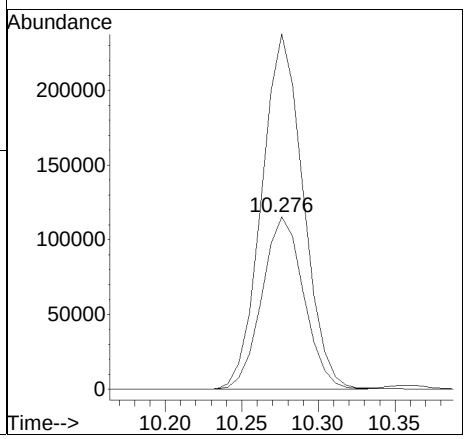


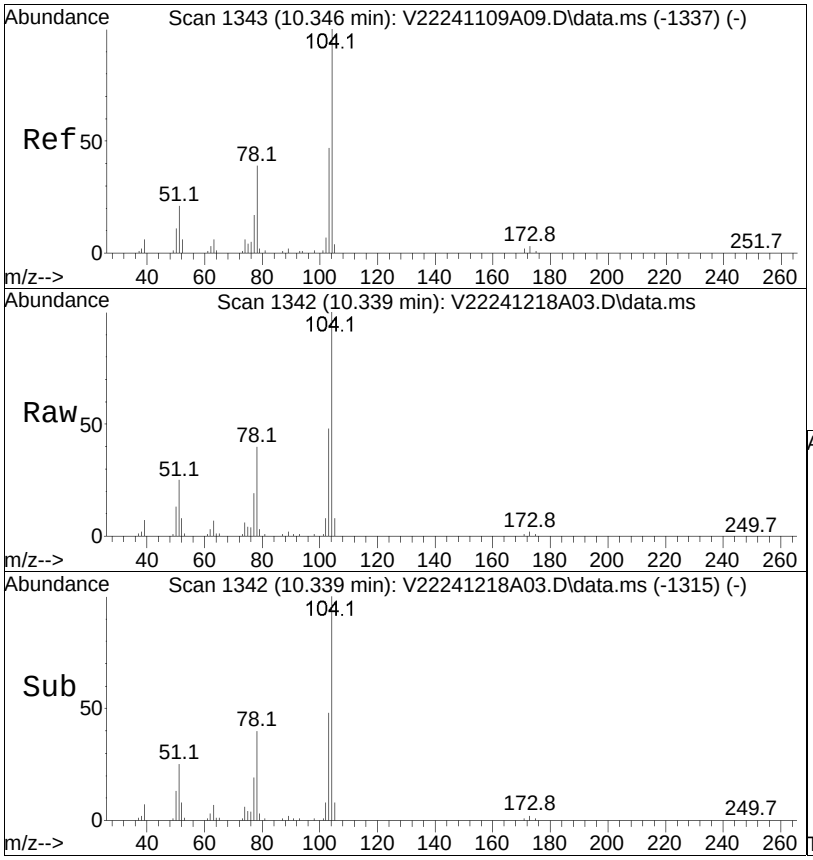


#81
o Xylene
Concen: 17.16 ug/L
RT: 10.276 min Scan# 1333
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion:106 Resp: 219534

Ion	Ratio	Lower	Upper
106	100		
91	204.5	164.0	246.0

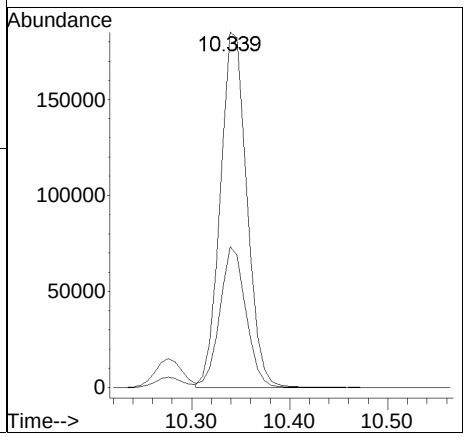


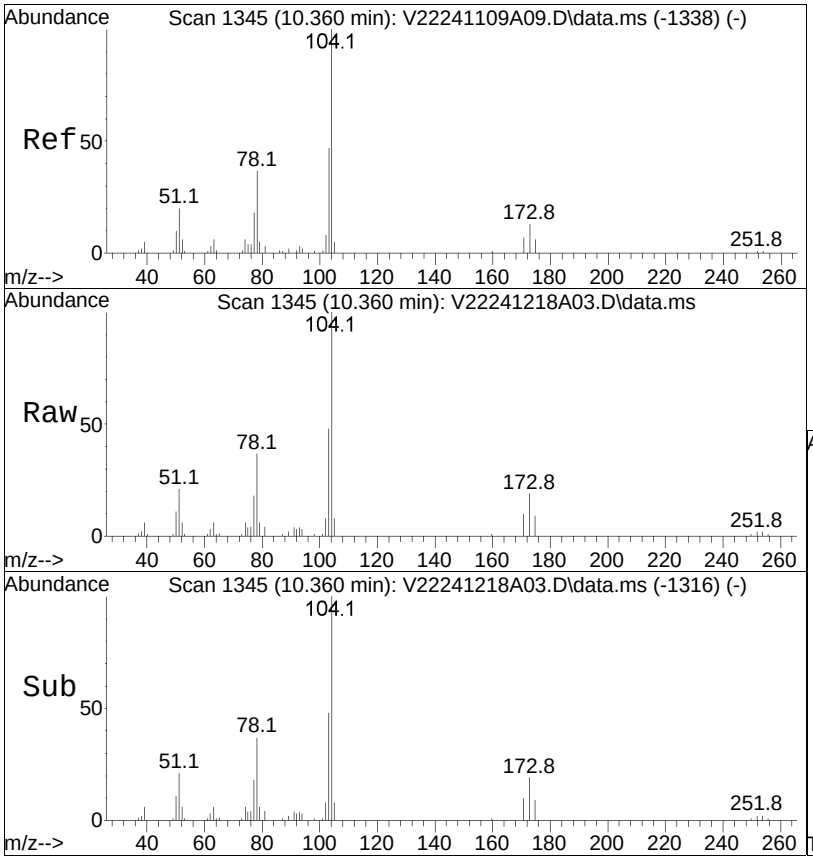


#82
Styrene
Concen: 16.93 ug/L
RT: 10.339 min Scan# 1342
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion:104 Resp: 348129

Ion	Ratio	Lower	Upper
104	100		
78	38.7	32.1	48.1

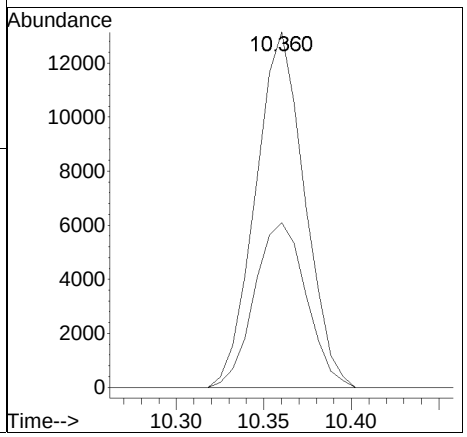


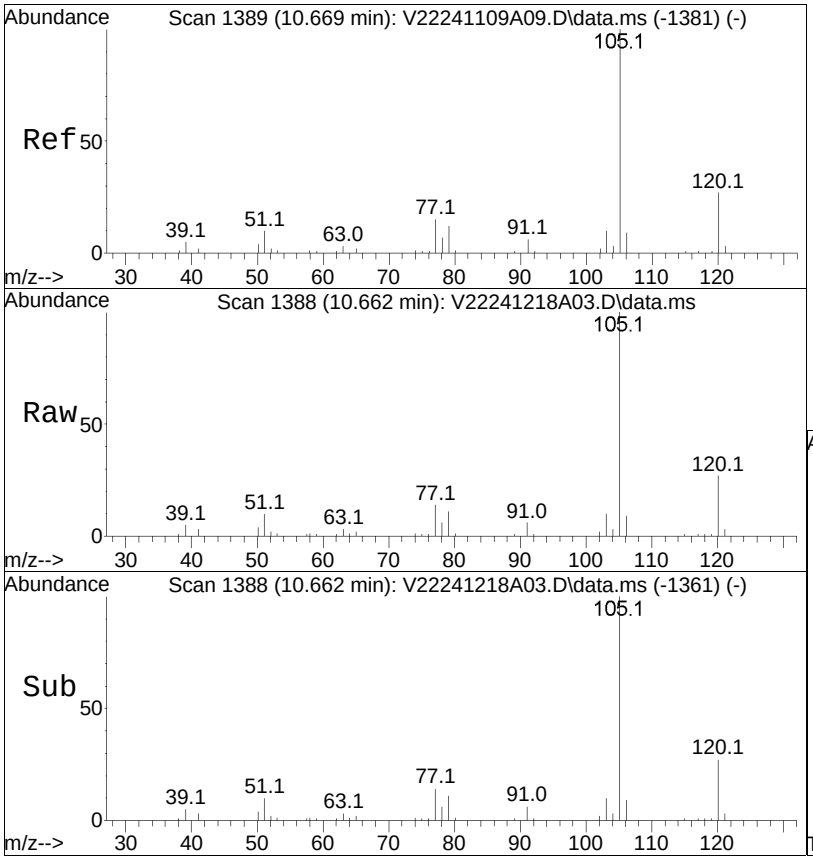


#84
Bromoform
Concen: 7.63 ug/L
RT: 10.360 min Scan# 1345
Delta R.T. 0.000 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion:173 Resp: 25625

Ion	Ratio	Lower	Upper
173	100		
175	48.9	29.3	69.3

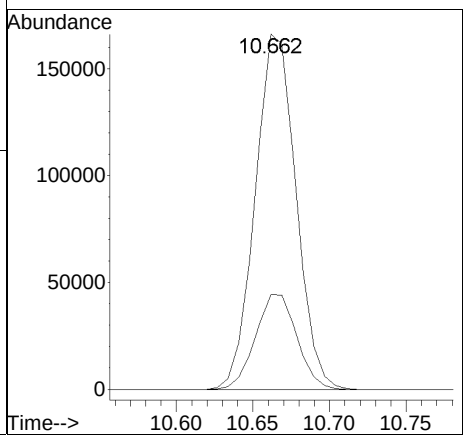


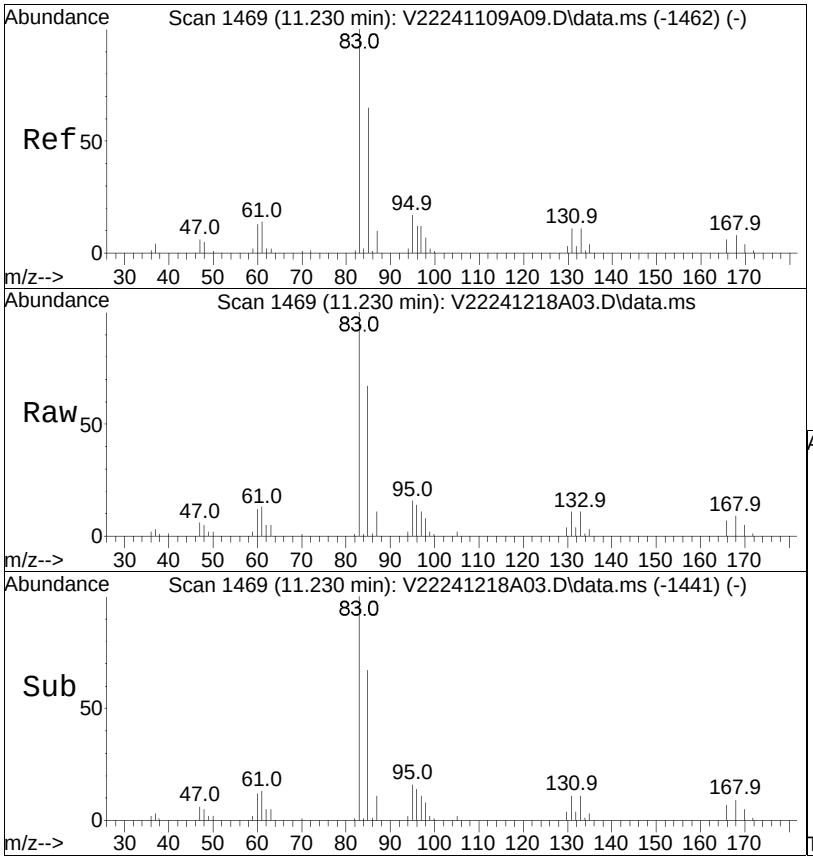


#86
Isopropylbenzene
Concen: 9.62 ug/L
RT: 10.662 min Scan# 1388
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion:105 Resp: 307667

Ion	Ratio	Lower	Upper
105	100		
120	27.2	7.7	47.7

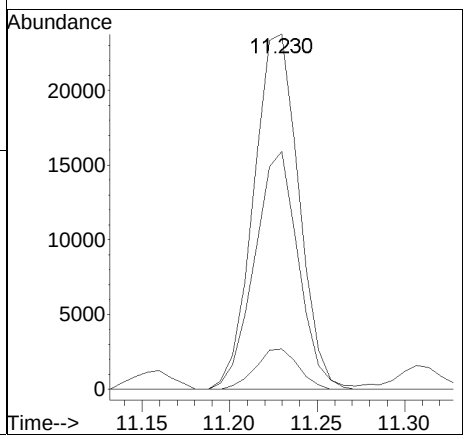


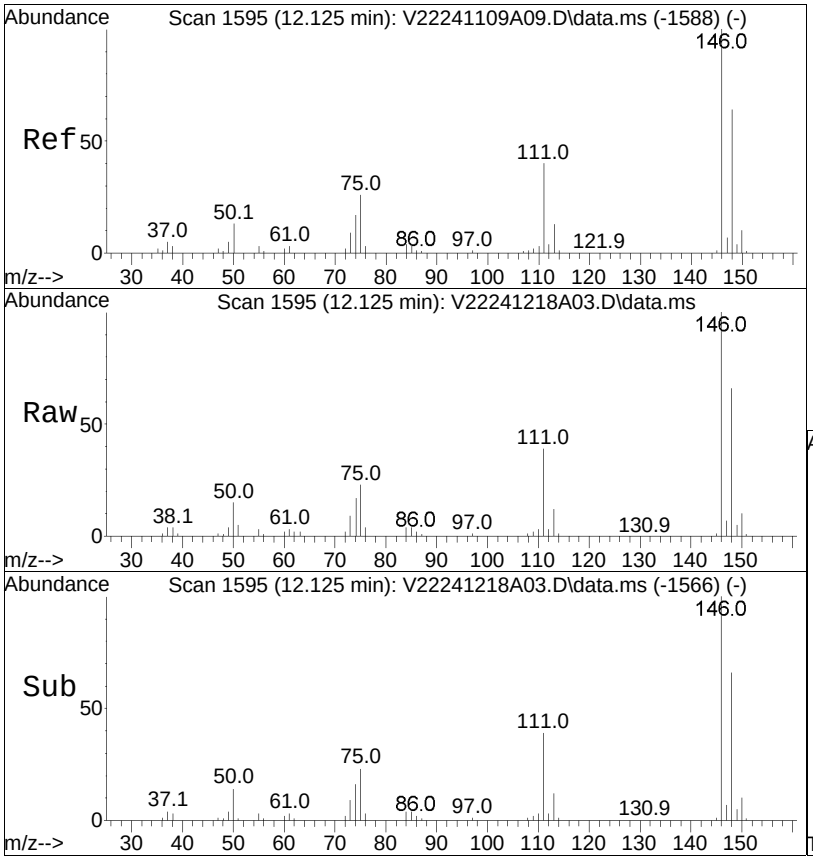


#91
1,1,2,2-Tetrachloroethane
Concen: 8.55 ug/L
RT: 11.230 min Scan# 1469
Delta R.T. -0.000 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion: 83 Resp: 42587

Ion	Ratio	Lower	Upper
83	100		
131	10.9	0.0	30.8
85	65.4	45.4	85.4

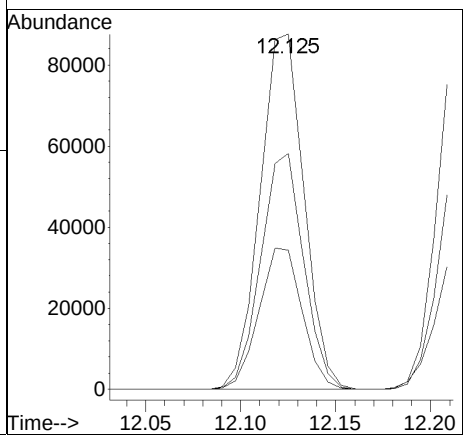


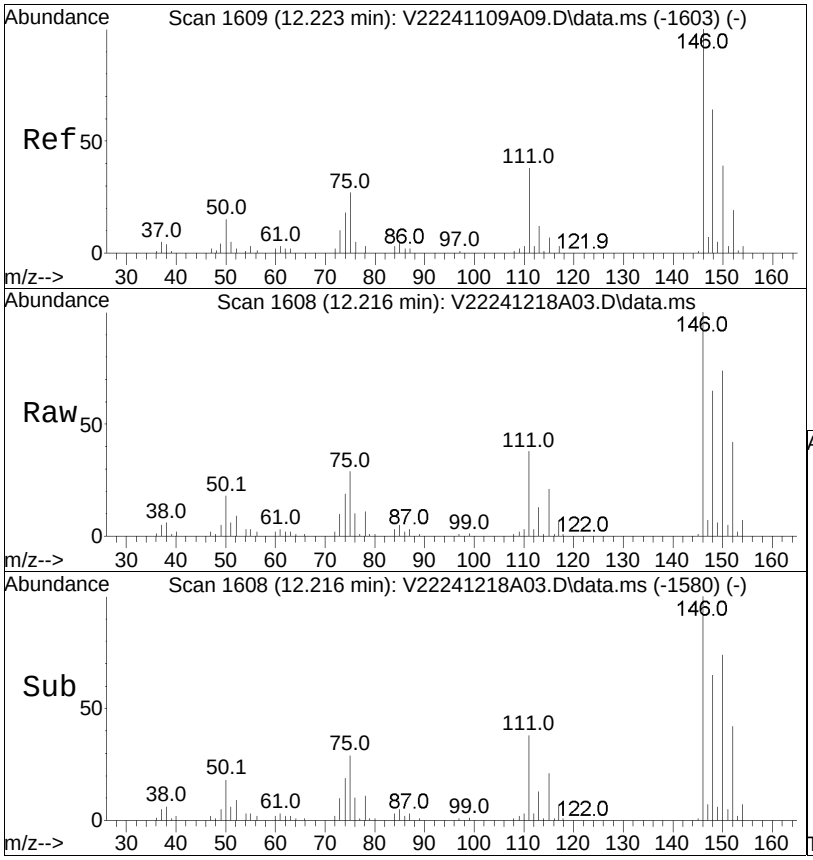


#104
1,3-Dichlorobenzene
Concen: 9.25 ug/L
RT: 12.125 min Scan# 1595
Delta R.T. -0.000 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion:146 Resp: 140885

Ion	Ratio	Lower	Upper
146	100		
111	39.3	24.0	49.8
148	64.8	41.8	86.8

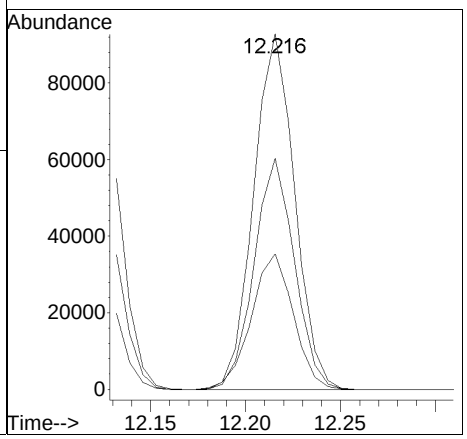


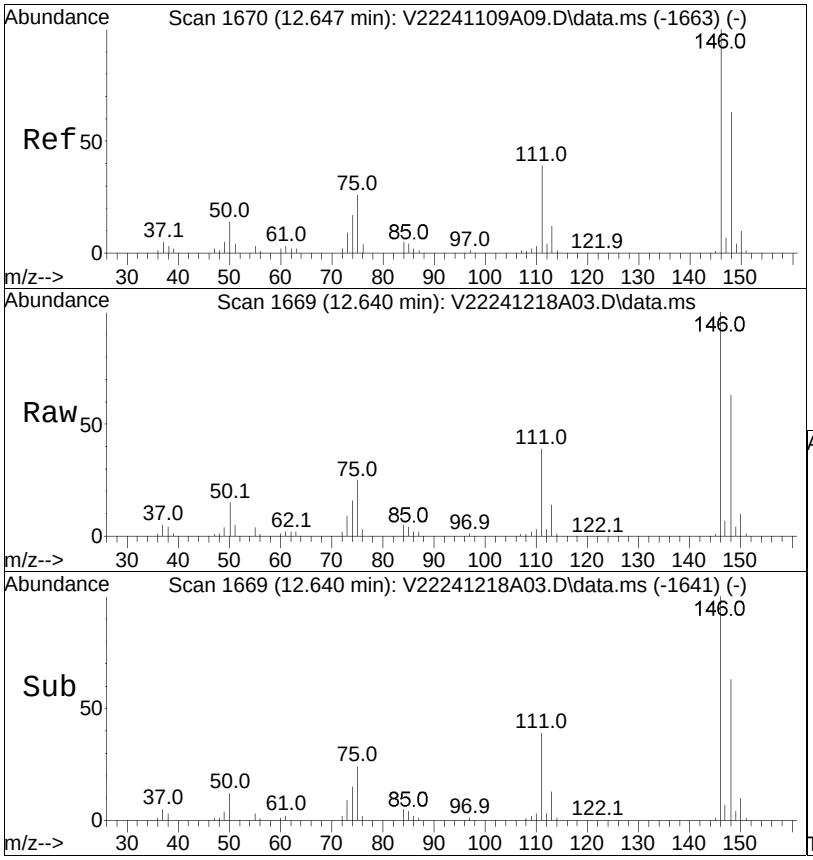


#105
1,4-Dichlorobenzene
Concen: 9.15 ug/L
RT: 12.216 min Scan# 1608
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion:146 Resp: 139243

Ion	Ratio	Lower	Upper
146	100		
111	39.2	28.9	43.3
148	64.0	51.4	77.2

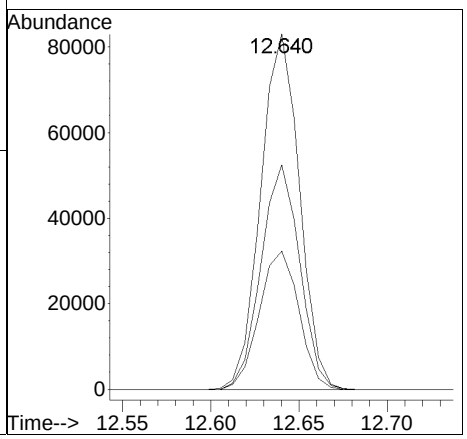


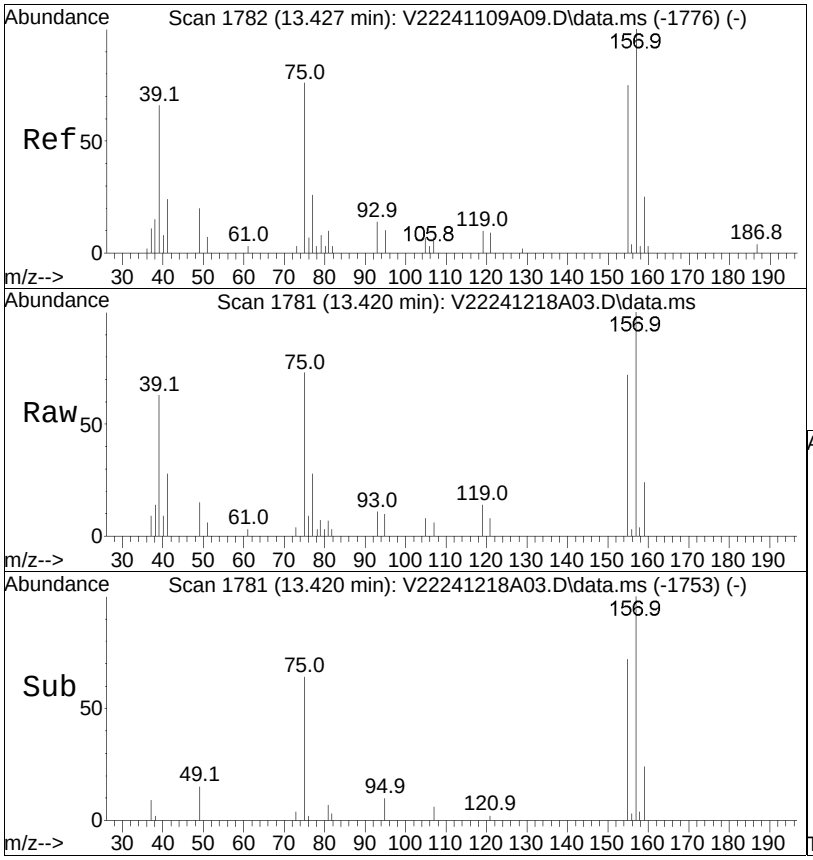


#108
1,2-Dichlorobenzene
Concen: 9.35 ug/L
RT: 12.640 min Scan# 1669
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion:146 Resp: 126968

Ion	Ratio	Lower	Upper
146	100		
111	39.8	24.8	51.6
148	63.2	42.2	87.6

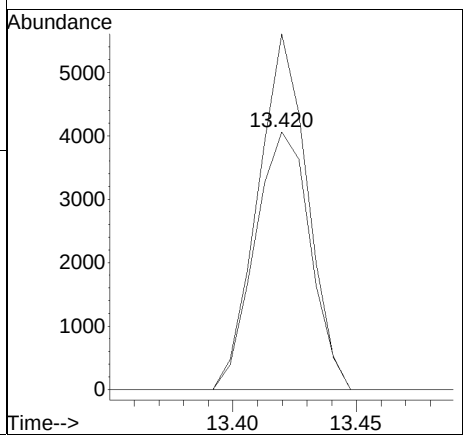


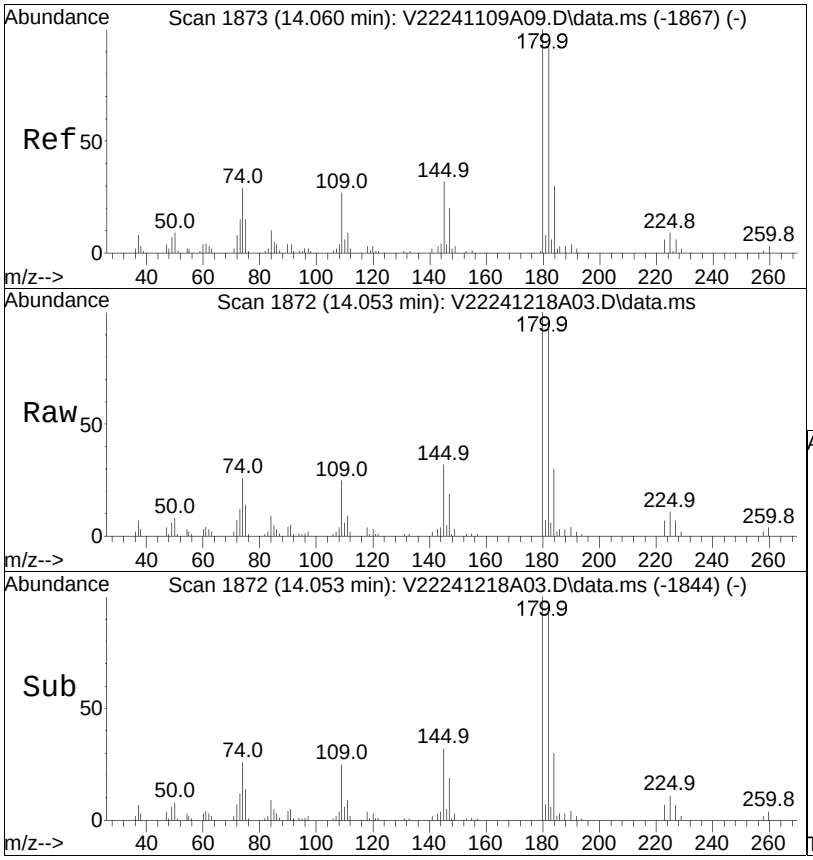


#110
1,2-Dibromo-3-chloropropane
Concen: 8.16 ug/L
RT: 13.420 min Scan# 1781
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion:155 Resp: 6328

Ion	Ratio	Lower	Upper
155	100		
157	123.5	102.3	153.5

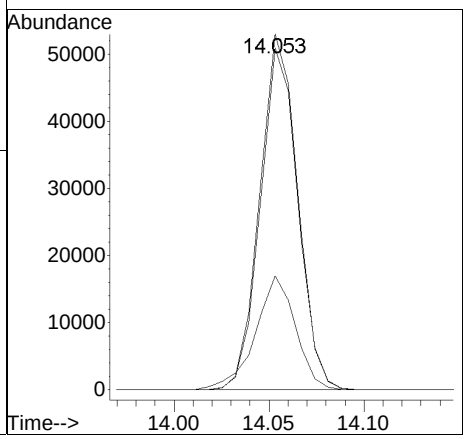


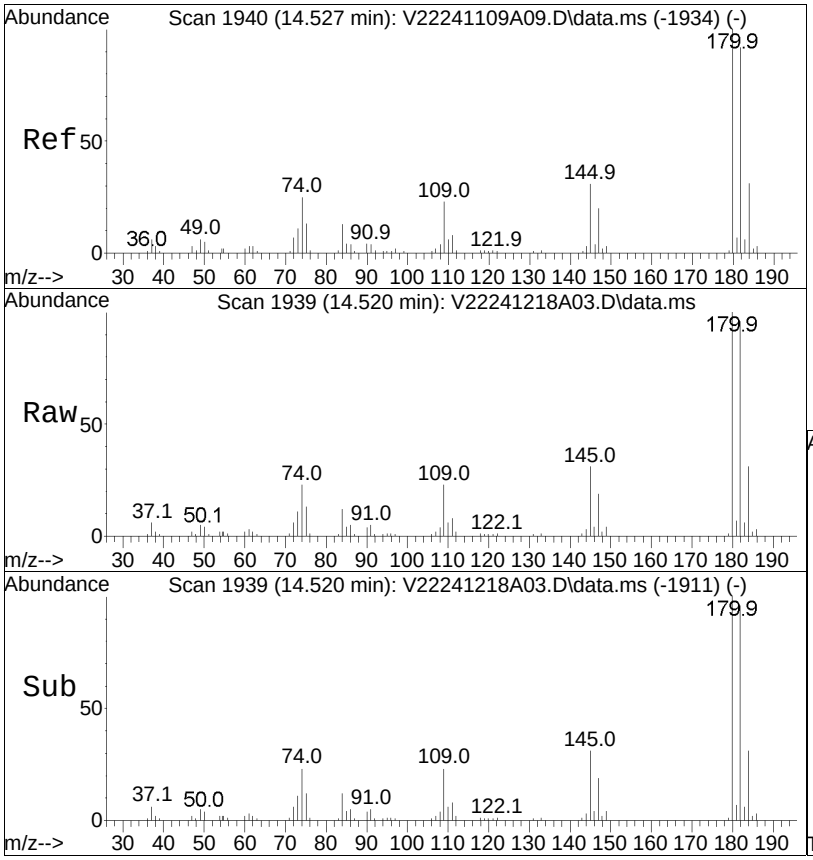


#113
1,2,4-Trichlorobenzene
Concen: 9.22 ug/L
RT: 14.053 min Scan# 1872
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion:180 Resp: 73225

Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.6	114.8
145	33.7	25.5	38.3

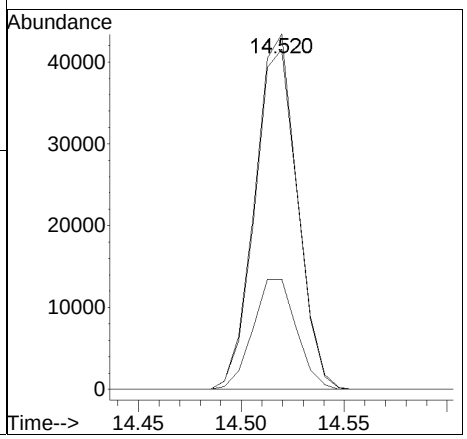




#115
1,2,3-Trichlorobenzene
Concen: 9.24 ug/L
RT: 14.520 min Scan# 1939
Delta R.T. -0.007 min
Lab File: V22241218A03.D
Acq: 18 Dec 2024 08:18 am

Tgt Ion:180 Resp: 62233

Ion	Ratio	Lower	Upper
180	100		
182	96.3	76.0	114.0
145	31.9	23.8	35.8



Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A27.D
Acq On : 18 Dec 2024 06:08 pm
Operator : VOA122:MJV
Sample : WG2010821-6,31,10,10,,A1
Misc : WG2010821,ICAL21691
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 19 07:10:17 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.944	96	338815	10.000	ug/L	0.00
Standard Area 1 = 488520			Recovery = 69.36%			
62) Chlorobenzene-d5	9.484	117	282651	10.000	ug/L	0.00
Standard Area 1 = 400401			Recovery = 70.59%			
83) 1,4-Dichlorobenzene-d4	12.202	152	155757	10.000	ug/L	0.00
Standard Area 1 = 207680			Recovery = 75.00%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.138	113	123317	10.664	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.64%			
46) 1,2-Dichloroethane-d4	5.649	65	70910	9.923	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.23%			
63) Toluene-d8	7.640	98	342294	9.605	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.05%			
87) 4-Bromofluorobenzene	10.985	95	120524	9.478	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.78%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.612	85	46685	6.672	ug/L	98
3) Chloromethane	1.796	50	58566	9.780	ug/L	97
4) Vinyl chloride	1.868	62	57921	7.253	ug/L	99
5) Bromomethane	2.176	94	13322	2.309	ug/L	97
6) Chloroethane	2.294	64	32895	6.011	ug/L	99
7) Trichlorofluoromethane	2.431	101	87850	9.613	ug/L	99
10) 1,1-Dichloroethene	2.910	96	48545	10.068	ug/L	95
11) Carbon disulfide	2.942	76	143605	9.798	ug/L	99
12) Freon-113	2.956	101	47352	9.339	ug/L	99
15) Methylene chloride	3.454	84	55677	9.827	ug/L	79
17) Acetone	3.493	43	8298	10.171	ug/L	90
18) trans-1,2-Dichloroethene	3.604	96	52916	9.998	ug/L	98
19) Methyl acetate	3.611	43	15764	7.951	ug/L #	91
21) Methyl tert-butyl ether	3.703	73	74494	8.024	ug/L #	82
25) 1,1-Dichloroethane	4.181	63	92610	9.664	ug/L	97
30) cis-1,2-Dichloroethene	4.699	96	58157	9.928	ug/L	95
32) Bromochloromethane	4.889	128	29807	10.123	ug/L	89
33) Cyclohexane	4.902	56	77268	8.467	ug/L	87
34) Chloroform	4.961	83	92326	9.635	ug/L	96
36) Carbon tetrachloride	5.099	117	79346	10.238	ug/L	99

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A27.D
Acq On : 18 Dec 2024 06:08 pm
Operator : VOA122:MJV
Sample : WG2010821-6,31,10,10,,A1
Misc : WG2010821,ICAL21691
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 19 07:10:17 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) 1,1,1-Trichloroethane	5.164	97	86630	9.917	ug/L		98
41) 2-Butanone	5.243	43	13262	11.443	ug/L	#	46
44) Benzene	5.525	78	187291	8.984	ug/L		95
47) 1,2-Dichloroethane	5.728	62	46716	9.225	ug/L		95
50) Methyl cyclohexane	6.121	83	52778	6.908	ug/L		84
51) Trichloroethene	6.121	95	43199	8.905	ug/L		94
54) 1,2-Dichloropropane	6.660	63	37491	8.948	ug/L		98
57) Bromodichloromethane	6.737	83	51490	8.848	ug/L		99
61) cis-1,3-Dichloropropene	7.425	75	47026	7.761	ug/L	#	86
64) Toluene	7.696	92	106137	9.053	ug/L		100
65) 4-Methyl-2-pentanone	8.127	58	5121	6.349	ug/L	#	62
66) Tetrachloroethene	8.148	166	50188	9.340	ug/L		96
68) trans-1,3-Dichloropropene	8.175	75	39163	7.316	ug/L		87
71) 1,1,2-Trichloroethane	8.356	83	22813	8.339	ug/L		98
72) Chlorodibromomethane	8.572	129	37898	8.413	ug/L		99
74) 1,2-Dibromoethane	8.846	107	27839	8.273	ug/L		98
76) 2-Hexanone	9.140	43	9332	7.114	ug/L	#	82
77) Chlorobenzene	9.505	112	126916	9.373	ug/L	#	86
78) Ethylbenzene	9.547	91	204407	8.767	ug/L		99
80) p/m Xylene	9.736	106	162793	16.926	ug/L		96
81) o Xylene	10.276	106	151517	16.525	ug/L		98
82) Styrene	10.346	104	241222	16.364	ug/L		95
84) Bromoform	10.360	173	19080	7.549	ug/L		100
86) Isopropylbenzene	10.669	105	213432	8.857	ug/L		100
91) 1,1,2,2-Tetrachloroethane	11.230	83	30987	8.260	ug/L		98
104) 1,3-Dichlorobenzene	12.125	146	106691	9.300	ug/L		99
105) 1,4-Dichlorobenzene	12.216	146	103131	8.997	ug/L		98
108) 1,2-Dichlorobenzene	12.640	146	94696	9.252	ug/L		98
110) 1,2-Dibromo-3-chloropr...	13.420	155	4754	8.132	ug/L		95
113) 1,2,4-Trichlorobenzene	14.060	180	51268	8.572	ug/L		99
115) 1,2,3-Trichlorobenzene	14.520	180	45184	8.900	ug/L		98

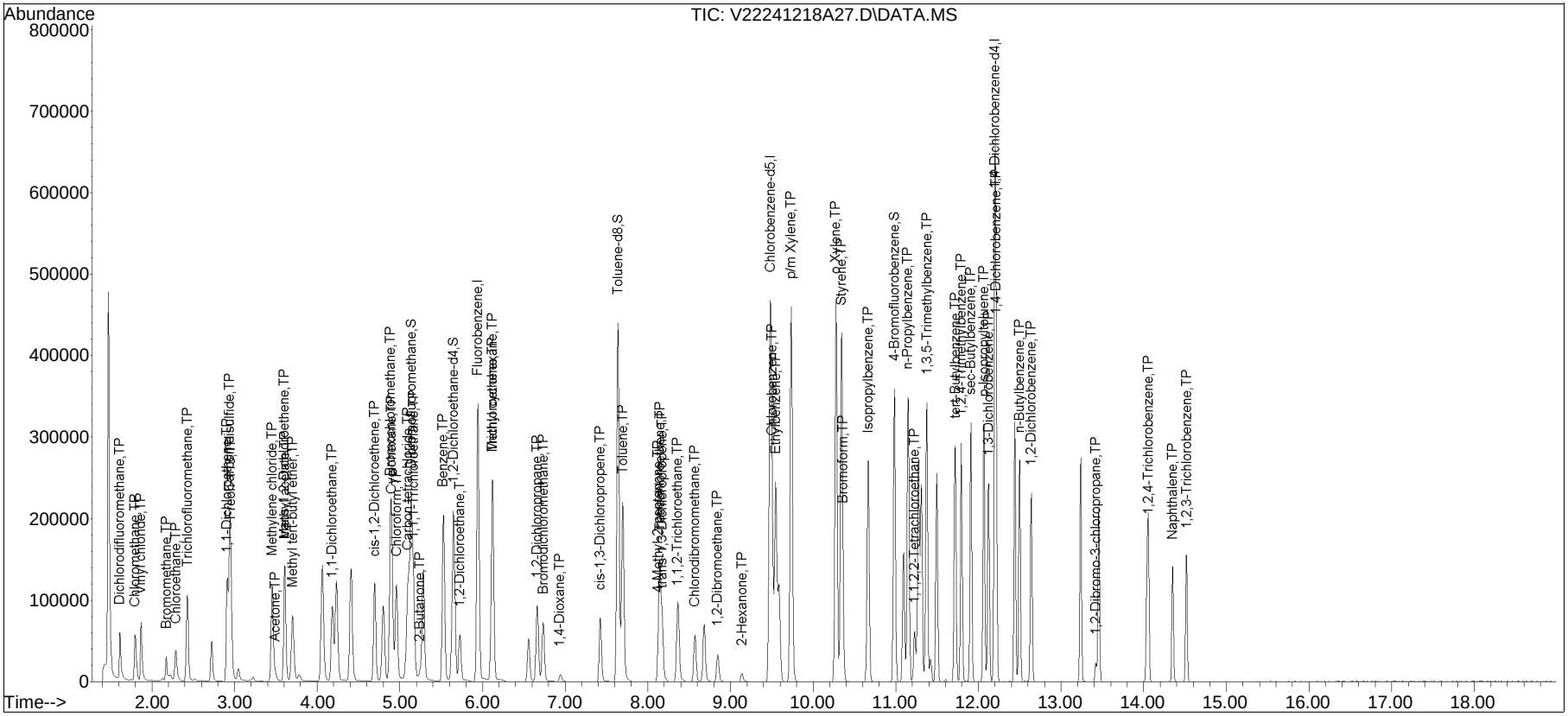
(#) = qualifier out of range (m) = manual integration (+) = signals summed

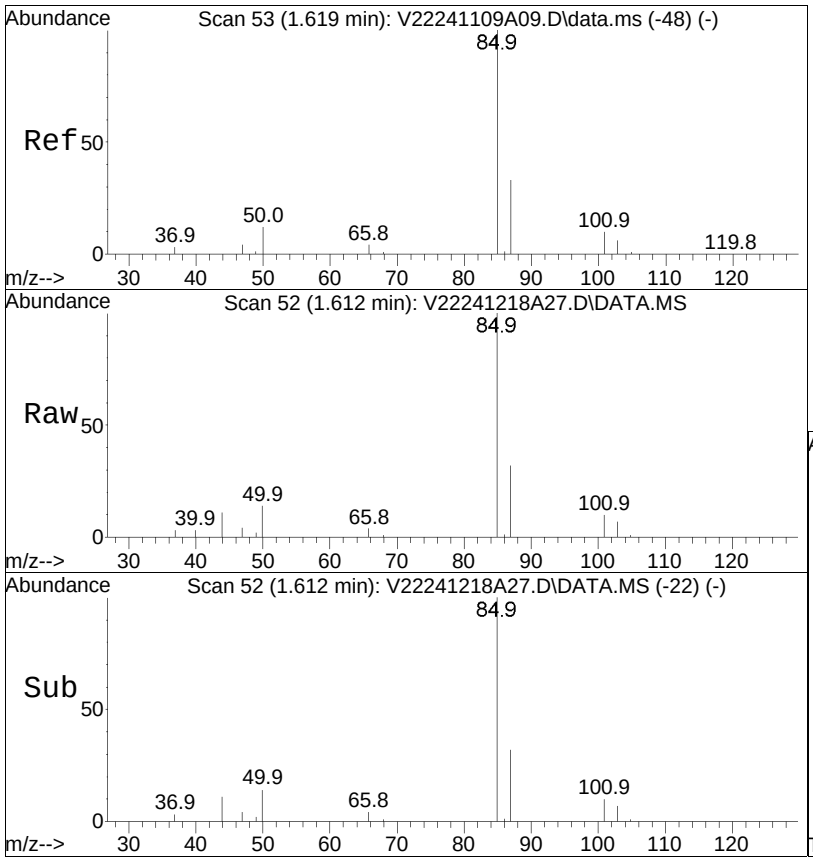
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A27.D
Acq On : 18 Dec 2024 06:08 pm
Operator : VOA122:MJV
Sample : WG2010821-6,31,10,10,,A1
Misc : WG2010821,ICAL21691
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 19 07:10:17 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS1218A02.D•

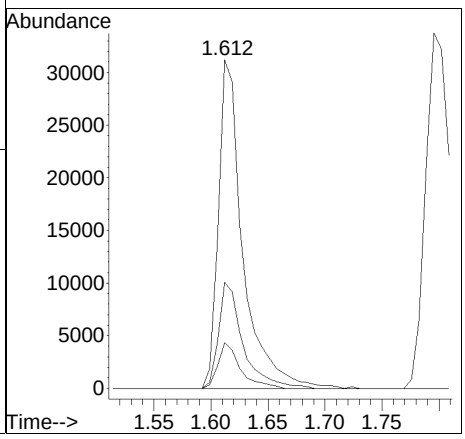


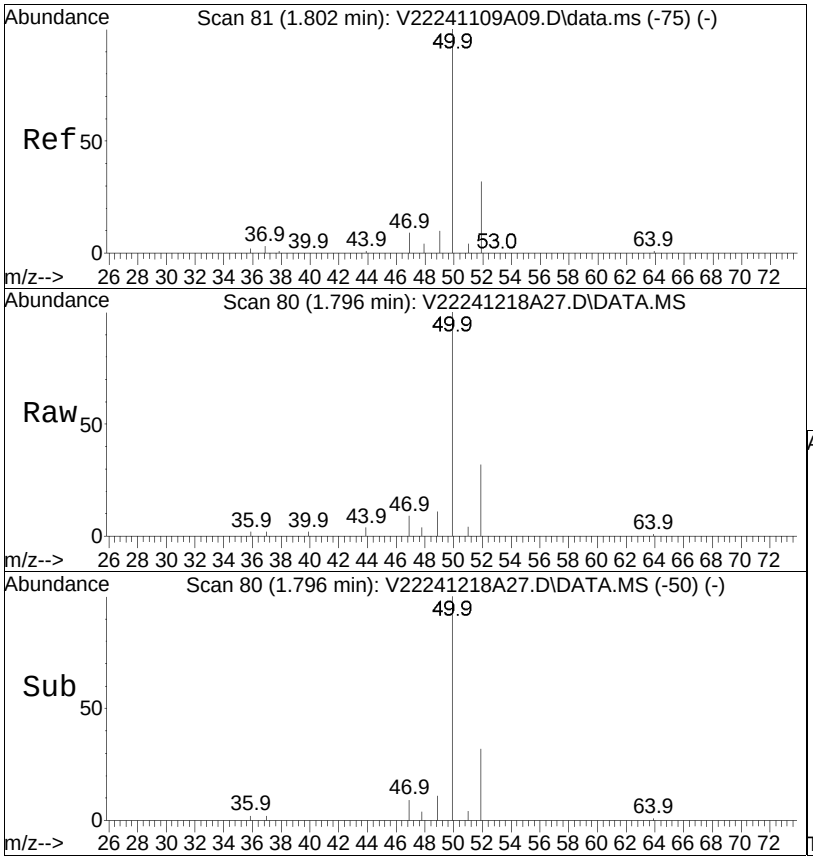


#2
Dichlorodifluoromethane
Concen: 6.67 ug/L
RT: 1.612 min Scan# 52
Delta R.T. -0.006 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion: 85 Resp: 46685

Ion	Ratio	Lower	Upper
85	100		
87	32.0	20.7	42.9
50	12.7	6.8	14.2

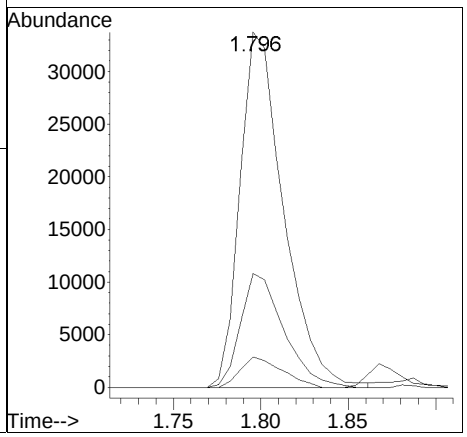


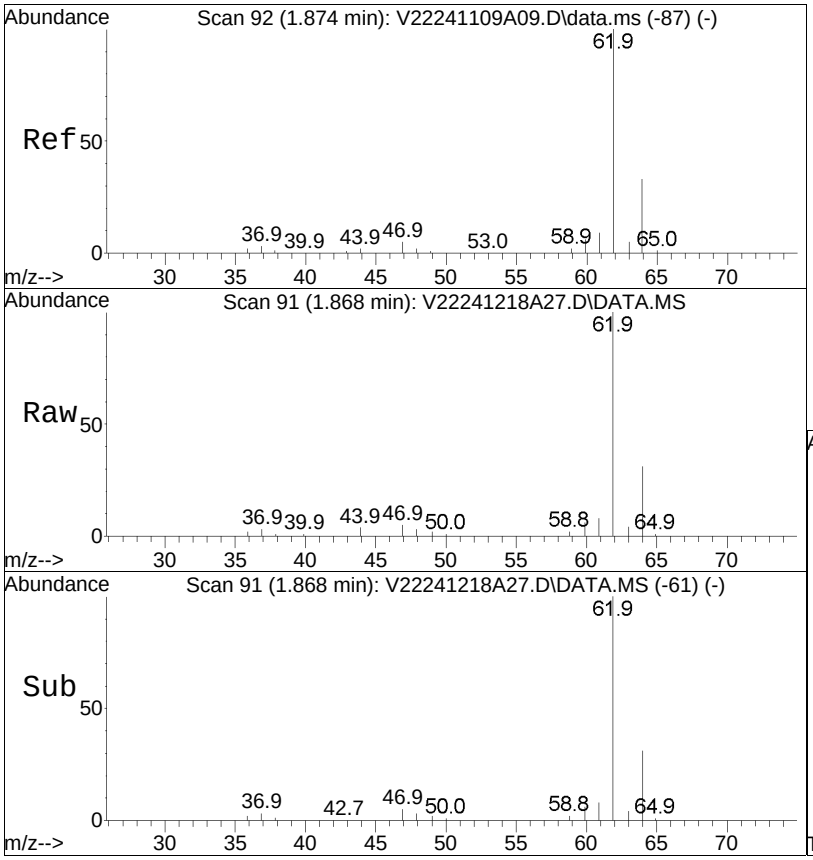


#3
Chloromethane
Concen: 9.78 ug/L
RT: 1.796 min Scan# 80
Delta R.T. -0.006 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion: 50 Resp: 58566

Ion	Ratio	Lower	Upper
50	100		
52	31.7	12.8	52.8
47	8.2	0.0	30.0

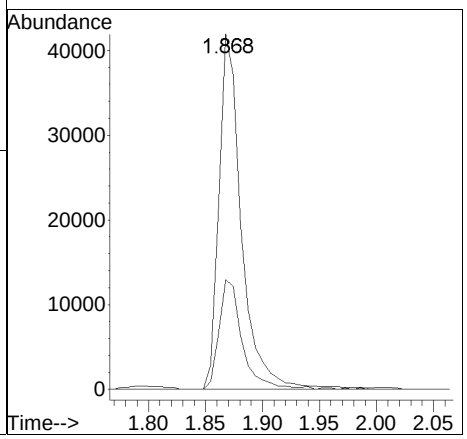


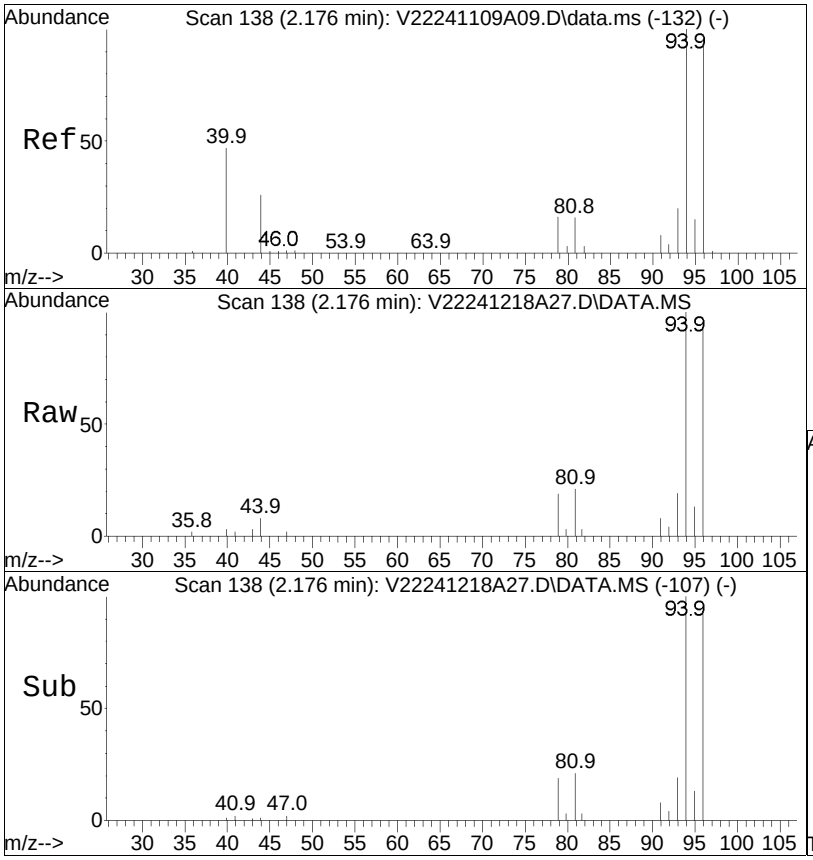


#4
Vinyl chloride
Concen: 7.25 ug/L
RT: 1.868 min Scan# 91
Delta R.T. -0.007 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion: 62 Resp: 57921

Ion	Ratio	Lower	Upper
62	100		
64	31.6	12.0	52.0

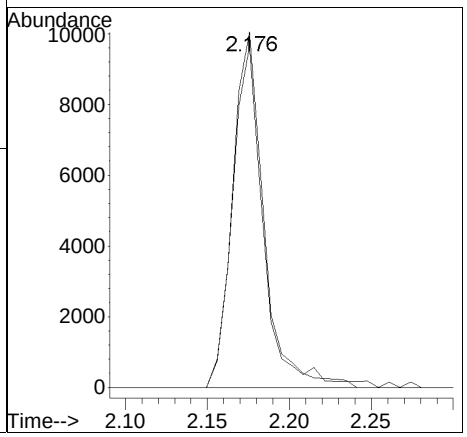


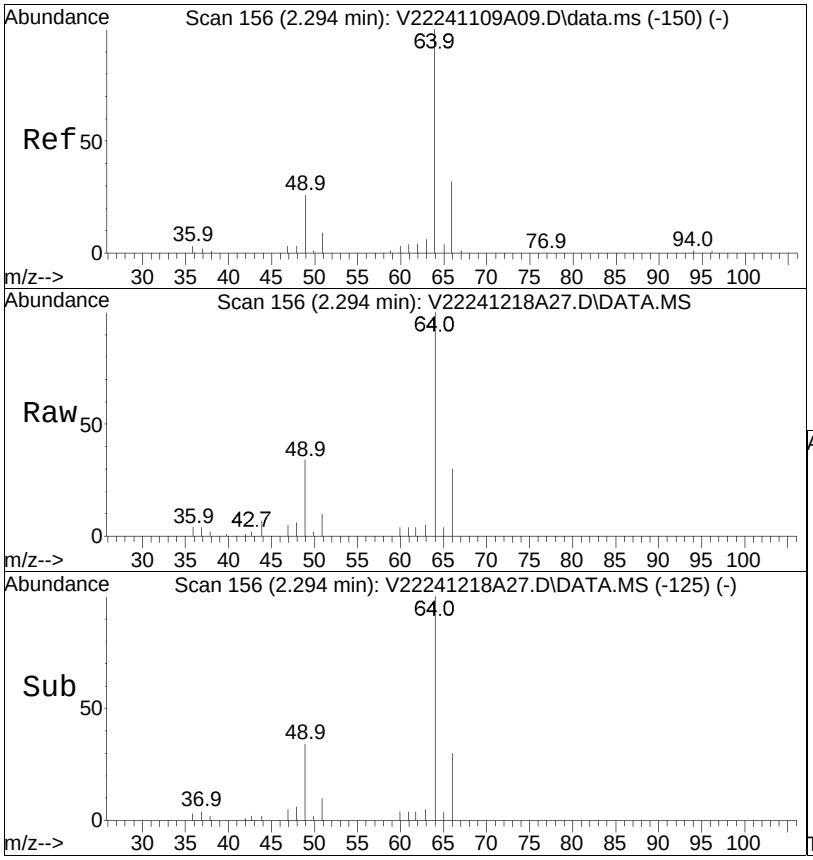


#5
Bromomethane
Concen: 2.31 ug/L
RT: 2.176 min Scan# 138
Delta R.T. 0.000 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion: 94 Resp: 13322

Ion	Ratio	Lower	Upper
94	100		
96	95.6	72.8	112.8

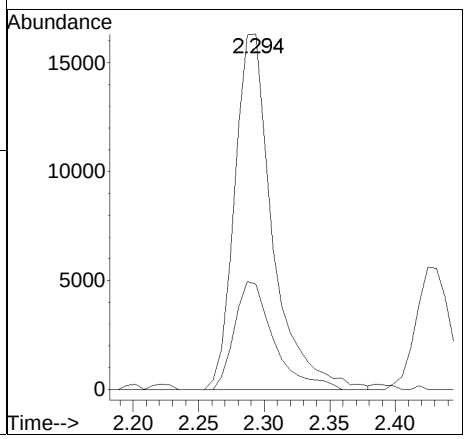


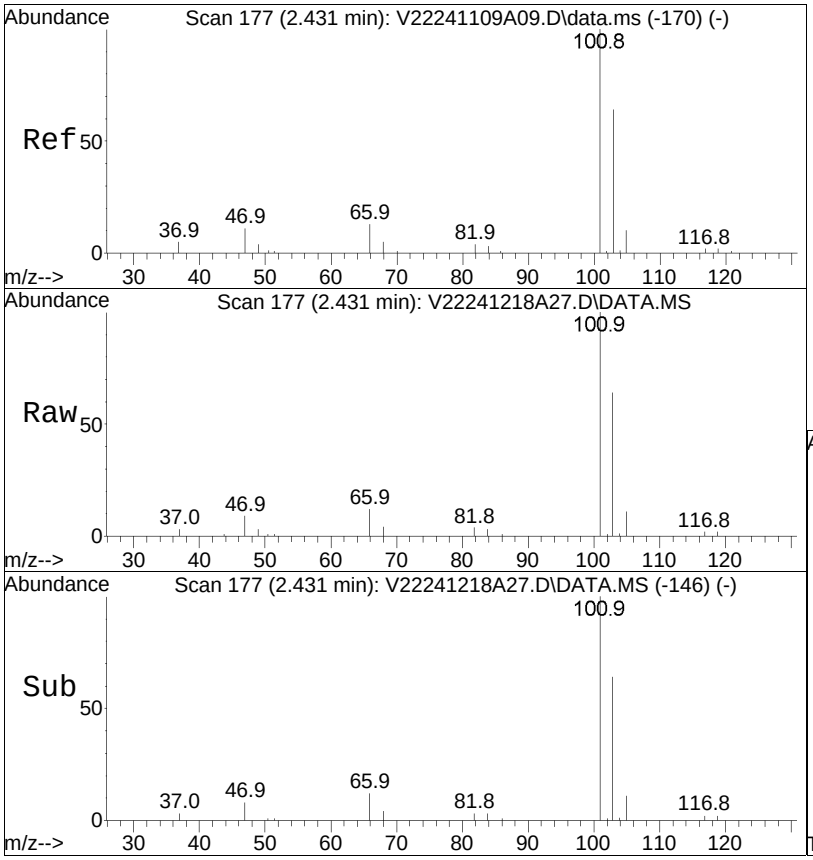


#6
Chloroethane
Concen: 6.01 ug/L
RT: 2.294 min Scan# 156
Delta R.T. 0.000 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion: 64 Resp: 32895

Ion	Ratio	Lower	Upper
64	100		
66	31.4	12.2	52.2

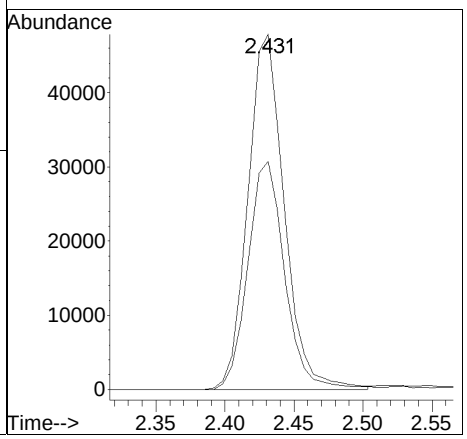


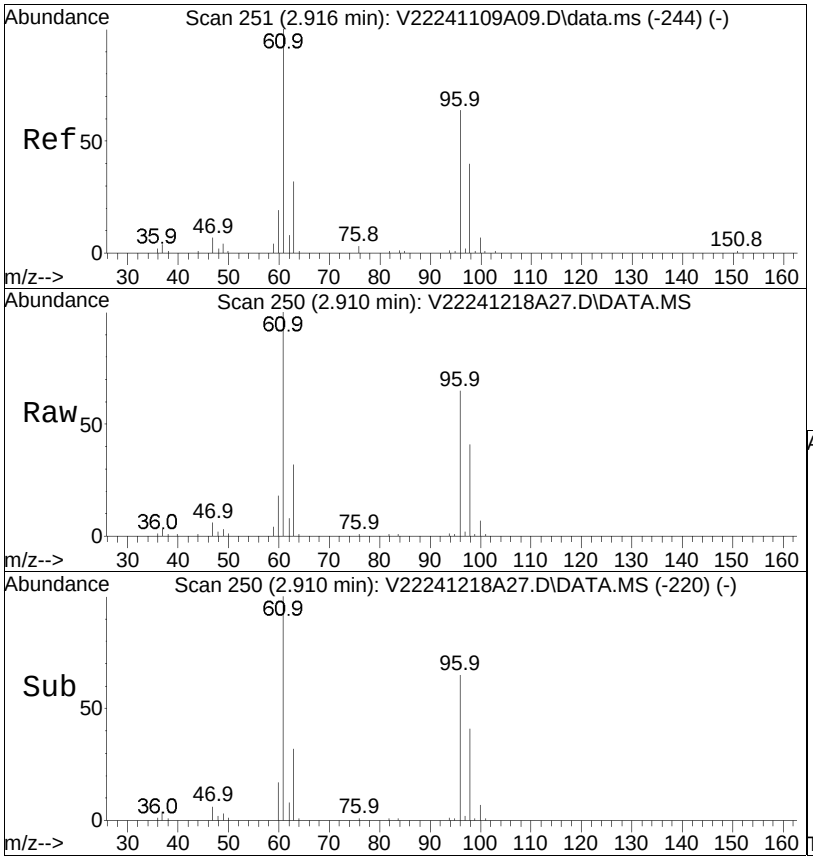


#7
Trichlorofluoromethane
Concen: 9.61 ug/L
RT: 2.431 min Scan# 177
Delta R.T. 0.000 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion:101 Resp: 87850

Ion	Ratio	Lower	Upper
101	100		
103	64.9	51.6	77.4

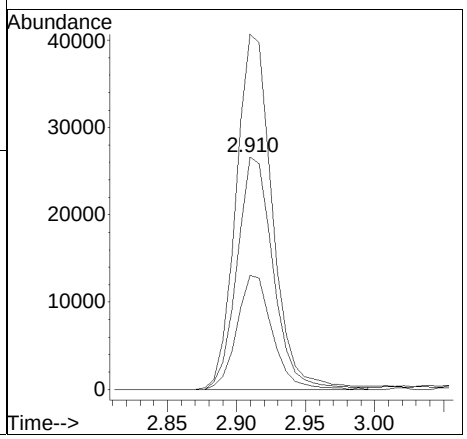


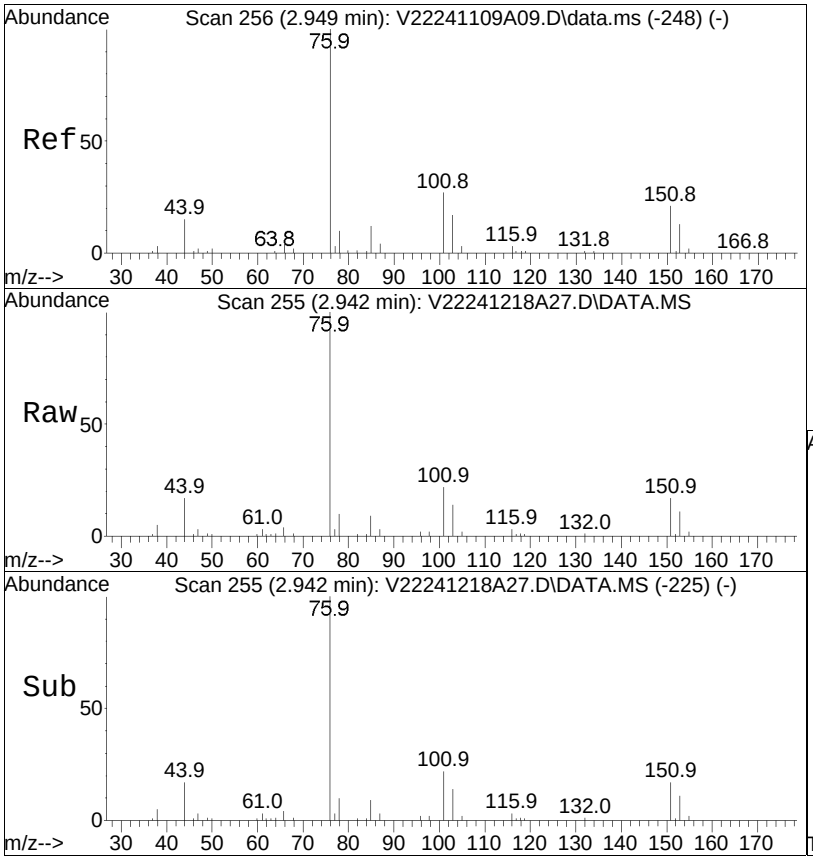


#10
1,1-Dichloroethene
Concen: 10.07 ug/L
RT: 2.910 min Scan# 250
Delta R.T. -0.006 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion: 96 Resp: 48545

Ion	Ratio	Lower	Upper
96	100		
61	153.6	117.0	175.4
63	48.1	37.8	56.6

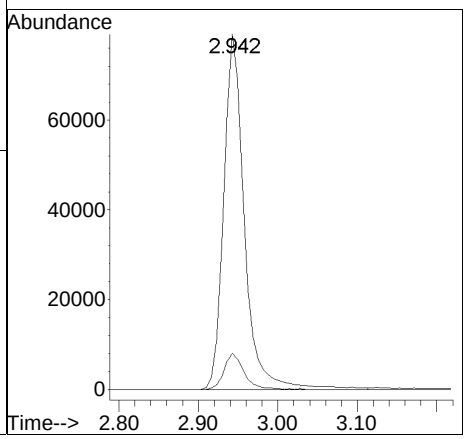


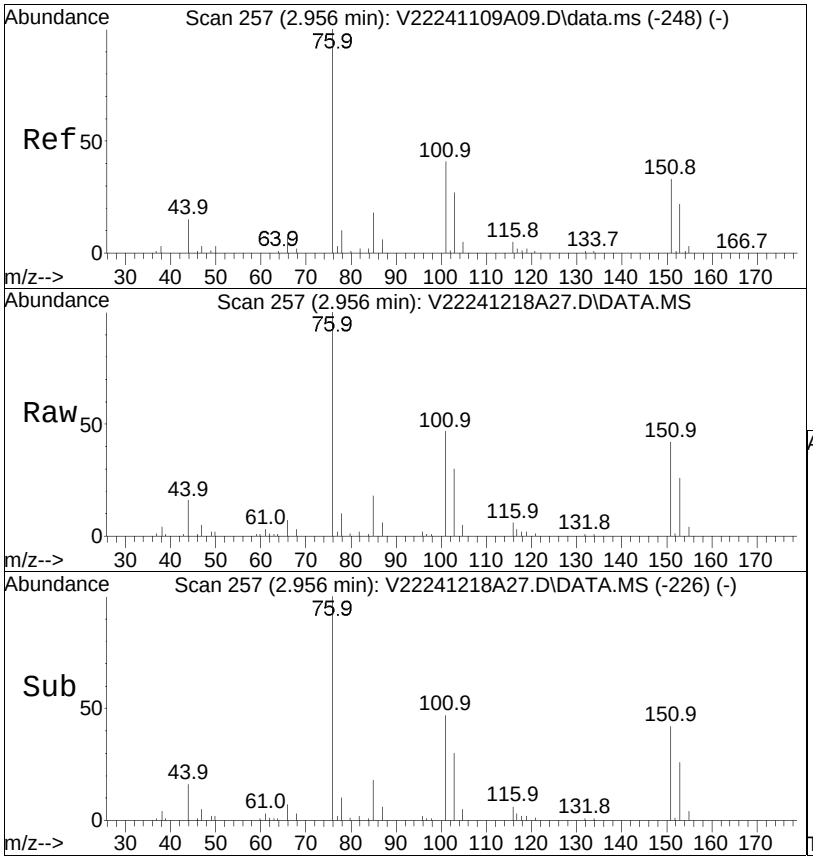


#11
Carbon disulfide
Concen: 9.80 ug/L
RT: 2.942 min Scan# 255
Delta R.T. -0.006 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion: 76 Resp: 143605

Ion	Ratio	Lower	Upper
76	100		
78	9.6	6.4	13.4

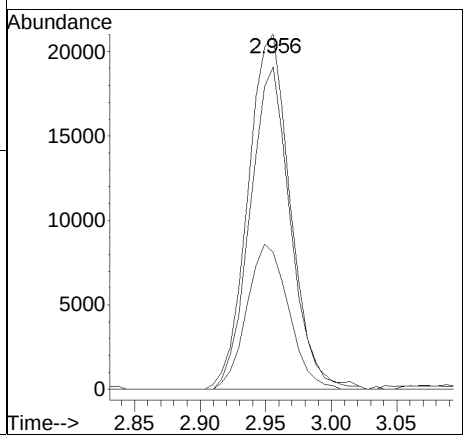


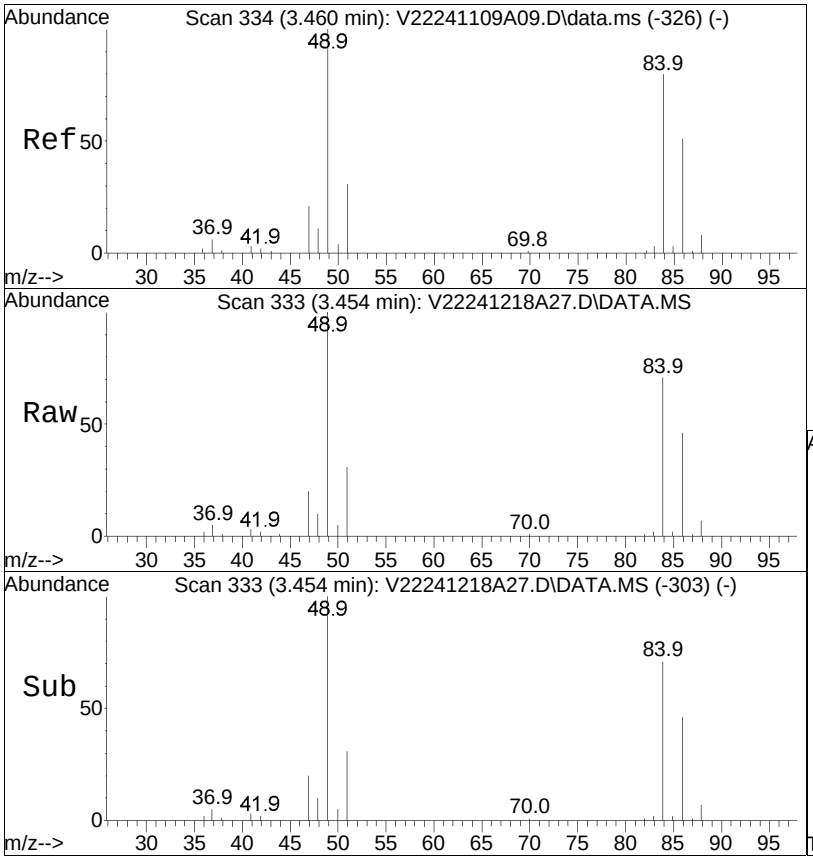


#12
Freon-113
Concen: 9.34 ug/L
RT: 2.956 min Scan# 257
Delta R.T. 0.000 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion:101 Resp: 47352

Ion	Ratio	Lower	Upper
101	100		
151	86.6	68.5	102.7
85	40.3	33.1	49.7

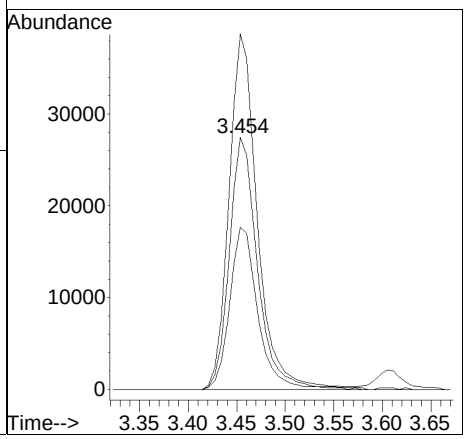


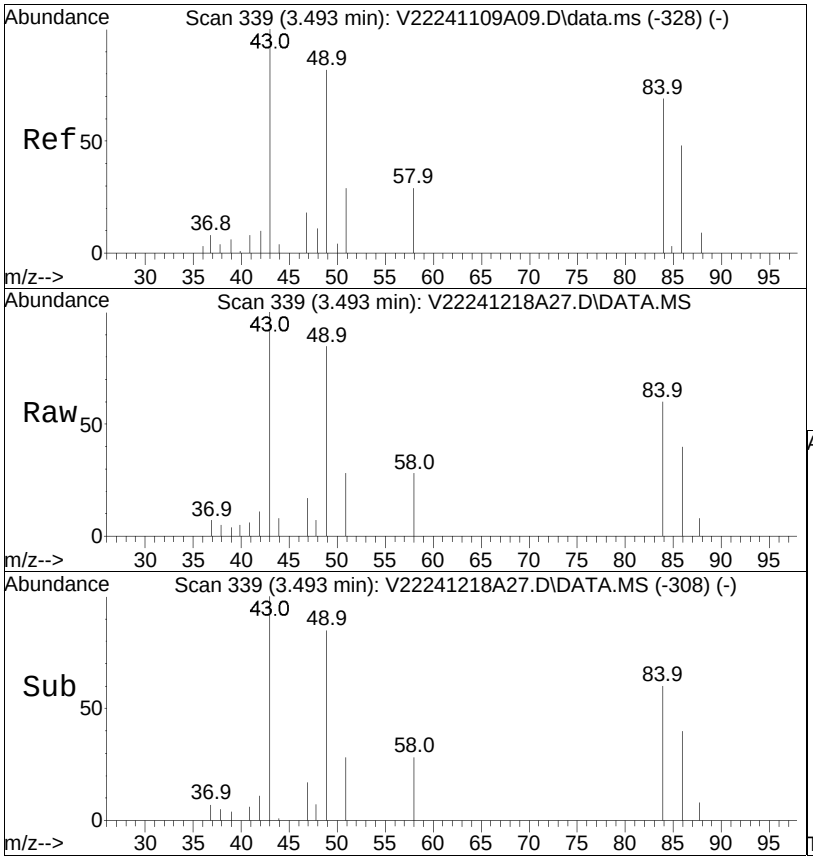


#15
Methylene chloride
Concen: 9.83 ug/L
RT: 3.454 min Scan# 333
Delta R.T. -0.006 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion: 84 Resp: 55677

Ion	Ratio	Lower	Upper
84	100		
86	63.9	41.5	86.3
49	141.0	68.8	143.0

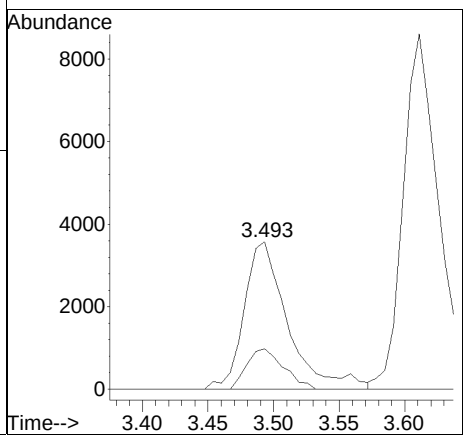


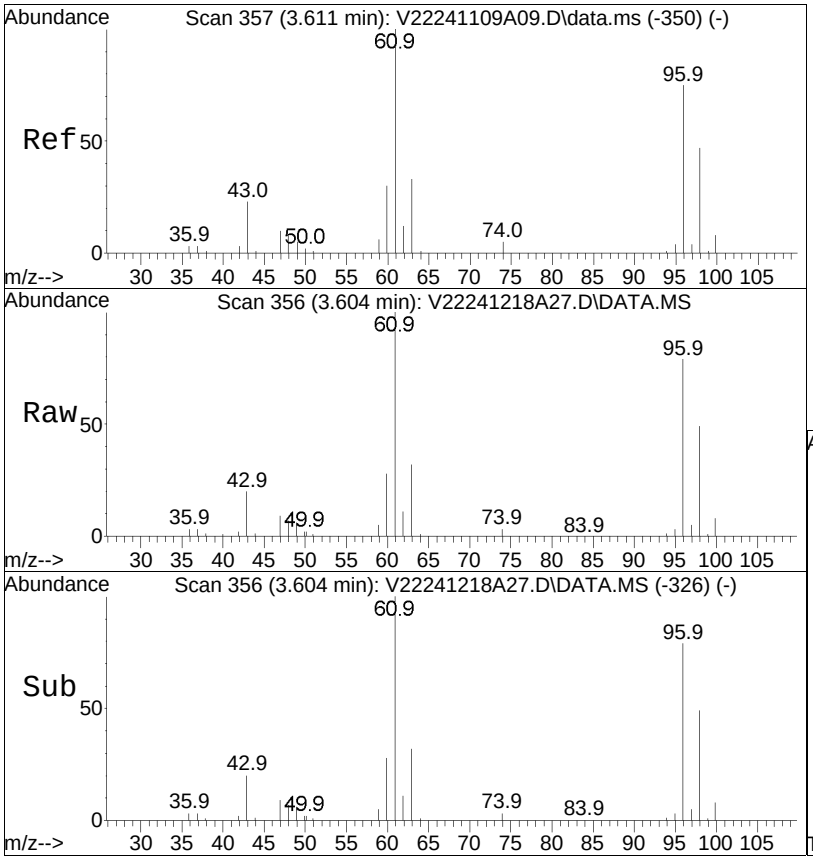


#17
Acetone
Concen: 10.17 ug/L
RT: 3.493 min Scan# 339
Delta R.T. 0.000 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion: 43 Resp: 8298

Ion	Ratio	Lower	Upper
43	100		
58	23.3	23.1	34.7

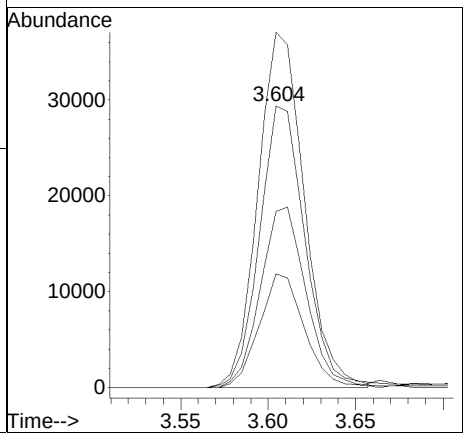


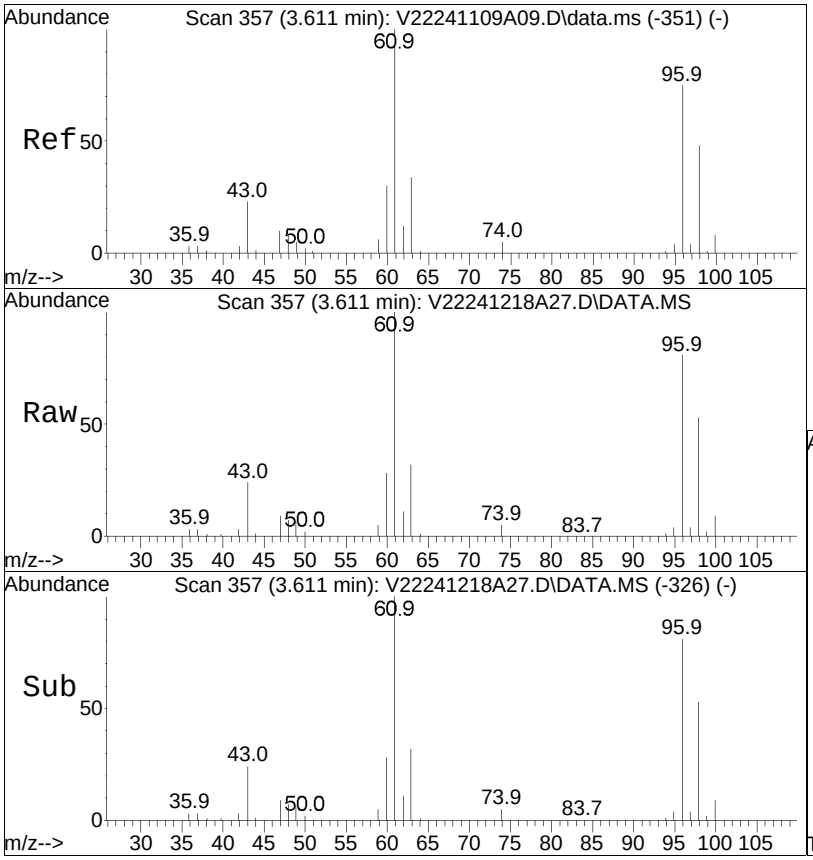


#18
trans-1,2-Dichloroethene
Concen: 10.00 ug/L
RT: 3.604 min Scan# 356
Delta R.T. -0.007 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion: 96 Resp: 52916

Ion	Ratio	Lower	Upper
96	100		
61	130.0	81.6	169.6
98	64.7	41.8	86.8
63	40.1	26.3	54.7

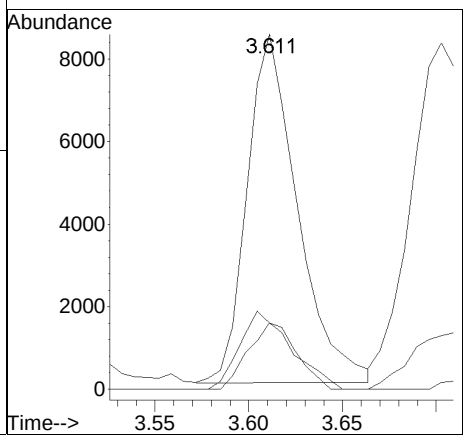


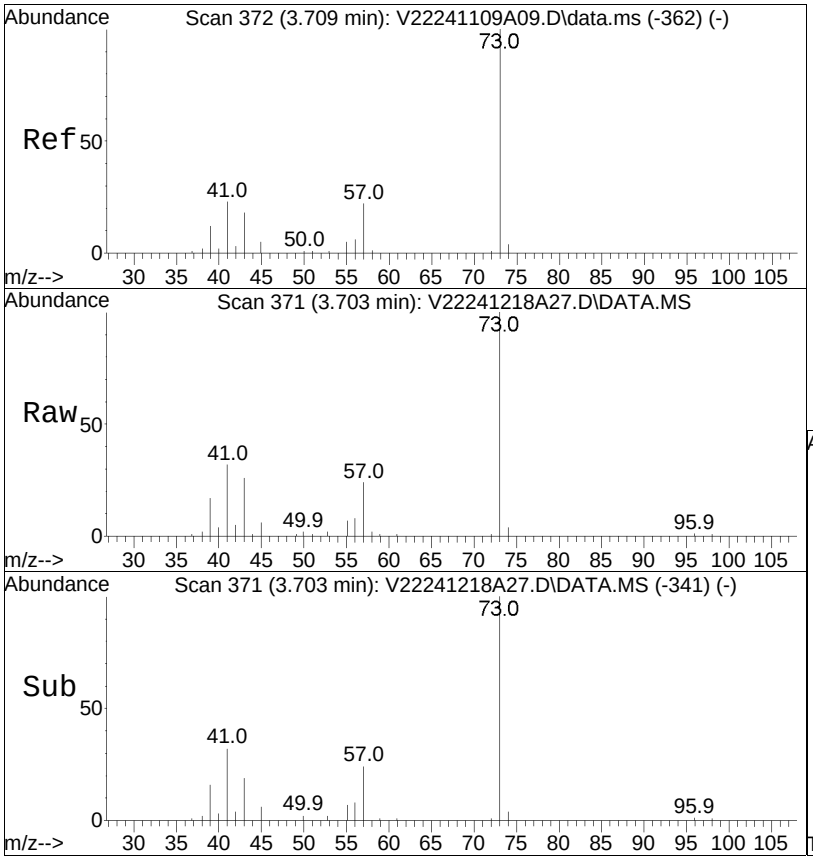


#19
Methyl acetate
Concen: 7.95 ug/L
RT: 3.611 min Scan# 357
Delta R.T. 0.000 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion: 43 Resp: 15764

Ion	Ratio	Lower	Upper
43	100		
74	18.7	21.8	32.6#
59	22.6	18.1	27.1

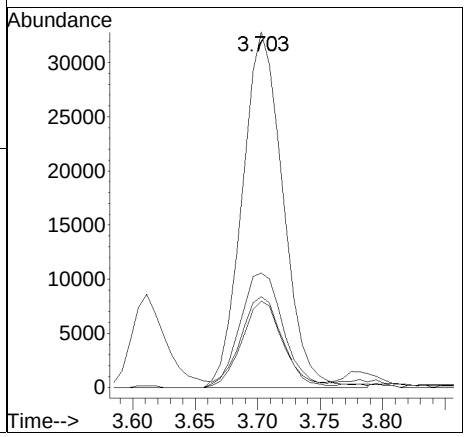


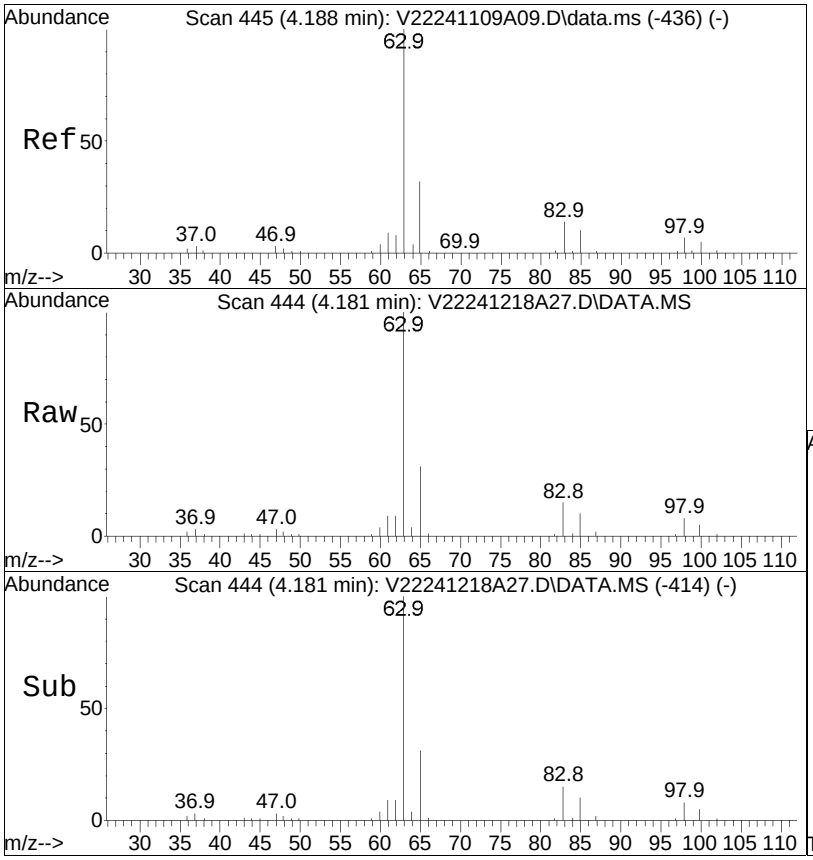


#21
Methyl tert-butyl ether
Concen: 8.02 ug/L
RT: 3.703 min Scan# 371
Delta R.T. -0.006 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion: 73 Resp: 74494

Ion	Ratio	Lower	Upper
73	100		
57	24.3	13.6	28.2
43	25.0	12.7	26.5
41	33.9	11.4	23.8#

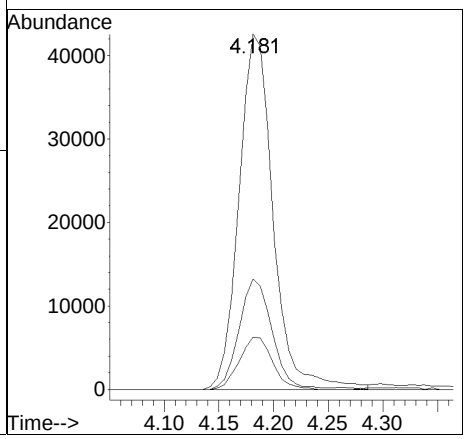


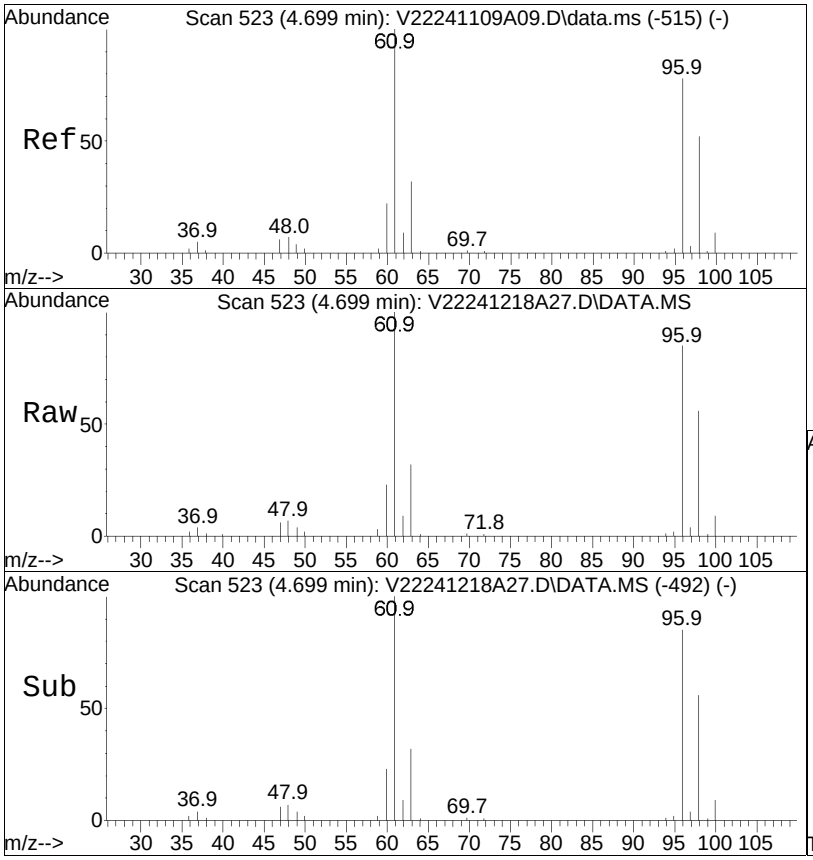


#25
1,1-Dichloroethane
Concen: 9.66 ug/L
RT: 4.181 min Scan# 444
Delta R.T. -0.006 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion: 63 Resp: 92610

Ion	Ratio	Lower	Upper
63	100		
65	29.8	11.9	51.9
83	14.2	0.0	34.2

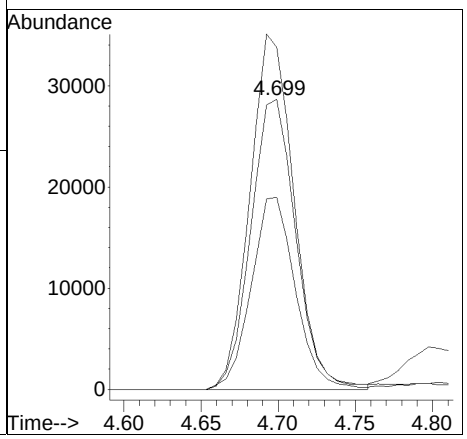


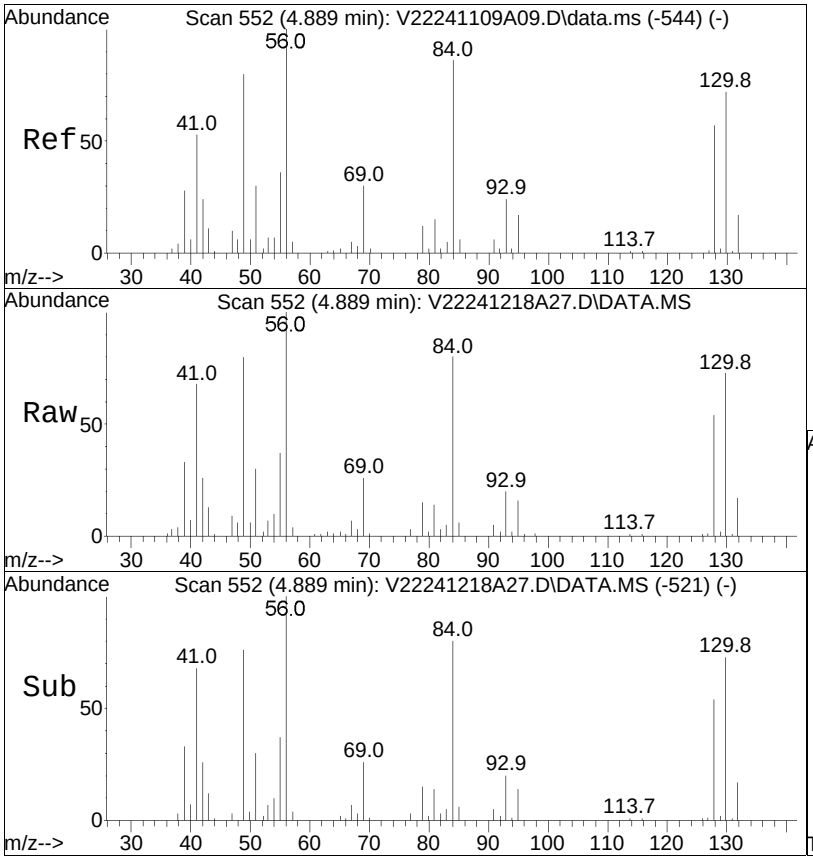


#30
cis-1,2-Dichloroethene
Concen: 9.93 ug/L
RT: 4.699 min Scan# 523
Delta R.T. 0.000 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion: 96 Resp: 58157

Ion	Ratio	Lower	Upper
96	100		
61	119.8	90.3	135.5
98	65.0	50.8	76.2

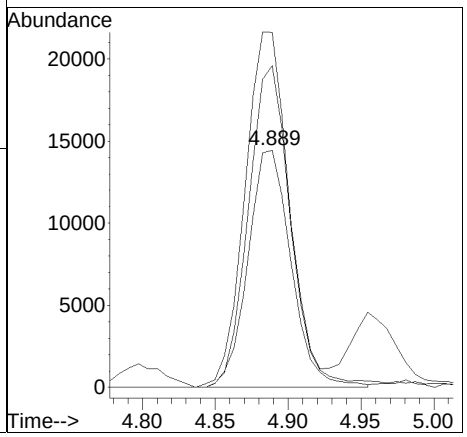


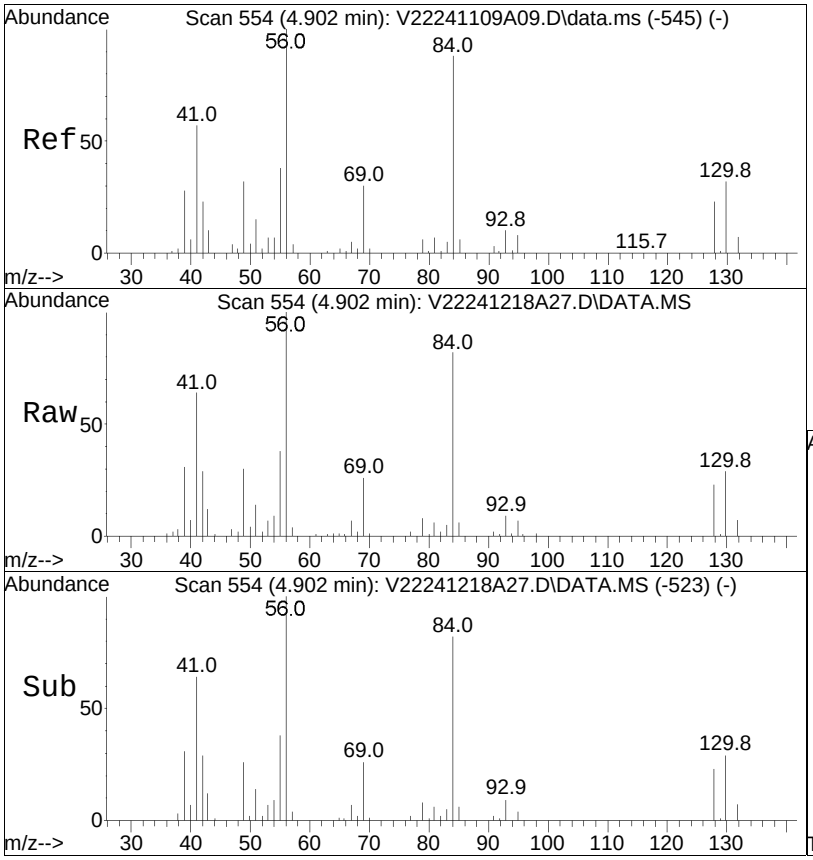


#32
Bromochloromethane
Concen: 10.12 ug/L
RT: 4.889 min Scan# 552
Delta R.T. 0.000 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion:128 Resp: 29807

Ion	Ratio	Lower	Upper
128	100		
49	153.2	104.4	156.6
130	133.7	103.9	155.9

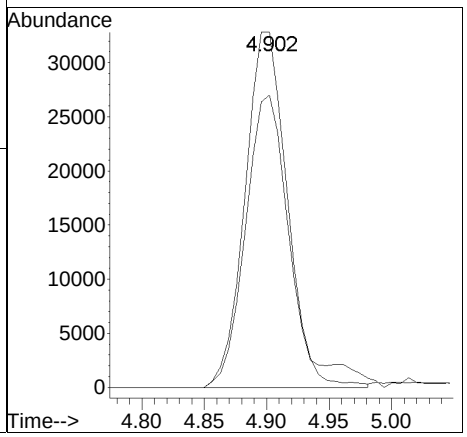


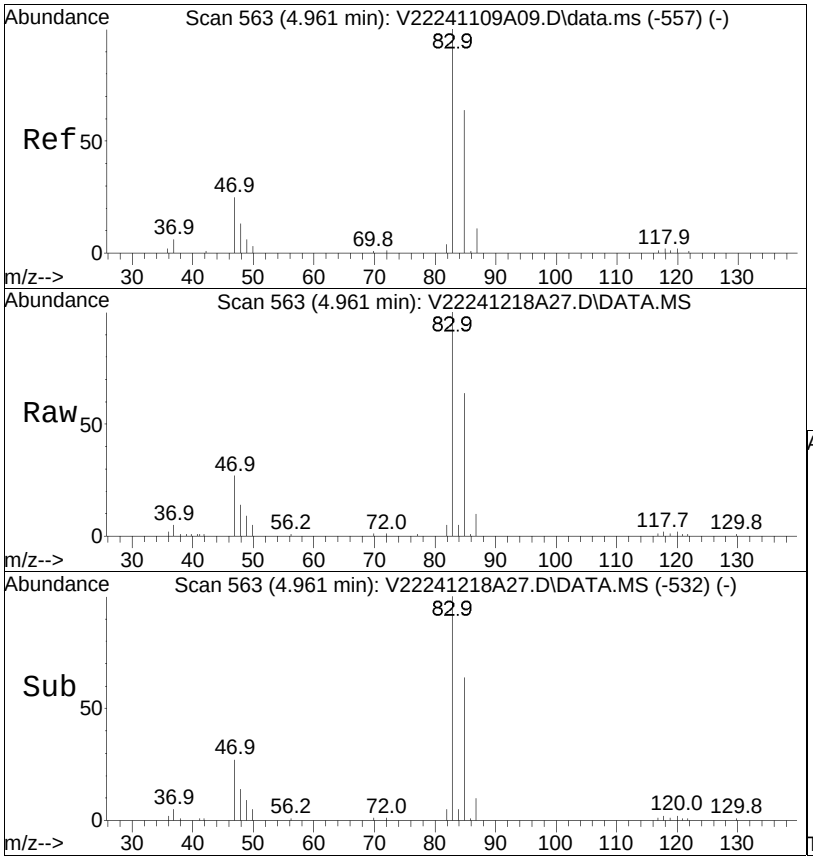


#33
Cyclohexane
Concen: 8.47 ug/L
RT: 4.902 min Scan# 554
Delta R.T. 0.000 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion: 56 Resp: 77268

Ion	Ratio	Lower	Upper
56	100		
84	88.1	66.0	137.2

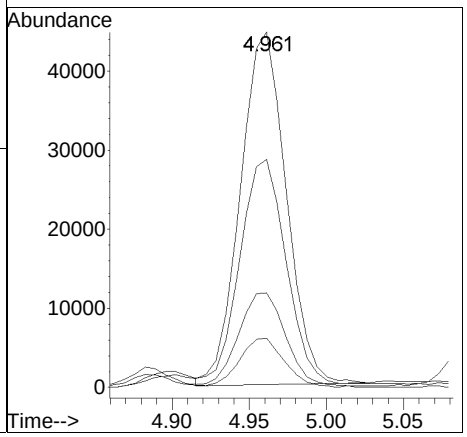


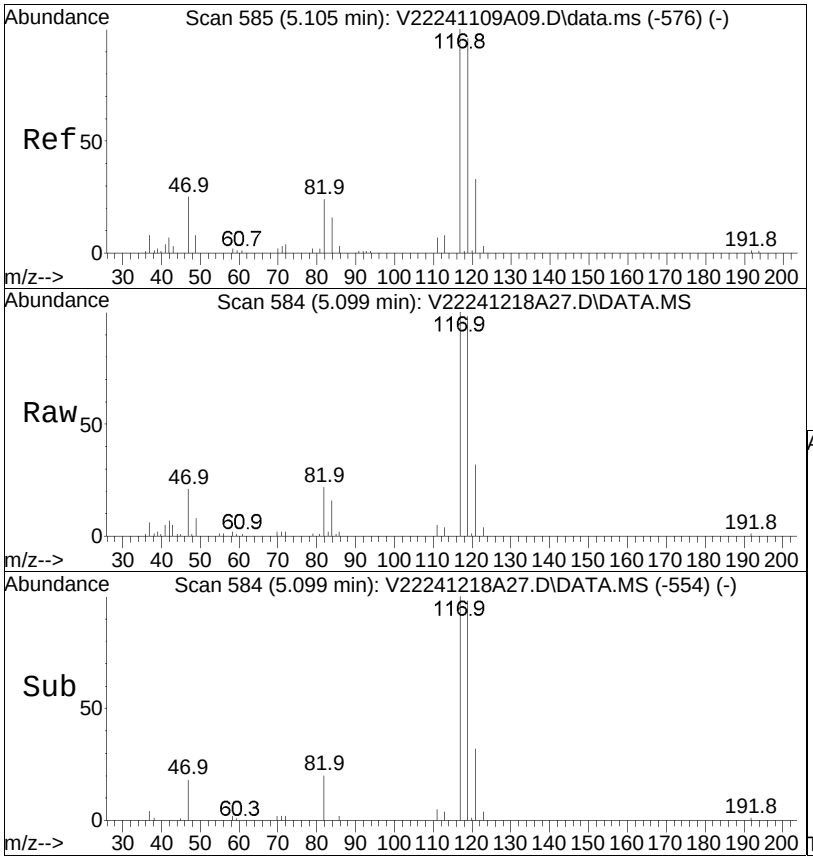


#34
Chloroform
Concen: 9.64 ug/L
RT: 4.961 min Scan# 563
Delta R.T. 0.000 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion: 83 Resp: 92326

Ion	Ratio	Lower	Upper
83	100		
85	64.7	42.4	88.2
47	26.9	14.0	29.0
48	13.8	6.9	14.3

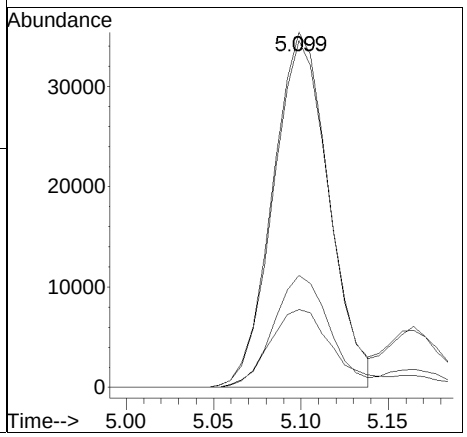


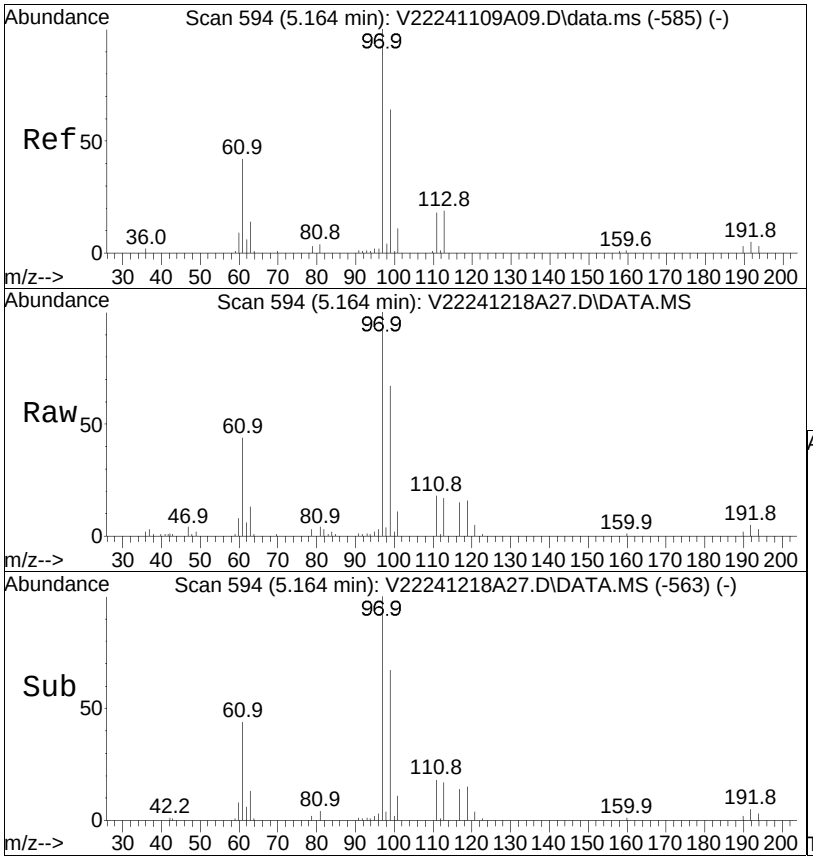


#36
Carbon tetrachloride
Concen: 10.24 ug/L
RT: 5.099 min Scan# 584
Delta R.T. -0.007 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion:117 Resp: 79346

Ion	Ratio	Lower	Upper
117	100		
119	96.9	62.1	129.1
121	31.2	20.3	42.3
82	25.3	15.4	32.0

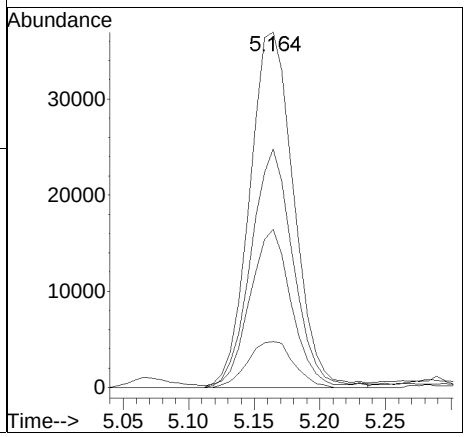


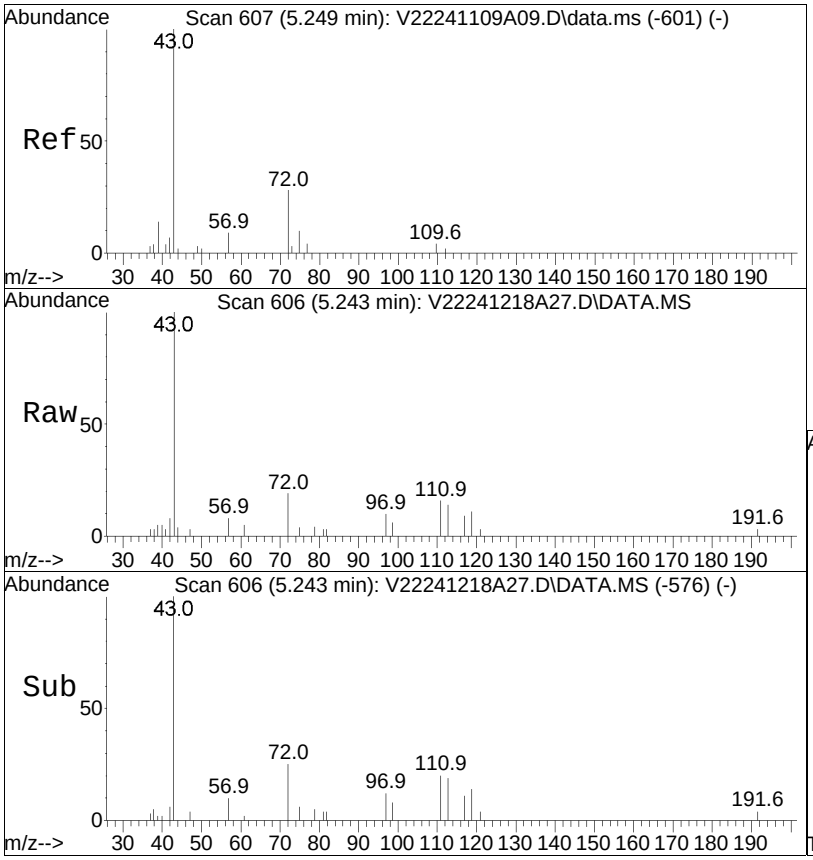


#39
1,1,1-Trichloroethane
Concen: 9.92 ug/L
RT: 5.164 min Scan# 594
Delta R.T. 0.000 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion: 97 Resp: 86630

Ion	Ratio	Lower	Upper
97	100		
99	64.6	42.4	88.0
61	41.8	26.0	54.0
63	13.4	8.3	17.3

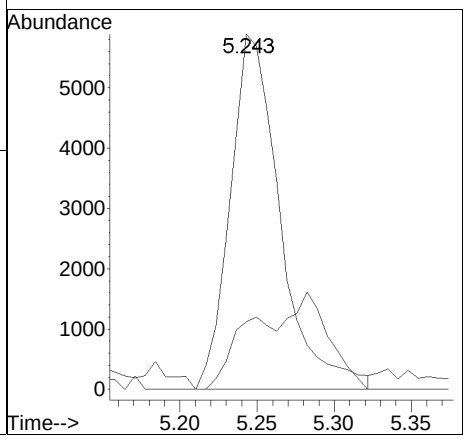


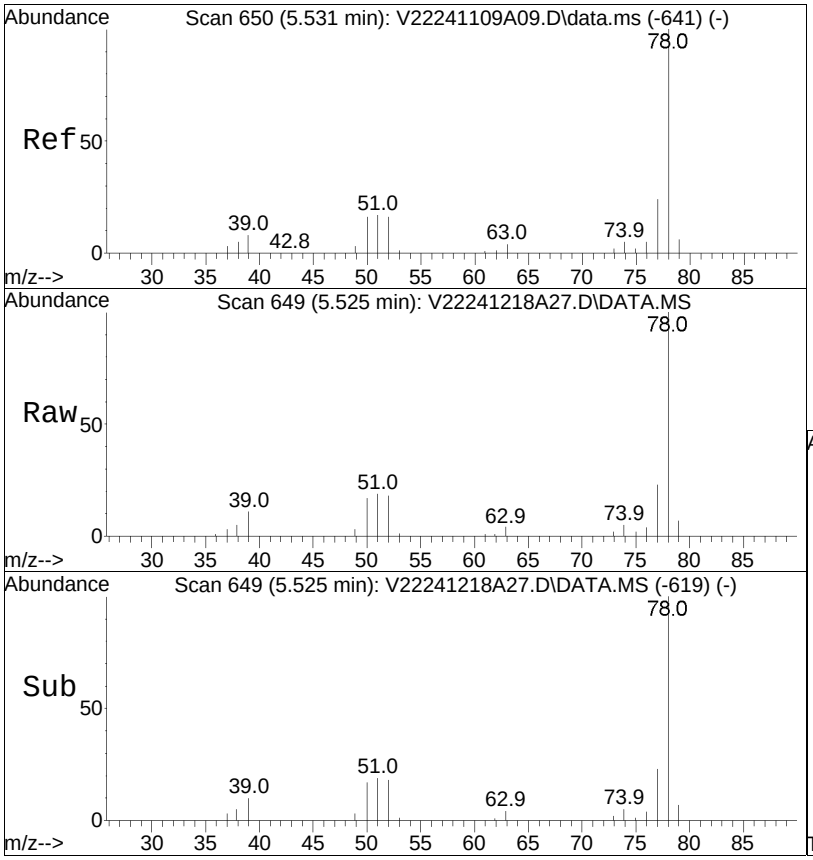


#41
2-Butanone
Concen: 11.44 ug/L
RT: 5.243 min Scan# 606
Delta R.T. -0.006 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion: 43 Resp: 13262

Ion	Ratio	Lower	Upper
43	100		
72	17.7	45.8	68.8#

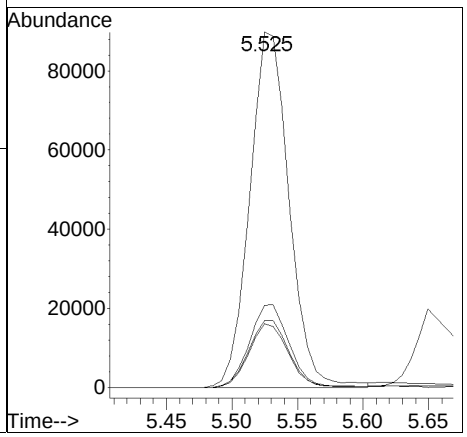


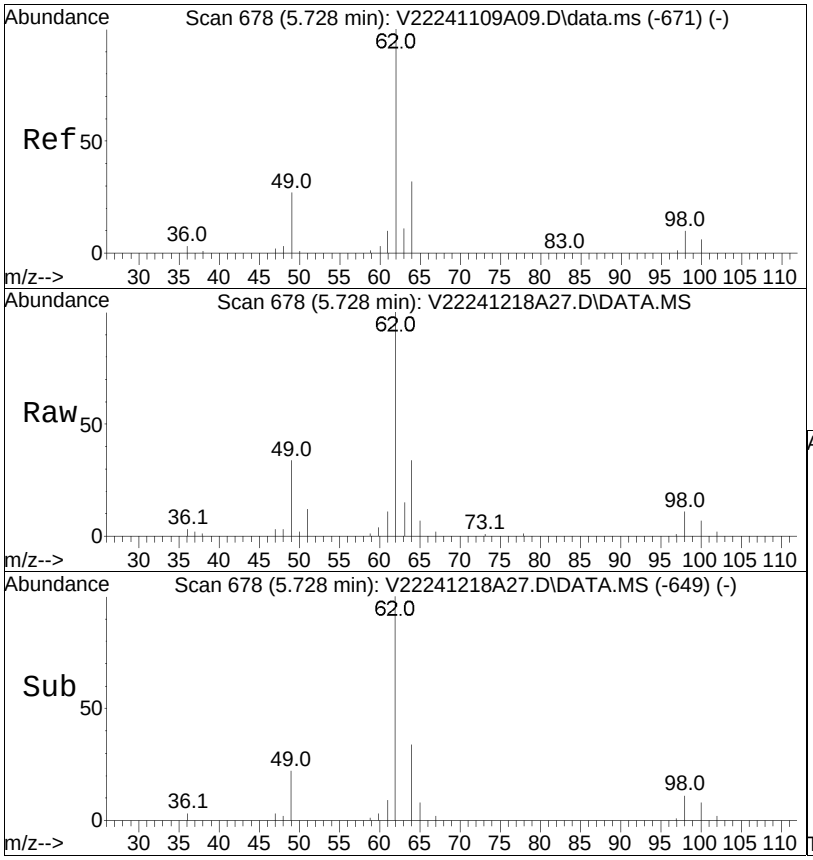


#44
Benzene
Concen: 8.98 ug/L
RT: 5.525 min Scan# 649
Delta R.T. -0.006 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion: 78 Resp: 187291

Ion	Ratio	Lower	Upper
78	100		
77	23.6	15.4	32.0
51	19.3	9.8	20.4
52	17.8	9.2	19.2

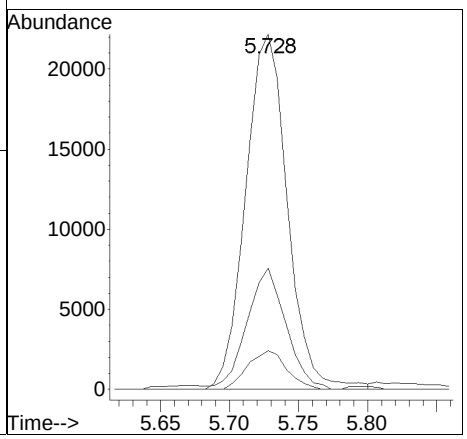


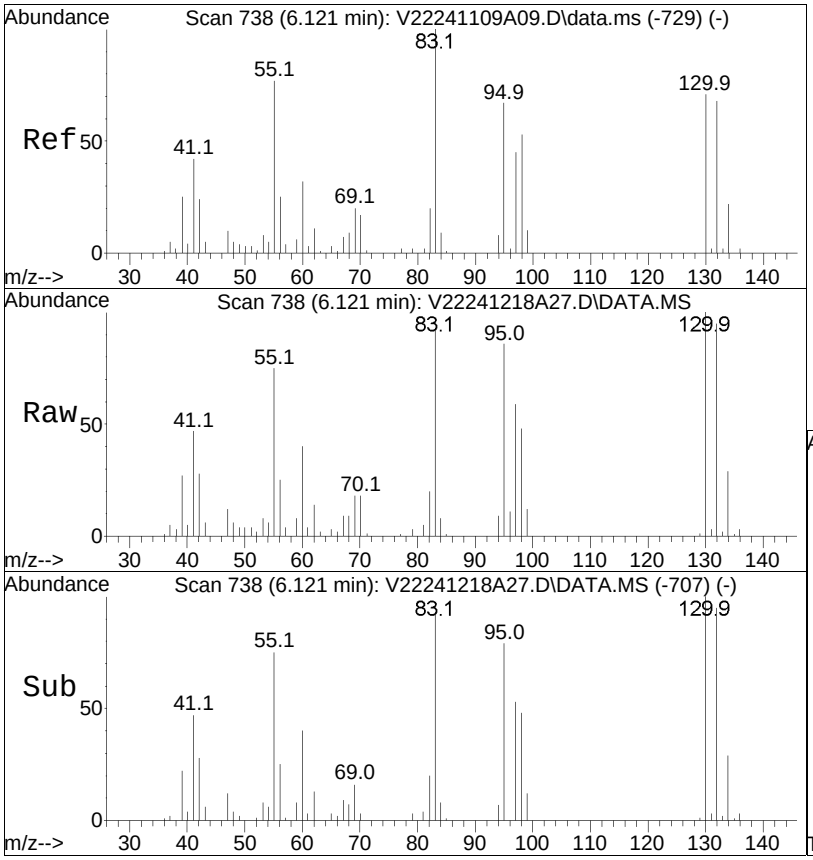


#47
1,2-Dichloroethane
Concen: 9.23 ug/L
RT: 5.728 min Scan# 678
Delta R.T. 0.000 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion: 62 Resp: 46716

Ion	Ratio	Lower	Upper
62	100		
64	35.8	12.3	52.3
98	10.2	0.0	30.3

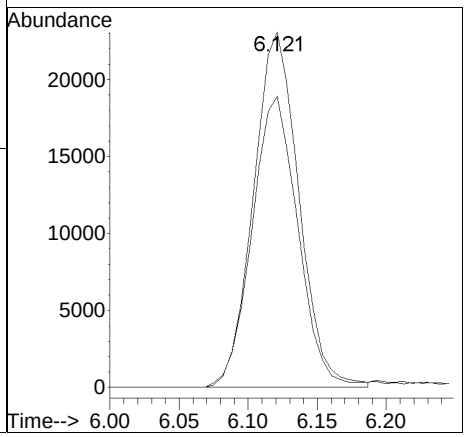


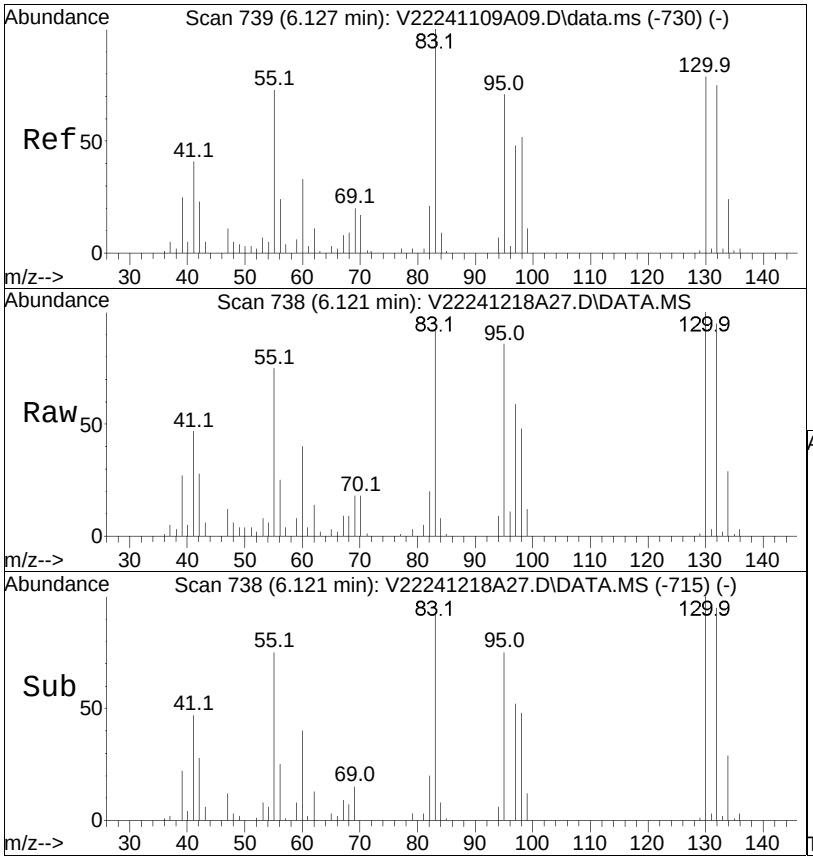


#50
Methyl cyclohexane
Concen: 6.91 ug/L
RT: 6.121 min Scan# 738
Delta R.T. 0.000 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion: 83 Resp: 52778

Ion	Ratio	Lower	Upper
83	100		
55	82.7	55.4	83.2

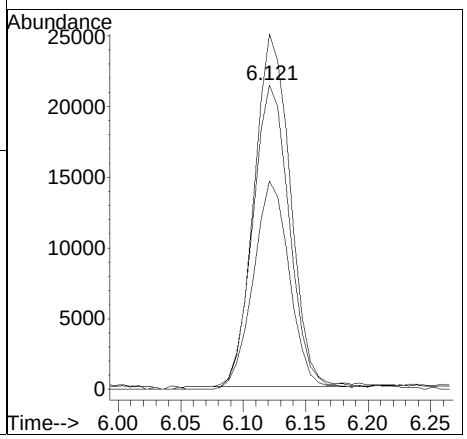


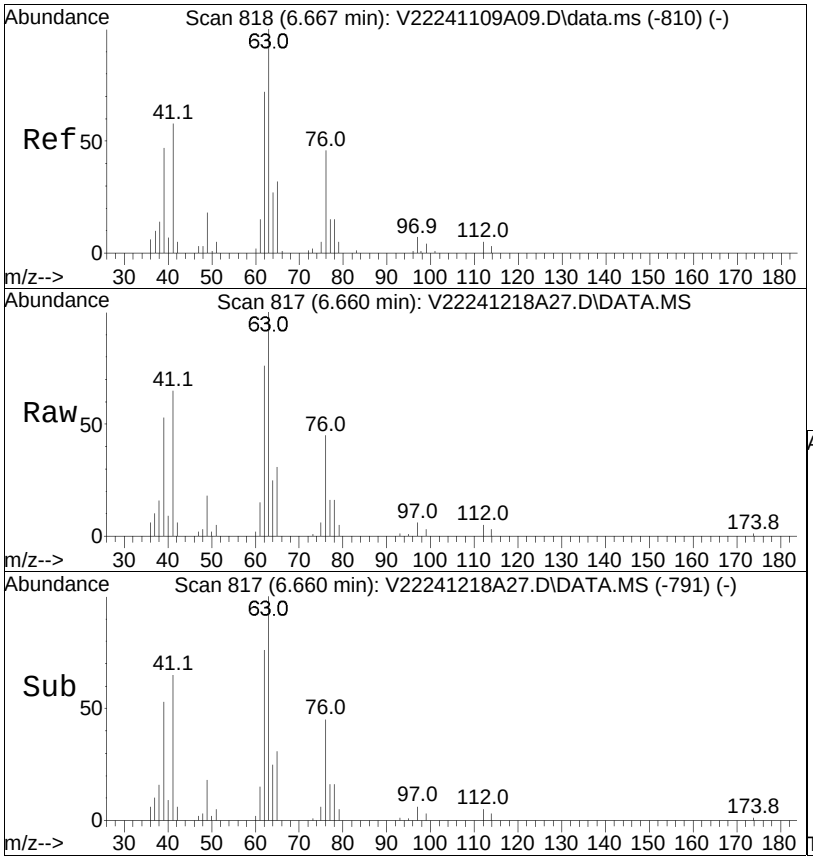


#51
Trichloroethene
Concen: 8.90 ug/L
RT: 6.121 min Scan# 738
Delta R.T. -0.006 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion: 95 Resp: 43199

Ion	Ratio	Lower	Upper
95	100		
97	69.4	55.0	82.4
130	121.0	89.2	133.8

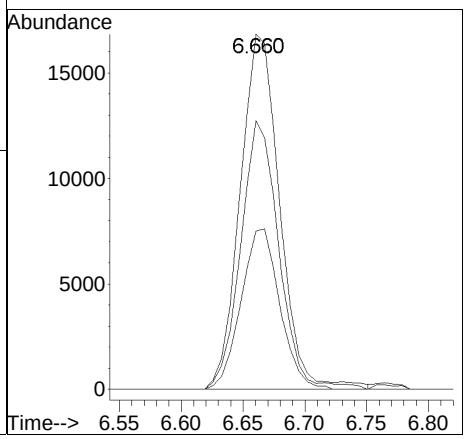


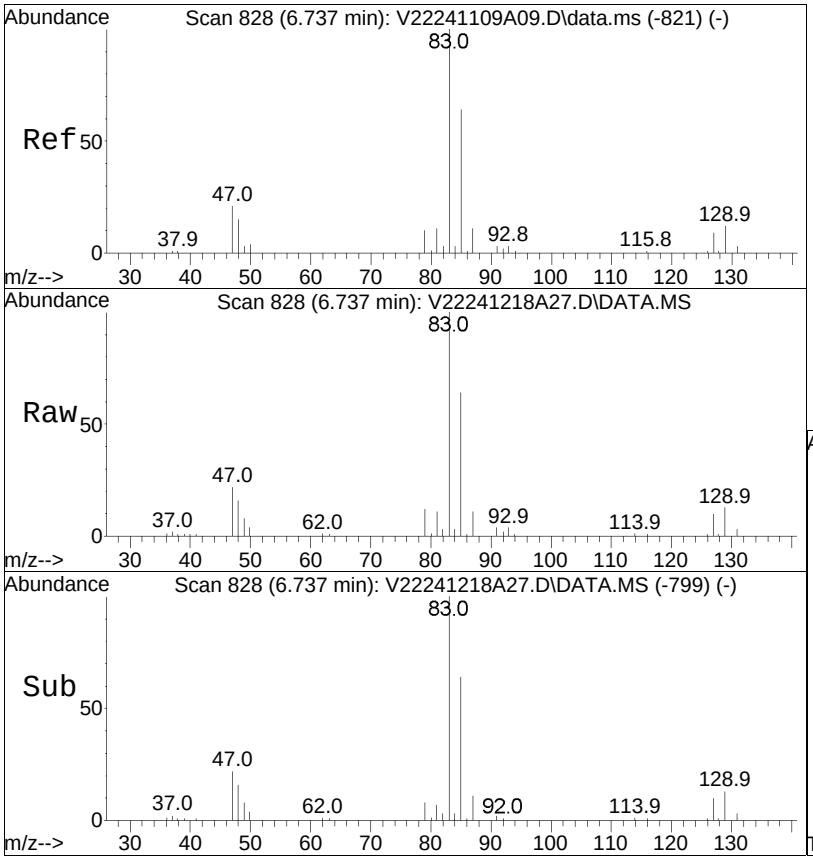


#54
1,2-Dichloropropane
Concen: 8.95 ug/L
RT: 6.660 min Scan# 817
Delta R.T. -0.007 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion: 63 Resp: 37491

Ion	Ratio	Lower	Upper
63	100		
62	72.8	56.9	85.3
76	44.4	35.8	53.8

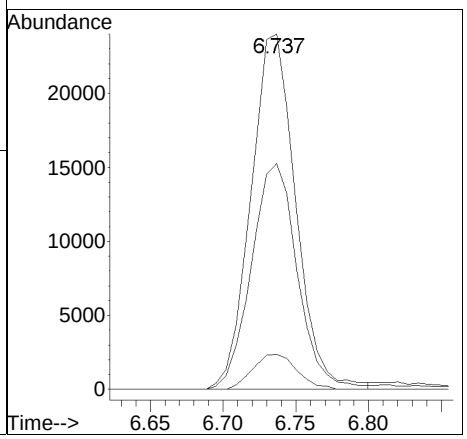


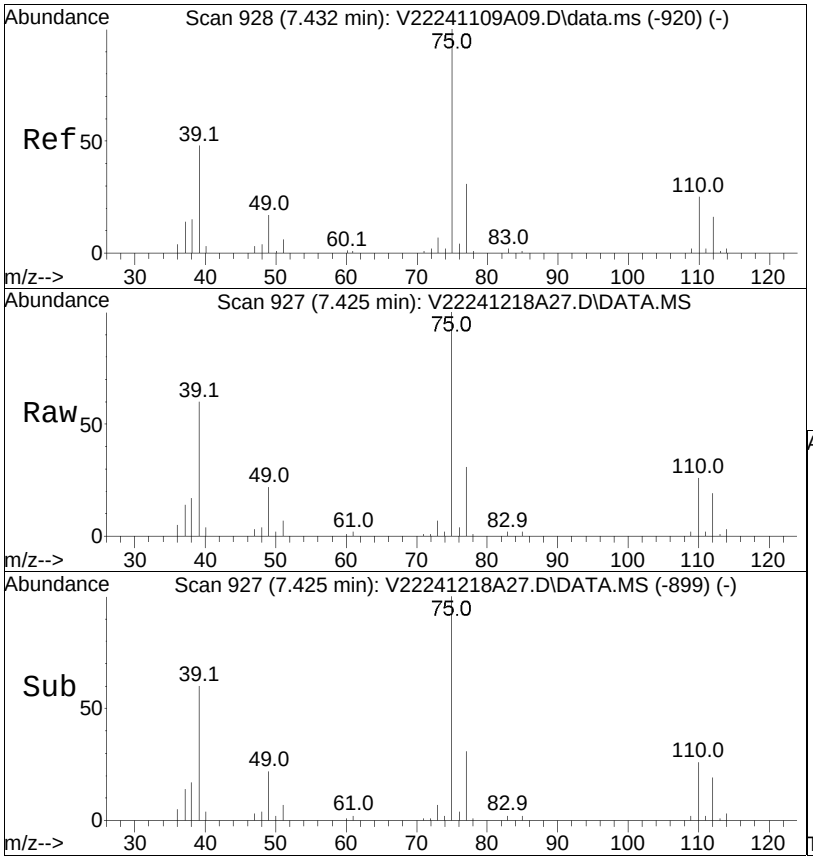


#57
Bromodichloromethane
Concen: 8.85 ug/L
RT: 6.737 min Scan# 828
Delta R.T. 0.000 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion: 83 Resp: 51490

Ion	Ratio	Lower	Upper
83	100		
85	65.4	51.6	77.4
127	9.8	7.4	11.0

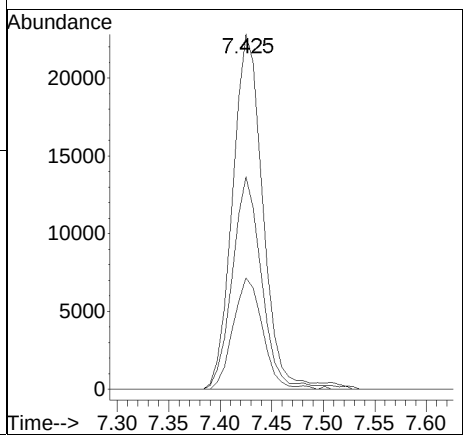


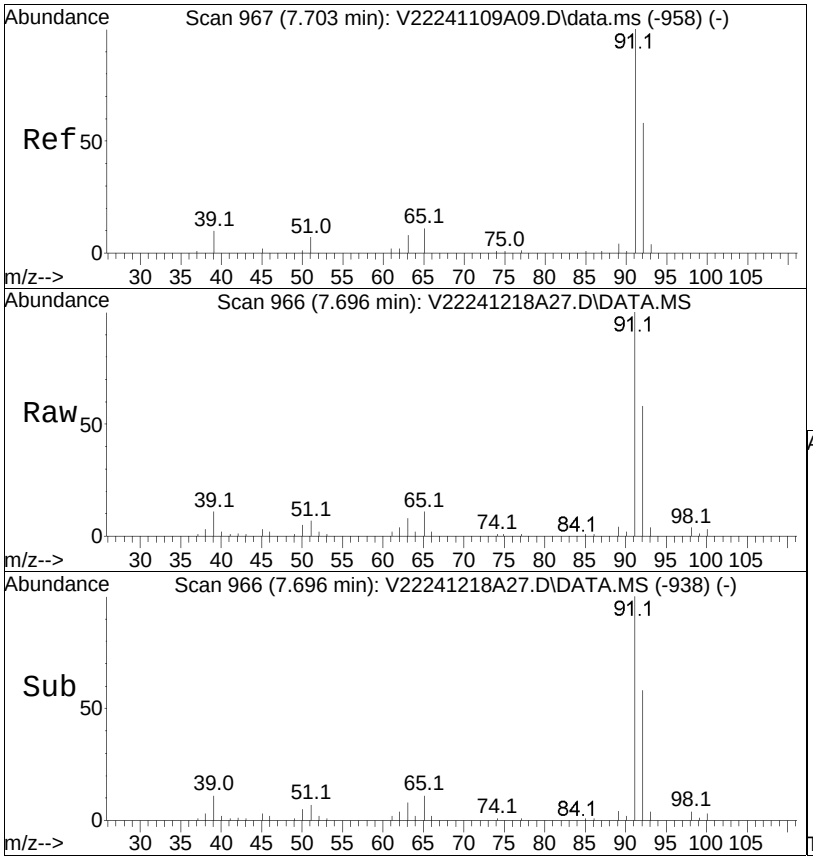


#61
cis-1,3-Dichloropropene
Concen: 7.76 ug/L
RT: 7.425 min Scan# 927
Delta R.T. -0.007 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion: 75 Resp: 47026

Ion	Ratio	Lower	Upper
75	100		
77	30.4	25.6	38.4
39	58.1	35.4	53.0#

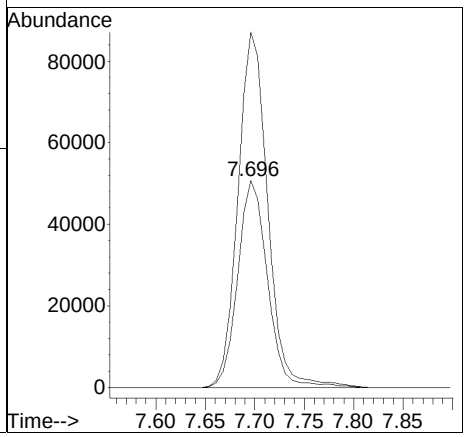


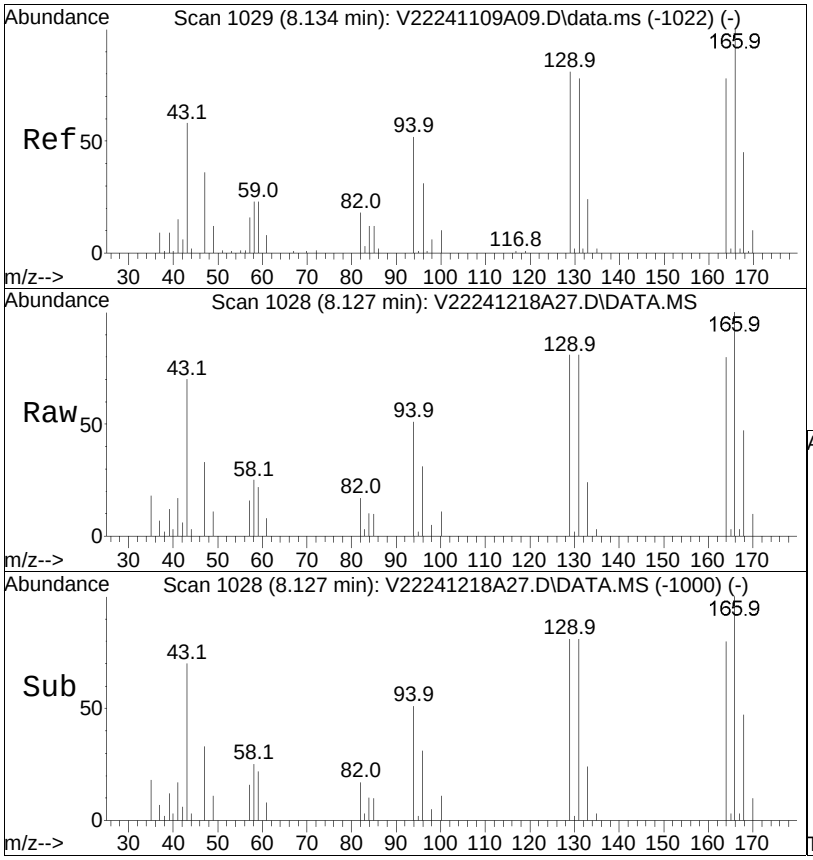


#64
Toluene
Concen: 9.05 ug/L
RT: 7.696 min Scan# 966
Delta R.T. -0.007 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion: 92 Resp: 106137

Ion	Ratio	Lower	Upper
92	100		
91	171.1	137.0	205.6

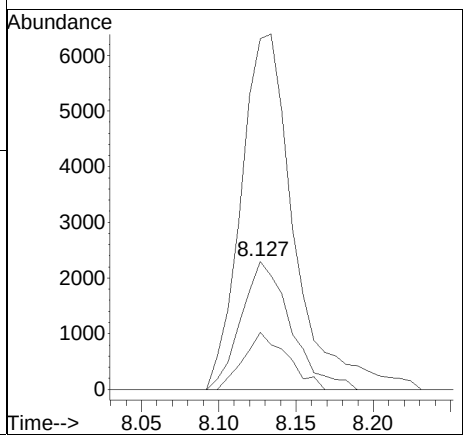


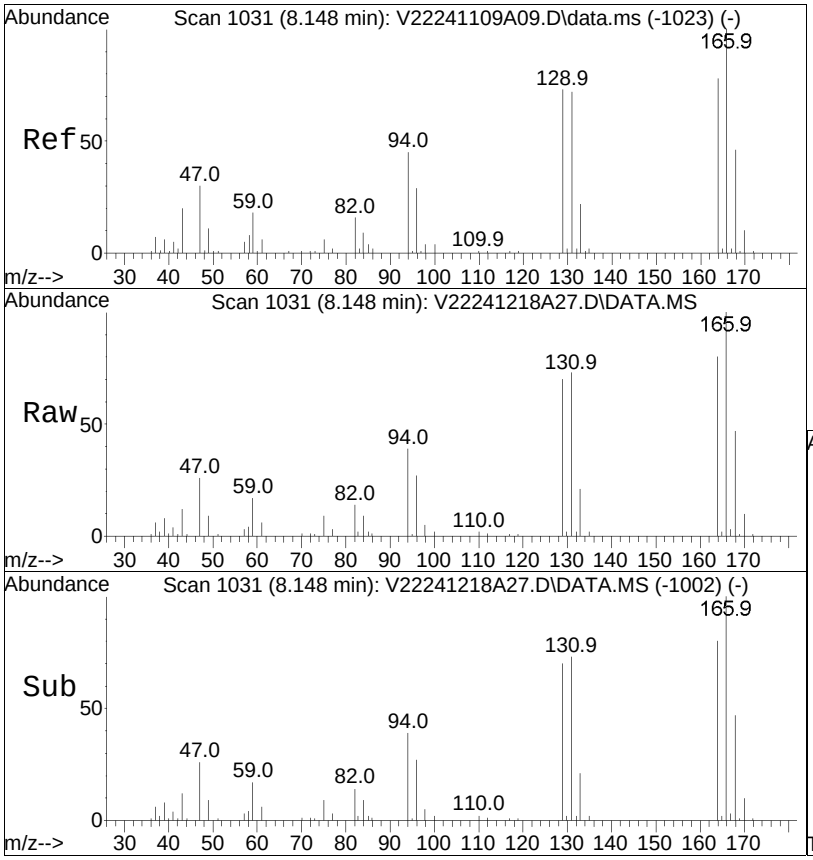


#65
4-Methyl-2-pentanone
Concen: 6.35 ug/L
RT: 8.127 min Scan# 1028
Delta R.T. -0.007 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion: 58 Resp: 5121

Ion	Ratio	Lower	Upper
58	100		
100	39.4	36.2	54.4
43	299.3	181.8	272.8#

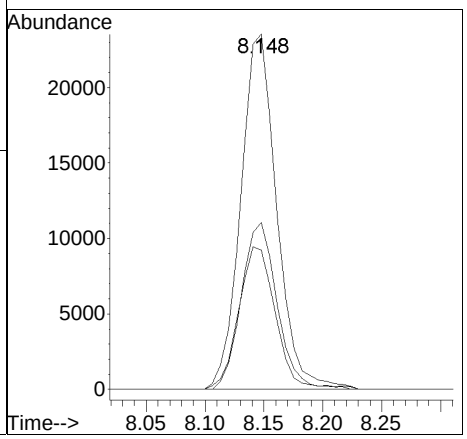


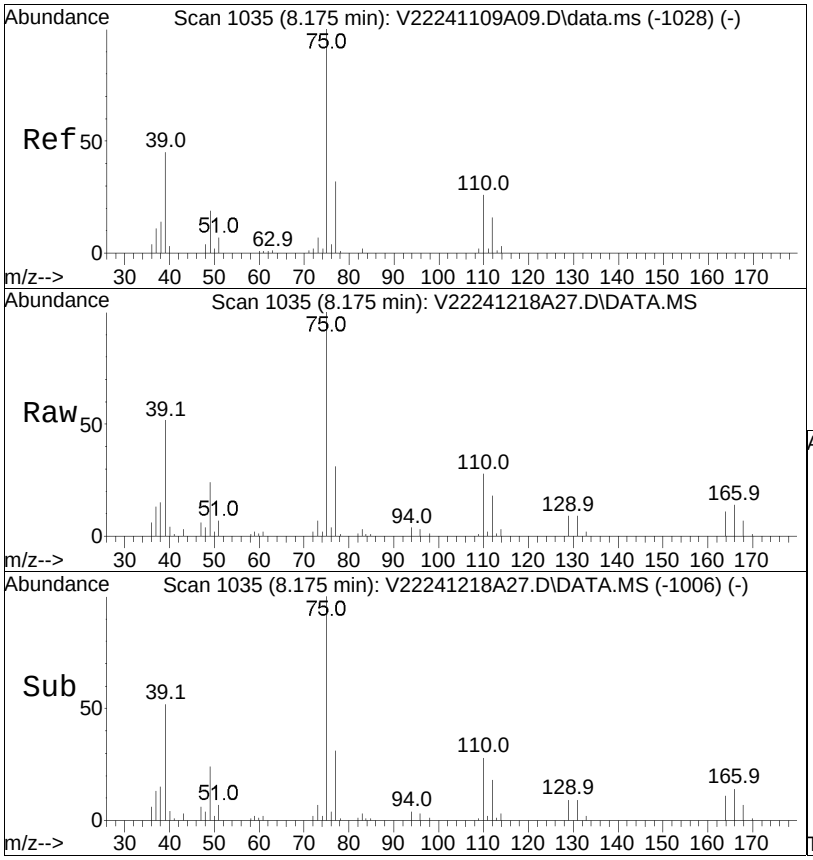


#66
Tetrachloroethene
Concen: 9.34 ug/L
RT: 8.148 min Scan# 1031
Delta R.T. 0.000 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion:166 Resp: 50188

Ion	Ratio	Lower	Upper
166	100		
168	46.9	27.8	67.8
94	40.8	16.7	56.7

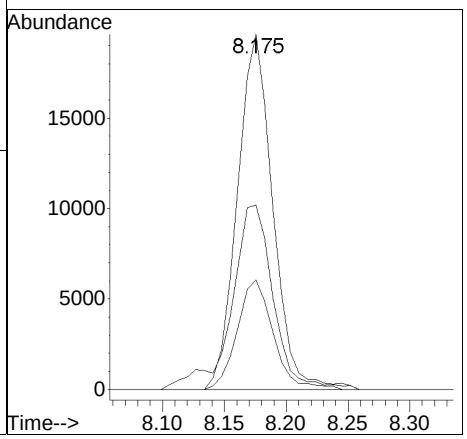


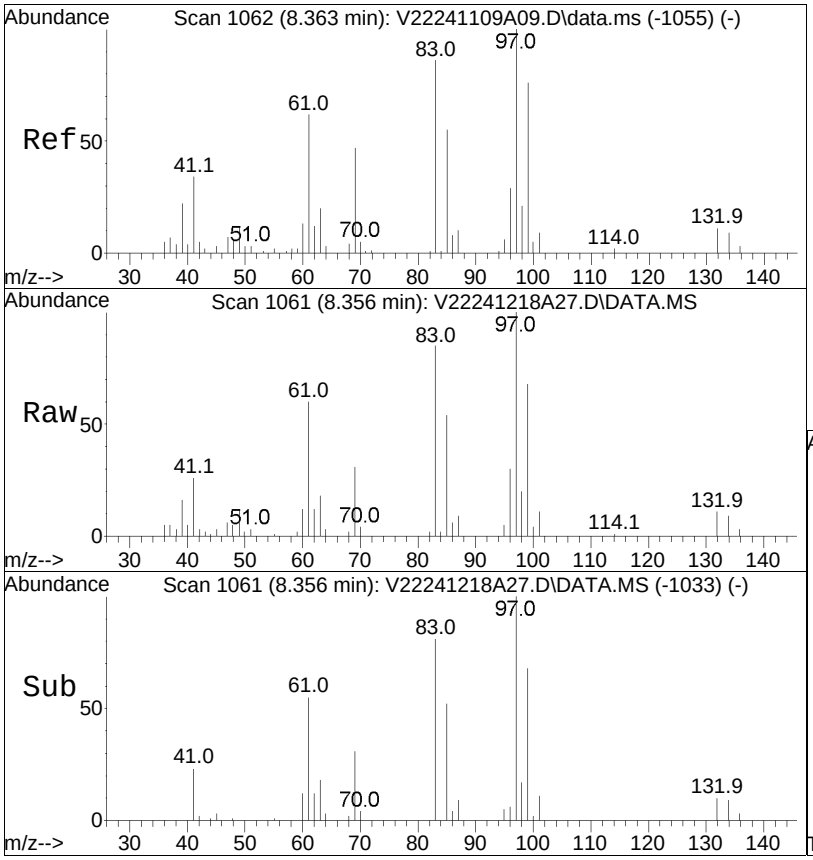


#68
trans-1,3-Dichloropropene
Concen: 7.32 ug/L
RT: 8.175 min Scan# 1035
Delta R.T. 0.000 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion: 75 Resp: 39163

Ion	Ratio	Lower	Upper
75	100		
77	31.3	11.9	51.9
39	61.0	27.4	67.4

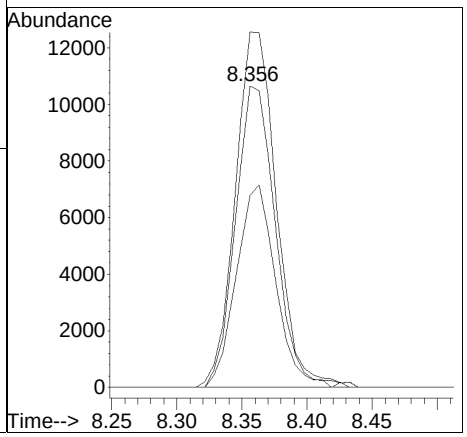


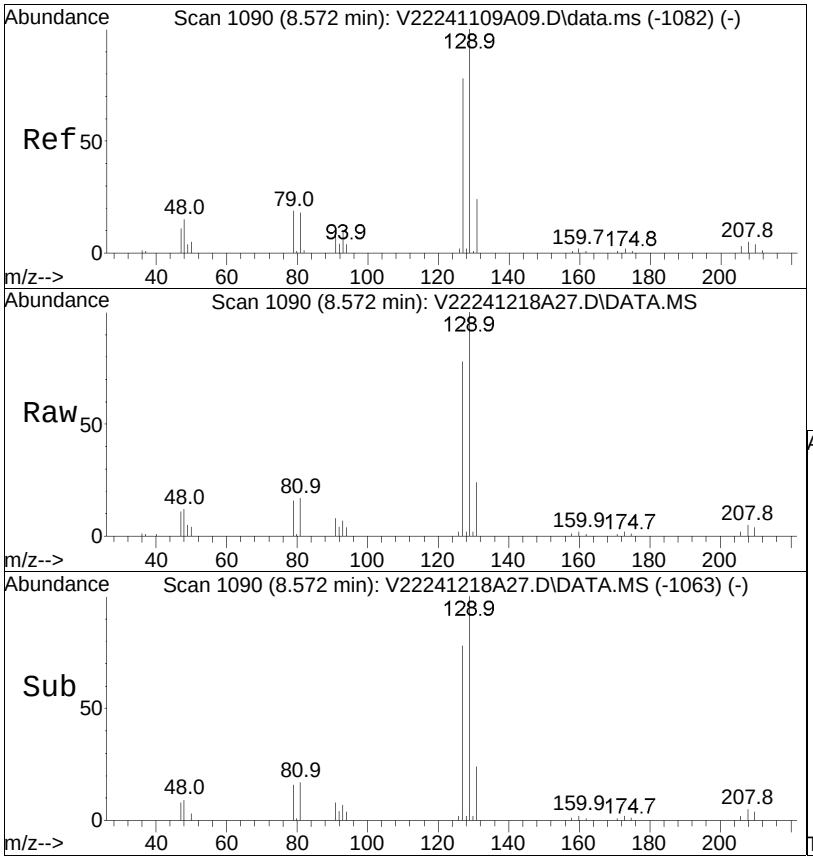


#71
1,1,2-Trichloroethane
Concen: 8.34 ug/L
RT: 8.356 min Scan# 1061
Delta R.T. -0.007 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion: 83 Resp: 22813

Ion	Ratio	Lower	Upper
83	100		
97	121.1	103.4	143.4
85	66.2	47.9	87.9

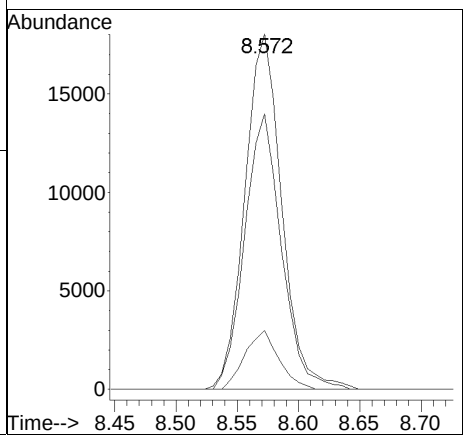


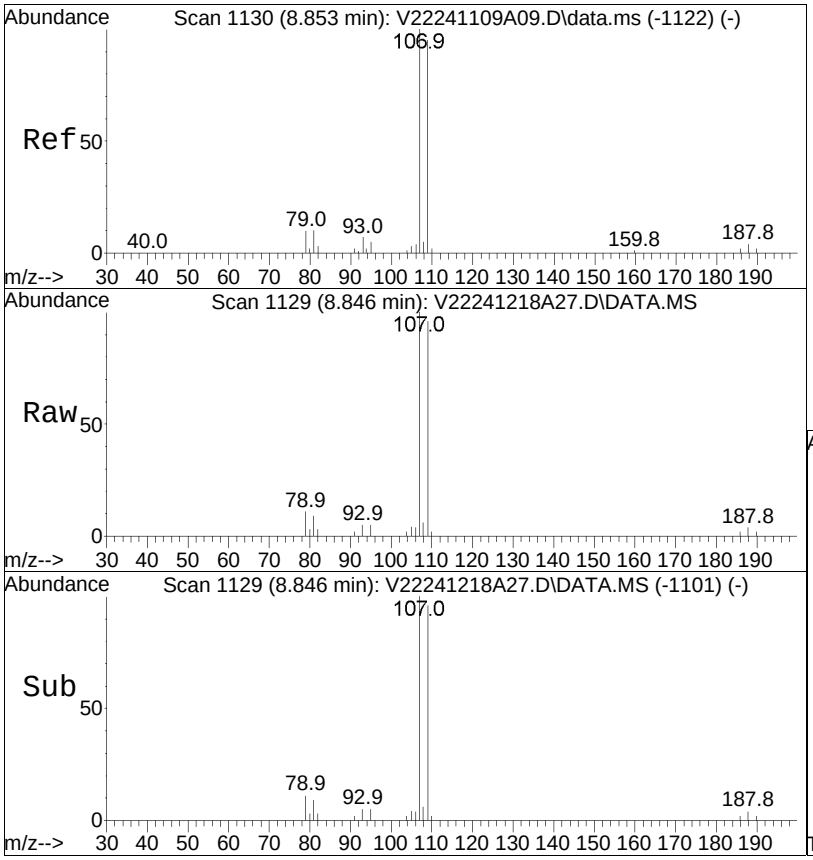


#72
Chlorodibromomethane
Concen: 8.41 ug/L
RT: 8.572 min Scan# 1090
Delta R.T. 0.000 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion:129 Resp: 37898

Ion	Ratio	Lower	Upper
129	100		
81	15.3	0.0	33.8
127	77.2	57.1	97.1

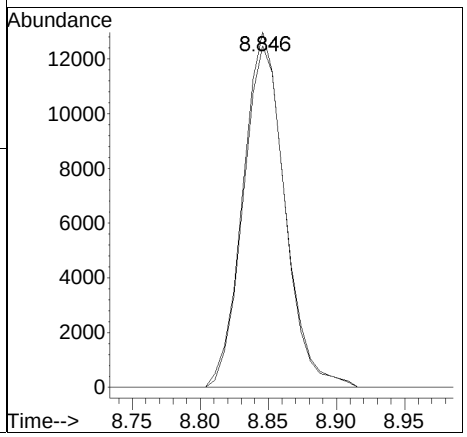


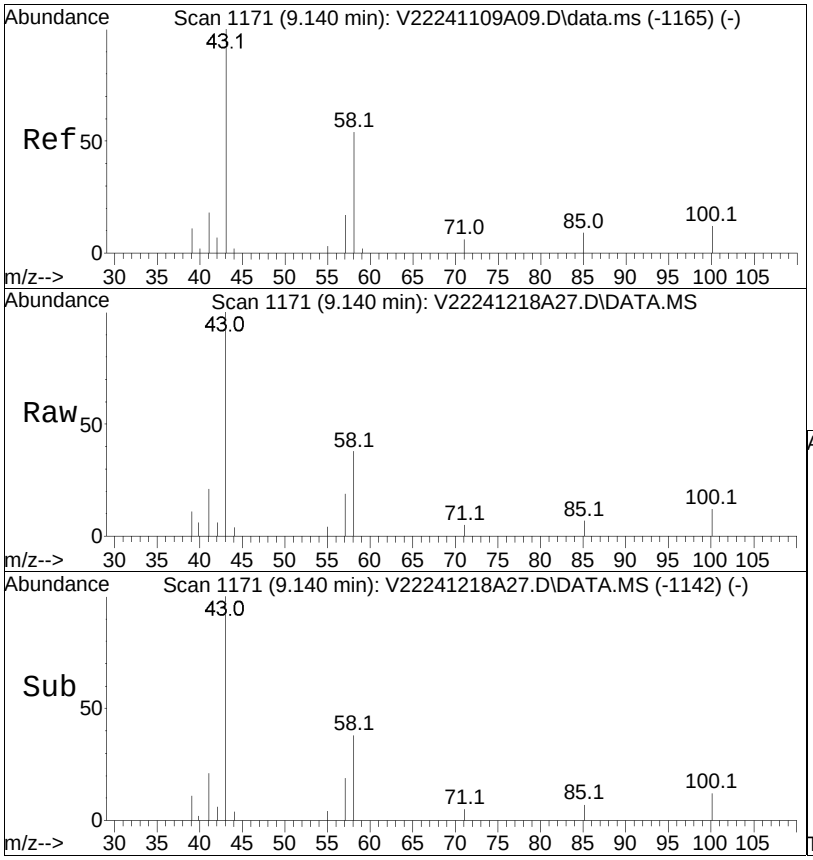


#74
1,2-Dibromoethane
Concen: 8.27 ug/L
RT: 8.846 min Scan# 1129
Delta R.T. -0.007 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion:107 Resp: 27839

Ion	Ratio	Lower	Upper
107	100		
109	96.0	75.1	112.7

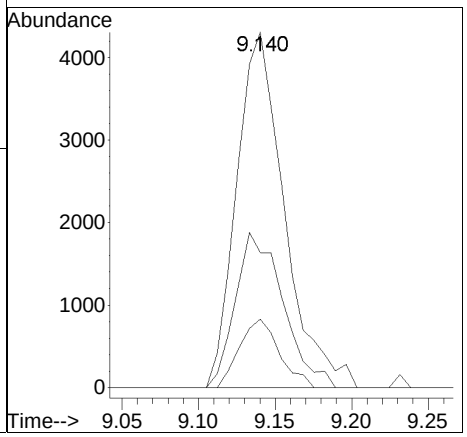


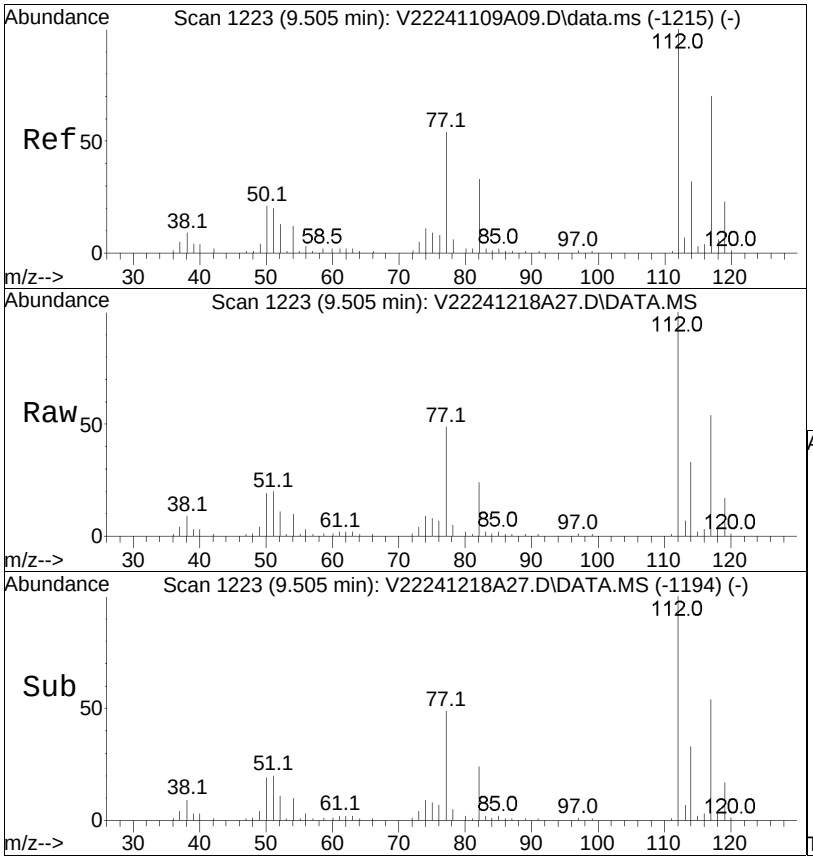


#76
2-Hexanone
Concen: 7.11 ug/L
RT: 9.140 min Scan# 1171
Delta R.T. 0.000 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion: 43 Resp: 9332

Ion	Ratio	Lower	Upper
43	100		
58	43.5	47.6	71.4#
57	16.1	16.6	24.8#

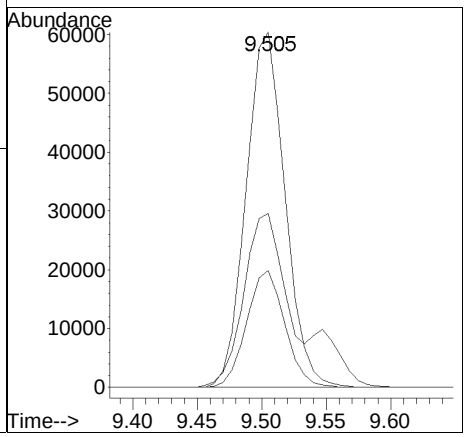


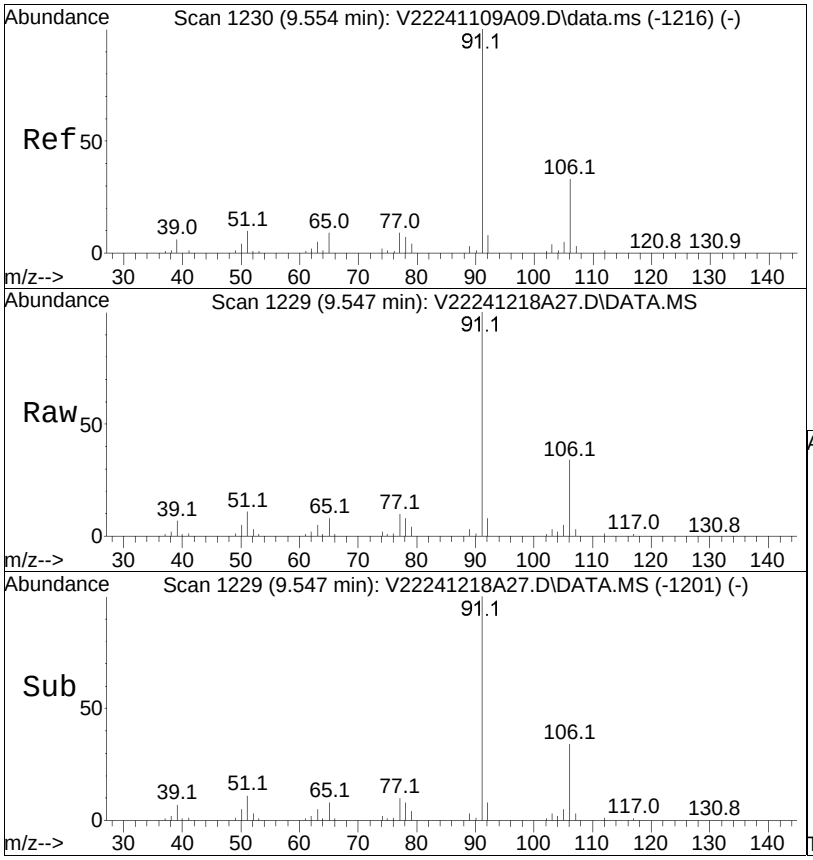


#77
Chlorobenzene
Concen: 9.37 ug/L
RT: 9.505 min Scan# 1223
Delta R.T. 0.000 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion:112 Resp: 126916

Ion	Ratio	Lower	Upper
112	100		
77	52.7	55.4	83.0#
114	32.3	26.2	39.4

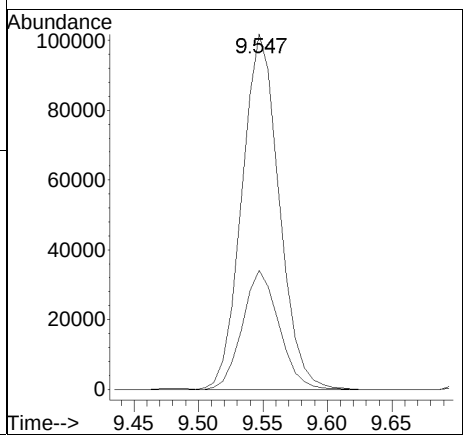


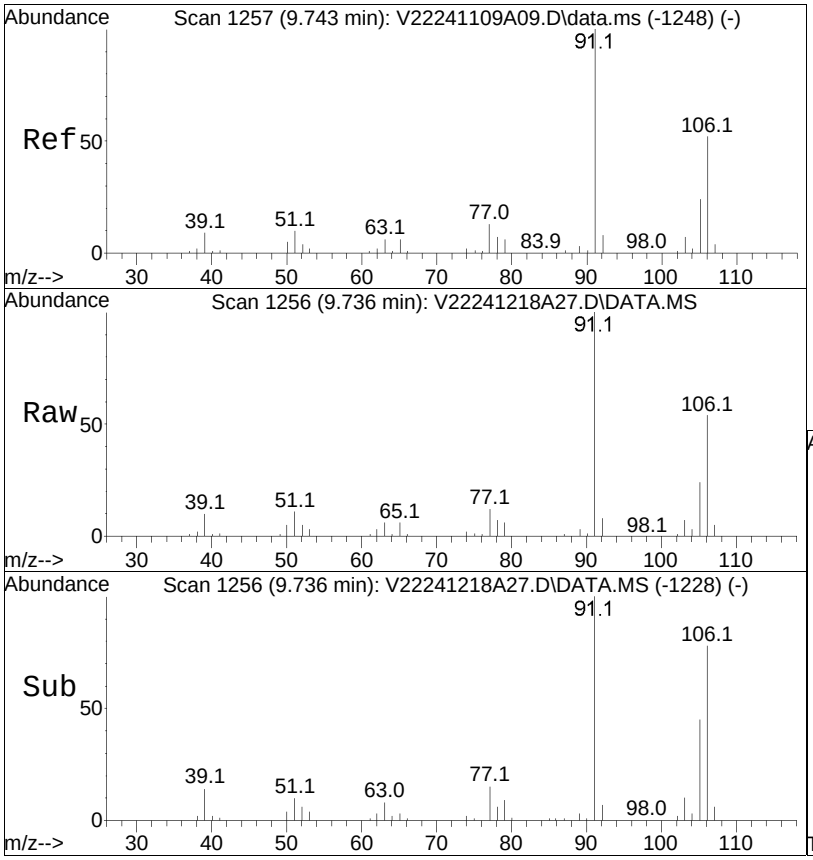


#78
Ethylbenzene
Concen: 8.77 ug/L
RT: 9.547 min Scan# 1229
Delta R.T. -0.007 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion: 91 Resp: 204407

Ion	Ratio	Lower	Upper
91	100		
106	32.9	25.8	38.6

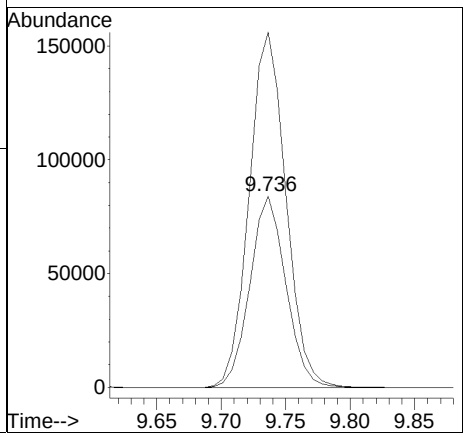


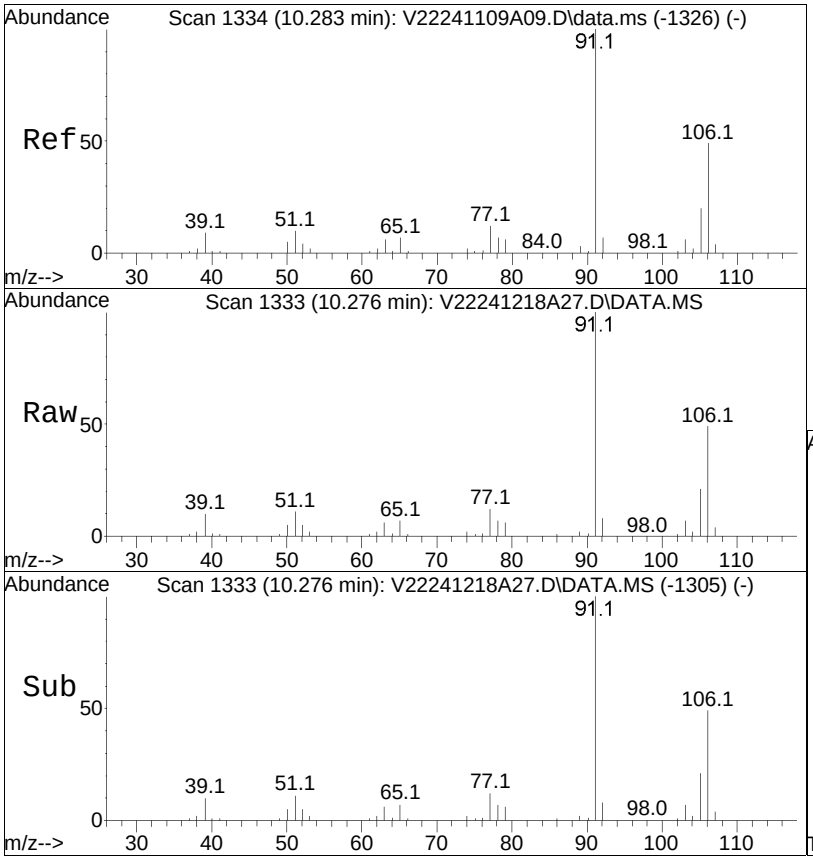


#80
p/m Xylene
Concen: 16.93 ug/L
RT: 9.736 min Scan# 1256
Delta R.T. -0.007 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion:106 Resp: 162793

Ion	Ratio	Lower	Upper
106	100		
91	189.5	156.0	234.0

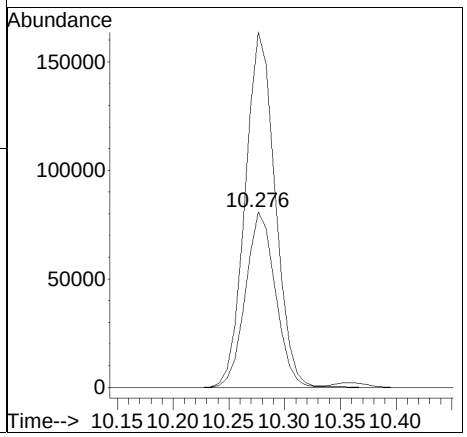


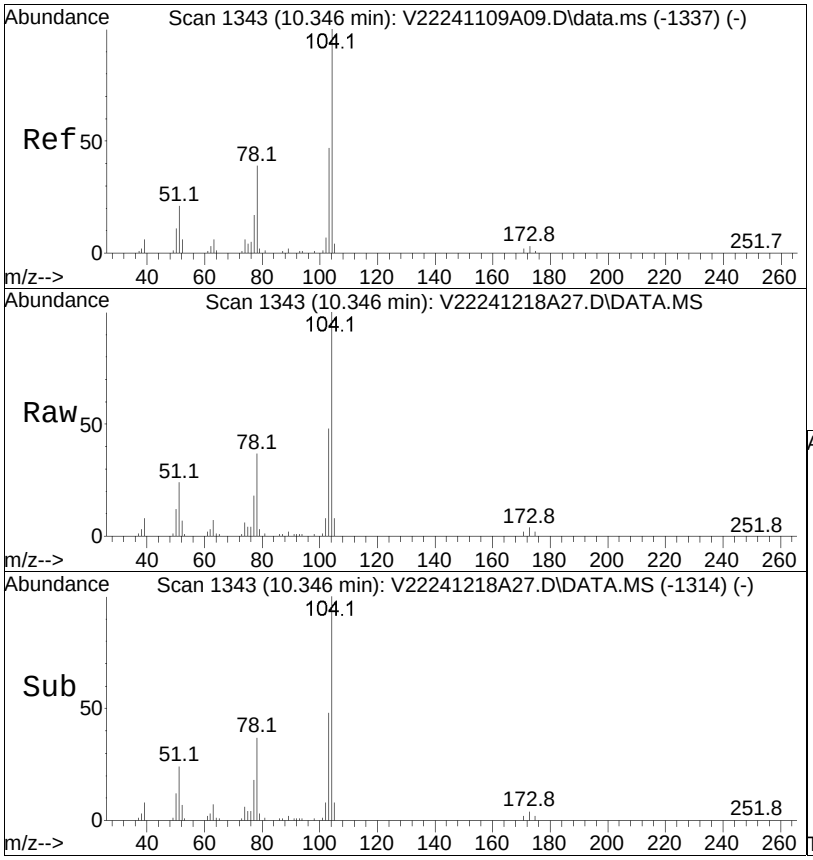


#81
o Xylene
Concen: 16.53 ug/L
RT: 10.276 min Scan# 1333
Delta R.T. -0.007 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion:106 Resp: 151517

Ion	Ratio	Lower	Upper
106	100		
91	202.0	164.0	246.0

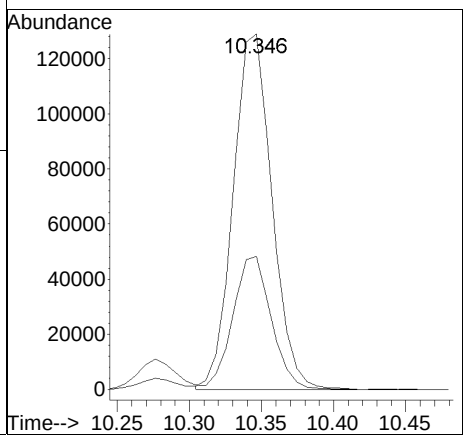


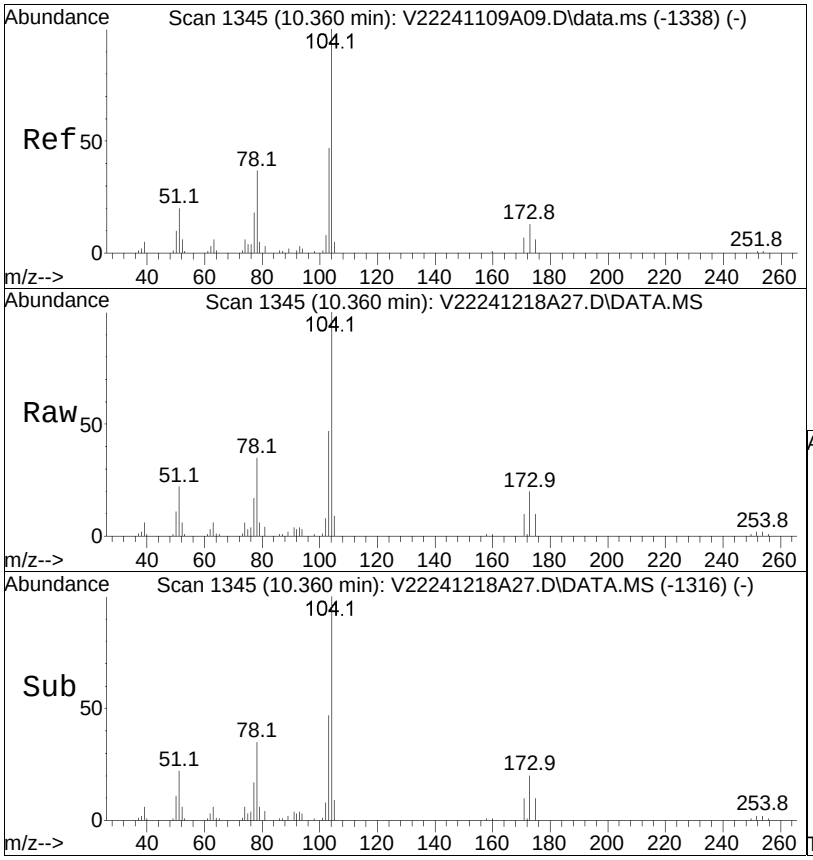


#82
Styrene
Concen: 16.36 ug/L
RT: 10.346 min Scan# 1343
Delta R.T. 0.000 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion:104 Resp: 241222

Ion	Ratio	Lower	Upper
104	100		
78	36.9	32.1	48.1

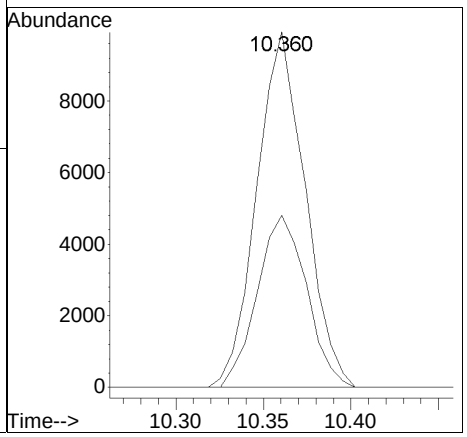


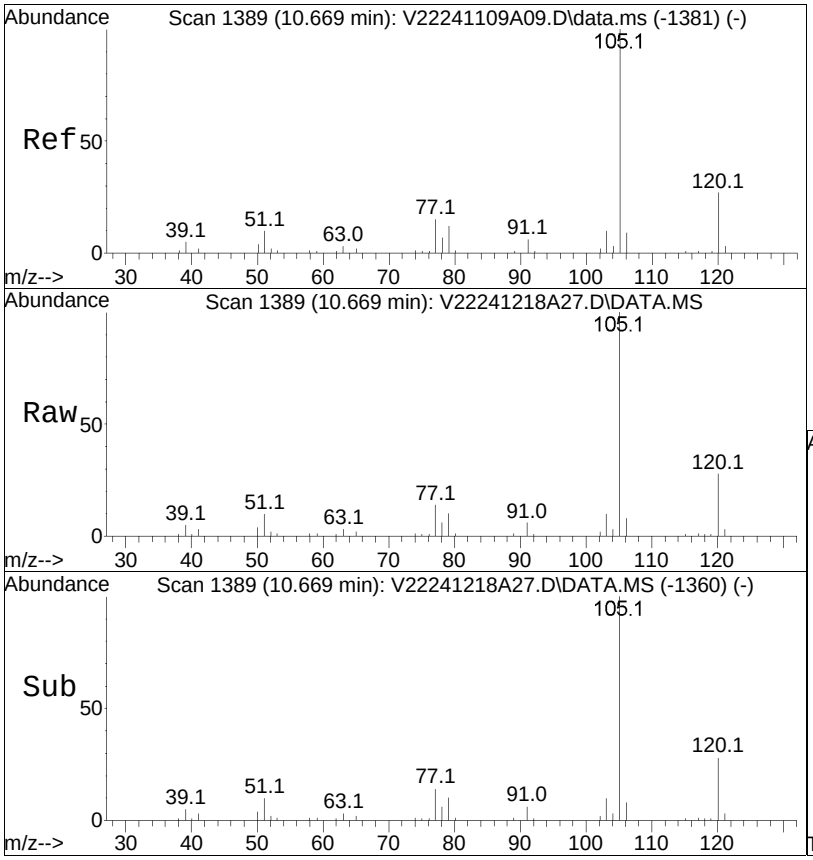


#84
Bromoform
Concen: 7.55 ug/L
RT: 10.360 min Scan# 1345
Delta R.T. 0.000 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion:173 Resp: 19080

Ion	Ratio	Lower	Upper
173	100		
175	49.3	29.3	69.3

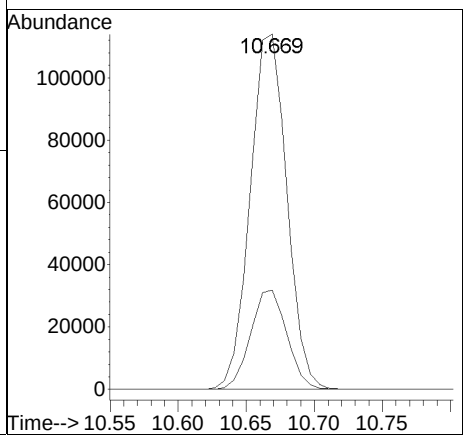


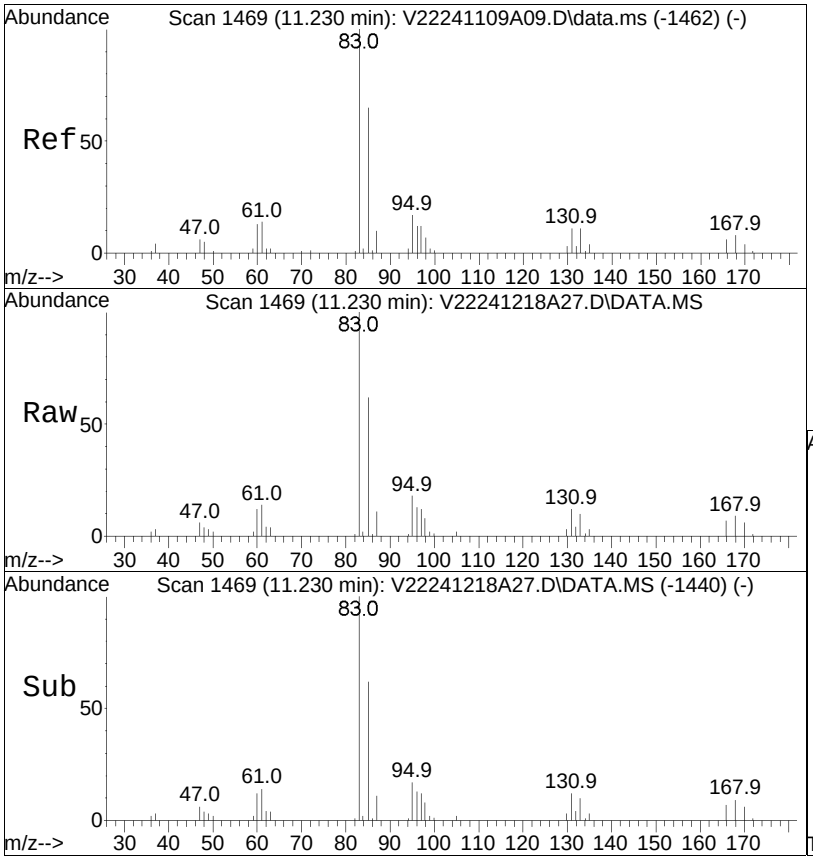


#86
Isopropylbenzene
Concen: 8.86 ug/L
RT: 10.669 min Scan# 1389
Delta R.T. 0.000 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion:105 Resp: 213432

Ion	Ratio	Lower	Upper
105	100		
120	27.7	7.7	47.7

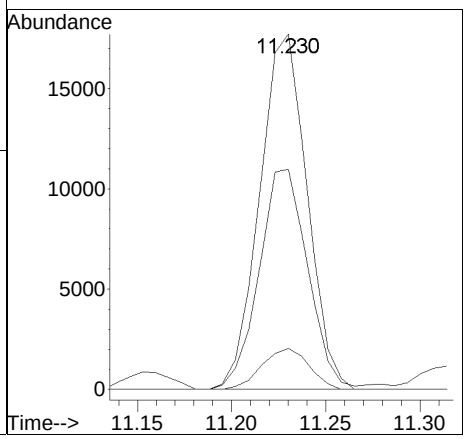


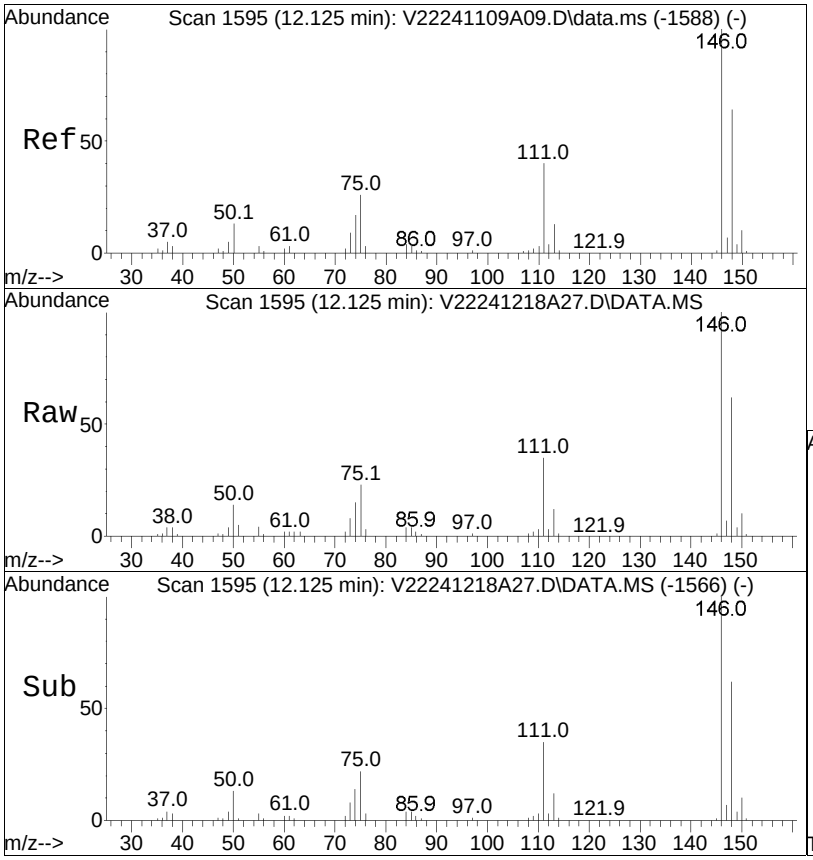


#91
1,1,2,2-Tetrachloroethane
Concen: 8.26 ug/L
RT: 11.230 min Scan# 1469
Delta R.T. 0.000 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion: 83 Resp: 30987

Ion	Ratio	Lower	Upper
83	100		
131	11.5	0.0	30.8
85	63.8	45.4	85.4

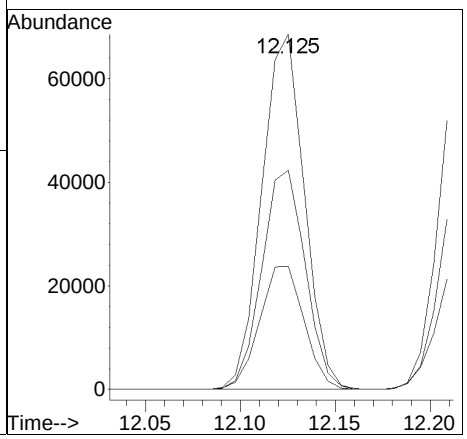


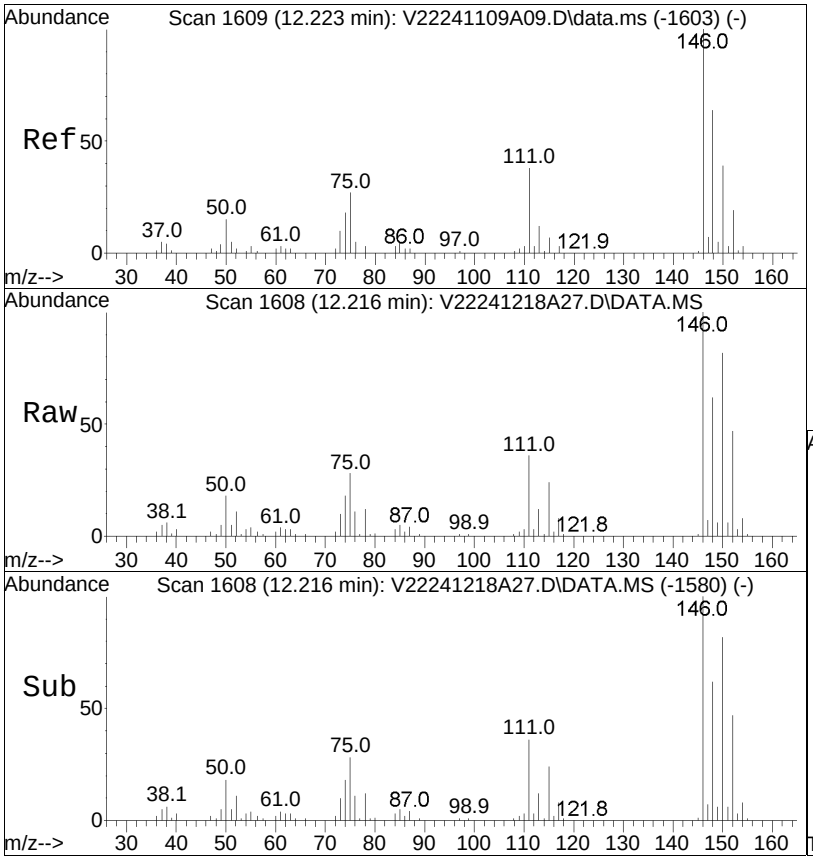


#104
1,3-Dichlorobenzene
Concen: 9.30 ug/L
RT: 12.125 min Scan# 1595
Delta R.T. 0.000 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion:146 Resp: 106691

Ion	Ratio	Lower	Upper
146	100		
111	36.3	24.0	49.8
148	63.1	41.8	86.8

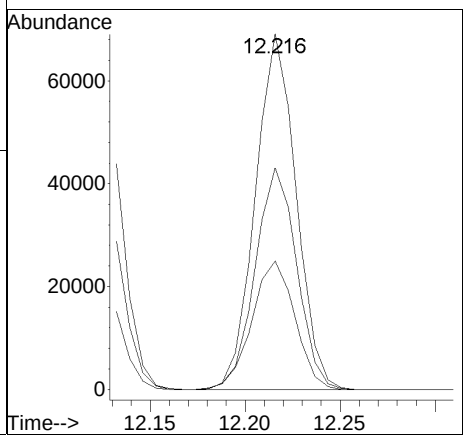


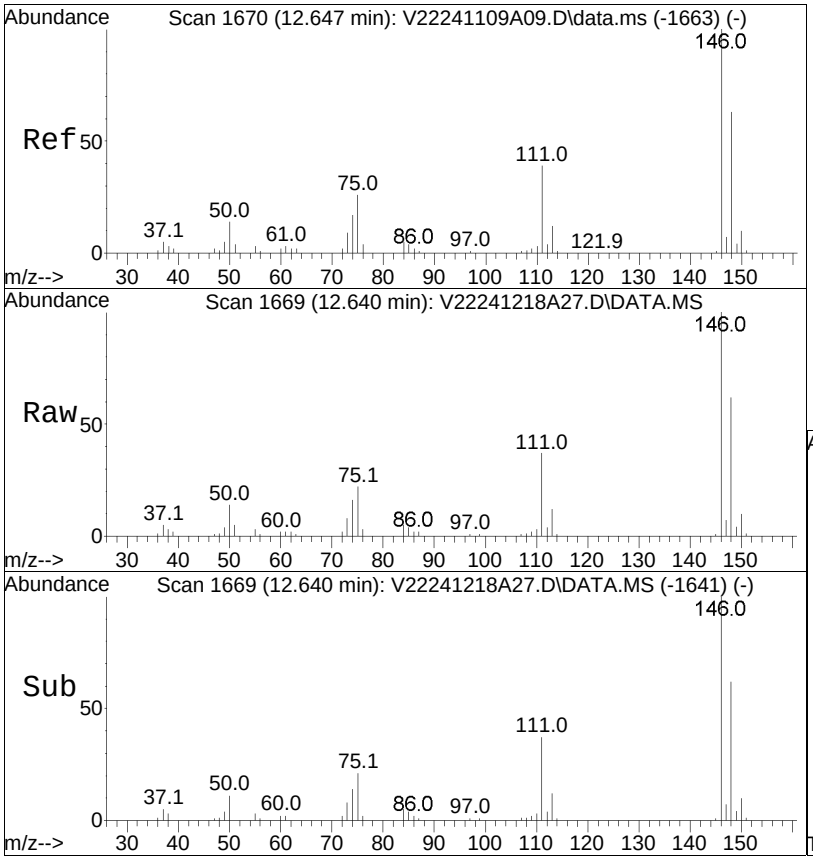


#105
1,4-Dichlorobenzene
Concen: 9.00 ug/L
RT: 12.216 min Scan# 1608
Delta R.T. -0.007 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion:146 Resp: 103131

Ion	Ratio	Lower	Upper
146	100		
111	38.2	28.9	43.3
148	63.5	51.4	77.2

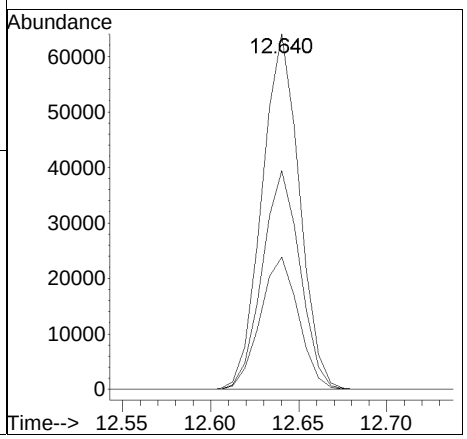


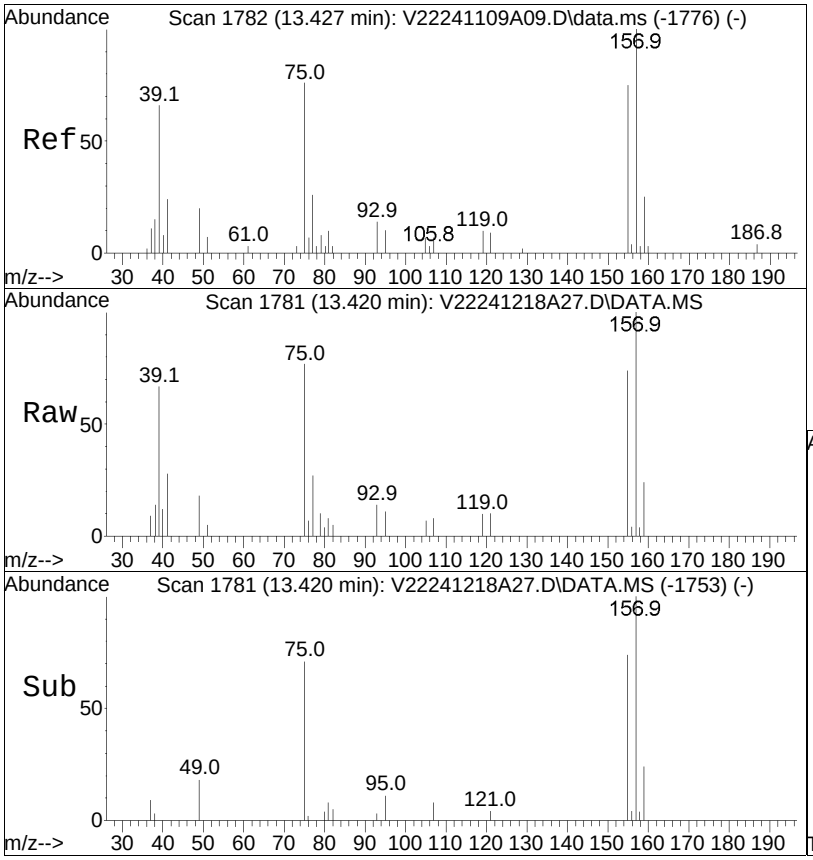


#108
1,2-Dichlorobenzene
Concen: 9.25 ug/L
RT: 12.640 min Scan# 1669
Delta R.T. -0.007 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion:146 Resp: 94696

Ion	Ratio	Lower	Upper
146	100		
111	38.0	24.8	51.6
148	62.1	42.2	87.6

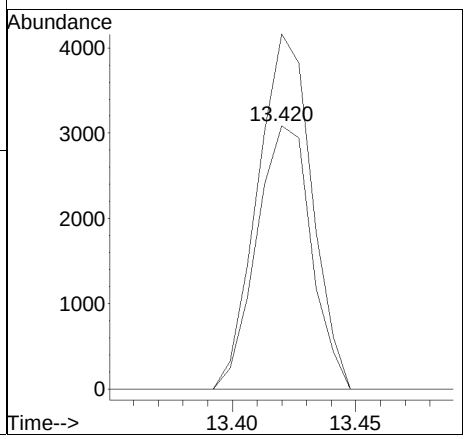


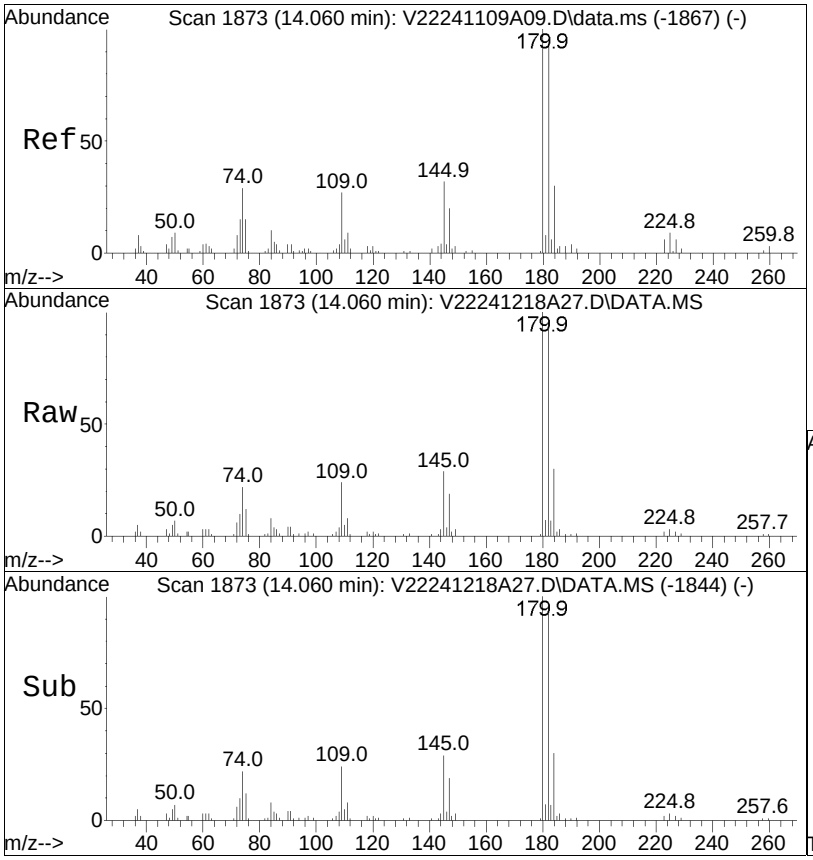


#110
1,2-Dibromo-3-chloropropane
Concen: 8.13 ug/L
RT: 13.420 min Scan# 1781
Delta R.T. -0.007 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion:155 Resp: 4754

Ion	Ratio	Lower	Upper
155	100		
157	133.8	102.3	153.5

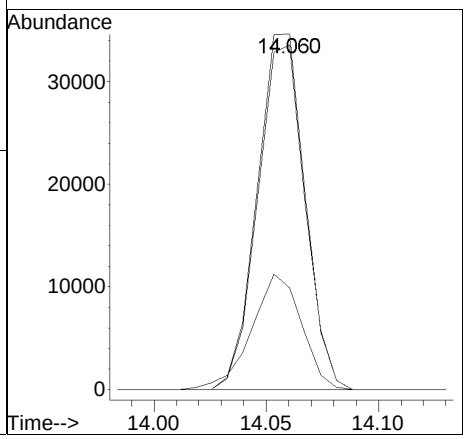


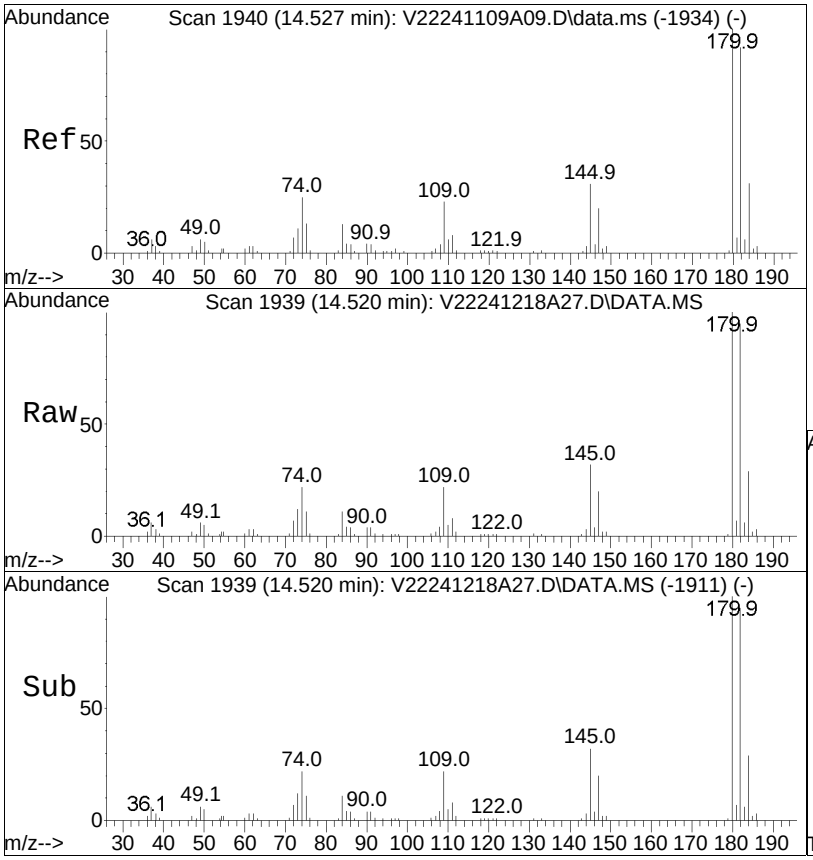


#113
1,2,4-Trichlorobenzene
Concen: 8.57 ug/L
RT: 14.060 min Scan# 1873
Delta R.T. 0.000 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion:180 Resp: 51268

Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.6	114.8
145	33.8	25.5	38.3

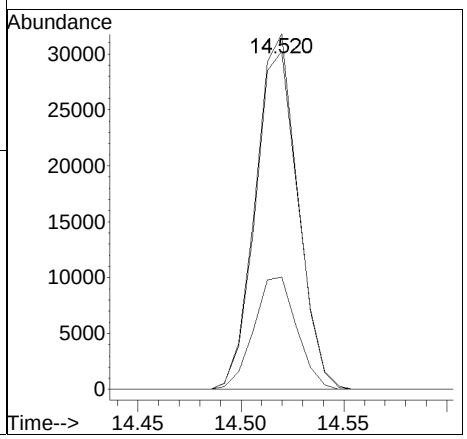




#115
1,2,3-Trichlorobenzene
Concen: 8.90 ug/L
RT: 14.520 min Scan# 1939
Delta R.T. -0.007 min
Lab File: V22241218A27.D
Acq: 18 Dec 2024 06:08 pm

Tgt Ion:180 Resp: 45184

Ion	Ratio	Lower	Upper
180	100		
182	96.7	76.0	114.0
145	32.3	23.8	35.8



Manual Integration Report

Data Path	: K:\VOA122\2024\241218A\	QMethod	: V122_241109A_8260.m
Data File	: V22241218A27.D	Operator	: VOA122:MJV
Date Inj'd	: 12/18/2024 6:08 pm	Instrument	: VOA 122
Sample	: WG2010821-6,31,10,10,,A1	Quant Date	: 12/19/2024 7:10 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A28.D
Acq On : 18 Dec 2024 06:32 pm
Operator : VOA122:MJV
Sample : WG2010821-7,31,10,10,,A2
Misc : WG2010821,ICAL21691
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 19 07:10:21 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.944	96	354378	10.000	ug/L	0.00
Standard Area 1 = 488520			Recovery = 72.54%			
62) Chlorobenzene-d5	9.484	117	294415	10.000	ug/L	0.00
Standard Area 1 = 400401			Recovery = 73.53%			
83) 1,4-Dichlorobenzene-d4	12.202	152	162093	10.000	ug/L	0.00
Standard Area 1 = 207680			Recovery = 78.05%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.131	113	127239	10.520	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.20%			
46) 1,2-Dichloroethane-d4	5.649	65	75765	10.137	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.37%			
63) Toluene-d8	7.640	98	357402	9.628	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.28%			
87) 4-Bromofluorobenzene	10.984	95	126760	9.579	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.79%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.612	85	50783	6.939	ug/L	97
3) Chloromethane	1.795	50	63988	10.217	ug/L	98
4) Vinyl chloride	1.867	62	62535	7.487	ug/L	100
5) Bromomethane	2.175	94	16872	2.796	ug/L	97
6) Chloroethane	2.287	64	36639	6.401	ug/L	98
7) Trichlorofluoromethane	2.431	101	94886	9.927	ug/L	100
10) 1,1-Dichloroethene	2.909	96	52337	10.378	ug/L	93
11) Carbon disulfide	2.942	76	152349	9.938	ug/L	100
12) Freon-113	2.949	101	52162	9.836	ug/L	99
15) Methylene chloride	3.453	84	59179	9.986	ug/L #	75
17) Acetone	3.486	43	9158	10.732	ug/L	93
18) trans-1,2-Dichloroethene	3.604	96	58127	10.500	ug/L	97
19) Methyl acetate	3.611	43	17637	8.505	ug/L #	90
21) Methyl tert-butyl ether	3.703	73	85109	8.765	ug/L #	83
25) 1,1-Dichloroethane	4.181	63	102945	10.270	ug/L	97
30) cis-1,2-Dichloroethene	4.699	96	64510	10.529	ug/L	96
32) Bromochloromethane	4.882	128	33193	10.778	ug/L	90
33) Cyclohexane	4.895	56	87040	9.119	ug/L	88
34) Chloroform	4.961	83	98265	9.805	ug/L	96
36) Carbon tetrachloride	5.099	117	85803	10.584	ug/L	99

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A28.D
Acq On : 18 Dec 2024 06:32 pm
Operator : VOA122:MJV
Sample : WG2010821-7,31,10,10,,A2
Misc : WG2010821,ICAL21691
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 19 07:10:21 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\241218A\V22241218A02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) 1,1,1-Trichloroethane	5.164	97	95008	10.398	ug/L		98
41) 2-Butanone	5.243	43	13530	11.161	ug/L	#	45
44) Benzene	5.525	78	205708	9.434	ug/L		94
47) 1,2-Dichloroethane	5.728	62	51058	9.640	ug/L		99
50) Methyl cyclohexane	6.121	83	61949	7.752	ug/L		85
51) Trichloroethene	6.121	95	48130	9.486	ug/L		96
54) 1,2-Dichloropropane	6.660	63	41595	9.491	ug/L		99
57) Bromodichloromethane	6.737	83	58003	9.529	ug/L		100
61) cis-1,3-Dichloropropene	7.425	75	52814	8.334	ug/L	#	87
64) Toluene	7.696	92	116041	9.502	ug/L		99
65) 4-Methyl-2-pentanone	8.127	58	5685	6.767	ug/L	#	61
66) Tetrachloroethene	8.147	166	53579	9.573	ug/L		96
68) trans-1,3-Dichloropropene	8.175	75	42469	7.617	ug/L		86
71) 1,1,2-Trichloroethane	8.356	83	24649	8.650	ug/L		99
72) Chlorodibromomethane	8.572	129	41722	8.892	ug/L		99
74) 1,2-Dibromoethane	8.845	107	30765	8.777	ug/L		99
76) 2-Hexanone	9.140	43	10731	7.854	ug/L	#	83
77) Chlorobenzene	9.505	112	137046	9.717	ug/L	#	86
78) Ethylbenzene	9.547	91	222086	9.145	ug/L		99
80) p/m Xylene	9.736	106	175410	17.509	ug/L		97
81) o Xylene	10.276	106	166507	17.435	ug/L		98
82) Styrene	10.346	104	262354	17.086	ug/L		96
84) Bromoform	10.360	173	21123	8.010	ug/L		98
86) Isopropylbenzene	10.669	105	230019	9.172	ug/L		100
91) 1,1,2,2-Tetrachloroethane	11.230	83	33861	8.673	ug/L		99
104) 1,3-Dichlorobenzene	12.125	146	113143	9.477	ug/L		99
105) 1,4-Dichlorobenzene	12.216	146	112194	9.405	ug/L		98
108) 1,2-Dichlorobenzene	12.640	146	100478	9.433	ug/L		98
110) 1,2-Dibromo-3-chloropr...	13.420	155	5257	8.641	ug/L		99
113) 1,2,4-Trichlorobenzene	14.053	180	55935	8.987	ug/L		99
115) 1,2,3-Trichlorobenzene	14.520	180	50084	9.479	ug/L		98

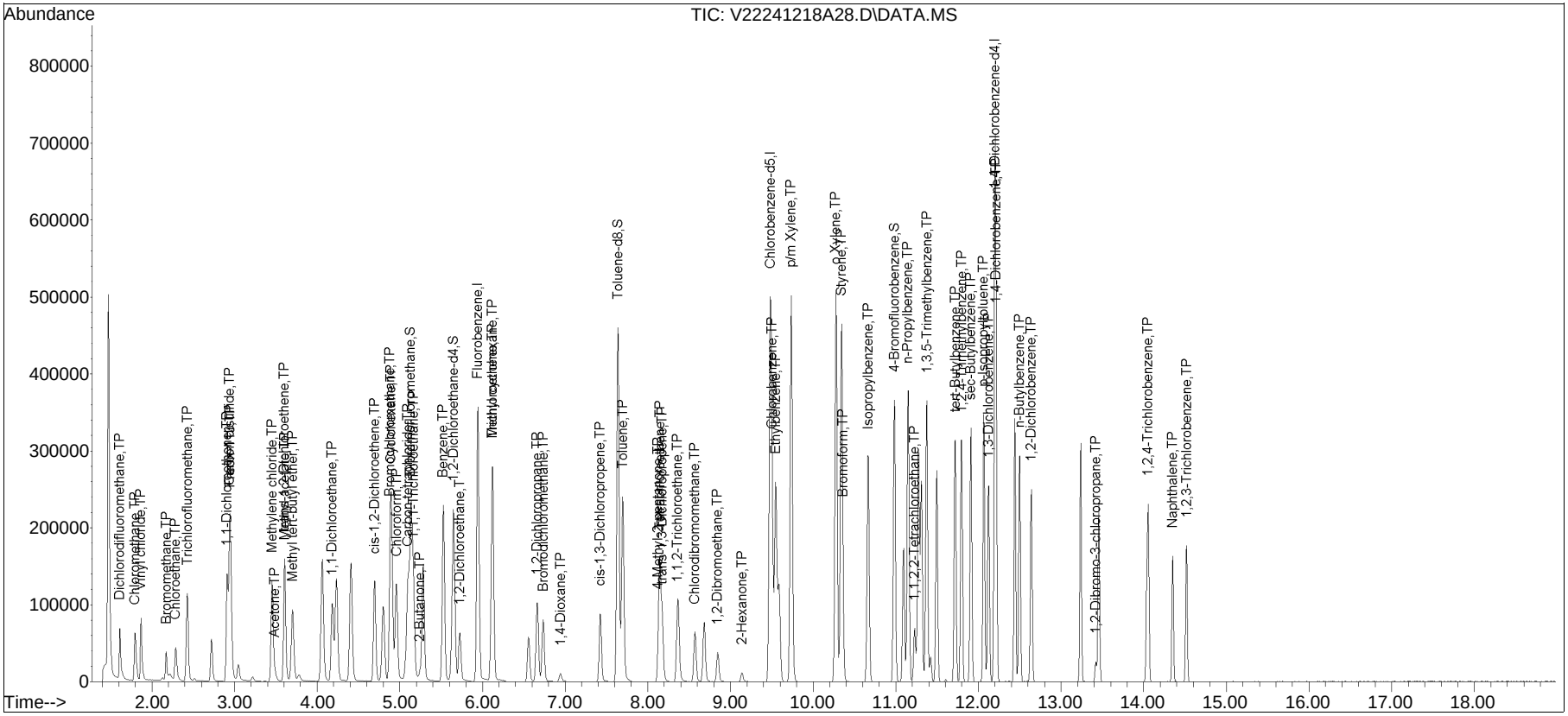
(#) = qualifier out of range (m) = manual integration (+) = signals summed

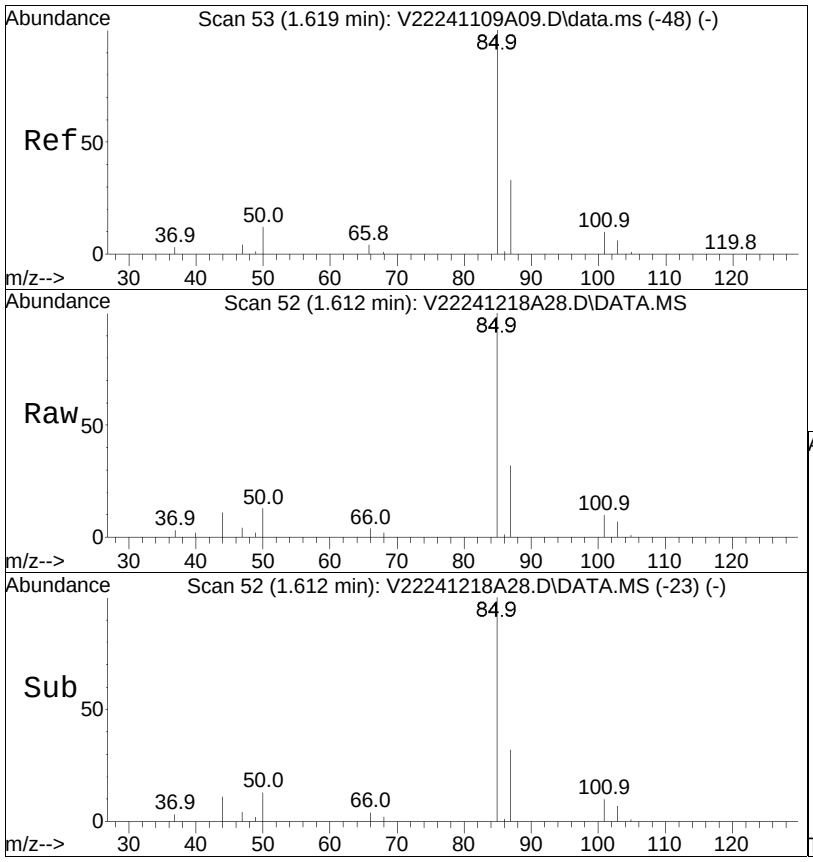
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241218A\
Data File : V22241218A28.D
Acq On : 18 Dec 2024 06:32 pm
Operator : VOA122:MJV
Sample : WG2010821-7,31,10,10,,A2
Misc : WG2010821,ICAL21691
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 19 07:10:21 2024
Quant Method : K:\VOA122\2024\241218A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS1218A02.D•

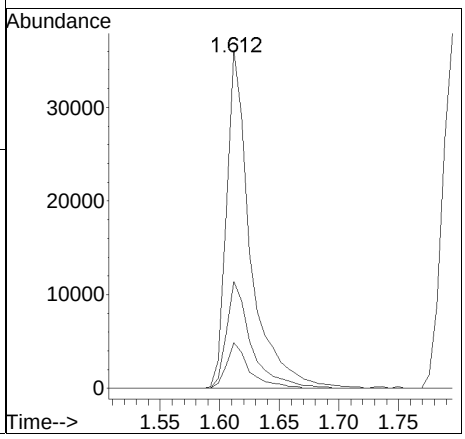


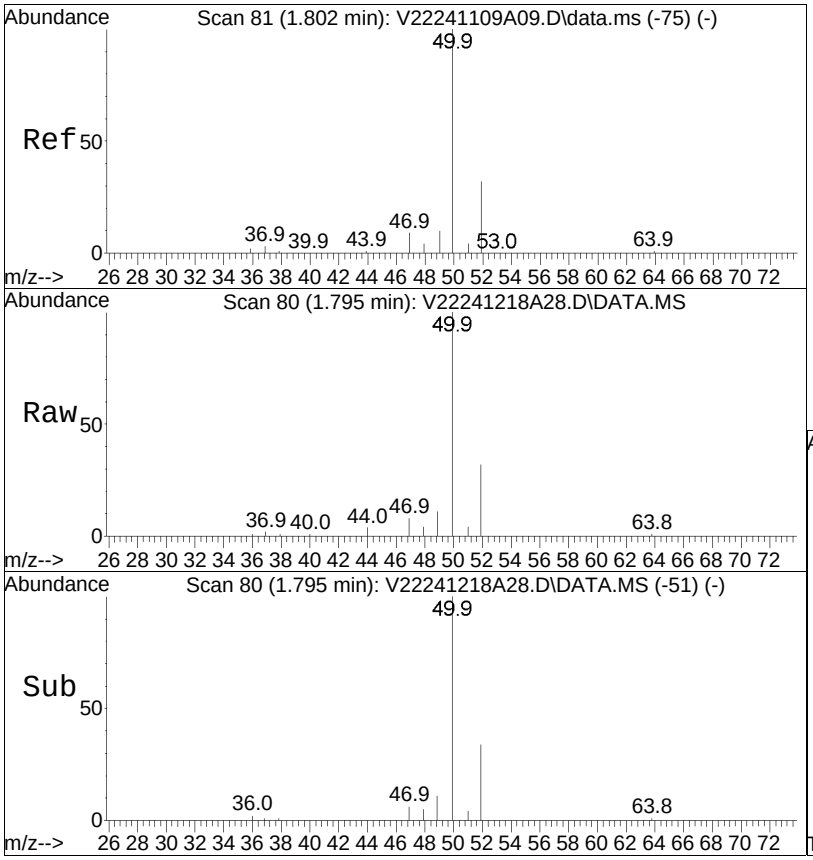


#2
Dichlorodifluoromethane
Concen: 6.94 ug/L
RT: 1.612 min Scan# 52
Delta R.T. -0.007 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion: 85 Resp: 50783

Ion	Ratio	Lower	Upper
85	100		
87	32.6	20.7	42.9
50	13.0	6.8	14.2

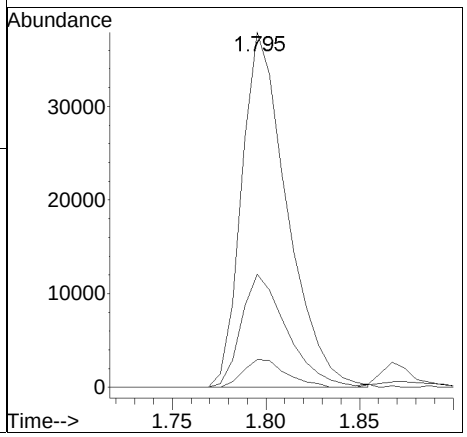


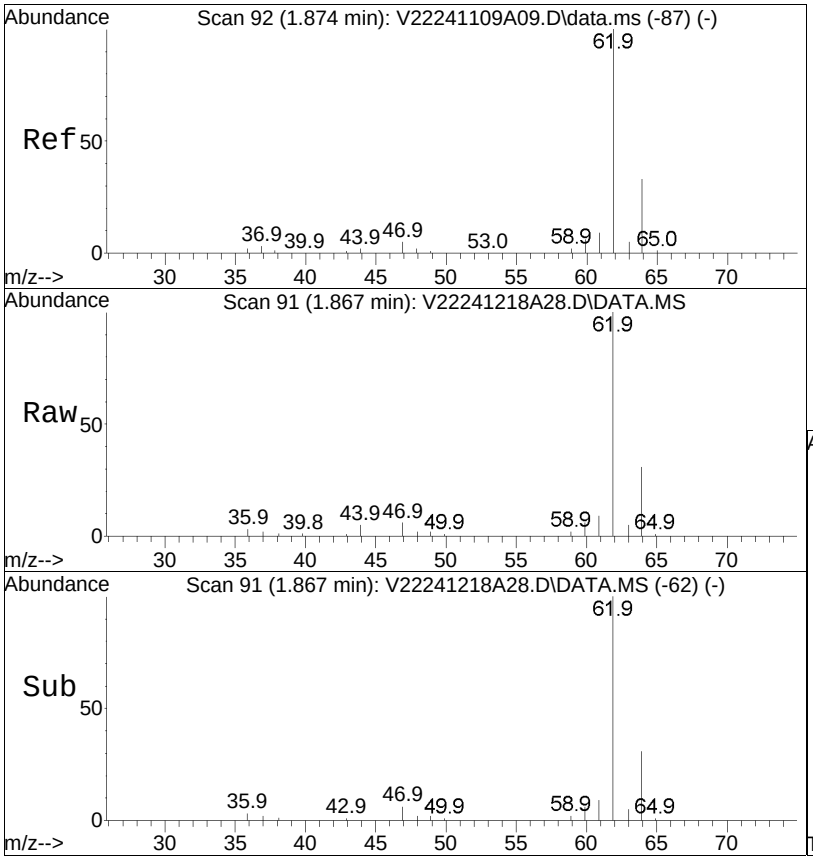


#3
Chloromethane
Concen: 10.22 ug/L
RT: 1.795 min Scan# 80
Delta R.T. -0.007 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion: 50 Resp: 63988

Ion	Ratio	Lower	Upper
50	100		
52	32.3	12.8	52.8
47	7.5	0.0	30.0

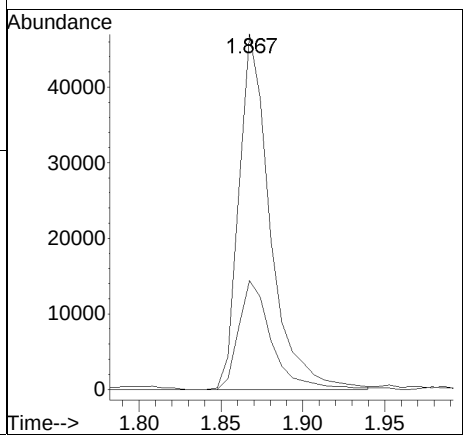


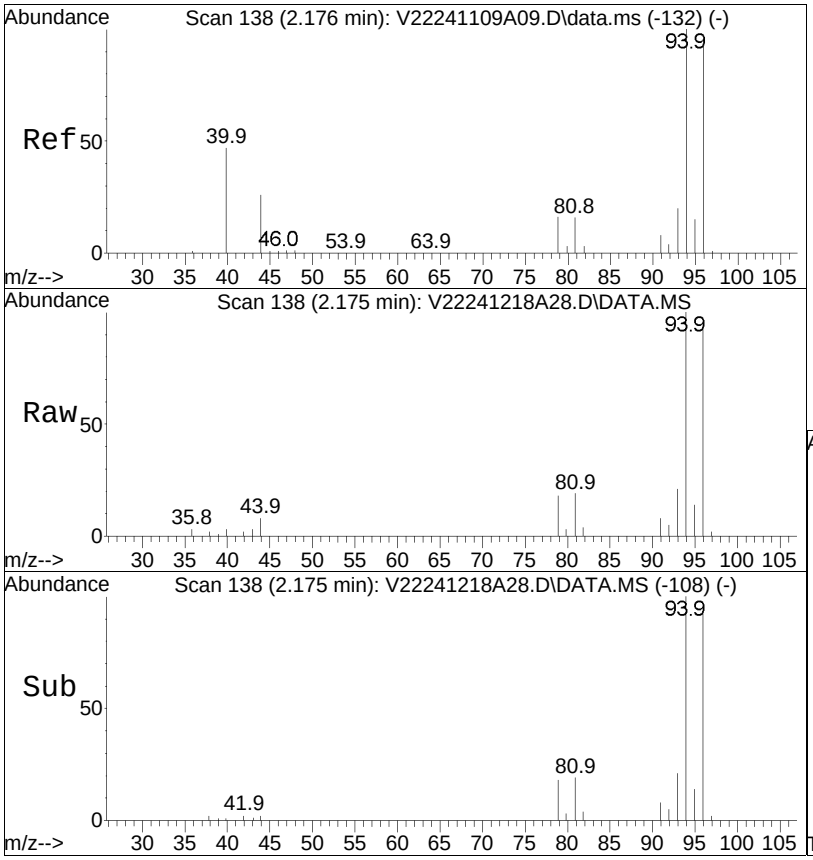


#4
Vinyl chloride
Concen: 7.49 ug/L
RT: 1.867 min Scan# 91
Delta R.T. -0.007 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion: 62 Resp: 62535

Ion	Ratio	Lower	Upper
62	100		
64	32.2	12.0	52.0

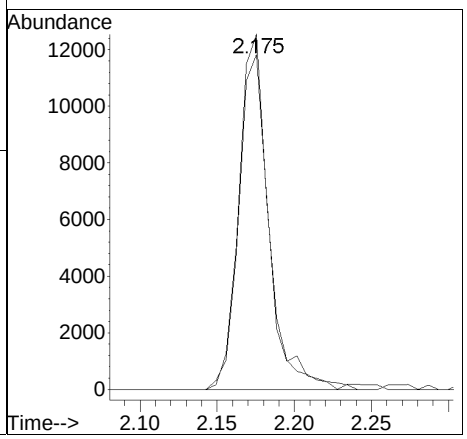


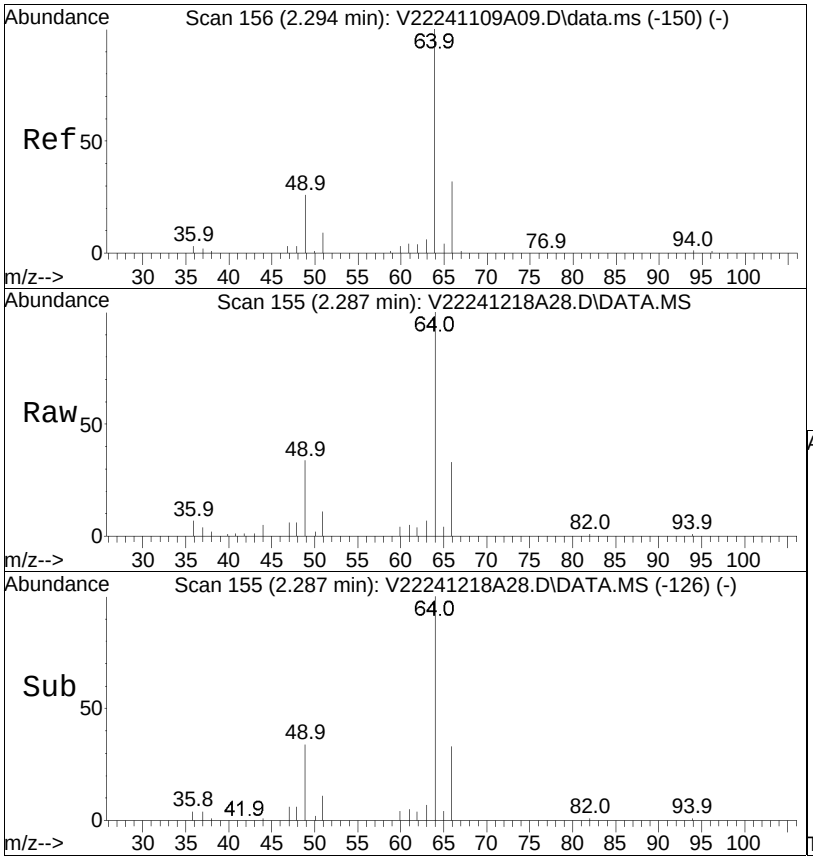


#5
Bromomethane
Concen: 2.80 ug/L
RT: 2.175 min Scan# 138
Delta R.T. -0.000 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion: 94 Resp: 16872

Ion	Ratio	Lower	Upper
94	100		
96	95.9	72.8	112.8

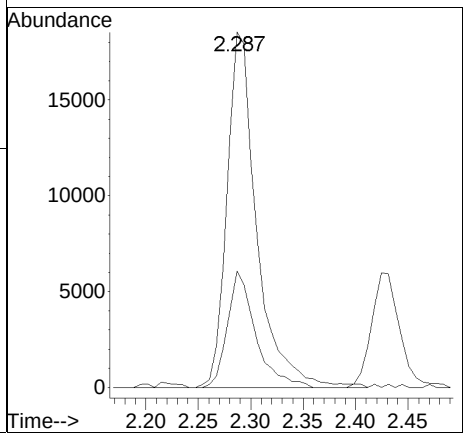


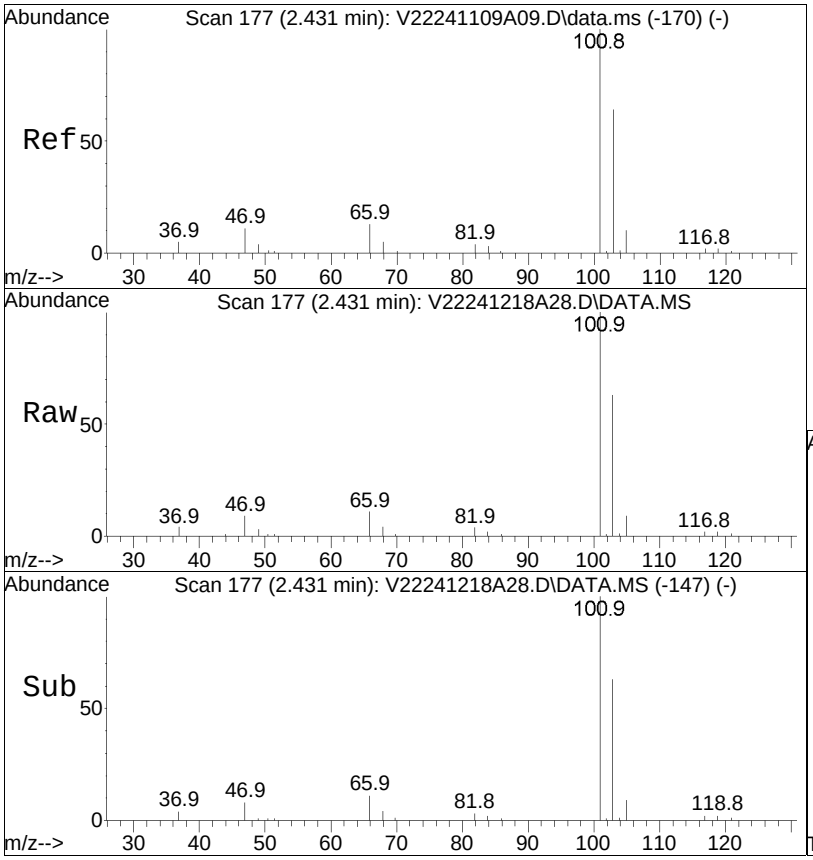


#6
Chloroethane
Concen: 6.40 ug/L
RT: 2.287 min Scan# 155
Delta R.T. -0.007 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion: 64 Resp: 36639

Ion	Ratio	Lower	Upper
64	100		
66	30.9	12.2	52.2

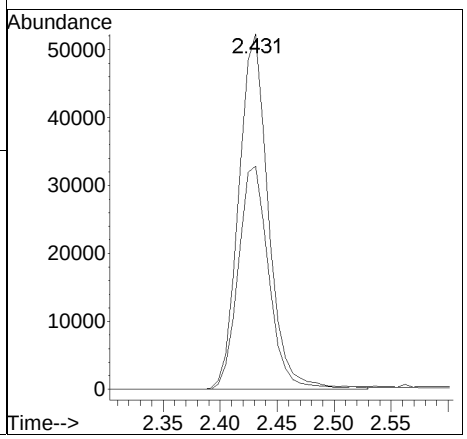


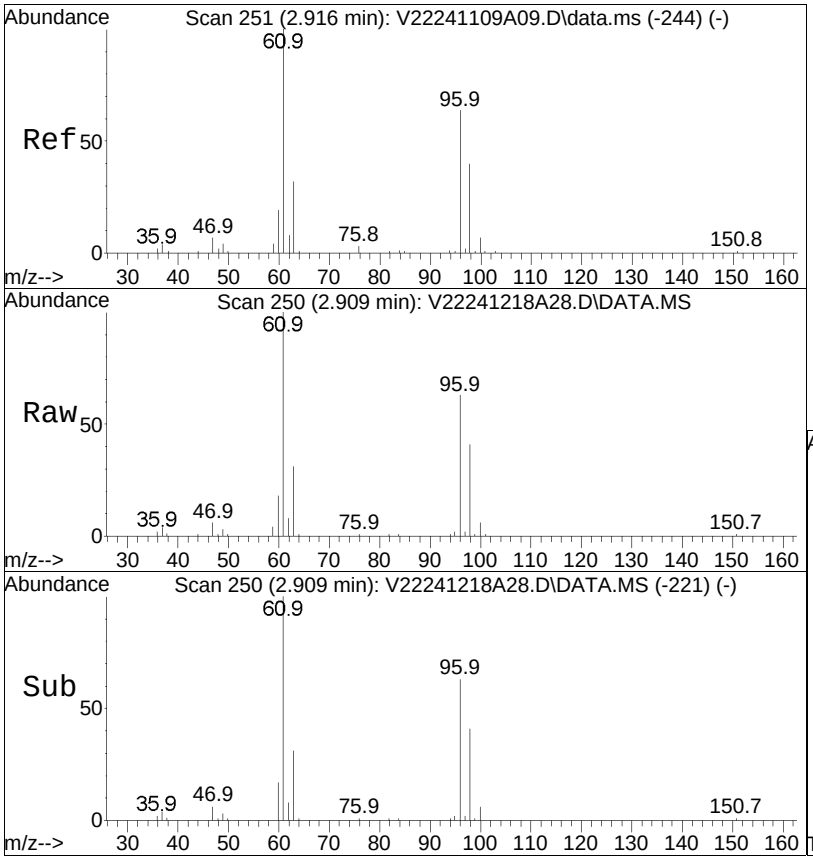


#7
Trichlorofluoromethane
Concen: 9.93 ug/L
RT: 2.431 min Scan# 177
Delta R.T. -0.000 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion:101 Resp: 94886

Ion	Ratio	Lower	Upper
101	100		
103	64.5	51.6	77.4

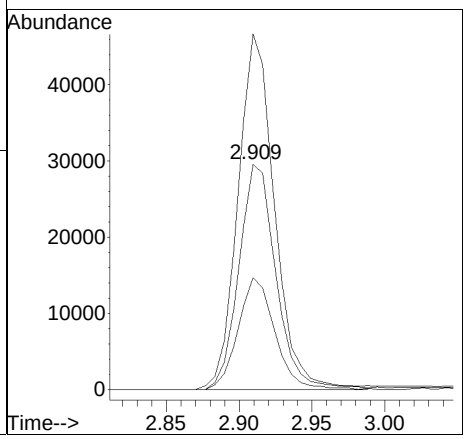


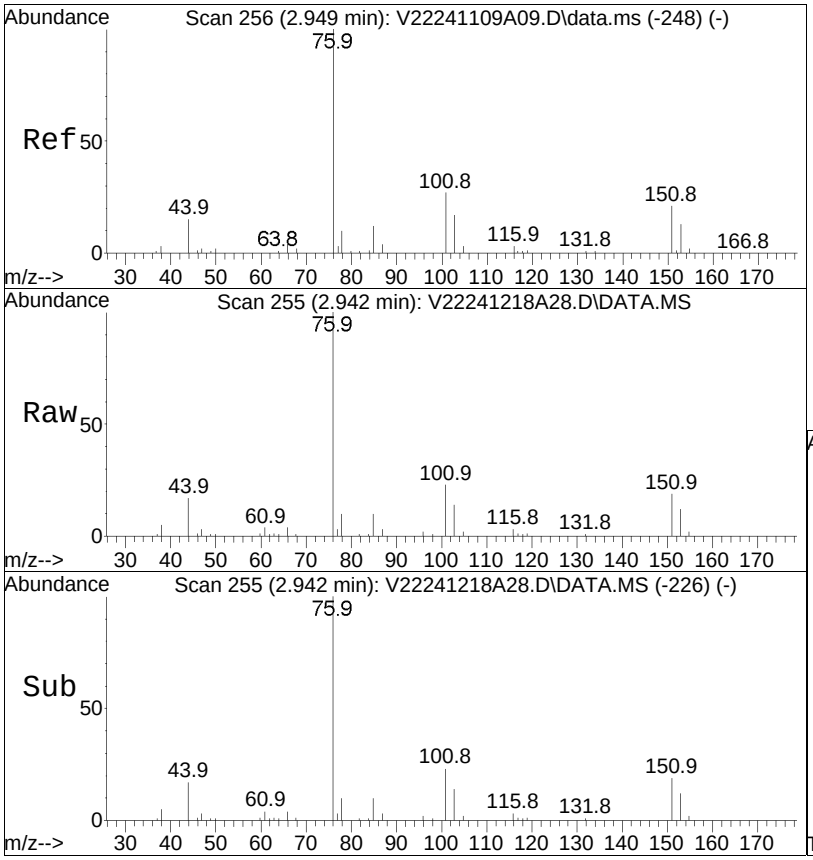


#10
1,1-Dichloroethene
Concen: 10.38 ug/L
RT: 2.909 min Scan# 250
Delta R.T. -0.007 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion: 96 Resp: 52337

Ion	Ratio	Lower	Upper
96	100		
61	156.1	117.0	175.4
63	49.1	37.8	56.6

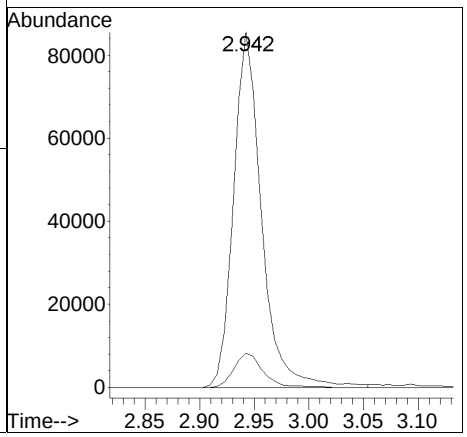


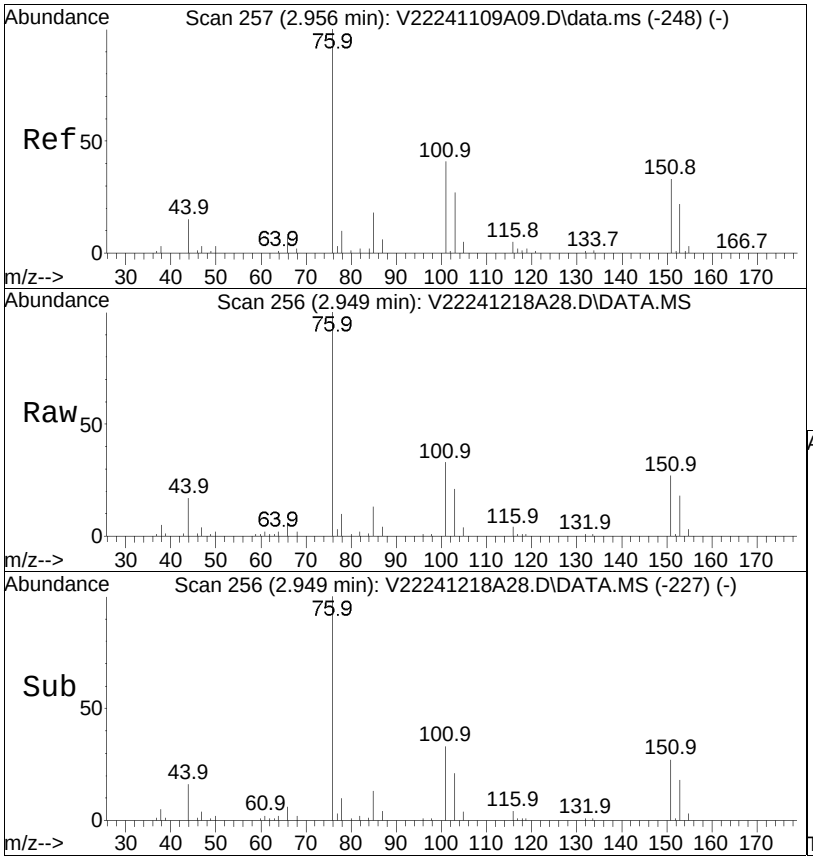


#11
Carbon disulfide
Concen: 9.94 ug/L
RT: 2.942 min Scan# 255
Delta R.T. -0.007 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion: 76 Resp: 152349

Ion	Ratio	Lower	Upper
76	100		
78	10.0	6.4	13.4

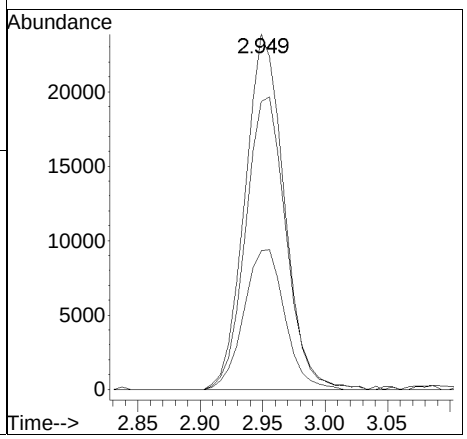


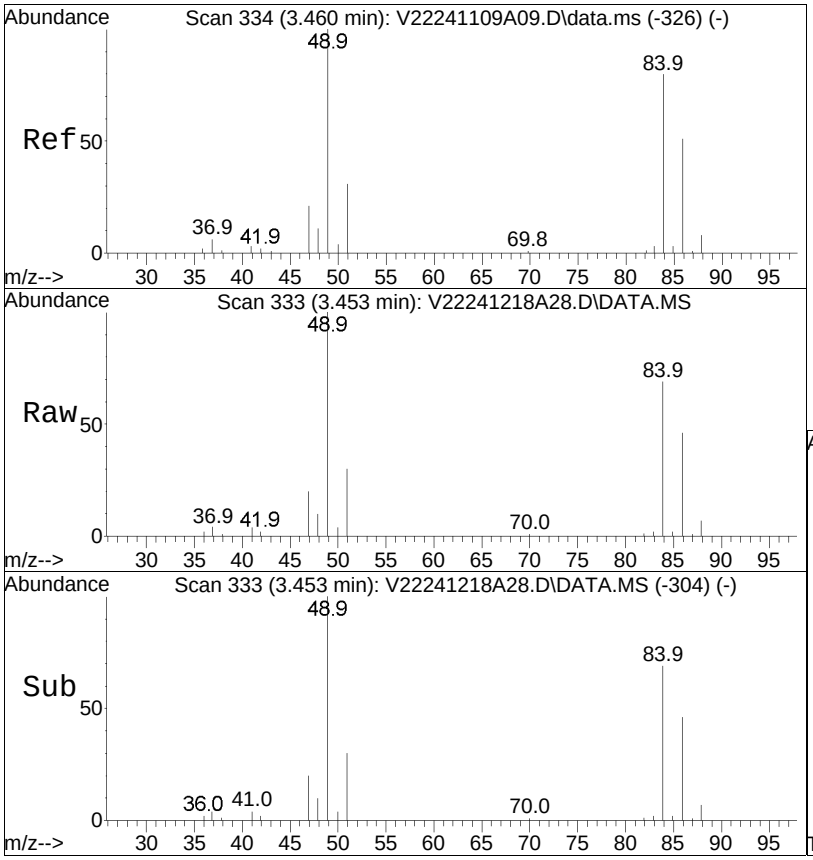


#12
Freon-113
Concen: 9.84 ug/L
RT: 2.949 min Scan# 256
Delta R.T. -0.007 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion:101 Resp: 52162

Ion	Ratio	Lower	Upper
101	100		
151	85.1	68.5	102.7
85	41.1	33.1	49.7

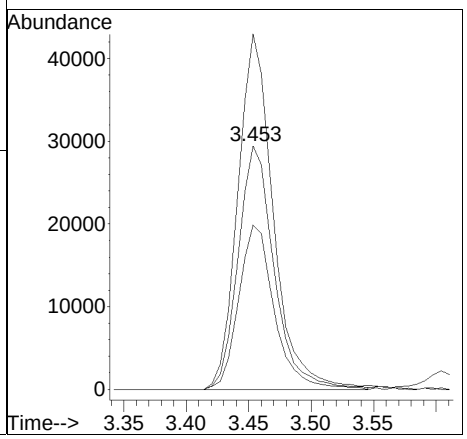


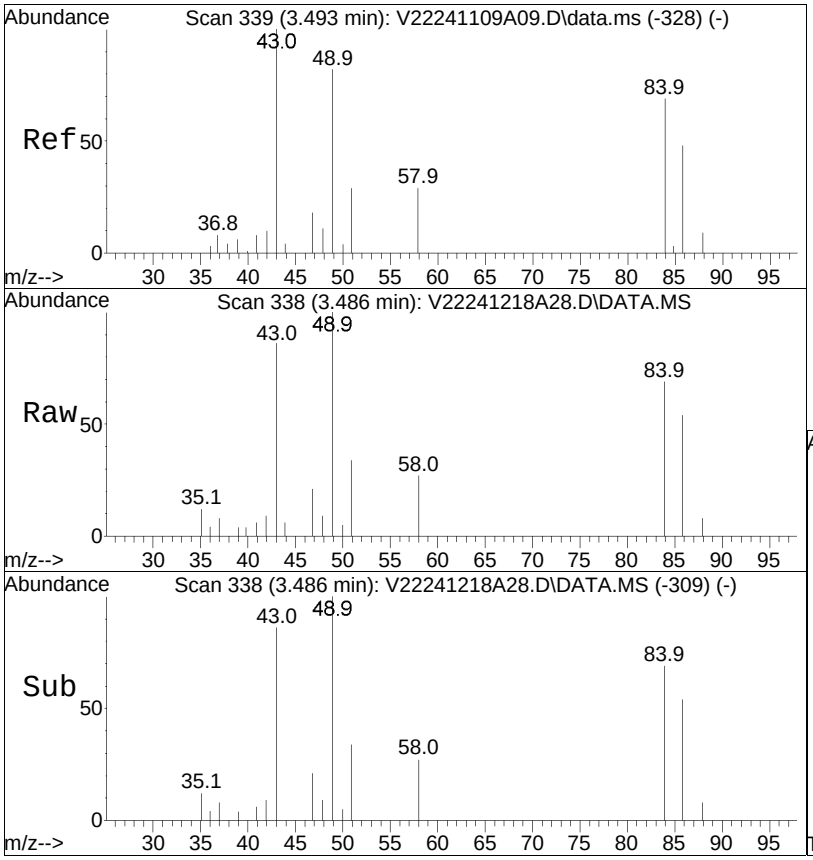


#15
Methylene chloride
Concen: 9.99 ug/L
RT: 3.453 min Scan# 333
Delta R.T. -0.007 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion: 84 Resp: 59179

Ion	Ratio	Lower	Upper
84	100		
86	66.8	41.5	86.3
49	144.2	68.8	143.0#

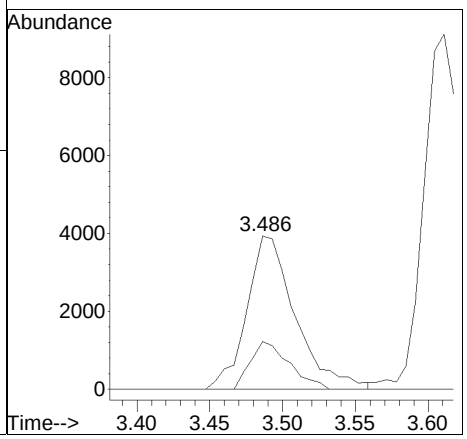


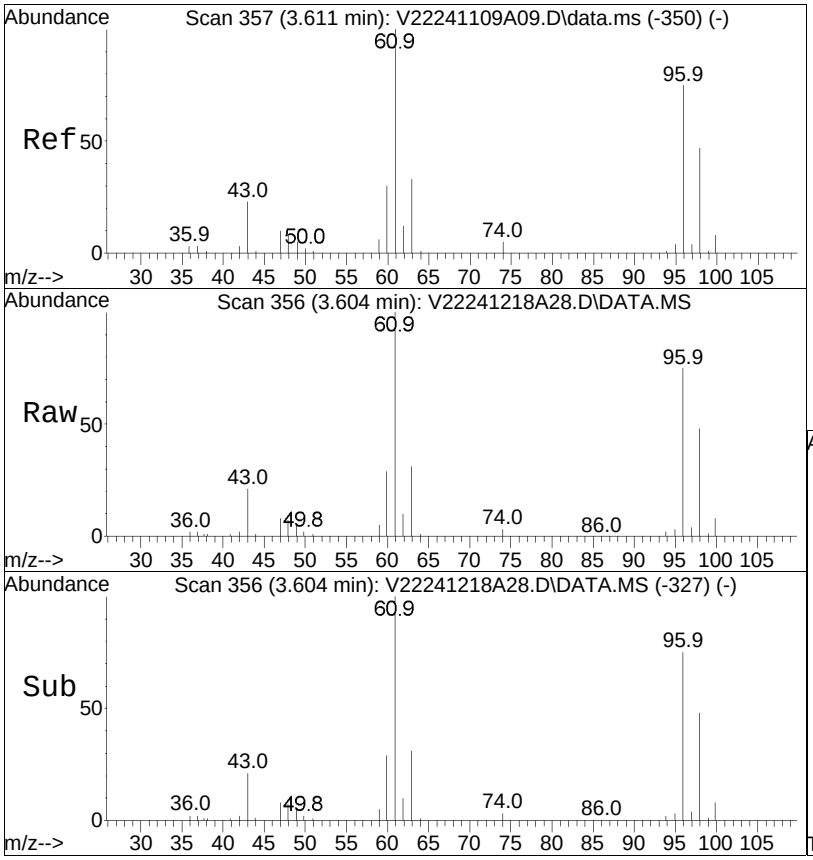


#17
Acetone
Concen: 10.73 ug/L
RT: 3.486 min Scan# 338
Delta R.T. -0.007 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion: 43 Resp: 9158

Ion	Ratio	Lower	Upper
43	100		
58	25.1	23.1	34.7

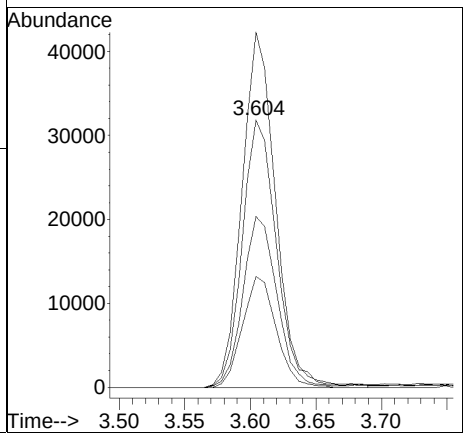


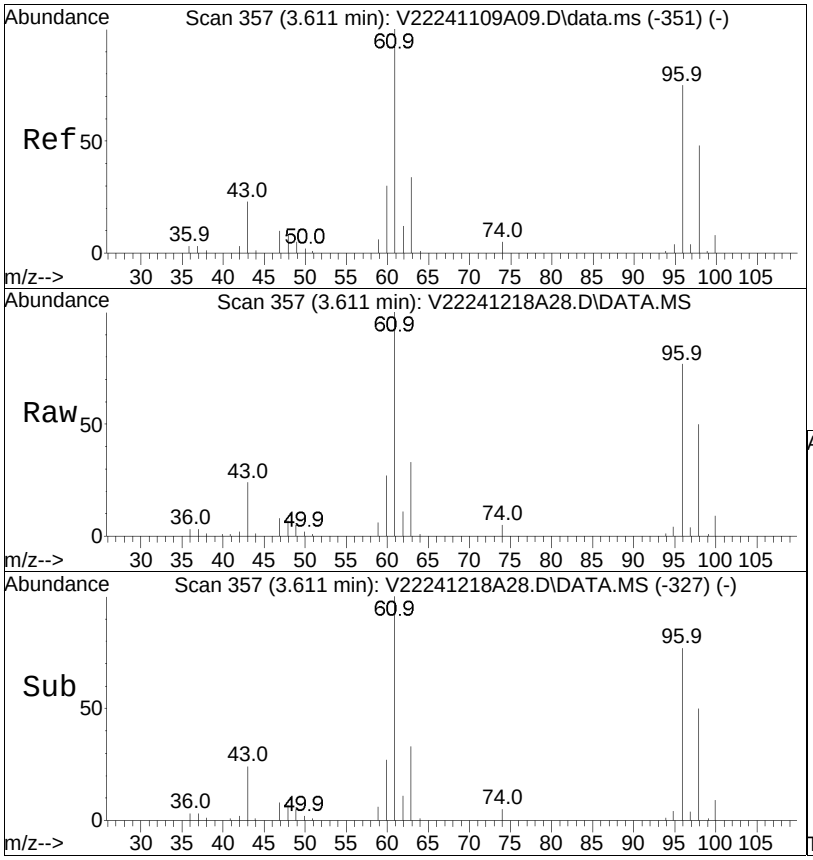


#18
trans-1,2-Dichloroethene
Concen: 10.50 ug/L
RT: 3.604 min Scan# 356
Delta R.T. -0.007 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion: 96 Resp: 58127

Ion	Ratio	Lower	Upper
96	100		
61	130.3	81.6	169.6
98	63.5	41.8	86.8
63	40.6	26.3	54.7

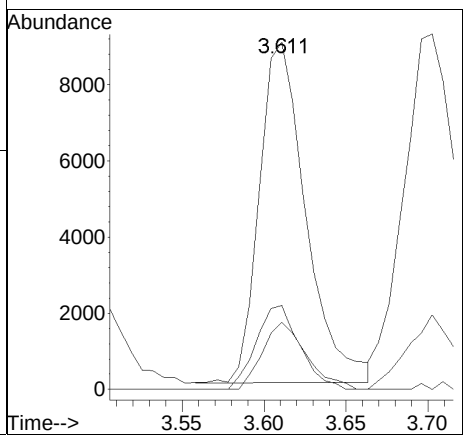


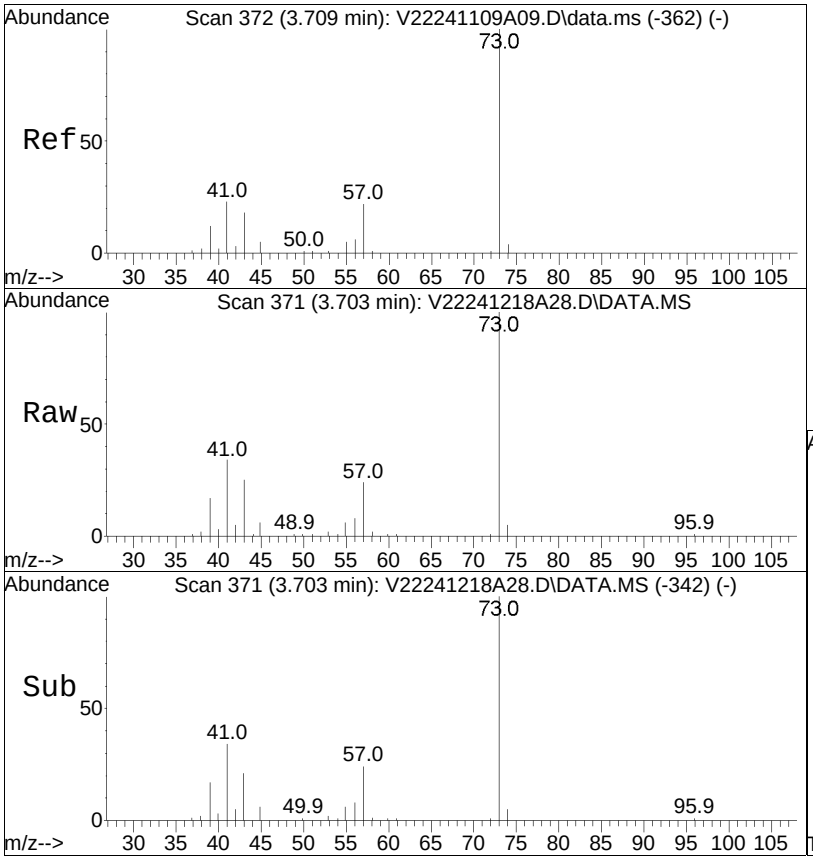


#19
Methyl acetate
Concen: 8.50 ug/L
RT: 3.611 min Scan# 357
Delta R.T. -0.000 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion: 43 Resp: 17637

Ion	Ratio	Lower	Upper
43	100		
74	18.6	21.8	32.6#
59	23.1	18.1	27.1

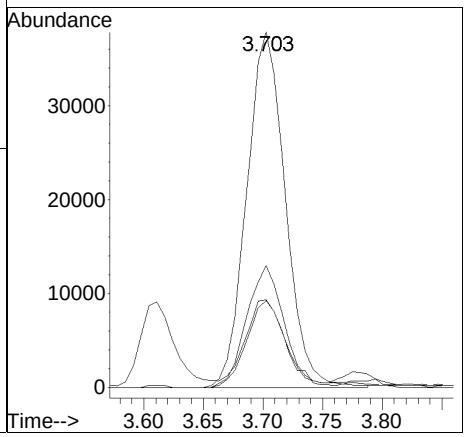


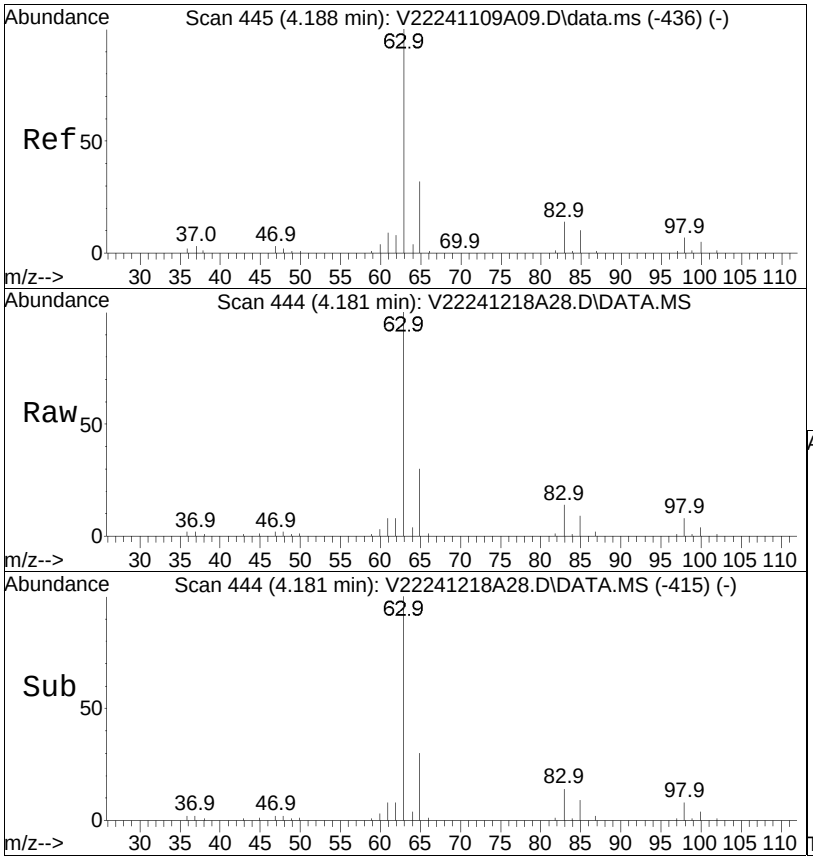


#21
Methyl tert-butyl ether
Concen: 8.76 ug/L
RT: 3.703 min Scan# 371
Delta R.T. -0.007 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion: 73 Resp: 85109

Ion	Ratio	Lower	Upper
73	100		
57	24.6	13.6	28.2
43	24.3	12.7	26.5
41	33.5	11.4	23.8#

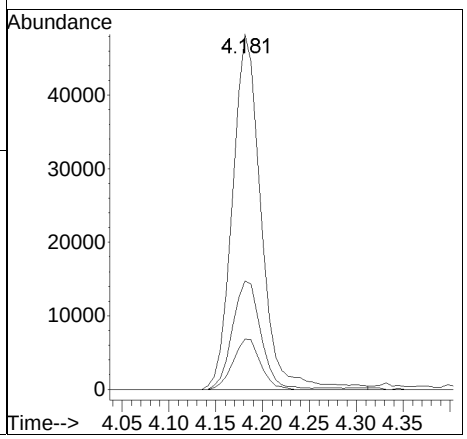


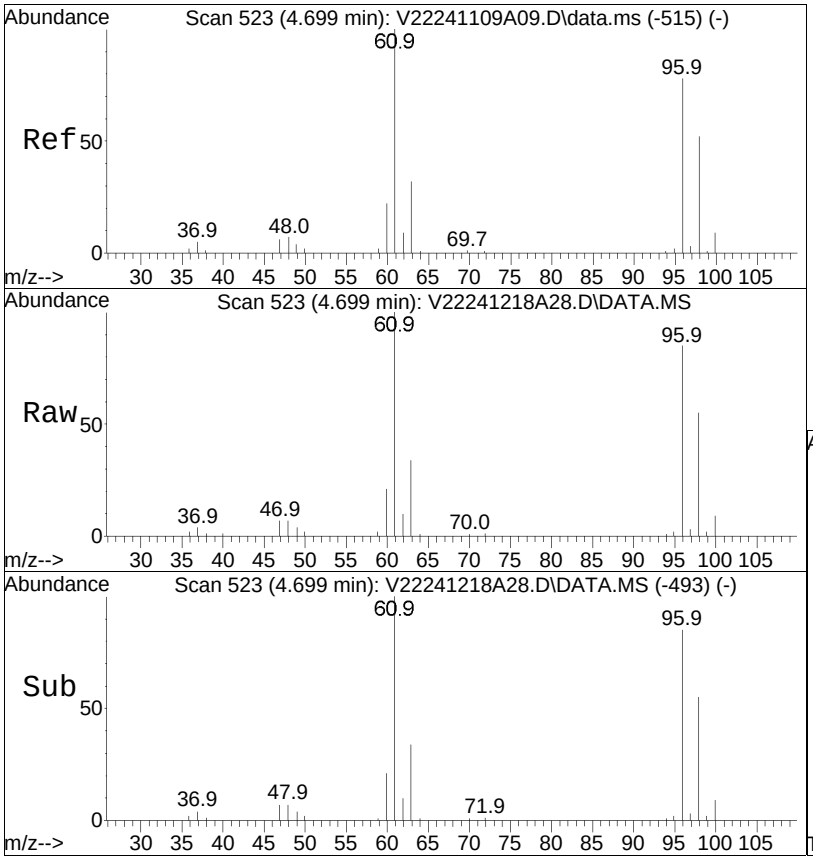


#25
1,1-Dichloroethane
Concen: 10.27 ug/L
RT: 4.181 min Scan# 444
Delta R.T. -0.007 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion: 63 Resp: 102945

Ion	Ratio	Lower	Upper
63	100		
65	30.1	11.9	51.9
83	13.5	0.0	34.2

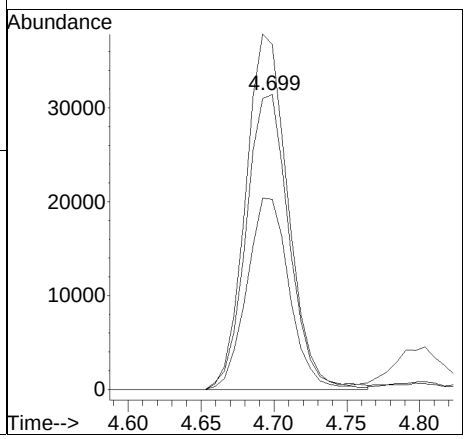


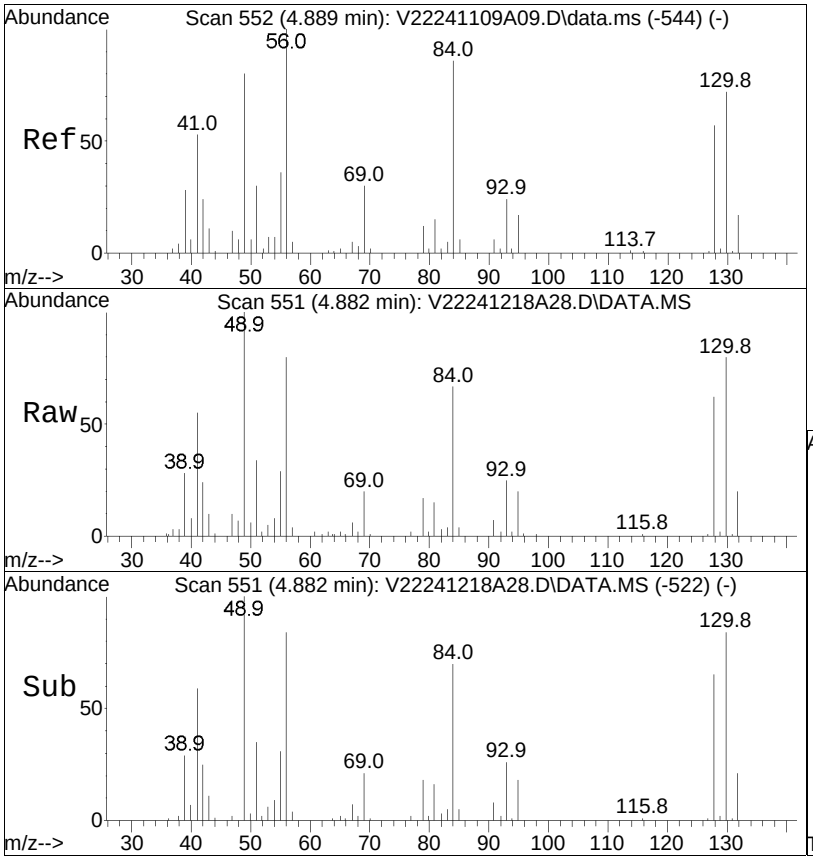


#30
cis-1,2-Dichloroethene
Concen: 10.53 ug/L
RT: 4.699 min Scan# 523
Delta R.T. -0.000 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion: 96 Resp: 64510

Ion	Ratio	Lower	Upper
96	100		
61	118.5	90.3	135.5
98	64.1	50.8	76.2

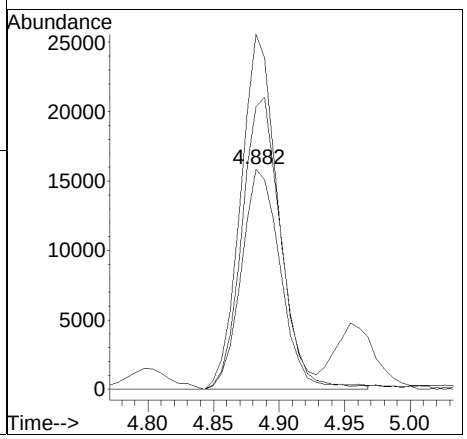


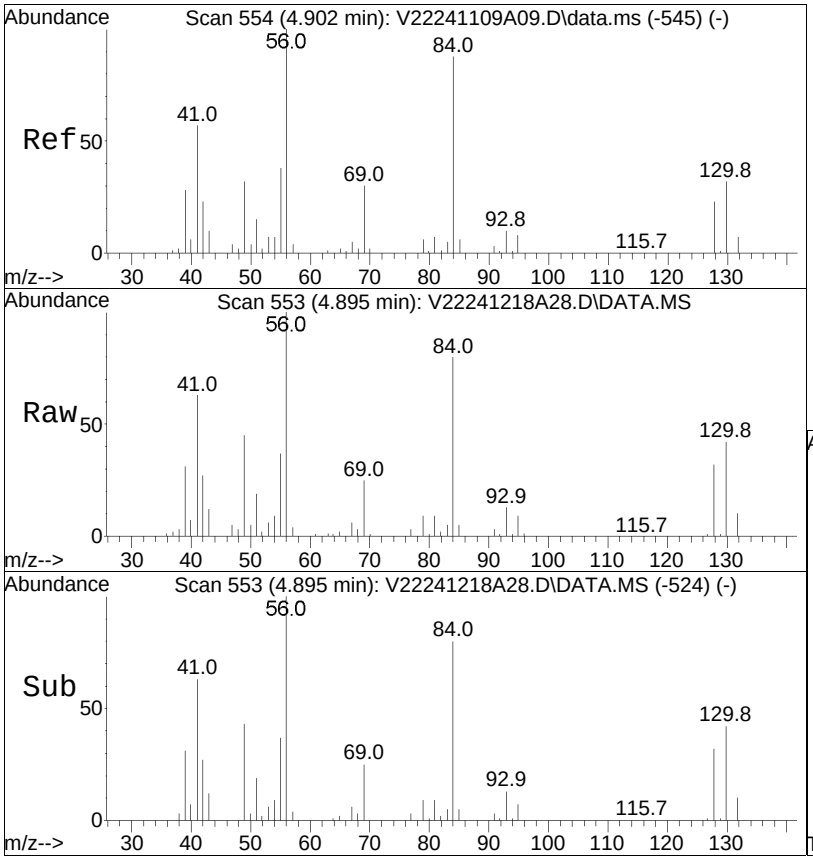


#32
Bromochloromethane
Concen: 10.78 ug/L
RT: 4.882 min Scan# 551
Delta R.T. -0.007 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion:128 Resp: 33193

Ion	Ratio	Lower	Upper
128	100		
49	151.7	104.4	156.6
130	132.1	103.9	155.9

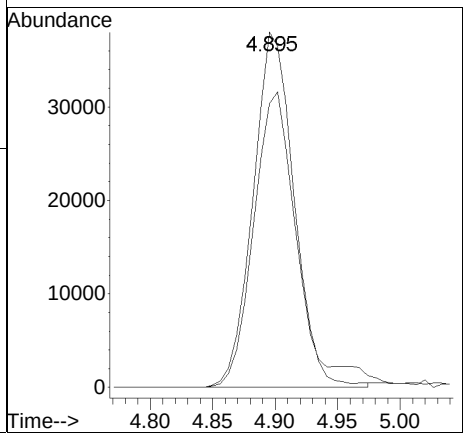


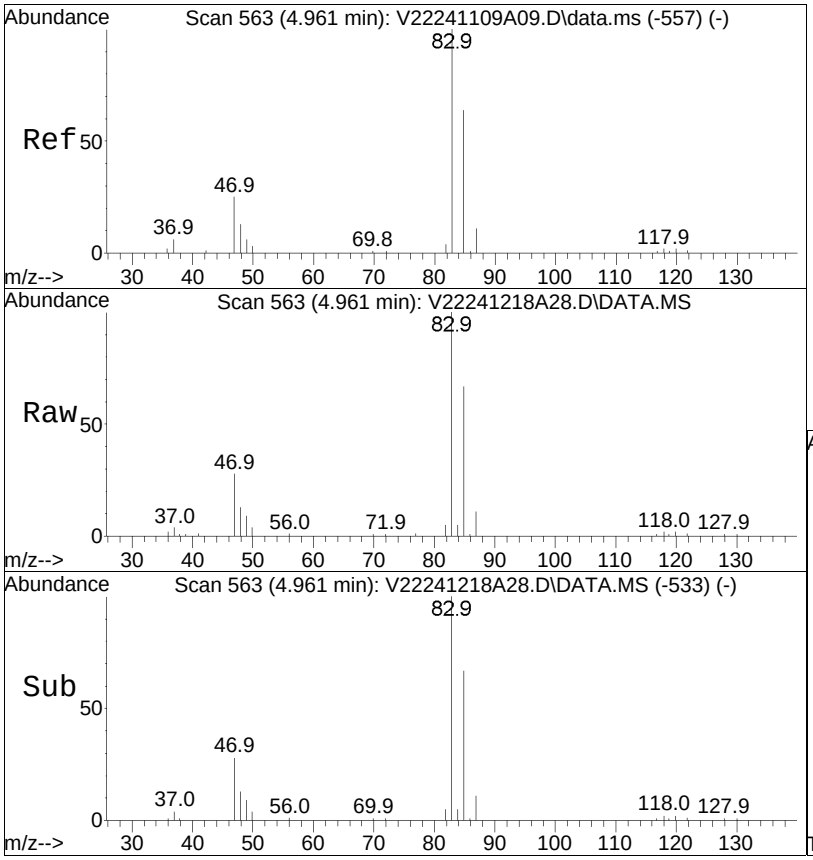


#33
Cyclohexane
Concen: 9.12 ug/L
RT: 4.895 min Scan# 553
Delta R.T. -0.007 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion: 56 Resp: 87040

Ion	Ratio	Lower	Upper
56	100		
84	89.4	66.0	137.2

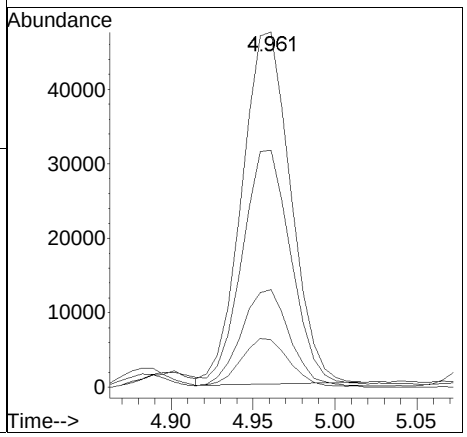


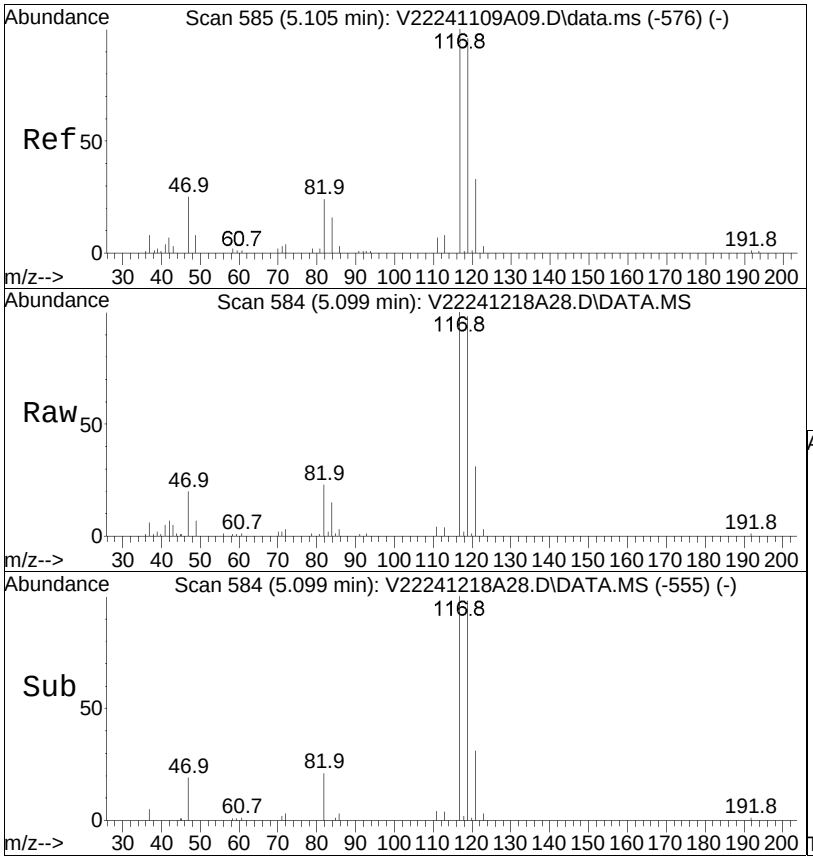


#34
Chloroform
Concen: 9.80 ug/L
RT: 4.961 min Scan# 563
Delta R.T. -0.000 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion: 83 Resp: 98265

Ion	Ratio	Lower	Upper
83	100		
85	66.4	42.4	88.2
47	26.6	14.0	29.0
48	14.1	6.9	14.3

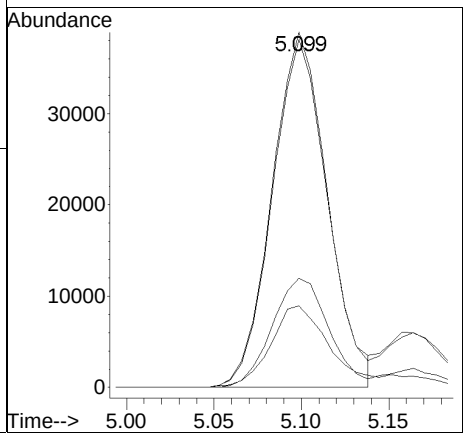


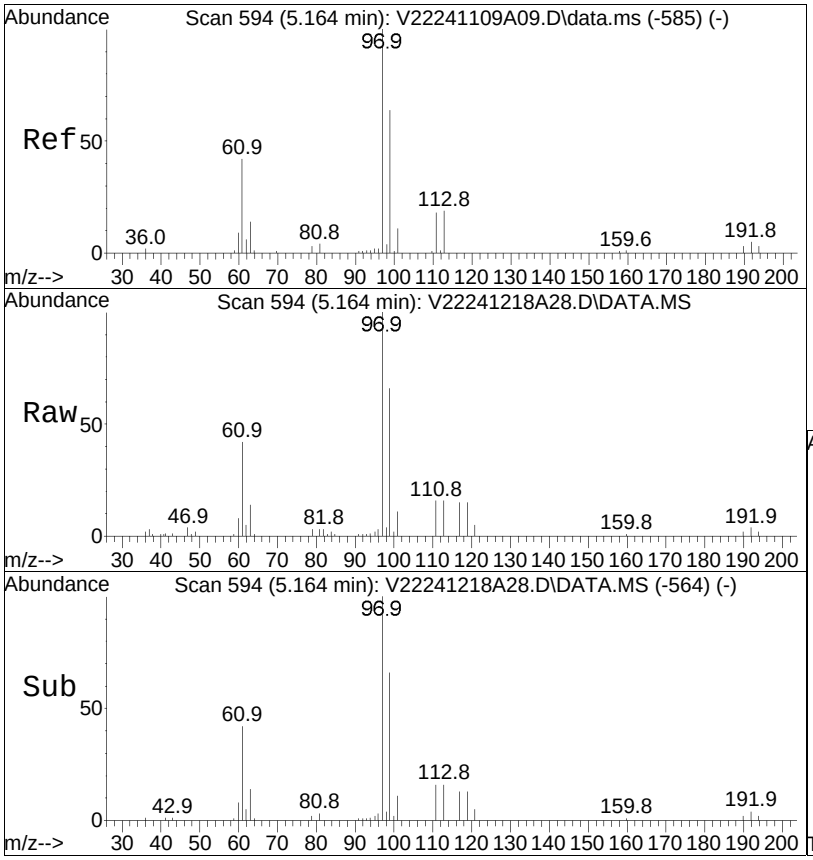


#36
Carbon tetrachloride
Concen: 10.58 ug/L
RT: 5.099 min Scan# 584
Delta R.T. -0.007 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion:117 Resp: 85803

Ion	Ratio	Lower	Upper
117	100		
119	97.2	62.1	129.1
121	31.5	20.3	42.3
82	24.6	15.4	32.0

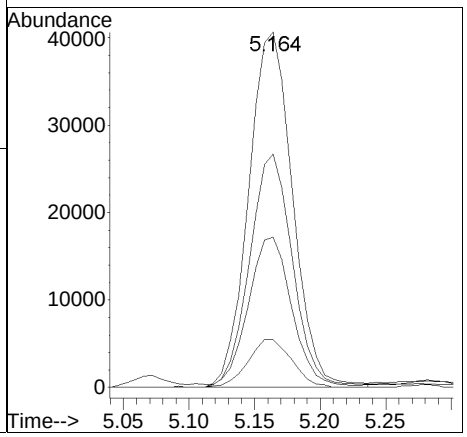


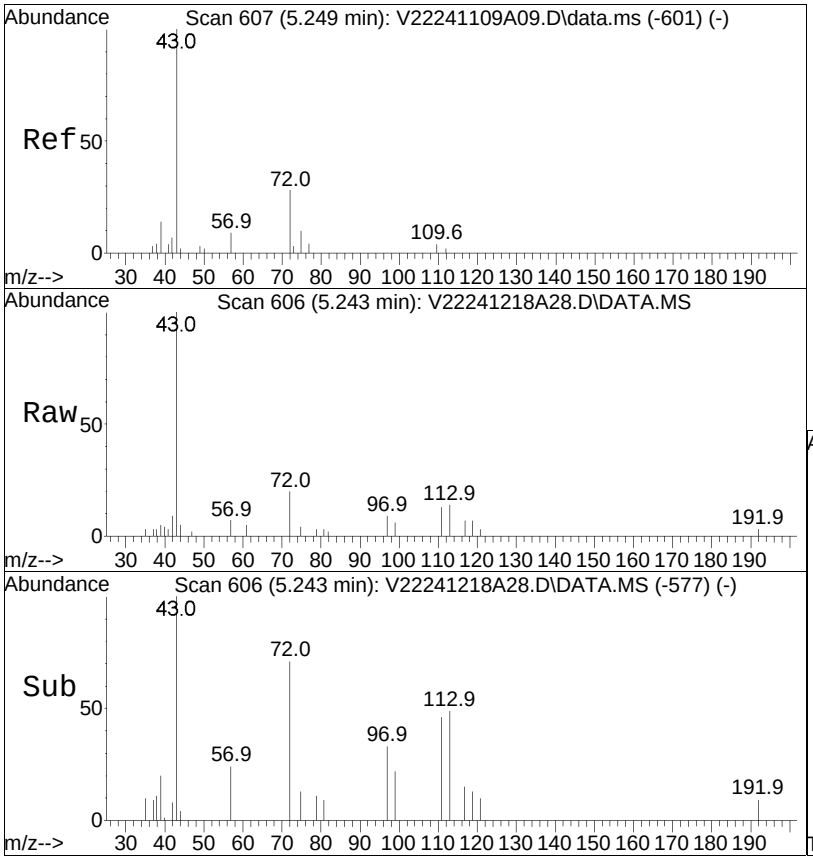


#39
1,1,1-Trichloroethane
Concen: 10.40 ug/L
RT: 5.164 min Scan# 594
Delta R.T. -0.000 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion: 97 Resp: 95008

Ion	Ratio	Lower	Upper
97	100		
99	64.0	42.4	88.0
61	41.4	26.0	54.0
63	13.5	8.3	17.3

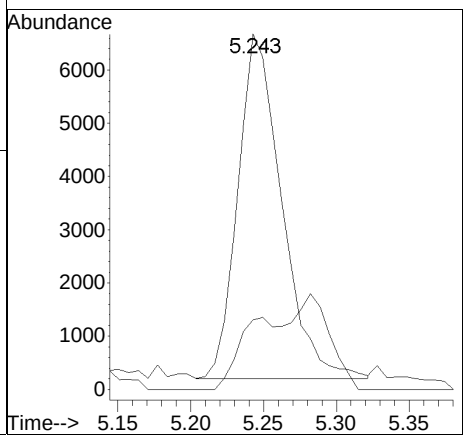


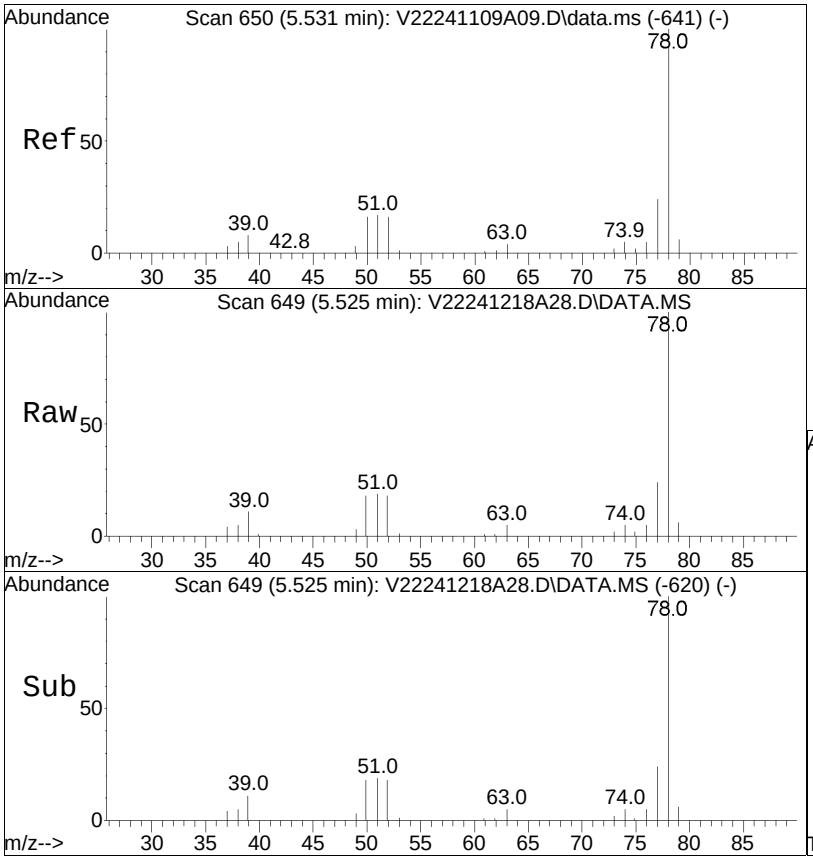


#41
2-Butanone
Concen: 11.16 ug/L
RT: 5.243 min Scan# 606
Delta R.T. -0.007 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion: 43 Resp: 13530

Ion	Ratio	Lower	Upper
43	100		
72	16.6	45.8	68.8#

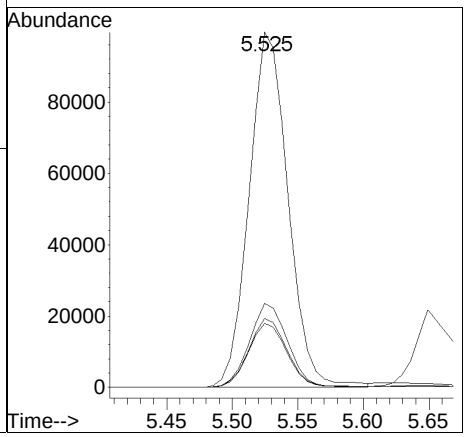


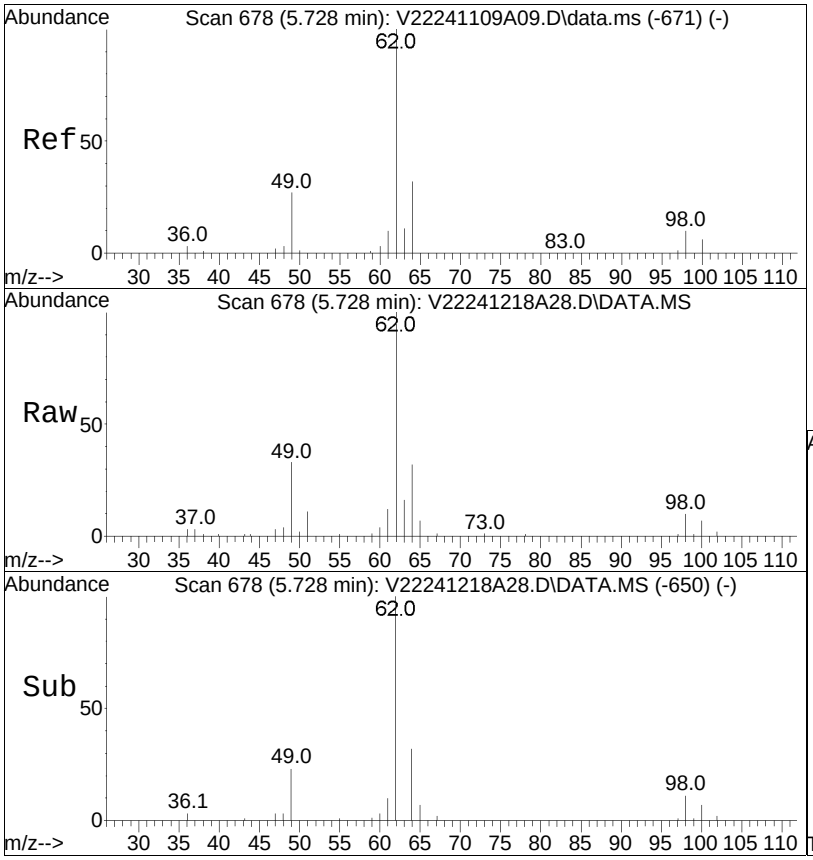


#44
Benzene
Concen: 9.43 ug/L
RT: 5.525 min Scan# 649
Delta R.T. -0.007 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion: 78 Resp: 205708

Ion	Ratio	Lower	Upper
78	100		
77	23.2	15.4	32.0
51	19.1	9.8	20.4
52	18.1	9.2	19.2

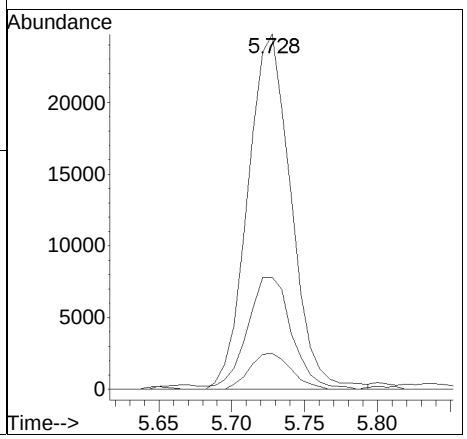


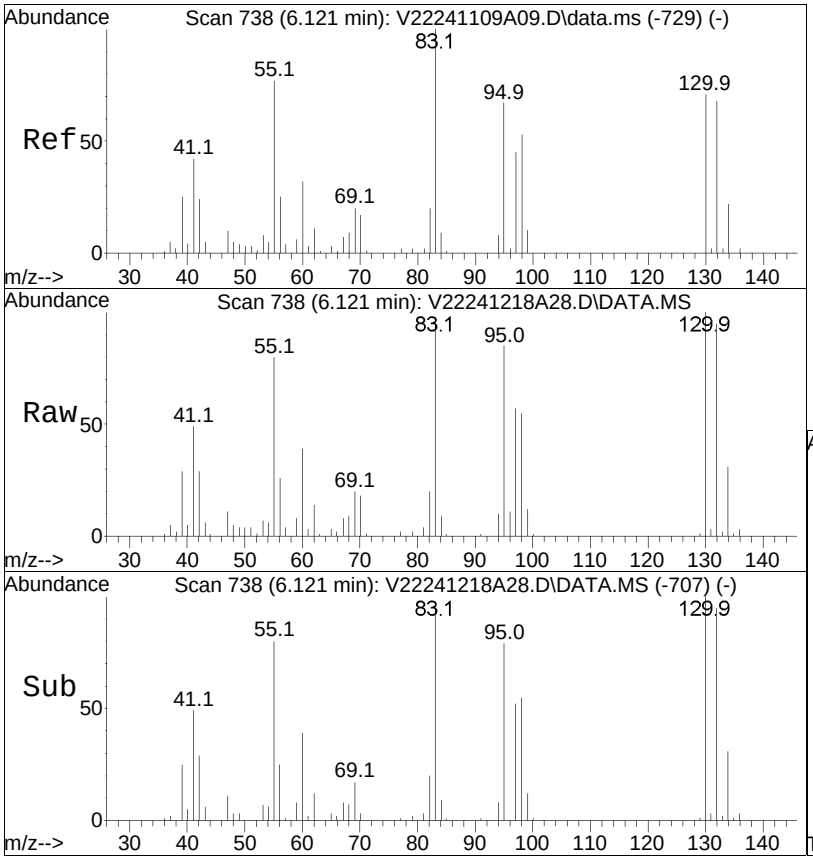


#47
1,2-Dichloroethane
Concen: 9.64 ug/L
RT: 5.728 min Scan# 678
Delta R.T. -0.000 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion: 62 Resp: 51058

Ion	Ratio	Lower	Upper
62	100		
64	32.5	12.3	52.3
98	9.8	0.0	30.3

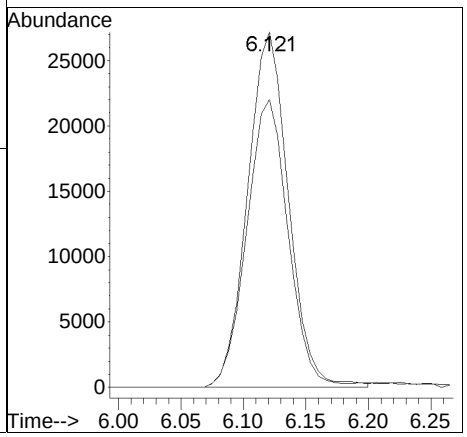


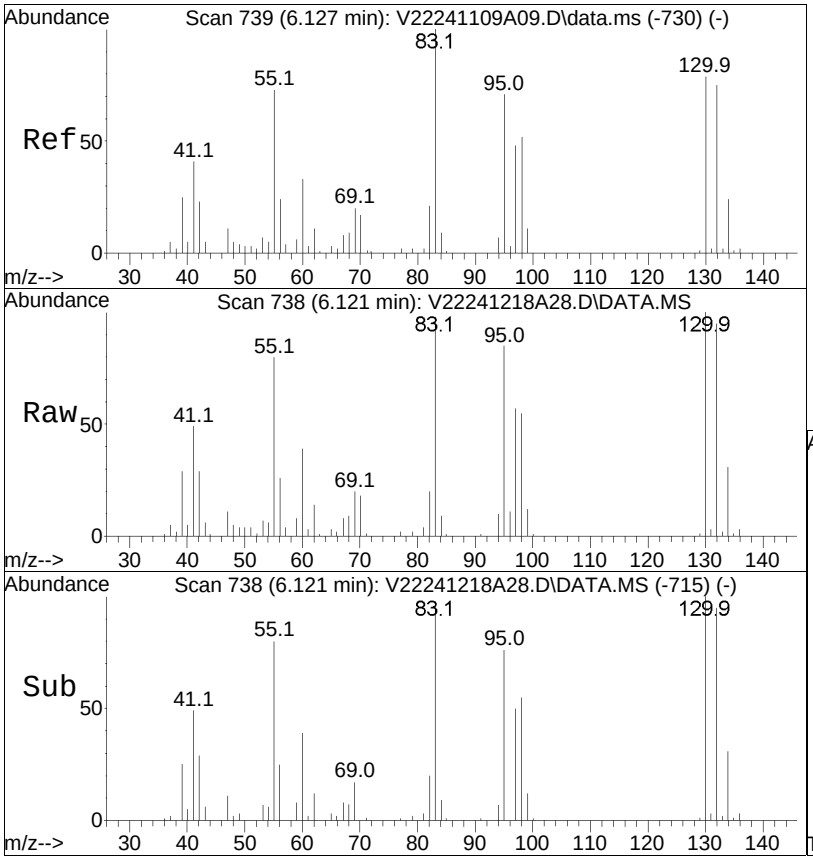


#50
Methyl cyclohexane
Concen: 7.75 ug/L
RT: 6.121 min Scan# 738
Delta R.T. -0.000 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion: 83 Resp: 61949

Ion	Ratio	Lower	Upper
83	100		
55	81.9	55.4	83.2

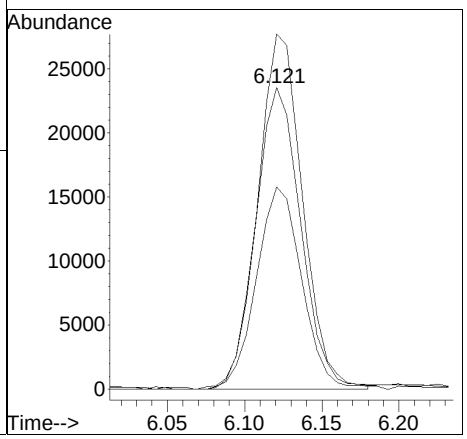


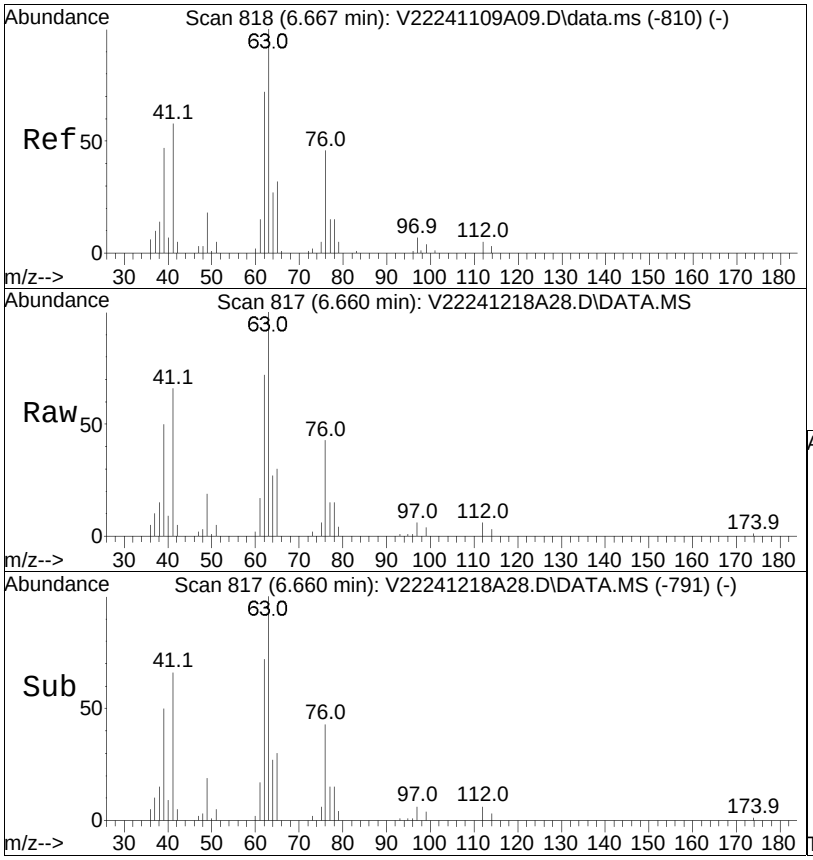


#51
Trichloroethene
Concen: 9.49 ug/L
RT: 6.121 min Scan# 738
Delta R.T. -0.007 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion: 95 Resp: 48130

Ion	Ratio	Lower	Upper
95	100		
97	67.4	55.0	82.4
130	117.0	89.2	133.8

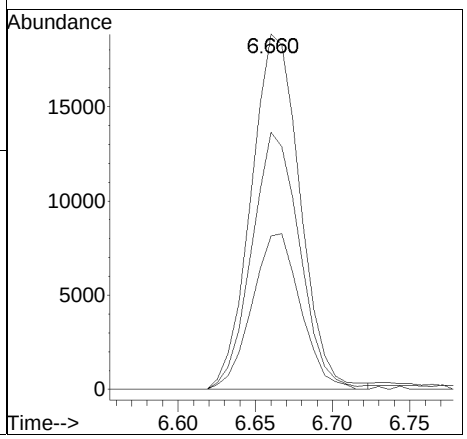


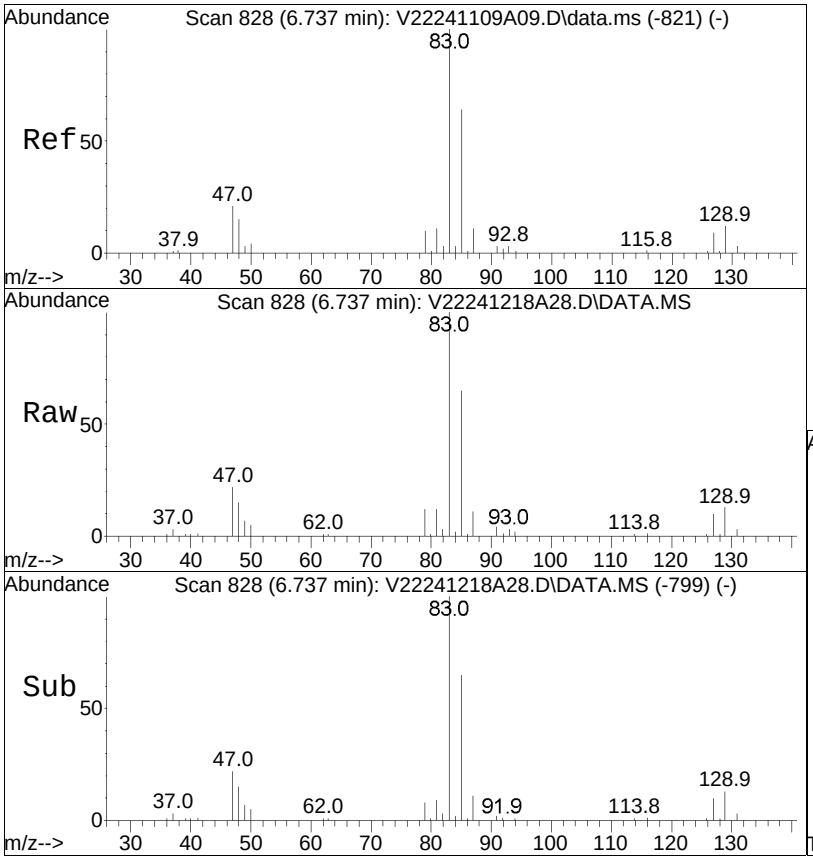


#54
1,2-Dichloropropane
Concen: 9.49 ug/L
RT: 6.660 min Scan# 817
Delta R.T. -0.007 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion: 63 Resp: 41595

Ion	Ratio	Lower	Upper
63	100		
62	70.6	56.9	85.3
76	43.4	35.8	53.8

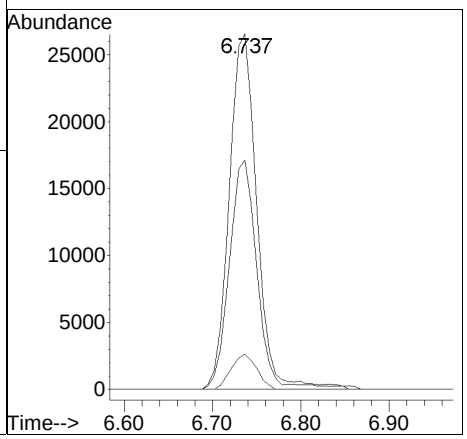


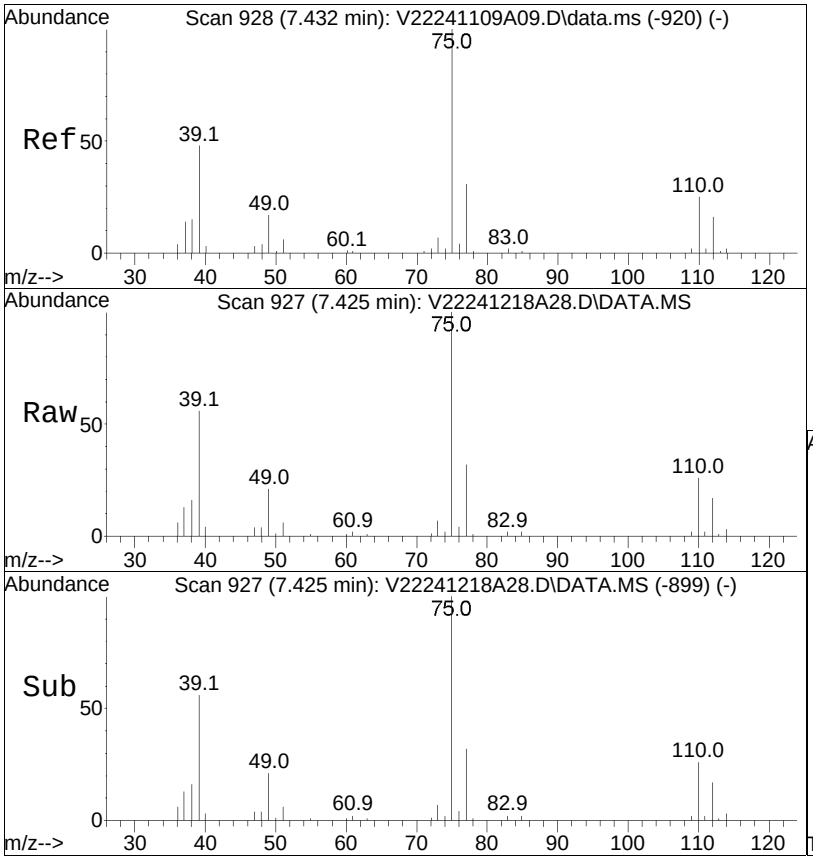


#57
Bromodichloromethane
Concen: 9.53 ug/L
RT: 6.737 min Scan# 828
Delta R.T. -0.000 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion: 83 Resp: 58003

Ion	Ratio	Lower	Upper
83	100		
85	64.4	51.6	77.4
127	9.1	7.4	11.0

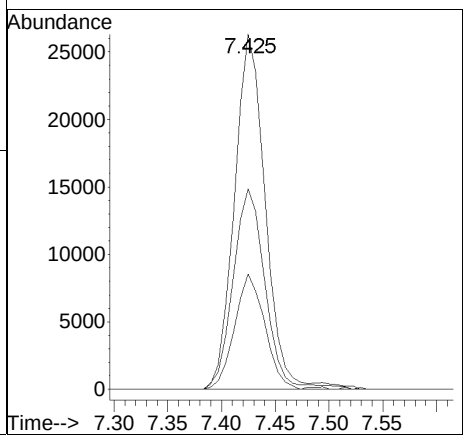


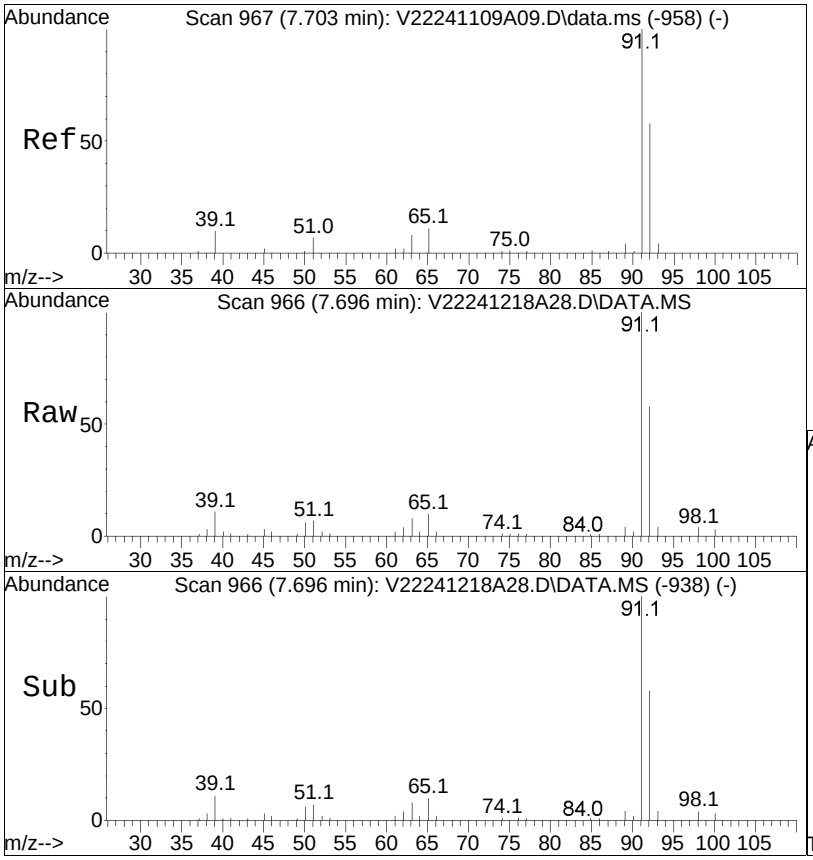


#61
cis-1,3-Dichloropropene
Concen: 8.33 ug/L
RT: 7.425 min Scan# 927
Delta R.T. -0.007 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion: 75 Resp: 52814

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.6	38.4
39	58.6	35.4	53.0#

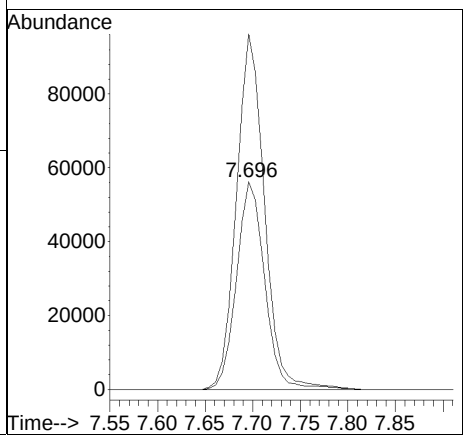


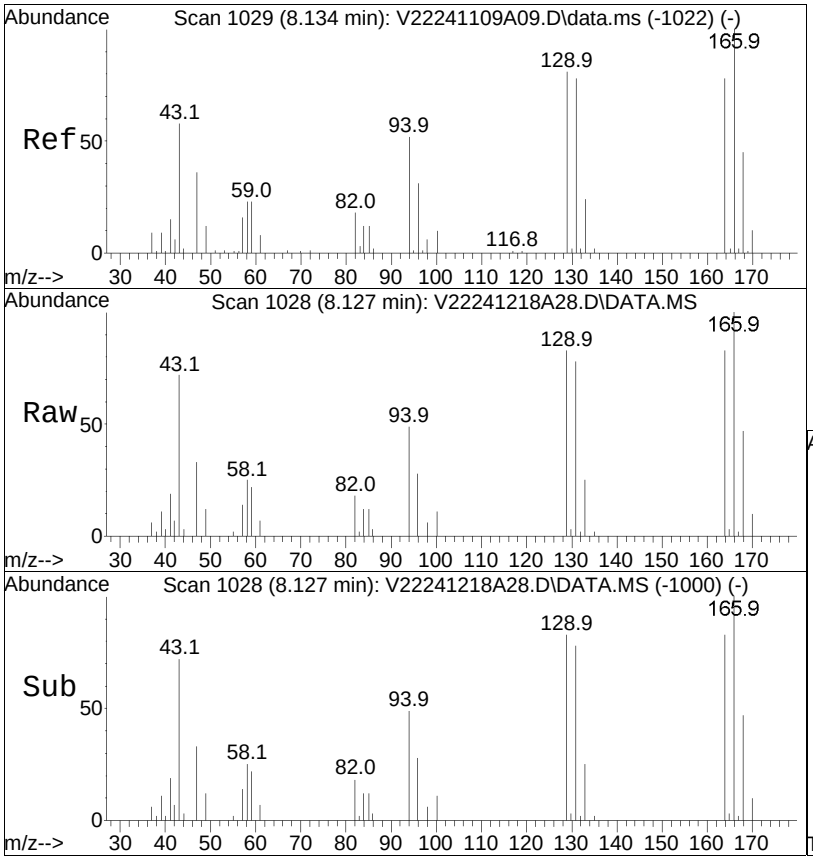


#64
Toluene
Concen: 9.50 ug/L
RT: 7.696 min Scan# 966
Delta R.T. -0.007 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion: 92 Resp: 116041

Ion	Ratio	Lower	Upper
92	100		
91	169.5	137.0	205.6

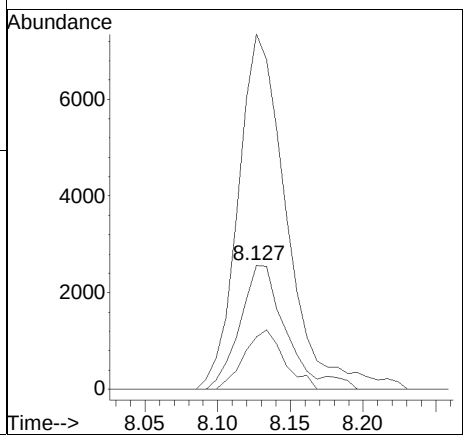


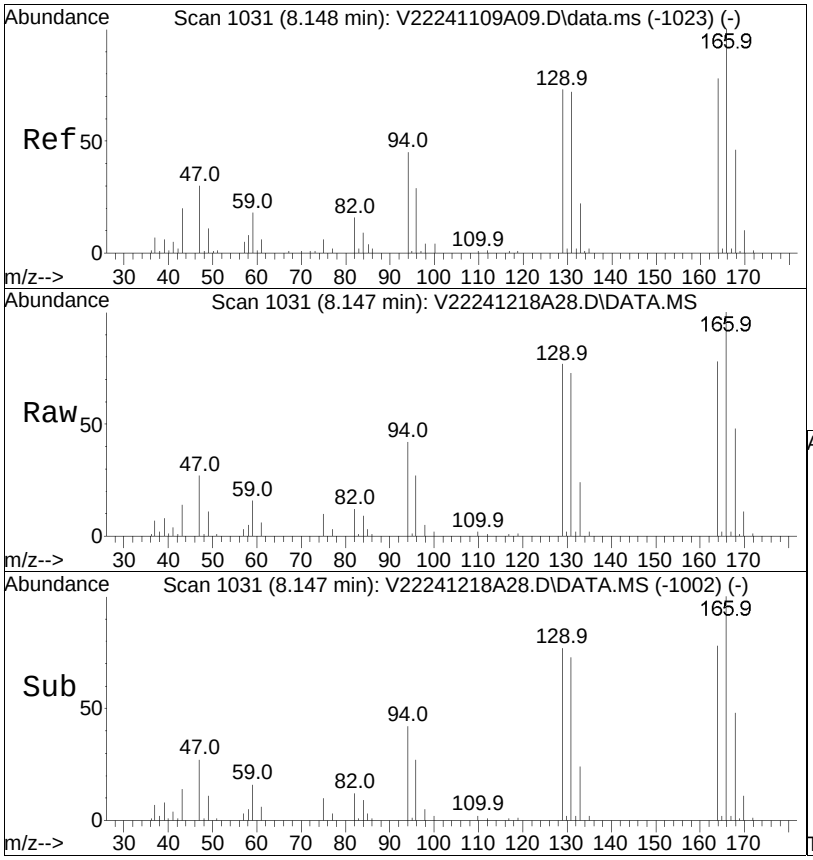


#65
4-Methyl-2-pentanone
Concen: 6.77 ug/L
RT: 8.127 min Scan# 1028
Delta R.T. -0.007 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion: 58 Resp: 5685

Ion	Ratio	Lower	Upper
58	100		
100	41.5	36.2	54.4
43	301.5	181.8	272.8#

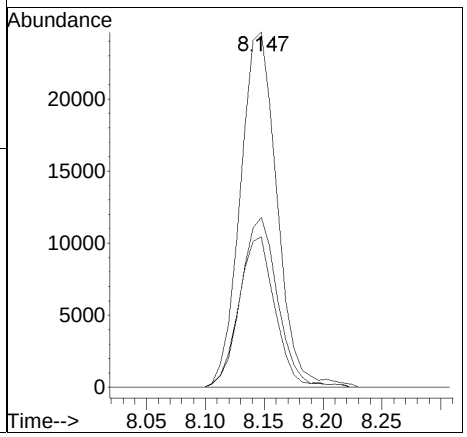


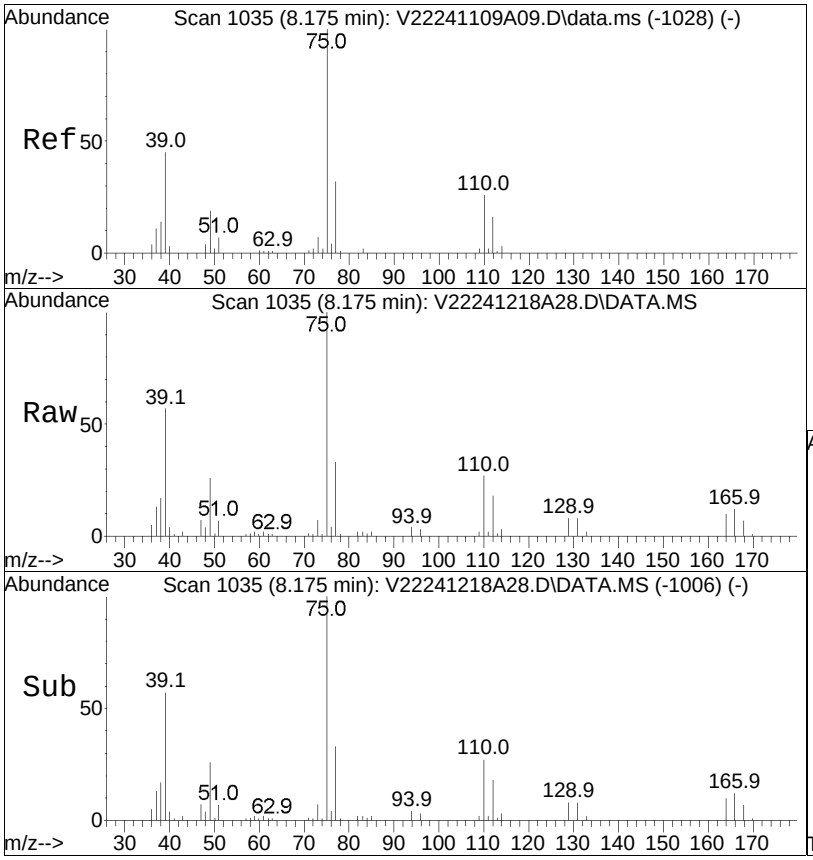


#66
Tetrachloroethene
Concen: 9.57 ug/L
RT: 8.147 min Scan# 1031
Delta R.T. -0.000 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion:166 Resp: 53579

Ion	Ratio	Lower	Upper
166	100		
168	48.1	27.8	67.8
94	42.1	16.7	56.7

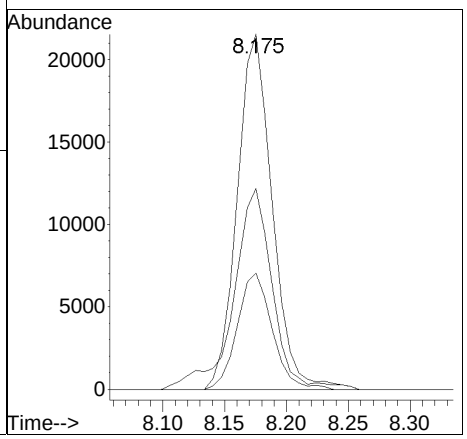


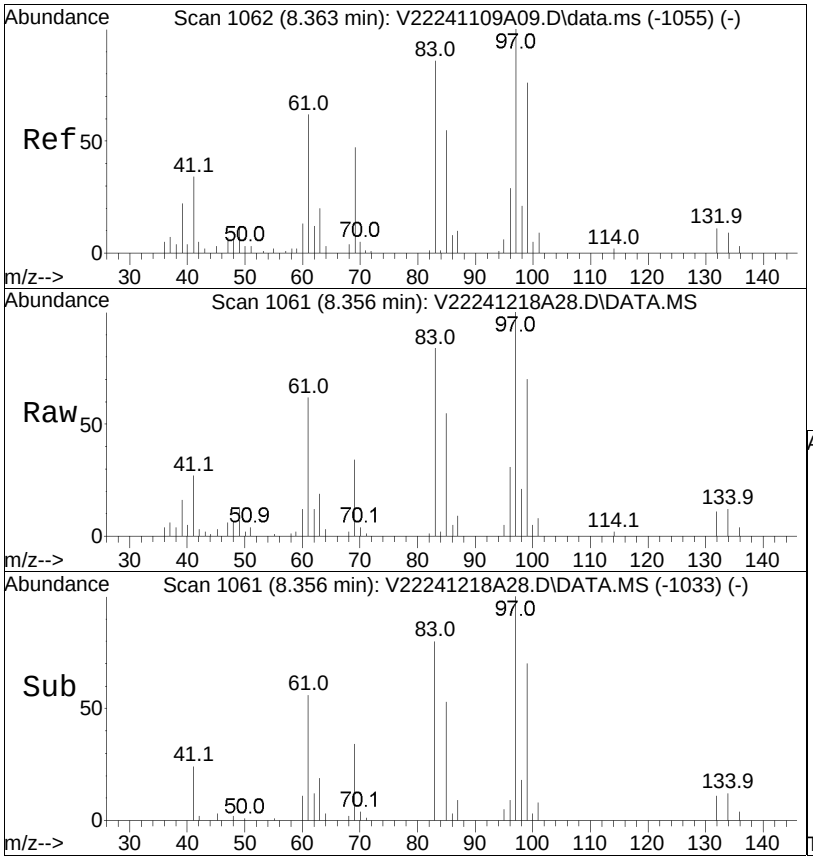


#68
trans-1,3-Dichloropropene
Concen: 7.62 ug/L
RT: 8.175 min Scan# 1035
Delta R.T. -0.000 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion: 75 Resp: 42469

Ion	Ratio	Lower	Upper
75	100		
77	32.6	11.9	51.9
39	62.5	27.4	67.4

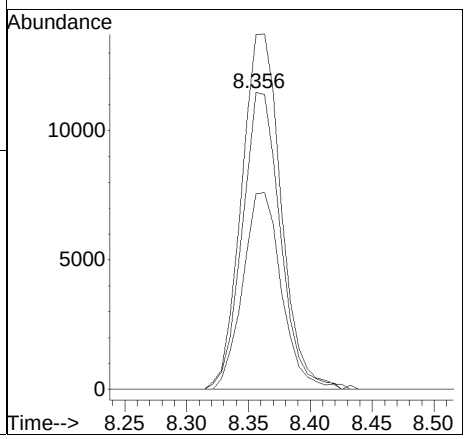


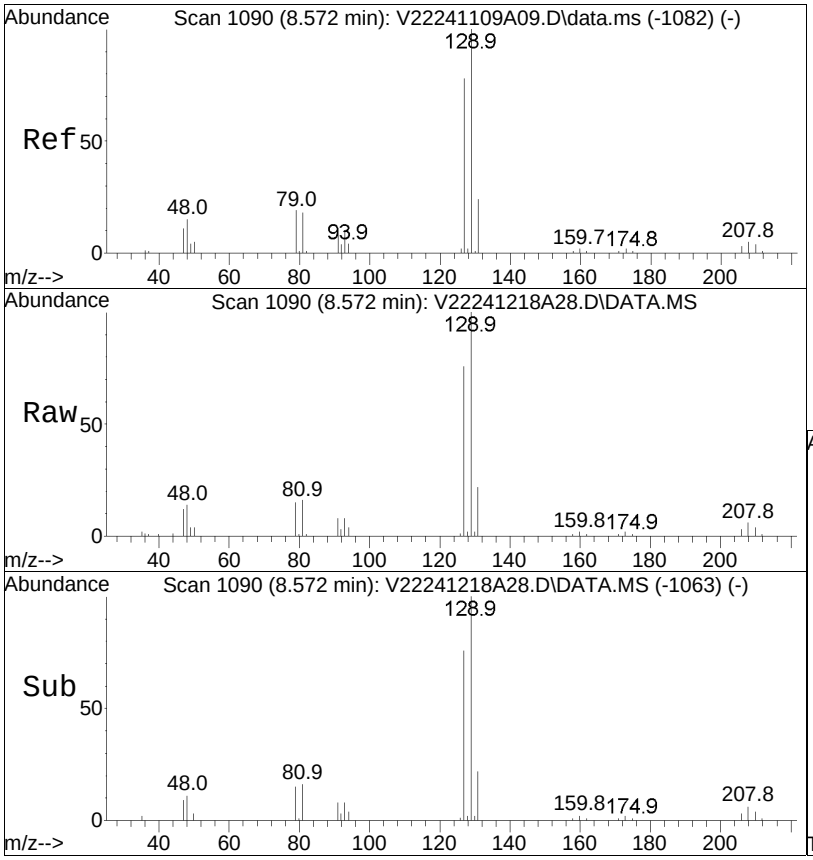


#71
1,1,2-Trichloroethane
Concen: 8.65 ug/L
RT: 8.356 min Scan# 1061
Delta R.T. -0.007 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion: 83 Resp: 24649

Ion	Ratio	Lower	Upper
83	100		
97	124.5	103.4	143.4
85	67.2	47.9	87.9

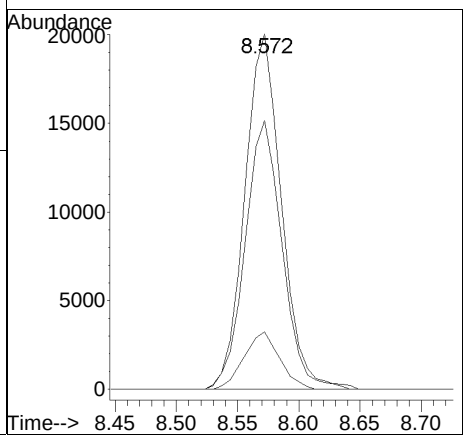


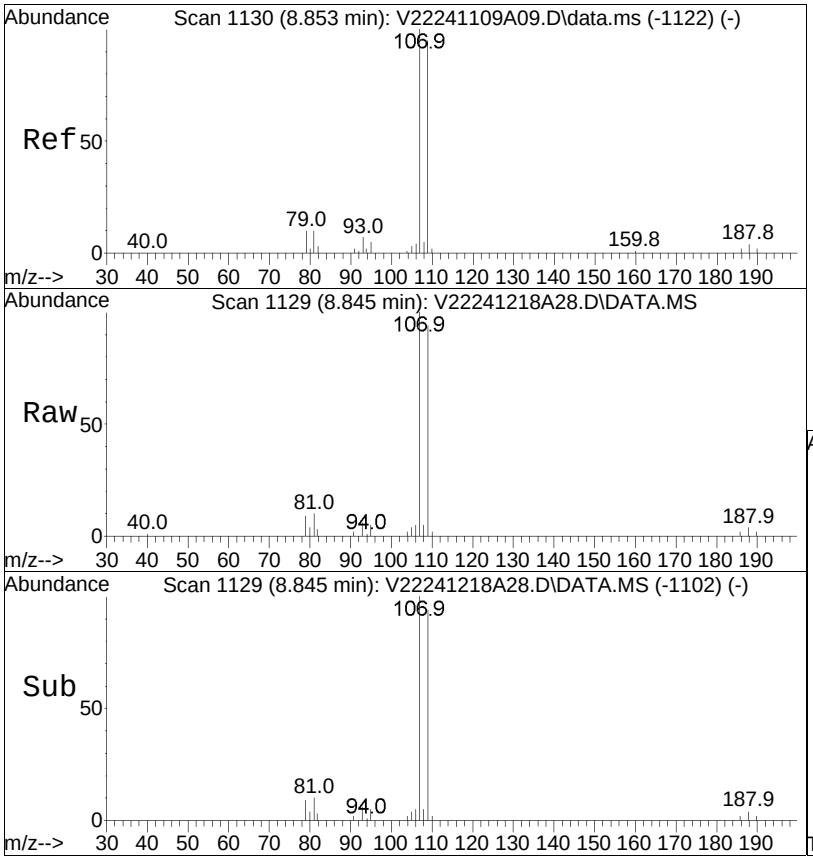


#72
Chlorodibromomethane
Concen: 8.89 ug/L
RT: 8.572 min Scan# 1090
Delta R.T. -0.000 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion:129 Resp: 41722

Ion	Ratio	Lower	Upper
129	100		
81	15.8	0.0	33.8
127	76.4	57.1	97.1

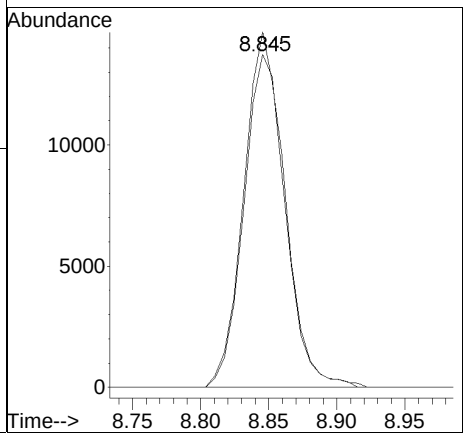


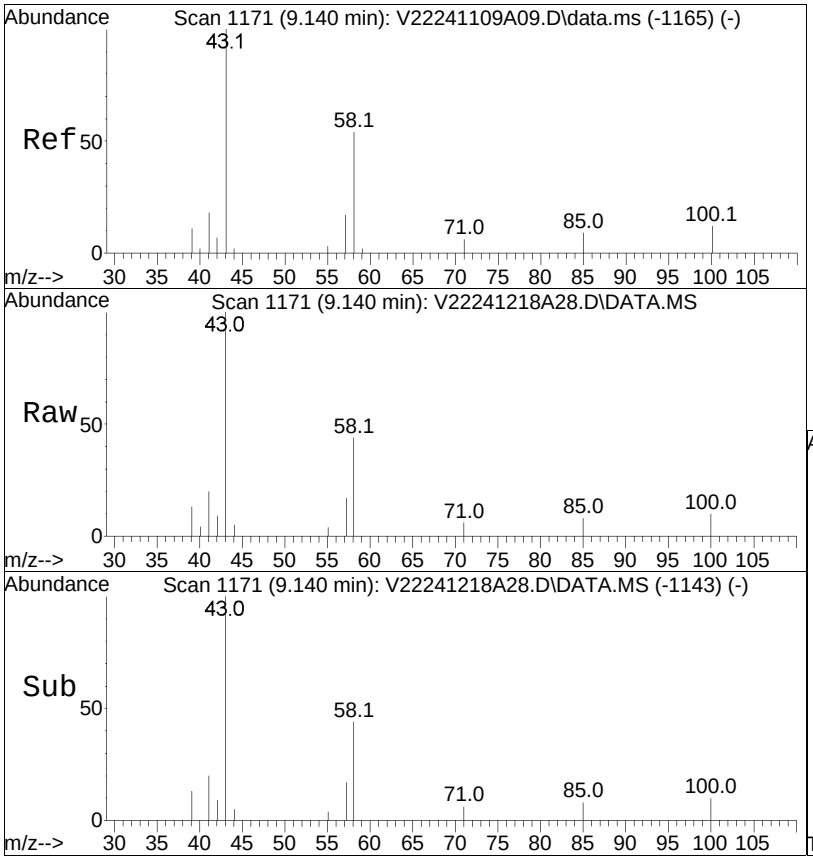


#74
1,2-Dibromoethane
Concen: 8.78 ug/L
RT: 8.845 min Scan# 1129
Delta R.T. -0.007 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion:107 Resp: 30765

Ion	Ratio	Lower	Upper
107	100		
109	94.9	75.1	112.7

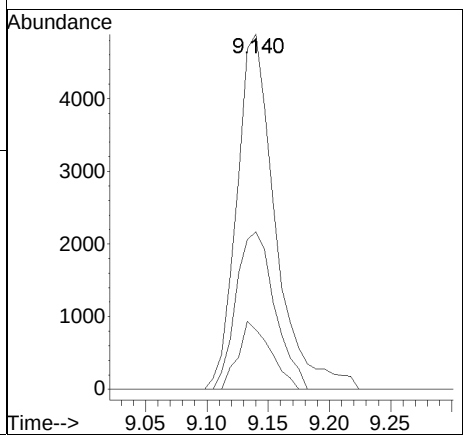


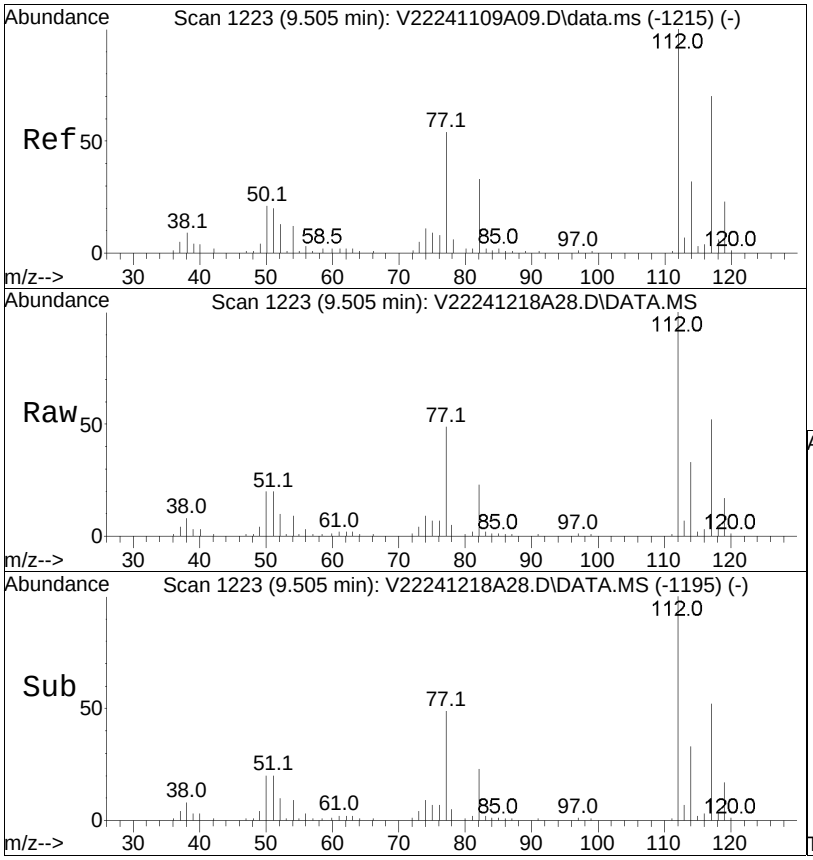


#76
2-Hexanone
Concen: 7.85 ug/L
RT: 9.140 min Scan# 1171
Delta R.T. -0.000 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion: 43 Resp: 10731

Ion	Ratio	Lower	Upper
43	100		
58	44.5	47.6	71.4#
57	15.9	16.6	24.8#

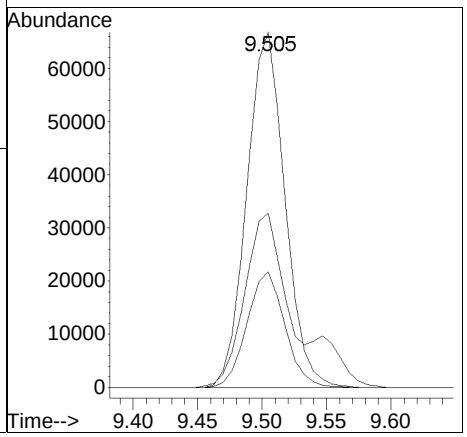


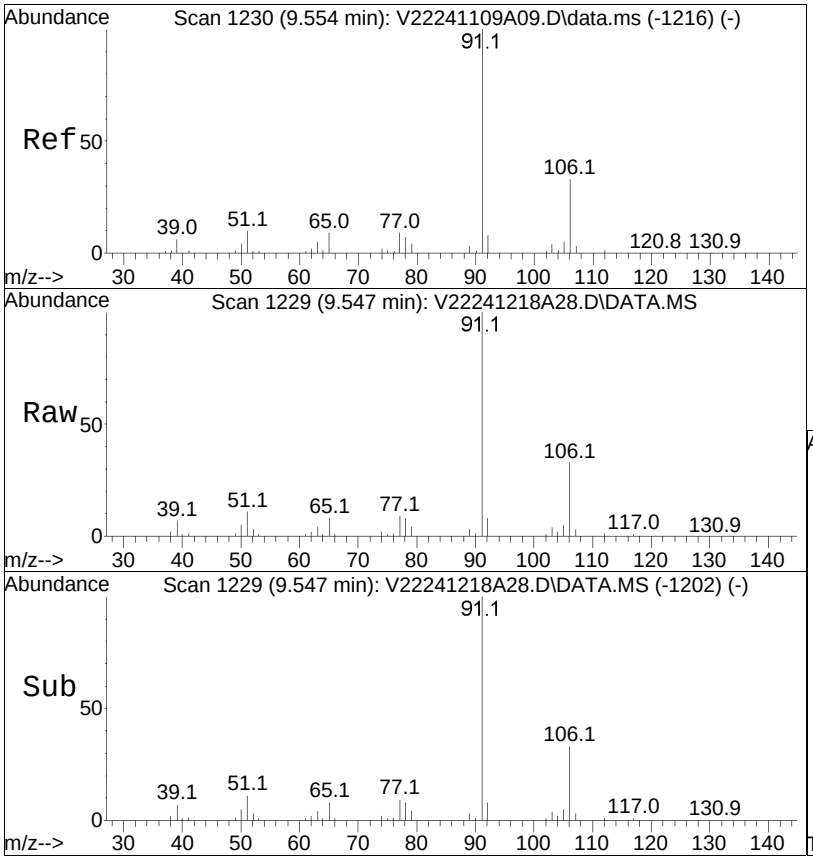


#77
Chlorobenzene
Concen: 9.72 ug/L
RT: 9.505 min Scan# 1223
Delta R.T. -0.000 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion:112 Resp: 137046

Ion	Ratio	Lower	Upper
112	100		
77	52.2	55.4	83.0#
114	32.3	26.2	39.4

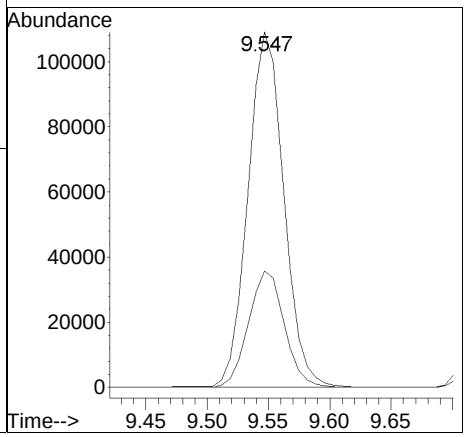


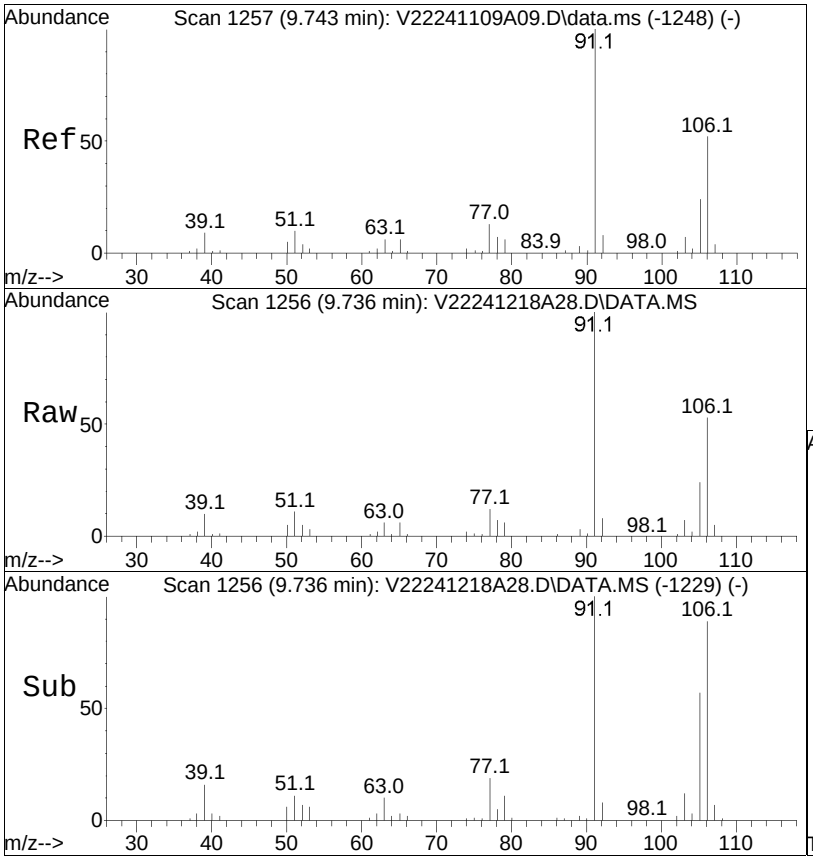


#78
Ethylbenzene
Concen: 9.14 ug/L
RT: 9.547 min Scan# 1229
Delta R.T. -0.007 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion: 91 Resp: 222086

Ion	Ratio	Lower	Upper
91	100		
106	32.7	25.8	38.6

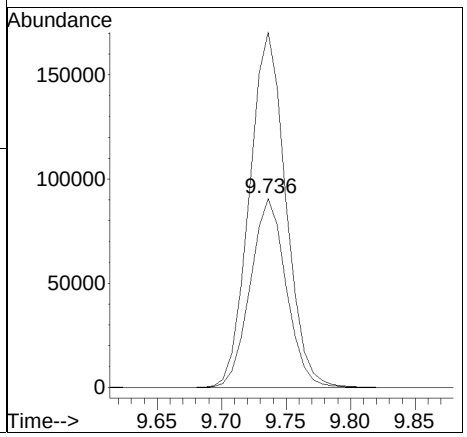


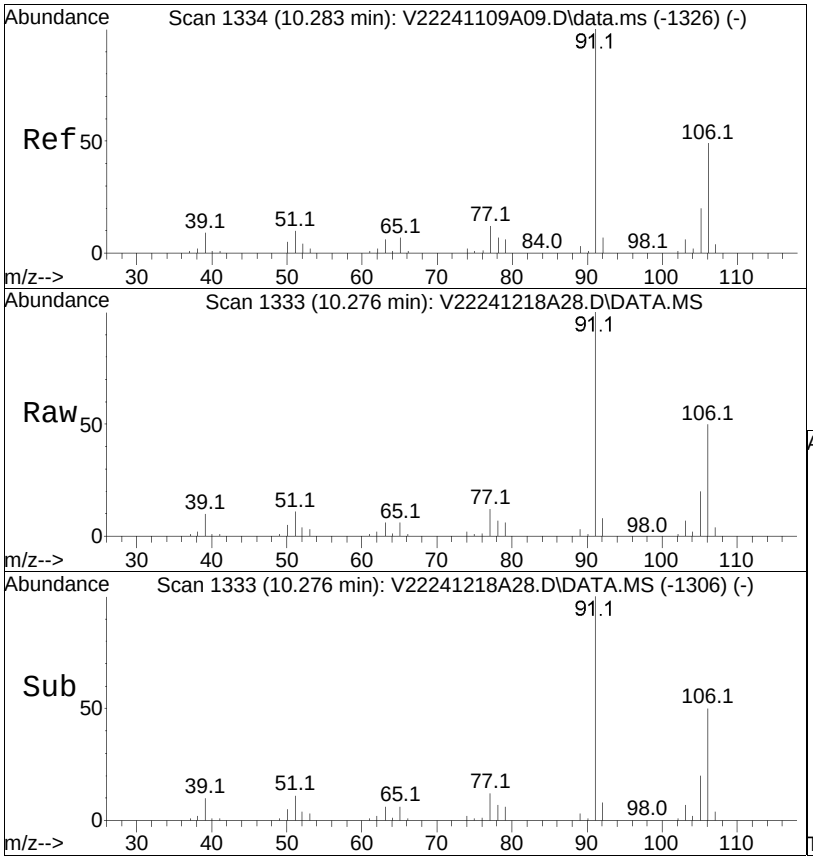


#80
p/m Xylene
Concen: 17.51 ug/L
RT: 9.736 min Scan# 1256
Delta R.T. -0.007 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion:106 Resp: 175410

Ion	Ratio	Lower	Upper
106	100		
91	190.6	156.0	234.0

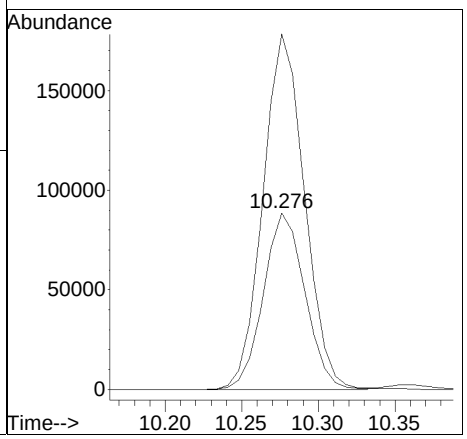


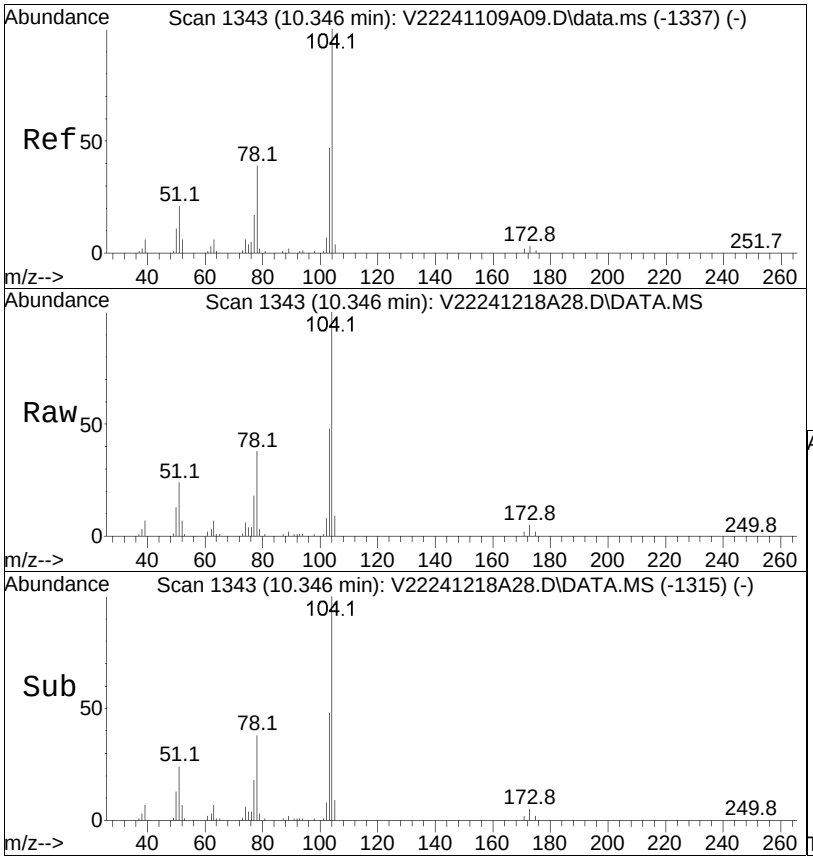


#81
o Xylene
Concen: 17.43 ug/L
RT: 10.276 min Scan# 1333
Delta R.T. -0.007 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion:106 Resp: 166507

Ion	Ratio	Lower	Upper
106	100		
91	201.8	164.0	246.0

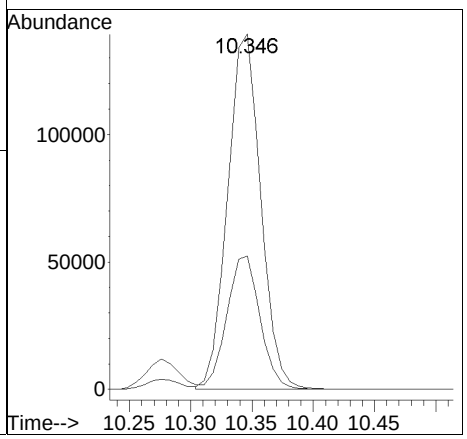


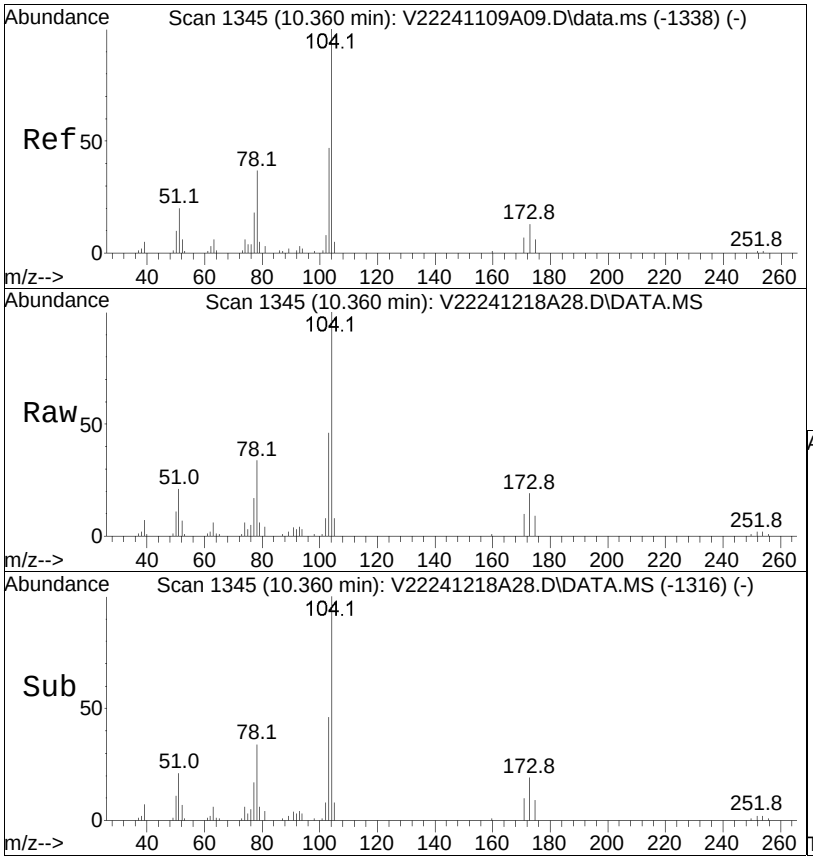


#82
Styrene
Concen: 17.09 ug/L
RT: 10.346 min Scan# 1343
Delta R.T. -0.000 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion:104 Resp: 262354

Ion	Ratio	Lower	Upper
104	100		
78	37.7	32.1	48.1

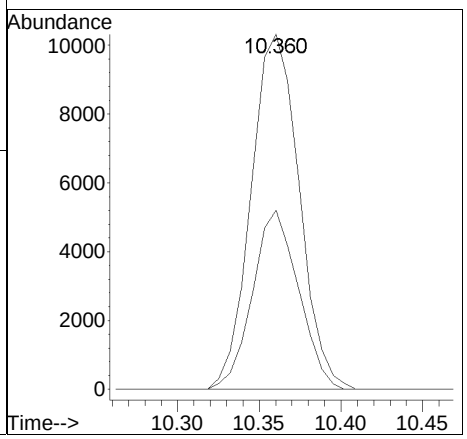


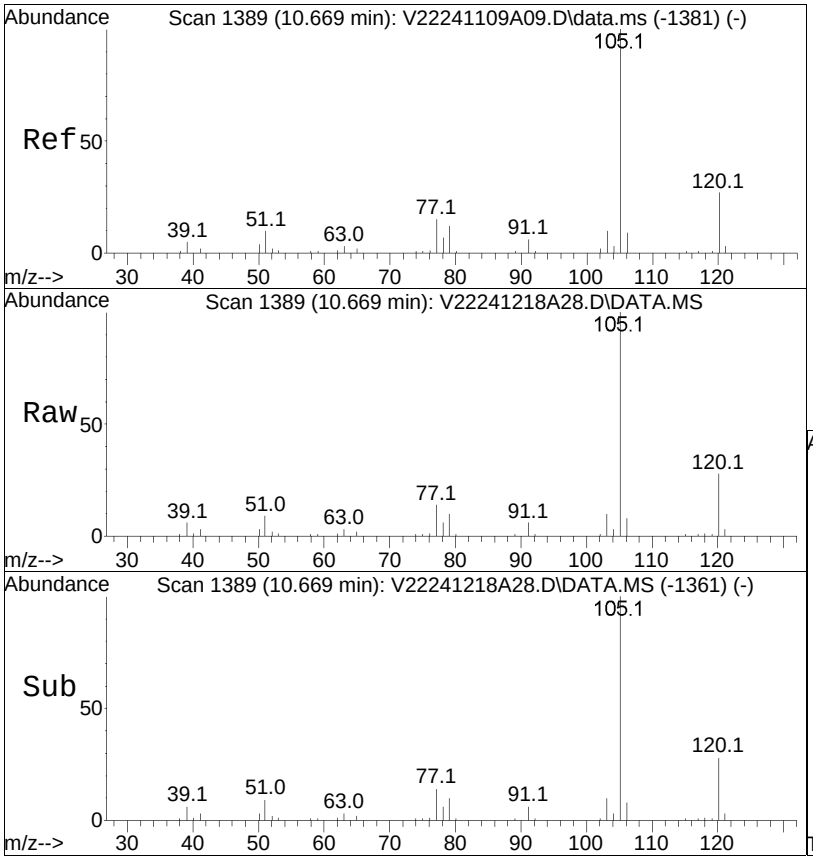


#84
Bromoform
Concen: 8.01 ug/L
RT: 10.360 min Scan# 1345
Delta R.T. 0.000 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion:173 Resp: 21123

Ion	Ratio	Lower	Upper
173	100		
175	48.2	29.3	69.3

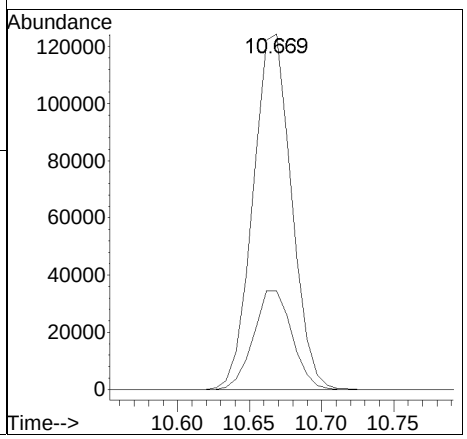


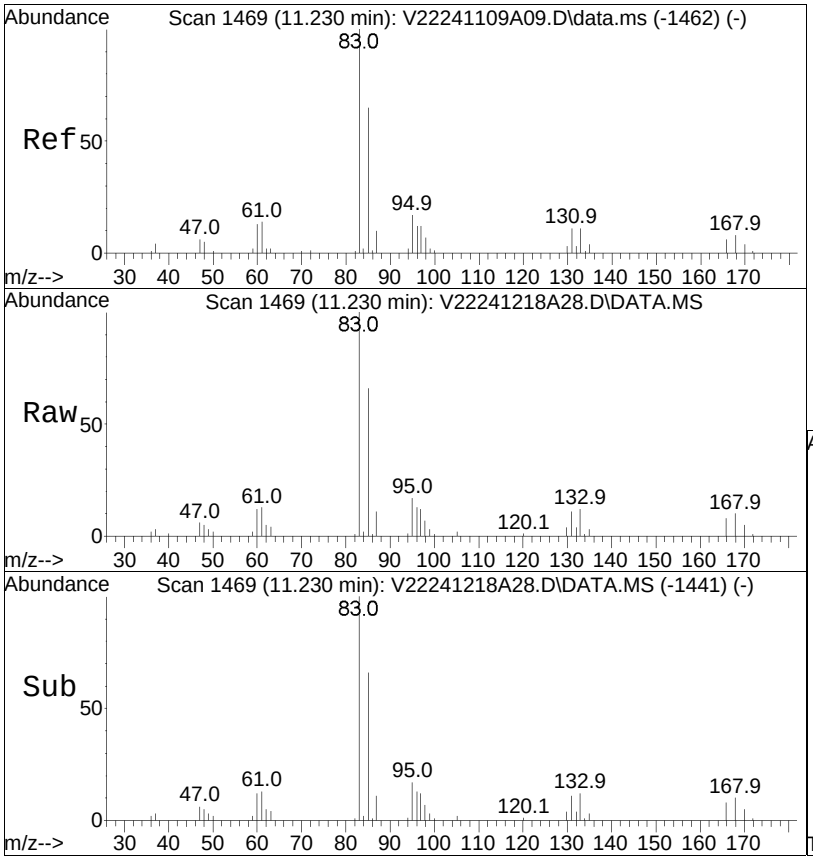


#86
Isopropylbenzene
Concen: 9.17 ug/L
RT: 10.669 min Scan# 1389
Delta R.T. -0.000 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion:105 Resp: 230019

Ion	Ratio	Lower	Upper
105	100		
120	27.9	7.7	47.7

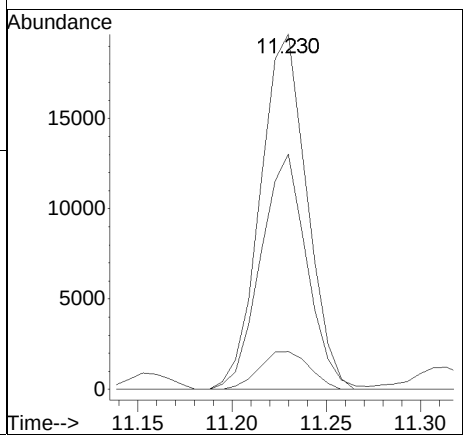


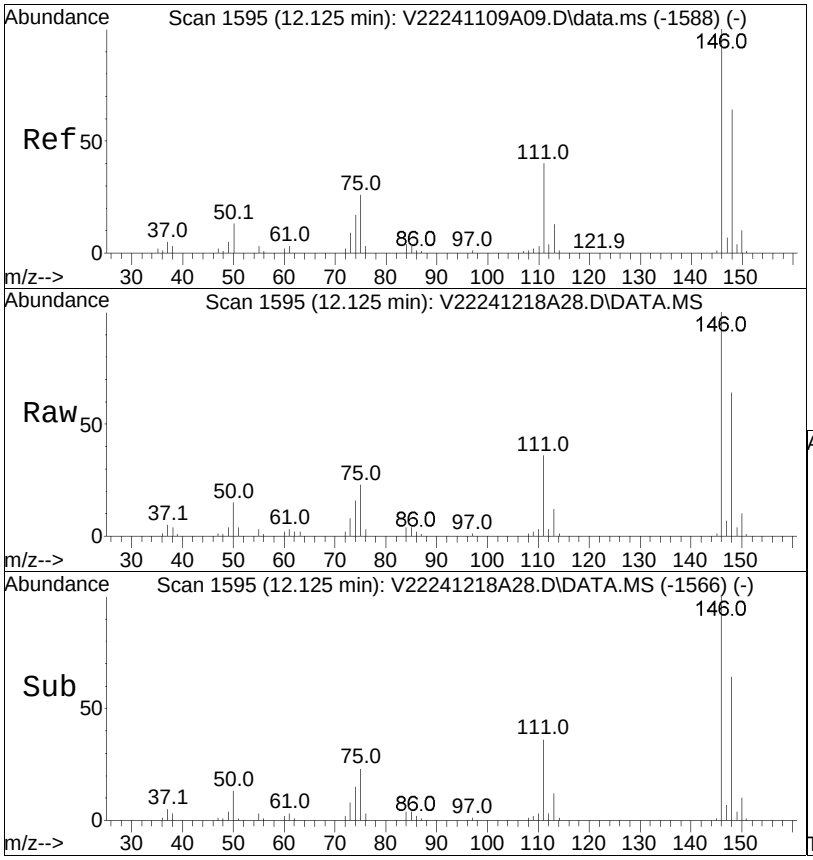


#91
1,1,2,2-Tetrachloroethane
Concen: 8.67 ug/L
RT: 11.230 min Scan# 1469
Delta R.T. -0.000 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion: 83 Resp: 33861

Ion	Ratio	Lower	Upper
83	100		
131	11.5	0.0	30.8
85	66.0	45.4	85.4

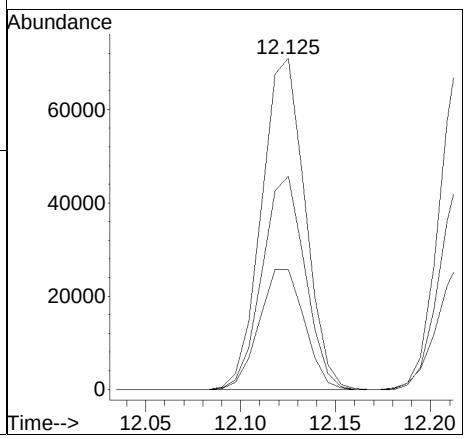


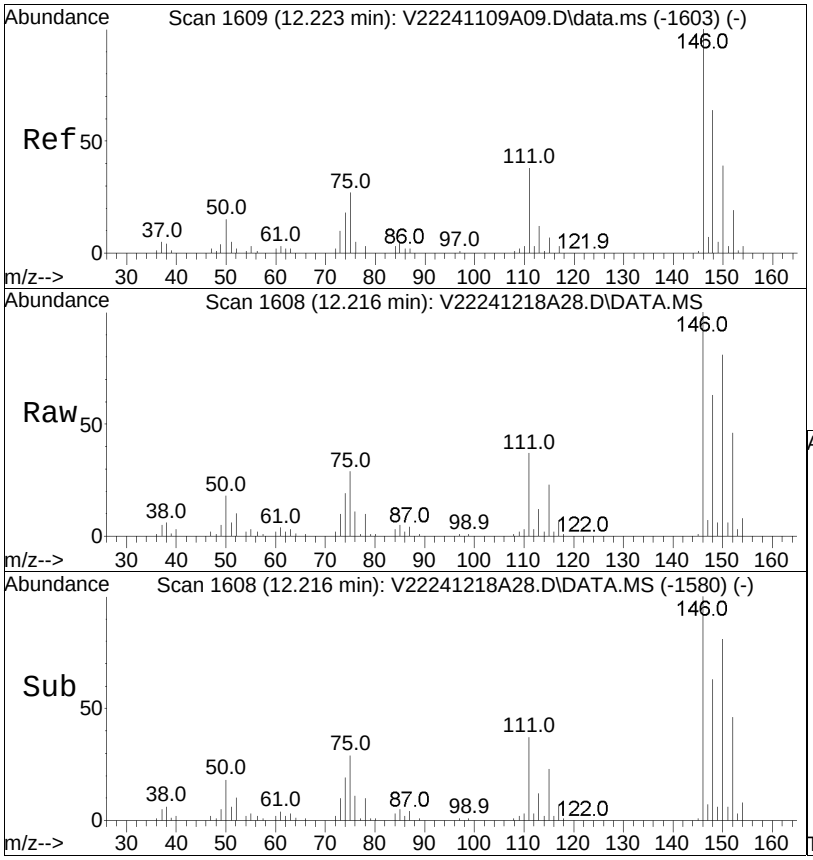


#104
1,3-Dichlorobenzene
Concen: 9.48 ug/L
RT: 12.125 min Scan# 1595
Delta R.T. -0.000 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion:146 Resp: 113143

Ion	Ratio	Lower	Upper
146	100		
111	37.6	24.0	49.8
148	63.5	41.8	86.8

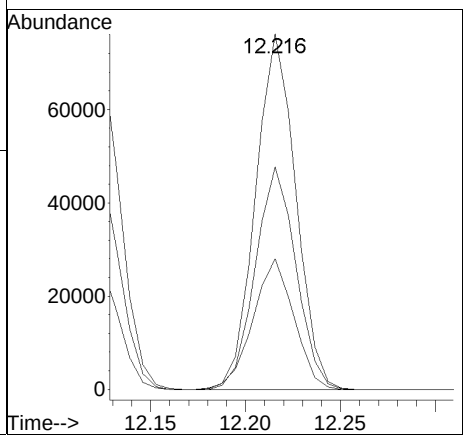


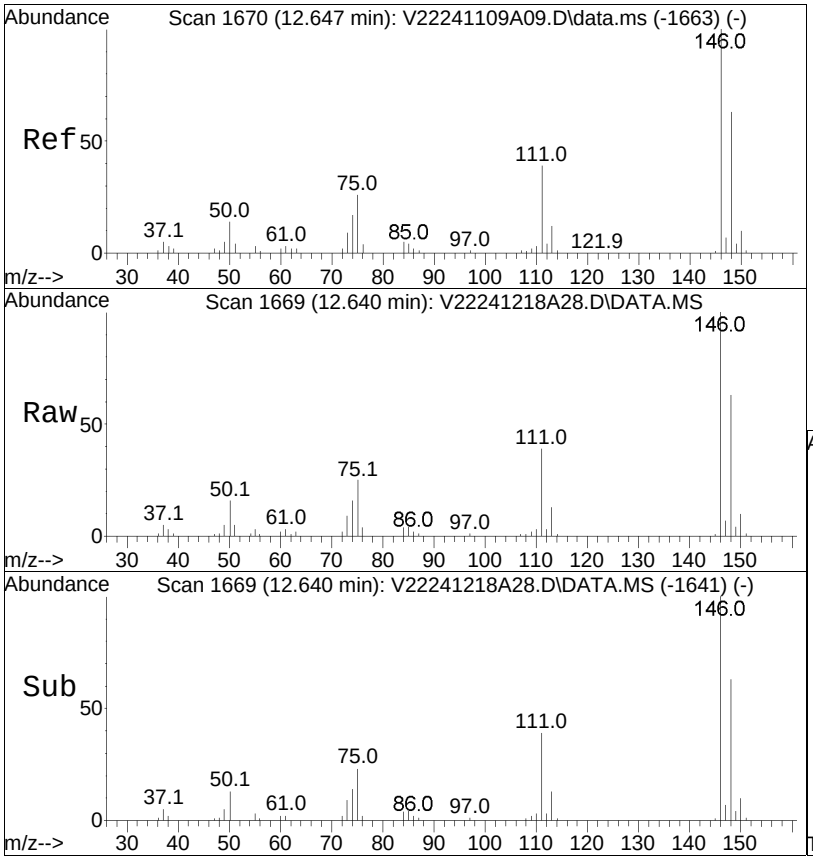


#105
1,4-Dichlorobenzene
Concen: 9.40 ug/L
RT: 12.216 min Scan# 1608
Delta R.T. -0.007 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion:146 Resp: 112194

Ion	Ratio	Lower	Upper
146	100		
111	37.5	28.9	43.3
148	63.2	51.4	77.2

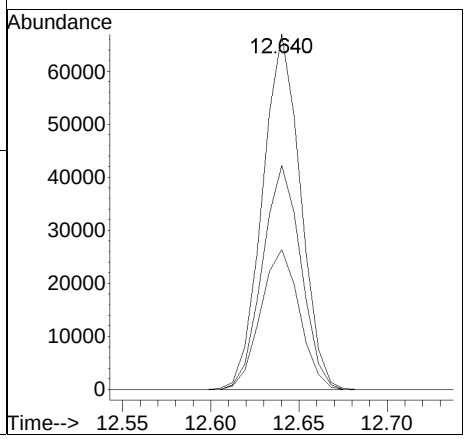


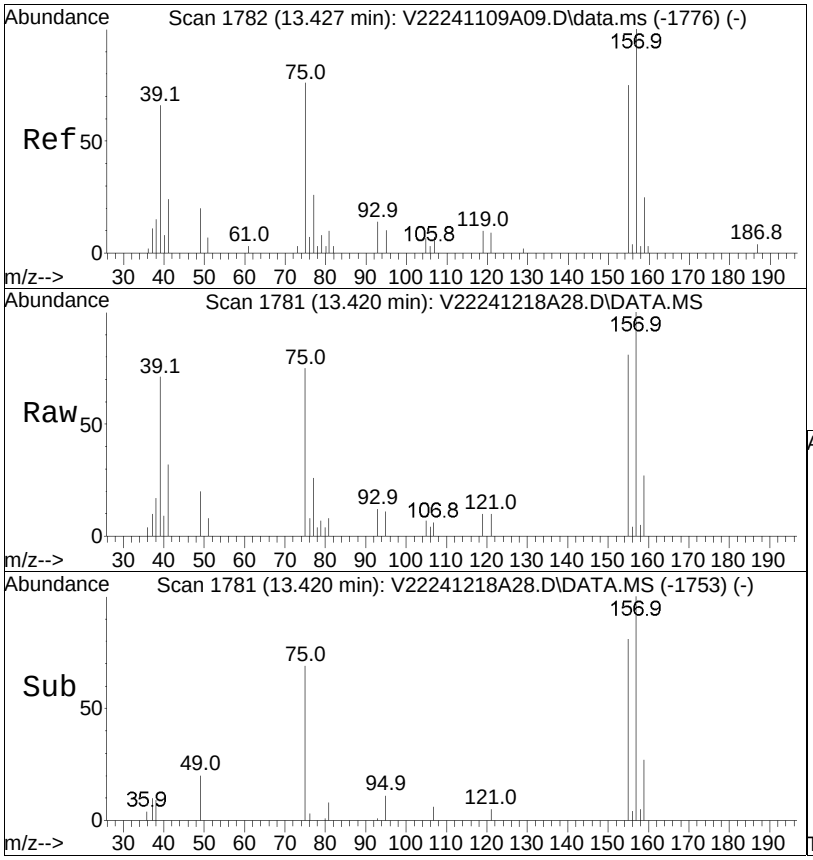


#108
1,2-Dichlorobenzene
Concen: 9.43 ug/L
RT: 12.640 min Scan# 1669
Delta R.T. -0.007 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion:146 Resp: 100478

Ion	Ratio	Lower	Upper
146	100		
111	40.2	24.8	51.6
148	63.8	42.2	87.6

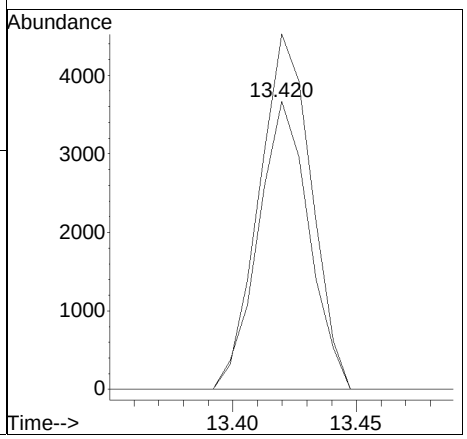


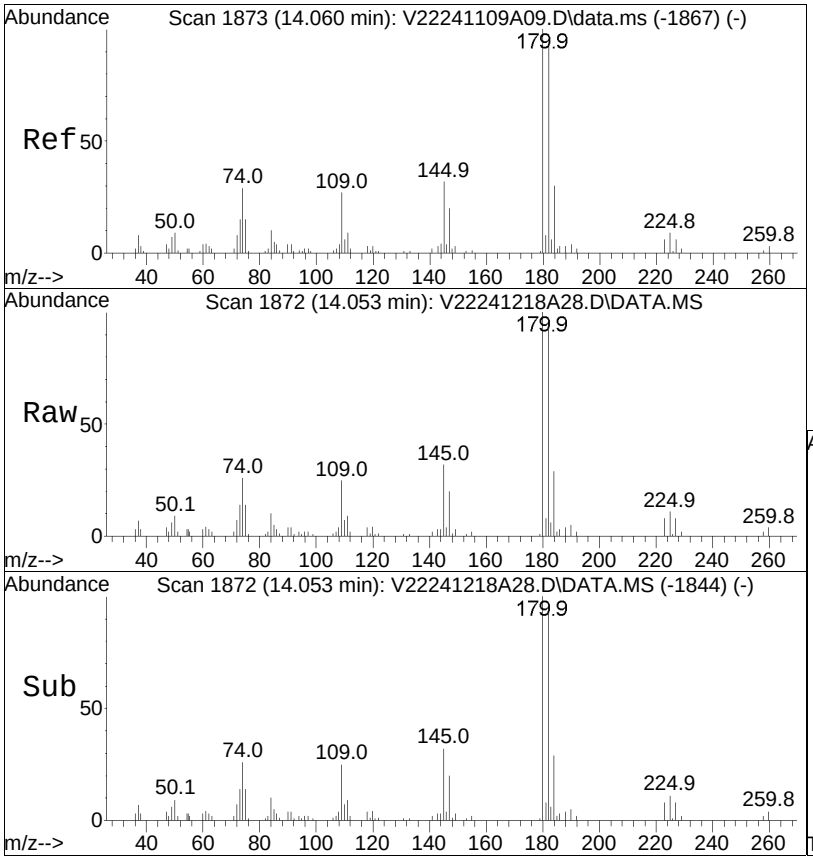


#110
1,2-Dibromo-3-chloropropane
Concen: 8.64 ug/L
RT: 13.420 min Scan# 1781
Delta R.T. -0.007 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion:155 Resp: 5257

Ion	Ratio	Lower	Upper
155	100		
157	126.7	102.3	153.5

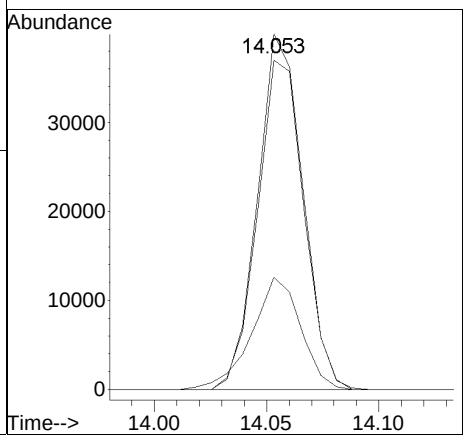


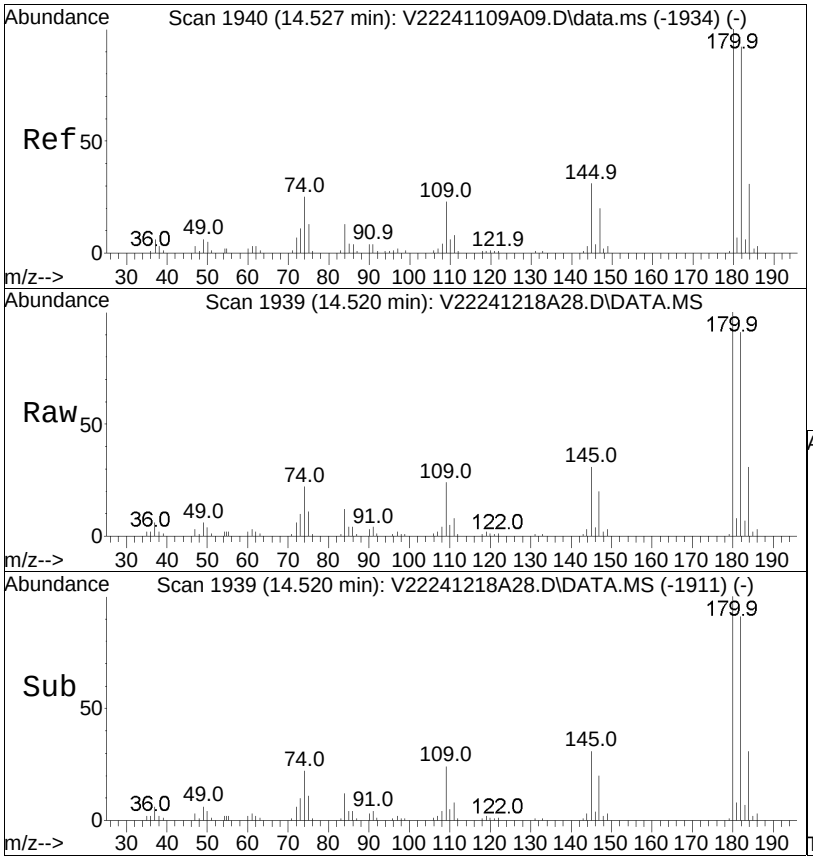


#113
1,2,4-Trichlorobenzene
Concen: 8.99 ug/L
RT: 14.053 min Scan# 1872
Delta R.T. -0.007 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion:180 Resp: 55935

Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.6	114.8
145	34.1	25.5	38.3

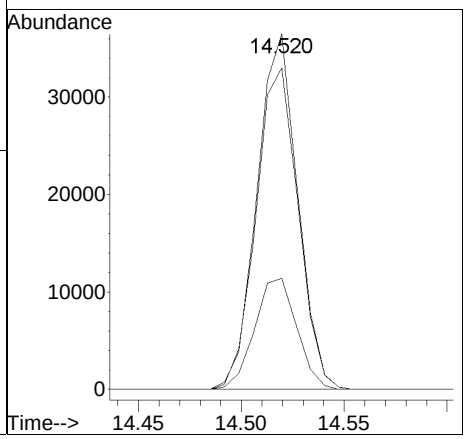




#115
1,2,3-Trichlorobenzene
Concen: 9.48 ug/L
RT: 14.520 min Scan# 1939
Delta R.T. -0.007 min
Lab File: V22241218A28.D
Acq: 18 Dec 2024 06:32 pm

Tgt Ion:180 Resp: 50084

Ion	Ratio	Lower	Upper
180	100		
182	94.0	76.0	114.0
145	32.5	23.8	35.8



Manual Integration Report

Data Path	: K:\VOA122\2024\241218A\	QMethod	: V122_241109A_8260.m
Data File	: V22241218A28.D	Operator	: VOA122:MJV
Date Inj'd	: 12/18/2024 6:32 pm	Instrument	: VOA 122
Sample	: WG2010821-7,31,10,10,,A2	Quant Date	: 12/19/2024 7:10 am

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

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)

Dec 19 2024, 10:03 am

Work Group: WG2010821 for Department: 31 GC/MS - Volatiles

Created: 18-DEC-24 Due: Operator: PID

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2472759-05	SHOP WELL	S	NYTCL-8260-R2	WATER	DONE	U	1225	1218	S0	Vial-B
L2472759-06	ROBOSKI WELL	S	NYTCL-8260-R2	WATER	DONE	U	1225	1218	S0	Vial-B
L2472759-09	MW-12A	S	NYTCL-8260-R2	WATER	DONE	U	1225	1218	S0	Vial-B
L2472759-16	MW-2A	C	NYTCL-8260	WATER	DONE	U	1225	1218	S0	Vial-B
L2472759-18	TRIP BLANK	S	NYTCL-8260-R2	WATER	DONE	U	1225	1218	S0	Vial-B
L2473051-01	MW-1	C	NYTCL-8260	WATER	SEC	U	1226	1219	S0	Vial-B
L2473051-02	MW-5	C	NYTCL-8260	WATER	DONE	U	1226	1219	S0	Vial-B
L2473051-03	TRIP BLANK	S	NYTCL-8260	WATER	DONE	U	1226	1219	S0	Vial-B
L2473076-03	FB01_241212	S	NYTCL-8260	WATER	DONE	U	1226	1219	S0	Vial-B
L2473162-01	MW-11S	S	NYTCL-8260	WATER	DONE	U	1226	1219	S0	Vial-B
L2473162-02	MW-11D	S	NYTCL-8260	WATER	DONE	U	1226	1219	S0	Vial-B
L2473162-03	MW-1SR	S	NYTCL-8260	WATER	DONE	U	1226	1219	S0	Vial-B
L2473162-04	MW-1DR2	S	NYTCL-8260	WATER	DONE	U	1226	1219	S0	Vial-B
L2473162-05	MP-1	S	NYTCL-8260	WATER	DONE	U	1226	1219	S0	Vial-B
L2473162-06	MP-1D	S	NYTCL-8260	WATER	DONE	U	1226	1219	S0	Vial-B
L2473162-07	DUP_121224	S	NYTCL-8260	WATER	DONE	U	1226	1219	S0	Vial-B
L2473162-08	MW-13S	S	NYTCL-8260	WATER	DONE	U	1226	1219	S0	Vial-B
L2473162-09	MW-13D	S	NYTCL-8260	WATER	DONE	U	1226	1219	S0	Vial-B
L2473162-10	EB_121224	S	NYTCL-8260	WATER	DONE	U	1226	1219	S0	Vial-B
L2473162-11	TRIP BLANK	S	NYTCL-8260	WATER	DONE	U	1224	1219	S0	Vial-B
WG2010821-1	MS BFB Tune Standard	S	NYTCL-8260-R2	WATER	DONE	U				
WG2010821-1	MS BFB Tune Standard	S	NYTCL-8260	WATER	DONE	U				
WG2010821-2	Continuing Calibrati	S	NYTCL-8260	WATER	DONE	U				
WG2010821-2	Continuing Calibrati	S	NYTCL-8260-R2	WATER	DONE	U				
WG2010821-3	Laboratory Control S	S	NYTCL-8260-R2	WATER	DACQ	U				
WG2010821-3	Laboratory Control S	S	NYTCL-8260	WATER	DONE	U				
WG2010821-4	LCS Duplicate	S	NYTCL-8260	WATER	DONE	U				
WG2010821-4	LCS Duplicate	S	NYTCL-8260-R2	WATER	DACQ	U				
WG2010821-5	Laboratory Method Bl	S	NYTCL-8260	WATER	DONE	U				
WG2010821-5	Laboratory Method Bl	S	NYTCL-8260-R2	WATER	DACQ	U				
WG2010821-6	Matrix Spike	S	NYTCL-8260	WATER	DONE	U				
WG2010821-6	Matrix Spike	S	NYTCL-8260-R2	WATER	DACQ	U				
WG2010821-7	Matrix Spike Duplica	S	NYTCL-8260	WATER	DONE	U				
WG2010821-7	Matrix Spike Duplica	S	NYTCL-8260-R2	WATER	DACQ	U				

Comments:

WG2010821-4	WG2010821-3
WG2010821-6	L2473162-06
WG2010821-7	L2473162-06

Inst: VOA122 BFB: V10735 Method GC: 8260
Initials: TMS IS/SS: V10782 Autosampler: 8260water
Date: **11/09/24** ICAL: V10792,V10788B Concentrator: 8260 v122
Run **A** ICV: V10780,V10761,V10771,V10762,V10745,V10756 QC:_____ Seq:_____

Vial	Data File	Sample	pH<2
1	V22241109ABF1	BFB TUNE	
1	V22241109A01	BLK	
2	V22241109A02	BLK	
3	V22241109A03	I8260STD0.19PPB	
4	V22241109A04	I8260STD0.19PPB	
5	V22241109A05	I8260STD0.5PPB	
6	V22241109A06	I8260STD0.5PPB	
7	V22241109A07	I8260STD2PPB	
8	V22241109A08	I8260STD2PPB	
9	V22241109A09	I8260STD10PPB	
10	V22241109A10	I8260STD30PPB	
11	V22241109A11	I8260STD80PPB	
12	V22241109A12	I8260STD120PPB	
13	V22241109A13	I8260STD200PPB	
14	V22241109A14	BLK	
15	V22241109A15	BLK	
16	V22241109A16	BLK	
17	V22241109A17	BLK	
18	V22241109A18	C8260STD10PPB	
19	V22241109A19	C8260STD10PPB	
20	V22241109A20	BLK	
21	V22241109A21	METHOD BLK	
22	V22241109A22	MDL 0.19PPB	
23	V22241109A23	MDL 0.19PPB	
24	V22241109A24	MDL 0.5PPB	
25	V22241109A25	MDL 0.5PPB	
26	V22241109A26	MDL 2PPB	
27	V22241109A27	MDL 2PPB	
28	V22241109A28	BLK	

Inst: VOA122 BFB: V10847 Method
Initials: PID IS/SS: V10849 GC: 8260
Date: **12/18/24** ICAL: V10807C,V10856 Autosampler: 8260water
Run **A** Concentrator: 8260 v122
QC:_____ Seq:_____

Vial	Data File	Sample			pH<2
1	V22241218ABF1	BFB TUNE	07:17		
1	V22241218A01	8260 CCAL	QC FAILS		
2	V22241218A02	8260 CCAL	LCS		
3	V22241218A03	8260 CCAL	LCSD		
4	V22241218A04	BLK			
5	V22241218A05	METHOD BLK			
6	V22241218A06	L2472759-05,31,10,10,,A	NYCURVE/IM		pH<2
7	V22241218A07	L2472759-06,31,10,10,,A	NYCURVE/IM		pH<2
8	V22241218A08	L2472759-09,31,10,10,,A	NYCURVE/IM		pH<2
9	V22241218A09	L2472759-16,31,10,10,,A	NYCURVE/IM		pH<2
10	V22241218A10	L2472759-18,31,10,10,,A	NYCURVE/IM	TB	pH<2
11	V22241218A11	DSTD			
12	V22241218A12	L2473051-01,31,10,10,,A	NYCURVE/IM		pH<2
13	V22241218A13	L2473051-02,31,10,10,,A	NYCURVE/IM		pH<2
14	V22241218A14	L2473051-03,31,10,10,,A	NYCURVE/IM	TB	pH<2
15	V22241218A15	L2473076-03,31,10,10,,A	NYCURVE	FB	pH<2
16	V22241218A16	L2473162-10,31,10,10,,A	NY/R2		pH<2
17	V22241218A17	L2473162-11,31,10,10,,A	NY/R2	TB	pH<2
18	V22241218A18	L2473162-01,31,10,10,,A	NY/R2		pH<2
19	V22241218A19	L2473162-02,31,10,10,,A	NY/R2		pH<2
20	V22241218A20	L2473162-03,31,10,10,,A	NY/R2		pH<2
21	V22241218A21	L2473162-04,31,10,10,,A	NY/R2		pH<2
22	V22241218A22	L2473162-05,31,10,10,,A	NY/R2		pH<2
23	V22241218A23	L2473162-06,31,10,10,,A	NY/R2		pH<2
24	V22241218A24	L2473162-07,31,10,10,,A	NY/R2		pH<2
25	V22241218A25	L2473162-08,31,10,10,,A	NY/R2		pH<2
26	V22241218A26	L2473162-09,31,10,10,,A	NY/R2		pH<2
27	V22241218A27	L2473162-06MS,31,10,10,,A1	NY/R2		pH<2
28	V22241218A28	L2473162-06MSD,31,10,10,,A2	NY/R2		pH<2

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: L2473162
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-11S (L2473162-01)	30	25	58	54	34	57	0
MW-11D (L2473162-02)	38	29	61	60	45	64	0
MW-1SR (L2473162-03)	39	27	58	56	55	66	0
MW-1DR2 (L2473162-04)	41	29	72	64	48	69	0
MP-1 (L2473162-05)	34	26	61	52	37	55	0
MP-1D (L2473162-06)	35	25	49	48	52	48	0
DUP_121224 (L2473162-07)	35	25	58	52	44	56	0
MW-13S (L2473162-08)	28	24	59	55	37	56	0
MW-13D (L2473162-09)	36	25	52	49	42	52	0
EB_121224 (L2473162-10)	30	24	55	53	34	54	0
WG2009399-1BLANK	46	30	69	69	48	71	0
WG2009399-2LCS	46	30	58	59	58	63	0
WG2009399-3LCSD	49	35	65	64	58	69	0
MP-1DMS	47	34	68	60	73	65	0
MP-1DMSD	50	35	68	62	76	64	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-RVT

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG2009399-2 Analysis Date : 12/17/24 02:13	**File ID**	: 009399-2
LCSD Sample ID	: WG2009399-3 Analysis Date : 12/17/24 02:39	**File ID**	: 009399-3

	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	12.	62	20	13.	67	8	40-140	30
2,4-Dinitrotoluene	20	13.	66	20	15.	73	10	48-143	30
2,6-Dinitrotoluene	20	14.	70	20	14.	72	3	40-140	30
4-Chlorophenyl phenyl ether	20	13.	64	20	14.	69	8	40-140	30
4-Bromophenyl phenyl ether	20	14.	72	20	14.	69	4	40-140	30
Bis(2-chloroisopropyl)ether	20	13.	66	20	14.	72	9	40-140	30
Bis(2-chloroethoxy)methane	20	12.	62	20	13.	67	8	40-140	30
Hexachlorocyclopentadiene	20	8.4	42	20	9.1	45	7	40-140	30
Isophorone	20	14.	68	20	14.	72	6	40-140	30
Nitrobenzene	20	13.	65	20	14.	68	5	40-140	30
NDPA/DPA	20	13.	67	20	13.	67	0	40-140	30
n-Nitrosodi-n-propylamine	20	13.	67	20	14.	72	7	29-132	30
Bis(2-ethylhexyl)phthalate	20	15.	74	20	16.	78	5	40-140	30
Butyl benzyl phthalate	20	15.	76	20	16.	81	6	40-140	30
Di-n-butylphthalate	20	14.	69	20	15.	75	8	40-140	30
Di-n-octylphthalate	20	16.	80	20	17.	83	4	40-140	30
Diethyl phthalate	20	14.	72	20	15.	76	5	40-140	30
Dimethyl phthalate	20	14.	71	20	15.	74	4	40-140	30
Biphenyl	20	11.	56	20	12.	58	4	40-140	30
4-Chloroaniline	20	10.	50	20	9.2	46	8	40-140	30
2-Nitroaniline	20	14.	72	20	15.	76	5	52-143	30
3-Nitroaniline	20	12.	59	20	12.	63	7	25-145	30
4-Nitroaniline	20	13.	66	20	14.	68	3	51-143	30
Dibenzofuran	20	12.	58	20	12.	63	8	40-140	30
1,2,4,5-Tetrachlorobenzene	20	12.	58	20	12.	62	7	2-134	30
Acetophenone	20	11.	56	20	12.	60	7	39-129	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG2009399-2 **Analysis Date** : 12/17/24 02:13	**File ID**	: 009399-2
LCSD Sample ID	: WG2009399-3 **Analysis Date** : 12/17/24 02:39	**File ID**	: 009399-3

	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	14.	68	20	15.	74	8	30-130	30
p-Chloro-m-cresol	20	15.	73	20	15.	74	1	23-97	30
2-Chlorophenol	20	11.	55	20	12.	60	9	27-123	30
2,4-Dichlorophenol	20	11.	56	20	13.	64	13	30-130	30
2,4-Dimethylphenol	20	6.0	30	20	6.2	31	3	30-130	30
2-Nitrophenol	20	11.	56	20	13.	65	15	30-130	30
4-Nitrophenol	20	8.9	44	20	9.6	48	9	10-80	30
2,4-Dinitrophenol	20	13.	65	20	15.	74	13	20-130	30
4,6-Dinitro-o-cresol	20	16.	82	20	17.	85	4	20-164	30
Phenol	20	6.4	32	20	7.0	35	9	12-110	30
2-Methylphenol	20	10.	50	20	11.	54	8	30-130	30
3-Methylphenol/4-Methylphenol	20	10.	51	20	10.	53	4	30-130	30
2,4,5-Trichlorophenol	20	14.	71	20	15.	76	7	30-130	30
Carbazole	20	12.	61	20	14.	71	15	55-144	30
Atrazine	20	19.	96	20	18.	93	3	40-140	30
Benzaldehyde	20	11.	56	20	12.	59	5	40-140	30
Caprolactam	20	9.5	47	20	9.8	49	4	10-130	30

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2473162-06	**Analysis Date**	: 12/17/24 06:33
Matrix Spike	: WG2009399-4	**MS Analysis Date**	: 12/17/24 05:48
Matrix Spike Dup	: WG2009399-5	**MSD Analysis Date**	: 12/17/24 06:10

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R		Spike Added (ug/l)	Spike Conc. (ug/l)	%R		RPD	Recovery Limits	RPD Limit
3,3'-Dichlorobenzidine	ND	20	12.	60		20	11.	55		9	40-140	30
2,4-Dinitrotoluene	ND	20	14.	70		20	14.	70		0	48-143	30
2,6-Dinitrotoluene	ND	20	13.	65		20	14.	70		7	40-140	30
4-Chlorophenyl phenyl ether	ND	20	12.	60		20	13.	65		8	40-140	30
4-Bromophenyl phenyl ether	ND	20	13.	65		20	13.	65		0	40-140	30
Bis(2-chloroisopropyl)ether	ND	20	14.	70		20	13.	65		7	40-140	30
Bis(2-chloroethoxy)methane	ND	20	14.	70		20	14.	70		0	40-140	30
Hexachlorocyclopentadiene	ND	20	6.8J	34	Q	20	7.4J	37	Q	8	40-140	30
Isophorone	ND	20	13.	65		20	13.	65		0	40-140	30
Nitrobenzene	ND	20	13.	65		20	13.	65		0	40-140	30
NDPA/DPA	ND	20	13.	65		20	13.	65		0	40-140	30
n-Nitrosodi-n-propylamine	ND	20	14.	70		20	13.	65		7	29-132	30
Bis(2-ethylhexyl)phthalate	ND	20	15.	75		20	15.	75		0	40-140	30
Butyl benzyl phthalate	ND	20	15.	75		20	15.	75		0	40-140	30
Di-n-butylphthalate	ND	20	14.	70		20	14.	70		0	40-140	30
Di-n-octylphthalate	ND	20	14.	70		20	15.	75		7	40-140	30
Diethyl phthalate	ND	20	14.	70		20	14.	70		0	40-140	30
Dimethyl phthalate	ND	20	14.	70		20	14.	70		0	40-140	30
Biphenyl	ND	20	14.	70		20	15.	75		7	40-140	30
4-Chloroaniline	ND	20	11.	55		20	7.8	39	Q	34 Q	40-140	30
2-Nitroaniline	ND	20	14.	70		20	14.	70		0	52-143	30
3-Nitroaniline	ND	20	13.	65		20	12.	60		8	25-145	30

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2473162-06	**Analysis Date**	: 12/17/24 06:33
Matrix Spike	: WG2009399-4	**MS Analysis Date**	: 12/17/24 05:48
Matrix Spike Dup	: WG2009399-5	**MSD Analysis Date**	: 12/17/24 06:10

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
4-Nitroaniline	ND	20	13.	65	20	15.	75	14	51-143	30
Dibenzofuran	ND	20	12.	60	20	13.	65	8	40-140	30
1,2,4,5-Tetrachlorobenzene	ND	20	14.	70	20	14.	70	0	2-134	30
Acetophenone	ND	20	17.	85	20	17.	85	0	39-129	30
2,4,6-Trichlorophenol	ND	20	13.	65	20	13.	65	0	30-130	30
p-Chloro-m-cresol	ND	20	13.	65	20	14.	70	7	23-97	30
2-Chlorophenol	ND	20	13.	65	20	12.	60	8	27-123	30
2,4-Dichlorophenol	ND	20	14.	70	20	13.	65	7	30-130	30
2,4-Dimethylphenol	ND	20	7.7	39	20	5.8	29 Q	28	30-130	30
2-Nitrophenol	ND	20	12.	60	20	12.	60	0	30-130	30
4-Nitrophenol	ND	20	10.	50	20	11.	55	10	10-80	30
2,4-Dinitrophenol	ND	20	8.6J	43	20	8.6J	43	0	20-130	30
4,6-Dinitro-o-cresol	ND	20	12.	60	20	12.	60	0	20-164	30
Phenol	3.1J	20	7.9	40	20	9.1	46	14	12-110	30
2-Methylphenol	ND	20	12.	60	20	11.	55	9	30-130	30
3-Methylphenol/4-Methylphenol	ND	20	12.	60	20	11.	55	9	30-130	30
2,4,5-Trichlorophenol	ND	20	14.	70	20	13.	65	7	30-130	30
Carbazole	ND	20	14.	70	20	14.	70	0	55-144	30
Atrazine	ND	20	18.	90	20	20.	100	11	40-140	30
Benzaldehyde	ND	20	18.	90	20	17.	85	6	40-140	30
Caprolactam	ND	20	6.2J	31	20	7.3J	37	16	10-130	30

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG2009399-1	**Lab File ID**	: 009399-1
Instrument ID	: SV107	**Extraction Date**	: 12/15/24
Matrix	: WATER	**Analysis Date**	: 12/17/24 01:48
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG2009399-2LCS	WG2009399-2	12/17/24 02:13
WG2009399-3LCSD	WG2009399-3	12/17/24 02:39
MW-11S	L2473162-01	12/17/24 03:56
MW-11D	L2473162-02	12/17/24 04:19
MW-1SR	L2473162-03	12/17/24 04:41
MW-1DR2	L2473162-04	12/17/24 05:03
MP-1	L2473162-05	12/17/24 05:26
MP-1DMS	WG2009399-4	12/17/24 05:48
MP-1DMSD	WG2009399-5	12/17/24 06:10
MP-1D	L2473162-06	12/17/24 06:33
DUP_121224	L2473162-07	12/17/24 06:55
MW-13S	L2473162-08	12/17/24 07:17
MW-13D	L2473162-09	12/17/24 07:40
EB_121224	L2473162-10	12/17/24 08:02

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 07/30/24 19:00
Tune Standard	: R1859825-31	**Tune File ID**	: Tune1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	33.5
68	Less than 2.0% of mass 69	0.5 (1.6)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	45.1
197	Less than 2.0% of mass 198	0.8
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	21.7
365	Greater than 1.0% of mass 198	2.4
441	Present, but less than 24% of mass 442	16.2
442	Base Peak, or >50% of mass 198	85
443	15.0 - 24.0% of mass 442	16.9 (19.9)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
ABNL9	R1859825-9	ABNL9	07/30/24 19:25
ABNL8	R1859825-8	ABNL8	07/30/24 19:51
ABNL7	R1859825-7	ABNL7	07/30/24 20:16
ABNL6	R1859825-5	ABNL6	07/30/24 20:42
ABNL5	R1859825-6	ABNL5	07/30/24 21:08
ABNL4	R1859825-4	ABNL4	07/30/24 21:33
ABNL3	R1859825-3	ABNL3	07/30/24 21:59
ABNL2	R1859825-2	ABNL2	07/30/24 22:24
ABNL1	R1859825-1	ABNL1	07/30/24 22:50
AP9L9	R1859825-27	AP9L9	07/30/24 23:15
AP9L8	R1859825-26	AP9L8	07/30/24 23:40
AP9L7	R1859825-24	AP9L7	07/31/24 00:06
AP9L6	R1859825-25	AP9L6	07/31/24 00:31
AP9L5	R1859825-23	AP9L5	07/31/24 00:57
AP9L4	R1859825-21	AP9L4	07/31/24 01:22
AP9L3	R1859825-22	AP9L3	07/31/24 01:47
AP9L2	R1859825-20	AP9L2	07/31/24 02:13
AP9L1	R1859825-19	AP9L1	07/31/24 02:38
ABN ICV Quant Report	R1859825-28	ABNICV	07/31/24 03:03
AP9 ICV Quant Report	R1859825-30	AP9ICV	07/31/24 03:29

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 07/31/24 03:54
Tune Standard	: R1859825-32	**Tune File ID**	: Tune2_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	30.9
68	Less than 2.0% of mass 69	0.4 (1.4)1
69		100
70	Less than 2.0% of mass 69	0.1 (.5)1
127	10.0 - 80.0% of Base Peak	44.1
197	Less than 2.0% of mass 198	0.7
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	22
365	Greater than 1.0% of mass 198	2.5
441	Present, but less than 24% of mass 442	17
442	Base Peak, or >50% of mass 198	85
443	15.0 - 24.0% of mass 442	17 (19.9)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
ADPL9	R1859825-18	ADPL9	07/31/24 04:19
ADPL8	R1859825-17	ADPL8	07/31/24 04:45
ADPL7	R1859825-16	ADPL7	07/31/24 05:10
ADPL6	R1859825-15	ADPL6	07/31/24 05:35
ADPL5	R1859825-14	ADPL5	07/31/24 06:01
ADPL4	R1859825-12	ADPL4	07/31/24 06:26
ADPL3	R1859825-13	ADPL3	07/31/24 06:52
ADPL2	R1859825-11	ADPL2	07/31/24 07:17
ADPL1	R1859825-10	ADPL1	07/31/24 07:43
ADP ICV Quant Report	R1859825-29	ADPICV	07/31/24 08:08

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 12/16/24 22:48
Tune Standard	: WG2008657-1	**Tune File ID**	: DEG1216n_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	34.3
68	Less than 2.0% of mass 69	0.6 (1.5)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	46.3
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	6.9
275	10.0 - 60.0% of Base Peak	23.6
365	Greater than 1.0% of mass 198	2.8
441	Present, but less than 24% of mass 442	17.2
442	Base Peak, or >50% of mass 198	69.6
443	15.0 - 24.0% of mass 442	13.5 (19.3)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
WG2008657-6TFACTOR-P	WG2008657-6	DEG1216N	12/16/24 22:48
WG2008657-7TFACTOR-B	WG2008657-7	DEG1216N	12/16/24 22:48
WG2008657-3CCAL	WG2008657-3	ABN1216N	12/16/24 23:14
WG2008657-4CCAL	WG2008657-4	AP91216N	12/16/24 23:40
WG2008657-5CCAL	WG2008657-5	ADP1216N	12/17/24 00:06
WG2009399-1BLANK	WG2009399-1	009399-1	12/17/24 01:48
WG2009399-2LCS	WG2009399-2	009399-2	12/17/24 02:13
WG2009399-3LCSD	WG2009399-3	009399-3	12/17/24 02:39

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
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**	: L2473162
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: DAKOTA	**Analysis Date**	: 12/16/24 23:06
Tune Standard	: WG2009953-1	**Tune File ID**	: DEG1216na_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	39
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	49.2
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	6.7
275	10.0 - 60.0% of Base Peak	27.2
365	Greater than 1.0% of mass 198	3.5
441	Present, but less than 24% of mass 442	18.1
442	Base Peak, or >50% of mass 198	83.3
443	15.0 - 24.0% of mass 442	16.9 (20.3)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
WG2009953-6TFACTOR-P	WG2009953-6	DEG1216NA	12/16/24 23:06
WG2009953-7TFACTOR-B	WG2009953-7	DEG1216NA	12/16/24 23:06
WG2009953-3CCAL	WG2009953-3	ABN1216NA	12/16/24 23:28
WG2009953-4CCAL	WG2009953-4	AP91216NA	12/16/24 23:50
WG2009953-5CCAL	WG2009953-5	ADP1216NA	12/17/24 00:13
MW-11S	L2473162-01	73162-01	12/17/24 03:56
MW-11D	L2473162-02	73162-02	12/17/24 04:19
MW-1SR	L2473162-03	73162-03	12/17/24 04:41
MW-1DR2	L2473162-04	73162-04	12/17/24 05:03
MP-1	L2473162-05	73162-05	12/17/24 05:26
WG2009399-4MS	WG2009399-4	009399-4	12/17/24 05:48
WG2009399-5MSD	WG2009399-5	009399-5	12/17/24 06:10
MP-1D	L2473162-06	73162-06	12/17/24 06:33
DUP_121224	L2473162-07	73162-07	12/17/24 06:55
MW-13S	L2473162-08	73162-08	12/17/24 07:17
MW-13D	L2473162-09	73162-09	12/17/24 07:40
EB_121224	L2473162-10	73162-10	12/17/24 08:02

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 12/16/24 23:14:00
Sample No	: WG2008657-3	**Lab File ID**	: ABN1216N

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG2008657-3	13003	6.43	46064	7.85	29301	9.61
Upper Limit	26006	6.93	92128	8.35	58602	10.11
Lower Limit	6502	5.93	23032	7.35	14651	9.11
Sample ID						
WG2008657-4 CCAL	17952	6.43	60982	7.85	35583	9.61
WG2008657-5 CCAL	20785	6.43	-	-	40587	9.61
WG2009399-1 BLANK	11363	6.43	40470	7.85	24971	9.61
WG2009399-2 LCS	12581	6.43	46006	7.85	28595	9.61
WG2009399-3 LCSD	12774	6.43	44857	7.85	27256	9.61

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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 12/16/24 23:14:00
Sample No	: WG2008657-3	**Lab File ID**	: ABN1216N

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG2008657-3	62102	11.04	57573	13.67	60333	15.12
Upper Limit	124204	11.54	115146	14.17	120666	15.62
Lower Limit	31051	10.54	28787	13.17	30167	14.62
Sample ID						
WG2008657-4 CCAL	75212	11.04	-	-	-	-
WG2008657-5 CCAL	86632	11.04	-	-	-	-
WG2009399-1 BLANK	51054	11.04	45672	13.67	45755	15.13
WG2009399-2 LCS	59939	11.04	57425	13.67	55305	15.12
WG2009399-3 LCSD	54385	11.04	50423	13.67	55044	15.13

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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: DAKOTA	**Analysis Date**	: 12/16/24 23:28:00
Sample No	: WG2009953-3	**Lab File ID**	: ABN1216NA

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG2009953-3	26484	3.64	99668	4.90	68055	6.58
Upper Limit	52968	4.14	199336	5.40	136110	7.08
Lower Limit	13242	3.14	49834	4.40	34028	6.08
Sample ID						
WG2009953-4 CCAL	26042	3.64	95704	4.90	62423	6.58
WG2009953-5 CCAL	25757	3.64	-	-	60461	6.58
MW-11S	29476	3.64	110181	4.90	71069	6.58
MW-11D	28891	3.64	108938	4.90	70620	6.58
MW-1SR	29063	3.64	107678	4.90	68945	6.58
MW-1DR2	26960	3.64	103556	4.90	67023	6.58
MP-1	32120	3.64	124064	4.90	82624	6.58
MP-1D MS	29671	3.64	113304	4.90	74908	6.58
MP-1D MSD	29901	3.64	111692	4.90	73770	6.58
MP-1D	31462	3.64	118500	4.90	79328	6.58
DUP_121224	31934	3.64	121105	4.90	81327	6.58
MW-13S	31891	3.64	122731	4.90	80879	6.58
MW-13D	29854	3.64	116138	4.90	77085	6.58
EB_121224	31544	3.64	119343	4.90	79535	6.58

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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: DAKOTA	**Analysis Date**	: 12/16/24 23:28:00
Sample No	: WG2009953-3	**Lab File ID**	: ABN1216NA

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG2009953-3	150638	7.97	177601	10.48	203764	11.83
Upper Limit	301276	8.47	355202	10.98	407528	12.33
Lower Limit	75319	7.47	88801	9.98	101882	11.33
Sample ID						
WG2009953-4 CCAL	144387	7.97	-	-	-	-
WG2009953-5 CCAL	137555	7.97	-	-	-	-
MW-11S	162520	7.97	180743	10.47	219880	11.82
MW-11D	158614	7.97	182470	10.47	217676	11.82
MW-1SR	155984	7.97	181456	10.47	214859	11.82
MW-1DR2	154849	7.97	176418	10.47	210977	11.82
MP-1	192137	7.97	221192	10.47	266785	11.82
MP-1D MS	163603	7.97	188784	10.47	222314	11.82
MP-1D MSD	166185	7.97	185354	10.47	222775	11.82
MP-1D	180114	7.97	203478	10.47	246638	11.82
DUP_121224	189385	7.97	214283	10.47	259700	11.82
MW-13S	191756	7.97	223008	10.47	261729	11.82
MW-13D	178265	7.97	210046	10.47	253196	11.82
EB_121224	190261	7.97	215168	10.47	259823	11.82

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			

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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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-01	**Date Collected**	: 12/12/24 08:25
Client ID	: MW-11S	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/17/24 03:56
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 73162-01	**Analyst**	: SMZ
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-01	**Date Collected**	: 12/12/24 08:25
Client ID	: MW-11S	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/17/24 03:56
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 73162-01	**Analyst**	: SMZ
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-02	**Date Collected**	: 12/12/24 08:42
Client ID	: MW-11D	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/17/24 04:19
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 73162-02	**Analyst**	: SMZ
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-02	**Date Collected**	: 12/12/24 08:42
Client ID	: MW-11D	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/17/24 04:19
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 73162-02	**Analyst**	: SMZ
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-03	**Date Collected**	: 12/12/24 09:50
Client ID	: MW-1SR	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/17/24 04:41
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 73162-03	**Analyst**	: SMZ
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-03	**Date Collected**	: 12/12/24 09:50
Client ID	: MW-1SR	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/17/24 04:41
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 73162-03	**Analyst**	: SMZ
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	2.3	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-04	**Date Collected**	: 12/12/24 10:10
Client ID	: MW-1DR2	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/17/24 05:03
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 73162-04	**Analyst**	: SMZ
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-04	**Date Collected**	: 12/12/24 10:10
Client ID	: MW-1DR2	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/17/24 05:03
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 73162-04	**Analyst**	: SMZ
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-05	**Date Collected**	: 12/12/24 11:40
Client ID	: MP-1	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/17/24 05:26
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 73162-05	**Analyst**	: SMZ
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	3.5	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-05	**Date Collected**	: 12/12/24 11:40
Client ID	: MP-1	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/17/24 05:26
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 73162-05	**Analyst**	: SMZ
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	1.0	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-06	**Date Collected**	: 12/12/24 12:05
Client ID	: MP-1D	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/17/24 06:33
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 73162-06	**Analyst**	: SMZ
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-06	**Date Collected**	: 12/12/24 12:05
Client ID	: MP-1D	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/17/24 06:33
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 73162-06	**Analyst**	: SMZ
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	3.1	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-07	**Date Collected**	: 12/12/24 12:00
Client ID	: DUP_121224	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/17/24 06:55
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 73162-07	**Analyst**	: SMZ
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-07	**Date Collected**	: 12/12/24 12:00
Client ID	: DUP_121224	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/17/24 06:55
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 73162-07	**Analyst**	: SMZ
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	2.3	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-08	**Date Collected**	: 12/12/24 14:00
Client ID	: MW-13S	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/17/24 07:17
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 73162-08	**Analyst**	: SMZ
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-08	**Date Collected**	: 12/12/24 14:00
Client ID	: MW-13S	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/17/24 07:17
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 73162-08	**Analyst**	: SMZ
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-09	**Date Collected**	: 12/12/24 14:05
Client ID	: MW-13D	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/17/24 07:40
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 73162-09	**Analyst**	: SMZ
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-09	**Date Collected**	: 12/12/24 14:05
Client ID	: MW-13D	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/17/24 07:40
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 73162-09	**Analyst**	: SMZ
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	0.87	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-10	**Date Collected**	: 12/12/24 13:30
Client ID	: EB_121224	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/17/24 08:02
Sample Matrix	: Equipment Blank	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 73162-10	**Analyst**	: SMZ
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-10	**Date Collected**	: 12/12/24 13:30
Client ID	: EB_121224	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/17/24 08:02
Sample Matrix	: Equipment Blank	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 73162-10	**Analyst**	: SMZ
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2009399-1	**Date Collected**	: NA
Client ID	: WG2009399-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/17/24 01:48
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 009399-1	**Analyst**	: LJG
Sample Amount	: 100 ml	**Instrument ID**	: SV107
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	1.5	5.0	0.96	J
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2009399-1	**Date Collected**	: NA
Client ID	: WG2009399-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/17/24 01:48
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 009399-1	**Analyst**	: LJG
Sample Amount	: 100 ml	**Instrument ID**	: SV107
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\Dakota\241216NARVT\
Data File : 73162-01.D
Acq On : 17 Dec 2024 3:56 am
Operator : Dakota:smz
Sample : L2473162-01,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 18 11:49:14 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.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...	3.636	152	29476	4.000	ug/ml	0.00
Standard Area 1 = 26484			Recovery = 111.30%			
27) IS2_1,4-Dichlorobenzen...	3.636	152	29476	4.000	ug/ml	0.00
Standard Area 3 = 26042			Recovery = 113.19%			
37) IS1_Naphthalene-d8	4.898	136	110181	4.000	ug/ml	# 0.00
Standard Area 1 = 99668			Recovery = 110.55%			
57) IS2_Naphthalene-d8	4.898	136	110181	4.000	ug/ml	# 0.00
Standard Area 3 = 95704			Recovery = 115.13%			
65) IS1_Acenaphthene-d10	6.577	164	71069	4.000	ug/ml	0.00
Standard Area 1 = 68055			Recovery = 104.43%			
85) IS2_Acenaphthene-d10	6.577	164	71069	4.000	ug/ml	0.00
Standard Area 3 = 62423			Recovery = 113.85%			
88) IS3_Acenaphthene-d10	6.577	164	71069	4.000	ug/ml	0.00
Standard Area 2 = 60461			Recovery = 117.55%			
90) IS1_Phenanthrene-d10	7.969	188	162520	4.000	ug/ml	0.00
Standard Area 1 = 150638			Recovery = 107.89%			
102) IS3_Phenanthrene-d10	7.969	188	162520	4.000	ug/ml	0.00
Standard Area 2 = 137555			Recovery = 118.15%			
106) IS1_Chrysene-d12	10.474	240	180743	4.000	ug/ml	0.00
Standard Area 1 = 177601			Recovery = 101.77%			
115) IS1_Perylene-d12	11.823	264	219880	4.000	ug/ml	0.00
Standard Area 1 = 203764			Recovery = 107.91%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.229	112	4577	0.604	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 30.20%			
7) Phenol-d6	3.372	99	4764	0.491	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 24.55%			
19) Nitrobenzene-d5	4.215	82	5086	0.578	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 57.80%			
48) 2-Fluorobiphenyl	5.983	172	14615	0.536	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 53.60%			
81) 2,4,6-Tribromophenol	7.329	330	3450	0.679	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 33.95%			
98) 4-Terphenyl-d14	9.539	244	26677	0.567	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 56.70%			

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-01.D
Acq On : 17 Dec 2024 3:56 am
Operator : Dakota:smz
Sample : L2473162-01,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 18 11:49:14 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.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.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-01.D
Acq On : 17 Dec 2024 3:56 am
Operator : Dakota:smz
Sample : L2473162-01,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 18 11:49:14 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.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.		
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	

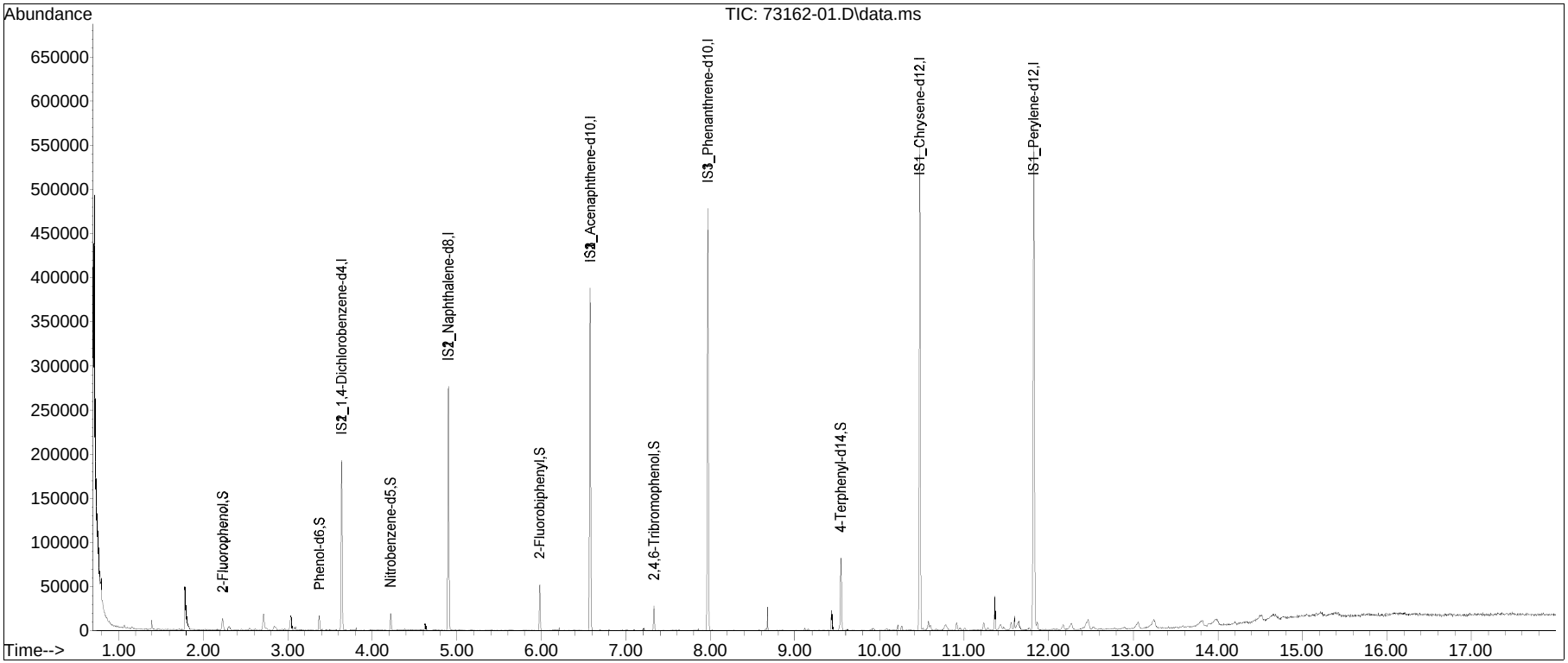
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-01.D
Acq On : 17 Dec 2024 3:56 am
Operator : Dakota:smz
Sample : L2473162-01,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 18 11:49:14 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA\AP91216na.D•



FS241105RVT_Dakota.m Wed Dec 18 11:58:10 2024 Page: 4

Manual Integration Report

Data Path	: I:\8270\Dakota\241216NARVTQ	Method	: FS241105RVT_Dakota.m
Data File	: 73162-01.D	Operator	: Dakota:smz
Date Inj'd	: 12/17/2024 3:56 am	Instrument	: Dakota
Sample	: L2473162-01,32,,ASK	Quant Date	: 12/17/2024 4:15 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-02.D
Acq On : 17 Dec 2024 4:19 am
Operator : Dakota:smz
Sample : L2473162-02,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 18 11:49:33 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.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...	3.636	152	28891	4.000	ug/ml		0.00
Standard Area 1 = 26484			Recovery = 109.09%				
27) IS2_1,4-Dichlorobenzen...	3.636	152	28891	4.000	ug/ml		0.00
Standard Area 3 = 26042			Recovery = 110.94%				
37) IS1_Naphthalene-d8	4.898	136	108938	4.000	ug/ml	#	0.00
Standard Area 1 = 99668			Recovery = 109.30%				
57) IS2_Naphthalene-d8	4.898	136	108938	4.000	ug/ml	#	0.00
Standard Area 3 = 95704			Recovery = 113.83%				
65) IS1_Acenaphthene-d10	6.577	164	70620	4.000	ug/ml		0.00
Standard Area 1 = 68055			Recovery = 103.77%				
85) IS2_Acenaphthene-d10	6.577	164	70620	4.000	ug/ml		0.00
Standard Area 3 = 62423			Recovery = 113.13%				
88) IS3_Acenaphthene-d10	6.577	164	70620	4.000	ug/ml		0.00
Standard Area 2 = 60461			Recovery = 116.80%				
90) IS1_Phenanthrene-d10	7.969	188	158614	4.000	ug/ml		0.00
Standard Area 1 = 150638			Recovery = 105.29%				
102) IS3_Phenanthrene-d10	7.969	188	158614	4.000	ug/ml		0.00
Standard Area 2 = 137555			Recovery = 115.31%				
106) IS1_Chrysene-d12	10.474	240	182470	4.000	ug/ml		0.00
Standard Area 1 = 177601			Recovery = 102.74%				
115) IS1_Perylene-d12	11.823	264	217676	4.000	ug/ml		0.00
Standard Area 1 = 203764			Recovery = 106.83%				
System Monitoring Compounds							
4) 2-Fluorophenol	2.228	112	5684	0.765	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 38.25%				
7) Phenol-d6	3.369	99	5477	0.576	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 28.80%				
19) Nitrobenzene-d5	4.218	82	5240	0.607	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 60.70%				
48) 2-Fluorobiphenyl	5.983	172	16240	0.602	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 60.20%				
81) 2,4,6-Tribromophenol	7.329	330	4501	0.892	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 44.60%				
98) 4-Terphenyl-d14	9.539	244	29250	0.637	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 63.70%				

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-02.D
Acq On : 17 Dec 2024 4:19 am
Operator : Dakota:smz
Sample : L2473162-02,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 18 11:49:33 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.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\241216NARVT\
Data File : 73162-02.D
Acq On : 17 Dec 2024 4:19 am
Operator : Dakota:smz
Sample : L2473162-02,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 18 11:49:33 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.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.		
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	

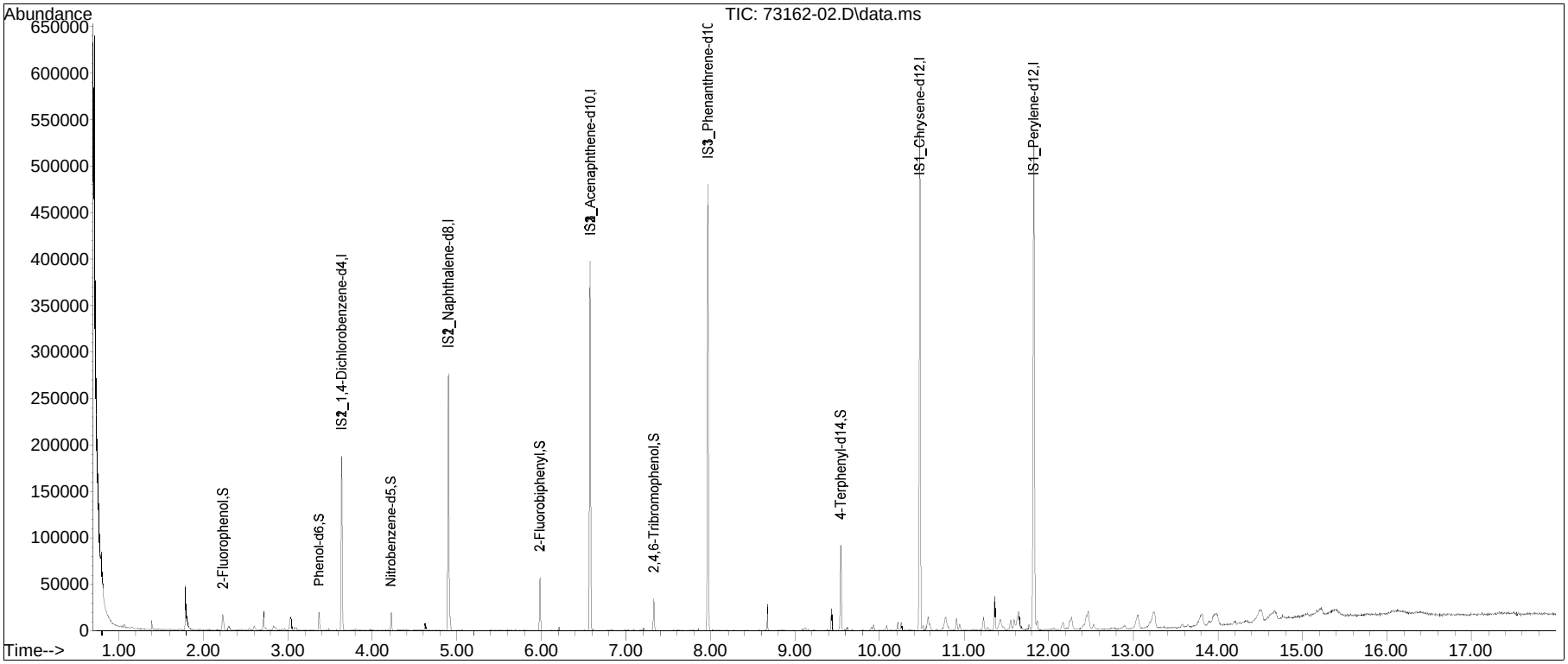
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-02.D
Acq On : 17 Dec 2024 4:19 am
Operator : Dakota:smz
Sample : L2473162-02,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 18 11:49:33 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA\AP91216na.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\241216NARVTQ	Method	: FS241105RVT_Dakota.m
Data File	: 73162-02.D	Operator	: Dakota:smz
Date Inj'd	: 12/17/2024 4:19 am	Instrument	: Dakota
Sample	: L2473162-02,32,,ASK	Quant Date	: 12/17/2024 4:37 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-03.D
Acq On : 17 Dec 2024 4:41 am
Operator : Dakota:smz
Sample : L2473162-03,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 18 11:49:58 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.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...	3.636	152	29063	4.000	ug/ml		0.00
Standard Area 1 = 26484			Recovery = 109.74%				
27) IS2_1,4-Dichlorobenzen...	3.636	152	29063	4.000	ug/ml		0.00
Standard Area 3 = 26042			Recovery = 111.60%				
37) IS1_Naphthalene-d8	4.898	136	107678	4.000	ug/ml	#	0.00
Standard Area 1 = 99668			Recovery = 108.04%				
57) IS2_Naphthalene-d8	4.898	136	107678	4.000	ug/ml	#	0.00
Standard Area 3 = 95704			Recovery = 112.51%				
65) IS1_Acenaphthene-d10	6.577	164	68945	4.000	ug/ml		0.00
Standard Area 1 = 68055			Recovery = 101.31%				
85) IS2_Acenaphthene-d10	6.577	164	68945	4.000	ug/ml		0.00
Standard Area 3 = 62423			Recovery = 110.45%				
88) IS3_Acenaphthene-d10	6.577	164	68945	4.000	ug/ml		0.00
Standard Area 2 = 60461			Recovery = 114.03%				
90) IS1_Phenanthrene-d10	7.969	188	155984	4.000	ug/ml		0.00
Standard Area 1 = 150638			Recovery = 103.55%				
102) IS3_Phenanthrene-d10	7.969	188	155984	4.000	ug/ml		0.00
Standard Area 2 = 137555			Recovery = 113.40%				
106) IS1_Chrysene-d12	10.474	240	181456	4.000	ug/ml		0.00
Standard Area 1 = 177601			Recovery = 102.17%				
115) IS1_Perylene-d12	11.823	264	214859	4.000	ug/ml		0.00
Standard Area 1 = 203764			Recovery = 105.45%				
System Monitoring Compounds							
4) 2-Fluorophenol	2.228	112	5870	0.786	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 39.30%				
7) Phenol-d6	3.372	99	5219	0.545	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 27.25%				
19) Nitrobenzene-d5	4.218	82	4989	0.575	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 57.50%				
48) 2-Fluorobiphenyl	5.983	172	15035	0.564	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 56.40%				
81) 2,4,6-Tribromophenol	7.329	330	5429	1.102	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 55.10%				
98) 4-Terphenyl-d14	9.539	244	29585	0.655	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 65.50%				

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-03.D
Acq On : 17 Dec 2024 4:41 am
Operator : Dakota:smz
Sample : L2473162-03,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 18 11:49:58 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.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	3.385	94	2340	0.227	ug/ml	95
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\241216NARVT\
Data File : 73162-03.D
Acq On : 17 Dec 2024 4:41 am
Operator : Dakota:smz
Sample : L2473162-03,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 18 11:49:58 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.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.		
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	

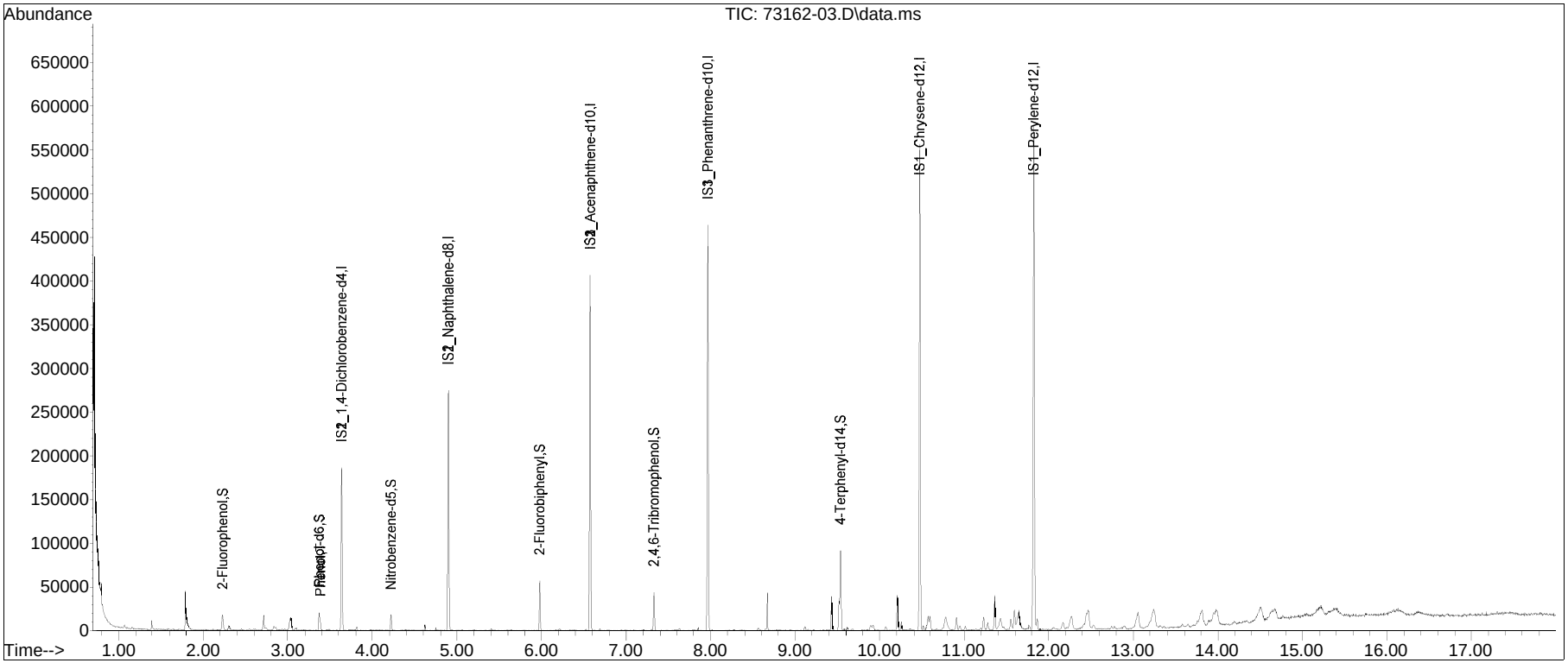
(#) = qualifier out of range (m) = manual integration (+) = signals summed

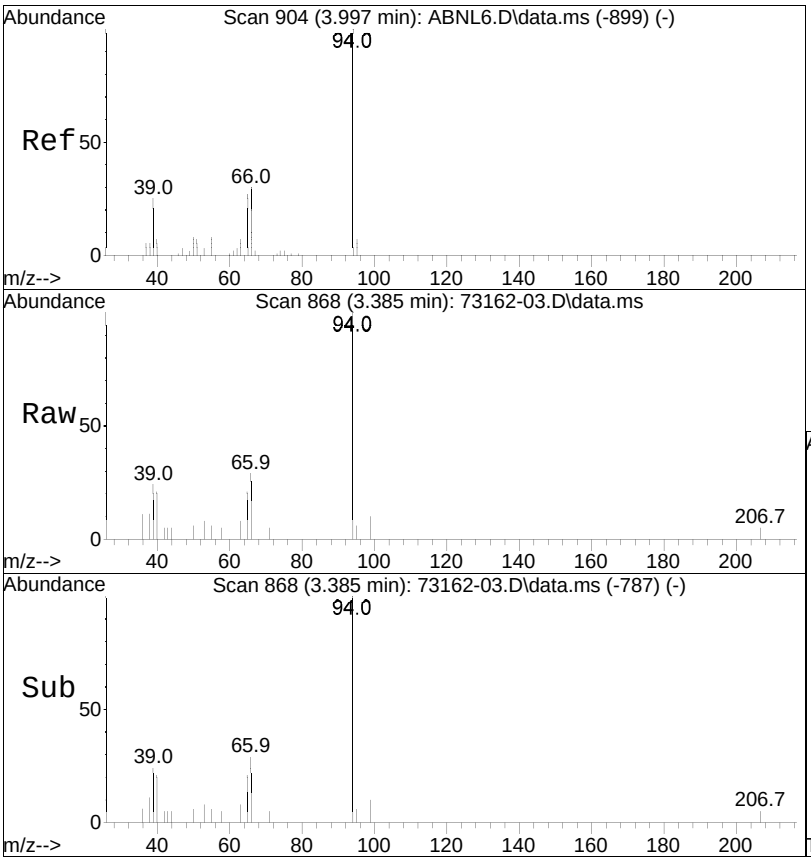
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-03.D
Acq On : 17 Dec 2024 4:41 am
Operator : Dakota:smz
Sample : L2473162-03,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 18 11:49:58 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA\AP91216na.D•

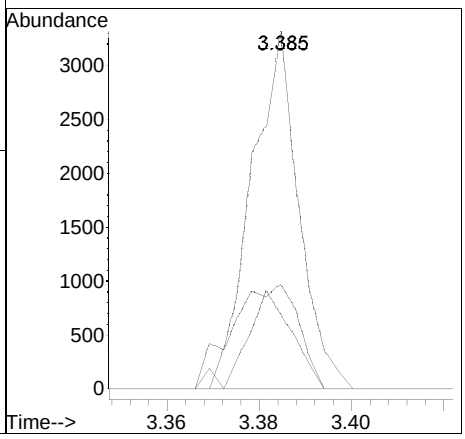




#8
Phenol
Concen: 0.23 ug/ml
RT: 3.385 min Scan# 868
Delta R.T. 0.003 min
Lab File: 73162-03.D
Acq: 17 Dec 2024 4:41 am

Tgt Ion: 94 Resp: 2340

Ion	Ratio	Lower	Upper
94	100		
65	26.7	26.0	39.0
66	41.6	33.8	50.8



Manual Integration Report

Data Path	: I:\8270\Dakota\241216NARVTQ	Method	: FS241105RVT_Dakota.m
Data File	: 73162-03.D	Operator	: Dakota:smz
Date Inj'd	: 12/17/2024 4:41 am	Instrument	: Dakota
Sample	: L2473162-03,32,,ASK	Quant Date	: 12/17/2024 4:59 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-04.D
Acq On : 17 Dec 2024 5:03 am
Operator : Dakota:smz
Sample : L2473162-04,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 18 11:50:23 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.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...	3.636	152	26960	4.000	ug/ml		0.00
Standard Area 1 = 26484			Recovery = 101.80%				
27) IS2_1,4-Dichlorobenzen...	3.636	152	26960	4.000	ug/ml		0.00
Standard Area 3 = 26042			Recovery = 103.53%				
37) IS1_Naphthalene-d8	4.898	136	103556	4.000	ug/ml	#	0.00
Standard Area 1 = 99668			Recovery = 103.90%				
57) IS2_Naphthalene-d8	4.898	136	103556	4.000	ug/ml	#	0.00
Standard Area 3 = 95704			Recovery = 108.20%				
65) IS1_Acenaphthene-d10	6.577	164	67023	4.000	ug/ml		0.00
Standard Area 1 = 68055			Recovery = 98.48%				
85) IS2_Acenaphthene-d10	6.577	164	67023	4.000	ug/ml		0.00
Standard Area 3 = 62423			Recovery = 107.37%				
88) IS3_Acenaphthene-d10	6.577	164	67023	4.000	ug/ml		0.00
Standard Area 2 = 60461			Recovery = 110.85%				
90) IS1_Phenanthrene-d10	7.969	188	154849	4.000	ug/ml		0.00
Standard Area 1 = 150638			Recovery = 102.80%				
102) IS3_Phenanthrene-d10	7.969	188	154849	4.000	ug/ml		0.00
Standard Area 2 = 137555			Recovery = 112.57%				
106) IS1_Chrysene-d12	10.474	240	176418	4.000	ug/ml		0.00
Standard Area 1 = 177601			Recovery = 99.33%				
115) IS1_Perylene-d12	11.823	264	210977	4.000	ug/ml		0.00
Standard Area 1 = 203764			Recovery = 103.54%				
System Monitoring Compounds							
4) 2-Fluorophenol	2.228	112	5644	0.814	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 40.70%				
7) Phenol-d6	3.372	99	5188	0.584	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 29.20%				
19) Nitrobenzene-d5	4.214	82	5816	0.722	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 72.20%				
48) 2-Fluorobiphenyl	5.980	172	16288	0.635	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 63.50%				
81) 2,4,6-Tribromophenol	7.329	330	4592	0.959	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 47.95%				
98) 4-Terphenyl-d14	9.539	244	30684	0.685	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 68.50%				

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-04.D
Acq On : 17 Dec 2024 5:03 am
Operator : Dakota:smz
Sample : L2473162-04,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 18 11:50:23 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.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.	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.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-04.D
Acq On : 17 Dec 2024 5:03 am
Operator : Dakota:smz
Sample : L2473162-04,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 18 11:50:23 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.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	

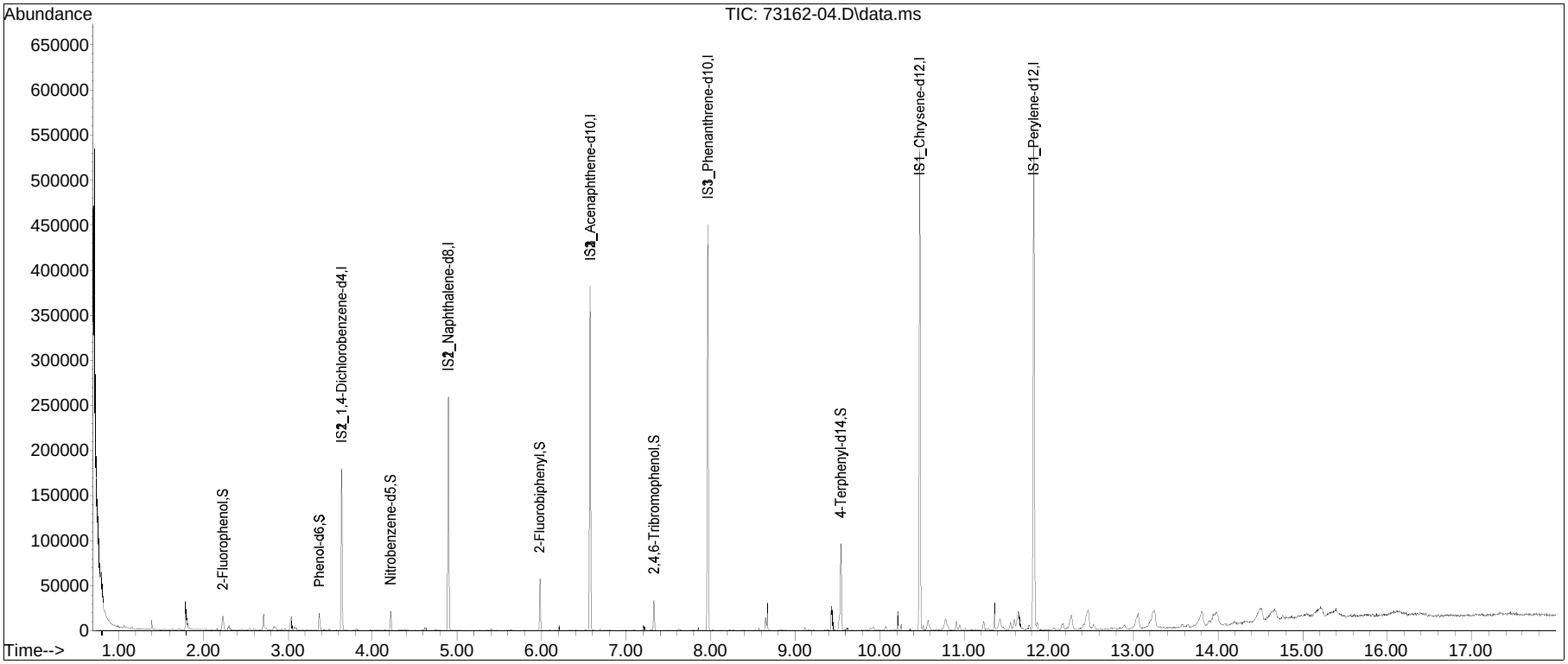
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-04.D
Acq On : 17 Dec 2024 5:03 am
Operator : Dakota:smz
Sample : L2473162-04,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 18 11:50:23 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA\AP91216na.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\241216NARVTQ	Method	: FS241105RVT_Dakota.m
Data File	: 73162-04.D	Operator	: Dakota:smz
Date Inj'd	: 12/17/2024 5:03 am	Instrument	: Dakota
Sample	: L2473162-04,32,,ASK	Quant Date	: 12/17/2024 5:22 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-05.D
Acq On : 17 Dec 2024 5:26 am
Operator : Dakota:smz
Sample : L2473162-05,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 18 11:51:48 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.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...	3.636	152	32120	4.000	ug/ml		0.00
Standard Area 1 = 26484			Recovery = 121.28%				
27) IS2_1,4-Dichlorobenzen...	3.636	152	32120	4.000	ug/ml		0.00
Standard Area 3 = 26042			Recovery = 123.34%				
37) IS1_Naphthalene-d8	4.898	136	124064	4.000	ug/ml	#	0.00
Standard Area 1 = 99668			Recovery = 124.48%				
57) IS2_Naphthalene-d8	4.898	136	124064	4.000	ug/ml	#	0.00
Standard Area 3 = 95704			Recovery = 129.63%				
65) IS1_Acenaphthene-d10	6.577	164	82624	4.000	ug/ml		0.00
Standard Area 1 = 68055			Recovery = 121.41%				
85) IS2_Acenaphthene-d10	6.577	164	82624	4.000	ug/ml		0.00
Standard Area 3 = 62423			Recovery = 132.36%				
88) IS3_Acenaphthene-d10	6.577	164	82624	4.000	ug/ml		0.00
Standard Area 2 = 60461			Recovery = 136.66%				
90) IS1_Phenanthrene-d10	7.969	188	192137	4.000	ug/ml		0.00
Standard Area 1 = 150638			Recovery = 127.55%				
102) IS3_Phenanthrene-d10	7.969	188	192137	4.000	ug/ml		0.00
Standard Area 2 = 137555			Recovery = 139.68%				
106) IS1_Chrysene-d12	10.474	240	221192	4.000	ug/ml		0.00
Standard Area 1 = 177601			Recovery = 124.54%				
115) IS1_Perylene-d12	11.823	264	266785	4.000	ug/ml		0.00
Standard Area 1 = 203764			Recovery = 130.93%				
System Monitoring Compounds							
4) 2-Fluorophenol	2.228	112	5652	0.684	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 34.20%				
7) Phenol-d6	3.369	99	5543	0.524	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 26.20%				
19) Nitrobenzene-d5	4.218	82	5895	0.614	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 61.40%				
48) 2-Fluorobiphenyl	5.983	172	15858	0.516	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 51.60%				
81) 2,4,6-Tribromophenol	7.329	330	4356	0.738	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 36.90%				
98) 4-Terphenyl-d14	9.539	244	30587	0.550	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 55.00%				

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-05.D
Acq On : 17 Dec 2024 5:26 am
Operator : Dakota:smz
Sample : L2473162-05,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 18 11:51:48 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.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	3.382	94	1171	0.103	ug/ml#	59
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\241216NARVT\
Data File : 73162-05.D
Acq On : 17 Dec 2024 5:26 am
Operator : Dakota:smz
Sample : L2473162-05,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 18 11:51:48 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.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.		
99) Butyl benzyl phthalate	0.000		0	N.D.		
108) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
110) Bis(2-ethylhexyl)phtha...	10.676	149	13958	0.347	ug/ml#	88
111) Di-n-octylphthalate	0.000		0	N.D. d		

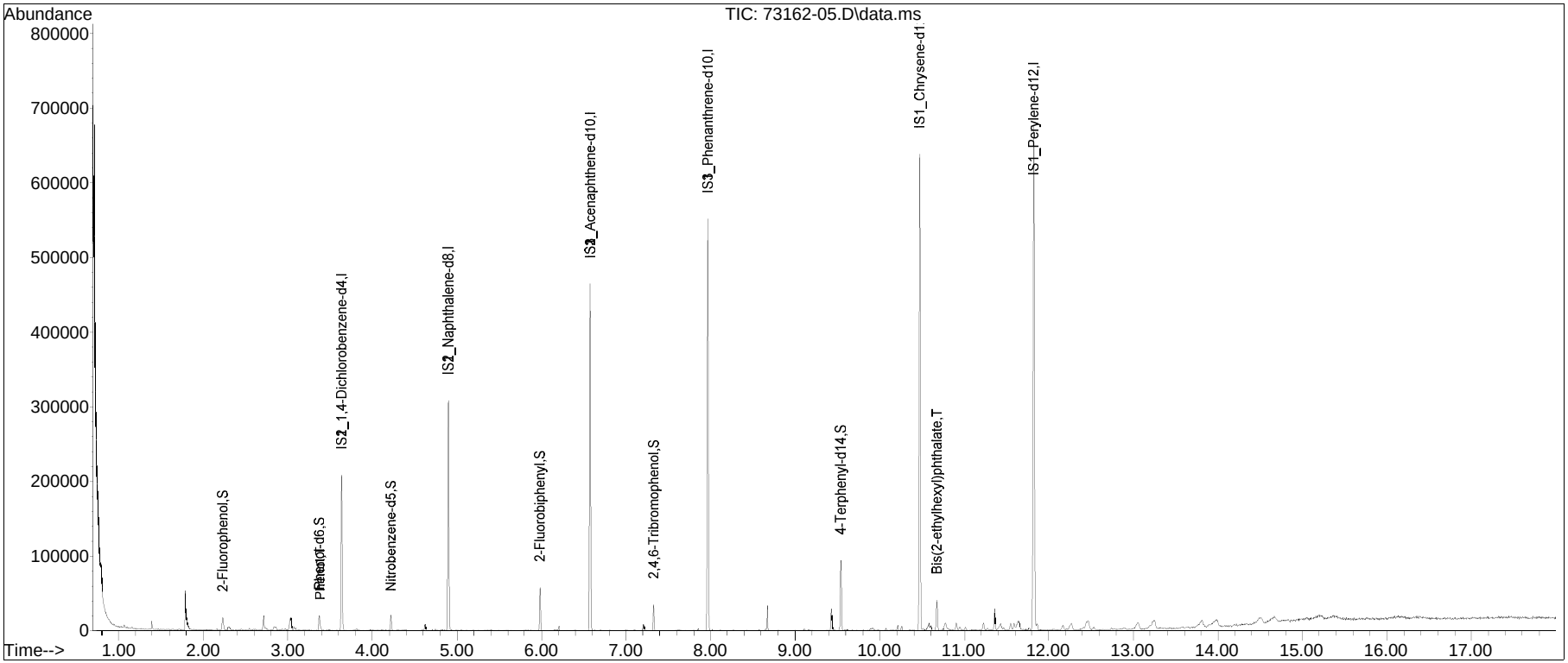
(#) = qualifier out of range (m) = manual integration (+) = signals summed

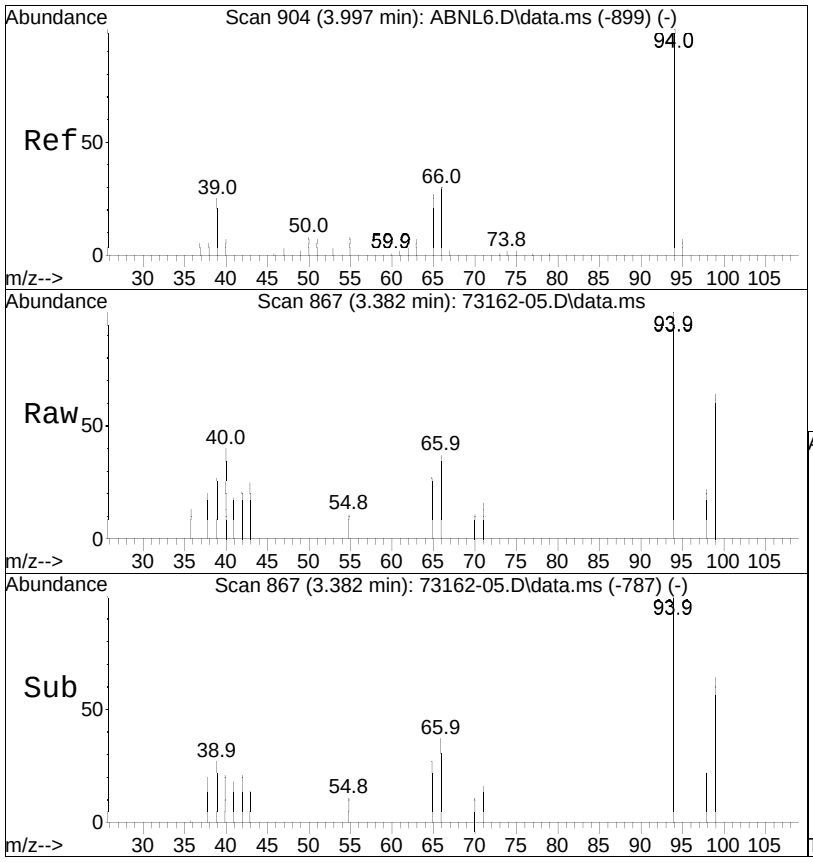
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-05.D
Acq On : 17 Dec 2024 5:26 am
Operator : Dakota:smz
Sample : L2473162-05,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 18 11:51:48 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA\AP91216na.D•

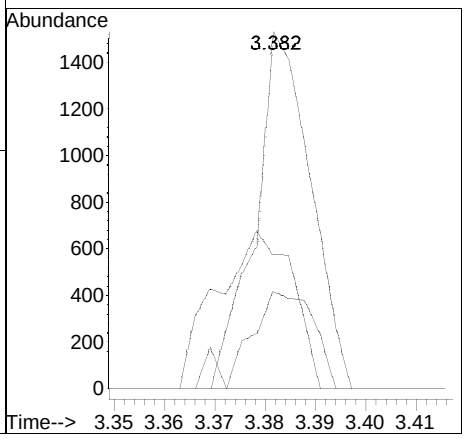


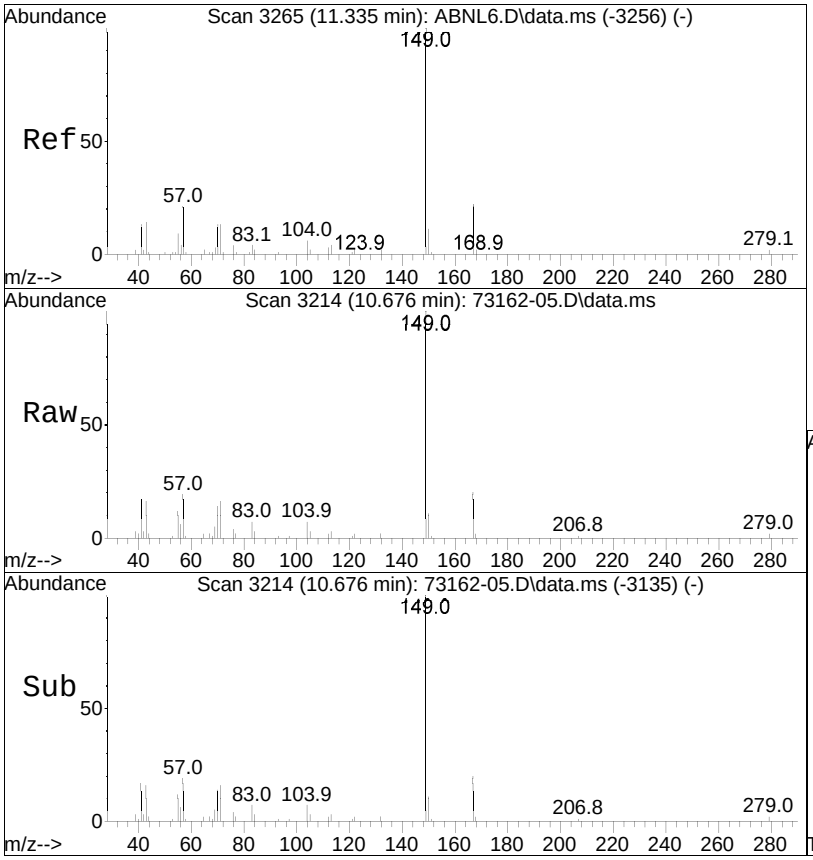


#8
Phenol
Concen: 0.10 ug/ml
RT: 3.382 min Scan# 867
Delta R.T. -0.000 min
Lab File: 73162-05.D
Acq: 17 Dec 2024 5:26 am

Tgt Ion: 94 Resp: 1171

Ion	Ratio	Lower	Upper
94	100		
65	0.0	26.0	39.0#
66	60.3	33.8	50.8#

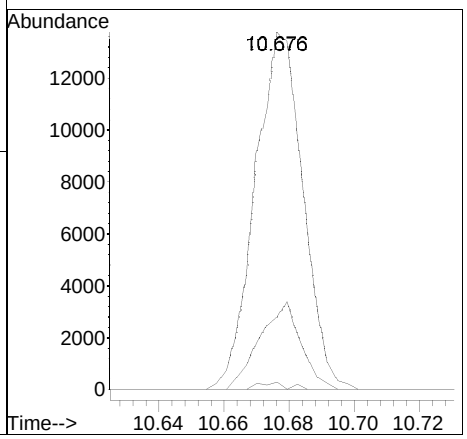




#110
Bis(2-ethylhexyl)phthalate
Concen: 0.35 ug/ml
RT: 10.676 min Scan# 3214
Delta R.T. -0.003 min
Lab File: 73162-05.D
Acq: 17 Dec 2024 5:26 am

Tgt Ion:149 Resp: 13958

Ion	Ratio	Lower	Upper
149	100		
167	21.3	22.1	33.1#
279	0.0	3.0	4.4#



Manual Integration Report

Data Path	: I:\8270\Dakota\241216NARVTQ	Method	: FS241105RVT_Dakota.m
Data File	: 73162-05.D	Operator	: Dakota:smz
Date Inj'd	: 12/17/2024 5:26 am	Instrument	: Dakota
Sample	: L2473162-05,32,,ASK	Quant Date	: 12/17/2024 5:44 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-06.D
Acq On : 17 Dec 2024 6:33 am
Operator : Dakota:smz
Sample : L2473162-06,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 18 11:52:06 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.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...	3.636	152	31462	4.000	ug/ml		0.00
Standard Area 1 = 26484			Recovery = 118.80%				
27) IS2_1,4-Dichlorobenzen...	3.636	152	31462	4.000	ug/ml		0.00
Standard Area 3 = 26042			Recovery = 120.81%				
37) IS1_Naphthalene-d8	4.895	136	118500	4.000	ug/ml	#	0.00
Standard Area 1 = 99668			Recovery = 118.89%				
57) IS2_Naphthalene-d8	4.895	136	118500	4.000	ug/ml	#	0.00
Standard Area 3 = 95704			Recovery = 123.82%				
65) IS1_Acenaphthene-d10	6.577	164	79328	4.000	ug/ml		0.00
Standard Area 1 = 68055			Recovery = 116.56%				
85) IS2_Acenaphthene-d10	6.577	164	79328	4.000	ug/ml		0.00
Standard Area 3 = 62423			Recovery = 127.08%				
88) IS3_Acenaphthene-d10	6.577	164	79328	4.000	ug/ml		0.00
Standard Area 2 = 60461			Recovery = 131.21%				
90) IS1_Phenanthrene-d10	7.969	188	180114	4.000	ug/ml		0.00
Standard Area 1 = 150638			Recovery = 119.57%				
102) IS3_Phenanthrene-d10	7.969	188	180114	4.000	ug/ml		0.00
Standard Area 2 = 137555			Recovery = 130.94%				
106) IS1_Chrysene-d12	10.474	240	203478	4.000	ug/ml		0.00
Standard Area 1 = 177601			Recovery = 114.57%				
115) IS1_Perylene-d12	11.823	264	246638	4.000	ug/ml		0.00
Standard Area 1 = 203764			Recovery = 121.04%				
System Monitoring Compounds							
4) 2-Fluorophenol	2.225	112	5730	0.708	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 35.40%				
7) Phenol-d6	3.369	99	5168	0.499	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 24.95%				
19) Nitrobenzene-d5	4.214	82	4630	0.493	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 49.30%				
48) 2-Fluorobiphenyl	5.983	172	13958	0.476	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 47.60%				
81) 2,4,6-Tribromophenol	7.329	330	5899	1.040	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 52.00%				
98) 4-Terphenyl-d14	9.539	244	25040	0.480	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 48.00%				

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-06.D
Acq On : 17 Dec 2024 6:33 am
Operator : Dakota:smz
Sample : L2473162-06,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 18 11:52:06 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.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	3.381	94	3511	0.314	ug/ml#	89
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.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-06.D
Acq On : 17 Dec 2024 6:33 am
Operator : Dakota:smz
Sample : L2473162-06,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 18 11:52:06 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.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.		
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	

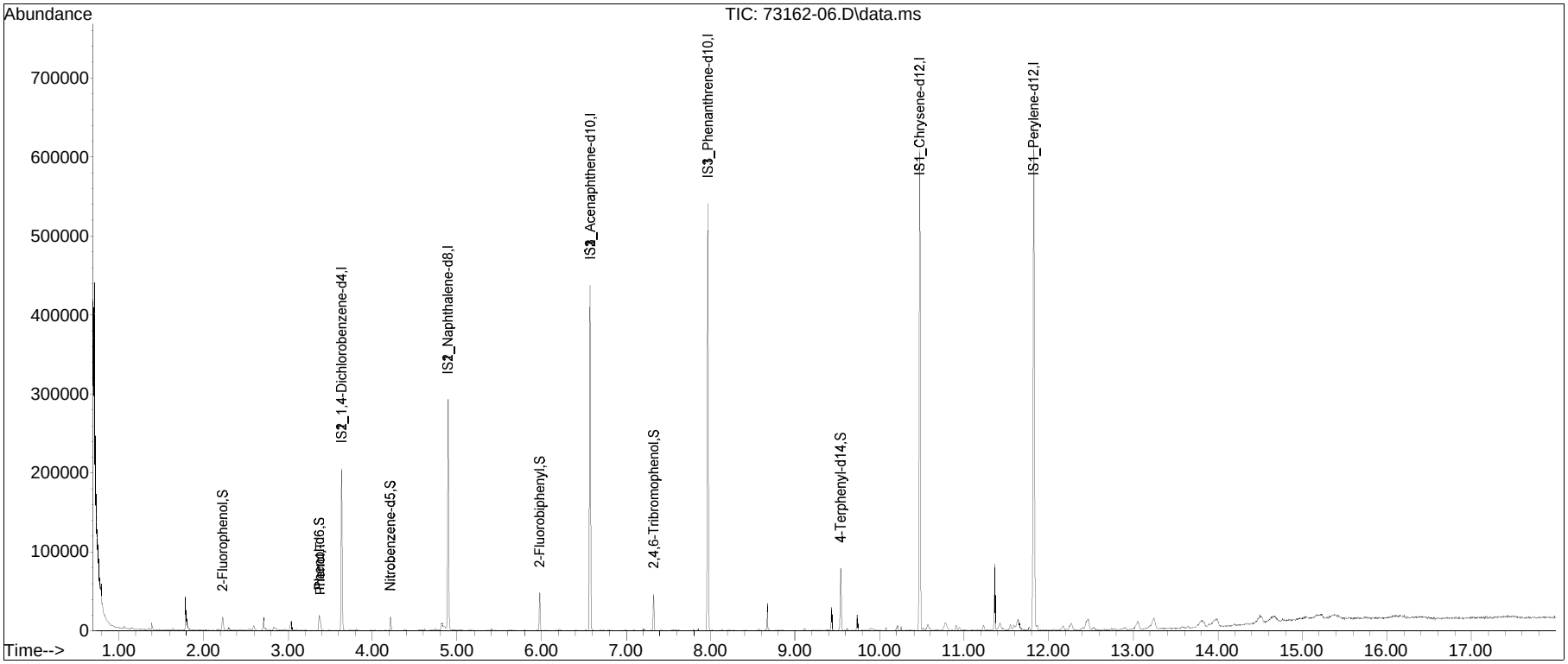
(#) = qualifier out of range (m) = manual integration (+) = signals summed

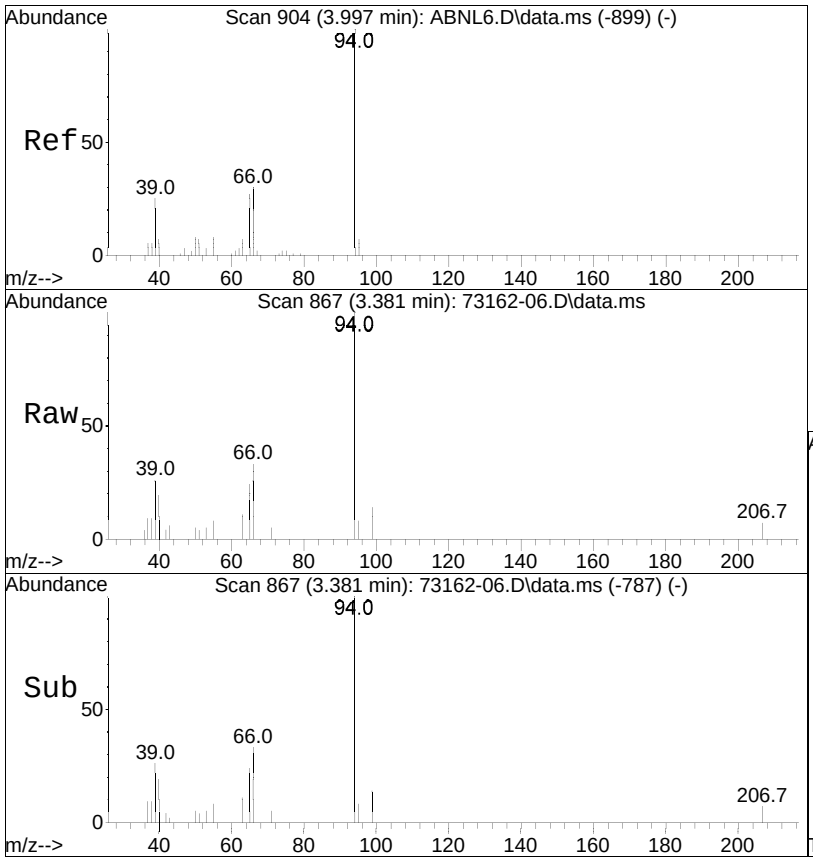
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-06.D
Acq On : 17 Dec 2024 6:33 am
Operator : Dakota:smz
Sample : L2473162-06,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 18 11:52:06 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA\AP91216na.D•

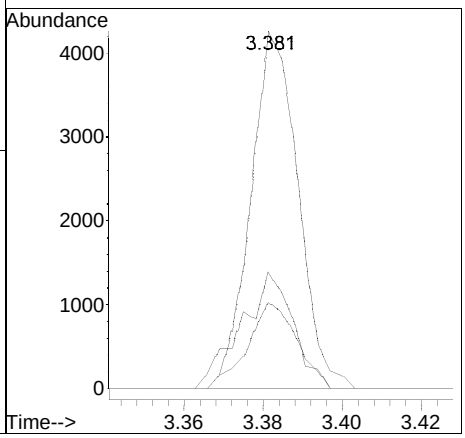




#8
Phenol
Concen: 0.31 ug/ml
RT: 3.381 min Scan# 867
Delta R.T. -0.000 min
Lab File: 73162-06.D
Acq: 17 Dec 2024 6:33 am

Tgt Ion: 94 Resp: 3511

Ion	Ratio	Lower	Upper
94	100		
65	25.1	26.0	39.0#
66	36.0	33.8	50.8



Manual Integration Report

Data Path	: I:\8270\Dakota\241216NARVTQ	Method	: FS241105RVT_Dakota.m
Data File	: 73162-06.D	Operator	: Dakota:smz
Date Inj'd	: 12/17/2024 6:33 am	Instrument	: Dakota
Sample	: L2473162-06,32,,ASK	Quant Date	: 12/17/2024 6:51 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-07.D
Acq On : 17 Dec 2024 6:55 am
Operator : Dakota:smz
Sample : L2473162-07,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 18 11:52:30 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.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...	3.636	152	31934	4.000	ug/ml		0.00
Standard Area 1 = 26484			Recovery = 120.58%				
27) IS2_1,4-Dichlorobenzen...	3.636	152	31934	4.000	ug/ml		0.00
Standard Area 3 = 26042			Recovery = 122.62%				
37) IS1_Naphthalene-d8	4.898	136	121105	4.000	ug/ml	#	0.00
Standard Area 1 = 99668			Recovery = 121.51%				
57) IS2_Naphthalene-d8	4.898	136	121105	4.000	ug/ml	#	0.00
Standard Area 3 = 95704			Recovery = 126.54%				
65) IS1_Acenaphthene-d10	6.577	164	81327	4.000	ug/ml		0.00
Standard Area 1 = 68055			Recovery = 119.50%				
85) IS2_Acenaphthene-d10	6.577	164	81327	4.000	ug/ml		0.00
Standard Area 3 = 62423			Recovery = 130.28%				
88) IS3_Acenaphthene-d10	6.577	164	81327	4.000	ug/ml		0.00
Standard Area 2 = 60461			Recovery = 134.51%				
90) IS1_Phenanthrene-d10	7.969	188	189385	4.000	ug/ml		0.00
Standard Area 1 = 150638			Recovery = 125.72%				
102) IS3_Phenanthrene-d10	7.969	188	189385	4.000	ug/ml		0.00
Standard Area 2 = 137555			Recovery = 137.68%				
106) IS1_Chrysene-d12	10.474	240	214283	4.000	ug/ml		0.00
Standard Area 1 = 177601			Recovery = 120.65%				
115) IS1_Perylene-d12	11.823	264	259700	4.000	ug/ml		0.00
Standard Area 1 = 203764			Recovery = 127.45%				
System Monitoring Compounds							
4) 2-Fluorophenol	2.228	112	5778	0.704	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 35.20%				
7) Phenol-d6	3.369	99	5332	0.507	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 25.35%				
19) Nitrobenzene-d5	4.214	82	5488	0.575	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 57.50%				
48) 2-Fluorobiphenyl	5.983	172	15518	0.518	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 51.80%				
81) 2,4,6-Tribromophenol	7.329	330	5062	0.871	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 43.55%				
98) 4-Terphenyl-d14	9.539	244	30481	0.556	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 55.60%				

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-07.D
Acq On : 17 Dec 2024 6:55 am
Operator : Dakota:smz
Sample : L2473162-07,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 18 11:52:30 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.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	3.385	94	2586	0.228	ug/ml	95
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.	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.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-07.D
Acq On : 17 Dec 2024 6:55 am
Operator : Dakota:smz
Sample : L2473162-07,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 18 11:52:30 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.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.		
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.		
111)	Di-n-octylphthalate	0.000		0	N.D.	d	

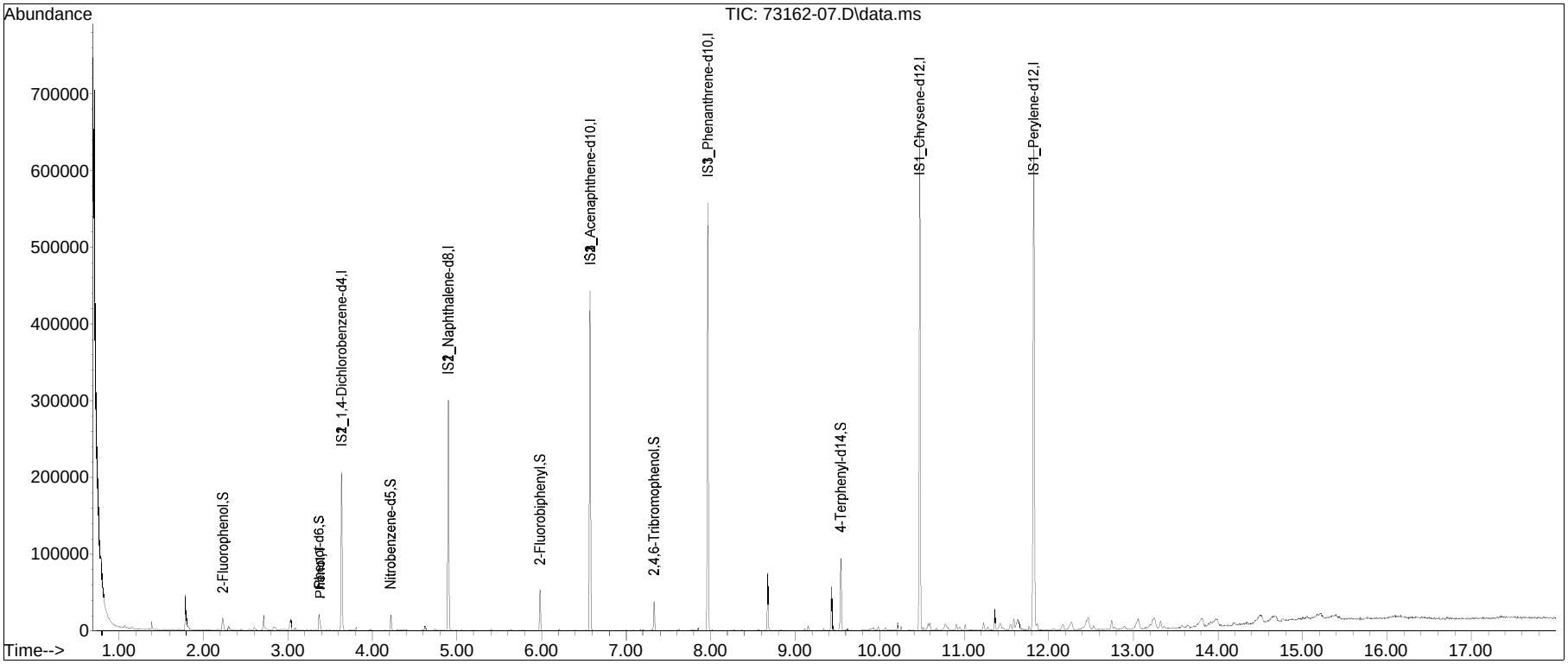
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

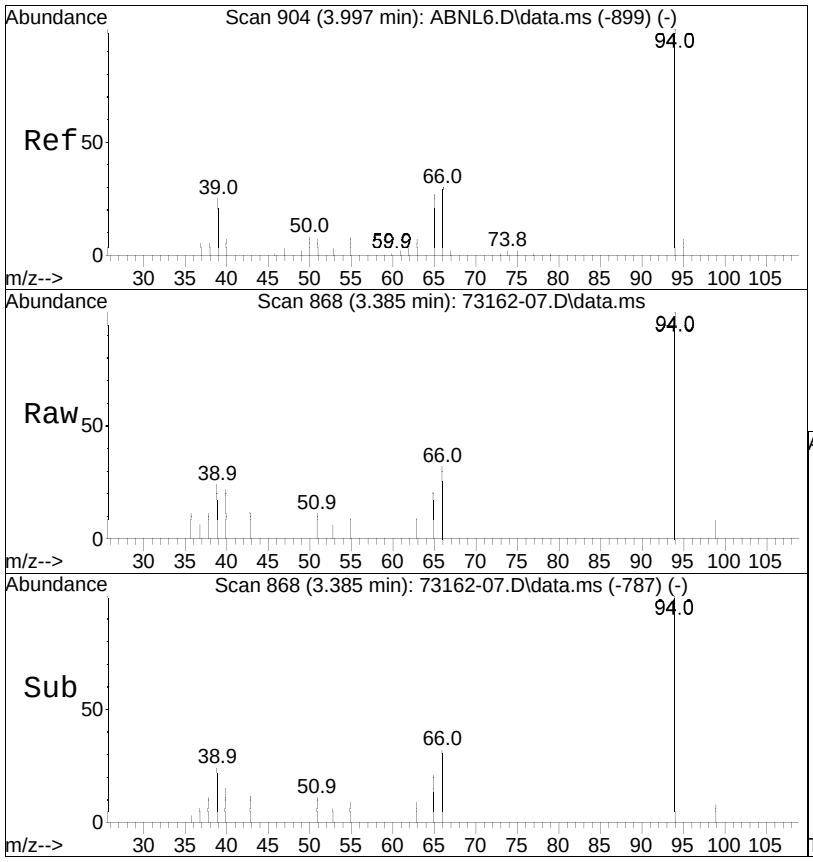
Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-07.D
Acq On : 17 Dec 2024 6:55 am
Operator : Dakota:smz
Sample : L2473162-07,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 18 11:52:30 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA\AP91216na.D•



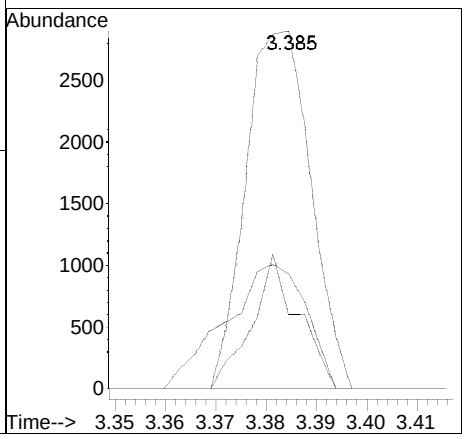
FS241105RVT_Dakota.m Wed Dec 18 11:58:29 2024 Page: 4



#8
Phenol
Concen: 0.23 ug/ml
RT: 3.385 min Scan# 868
Delta R.T. 0.003 min
Lab File: 73162-07.D
Acq: 17 Dec 2024 6:55 am

Tgt Ion: 94 Resp: 2586

Ion	Ratio	Lower	Upper
94	100		
65	26.8	26.0	39.0
66	43.3	33.8	50.8



Manual Integration Report

Data Path	: I:\8270\Dakota\241216NARVTQ	Method	: FS241105RVT_Dakota.m
Data File	: 73162-07.D	Operator	: Dakota:smz
Date Inj'd	: 12/17/2024 6:55 am	Instrument	: Dakota
Sample	: L2473162-07,32,,ASK	Quant Date	: 12/17/2024 7:13 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-08.D
Acq On : 17 Dec 2024 7:17 am
Operator : Dakota:smz
Sample : L2473162-08,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 18 12:15:14 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.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...	3.636	152	31891	4.000	ug/ml	0.00
Standard Area 1 = 26484			Recovery = 120.42%			
27) IS2_1,4-Dichlorobenzen...	3.636	152	31891	4.000	ug/ml	0.00
Standard Area 3 = 26042			Recovery = 122.46%			
37) IS1_Naphthalene-d8	4.898	136	122731	4.000	ug/ml	# 0.00
Standard Area 1 = 99668			Recovery = 123.14%			
57) IS2_Naphthalene-d8	4.898	136	122731	4.000	ug/ml	# 0.00
Standard Area 3 = 95704			Recovery = 128.24%			
65) IS1_Acenaphthene-d10	6.577	164	80879	4.000	ug/ml	0.00
Standard Area 1 = 68055			Recovery = 118.84%			
85) IS2_Acenaphthene-d10	6.577	164	80879	4.000	ug/ml	0.00
Standard Area 3 = 62423			Recovery = 129.57%			
88) IS3_Acenaphthene-d10	6.577	164	80879	4.000	ug/ml	0.00
Standard Area 2 = 60461			Recovery = 133.77%			
90) IS1_Phenanthrene-d10	7.969	188	191756	4.000	ug/ml	0.00
Standard Area 1 = 150638			Recovery = 127.30%			
102) IS3_Phenanthrene-d10	7.969	188	191756	4.000	ug/ml	0.00
Standard Area 2 = 137555			Recovery = 139.40%			
106) IS1_Chrysene-d12	10.474	240	223008	4.000	ug/ml	0.00
Standard Area 1 = 177601			Recovery = 125.57%			
115) IS1_Perylene-d12	11.823	264	261729	4.000	ug/ml	0.00
Standard Area 1 = 203764			Recovery = 128.45%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.228	112	4533	0.553	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 27.65%			
7) Phenol-d6	3.369	99	4931	0.470	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 23.50%			
19) Nitrobenzene-d5	4.214	82	5664	0.594	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 59.40%			
48) 2-Fluorobiphenyl	5.983	172	16696	0.550	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 55.00%			
81) 2,4,6-Tribromophenol	7.329	330	4221	0.730	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 36.50%			
98) 4-Terphenyl-d14	9.539	244	30966	0.558	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 55.80%			

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-08.D
Acq On : 17 Dec 2024 7:17 am
Operator : Dakota:smz
Sample : L2473162-08,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 18 12:15:14 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.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.	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.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-08.D
Acq On : 17 Dec 2024 7:17 am
Operator : Dakota:smz
Sample : L2473162-08,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 18 12:15:14 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.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.		
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	

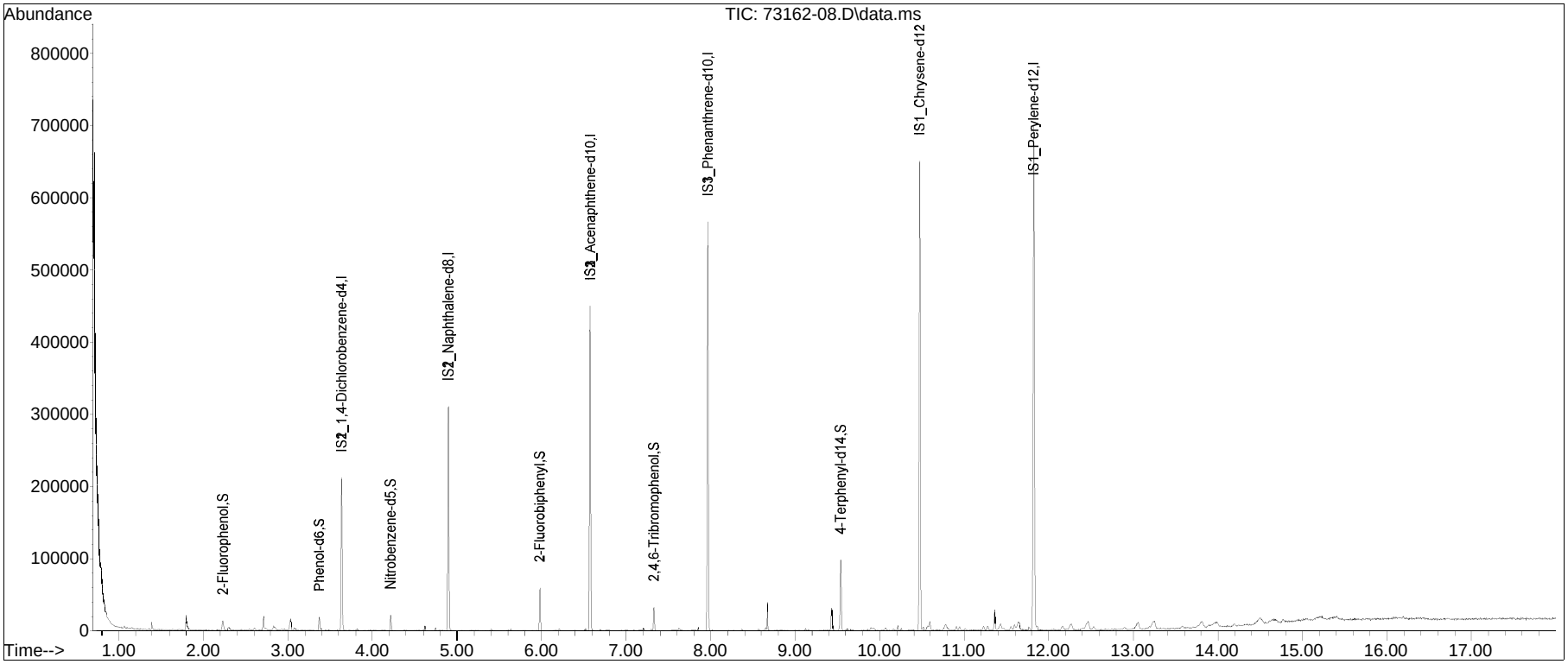
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-08.D
Acq On : 17 Dec 2024 7:17 am
Operator : Dakota:smz
Sample : L2473162-08,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 18 12:15:14 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA\AP91216na.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\241216NARVTQ	Method	: FS241105RVT_Dakota.m
Data File	: 73162-08.D	Operator	: Dakota:smz
Date Inj'd	: 12/17/2024 7:17 am	Instrument	: Dakota
Sample	: L2473162-08,32,,ASK	Quant Date	: 12/17/2024 7:36 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-09.D
Acq On : 17 Dec 2024 7:40 am
Operator : Dakota:smz
Sample : L2473162-09,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 18 11:53:14 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.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...	3.636	152	29854	4.000	ug/ml		0.00
Standard Area 1 = 26484			Recovery = 112.72%				
27) IS2_1,4-Dichlorobenzen...	3.636	152	29854	4.000	ug/ml		0.00
Standard Area 3 = 26042			Recovery = 114.64%				
37) IS1_Naphthalene-d8	4.898	136	116138	4.000	ug/ml	#	0.00
Standard Area 1 = 99668			Recovery = 116.52%				
57) IS2_Naphthalene-d8	4.898	136	116138	4.000	ug/ml	#	0.00
Standard Area 3 = 95704			Recovery = 121.35%				
65) IS1_Acenaphthene-d10	6.577	164	77085	4.000	ug/ml		0.00
Standard Area 1 = 68055			Recovery = 113.27%				
85) IS2_Acenaphthene-d10	6.577	164	77085	4.000	ug/ml		0.00
Standard Area 3 = 62423			Recovery = 123.49%				
88) IS3_Acenaphthene-d10	6.577	164	77085	4.000	ug/ml		0.00
Standard Area 2 = 60461			Recovery = 127.50%				
90) IS1_Phenanthrene-d10	7.969	188	178265	4.000	ug/ml		0.00
Standard Area 1 = 150638			Recovery = 118.34%				
102) IS3_Phenanthrene-d10	7.969	188	178265	4.000	ug/ml		0.00
Standard Area 2 = 137555			Recovery = 129.60%				
106) IS1_Chrysene-d12	10.474	240	210046	4.000	ug/ml		0.00
Standard Area 1 = 177601			Recovery = 118.27%				
115) IS1_Perylene-d12	11.823	264	253196	4.000	ug/ml		0.00
Standard Area 1 = 203764			Recovery = 124.26%				
System Monitoring Compounds							
4) 2-Fluorophenol	2.225	112	5568	0.725	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 36.25%				
7) Phenol-d6	3.372	99	4877	0.496	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 24.80%				
19) Nitrobenzene-d5	4.214	82	4666	0.523	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 52.30%				
48) 2-Fluorobiphenyl	5.980	172	14041	0.488	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 48.80%				
81) 2,4,6-Tribromophenol	7.329	330	4598	0.834	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 41.70%				
98) 4-Terphenyl-d14	9.539	244	26549	0.515	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 51.50%				

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-09.D
Acq On : 17 Dec 2024 7:40 am
Operator : Dakota:smz
Sample : L2473162-09,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 18 11:53:14 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.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	3.385	94	924	0.087	ug/ml#	62
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.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-09.D
Acq On : 17 Dec 2024 7:40 am
Operator : Dakota:smz
Sample : L2473162-09,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 18 11:53:14 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.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.		
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	

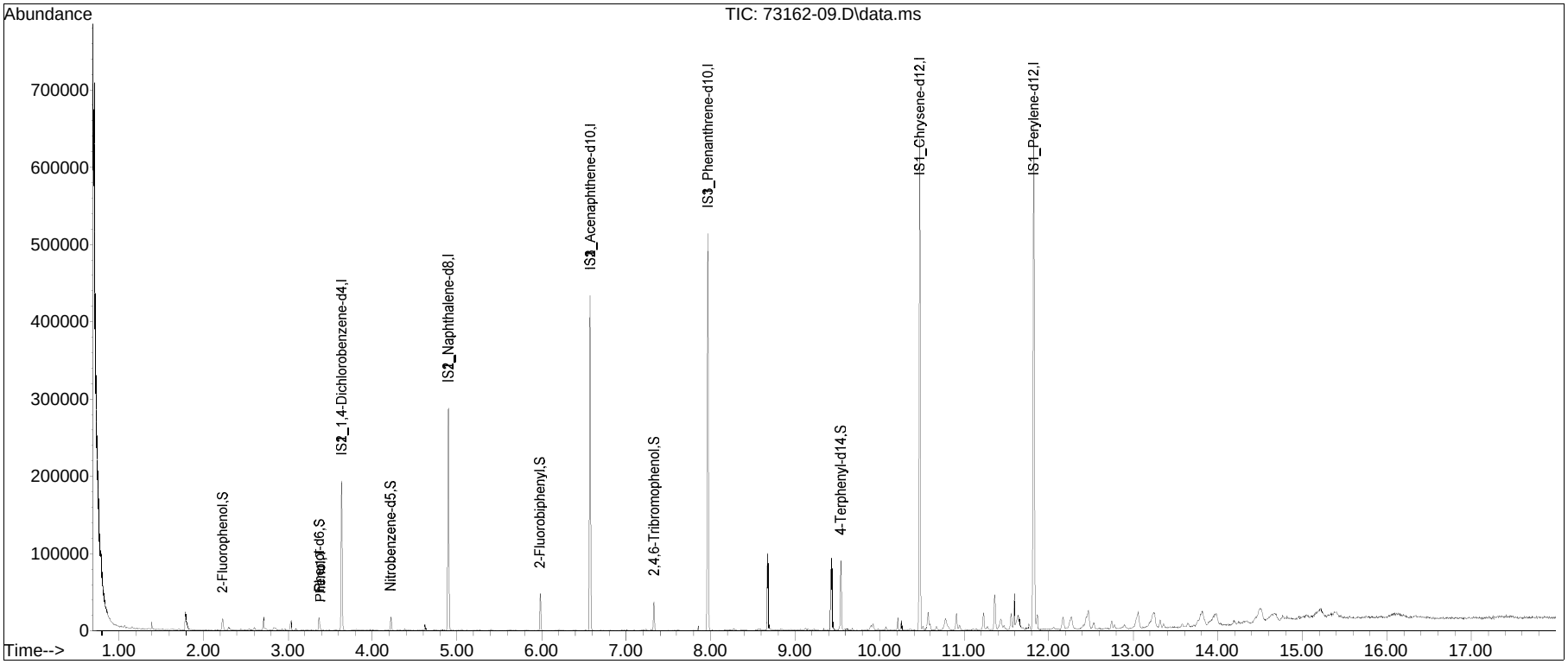
(#) = qualifier out of range (m) = manual integration (+) = signals summed

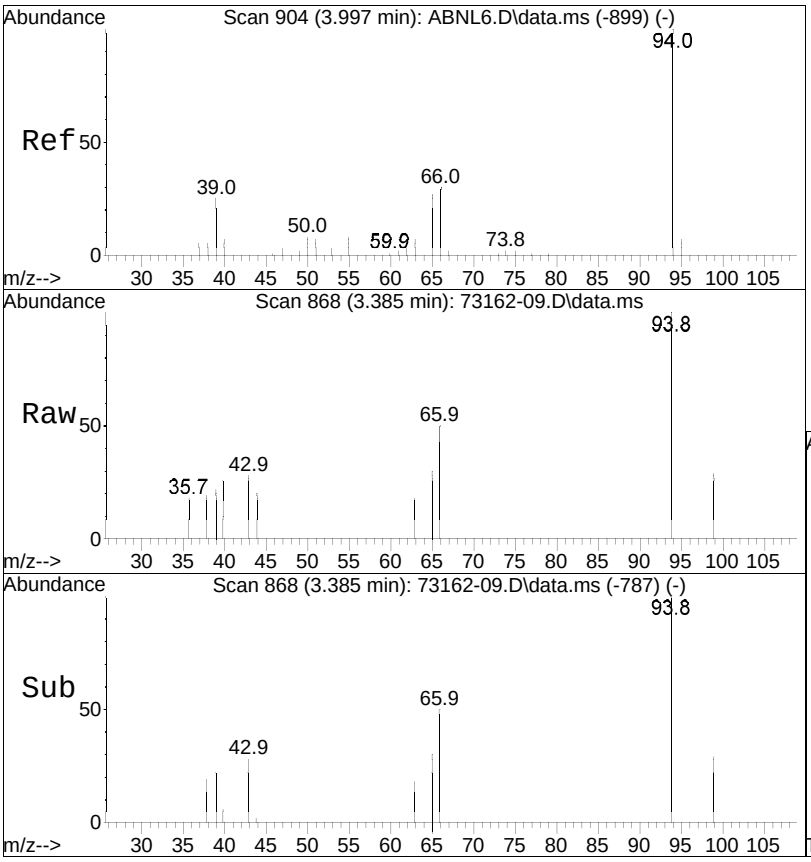
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-09.D
Acq On : 17 Dec 2024 7:40 am
Operator : Dakota:smz
Sample : L2473162-09,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 18 11:53:14 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA\AP91216na.D•

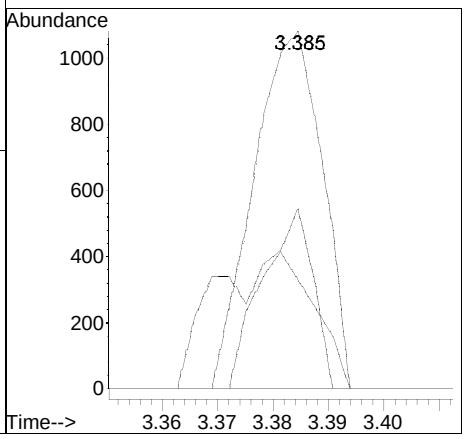




#8
Phenol
Concen: 0.09 ug/ml
RT: 3.385 min Scan# 868
Delta R.T. 0.003 min
Lab File: 73162-09.D
Acq: 17 Dec 2024 7:40 am

Tgt Ion: 94 Resp: 924

Ion	Ratio	Lower	Upper
94	100		
65	0.0	26.0	39.0#
66	56.6	33.8	50.8#



Manual Integration Report

Data Path	: I:\8270\Dakota\241216NARVTQ	Method	: FS241105RVT_Dakota.m
Data File	: 73162-09.D	Operator	: Dakota:smz
Date Inj'd	: 12/17/2024 7:40 am	Instrument	: Dakota
Sample	: L2473162-09,32,,ASK	Quant Date	: 12/17/2024 7:58 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-10.D
Acq On : 17 Dec 2024 8:02 am
Operator : Dakota:smz
Sample : L2473162-10,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 18 11:53:35 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.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...	3.636	152	31544	4.000	ug/ml		0.00
Standard Area 1 = 26484			Recovery = 119.11%				
27) IS2_1,4-Dichlorobenzen...	3.636	152	31544	4.000	ug/ml		0.00
Standard Area 3 = 26042			Recovery = 121.13%				
37) IS1_Naphthalene-d8	4.895	136	119343	4.000	ug/ml	#	0.00
Standard Area 1 = 99668			Recovery = 119.74%				
57) IS2_Naphthalene-d8	4.895	136	119343	4.000	ug/ml	#	0.00
Standard Area 3 = 95704			Recovery = 124.70%				
65) IS1_Acenaphthene-d10	6.577	164	79535	4.000	ug/ml		0.00
Standard Area 1 = 68055			Recovery = 116.87%				
85) IS2_Acenaphthene-d10	6.577	164	79535	4.000	ug/ml		0.00
Standard Area 3 = 62423			Recovery = 127.41%				
88) IS3_Acenaphthene-d10	6.577	164	79535	4.000	ug/ml		0.00
Standard Area 2 = 60461			Recovery = 131.55%				
90) IS1_Phenanthrene-d10	7.969	188	190261	4.000	ug/ml		0.00
Standard Area 1 = 150638			Recovery = 126.30%				
102) IS3_Phenanthrene-d10	7.969	188	190261	4.000	ug/ml		0.00
Standard Area 2 = 137555			Recovery = 138.32%				
106) IS1_Chrysene-d12	10.471	240	215168	4.000	ug/ml		0.00
Standard Area 1 = 177601			Recovery = 121.15%				
115) IS1_Perylene-d12	11.823	264	259823	4.000	ug/ml		0.00
Standard Area 1 = 203764			Recovery = 127.51%				
System Monitoring Compounds							
4) 2-Fluorophenol	2.229	112	4883	0.602	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 30.10%				
7) Phenol-d6	3.369	99	4988	0.480	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 24.00%				
19) Nitrobenzene-d5	4.215	82	5186	0.550	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 55.00%				
48) 2-Fluorobiphenyl	5.980	172	15752	0.533	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 53.30%				
81) 2,4,6-Tribromophenol	7.329	330	3838	0.675	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 33.75%				
98) 4-Terphenyl-d14	9.539	244	29921	0.543	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 54.30%				

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-10.D
Acq On : 17 Dec 2024 8:02 am
Operator : Dakota:smz
Sample : L2473162-10,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 18 11:53:35 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.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.	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.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-10.D
Acq On : 17 Dec 2024 8:02 am
Operator : Dakota:smz
Sample : L2473162-10,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 18 11:53:35 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.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.		
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	

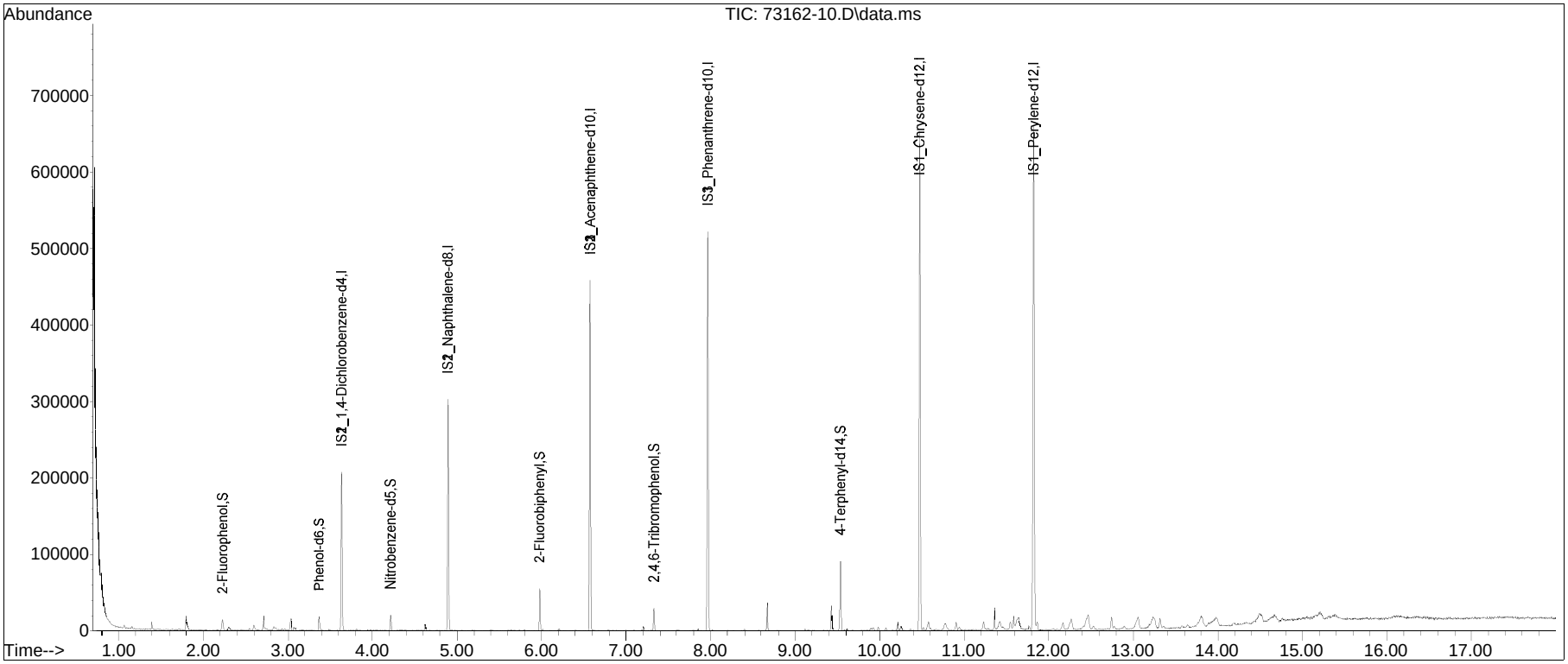
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 73162-10.D
Acq On : 17 Dec 2024 8:02 am
Operator : Dakota:smz
Sample : L2473162-10,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 18 11:53:35 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA\AP91216na.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\241216NARVTQ	Method	: FS241105RVT_Dakota.m
Data File	: 73162-10.D	Operator	: Dakota:smz
Date Inj'd	: 12/17/2024 8:02 am	Instrument	: Dakota
Sample	: L2473162-10,32,,ASK	Quant Date	: 12/17/2024 8:20 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**	**: L2473162**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21360**
Calibration dates	**: 07/30/24 19:25 07/31/24 07:43**		

Calibration Files
L1 =ADPL1.D L2 =ADPL2.D L3 =ADPL3.D L4 =ADPL4.D L5 =ADPL5.D L6 =ADPL6.D L7 =ADPL7.D
L8 =ADPL8.D L9 =ADPL9.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		0.624	0.767	0.690	0.709	0.713	0.729	0.717	0.734	0.710	5.84
3)	t	Pyridine		0.926	1.093	1.046	1.076	1.192	1.133	1.066	1.160	1.086	7.50
4)	S	2-Fluorophenol		0.970	1.079	1.023	1.072	1.084	1.124	1.101	1.186	1.080	5.97
5)	T	Aniline	1.690	1.824	1.749	1.712	1.707	1.641	1.829	1.825	1.908	1.765	4.86
6)	t	2-Chlorophenol	1.239	1.274	1.314	1.229	1.265	1.234	1.342	1.348	1.403	1.294	4.70
7)	S	Phenol-d6	1.250	1.403	1.443	1.386	1.371	1.328	1.476	1.493	1.566	1.413	6.68
8)	T	Phenol	1.525	1.651	1.602	1.506	1.512	1.452	1.578	1.599	1.673	1.566	4.64
9)	T	bis(2-Chloroethyl)ether	1.334	1.365	1.296	1.197	1.159	1.116	1.235	1.237	1.286	1.247	6.54
10)	T	1,3-Dichlorobenzene	1.625	1.839	1.597	1.526	1.500	1.472	1.555	1.532	1.641	1.587	6.92
11)	T	1,4-Dichlorobenzene	1.579	1.873	1.614	1.563	1.500	1.477	1.582	1.559	1.648	1.599	7.19
12)	T	1,2-Dichlorobenzene	1.492	1.802	1.637	1.481	1.437	1.427	1.553	1.593	1.633	1.562	7.67
13)	t	Benzyl alcohol		1.029	0.984	0.896	0.916	0.918	1.069	1.114	1.151	1.010	9.59
14)	T	bis(2-chloroisopropyl)ether	1.584	1.788	1.653	1.540	1.515	1.455	1.649	1.664	1.708	1.617	6.39
15)	T	2-Methylphenol	1.065	1.097	1.101	1.073	1.068	1.000	1.180	1.237	1.316	1.126	8.82
16)	T	Hexachloroethane	0.435	0.657	0.567	0.540	0.552	0.543	0.572	0.585	0.614	0.563	10.79
17)	T	n-Nitrosodi-n-propylamine		0.866	0.827	0.804	0.812	0.775	0.906	0.938	0.969	0.862	8.07
18)	T	3-Methylphenol/4-Methylphenol		1.280	1.234	1.157	1.179	1.090	1.278	1.325	1.386	1.241	7.76
19)	S	Nitrobenzene-d5	1.421	1.399	1.344	1.288	1.277	1.240	1.407	1.446	1.486	1.368	6.17
20)	T	Nitrobenzene	1.242	1.327	1.317	1.249	1.250	1.204	1.386	1.403	1.431	1.312	6.17
21)	T	Isophorone	2.288	2.249	2.253	2.150	2.273	2.121	2.526	2.581	2.652	2.344	8.22
22)	T	2-Nitrophenol				0.529	0.596	0.594	0.725	0.760	0.795	0.667	16.11
23)	T	2,4-Dimethylphenol		1.085	1.078	1.118	1.086	0.664	1.133	1.188	1.298	1.081	17.00
24)	T	bis(2-Chloroethoxy)methane	1.772	1.688	1.538	1.503	1.513	1.374	1.577	1.611	1.690	1.585	7.60
25)	T	2,4-Dichlorophenol		1.109	1.081	1.090	1.120	1.073	1.266	1.323	1.383	1.180	10.47
26)	T	1,2,4-Trichlorobenzene	1.386	1.596	1.469	1.329	1.303	1.245	1.387	1.425	1.504	1.405	7.69
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------										
28)	T	Benzaldehyde		1.113	1.135	1.132	1.078	1.101	1.175	1.198	1.223	1.145	4.37
29)	T	Acetophenone		1.955	1.982	2.026	1.901	1.937	2.098	2.153	2.202	2.032	5.35
30)	T	m-Toluidine	1.270	1.621	1.725	1.791	1.838	1.902	2.105	2.210	2.276	1.860	16.85
31)	T	2-Chloroaniline	1.465	1.578	1.717	1.763	1.706	1.767	1.913	1.985	2.060	1.773	10.69
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------										
33)		1,4-Dioxane		0.485	0.487	0.521	0.437	0.401	0.468	0.430	0.446	0.459	8.33
34)	T	n-Decane	1.305	1.364	1.381	1.475	1.372	1.263	1.425	1.402	1.509	1.388	5.54
35)	I	IS1_Naphthalene-d8	----------ISTD----------										
36)	T	Naphthalene	1.325	1.285	1.153	1.086	1.018	0.995	1.087	1.085	1.154	1.132	9.86

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2473162**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21360**
Calibration dates	**: 07/30/24 19:25 07/31/24 07:43**		

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

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
37)	T	Benzoic Acid					0.141	0.169	0.227	0.248	0.272	*L	0.9979
38)	T	4-Chloroaniline	0.106	0.129	0.120	0.127	0.121	0.121	0.134	0.135	0.144	0.126	8.66
39)	T	Hexachlorobutadiene	0.207	0.271	0.226	0.212	0.213	0.205	0.221	0.224	0.235	0.224	8.96
40)	T	p-Chloro-m-cresol	0.217	0.276	0.271	0.272	0.274	0.258	0.315	0.319	0.345	0.283	13.43
41)	T	2-Methylnaphthalene	0.825	0.784	0.716	0.702	0.687	0.656	0.736	0.735	0.793	0.737	7.41
42)	T	1-Methylnaphthalene	0.212	0.276	0.236	0.226	0.224	0.218	0.244	0.245	0.263	0.238	8.97
43)	T	Hexachlorocyclopentadiene	0.164	0.216	0.205	0.204	0.199	0.198	0.231	0.234	0.255	0.212	12.42
44)	T	2,4,6-Trichlorophenol	0.167	0.222	0.209	0.227	0.233	0.219	0.264	0.272	0.294	0.234	16.11
45)	T	2,4,5-Trichlorophenol	0.170	0.235	0.231	0.239	0.244	0.237	0.283	0.291	0.307	0.249	16.38
46)	S	2-Fluorobiphenyl	0.972	1.060	0.884	0.851	0.817	0.767	0.890	0.897	0.961	0.900	9.79
47)	T	2-Chloronaphthalene	0.858	0.850	0.745	0.729	0.711	0.650	0.756	0.760	0.808	0.763	8.75
48)	T	2-Nitroaniline			0.155	0.170	0.193	0.181	0.236	0.238	0.255	0.204	18.91
49)	T	1,4-Dinitrobenzene					0.097	0.089	0.118	0.120	0.125	0.110	14.44
50)	T	1,3-Dinitrobenzene					0.111	0.105	0.137	0.141	0.151	0.129	15.31
51)	T	Dimethyl phthalate		0.935	0.868	0.833	0.836	0.737	0.885	0.878	0.930	0.863	7.31
52)	T	Acenaphthylene	1.141	1.182	1.070	1.063	1.061	0.984	1.192	1.209	1.291	1.132	8.41
53)	T	2,6-Dinitrotoluene			0.137	0.157	0.164	0.153	0.189	0.184	0.198	0.169	12.99
54)	T	1,2-Dinitrobenzene			0.060	0.068	0.075	0.068	0.087	0.087	0.093	0.077	16.17
55)	I	IS2_Naphthalene-d8	----------ISTD----------										
56)	T	a-Terpineol	0.187	0.279	0.269	0.280	0.281	0.305	0.337	0.359	0.373	0.297	18.90
57)	T	3-Chloroaniline		0.137	0.151	0.150	0.156	0.165	0.179	0.179	0.185	0.163	10.60
58)	T	2,6-Dichlorophenol	0.202	0.277	0.299	0.308	0.315	0.332	0.361	0.382	0.400	0.319	18.62
59)	T	1-chloro-2-nitrobenzene		0.128	0.136	0.147	0.151	0.154	0.169	0.175	0.180	0.155	12.00
60)	T	Caprolactam				0.105	0.134	0.151	0.183	0.191	0.191	*L	0.9988
61)	T	1,2,4,5-Tetrachlorobenzene	0.443	0.435	0.442	0.429	0.427	0.425	0.455	0.457	0.484	0.444	4.24
62)	T	Biphenyl	0.952	1.044	1.044	0.993	0.991	0.977	1.060	1.113	1.147	1.036	6.22
63)	I	IS1_Acenaphthene-d10	----------ISTD----------										
64)	T	3-Nitroaniline			0.278	0.303	0.313	0.311	0.336	0.339	0.360	0.320	8.44
65)	T	Acenaphthene	1.218	1.273	1.188	1.104	1.021	1.022	1.083	1.136	1.198	1.138	7.76
66)	T	2,4-Dinitrophenol				0.084	0.124	0.134	0.193	0.218	0.230	*L	0.9940
67)	T	Dibenzofuran	2.280	2.138	1.895	1.802	1.687	1.641	1.747	1.808	1.913	1.879	11.15
68)	T	2,4-Dinitrotoluene			0.337	0.351	0.395	0.373	0.438	0.470	0.495	0.408	14.87
69)	T	4-Nitrophenol				0.222	0.245	0.239	0.261	0.271	0.281	0.253	8.58
70)	T	2,3,5,6-Tetrachlorophenol	0.197	0.299	0.336	0.333	0.348	0.338	0.389	0.402	0.427	0.341	19.68
71)	T	2,3,4,6-Tetrachlorophenol	0.201	0.266	0.308	0.324	0.340	0.333	0.371	0.378	0.408	0.325	19.20
72)	T	Diethyl phthalate	1.375	1.432	1.374	1.252	1.250	1.154	1.322	1.361	1.423	1.327	6.91

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2473162**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21360**
Calibration dates	**: 07/30/24 19:25 07/31/24 07:43**		

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

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
73)	T	Fluorene	1.456	1.525	1.451	1.329	1.295	1.256	1.361	1.426	1.539	1.404	7.11
74)	T	4-Chlorophenyl-phenylether	0.799	0.814	0.735	0.664	0.651	0.629	0.678	0.702	0.744	0.713	9.10
75)	T	4-Nitroaniline			0.278	0.300	0.318	0.301	0.355	0.340	0.350	0.320	8.98
76)	T	4,6-Dinitro-o-cresol			0.109	0.136	0.186	0.185	0.252	0.271	0.287	*L	0.9939
77)	T	NDPA/DPA	1.043	1.225	1.234	1.127	1.112	1.057	1.178	1.219	1.297	1.166	7.40
78)	T	Azobenzene	1.162	1.290	1.300	1.178	1.204	1.129	1.249	1.232	1.294	1.226	5.08
79)	S	2,4,6-Tribromophenol			0.171	0.159	0.175	0.170	0.190	0.214	0.232	0.187	14.31
80)	T	4-Bromophenyl-phenylether	0.405	0.392	0.386	0.370	0.371	0.341	0.385	0.390	0.423	0.385	6.04
81)	T	Hexachlorobenzene		0.437	0.445	0.420	0.394	0.381	0.415	0.437	0.469	0.425	6.62
82)	T	Pentachlorophenol				0.192	0.240	0.234	0.298	0.327	0.345	*L	0.9960
83)	I	IS2_Acenaphthene-d10	----------ISTD----------										
84)	T	Dichloran				0.122	0.142	0.164	0.212	0.248	0.253	*L	0.9948
85)	T	Pentachloronitrobenzene				0.133	0.159	0.166	0.199	0.221	0.225	*L	0.9975
86)	I	IS3_Acenaphthene-d10	----------ISTD----------										
87)	T	Atrazine		0.249	0.284	0.293	0.307	0.315	0.369	0.386		0.315	15.27
88)	I	IS1_Phenanthrene-d10	----------ISTD----------										
89)	T	Phenanthrene	1.312	1.332	1.162	1.089	1.016	1.017	1.107	1.132	1.194	1.151	9.86
90)	T	Anthracene	1.105	1.151	1.050	1.039	0.991	0.991	1.111	1.140	1.222	1.089	7.11
91)	T	Carbazole	0.904	0.969	0.974	0.960	0.930	0.920	1.062	1.071	1.153	0.994	8.41
92)	T	Di-n-butylphthalate			0.916	0.932	0.979	0.945	1.199	1.313	1.375	1.094	17.94
93)	T	Fluoranthene	1.268	1.306	1.223	1.157	1.181	1.138	1.279	1.384	1.415	1.261	7.68
94)	T	Benzidine				0.535	0.618	0.533	0.763	0.778	0.895	*L	0.9908
95)	T	Pyrene	1.429	1.455	1.354	1.285	1.270	1.229	1.363	1.456	1.505	1.372	6.99
96)	S	4-Terphenyl-d14	0.939	0.964	0.947	0.910	0.888	0.825	0.923	1.043	1.074	0.946	8.01
97)	T	Butyl benzyl phthalate			0.318	0.342	0.401	0.384	0.557	0.620	0.652	*L	0.9907
98)	I	IS2_Phenanthrene-d10	----------ISTD----------										
99)	T	Diphenamid			0.398	0.403	0.444	0.484	0.554	0.623	0.639	0.507	19.79
100)	I	IS3_Phenanthrene-d10	----------ISTD----------										
101)	T	n-Octadecane	0.286	0.314	0.366	0.378	0.385	0.375	0.422	0.435	0.471	0.381	15.10
102)	T	Parathion			0.053	0.053	0.056	0.066	0.091	0.109	0.134	*Q	0.9983
103)	T	3,3'-Dimethylbenzidine				0.377	0.480	0.541	0.757	0.800	0.926	*L	0.9909
104)	I	IS1_Chrysene-d12	----------ISTD----------										
105)	T	Benzo[a]anthracene	1.617	1.570	1.439	1.357	1.331	1.335	1.472	1.474	1.485	1.453	6.91
106)	T	3,3'-Dichlorobenzidine		0.323	0.338	0.374	0.418	0.422	0.521	0.547	0.554	*L	0.9961
107)	T	Chrysene		1.739	1.499	1.395	1.295	1.286	1.337	1.326	1.350	1.403	10.81
108)	T	bis(2-Ethylhexyl)phthalate		0.527	0.534	0.564	0.662	0.667	0.862	0.884	0.905	*Q	0.9973

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2473162**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21360**
Calibration dates	**: 07/30/24 19:25 07/31/24 07:43**		

Calibration Files

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

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
109)	T	Di-n-octylphthalate				0.742	0.786	0.999	1.008	1.405	1.499	1.568	*L 0.9935
110)	T	Benzo(b)fluoranthene	1.184	1.338	1.252	1.212	1.197	1.198	1.244	1.304	1.334	1.251	4.80
111)	T	Benzo(k)fluoranthene	1.077	1.225	1.303	1.168	1.262	1.274	1.320	1.352	1.281	1.251	6.75
112)	T	Benzo(a)pyrene	0.929	1.038	1.086	1.053	1.096	1.109	1.188	1.196	1.211	1.101	8.19
113)	I	IS1_Perylene-d12	----------ISTD----------										
114)	T	Indeno(1,2,3-cd)pyrene		1.038	1.025	0.971	1.020	1.069	1.195	1.207	1.259	1.098	9.69
115)	T	Dibenzo[a,h]anthracene	0.861	1.013	1.025	1.013	1.012	1.043	1.125	1.166	1.242	1.056	10.39
116)	T	Benzo(g,h,i)perylene	0.957	1.101	0.996	0.983	0.996	1.024	1.039	0.894	0.806	0.977	8.78

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2473162**
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**	**: L2473162**
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**	: L2473162
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	
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**	**: L2473162**
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

Response Factor Report SV107

Method Path : I:\8270\SV107\240730ical\
Method File : FS240730SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Aug 02 07:49:58 2024
Response Via : Initial Calibration

Calibration Files
L1 =ADPL1.D L2 =ADPL2.D L3 =ADPL3.D L4 =ADPL4.D L5 =ADPL5.D L6 =ADPL6.D L7 =ADPL7.D
L8 =ADPL8.D L9 =ADPL9.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		0.624	0.767	0.690	0.709	0.713	0.729	0.717	0.734	0.710	5.84
3)	t	Pyridine		0.926	1.093	1.046	1.076	1.192	1.133	1.066	1.160	1.086	7.50
4)	S	2-Fluorophenol		0.970	1.079	1.023	1.072	1.084	1.124	1.101	1.186	1.080	5.97
5)	T	Aniline	1.690	1.824	1.749	1.712	1.707	1.641	1.829	1.825	1.908	1.765	4.86
6)	t	2-Chlorophenol	1.239	1.274	1.314	1.229	1.265	1.234	1.342	1.348	1.403	1.294	4.70
7)	S	Phenol-d6	1.250	1.403	1.443	1.386	1.371	1.328	1.476	1.493	1.566	1.413	6.68
8)	T	Phenol	1.525	1.651	1.602	1.506	1.512	1.452	1.578	1.599	1.673	1.566	4.64
9)	T	bis(2-Chloroethyl)ether	1.334	1.365	1.296	1.197	1.159	1.116	1.235	1.237	1.286	1.247	6.54
10)	T	1,3-Dichlorobenzene	1.625	1.839	1.597	1.526	1.500	1.472	1.555	1.532	1.641	1.587	6.92
11)	T	1,4-Dichlorobenzene	1.579	1.873	1.614	1.563	1.500	1.477	1.582	1.559	1.648	1.599	7.19
12)	T	1,2-Dichlorobenzene	1.492	1.802	1.637	1.481	1.437	1.427	1.553	1.593	1.633	1.562	7.67
13)	t	Benzyl alcohol		1.029	0.984	0.896	0.916	0.918	1.069	1.114	1.151	1.010	9.59
14)	T	bis(2-chloroisopropyl)ether	1.584	1.788	1.653	1.540	1.515	1.455	1.649	1.664	1.708	1.617	6.39
15)	T	2-Methylphenol	1.065	1.097	1.101	1.073	1.068	1.000	1.180	1.237	1.316	1.126	8.82
16)	T	Hexachloroethane	0.435	0.657	0.567	0.540	0.552	0.543	0.572	0.585	0.614	0.563	10.79
17)	T	n-Nitrosodi-n-propylamine		0.866	0.827	0.804	0.812	0.775	0.906	0.938	0.969	0.862	8.07
18)	T	3-Methylphenol/4-Methylphenol		1.280	1.234	1.157	1.179	1.090	1.278	1.325	1.386	1.241	7.76
19)	S	Nitrobenzene-d5	1.421	1.399	1.344	1.288	1.277	1.240	1.407	1.446	1.486	1.368	6.17
20)	T	Nitrobenzene	1.242	1.327	1.317	1.249	1.250	1.204	1.386	1.403	1.431	1.312	6.17
21)	T	Isophorone	2.288	2.249	2.253	2.150	2.273	2.121	2.526	2.581	2.652	2.344	8.22
22)	T	2-Nitrophenol				0.529	0.596	0.594	0.725	0.760	0.795	0.667	16.11
23)	T	2,4-Dimethylphenol		1.085	1.078	1.118	1.086	0.664	1.133	1.188	1.298	1.081	17.00
24)	T	bis(2-Chloroethoxy)methane	1.772	1.688	1.538	1.503	1.513	1.374	1.577	1.611	1.690	1.585	7.60
25)	T	2,4-Dichlorophenol		1.109	1.081	1.090	1.120	1.073	1.266	1.323	1.383	1.180	10.47
26)	T	1,2,4-Trichlorobenzene	1.386	1.596	1.469	1.329	1.303	1.245	1.387	1.425	1.504	1.405	7.69
27)	I	IS2_1,4-Dichlorobenzene-d4	ISTD										
28)	T	Benzaldehyde		1.113	1.135	1.132	1.078	1.101	1.175	1.198	1.223	1.145	4.37
29)	T	Acetophenone		1.955	1.982	2.026	1.901	1.937	2.098	2.153	2.202	2.032	5.35
30)	T	m-Toluidine	1.270	1.621	1.725	1.791	1.838	1.902	2.105	2.210	2.276	1.860	16.85
31)	T	2-Chloroaniline	1.465	1.578	1.717	1.763	1.706	1.767	1.913	1.985	2.060	1.773	10.69
32)	I	IS3_1,4-Dichlorobenzene-d4	ISTD										
33)		1,4-Dioxane		0.485	0.487	0.521	0.437	0.401	0.468	0.430	0.446	0.459	8.33
34)	T	n-Decane	1.305	1.364	1.381	1.475	1.372	1.263	1.425	1.402	1.509	1.388	5.54
35)	I	IS1_Naphthalene-d8	ISTD										
36)	T	Naphthalene	1.325	1.285	1.153	1.086	1.018	0.995	1.087	1.085	1.154	1.132	9.86
37)	T	Benzoic Acid					0.141	0.169	0.227	0.248	0.272	*L	0.9979
38)	T	4-Chloroaniline	0.106	0.129	0.120	0.127	0.121	0.121	0.134	0.135	0.144	0.126	8.66
39)	T	Hexachlorobutadiene	0.207	0.271	0.226	0.212	0.213	0.205	0.221	0.224	0.235	0.224	8.96
40)	T	p-Chloro-m-cresol	0.217	0.276	0.271	0.272	0.274	0.258	0.315	0.319	0.345	0.283	13.43
41)	T	2-Methylnaphthalene	0.825	0.784	0.716	0.702	0.687	0.656	0.736	0.735	0.793	0.737	7.41
42)	T	1-Methylnaphthalene	0.212	0.276	0.236	0.226	0.224	0.218	0.244	0.245	0.263	0.238	8.97
43)	T	Hexachlorocyclopentadiene	0.164	0.216	0.205	0.204	0.199	0.198	0.231	0.234	0.255	0.212	12.42
44)	T	2,4,6-Trichlorophenol	0.167	0.222	0.209	0.227	0.233	0.219	0.264	0.272	0.294	0.234	16.11
45)	T	2,4,5-Trichlorophenol	0.170	0.235	0.231	0.239	0.244	0.237	0.283	0.291	0.307	0.249	16.38

Response Factor Report SV107

Method Path : I:\8270\SV107\240730ical\
Method File : FS240730SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Aug 02 07:49:58 2024
Response Via : Initial Calibration

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

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
46)	S	2-Fluorobiphenyl	0.972	1.060	0.884	0.851	0.817	0.767	0.890	0.897	0.961	0.900	9.79
47)	T	2-Chloronaphthalene	0.858	0.850	0.745	0.729	0.711	0.650	0.756	0.760	0.808	0.763	8.75
48)	T	2-Nitroaniline			0.155	0.170	0.193	0.181	0.236	0.238	0.255	0.204	18.91
49)	T	1,4-Dinitrobenzene					0.097	0.089	0.118	0.120	0.125	0.110	14.44
50)	T	1,3-Dinitrobenzene					0.111	0.105	0.137	0.141	0.151	0.129	15.31
51)	T	Dimethyl phthalate		0.935	0.868	0.833	0.836	0.737	0.885	0.878	0.930	0.863	7.31
52)	T	Acenaphthylene	1.141	1.182	1.070	1.063	1.061	0.984	1.192	1.209	1.291	1.132	8.41
53)	T	2,6-Dinitrotoluene			0.137	0.157	0.164	0.153	0.189	0.184	0.198	0.169	12.99
54)	T	1,2-Dinitrobenzene			0.060	0.068	0.075	0.068	0.087	0.087	0.093	0.077	16.17
55)	I	IS2_Naphthalene-d8	ISTD										
56)	T	a-Terpineol	0.187	0.279	0.269	0.280	0.281	0.305	0.337	0.359	0.373	0.297	18.90
57)	T	3-Chloroaniline		0.137	0.151	0.150	0.156	0.165	0.179	0.179	0.185	0.163	10.60
58)	T	2,6-Dichlorophenol	0.202	0.277	0.299	0.308	0.315	0.332	0.361	0.382	0.400	0.319	18.62
59)	T	1-chloro-2-nitrobenzene		0.128	0.136	0.147	0.151	0.154	0.169	0.175	0.180	0.155	12.00
60)	T	Caprolactam				0.105	0.134	0.151	0.183	0.191	0.191	*L	0.9988
61)	T	1,2,4,5-Tetrachlorobenzene	0.443	0.435	0.442	0.429	0.427	0.425	0.455	0.457	0.484	0.444	4.24
62)	T	Biphenyl	0.952	1.044	1.044	0.993	0.991	0.977	1.060	1.113	1.147	1.036	6.22
63)	I	IS1_Acenaphthene-d10	ISTD										
64)	T	3-Nitroaniline			0.278	0.303	0.313	0.311	0.336	0.339	0.360	0.320	8.44
65)	T	Acenaphthene	1.218	1.273	1.188	1.104	1.021	1.022	1.083	1.136	1.198	1.138	7.76
66)	T	2,4-Dinitrophenol				0.084	0.124	0.134	0.193	0.218	0.230	*L	0.9940
67)	T	Dibenzofuran	2.280	2.138	1.895	1.802	1.687	1.641	1.747	1.808	1.913	1.879	11.15
68)	T	2,4-Dinitrotoluene			0.337	0.351	0.395	0.373	0.438	0.470	0.495	0.408	14.87
69)	T	4-Nitrophenol				0.222	0.245	0.239	0.261	0.271	0.281	0.253	8.58
70)	T	2,3,5,6-Tetrachlorophenol	0.197	0.299	0.336	0.333	0.348	0.338	0.389	0.402	0.427	0.341	19.68
71)	T	2,3,4,6-Tetrachlorophenol	0.201	0.266	0.308	0.324	0.340	0.333	0.371	0.378	0.408	0.325	19.20
72)	T	Diethyl phthalate	1.375	1.432	1.374	1.252	1.250	1.154	1.322	1.361	1.423	1.327	6.91
73)	T	Fluorene	1.456	1.525	1.451	1.329	1.295	1.256	1.361	1.426	1.539	1.404	7.11
74)	T	4-Chlorophenyl-phenylether	0.799	0.814	0.735	0.664	0.651	0.629	0.678	0.702	0.744	0.713	9.10
75)	T	4-Nitroaniline			0.278	0.300	0.318	0.301	0.355	0.340	0.350	0.320	8.98
76)	T	4,6-Dinitro-o-cresol			0.109	0.136	0.186	0.185	0.252	0.271	0.287	*L	0.9939
77)	T	NDPA/DPA	1.043	1.225	1.234	1.127	1.112	1.057	1.178	1.219	1.297	1.166	7.40
78)	T	Azobenzene	1.162	1.290	1.300	1.178	1.204	1.129	1.249	1.232	1.294	1.226	5.08
79)	S	2,4,6-Tribromophenol			0.171	0.159	0.175	0.170	0.190	0.214	0.232	0.187	14.31
80)	T	4-Bromophenyl-phenylether	0.405	0.392	0.386	0.370	0.371	0.341	0.385	0.390	0.423	0.385	6.04
81)	T	Hexachlorobenzene		0.437	0.445	0.420	0.394	0.381	0.415	0.437	0.469	0.425	6.62
82)	T	Pentachlorophenol				0.192	0.240	0.234	0.298	0.327	0.345	*L	0.9960
83)	I	IS2_Acenaphthene-d10	ISTD										
84)	T	Dichloran				0.122	0.142	0.164	0.212	0.248	0.253	*L	0.9948
85)	T	Pentachloronitrobenzene				0.133	0.159	0.166	0.199	0.221	0.225	*L	0.9975
86)	I	IS3_Acenaphthene-d10	ISTD										
87)	T	Atrazine		0.249	0.284	0.293	0.307	0.315	0.369	0.386		0.315	15.27
88)	I	IS1_Phenanthrene-d10	ISTD										
89)	T	Phenanthrene	1.312	1.332	1.162	1.089	1.016	1.017	1.107	1.132	1.194	1.151	9.86
90)	T	Anthracene	1.105	1.151	1.050	1.039	0.991	0.991	1.111	1.140	1.222	1.089	7.11

Response Factor Report SV107

Method Path : I:\8270\SV107\240730ical\
Method File : FS240730SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Aug 02 07:49:58 2024
Response Via : Initial Calibration

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

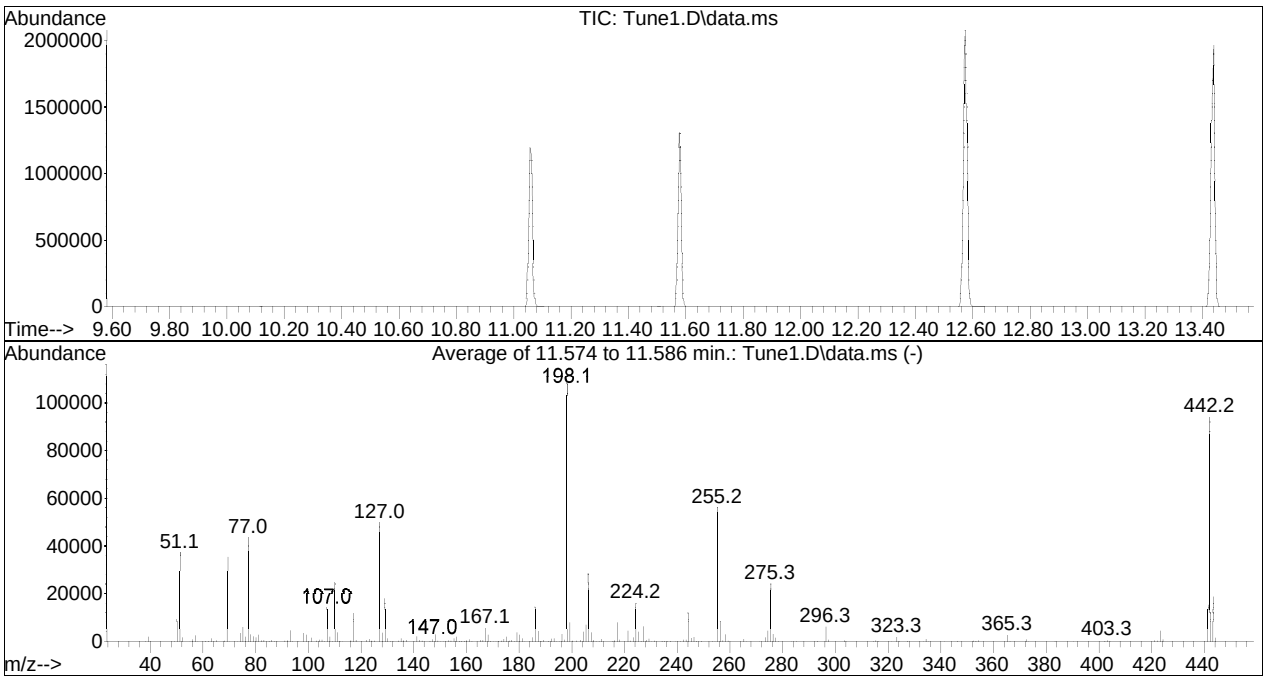
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
91)	T	Carbazole	0.904	0.969	0.974	0.960	0.930	0.920	1.062	1.071	1.153	0.994	8.41
92)	T	Di-n-butylphthalate			0.916	0.932	0.979	0.945	1.199	1.313	1.375	1.094	17.94
93)	T	Fluoranthene	1.268	1.306	1.223	1.157	1.181	1.138	1.279	1.384	1.415	1.261	7.68
94)	T	Benzidine				0.535	0.618	0.533	0.763	0.778	0.895	*L	0.9908
95)	T	Pyrene	1.429	1.455	1.354	1.285	1.270	1.229	1.363	1.456	1.505	1.372	6.99
96)	S	4-Terphenyl-d14	0.939	0.964	0.947	0.910	0.888	0.825	0.923	1.043	1.074	0.946	8.01
97)	T	Butyl benzyl phthalate			0.318	0.342	0.401	0.384	0.557	0.620	0.652	*L	0.9907
98)	I	IS2_Phenanthrene-d10	----------ISTD----------										
99)	T	Diphenamid			0.398	0.403	0.444	0.484	0.554	0.623	0.639	0.507	19.79
100)	I	IS3_Phenanthrene-d10	----------ISTD----------										
101)	T	n-Octadecane	0.286	0.314	0.366	0.378	0.385	0.375	0.422	0.435	0.471	0.381	15.10
102)	T	Parathion			0.053	0.053	0.056	0.066	0.091	0.109	0.134	*Q	0.9983
103)	T	3,3'-Dimethylbenzidine				0.377	0.480	0.541	0.757	0.800	0.926	*L	0.9909
104)	I	IS1_Chrysene-d12	----------ISTD----------										
105)	T	Benzo[a]anthracene	1.617	1.570	1.439	1.357	1.331	1.335	1.472	1.474	1.485	1.453	6.91
106)	T	3,3'-Dichlorobenzidine		0.323	0.338	0.374	0.418	0.422	0.521	0.547	0.554	*L	0.9961
107)	T	Chrysene		1.739	1.499	1.395	1.295	1.286	1.337	1.326	1.350	1.403	10.81
108)	T	bis(2-Ethylhexyl)phthalate		0.527	0.534	0.564	0.662	0.667	0.862	0.884	0.905	*Q	0.9973
109)	T	Di-n-octylphthalate			0.742	0.786	0.999	1.008	1.405	1.499	1.568	*L	0.9935
110)	T	Benzo(b)fluoranthene	1.184	1.338	1.252	1.212	1.197	1.198	1.244	1.304	1.334	1.251	4.80
111)	T	Benzo(k)fluoranthene	1.077	1.225	1.303	1.168	1.262	1.274	1.320	1.352	1.281	1.251	6.75
112)	T	Benzo(a)pyrene	0.929	1.038	1.086	1.053	1.096	1.109	1.188	1.196	1.211	1.101	8.19
113)	I	IS1_Perylene-d12	----------ISTD----------										
114)	T	Indeno(1,2,3-cd)pyrene		1.038	1.025	0.971	1.020	1.069	1.195	1.207	1.259	1.098	9.69
115)	T	Dibenzo[a,h]anthracene	0.861	1.013	1.025	1.013	1.012	1.043	1.125	1.166	1.242	1.056	10.39
116)	T	Benzo(g,h,i)perylene	0.957	1.101	0.996	0.983	0.996	1.024	1.039	0.894	0.806	0.977	8.78

(#) = Out of Range

Data Path : I:\8270\SV107\240730ical\
Data File : Tune1.D
Acq On : 30 Jul 2024 7:00 pm
Operator : SV107:cmm
Sample : Tune lot #10903
Misc : WG1954578,,
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Aug 02 07:49:58 2024



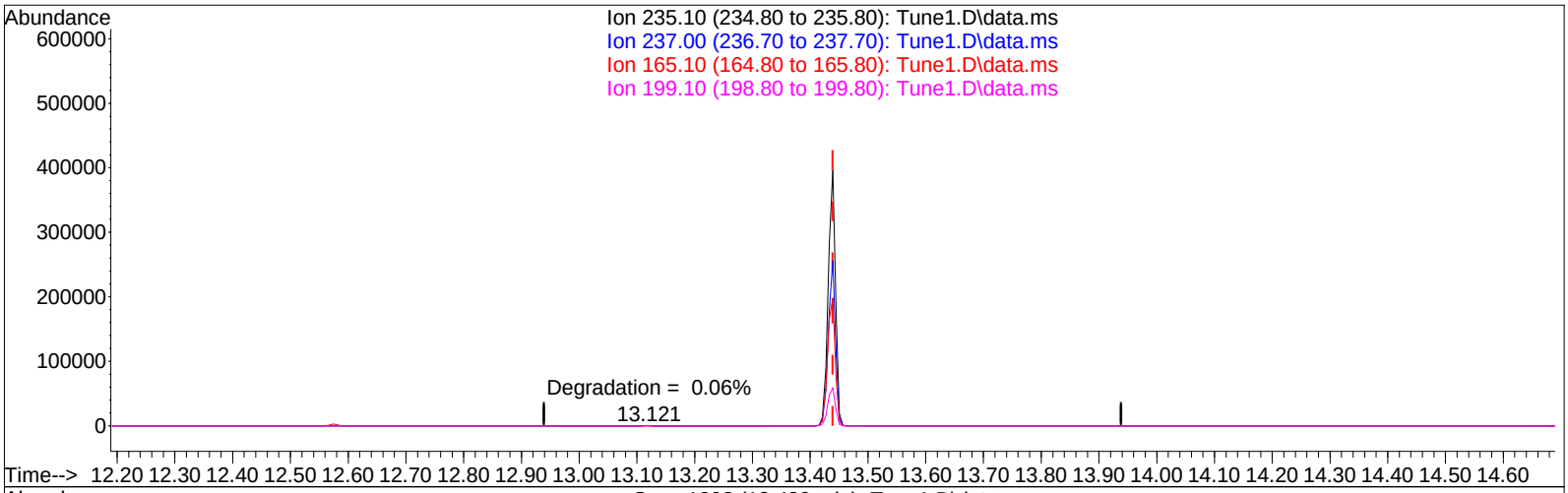
Spectrum Information: Average of 11.574 to 11.586 min.

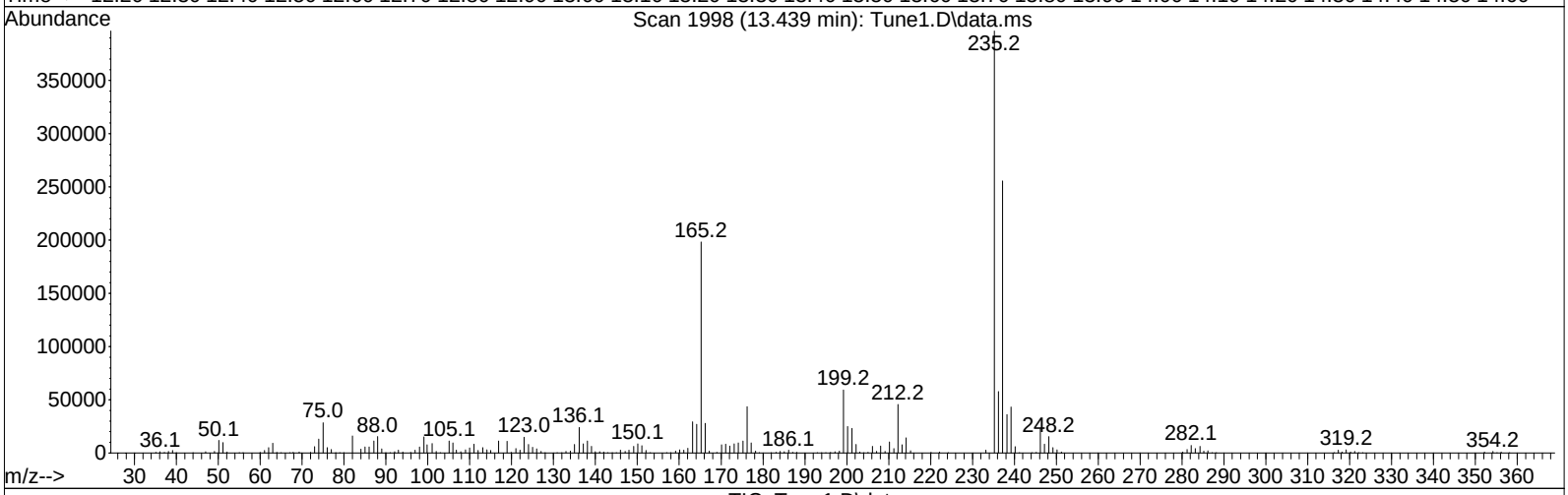
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	33.5	37098	PASS
68	69	0.00	2	1.6	558	PASS
69	69	100	100	100.0	35288	PASS
70	69	0.00	2	0.5	167	PASS
127	198	10	80	45.1	49856	PASS
197	198	0.00	2	0.8	853	PASS
198	198	100	100	100.0	110600	PASS
199	198	5	9	6.8	7510	PASS
275	198	10	60	21.7	24031	PASS
365	198	1	100	2.4	2656	PASS
441	442	0.01	24	16.2	15239	PASS
442	198	50	100	85.0	94016	PASS
443	442	15	24	19.9	18667	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240730ical\
Data File : Tune1.D
Acq On : 30 Jul 2024 7:00 pm
Operator : SV107:cmm
Sample : Tune lot #10903
Misc : WG1954578,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Aug 02 08:18:24 2024
Quant Method : I:\8270\SV107\240730ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 08:19:44 2024
Response via : Initial Calibration





TIC: Tune1.D\data.ms

(6) DDT (T)

13.439min (-0.000) 56.19

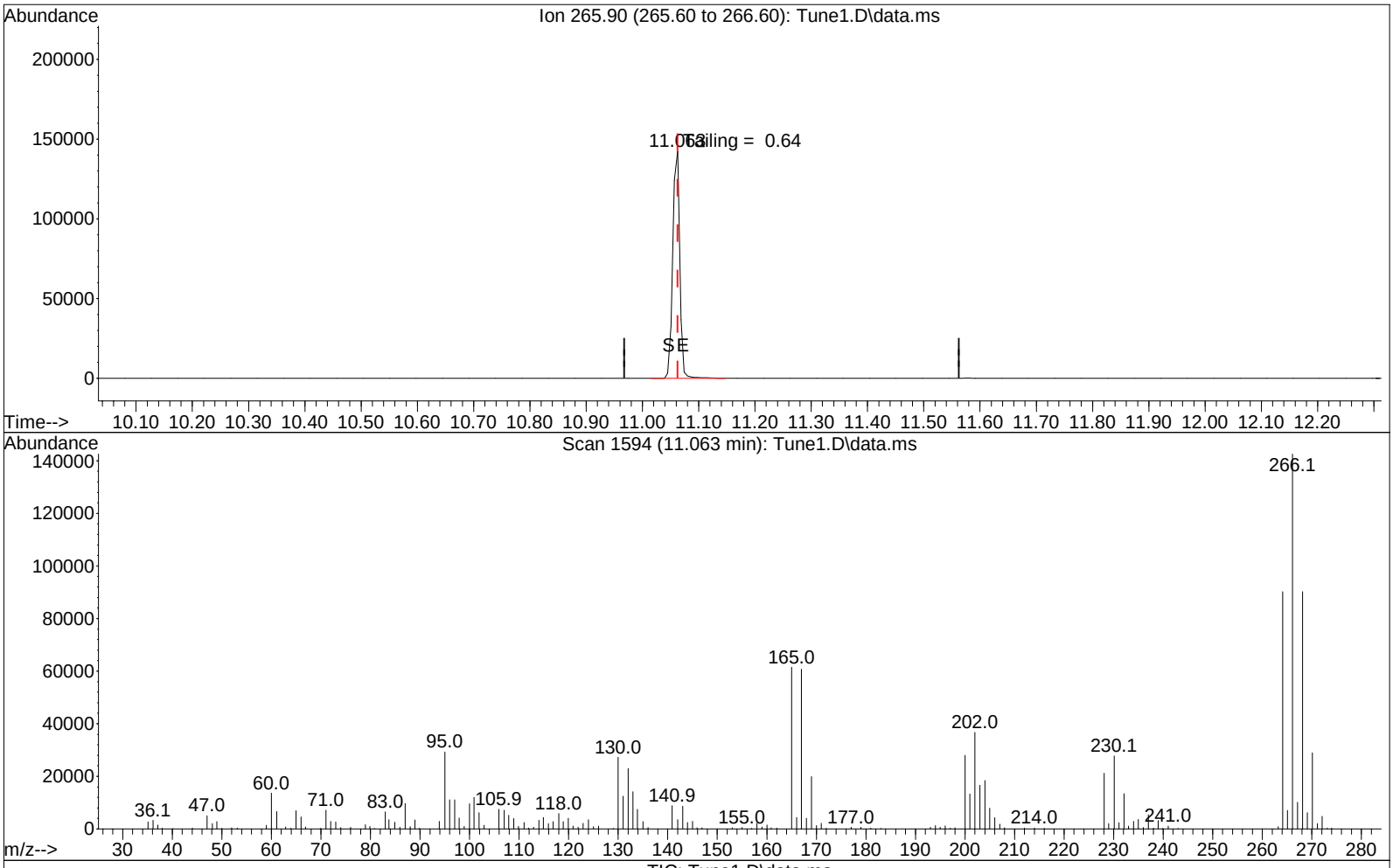
response 342548

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	64.30	63.85
165.10	55.40	52.22
199.10	16.20	15.55

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240730ical\
Data File : Tune1.D
Acq On : 30 Jul 2024 7:00 pm
Operator : SV107:cmm
Sample : Tune lot #10903
Misc : WG1954578,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Aug 02 08:18:24 2024
Quant Method : I:\8270\SV107\240730ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 08:19:44 2024
Response via : Initial Calibration



TIC: Tune1.D\data.ms

(1) Pentachlorophenol (T)

11.063min (-0.000) 58.37

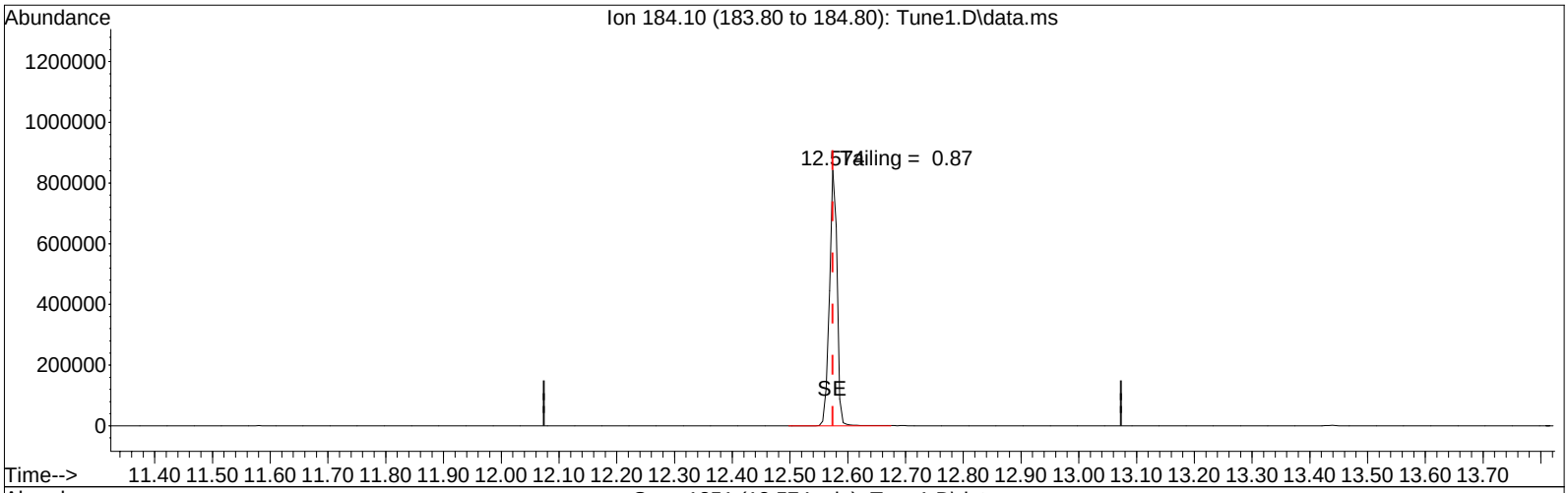
response 122608

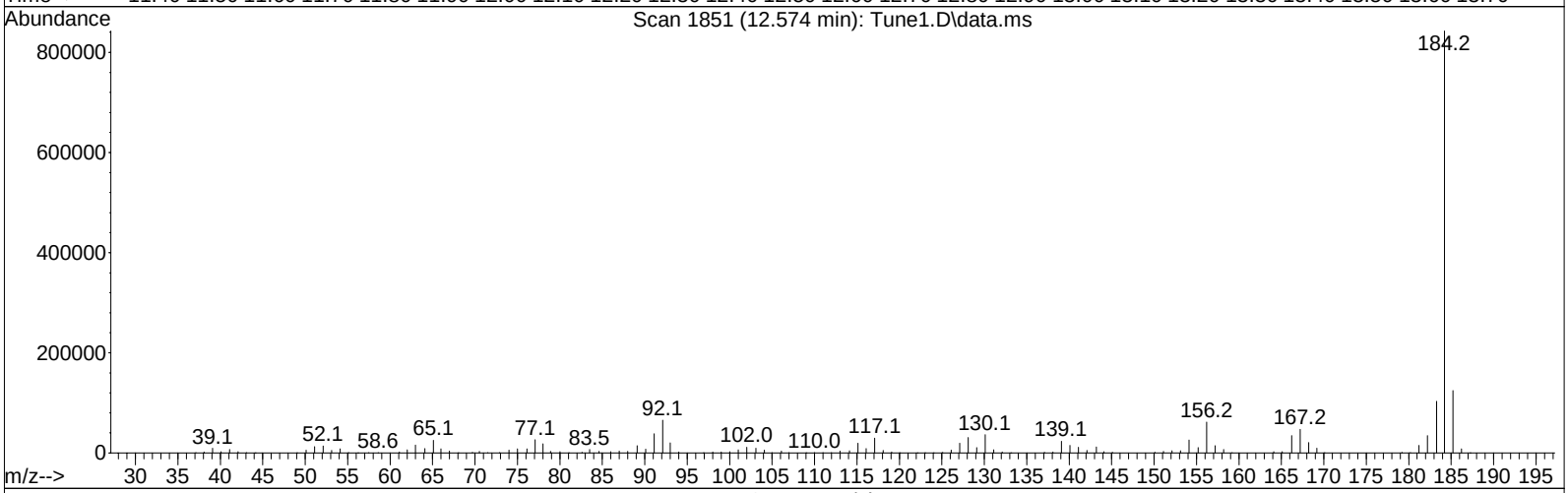
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240730ical\
Data File : Tune1.D
Acq On : 30 Jul 2024 7:00 pm
Operator : SV107:cmm
Sample : Tune lot #10903
Misc : WG1954578,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Aug 02 08:18:24 2024
Quant Method : I:\8270\SV107\240730ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 08:19:44 2024
Response via : Initial Calibration





TIC: Tune1.D\data.ms

(3) Benzidine (T)

12.574min (+ 0.000) 76.48

response 778554

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\SV107\240730ical\
Data File : ABNL9.D
Acq On : 30 Jul 2024 7:25 pm
Operator : SV107:cmm
Sample : IL2,32,,ABNL50 Lot# 10778
Misc : WG1954578,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 17:12:45 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:14:00 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	6.610	152	16045	4.000 ug/ml	# 0.00
Standard Area 1 = 14527			Recovery =	110.45%	
35) IS1_Naphthalene-d8	8.022	136	61910	4.000 ug/ml	0.00
Standard Area 1 = 53319			Recovery =	116.11%	
63) IS1_Acenaphthene-d10	9.786	164	38867	4.000 ug/ml	0.00
Standard Area 1 = 30073			Recovery =	129.24%	
88) IS1_Phenanthrene-d10	11.227	188	73059	4.000 ug/ml	0.00
Standard Area 1 = 55264			Recovery =	132.20%	
104) IS1_Chrysene-d12	13.904	240	78651	4.000 ug/ml	0.01
Standard Area 1 = 49010			Recovery =	160.48%	
113) IS1_Perylene-d12	15.392	264	72583	4.000 ug/ml	0.01
Standard Area 1 = 53266			Recovery =	136.27%	
System Monitoring Compounds					
4) 2-Fluorophenol	4.804	112	237948	57.208 ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery =	2860.40%#	
7) Phenol-d6	6.251	99	314156	55.429 ug/ml	0.02
Spiked Amount 2.000	Range 15 - 110		Recovery =	2771.45%#	
19) Nitrobenzene-d5	7.263	82	298102	54.339 ug/ml	0.01
Spiked Amount 1.000	Range 30 - 130		Recovery =	5433.90%#	
46) 2-Fluorobiphenyl	9.139	172	743491	53.378 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	5337.80%#	
79) 2,4,6-Tribromophenol	10.563	330	112883	65.309 ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery =	3265.45%#	
96) 4-Terphenyl-d14	12.827	244	980576	56.767 ug/ml	0.01
Spiked Amount 1.000	Range 30 - 130		Recovery =	5676.70%#	
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.363	74	147283	54.431 ug/ml#	62
3) Pyridine	2.404	79	232654	53.387 ug/ml#	60
5) Aniline	6.216	93	382674	54.051 ug/ml	97
6) 2-Chlorophenol	6.357	128	281414	54.204 ug/ml	92
8) Phenol	6.263	94	335463	53.390 ug/ml	95
9) Bis(2-chloroethyl)ether	6.339	93	257966	51.559 ug/ml#	81
10) 1,3-Dichlorobenzene	6.539	146	329094	51.682 ug/ml	98
11) 1,4-Dichlorobenzene	6.633	146	330535	51.518 ug/ml	98
12) 1,2-Dichlorobenzene	6.810	146	327433	52.270 ug/ml	97
13) Benzyl alcohol	6.816	79	230792	57.841 ug/ml	94
14) Bis(2-chloroisopropyl)...	6.981	45	342530	52.799 ug/ml#	39

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL9.D
Acq On : 30 Jul 2024 7:25 pm
Operator : SV107:cmm
Sample : IL2,32,,ABNL50 Lot# 10778
Misc : WG1954578,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 17:12:45 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:14:00 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.975	108	264022	58.432	ug/ml	99
16) Hexachloroethane	7.192	117	123234	54.593	ug/ml#	62
17) n-Nitrosodi-n-propylamine	7.139	70	194368	56.211	ug/ml	96
18) 3-Methylphenol/4-Methy...	7.163	108	278074	57.217	ug/ml	99
20) Nitrobenzene	7.281	77	286915	54.521	ug/ml	95
21) Isophorone	7.563	82	531940	56.581	ug/ml	99
22) 2-Nitrophenol	7.633	139	159441	59.637	ug/ml	88
23) 2,4-Dimethylphenol	7.728	107	260353	61.887	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.822	93	338934	53.313	ug/ml	97
25) 2,4-Dichlorophenol	7.898	162	277310	60.841	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.975	180	301659	53.527	ug/ml	97
36) Naphthalene	8.045	128	893303	50.989	ug/ml	98
37) Benzoic Acid	7.922	105	210740M1	64.388	ug/ml	
38) 4-Chloroaniline	8.122	65	111123	56.808	ug/ml	80
39) Hexachlorobutadiene	8.204	225	181992	52.541	ug/ml	98
40) p-Chloro-m-cresol	8.645	107	267107	61.009	ug/ml	97
41) 2-Methylnaphthalene	8.757	142	614009	53.810	ug/ml	96
42) 1-Methylnaphthalene	8.857	115	203769	55.272	ug/ml	98
43) Hexachlorocyclopentadiene	8.933	237	197610	60.321	ug/ml	98
44) 2,4,6-Trichlorophenol	9.051	196	227153	62.703	ug/ml	98
45) 2,4,5-Trichlorophenol	9.080	196	237583	61.729	ug/ml	99
47) 2-Chloronaphthalene	9.239	162	625337	52.953	ug/ml	96
48) 2-Nitroaniline	9.351	138	197223	62.435	ug/ml#	82
49) 1,4-Dinitrobenzene	9.486	168	97080	57.100	ug/ml#	72
50) 1,3-Dinitrobenzene	9.569	168	116834	58.506	ug/ml#	1
51) Dimethyl phthalate	9.563	163	719384	53.885	ug/ml#	98
52) Acenaphthylene	9.645	152	998765	56.981	ug/ml	98
53) 2,6-Dinitrotoluene	9.604	165	152938	58.530	ug/ml#	77
54) 1,2-Dinitrobenzene	9.651	168	72152	60.776	ug/ml#	1
64) 3-Nitroaniline	9.763	138	174782	56.208	ug/ml#	86
65) Acenaphthene	9.822	154	582107	52.642	ug/ml	91
66) 2,4-Dinitrophenol	9.863	184	111618	70.170	ug/ml#	86
67) Dibenzofuran	9.992	168	929611	50.915	ug/ml	97
68) 2,4-Dinitrotoluene	9.992	165	240681	60.652	ug/ml	86
69) 4-Nitrophenol	9.945	65	136287	55.426	ug/ml#	82
70) 2,3,5,6-Tetrachlorophenol	10.074	232	207462	62.599	ug/ml	99
71) 2,3,4,6-Tetrachlorophenol	10.122	232	198060	62.660	ug/ml	98
72) Diethyl phthalate	10.257	149	691153	53.602	ug/ml	97
73) Fluorene	10.327	166	747810	54.806	ug/ml	94
74) 4-Chlorophenyl phenyl ...	10.339	204	361615	52.202	ug/ml	89

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL9.D
Acq On : 30 Jul 2024 7:25 pm
Operator : SV107:cmm
Sample : IL2,32,,ABNL50 Lot# 10778
Misc : WG1954578,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 17:12:45 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:14:00 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	10.369	138	169829M6	54.591	ug/ml	
76)	4,6-Dinitro-o-cresol	10.392	198	139383	70.400	ug/ml#	64
77)	NDPA/DPA	10.457	169	629961	55.615	ug/ml	96
78)	Azobenzene	10.492	77	628779	52.763	ug/ml#	92
80)	4-Bromophenyl phenyl e...	10.810	248	205714	55.003	ug/ml#	86
81)	Hexachlorobenzene	10.869	284	227617	55.156	ug/ml#	87
82)	Pentachlorophenol	11.057	266	167777	63.331	ug/ml	99
89)	Phenanthrene	11.257	178	1090077	51.840	ug/ml	97
90)	Anthracene	11.304	178	1116004	56.112	ug/ml	96
91)	Carbazole	11.474	167	1053361	58.044	ug/ml	97
92)	Di-n-butylphthalate	11.851	149	1255979	62.853	ug/ml	97
93)	Fluoranthene	12.421	202	1291897	56.091	ug/ml#	92
94)	Benzidine	12.568	184	817502	65.143	ug/ml#	94
95)	Pyrene	12.639	202	1374440	54.855	ug/ml	97
97)	Butyl benzyl phthalate	13.351	149	595332	69.703	ug/ml	87
105)	Benzo(a)anthracene	13.898	228	1460115	51.090	ug/ml	96
106)	3,3'-Dichlorobenzidine	13.892	252	544467	63.353	ug/ml#	97
107)	Chrysene	13.939	228	1327191	48.097	ug/ml	96
108)	Bis(2-ethylhexyl)phtha...	13.992	149	889781	67.399	ug/ml#	96
109)	Di-n-octylphthalate	14.686	149	1541499	73.051	ug/ml#	69
110)	Benzo(b)fluoranthene	15.027	252	1311083	53.281	ug/ml#	94
111)	Benzo(k)fluoranthene	15.056	252	1259485	51.187	ug/ml#	93
112)	Benzo(a)pyrene	15.345	252	1190571	55.009	ug/ml#	93
114)	Indeno(1,2,3-cd)pyrene	16.439	276	1142335M6	57.335	ug/mL	
115)	Dibenzo(a,h)anthracene	16.462	278	1126694	58.821	ug/ml#	91
116)	Benzo(ghi)perylene	16.709	276	731173	41.227	ug/ml#	89

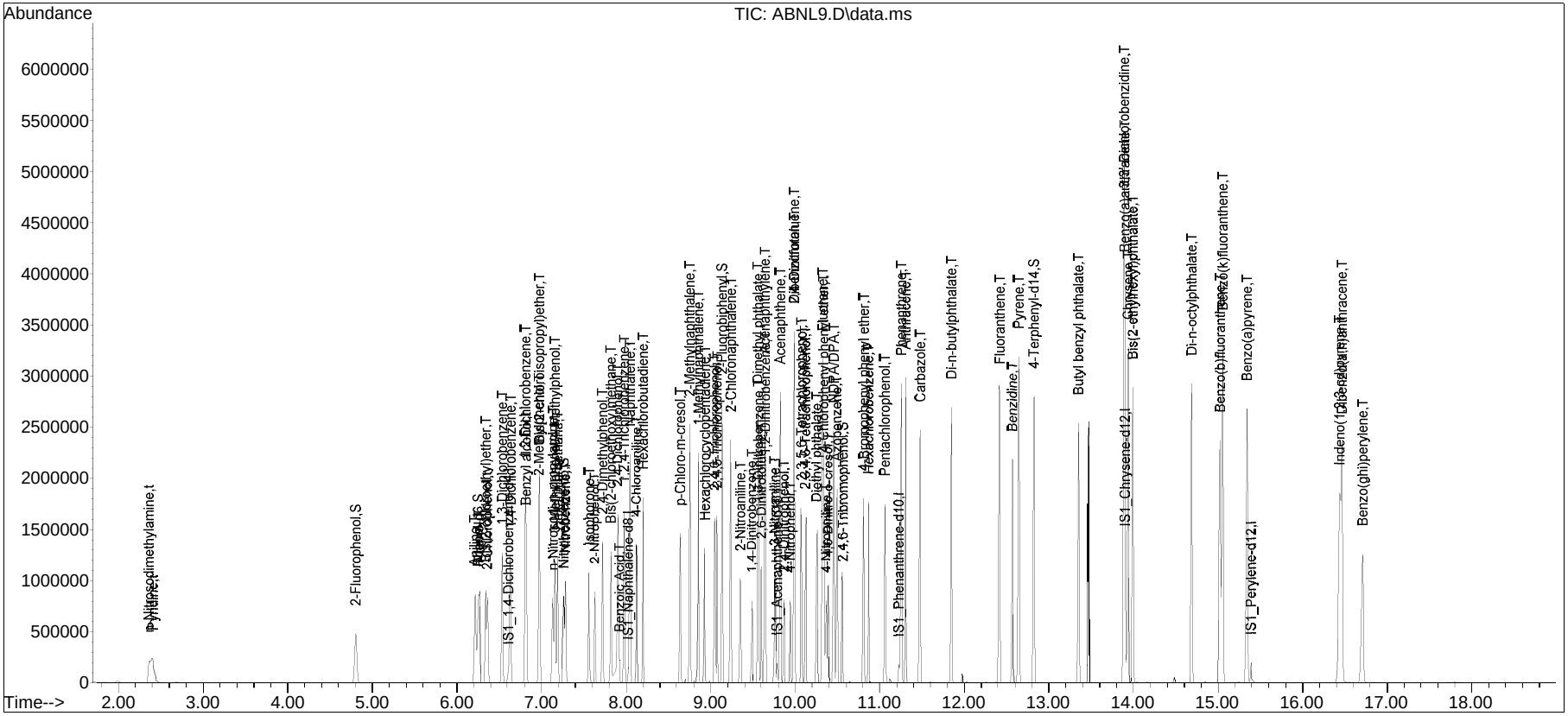
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL9.D
Acq On : 30 Jul 2024 7:25 pm
Operator : SV107:cmm
Sample : IL2,32,,ABNL50 Lot# 10778
Misc : WG1954578,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 17:12:45 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:14:00 2024
Response via : Initial Calibration

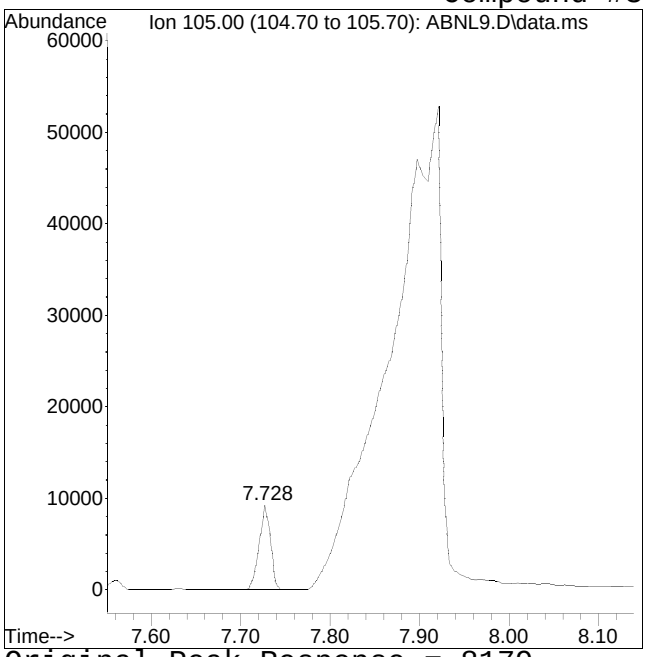
Sub List : ABNical - ABN ical sublistal\ABNL6.D•



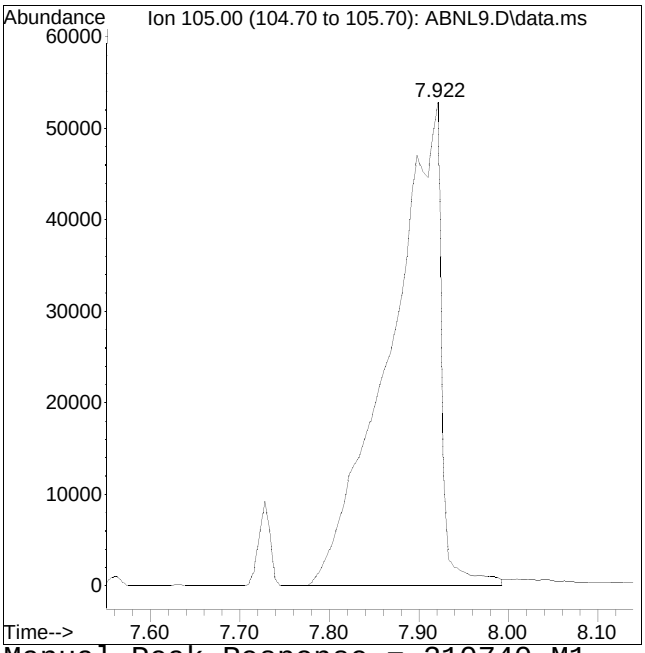
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL9.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 7:25 pm Instrument : SV107
Sample : IL2,32,,ABNL50 Lot# 10778 Quant Date : 7/31/2024 5:14 pm

Compound #37: Benzoic Acid



Original Peak Response = 8179



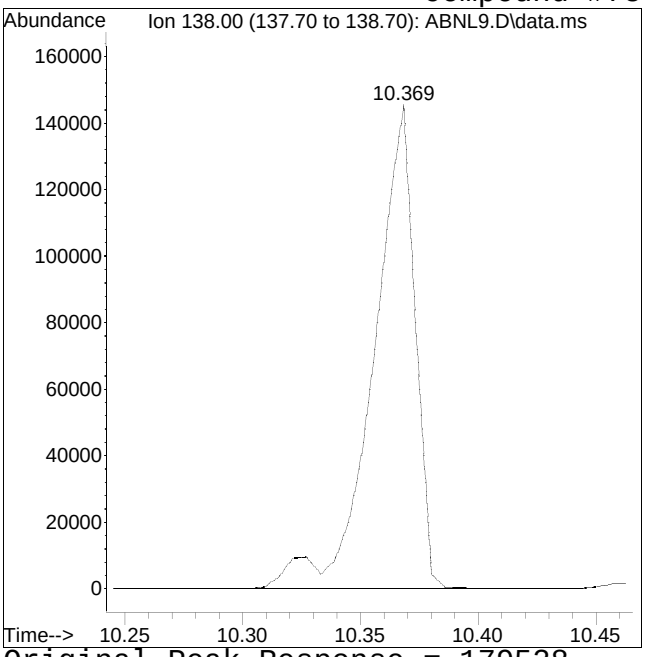
Manual Peak Response = 210740 M1

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

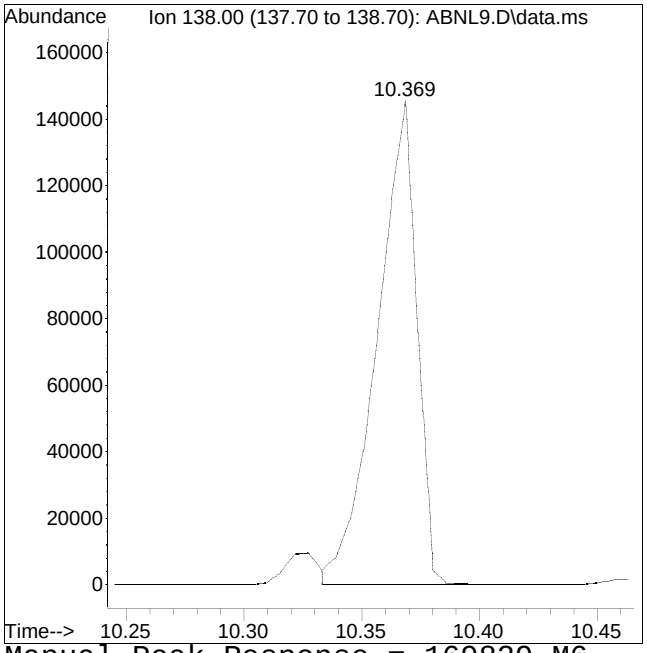
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL9.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 7:25 pm Instrument : SV107
Sample : IL2,32,,ABNL50 Lot# 10778 Quant Date : 7/31/2024 5:14 pm

Compound #75: 4-Nitroaniline



Original Peak Response = 179528



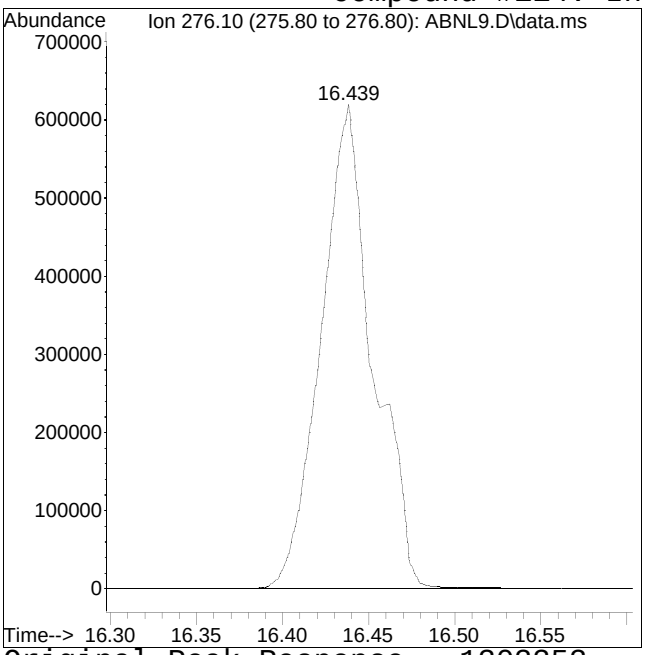
Manual Peak Response = 169829 M6

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

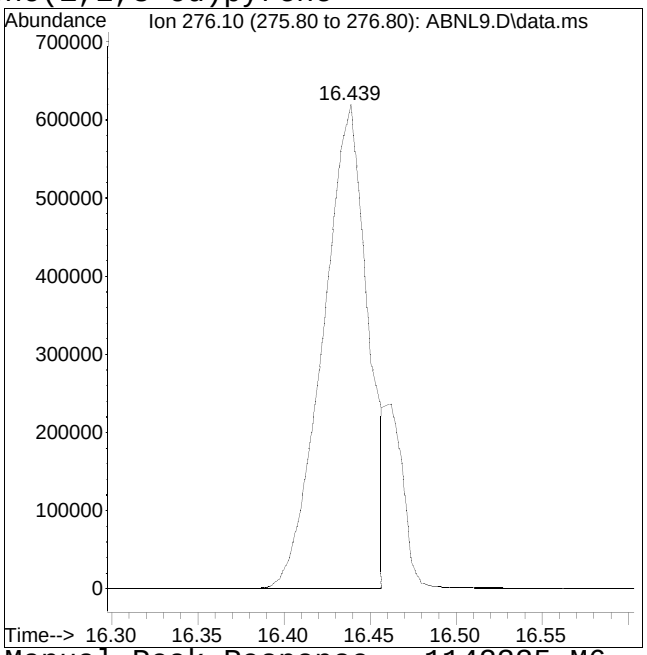
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL9.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 7:25 pm Instrument : SV107
Sample : IL2,32,,ABNL50 Lot# 10778 Quant Date : 7/31/2024 5:14 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 1303353



Manual Peak Response = 1142335 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL8.D
Acq On : 30 Jul 2024 7:51 pm
Operator : SV107:cmm
Sample : IL3,32,,ABNL25 Lot# 10779
Misc : WG1954578,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 17:12:37 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:13:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	6.610	152	19784	4.000 ug/ml	# 0.00
Standard Area 1 = 14527			Recovery = 136.19%		
35) IS1_Naphthalene-d8	8.022	136	78832	4.000 ug/ml	0.00
Standard Area 1 = 53319			Recovery = 147.85%		
63) IS1_Acenaphthene-d10	9.780	164	48045	4.000 ug/ml	0.00
Standard Area 1 = 30073			Recovery = 159.76%		
88) IS1_Phenanthrene-d10	11.227	188	91179	4.000 ug/ml	0.00
Standard Area 1 = 55264			Recovery = 164.99%		
104) IS1_Chrysene-d12	13.904	240	97295	4.000 ug/ml	0.01
Standard Area 1 = 49010			Recovery = 198.52%		
113) IS1_Perylene-d12	15.392	264	95281	4.000 ug/ml	0.01
Standard Area 1 = 53266			Recovery = 178.88%		
System Monitoring Compounds					
4) 2-Fluorophenol	4.804	112	136121	26.541 ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 1327.05%#		
7) Phenol-d6	6.239	99	184647	26.422 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1321.10%#		
19) Nitrobenzene-d5	7.257	82	178841	26.439 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2643.90%#		
46) 2-Fluorobiphenyl	9.139	172	441921	24.916 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2491.60%#		
79) 2,4,6-Tribromophenol	10.557	330	64384	30.134 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1506.70%#		
96) 4-Terphenyl-d14	12.821	244	594298	27.567 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2756.70%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.363	74	88613	26.559 ug/ml#	63
3) Pyridine	2.398	79	131770	24.523 ug/ml#	62
5) Aniline	6.210	93	225613	25.844 ug/ml	99
6) 2-Chlorophenol	6.357	128	166693	26.039 ug/ml	92
8) Phenol	6.257	94	197699	25.518 ug/ml	94
9) Bis(2-chloroethyl)ether	6.334	93	152974	24.796 ug/ml#	81
10) 1,3-Dichlorobenzene	6.539	146	189412	24.124 ug/ml	98
11) 1,4-Dichlorobenzene	6.628	146	192748	24.365 ug/ml	98
12) 1,2-Dichlorobenzene	6.804	146	196936	25.497 ug/ml	97
13) Benzyl alcohol	6.810	79	137799	28.008 ug/ml	95
14) Bis(2-chloroisopropyl)...	6.981	45	205710	25.716 ug/ml#	41

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL8.D
Acq On : 30 Jul 2024 7:51 pm
Operator : SV107:cmm
Sample : IL3,32,,ABNL25 Lot# 10779
Misc : WG1954578,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 17:12:37 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:13:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.975	108	153007	27.463	ug/ml	99
16) Hexachloroethane	7.192	117	72340	25.990	ug/ml#	64
17) n-Nitrosodi-n-propylamine	7.133	70	115995	27.206	ug/ml	96
18) 3-Methylphenol/4-Methy...	7.157	108	163888	27.349	ug/ml	99
20) Nitrobenzene	7.281	77	173465	26.733	ug/ml	96
21) Isophorone	7.551	82	319131	27.530	ug/ml	99
22) 2-Nitrophenol	7.628	139	93940	28.497	ug/ml	88
23) 2,4-Dimethylphenol	7.722	107	146941	28.327	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.816	93	199177	25.409	ug/ml	97
25) 2,4-Dichlorophenol	7.892	162	163550	29.101	ug/ml	94
26) 1,2,4-Trichlorobenzene	7.975	180	176172	25.352	ug/ml	97
36) Naphthalene	8.039	128	534374	23.954	ug/ml	99
37) Benzoic Acid	7.886	105	122401	29.370	ug/ml	95
38) 4-Chloroaniline	8.122	65	66585	26.732	ug/ml	80
39) Hexachlorobutadiene	8.204	225	110207	24.987	ug/ml	98
40) p-Chloro-m-cresol	8.639	107	157012	28.164	ug/ml	98
41) 2-Methylnaphthalene	8.757	142	362380	24.941	ug/ml	96
42) 1-Methylnaphthalene	8.851	115	120562	25.682	ug/ml	98
43) Hexachlorocyclopentadiene	8.933	237	115101	27.593	ug/ml	99
44) 2,4,6-Trichlorophenol	9.051	196	133881	29.023	ug/ml	98
45) 2,4,5-Trichlorophenol	9.080	196	143516	29.284	ug/ml	98
47) 2-Chloronaphthalene	9.233	162	374512	24.906	ug/ml	96
48) 2-Nitroaniline	9.351	138	117363	29.179	ug/ml	83
49) 1,4-Dinitrobenzene	9.480	168	58978	27.243	ug/ml#	72
50) 1,3-Dinitrobenzene	9.557	168	69271	27.242	ug/ml#	1
51) Dimethyl phthalate	9.557	163	432355	25.434	ug/ml#	98
52) Acenaphthylene	9.639	152	595537	26.683	ug/ml	98
53) 2,6-Dinitrotoluene	9.598	165	90782	27.285	ug/ml#	79
54) 1,2-Dinitrobenzene	9.645	168	42678	28.232	ug/ml#	1
64) 3-Nitroaniline	9.757	138	101817	26.488	ug/ml#	87
65) Acenaphthene	9.816	154	341053	24.951	ug/ml	90
66) 2,4-Dinitrophenol	9.857	184	65469	33.295	ug/ml#	86
67) Dibenzofuran	9.986	168	542797	24.050	ug/ml	98
68) 2,4-Dinitrotoluene	9.986	165	141152	28.776	ug/ml	88
69) 4-Nitrophenol	9.939	65	81325	26.756	ug/ml#	83
70) 2,3,5,6-Tetrachlorophenol	10.074	232	120693	29.461	ug/ml	99
71) 2,3,4,6-Tetrachlorophenol	10.116	232	113468	29.040	ug/ml	96
72) Diethyl phthalate	10.251	149	408769	25.646	ug/ml	97
73) Fluorene	10.322	166	428233	25.389	ug/ml	93
74) 4-Chlorophenyl phenyl ...	10.333	204	210921	24.632	ug/ml	89

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL8.D
Acq On : 30 Jul 2024 7:51 pm
Operator : SV107:cmm
Sample : IL3,32,,ABNL25 Lot# 10779
Misc : WG1954578,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 17:12:37 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:13:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75)	4-Nitroaniline	10.357	138	101955M6	26.512	ug/ml		
76)	4,6-Dinitro-o-cresol	10.386	198	81264	33.204	ug/ml	#	62
77)	NDPA/DPA	10.457	169	366085	26.145	ug/ml		96
78)	Azobenzene	10.486	77	369821	25.105	ug/ml	#	93
80)	4-Bromophenyl phenyl e...	10.810	248	117042	25.316	ug/ml	#	87
81)	Hexachlorobenzene	10.863	284	131268	25.732	ug/ml	#	87
82)	Pentachlorophenol	11.057	266	98147	29.970	ug/ml		99
89)	Phenanthrene	11.251	178	645037	24.579	ug/ml		98
90)	Anthracene	11.298	178	649926	26.184	ug/ml		97
91)	Carbazole	11.469	167	610333	26.948	ug/ml		97
92)	Di-n-butylphthalate	11.845	149	747962	29.992	ug/ml		98
93)	Fluoranthene	12.416	202	788455	27.430	ug/ml	#	92
94)	Benzidine	12.563	184	443517	28.318	ug/ml	#	94
95)	Pyrene	12.633	202	829814	26.537	ug/ml		97
97)	Butyl benzyl phthalate	13.351	149	353395	33.154	ug/ml		88
105)	Benzo(a)anthracene	13.892	228	896449	25.356	ug/ml		97
106)	3,3'-Dichlorobenzidine	13.886	252	332727	31.296	ug/ml	#	97
107)	Chrysene	13.933	228	806416	23.624	ug/ml		97
108)	Bis(2-ethylhexyl)phtha...	13.992	149	537372	32.905	ug/ml	#	95
109)	Di-n-octylphthalate	14.686	149	911366	34.913	ug/ml	#	70
110)	Benzo(b)fluoranthene	15.021	252	792685	26.041	ug/ml	#	94
111)	Benzo(k)fluoranthene	15.051	252	821903	27.002	ug/ml	#	93
112)	Benzo(a)pyrene	15.345	252	727415	27.169	ug/ml	#	93
114)	Indeno(1,2,3-cd)pyrene	16.433	276	718751M6	27.481	ug/mL		
115)	Dibenzo(a,h)anthracene	16.456	278	694234	27.610	ug/ml	#	91
116)	Benzo(ghi)perylene	16.709	276	532134	22.856	ug/ml	#	89

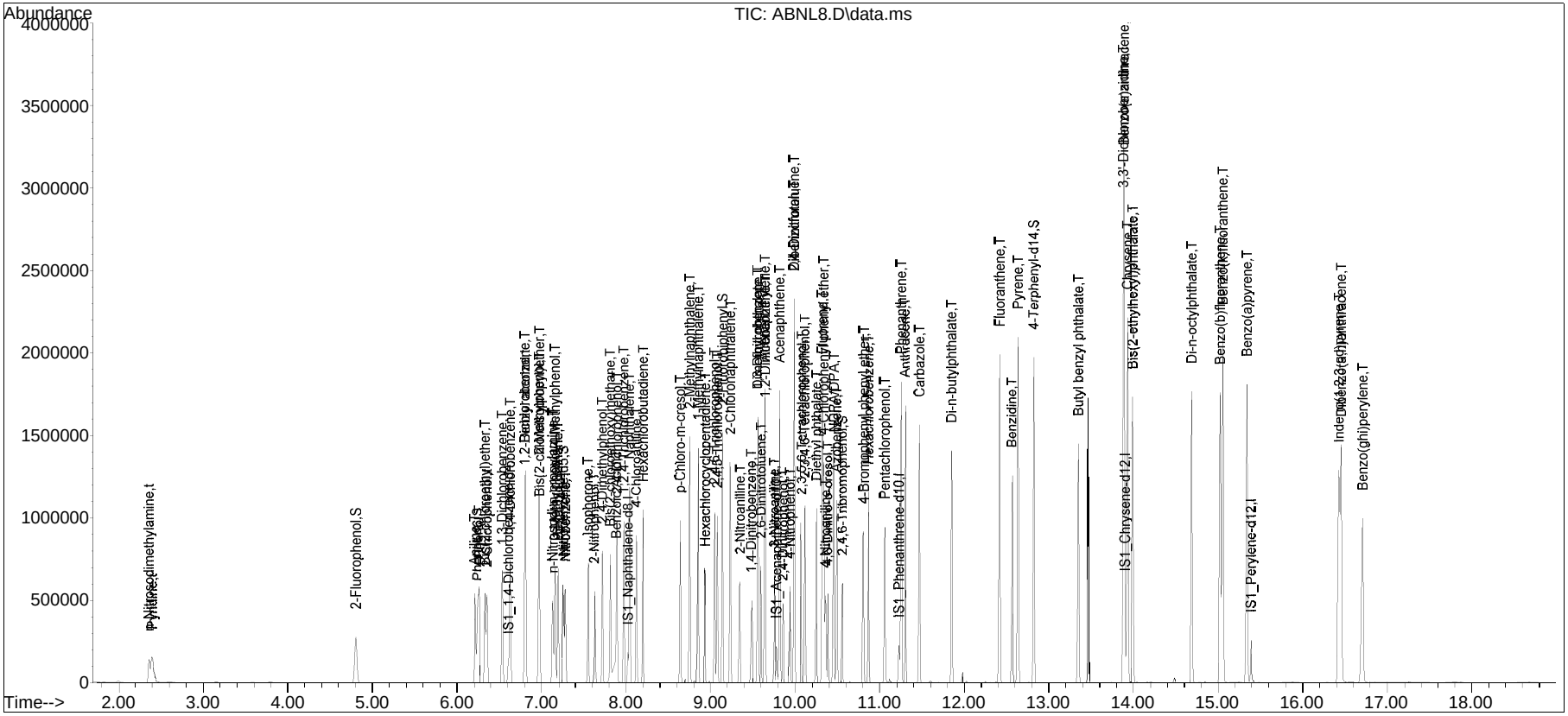
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL8.D
Acq On : 30 Jul 2024 7:51 pm
Operator : SV107:cmm
Sample : IL3,32,,ABNL25 Lot# 10779
Misc : WG1954578,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 17:12:37 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:13:52 2024
Response via : Initial Calibration

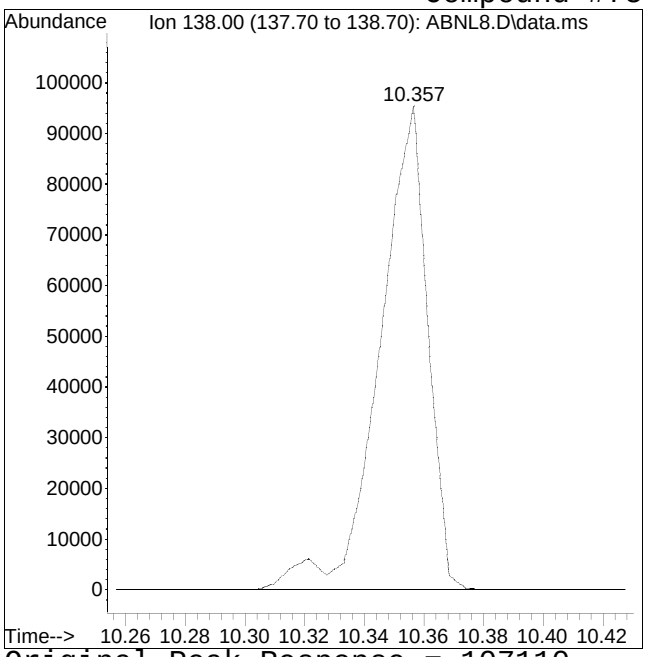
Sub List : ABNical - ABN ical sublistal\ABNL6.D•



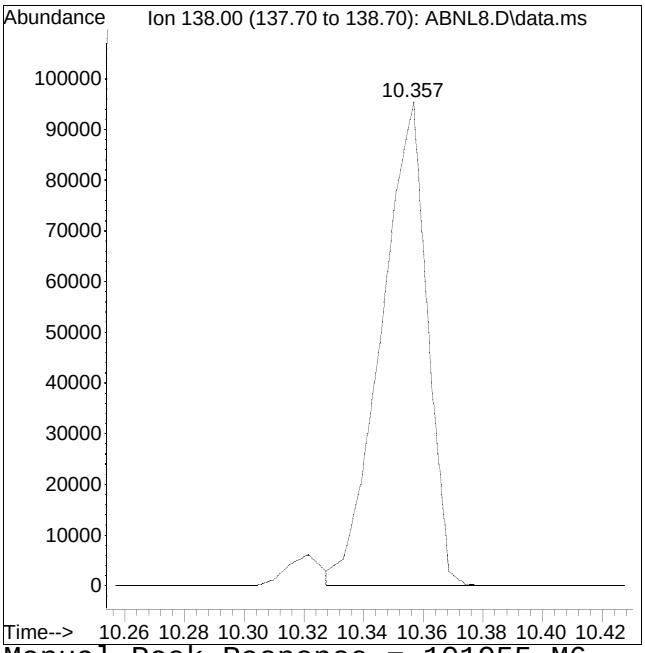
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL8.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 7:51 pm Instrument : SV107
Sample : IL3,32,,ABNL25 Lot# 10779 Quant Date : 7/31/2024 5:13 pm

Compound #75: 4-Nitroaniline



Original Peak Response = 107110



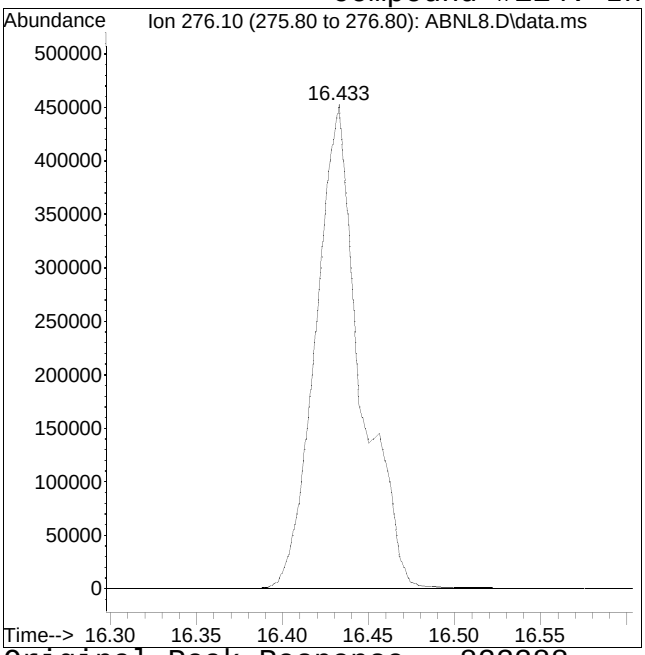
Manual Peak Response = 101955 M6

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

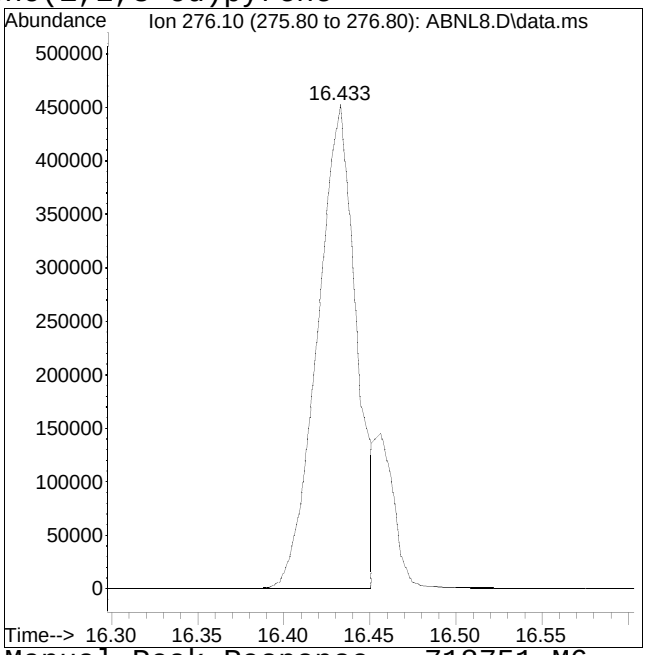
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL8.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 7:51 pm Instrument : SV107
Sample : IL3,32,,ABNL25 Lot# 10779 Quant Date : 7/31/2024 5:13 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 823388



Manual Peak Response = 718751 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL7.D
Acq On : 30 Jul 2024 8:16 pm
Operator : SV107:cmm
Sample : IL4,32,,ABNL10 Lot# 10780
Misc : WG1954578,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 17:12:29 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:13:44 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.610	152	17079	4.000	ug/ml	# 0.00
Standard Area 1 = 14527			Recovery = 117.57%			
35) IS1_Naphthalene-d8	8.016	136	65447	4.000	ug/ml	0.00
Standard Area 1 = 53319			Recovery = 122.75%			
63) IS1_Acenaphthene-d10	9.780	164	41564	4.000	ug/ml	0.00
Standard Area 1 = 30073			Recovery = 138.21%			
88) IS1_Phenanthrene-d10	11.221	188	78148	4.000	ug/ml	0.00
Standard Area 1 = 55264			Recovery = 141.41%			
104) IS1_Chrysene-d12	13.898	240	78446	4.000	ug/ml	0.00
Standard Area 1 = 49010			Recovery = 160.06%			
113) IS1_Perylene-d12	15.392	264	81164	4.000	ug/ml	0.01
Standard Area 1 = 53266			Recovery = 152.37%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.798	112	48013	10.844	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 542.20%#			
7) Phenol-d6	6.234	99	63013	10.445	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 522.25%#			
19) Nitrobenzene-d5	7.251	82	60064	10.286	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 1028.60%#			
46) 2-Fluorobiphenyl	9.133	172	145700	9.895	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 989.50%#			
79) 2,4,6-Tribromophenol	10.551	330	19710	10.663	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 533.15%#			
96) 4-Terphenyl-d14	12.815	244	180269	9.756	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 975.60%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.357	74	31112	10.802	ug/ml#	64
3) Pyridine	2.393	79	48364	10.426	ug/ml#	61
5) Aniline	6.210	93	78083	10.361	ug/ml	98
6) 2-Chlorophenol	6.351	128	57310	10.370	ug/ml	92
8) Phenol	6.251	94	67379	10.074	ug/ml	96
9) Bis(2-chloroethyl)ether	6.328	93	52742	9.903	ug/ml#	81
10) 1,3-Dichlorobenzene	6.533	146	66401	9.797	ug/ml	97
11) 1,4-Dichlorobenzene	6.628	146	67545	9.890	ug/ml	98
12) 1,2-Dichlorobenzene	6.804	146	66309	9.945	ug/ml	98
13) Benzyl alcohol	6.810	79	45648	10.748	ug/ml	96
14) Bis(2-chloroisopropyl)...	6.981	45	70397	10.194	ug/ml#	42

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL7.D
Acq On : 30 Jul 2024 8:16 pm
Operator : SV107:cmm
Sample : IL4,32,,ABNL10 Lot# 10780
Misc : WG1954578,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 17:12:29 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:13:44 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.969	108	50400	10.479	ug/ml	99
16) Hexachloroethane	7.192	117	24406	10.157	ug/ml#	61
17) n-Nitrosodi-n-propylamine	7.128	70	38664	10.505	ug/ml	96
18) 3-Methylphenol/4-Methy...	7.151	108	54554	10.546	ug/ml	99
20) Nitrobenzene	7.275	77	59169	10.563	ug/ml	97
21) Isophorone	7.551	82	107871	10.779	ug/ml	98
22) 2-Nitrophenol	7.628	139	30951	10.876	ug/ml	90
23) 2,4-Dimethylphenol	7.722	107	48366	10.801	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.816	93	67352	9.953	ug/ml	97
25) 2,4-Dichlorophenol	7.886	162	54059	11.142	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.969	180	59237	9.875	ug/ml	96
36) Naphthalene	8.039	128	177922	9.607	ug/ml	99
37) Benzoic Acid	7.839	105	37167	10.742	ug/ml	95
38) 4-Chloroaniline	8.116	65	21904	10.592	ug/ml	80
39) Hexachlorobutadiene	8.204	225	36176	9.880	ug/ml	99
40) p-Chloro-m-cresol	8.639	107	51507	11.129	ug/ml	99
41) 2-Methylnaphthalene	8.751	142	120356	9.978	ug/ml	96
42) 1-Methylnaphthalene	8.851	115	39976	10.257	ug/ml	98
43) Hexachlorocyclopentadiene	8.927	237	37722	10.892	ug/ml	98
44) 2,4,6-Trichlorophenol	9.051	196	43202	11.281	ug/ml	98
45) 2,4,5-Trichlorophenol	9.074	196	46303	11.380	ug/ml	99
47) 2-Chloronaphthalene	9.233	162	123644	9.904	ug/ml	96
48) 2-Nitroaniline	9.345	138	38601	11.560	ug/ml	85
49) 1,4-Dinitrobenzene	9.474	168	19336	10.758	ug/ml#	72
50) 1,3-Dinitrobenzene	9.551	168	22417	10.619	ug/ml#	1
51) Dimethyl phthalate	9.551	163	144779	10.259	ug/ml#	98
52) Acenaphthylene	9.639	152	194972	10.522	ug/ml	99
53) 2,6-Dinitrotoluene	9.592	165	30938	11.200	ug/ml#	80
54) 1,2-Dinitrobenzene	9.633	168	14209	11.322	ug/ml#	1
64) 3-Nitroaniline	9.751	138	34932	10.505	ug/ml#	87
65) Acenaphthene	9.810	154	112483	9.512	ug/ml	90
66) 2,4-Dinitrophenol	9.851	184	20027	11.773	ug/ml#	84
67) Dibenzofuran	9.980	168	181526	9.297	ug/ml	97
68) 2,4-Dinitrotoluene	9.980	165	45495	10.721	ug/ml	91
69) 4-Nitrophenol	9.933	65	27104	10.308	ug/ml#	81
70) 2,3,5,6-Tetrachlorophenol	10.069	232	40433	11.408	ug/ml	99
71) 2,3,4,6-Tetrachlorophenol	10.116	232	38505	11.391	ug/ml	97
72) Diethyl phthalate	10.245	149	137349	9.961	ug/ml	98
73) Fluorene	10.316	166	141398	9.690	ug/ml	94
74) 4-Chlorophenyl phenyl ...	10.333	204	70427	9.507	ug/ml	89

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL7.D
Acq On : 30 Jul 2024 8:16 pm
Operator : SV107:cmm
Sample : IL4,32,,ABNL10 Lot# 10780
Misc : WG1954578,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 17:12:29 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:13:44 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75)	4-Nitroaniline	10.345	138	36866	11.081	ug/ml	#	80
76)	4,6-Dinitro-o-cresol	10.374	198	26217	12.382	ug/ml	#	62
77)	NDPA/DPA	10.451	169	122376	10.103	ug/ml		96
78)	Azobenzene	10.486	77	129734	10.180	ug/ml		95
80)	4-Bromophenyl phenyl e...	10.804	248	40032	10.009	ug/ml	#	87
81)	Hexachlorobenzene	10.857	284	43163	9.780	ug/ml	#	87
82)	Pentachlorophenol	11.051	266	30986	10.937	ug/ml		99
89)	Phenanthrene	11.245	178	216259	9.615	ug/ml		99
90)	Anthracene	11.298	178	216964	10.198	ug/ml		98
91)	Carbazole	11.463	167	207428	10.686	ug/ml		99
92)	Di-n-butylphthalate	11.845	149	234157	10.955	ug/ml		98
93)	Fluoranthene	12.410	202	249904	10.144	ug/ml	#	92
94)	Benzidine	12.563	184	149004	11.100	ug/ml	#	94
95)	Pyrene	12.633	202	266304	9.936	ug/ml		99
97)	Butyl benzyl phthalate	13.345	149	108746	11.903	ug/ml		88
105)	Benzo(a)anthracene	13.886	228	288760	10.130	ug/ml		98
106)	3,3'-Dichlorobenzidine	13.886	252	102161	11.918	ug/ml	#	96
107)	Chrysene	13.927	228	262191	9.527	ug/ml		98
108)	Bis(2-ethylhexyl)phtha...	13.992	149	169049	12.839	ug/ml	#	95
109)	Di-n-octylphthalate	14.686	149	275604	13.095	ug/ml	#	70
110)	Benzo(b)fluoranthene	15.015	252	244018	9.943	ug/ml	#	94
111)	Benzo(k)fluoranthene	15.045	252	258923	10.550	ug/ml	#	93
112)	Benzo(a)pyrene	15.333	252	233064	10.797	ug/ml	#	93
114)	Indeno(1,2,3-cd)pyrene	16.421	276	242516M6	10.885	ug/mL		
115)	Dibenzo(a,h)anthracene	16.445	278	228322	10.660	ug/ml	#	91
116)	Benzo(ghi)perylene	16.698	276	210909	10.635	ug/ml	#	89

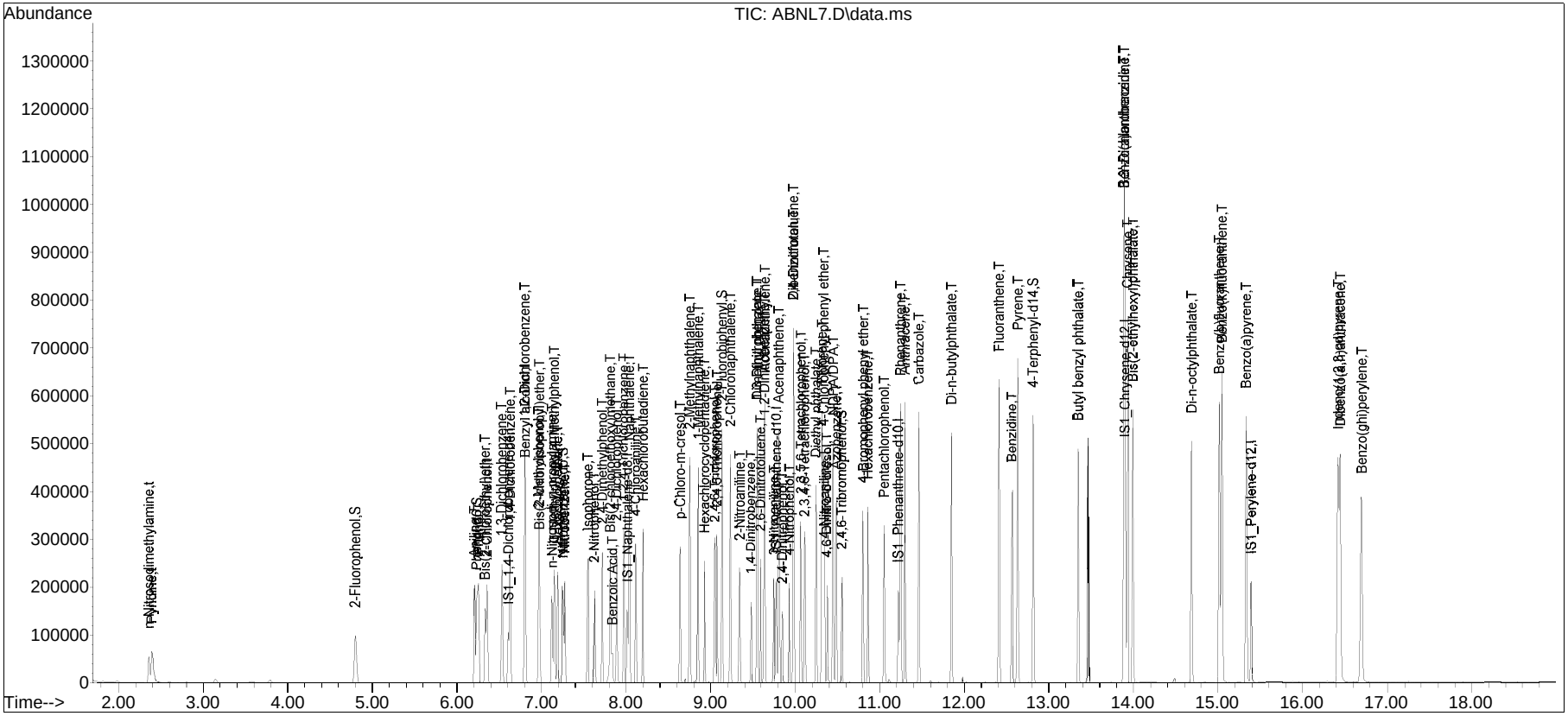
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL7.D
Acq On : 30 Jul 2024 8:16 pm
Operator : SV107:cmm
Sample : IL4,32,,ABNL10 Lot# 10780
Misc : WG1954578,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 17:12:29 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:13:44 2024
Response via : Initial Calibration

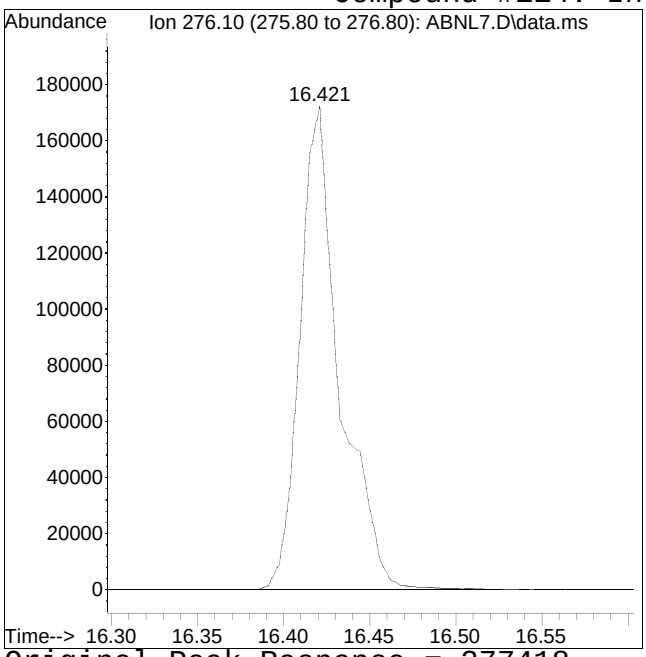
Sub List : ABNical - ABN ical sublistal\ABNL6.D•



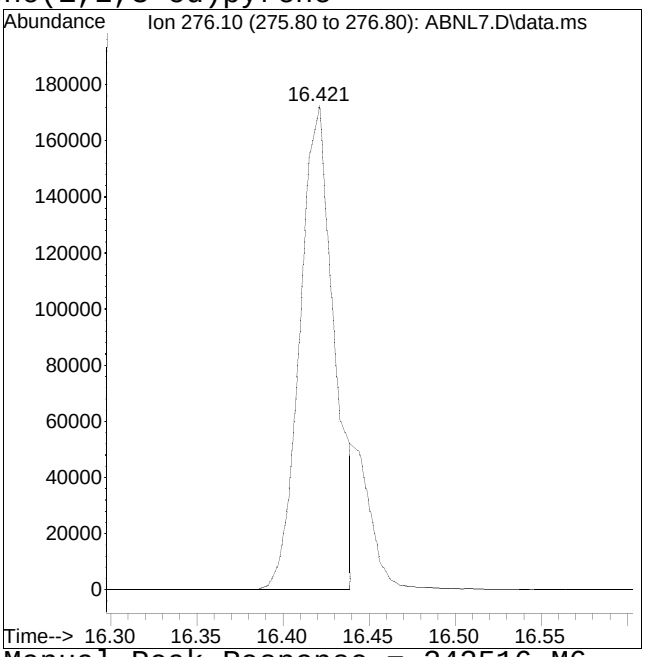
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL7.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 8:16 pm Instrument : SV107
Sample : IL4,32,,ABNL10 Lot# 10780 Quant Date : 7/31/2024 5:13 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 277418



Manual Peak Response = 242516 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL6.D
Acq On : 30 Jul 2024 8:42 pm
Operator : SV107:cmm
Sample : IL5,32,,ABNL5 Lot# 10781
Misc : WG1954578,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 31 17:12:21 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:13:36 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.604	152	14527	4.000	ug/ml	0.00
Standard Area 1 = 14527			Recovery = 100.00%			
35) IS1_Naphthalene-d8	8.016	136	53319	4.000	ug/ml	0.00
Standard Area 1 = 53319			Recovery = 100.00%			
63) IS1_Acenaphthene-d10	9.781	164	30073	4.000	ug/ml	0.00
Standard Area 1 = 30073			Recovery = 100.00%			
88) IS1_Phenanthrene-d10	11.222	188	55264	4.000	ug/ml	0.00
Standard Area 1 = 55264			Recovery = 100.00%			
104) IS1_Chrysene-d12	13.892	240	49010	4.000	ug/ml	0.00
Standard Area 1 = 49010			Recovery = 100.00%			
113) IS1_Perylene-d12	15.380	264	53266	4.000	ug/ml	0.00
Standard Area 1 = 53266			Recovery = 100.00%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.793	112	19682	5.226	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 261.30%#			
7) Phenol-d6	6.234	99	24110	4.698	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 234.90%#			
19) Nitrobenzene-d5	7.251	82	22520	4.534	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 453.40%#			
46) 2-Fluorobiphenyl	9.134	172	51093	4.259	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 425.90%#			
79) 2,4,6-Tribromophenol	10.551	330	6393	4.780	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 239.00%#			
96) 4-Terphenyl-d14	12.816	244	57009	4.363	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 436.30%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.346	74	12944	5.284	ug/ml#	65
3) Pyridine	2.387	79	21639	5.484	ug/ml#	59
5) Aniline	6.204	93	29807	4.650	ug/ml	100
6) 2-Chlorophenol	6.351	128	22399	4.765	ug/ml	92
8) Phenol	6.245	94	26369	4.635	ug/ml	95
9) Bis(2-chloroethyl)ether	6.328	93	20258	4.472	ug/ml#	80
10) 1,3-Dichlorobenzene	6.534	146	26728	4.636	ug/ml	98
11) 1,4-Dichlorobenzene	6.628	146	26826	4.618	ug/ml	98
12) 1,2-Dichlorobenzene	6.804	146	25904	4.567	ug/ml	97
13) Benzyl alcohol	6.804	79	16675	4.616	ug/ml	96
14) Bis(2-chloroisopropyl)...	6.975	45	26420	4.498	ug/ml#	43

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL6.D
Acq On : 30 Jul 2024 8:42 pm
Operator : SV107:cmm
Sample : IL5,32,,ABNL5 Lot# 10781
Misc : WG1954578,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 31 17:12:21 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:13:36 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.969	108	18156	4.438	ug/ml	99
16) Hexachloroethane	7.187	117	9856	4.822	ug/ml#	64
17) n-Nitrosodi-n-propylamine	7.122	70	14068	4.494	ug/ml	95
18) 3-Methylphenol/4-Methy...	7.151	108	19796	4.499	ug/ml	97
20) Nitrobenzene	7.275	77	21863	4.589	ug/ml	95
21) Isophorone	7.545	82	38507	4.524	ug/ml	99
22) 2-Nitrophenol	7.628	139	10787	4.456	ug/ml	91
23) 2,4-Dimethylphenol	7.716	107	12058	3.166	ug/ml	99
24) Bis(2-chloroethoxy)met...	7.810	93	24942	4.333	ug/ml	98
25) 2,4-Dichlorophenol	7.887	162	19484	4.721	ug/ml#	93
26) 1,2,4-Trichlorobenzene	7.969	180	22602	4.430	ug/ml	97
36) Naphthalene	8.040	128	66286	4.393	ug/ml	99
37) Benzoic Acid	7.804	105	11249	3.991	ug/ml	94
38) 4-Chloroaniline	8.116	65	8095	4.805	ug/ml	85
39) Hexachlorobutadiene	8.204	225	13691	4.589	ug/ml	98
40) p-Chloro-m-cresol	8.634	107	17185	4.558	ug/ml	98
41) 2-Methylnaphthalene	8.751	142	43741	4.451	ug/ml	97
42) 1-Methylnaphthalene	8.851	115	14499	4.566	ug/ml	98
43) Hexachlorocyclopentadiene	8.928	237	13214	4.684	ug/ml	99
44) 2,4,6-Trichlorophenol	9.045	196	14603	4.680	ug/ml	99
45) 2,4,5-Trichlorophenol	9.075	196	15779	4.760	ug/ml	99
47) 2-Chloronaphthalene	9.234	162	43334	4.261	ug/ml	96
48) 2-Nitroaniline	9.345	138	12077	4.439	ug/ml	87
49) 1,4-Dinitrobenzene	9.475	168	5954	4.066	ug/ml	77
50) 1,3-Dinitrobenzene	9.551	168	7006	4.074	ug/ml#	1
51) Dimethyl phthalate	9.545	163	49129	4.273	ug/ml#	98
52) Acenaphthylene	9.639	152	65600	4.346	ug/ml	98
53) 2,6-Dinitrotoluene	9.586	165	10214	4.539	ug/ml#	81
54) 1,2-Dinitrobenzene	9.634	168	4527	4.428	ug/ml#	1
64) 3-Nitroaniline	9.745	138	11706	4.865	ug/ml#	88
65) Acenaphthene	9.810	154	38403	4.488	ug/ml	89
66) 2,4-Dinitrophenol	9.851	184	5034	4.090	ug/ml#	87
67) Dibenzofuran	9.981	168	61672	4.366	ug/ml	97
68) 2,4-Dinitrotoluene	9.981	165	14025	4.568	ug/ml	93
69) 4-Nitrophenol	9.928	65	9002	4.732	ug/ml#	86
70) 2,3,5,6-Tetrachlorophenol	10.069	232	12721	4.961	ug/ml	99
71) 2,3,4,6-Tetrachlorophenol	10.110	232	12524	5.121	ug/ml	98
72) Diethyl phthalate	10.239	149	43388	4.349	ug/ml	97
73) Fluorene	10.316	166	47230	4.474	ug/ml	94
74) 4-Chlorophenyl phenyl ...	10.333	204	23647	4.412	ug/ml	89

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL6.D
Acq On : 30 Jul 2024 8:42 pm
Operator : SV107:cmm
Sample : IL5,32,,ABNL5 Lot# 10781
Misc : WG1954578,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 31 17:12:21 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:13:36 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	10.339	138	11313	4.700	ug/ml	81
76)	4,6-Dinitro-o-cresol	10.375	198	6951	4.537	ug/ml#	63
77)	NDPA/DPA	10.445	169	39750	4.535	ug/ml	96
78)	Azobenzene	10.481	77	42431	4.602	ug/ml	94
80)	4-Bromophenyl phenyl e...	10.804	248	12807	4.426	ug/ml#	86
81)	Hexachlorobenzene	10.857	284	14330	4.488	ug/ml#	88
82)	Pentachlorophenol	11.051	266	8782	4.284	ug/ml	98
89)	Phenanthrene	11.245	178	70286	4.419	ug/ml	99
90)	Anthracene	11.298	178	68473	4.551	ug/ml	99
91)	Carbazole	11.463	167	63569	4.631	ug/ml	97
92)	Di-n-butylphthalate	11.845	149	65310	4.321	ug/ml	98
93)	Fluoranthene	12.410	202	78580	4.510	ug/ml#	92
94)	Benzidine	12.557	184	36820	3.879	ug/ml#	94
95)	Pyrene	12.627	202	84928	4.481	ug/ml	98
97)	Butyl benzyl phthalate	13.345	149	26504	4.102	ug/ml	89
105)	Benzo(a)anthracene	13.880	228	81773	4.592	ug/ml	99
106)	3,3'-Dichlorobenzidine	13.874	252	25859	4.829	ug/ml#	97
107)	Chrysene	13.916	228	78766	4.581	ug/ml	98
108)	Bis(2-ethylhexyl)phtha...	13.986	149	40883	4.970	ug/ml#	94
109)	Di-n-octylphthalate	14.674	149	61747	4.696	ug/ml#	71
110)	Benzo(b)fluoranthene	15.004	252	73405	4.787	ug/ml#	94
111)	Benzo(k)fluoranthene	15.033	252	78060	5.091	ug/ml#	93
112)	Benzo(a)pyrene	15.327	252	67951	5.038	ug/ml#	93
114)	Indeno(1,2,3-cd)pyrene	16.410	276	71162M6	4.867	ug/mL	
115)	Dibenzo(a,h)anthracene	16.433	278	69451	4.941	ug/ml#	91
116)	Benzo(ghi)perylene	16.686	276	68195	5.240	ug/ml#	88

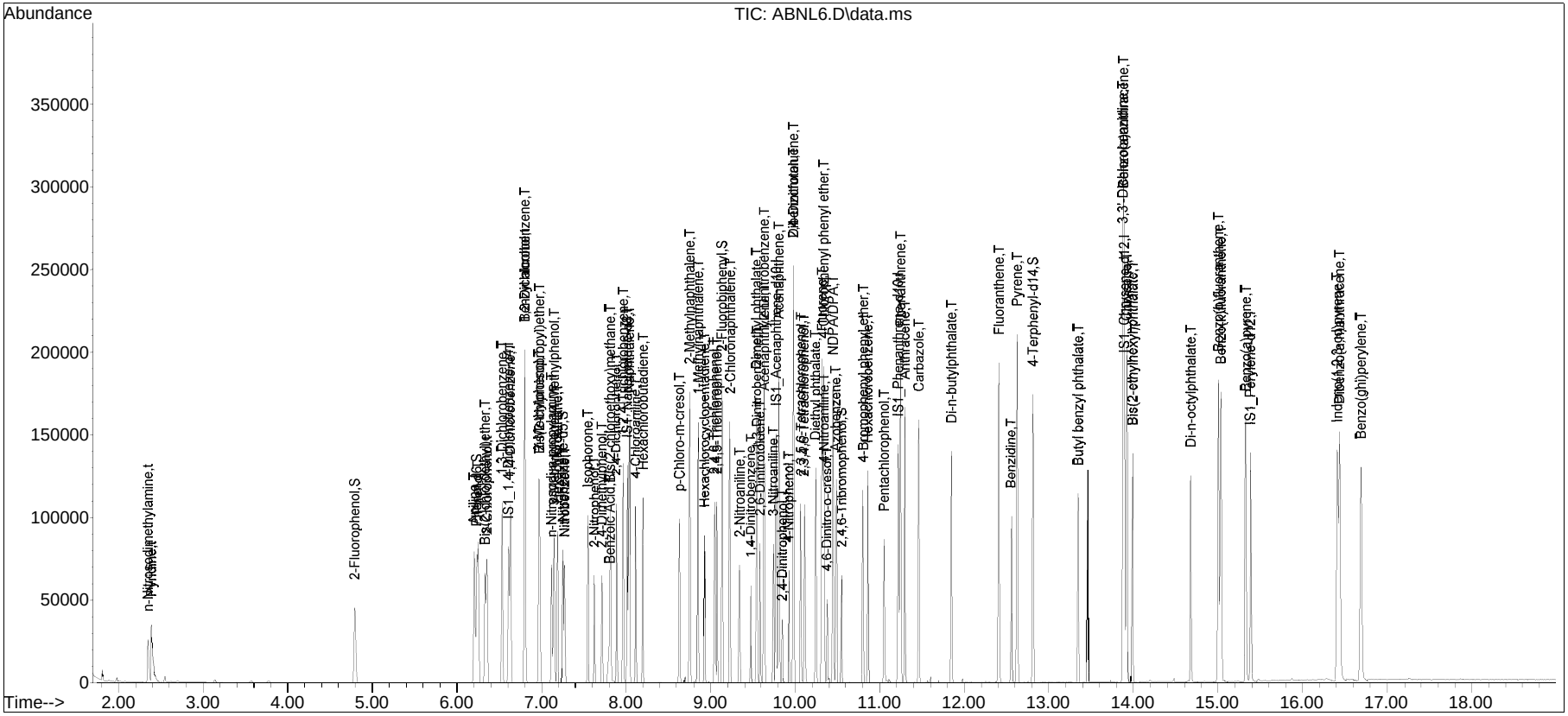
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL6.D
Acq On : 30 Jul 2024 8:42 pm
Operator : SV107:cmm
Sample : IL5,32,,ABNL5 Lot# 10781
Misc : WG1954578,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 31 17:12:21 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:13:36 2024
Response via : Initial Calibration

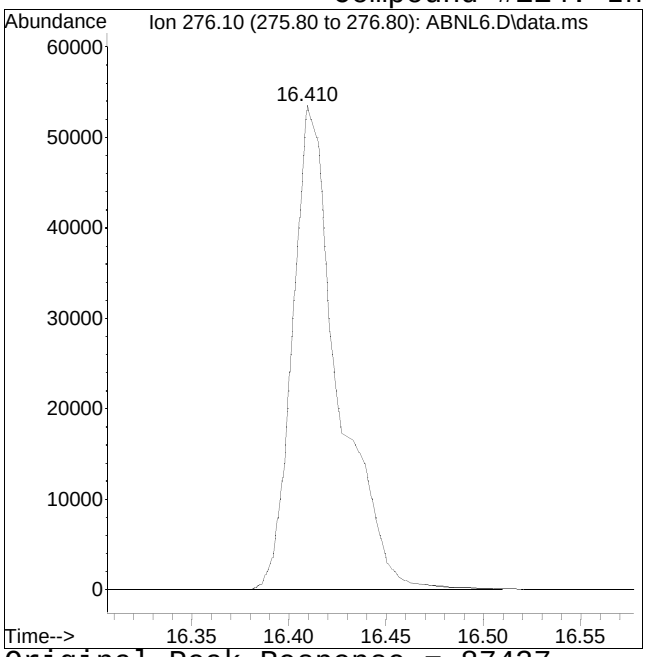
Sub List : ABNical - ABN ical sublistal\ABNL6.D•



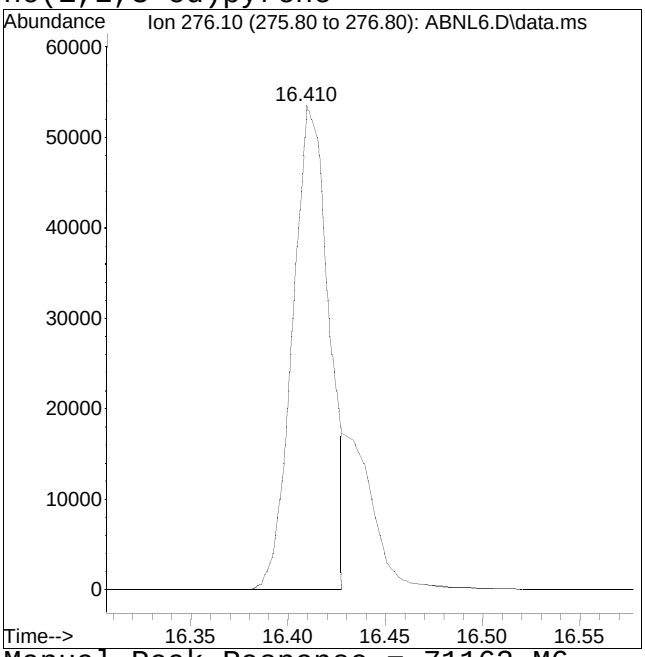
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL6.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 8:42 pm Instrument : SV107
Sample : IL5,32,,ABNL5 Lot# 10781 Quant Date : 7/31/2024 5:13 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 87437



Manual Peak Response = 71162 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL5.D
Acq On : 30 Jul 2024 9:08 pm
Operator : SV107:cmm
Sample : IL6,32,,ABNL2.5 Lot# 10782
Misc : WG1954578,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 31 17:12:13 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:13:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.610	152	15918	4.000	ug/ml	0.00
Standard Area 1 = 14527			Recovery = 109.58%			
35) IS1_Naphthalene-d8	8.016	136	60554	4.000	ug/ml	0.00
Standard Area 1 = 53319			Recovery = 113.57%			
63) IS1_Acenaphthene-d10	9.781	164	37254	4.000	ug/ml	0.00
Standard Area 1 = 30073			Recovery = 123.88%			
88) IS1_Phenanthrene-d10	11.222	188	74849	4.000	ug/ml	0.00
Standard Area 1 = 55264			Recovery = 135.44%			
104) IS1_Chrysene-d12	13.892	240	70836	4.000	ug/ml	0.00
Standard Area 1 = 49010			Recovery = 144.53%			
113) IS1_Perylene-d12	15.380	264	77064	4.000	ug/ml	0.00
Standard Area 1 = 53266			Recovery = 144.68%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.798	112	10664	2.584	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 129.20%#			
7) Phenol-d6	6.234	99	13642	2.426	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 121.30%#			
19) Nitrobenzene-d5	7.251	82	12707	2.335	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 233.50%#			
46) 2-Fluorobiphenyl	9.134	172	30909	2.269	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 226.90%#			
79) 2,4,6-Tribromophenol	10.551	330	4086	2.466	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 123.30%#			
96) 4-Terphenyl-d14	12.816	244	41523	2.346	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 234.60%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.357	74	7051	2.627	ug/ml#	67
3) Pyridine	2.399	79	10706	2.476	ug/ml#	63
5) Aniline	6.210	93	16980	2.417	ug/ml	99
6) 2-Chlorophenol	6.351	128	12588	2.444	ug/ml	92
8) Phenol	6.245	94	15043	2.413	ug/ml	95
9) Bis(2-chloroethyl)ether	6.328	93	11531	2.323	ug/ml#	79
10) 1,3-Dichlorobenzene	6.534	146	14921	2.362	ug/ml	97
11) 1,4-Dichlorobenzene	6.628	146	14926	2.345	ug/ml	97
12) 1,2-Dichlorobenzene	6.804	146	14301	2.301	ug/ml	96
13) Benzyl alcohol	6.804	79	9110	2.301	ug/ml	96
14) Bis(2-chloroisopropyl)...	6.981	45	15073	2.342	ug/ml#	42

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL5.D
Acq On : 30 Jul 2024 9:08 pm
Operator : SV107:cmm
Sample : IL6,32,,ABNL2.5 Lot# 10782
Misc : WG1954578,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 31 17:12:13 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:13:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.969	108	10622	2.370	ug/ml	100
16) Hexachloroethane	7.187	117	5492	2.452	ug/ml#	67
17) n-Nitrosodi-n-propylamine	7.122	70	8075	2.354	ug/ml	94
18) 3-Methylphenol/4-Methy...	7.151	108	11728	2.432	ug/ml	99
20) Nitrobenzene	7.275	77	12433	2.381	ug/ml	97
21) Isophorone	7.545	82	22615	2.425	ug/ml	98
22) 2-Nitrophenol	7.628	139	5931	2.236	ug/ml	91
23) 2,4-Dimethylphenol	7.716	107	10809	2.590	ug/ml	99
24) Bis(2-chloroethoxy)met...	7.810	93	15048	2.386	ug/ml	98
25) 2,4-Dichlorophenol	7.887	162	11138	2.463	ug/ml	93
26) 1,2,4-Trichlorobenzene	7.969	180	12966	2.319	ug/ml	96
36) Naphthalene	8.039	128	38528	2.248	ug/ml	99
37) Benzoic Acid	7.792	105	5323	1.663	ug/ml	92
38) 4-Chloroaniline	8.116	65	4598	2.403	ug/ml	77
39) Hexachlorobutadiene	8.198	225	8074	2.383	ug/ml	96
40) p-Chloro-m-cresol	8.634	107	10386	2.425	ug/ml	99
41) 2-Methylnaphthalene	8.751	142	25982	2.328	ug/ml	97
42) 1-Methylnaphthalene	8.851	115	8466	2.348	ug/ml	98
43) Hexachlorocyclopentadiene	8.928	237	7524	2.348	ug/ml	99
44) 2,4,6-Trichlorophenol	9.045	196	8825	2.491	ug/ml	99
45) 2,4,5-Trichlorophenol	9.075	196	9235	2.453	ug/ml	99
47) 2-Chloronaphthalene	9.233	162	26914	2.330	ug/ml	96
48) 2-Nitroaniline	9.345	138	7310	2.366	ug/ml	85
49) 1,4-Dinitrobenzene	9.475	168	3655	2.198	ug/ml	79
50) 1,3-Dinitrobenzene	9.551	168	4217	2.159	ug/ml#	1
51) Dimethyl phthalate	9.545	163	31627	2.422	ug/ml#	98
52) Acenaphthylene	9.633	152	40155	2.342	ug/ml	99
53) 2,6-Dinitrotoluene	9.586	165	6191	2.422	ug/ml#	84
54) 1,2-Dinitrobenzene	9.633	168	2827	2.435	ug/ml#	1
64) 3-Nitroaniline	9.745	138	7277	2.442	ug/ml#	89
65) Acenaphthene	9.810	154	23765	2.242	ug/ml	90
66) 2,4-Dinitrophenol	9.845	184	2879	1.888	ug/ml	88
67) Dibenzofuran	9.981	168	39281	2.245	ug/ml	97
68) 2,4-Dinitrotoluene	9.981	165	9193	2.417	ug/ml	94
69) 4-Nitrophenol	9.928	65	5701	2.419	ug/ml#	87
70) 2,3,5,6-Tetrachlorophenol	10.069	232	8096	2.549	ug/ml	97
71) 2,3,4,6-Tetrachlorophenol	10.110	232	7910	2.611	ug/ml	98
72) Diethyl phthalate	10.239	149	29104	2.355	ug/ml	97
73) Fluorene	10.316	166	30148	2.305	ug/ml	95
74) 4-Chlorophenyl phenyl ...	10.333	204	15150	2.282	ug/ml	90

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL5.D
Acq On : 30 Jul 2024 9:08 pm
Operator : SV107:cmm
Sample : IL6,32,,ABNL2.5 Lot# 10782
Misc : WG1954578,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 31 17:12:13 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:13:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	10.339	138	7398	2.481	ug/ml	83
76)	4,6-Dinitro-o-cresol	10.375	198	4332	2.283	ug/ml#	63
77)	NDPA/DPA	10.445	169	25902	2.386	ug/ml	96
78)	Azobenzene	10.480	77	28035	2.454	ug/ml	96
80)	4-Bromophenyl phenyl e...	10.804	248	8648	2.412	ug/ml#	86
81)	Hexachlorobenzene	10.857	284	9181	2.321	ug/ml	88
82)	Pentachlorophenol	11.051	266	5579	2.197	ug/ml	98
89)	Phenanthrene	11.245	178	47519	2.206	ug/ml	99
90)	Anthracene	11.298	178	46364	2.275	ug/ml	98
91)	Carbazole	11.463	167	43498	2.340	ug/ml	98
92)	Di-n-butylphthalate	11.845	149	45811	2.238	ug/ml	98
93)	Fluoranthene	12.410	202	55232	2.341	ug/ml#	91
94)	Benzidine	12.557	184	28918	2.249	ug/ml#	94
95)	Pyrene	12.627	202	59407	2.314	ug/ml	99
97)	Butyl benzyl phthalate	13.345	149	18753	2.143	ug/ml	88
105)	Benzo(a)anthracene	13.880	228	58938	2.290	ug/ml	98
106)	3,3'-Dichlorobenzidine	13.874	252	18505	2.391	ug/ml#	97
107)	Chrysene	13.916	228	57321	2.306	ug/ml	98
108)	Bis(2-ethylhexyl)phtha...	13.986	149	29313	2.465	ug/ml#	95
109)	Di-n-octylphthalate	14.674	149	44222	2.327	ug/ml#	71
110)	Benzo(b)fluoranthene	15.004	252	53014	2.392	ug/ml#	94
111)	Benzo(k)fluoranthene	15.033	252	55882	2.522	ug/ml#	94
112)	Benzo(a)pyrene	15.327	252	48540	2.490	ug/ml#	93
114)	Indeno(1,2,3-cd)pyrene	16.410	276	49116M6	2.322	ug/mL	
115)	Dibenzo(a,h)anthracene	16.433	278	48758	2.397	ug/ml#	91
116)	Benzo(ghi)perylene	16.686	276	47986	2.548	ug/ml#	88

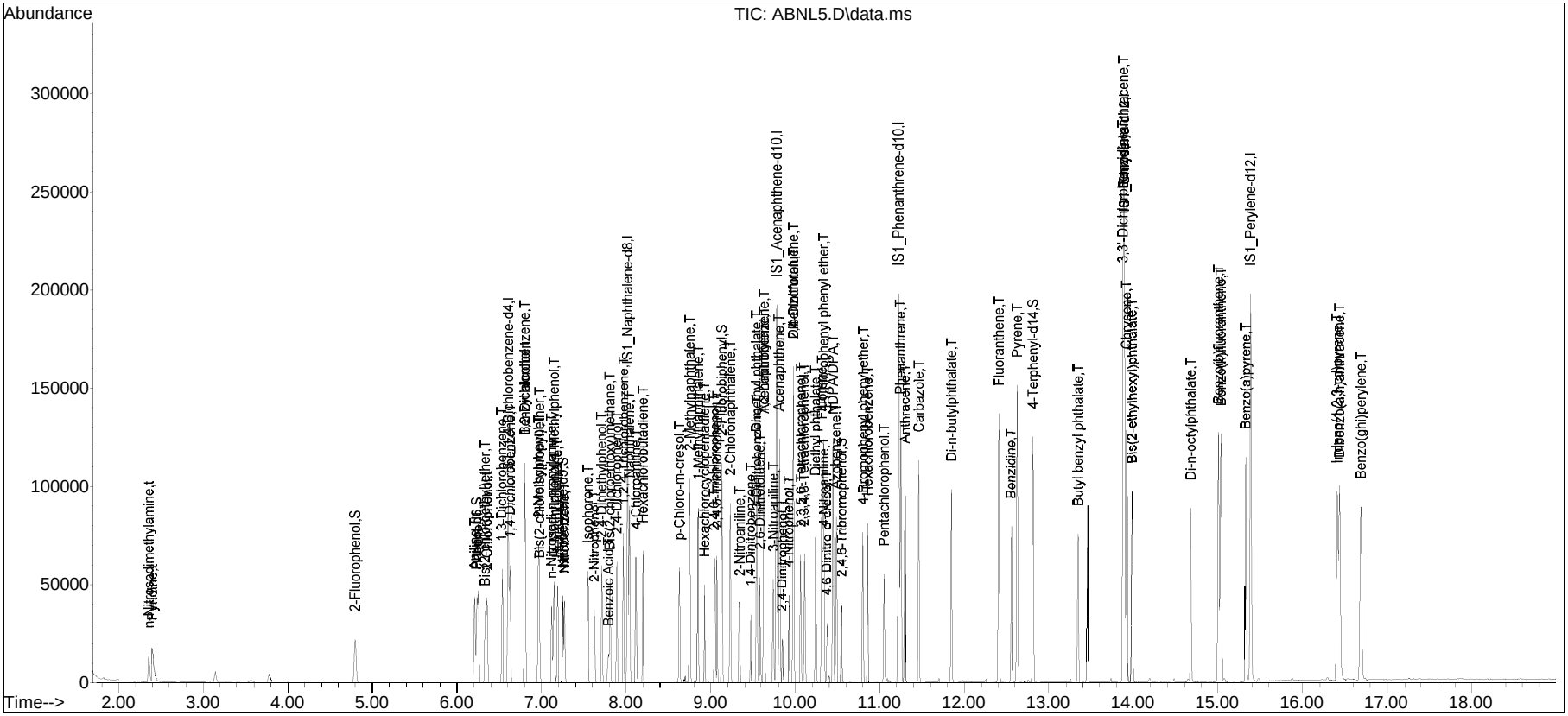
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL5.D
Acq On : 30 Jul 2024 9:08 pm
Operator : SV107:cmm
Sample : IL6,32,,ABNL2.5 Lot# 10782
Misc : WG1954578,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 31 17:12:13 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:13:28 2024
Response via : Initial Calibration

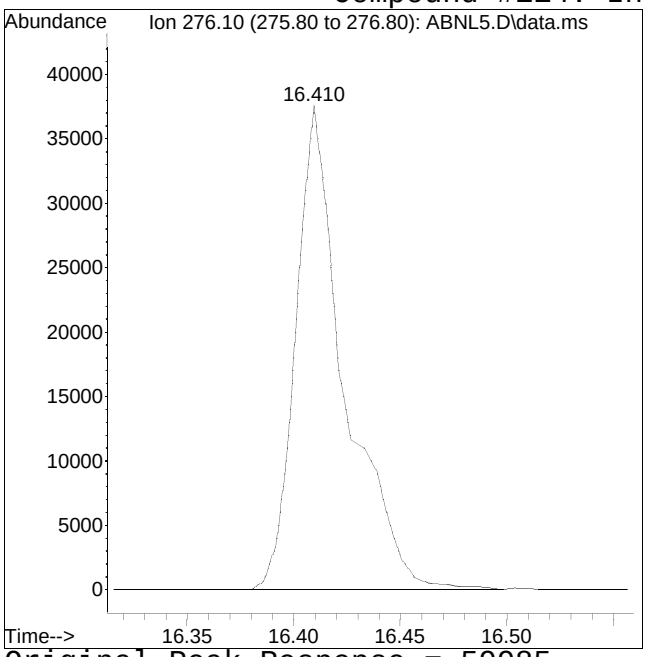
Sub List : ABNical - ABN ical sublistal\ABNL6.D•



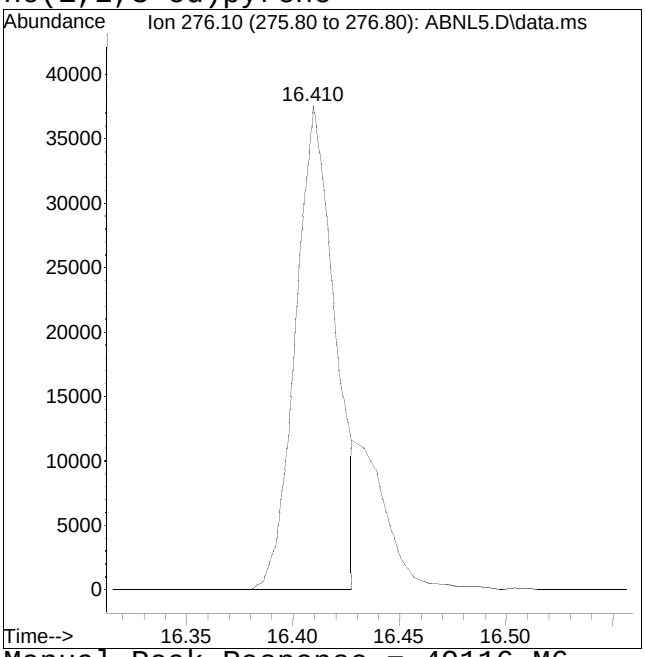
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL5.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 9:08 pm Instrument : SV107
Sample : IL6,32,,ABNL2.5 Lot# 10782 Quant Date : 7/31/2024 5:13 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 59985



Manual Peak Response = 49116 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL4.D
Acq On : 30 Jul 2024 9:33 pm
Operator : SV107:cmm
Sample : IL7,32,,ABNL1 Lot# 10783
Misc : WG1954578,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 31 17:12:05 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:13:20 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.610	152	16937	4.000	ug/ml	0.00
Standard Area 1 = 14527			Recovery =	116.59%		
35) IS1_Naphthalene-d8	8.016	136	62711	4.000	ug/ml	0.00
Standard Area 1 = 53319			Recovery =	117.61%		
63) IS1_Acenaphthene-d10	9.780	164	36784	4.000	ug/ml	0.00
Standard Area 1 = 30073			Recovery =	122.32%		
88) IS1_Phenanthrene-d10	11.222	188	70986	4.000	ug/ml	0.00
Standard Area 1 = 55264			Recovery =	128.45%		
104) IS1_Chrysene-d12	13.892	240	65466	4.000	ug/ml	0.00
Standard Area 1 = 49010			Recovery =	133.58%		
113) IS1_Perylene-d12	15.386	264	68357	4.000	ug/ml	0.00
Standard Area 1 = 53266			Recovery =	128.33%		
System Monitoring Compounds						
4) 2-Fluorophenol	4.804	112	4331	0.986	ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery =	49.30%		
7) Phenol-d6	6.234	99	5869	0.981	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	49.05%		
19) Nitrobenzene-d5	7.251	82	5453	0.942	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	94.20%		
46) 2-Fluorobiphenyl	9.133	172	13347	0.946	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	94.60%		
79) 2,4,6-Tribromophenol	10.551	330	1458	0.891	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	44.55%		
96) 4-Terphenyl-d14	12.816	244	16158	0.963	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	96.30%		
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.369	74	2920	1.022	ug/ml#	65
3) Pyridine	2.416	79	4429	0.963	ug/ml#	56
5) Aniline	6.210	93	7250	0.970	ug/ml	98
6) 2-Chlorophenol	6.351	128	5205	0.950	ug/ml	91
8) Phenol	6.251	94	6378	0.962	ug/ml	95
9) Bis(2-chloroethyl)ether	6.334	93	5070	0.960	ug/ml#	81
10) 1,3-Dichlorobenzene	6.534	146	6463	0.962	ug/ml	96
11) 1,4-Dichlorobenzene	6.628	146	6617	0.977	ug/ml	98
12) 1,2-Dichlorobenzene	6.804	146	6271	0.948	ug/ml	96
13) Benzyl alcohol	6.804	79	3793	0.901	ug/ml	95
14) Bis(2-chloroisopropyl)...	6.981	45	6522	0.952	ug/ml#	42

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL4.D
Acq On : 30 Jul 2024 9:33 pm
Operator : SV107:cmm
Sample : IL7,32,,ABNL1 Lot# 10783
Misc : WG1954578,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 31 17:12:05 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:13:20 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.969	108	4544	0.953	ug/ml	99
16) Hexachloroethane	7.192	117	2287	0.960	ug/ml#	66
17) n-Nitrosodi-n-propylamine	7.128	70	3405	0.933	ug/ml#	83
18) 3-Methylphenol/4-Methy...	7.151	108	4898	0.955	ug/ml	97
20) Nitrobenzene	7.275	77	5287	0.952	ug/ml	99
21) Isophorone	7.551	82	9105	0.917	ug/ml	99
22) 2-Nitrophenol	7.628	139	2241	0.794	ug/ml	92
23) 2,4-Dimethylphenol	7.716	107	4733	1.066	ug/ml	96
24) Bis(2-chloroethoxy)met...	7.810	93	6364	0.948	ug/ml	98
25) 2,4-Dichlorophenol	7.886	162	4616	0.959	ug/ml	94
26) 1,2,4-Trichlorobenzene	7.969	180	5629	0.946	ug/ml	95
36) Naphthalene	8.039	128	17024	0.959	ug/ml	98
37) Benzoic Acid	7.781	105	1336	0.403	ug/ml	91
38) 4-Chloroaniline	8.116	65	1986	1.002	ug/ml	83
39) Hexachlorobutadiene	8.204	225	3331	0.949	ug/ml	98
40) p-Chloro-m-cresol	8.633	107	4258	0.960	ug/ml	98
41) 2-Methylnaphthalene	8.751	142	11011	0.953	ug/ml	95
42) 1-Methylnaphthalene	8.851	115	3546	0.950	ug/ml	93
43) Hexachlorocyclopentadiene	8.928	237	3194	0.963	ug/ml#	93
44) 2,4,6-Trichlorophenol	9.045	196	3553	0.968	ug/ml	98
45) 2,4,5-Trichlorophenol	9.075	196	3754	0.963	ug/ml	98
47) 2-Chloronaphthalene	9.233	162	11423	0.955	ug/ml	95
48) 2-Nitroaniline	9.345	138	2666	0.833	ug/ml	88
49) 1,4-Dinitrobenzene	9.475	168	1167	0.678	ug/ml	92
50) 1,3-Dinitrobenzene	9.551	168	1518	0.750	ug/ml#	1
51) Dimethyl phthalate	9.545	163	13053	0.965	ug/ml#	98
52) Acenaphthylene	9.633	152	16662	0.938	ug/ml	99
53) 2,6-Dinitrotoluene	9.586	165	2455	0.928	ug/ml#	84
54) 1,2-Dinitrobenzene	9.633	168	1066	0.886	ug/ml#	1
64) 3-Nitroaniline	9.745	138	2788	0.947	ug/ml#	87
65) Acenaphthene	9.810	154	10151	0.970	ug/ml	90
66) 2,4-Dinitrophenol	9.851	184	774	0.514	ug/ml#	25
67) Dibenzofuran	9.980	168	16575	0.959	ug/ml	97
68) 2,4-Dinitrotoluene	9.980	165	3225	0.859	ug/ml	95
69) 4-Nitrophenol	9.927	65	2040	0.877	ug/ml#	86
70) 2,3,5,6-Tetrachlorophenol	10.069	232	3063	0.977	ug/ml	98
71) 2,3,4,6-Tetrachlorophenol	10.110	232	2978	0.995	ug/ml	96
72) Diethyl phthalate	10.239	149	11516	0.944	ug/ml	97
73) Fluorene	10.316	166	12218	0.946	ug/ml	92
74) 4-Chlorophenyl phenyl ...	10.333	204	6110	0.932	ug/ml	90

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL4.D
Acq On : 30 Jul 2024 9:33 pm
Operator : SV107:cmm
Sample : IL7,32,,ABNL1 Lot# 10783
Misc : WG1954578,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 31 17:12:05 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:13:20 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	10.333	138	2762	0.938	ug/ml	86
76)	4,6-Dinitro-o-cresol	10.374	198	1252	0.668	ug/ml#	65
77)	NDPA/DPA	10.445	169	10361	0.967	ug/ml	95
78)	Azobenzene	10.480	77	10835	0.961	ug/ml	95
80)	4-Bromophenyl phenyl e...	10.804	248	3407	0.963	ug/ml#	86
81)	Hexachlorobenzene	10.857	284	3861	0.989	ug/ml#	89
82)	Pentachlorophenol	11.051	266	1768	0.705	ug/ml	98
89)	Phenanthrene	11.245	178	19323	0.946	ug/ml	99
90)	Anthracene	11.292	178	18445	0.954	ug/ml	99
91)	Carbazole	11.457	167	17028	0.966	ug/ml	98
92)	Di-n-butylphthalate	11.845	149	16537	0.852	ug/ml	98
93)	Fluoranthene	12.410	202	20524	0.917	ug/ml#	92
94)	Benzidine	12.557	184	9498	0.779	ug/ml#	94
95)	Pyrene	12.627	202	22799	0.937	ug/ml	99
97)	Butyl benzyl phthalate	13.345	149	6074	0.732	ug/ml	90
105)	Benzo(a)anthracene	13.880	228	22210	0.934	ug/ml	99
106)	3,3'-Dichlorobenzidine	13.874	252	6115	0.855	ug/ml#	98
107)	Chrysene	13.915	228	22837	0.994	ug/ml	99
108)	Bis(2-ethylhexyl)phtha...	13.986	149	9225	0.840	ug/ml#	95
109)	Di-n-octylphthalate	14.680	149	12872	0.733	ug/ml#	71
110)	Benzo(b)fluoranthene	15.004	252	19841	0.969	ug/ml#	93
111)	Benzo(k)fluoranthene	15.033	252	19121	0.934	ug/ml#	95
112)	Benzo(a)pyrene	15.327	252	17227	0.956	ug/ml#	93
114)	Indeno(1,2,3-cd)pyrene	16.409	276	16602M6	0.885	ug/mL	
115)	Dibenzo(a,h)anthracene	16.439	278	17318	0.960	ug/ml#	92
116)	Benzo(ghi)perylene	16.680	276	16801	1.006	ug/ml#	88

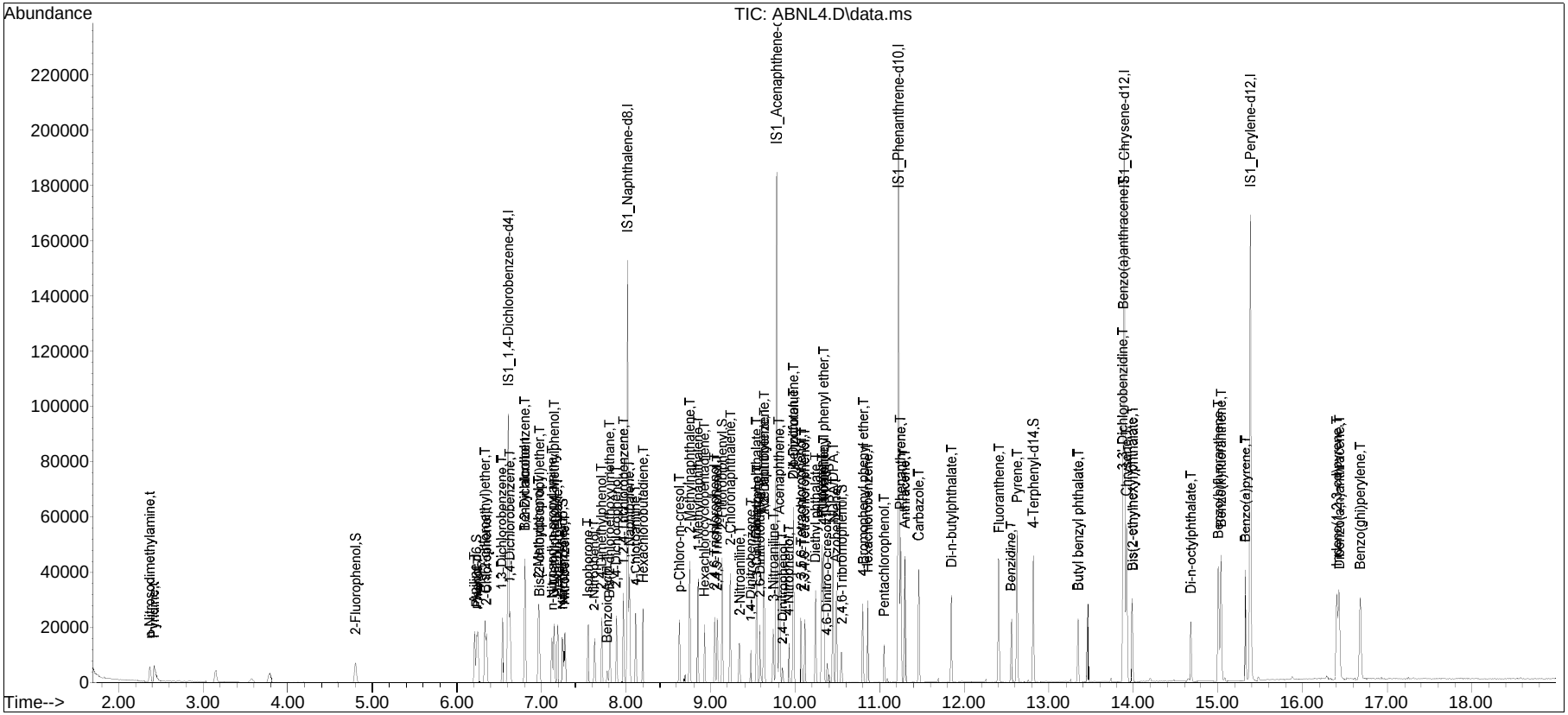
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL4.D
Acq On : 30 Jul 2024 9:33 pm
Operator : SV107:cmm
Sample : IL7,32,,ABNL1 Lot# 10783
Misc : WG1954578,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 31 17:12:05 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:13:20 2024
Response via : Initial Calibration

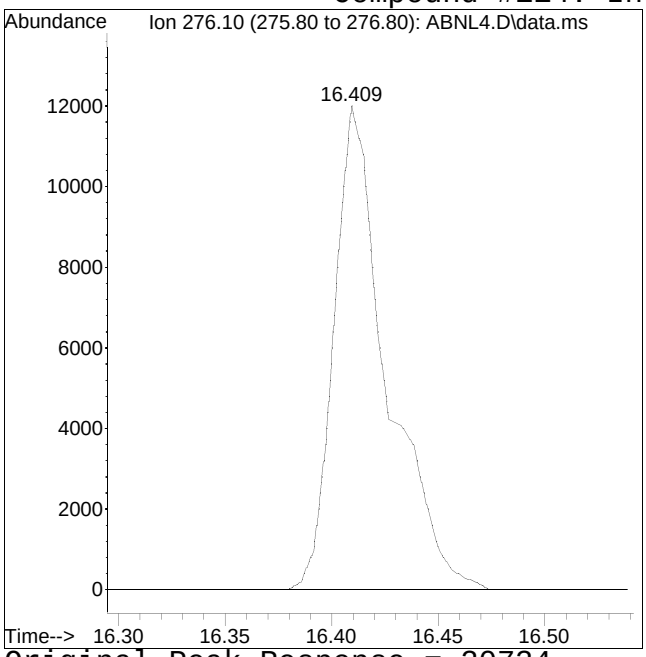
Sub List : ABNical - ABN ical sublistal\ABNL6.D•



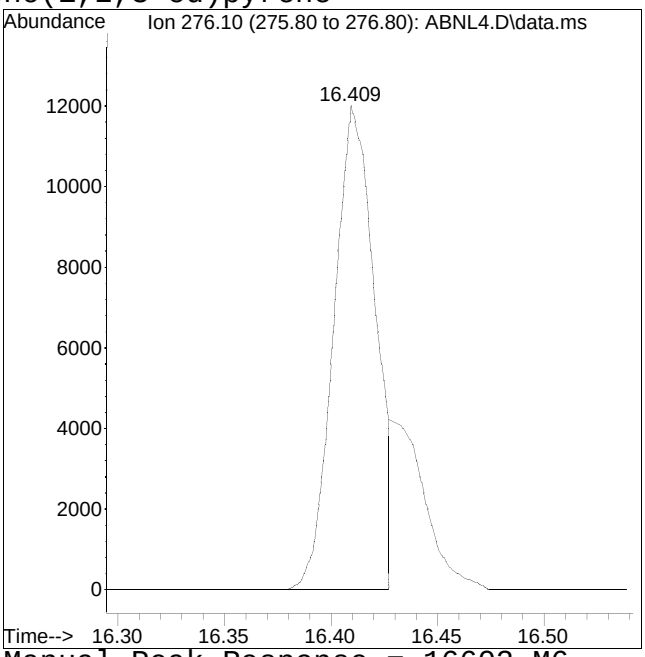
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL4.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 9:33 pm Instrument : SV107
Sample : IL7,32,,ABNL1 Lot# 10783 Quant Date : 7/31/2024 5:13 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 20734



Manual Peak Response = 16602 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL3.D
Acq On : 30 Jul 2024 9:59 pm
Operator : SV107:cmm
Sample : IL8,32,,ABNL0.5 Lot# 10784
Misc : WG1954578,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 31 17:11:57 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:13:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.610	152	16192	4.000	ug/ml	0.00
Standard Area 1 = 14527			Recovery =	111.46%		
35) IS1_Naphthalene-d8	8.016	136	61728	4.000	ug/ml	0.00
Standard Area 1 = 53319			Recovery =	115.77%		
63) IS1_Acenaphthene-d10	9.780	164	36055	4.000	ug/ml	0.00
Standard Area 1 = 30073			Recovery =	119.89%		
88) IS1_Phenanthrene-d10	11.222	188	72877	4.000	ug/ml	0.00
Standard Area 1 = 55264			Recovery =	131.87%		
104) IS1_Chrysene-d12	13.886	240	65929	4.000	ug/ml	0.00
Standard Area 1 = 49010			Recovery =	134.52%		
113) IS1_Perylene-d12	15.380	264	71076	4.000	ug/ml	0.00
Standard Area 1 = 53266			Recovery =	133.44%		
System Monitoring Compounds						
4) 2-Fluorophenol	4.798	112	2183	0.520	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	26.00%		
7) Phenol-d6	6.234	99	2920	0.511	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	25.55%		
19) Nitrobenzene-d5	7.251	82	2720	0.491	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	49.10%		
46) 2-Fluorobiphenyl	9.133	172	6822	0.491	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	49.10%		
79) 2,4,6-Tribromophenol	10.551	330	769	0.480	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	24.00%		
96) 4-Terphenyl-d14	12.816	244	8625	0.501	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	50.10%		
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.363	74	1553	0.569	ug/ml#	61
3) Pyridine	2.422	79	2212	0.503	ug/ml#	54
5) Aniline	6.210	93	3539	0.495	ug/ml	99
6) 2-Chlorophenol	6.351	128	2660	0.508	ug/ml#	89
8) Phenol	6.245	94	3243	0.511	ug/ml	95
9) Bis(2-chloroethyl)ether	6.334	93	2623	0.519	ug/ml#	82
10) 1,3-Dichlorobenzene	6.534	146	3232	0.503	ug/ml	97
11) 1,4-Dichlorobenzene	6.628	146	3267	0.505	ug/ml	97
12) 1,2-Dichlorobenzene	6.804	146	3314	0.524	ug/ml	96
13) Benzyl alcohol	6.804	79	1992	0.495	ug/ml	97
14) Bis(2-chloroisopropyl)...	6.981	45	3346	0.511	ug/ml#	47

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL3.D
Acq On : 30 Jul 2024 9:59 pm
Operator : SV107:cmm
Sample : IL8,32,,ABNL0.5 Lot# 10784
Misc : WG1954578,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 31 17:11:57 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:13:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.969	108	2228	0.489	ug/ml	99
16) Hexachloroethane	7.192	117	1148	0.504	ug/ml#	60
17) n-Nitrosodi-n-propylamine	7.128	70	1674	0.480	ug/ml#	59
18) 3-Methylphenol/4-Methy...	7.151	108	2497	0.509	ug/ml#	95
20) Nitrobenzene	7.275	77	2666	0.502	ug/ml#	90
21) Isophorone	7.551	82	4561	0.481	ug/ml#	90
22) 2-Nitrophenol	7.628	139	959	0.355	ug/ml#	82
23) 2,4-Dimethylphenol	7.716	107	2182	0.514	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.810	93	3112	0.485	ug/ml#	90
25) 2,4-Dichlorophenol	7.886	162	2188	0.476	ug/ml	94
26) 1,2,4-Trichlorobenzene	7.969	180	2973	0.523	ug/ml	95
36) Naphthalene	8.039	128	8897	0.509	ug/ml	98
37) Benzoic Acid	7.781	105	202M2	0.062	ug/ml	
38) 4-Chloroaniline	8.116	65	929	0.476	ug/ml	74
39) Hexachlorobutadiene	8.198	225	1742	0.504	ug/ml	98
40) p-Chloro-m-cresol	8.633	107	2089	0.479	ug/ml	99
41) 2-Methylnaphthalene	8.751	142	5527	0.486	ug/ml	95
42) 1-Methylnaphthalene	8.851	115	1820	0.495	ug/ml	96
43) Hexachlorocyclopentadiene	8.928	237	1583	0.485	ug/ml#	95
44) 2,4,6-Trichlorophenol	9.045	196	1610	0.446	ug/ml	98
45) 2,4,5-Trichlorophenol	9.075	196	1782	0.464	ug/ml	96
47) 2-Chloronaphthalene	9.233	162	5749	0.488	ug/ml	97
48) 2-Nitroaniline	9.339	138	1198	0.380	ug/ml	95
49) 1,4-Dinitrobenzene	9.475	168	562	0.332	ug/ml	79
50) 1,3-Dinitrobenzene	9.551	168	662	0.332	ug/ml#	1
51) Dimethyl phthalate	9.545	163	6698	0.503	ug/ml#	95
52) Acenaphthylene	9.633	152	8258	0.473	ug/ml	98
53) 2,6-Dinitrotoluene	9.586	165	1060	0.407	ug/ml#	87
54) 1,2-Dinitrobenzene	9.633	168	460	0.389	ug/ml#	1
64) 3-Nitroaniline	9.745	138	1253	0.434	ug/ml#	83
65) Acenaphthene	9.810	154	5356	0.522	ug/ml	89
66) 2,4-Dinitrophenol	9.851	184	252M2	0.171	ug/ml	
67) Dibenzofuran	9.980	168	8540	0.504	ug/ml	97
68) 2,4-Dinitrotoluene	9.980	165	1518	0.412	ug/ml	93
69) 4-Nitrophenol	9.928	65	944	0.414	ug/ml#	92
70) 2,3,5,6-Tetrachlorophenol	10.069	232	1515	0.493	ug/ml	95
71) 2,3,4,6-Tetrachlorophenol	10.110	232	1390	0.474	ug/ml	96
72) Diethyl phthalate	10.239	149	6193	0.518	ug/ml	99
73) Fluorene	10.316	166	6539	0.517	ug/ml	95
74) 4-Chlorophenyl phenyl ...	10.333	204	3311	0.515	ug/ml	90

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL3.D
Acq On : 30 Jul 2024 9:59 pm
Operator : SV107:cmm
Sample : IL8,32,,ABNL0.5 Lot# 10784
Misc : WG1954578,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 31 17:11:57 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:13:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	10.333	138	1254	0.435	ug/ml#	88
76)	4,6-Dinitro-o-cresol	10.375	198	493	0.268	ug/ml#	1
77)	NDPA/DPA	10.445	169	5562	0.529	ug/ml	95
78)	Azobenzene	10.480	77	5860	0.530	ug/ml	96
80)	4-Bromophenyl phenyl e...	10.804	248	1738	0.501	ug/ml#	87
81)	Hexachlorobenzene	10.857	284	2004	0.523	ug/ml#	89
82)	Pentachlorophenol	11.051	266	732	0.298	ug/ml	98
89)	Phenanthrene	11.245	178	10587	0.505	ug/ml	99
90)	Anthracene	11.292	178	9564	0.482	ug/ml	98
91)	Carbazole	11.457	167	8873	0.490	ug/ml	99
92)	Di-n-butylphthalate	11.845	149	8340	0.418	ug/ml	99
93)	Fluoranthene	12.404	202	11140	0.485	ug/ml#	91
94)	Benzidine	12.557	184	4555	0.364	ug/ml#	85
95)	Pyrene	12.627	202	12338	0.494	ug/ml	100
97)	Butyl benzyl phthalate	13.339	149	2896	0.340	ug/ml	93
105)	Benzo(a)anthracene	13.880	228	11863	0.495	ug/ml	98
106)	3,3'-Dichlorobenzidine	13.874	252	2788	0.387	ug/ml	96
107)	Chrysene	13.915	228	12351	0.534	ug/ml	99
108)	Bis(2-ethylhexyl)phtha...	13.986	149	4401	0.398	ug/ml#	94
109)	Di-n-octylphthalate	14.674	149	6113	0.346	ug/ml#	71
110)	Benzo(b)fluoranthene	15.004	252	10318	0.500	ug/ml#	93
111)	Benzo(k)fluoranthene	15.033	252	10737	0.521	ug/ml#	93
112)	Benzo(a)pyrene	15.327	252	8947	0.493	ug/ml#	92
114)	Indeno(1,2,3-cd)pyrene	16.409	276	9105M6	0.467	ug/mL	
115)	Dibenzo(a,h)anthracene	16.433	278	9108	0.486	ug/ml#	90
116)	Benzo(ghi)perylene	16.680	276	8846	0.509	ug/ml#	87

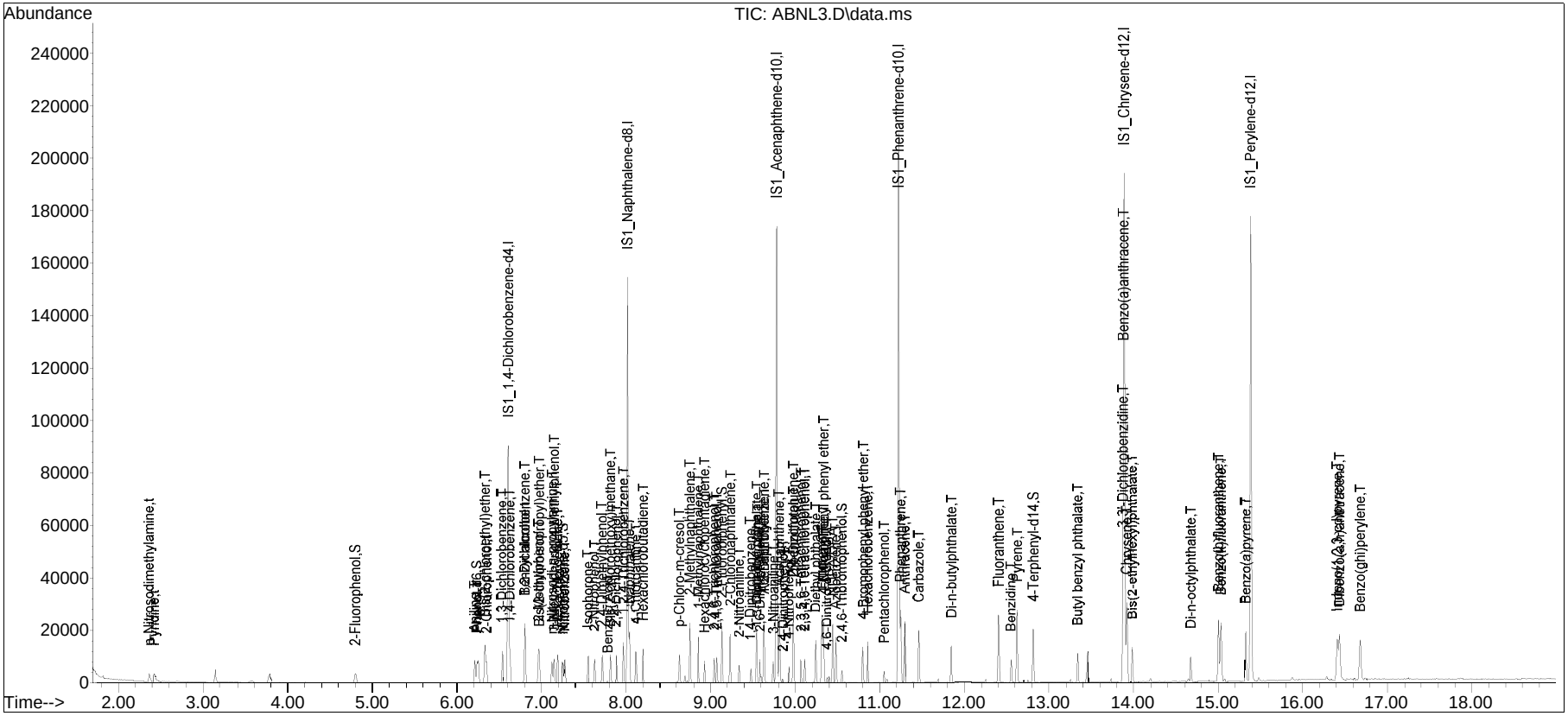
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL3.D
Acq On : 30 Jul 2024 9:59 pm
Operator : SV107:cmm
Sample : IL8,32,,ABNL0.5 Lot# 10784
Misc : WG1954578,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 31 17:11:57 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:13:12 2024
Response via : Initial Calibration

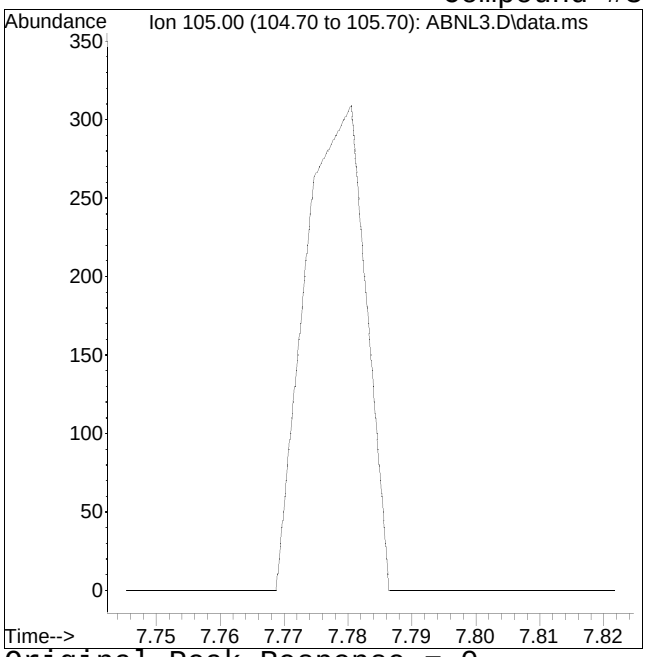
Sub List : ABNical - ABN ical sublistal\ABNL6.D•



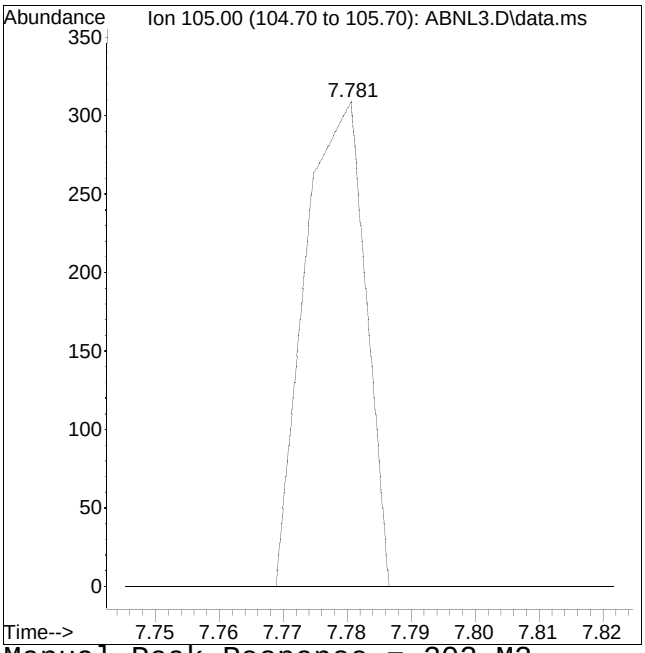
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL3.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 9:59 pm Instrument : SV107
Sample : IL8,32,,ABNL0.5 Lot# 10784 Quant Date : 7/31/2024 5:13 pm

Compound #37: Benzoic Acid



Original Peak Response = 0



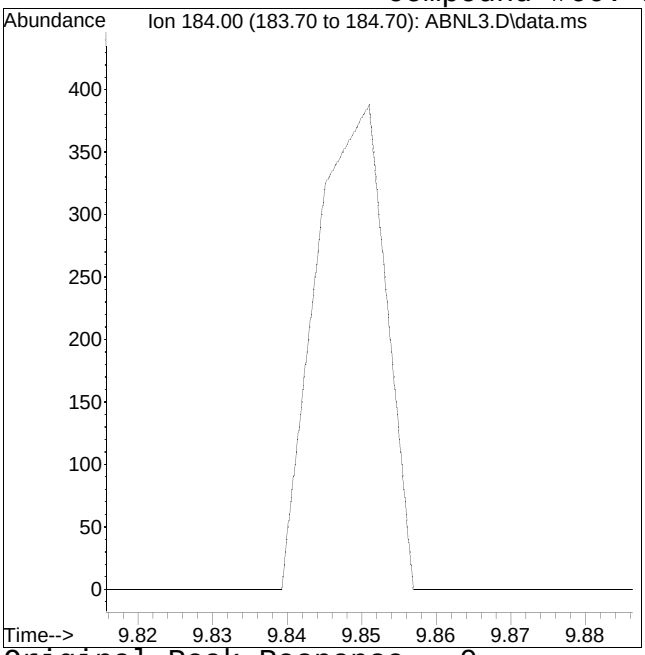
Manual Peak Response = 202 M2

M2 = Peak not found by automatic integration algorithm.

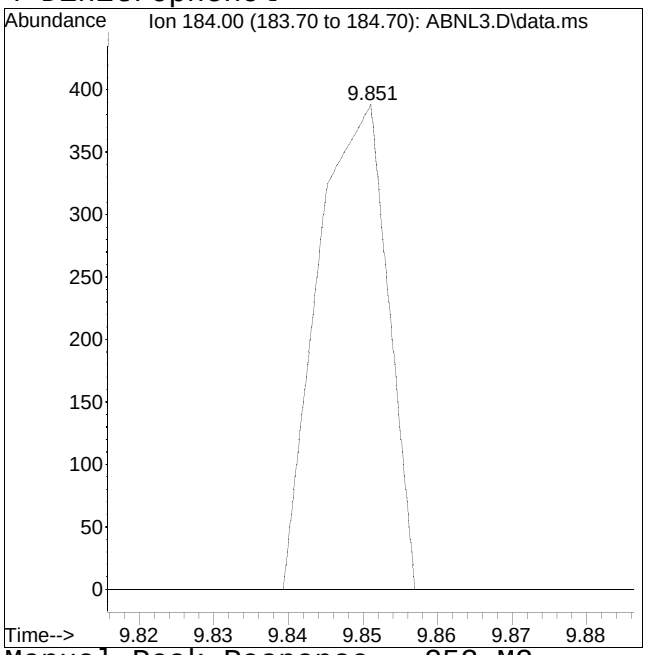
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL3.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 9:59 pm Instrument : SV107
Sample : IL8,32,,ABNL0.5 Lot# 10784 Quant Date : 7/31/2024 5:13 pm

Compound #66: 2,4-Dinitrophenol



Original Peak Response = 0



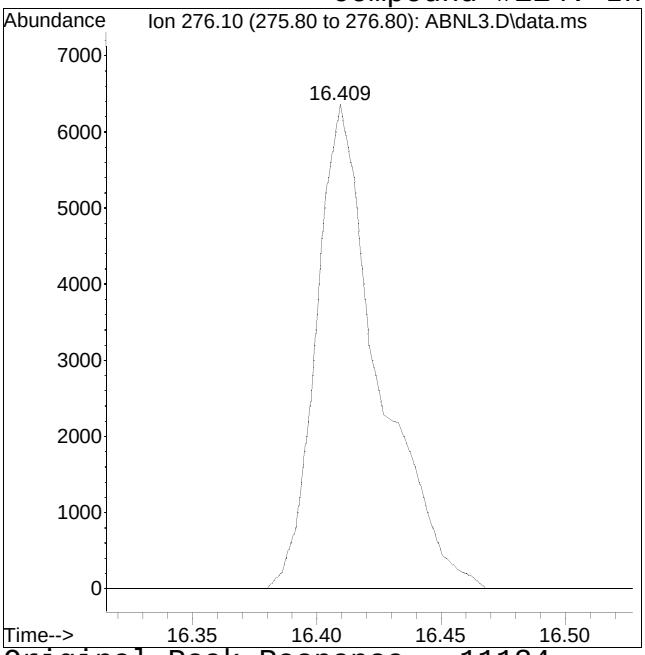
Manual Peak Response = 252 M2

M2 = Peak not found by automatic integration algorithm.

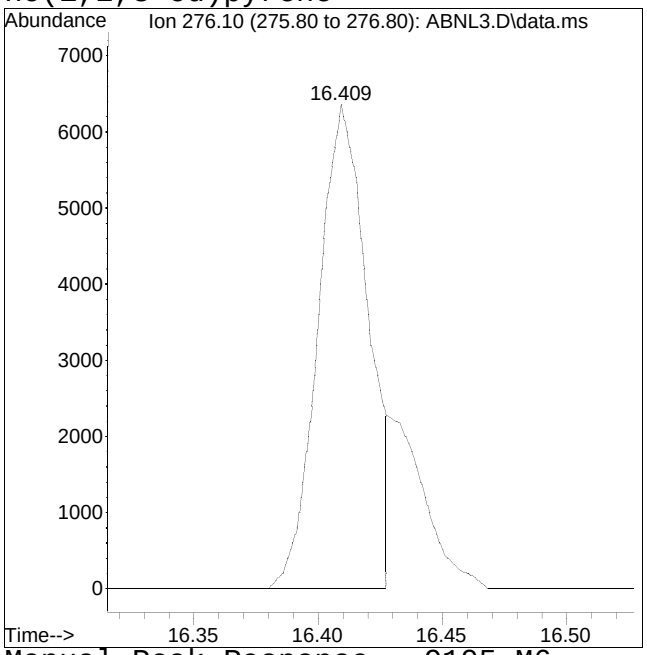
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL3.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 9:59 pm Instrument : SV107
Sample : IL8,32,,ABNL0.5 Lot# 10784 Quant Date : 7/31/2024 5:13 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 11134



Manual Peak Response = 9105 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL2.D
Acq On : 30 Jul 2024 10:24 pm
Operator : SV107:cmm
Sample : IL9,32,,ABNL0.2 Lot# 10785
Misc : WG1954578,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 31 17:11:49 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:13:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.610	152	13582	4.000	ug/ml	0.00
Standard Area 1 = 14527			Recovery = 93.49%			
35) IS1_Naphthalene-d8	8.016	136	49644	4.000	ug/ml	0.00
Standard Area 1 = 53319			Recovery = 93.11%			
63) IS1_Acenaphthene-d10	9.781	164	29133	4.000	ug/ml	0.00
Standard Area 1 = 30073			Recovery = 96.87%			
88) IS1_Phenanthrene-d10	11.222	188	57758	4.000	ug/ml	0.00
Standard Area 1 = 55264			Recovery = 104.51%			
104) IS1_Chrysene-d12	13.892	240	49637	4.000	ug/ml	0.00
Standard Area 1 = 49010			Recovery = 101.28%			
113) IS1_Perylene-d12	15.386	264	51624	4.000	ug/ml	0.00
Standard Area 1 = 53266			Recovery = 96.92%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.810	112	659	0.187	ug/ml	0.02
Spiked Amount 2.000	Range 15 - 110		Recovery = 9.35%#			
7) Phenol-d6	6.234	99	953	0.199	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 9.95%#			
19) Nitrobenzene-d5	7.257	82	950	0.205	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 20.50%#			
46) 2-Fluorobiphenyl	9.134	172	2632	0.236	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 23.60%#			
79) 2,4,6-Tribromophenol	10.551	330	163M2	0.126	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 6.30%#			
96) 4-Terphenyl-d14	12.816	244	2783	0.204	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 20.40%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.381	74	424	0.185	ug/ml#	1
3) Pyridine	2.452	79	629	0.171	ug/ml#	1
5) Aniline	6.210	93	1239	0.207	ug/ml#	83
6) 2-Chlorophenol	6.351	128	865	0.197	ug/ml#	30
8) Phenol	6.251	94	1121	0.211	ug/ml#	73
9) Bis(2-chloroethyl)ether	6.334	93	927	0.219	ug/ml#	68
10) 1,3-Dichlorobenzene	6.534	146	1249	0.232	ug/ml#	94
11) 1,4-Dichlorobenzene	6.628	146	1272	0.234	ug/ml	97
12) 1,2-Dichlorobenzene	6.804	146	1224	0.231	ug/ml	93
13) Benzyl alcohol	6.810	79	699	0.207	ug/ml#	58

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL2.D
Acq On : 30 Jul 2024 10:24 pm
Operator : SV107:cmm
Sample : IL9,32,,ABNL0.2 Lot# 10785
Misc : WG1954578,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 31 17:11:49 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:13:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
14) Bis(2-chloroisopropyl)...	6.981	45	1214	0.221	ug/ml#	46
15) 2-Methylphenol	6.969	108	745	0.195	ug/ml#	88
16) Hexachloroethane	7.192	117	446	0.233	ug/ml#	59
17) n-Nitrosodi-n-propylamine	7.128	70	588	0.201	ug/ml#	59
18) 3-Methylphenol/4-Methy...	7.151	108	869	0.211	ug/ml#	96
20) Nitrobenzene	7.275	77	901	0.202	ug/ml#	39
21) Isophorone	7.551	82	1527	0.192	ug/ml#	65
22) 2-Nitrophenol	7.628	139	331M2	0.146	ug/ml	
23) 2,4-Dimethylphenol	7.716	107	737	0.207	ug/ml#	69
24) Bis(2-chloroethoxy)met...	7.810	93	1146	0.213	ug/ml#	50
25) 2,4-Dichlorophenol	7.887	162	753	0.195	ug/ml#	73
26) 1,2,4-Trichlorobenzene	7.969	180	1084	0.227	ug/ml#	83
36) Naphthalene	8.040	128	3189	0.227	ug/ml#	87
37) Benzoic Acid	0.000		0	N.D.		
38) 4-Chloroaniline	8.116	65	321M2	0.205	ug/ml	
39) Hexachlorobutadiene	8.204	225	672	0.242	ug/ml#	18
40) p-Chloro-m-cresol	8.634	107	684	0.195	ug/ml#	81
41) 2-Methylnaphthalene	8.751	142	1946	0.213	ug/ml	92
42) 1-Methylnaphthalene	8.845	115	686	0.232	ug/ml	97
43) Hexachlorocyclopentadiene	8.928	237	536	0.204	ug/ml#	27
44) 2,4,6-Trichlorophenol	9.045	196	552	0.190	ug/ml#	12
45) 2,4,5-Trichlorophenol	9.081	196	584	0.189	ug/ml#	85
47) 2-Chloronaphthalene	9.234	162	2111	0.223	ug/ml	95
48) 2-Nitroaniline	9.345	138	376M2	0.148	ug/ml	
49) 1,4-Dinitrobenzene	9.475	168	83M2	0.061	ug/ml	
50) 1,3-Dinitrobenzene	9.551	168	155M2	0.097	ug/ml	
51) Dimethyl phthalate	9.545	163	2321	0.217	ug/ml#	77
52) Acenaphthylene	9.634	152	2934	0.209	ug/ml#	86
53) 2,6-Dinitrotoluene	9.586	165	328M2	0.157	ug/ml	
54) 1,2-Dinitrobenzene	9.628	168	114M2	0.120	ug/ml	
64) 3-Nitroaniline	9.745	138	336M2	0.144	ug/ml	
65) Acenaphthene	9.810	154	1855	0.224	ug/ml	88
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	9.981	168	3115	0.228	ug/ml	94
68) 2,4-Dinitrotoluene	9.981	165	414	0.139	ug/ml#	10
69) 4-Nitrophenol	9.928	65	257M2	0.139	ug/ml	
70) 2,3,5,6-Tetrachlorophenol	10.069	232	436	0.176	ug/ml#	17
71) 2,3,4,6-Tetrachlorophenol	10.116	232	387M3	0.163	ug/ml	
72) Diethyl phthalate	10.239	149	2086	0.216	ug/ml#	85
73) Fluorene	10.316	166	2222	0.217	ug/ml#	88

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL2.D
Acq On : 30 Jul 2024 10:24 pm
Operator : SV107:cmm
Sample : IL9,32,,ABNL0.2 Lot# 10785
Misc : WG1954578,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 31 17:11:49 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:13:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Chlorophenyl phenyl ...	10.333	204	1185	0.228	ug/ml#	71
75)	4-Nitroaniline	10.333	138	274M2	0.118	ug/ml	
76)	4,6-Dinitro-o-cresol	0.000		0	N.D.		
77)	NDPA/DPA	10.445	169	1784	0.210	ug/ml	95
78)	Azobenzene	10.481	77	1879	0.210	ug/ml#	79
80)	4-Bromophenyl phenyl e...	10.804	248	571	0.204	ug/ml#	88
81)	Hexachlorobenzene	10.857	284	636	0.206	ug/ml#	33
82)	Pentachlorophenol	0.000		0	N.D.		
89)	Phenanthrene	11.245	178	3848	0.231	ug/ml	98
90)	Anthracene	11.292	178	3323	0.211	ug/ml	99
91)	Carbazole	11.463	167	2797	0.195	ug/ml#	83
92)	Di-n-butylphthalate	11.845	149	2668	0.169	ug/ml#	79
93)	Fluoranthene	12.410	202	3771	0.207	ug/ml#	93
94)	Benzidine	12.557	184	1337	0.135	ug/ml#	68
95)	Pyrene	12.627	202	4202	0.212	ug/ml	97
97)	Butyl benzyl phthalate	13.345	149	948	0.140	ug/ml#	86
105)	Benzo(a)anthracene	13.880	228	3897	0.216	ug/ml	99
106)	3,3'-Dichlorobenzidine	13.874	252	801	0.148	ug/ml#	89
107)	Chrysene	13.916	228	4317	0.248	ug/ml	97
108)	Bis(2-ethylhexyl)phtha...	13.986	149	1308	0.157	ug/ml#	52
109)	Di-n-octylphthalate	0.000		0	N.D.	d	
110)	Benzo(b)fluoranthene	15.010	252	3321	0.214	ug/ml#	83
111)	Benzo(k)fluoranthene	15.033	252	3041	0.196	ug/ml#	82
112)	Benzo(a)pyrene	15.327	252	2576	0.189	ug/ml#	78
114)	Indeno(1,2,3-cd)pyrene	16.410	276	2679M6	0.189	ug/mL	
115)	Dibenzo(a,h)anthracene	16.433	278	2615	0.192	ug/ml#	89
116)	Benzo(ghi)perylene	16.680	276	2842	0.225	ug/ml#	83

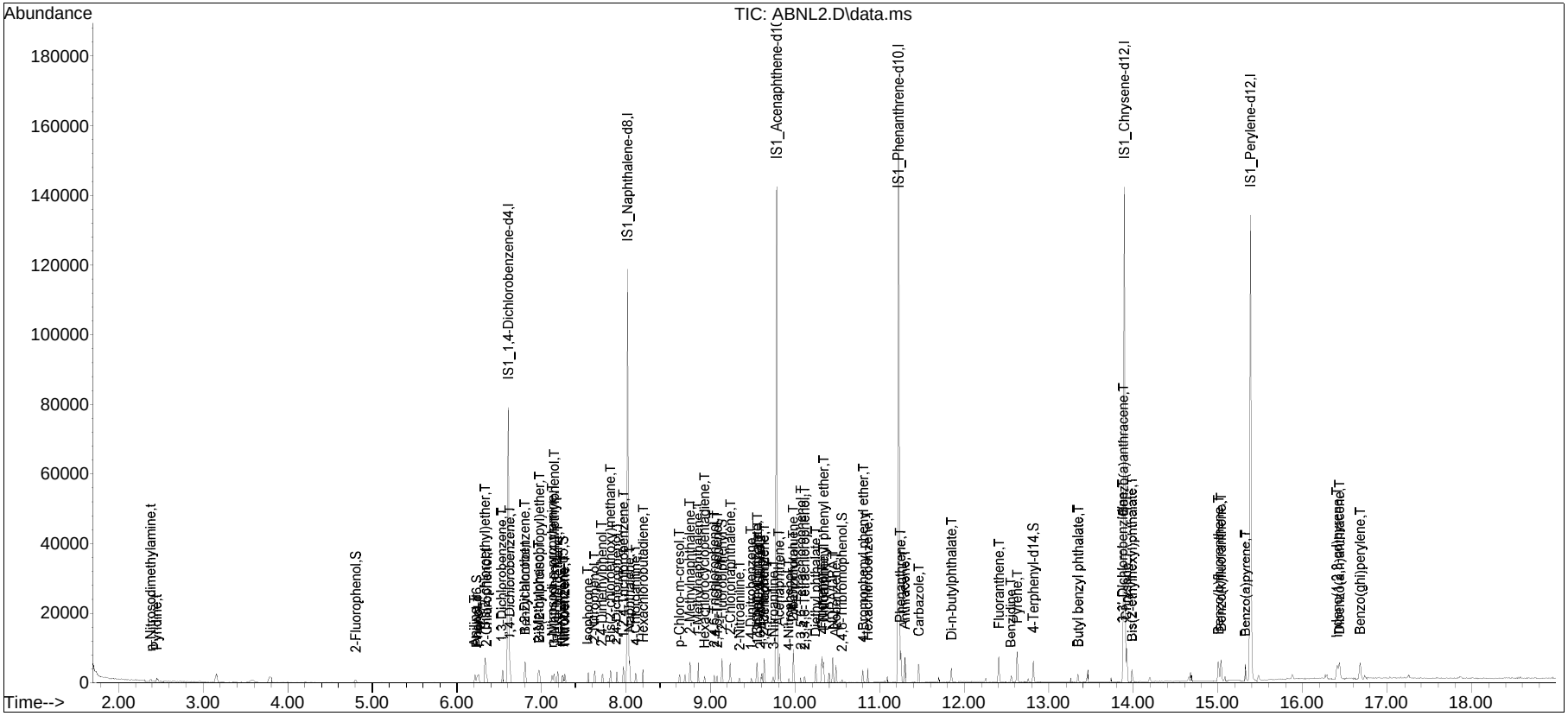
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL2.D
Acq On : 30 Jul 2024 10:24 pm
Operator : SV107:cmm
Sample : IL9,32,,ABNL0.2 Lot# 10785
Misc : WG1954578,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 31 17:11:49 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:13:04 2024
Response via : Initial Calibration

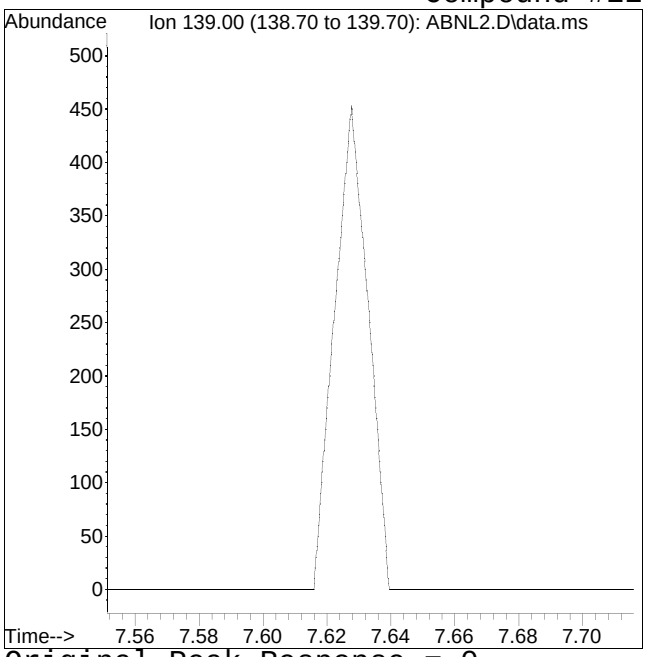
Sub List : ABNical - ABN ical sublistal\ABNL6.D•

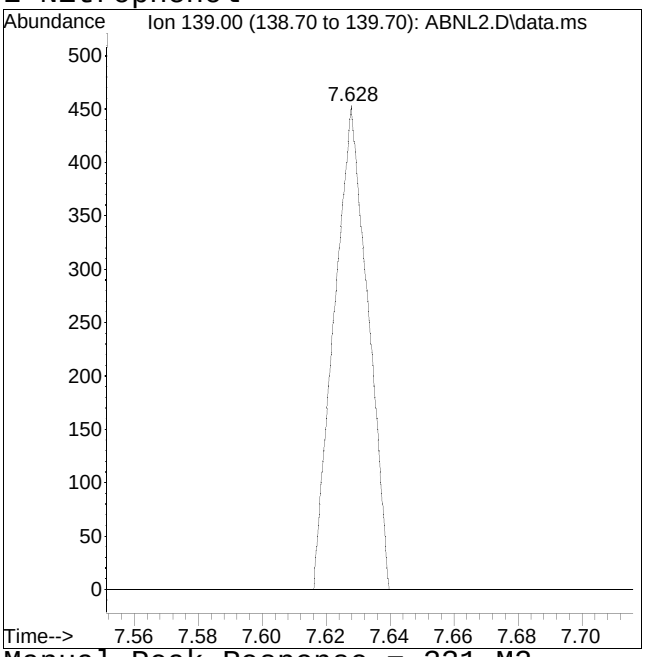


Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL2.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:24 pm Instrument : SV107
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 7/31/2024 5:13 pm

Compound #22: 2-Nitrophenol



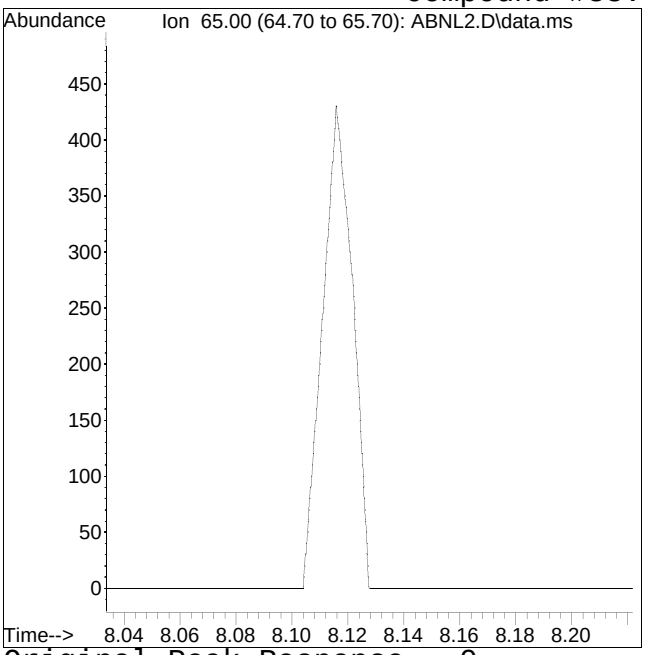


Original Peak Response = 0 Manual Peak Response = 331 M2
M2 = Peak not found by automatic integration algorithm.

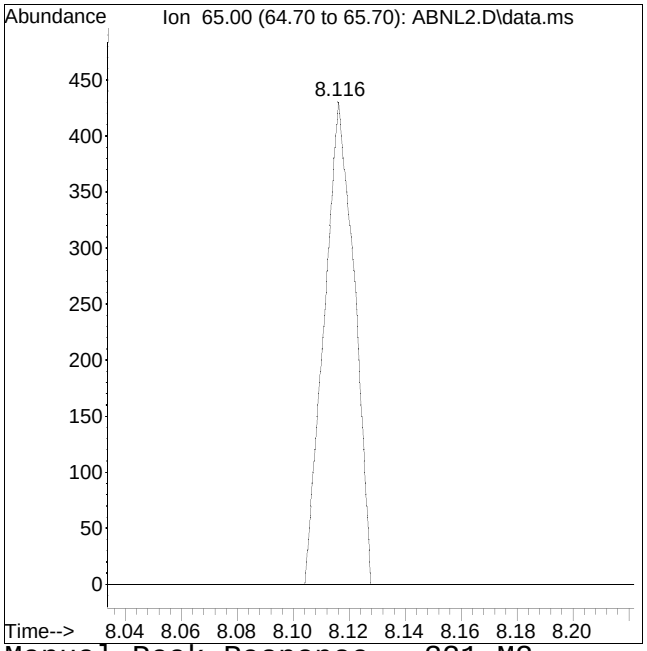
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL2.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:24 pm Instrument : SV107
Sample : IL9,32,,ABNL0.2 Lot# 10785 Quant Date : 7/31/2024 5:13 pm

Compound #38: 4-Chloroaniline



Original Peak Response = 0



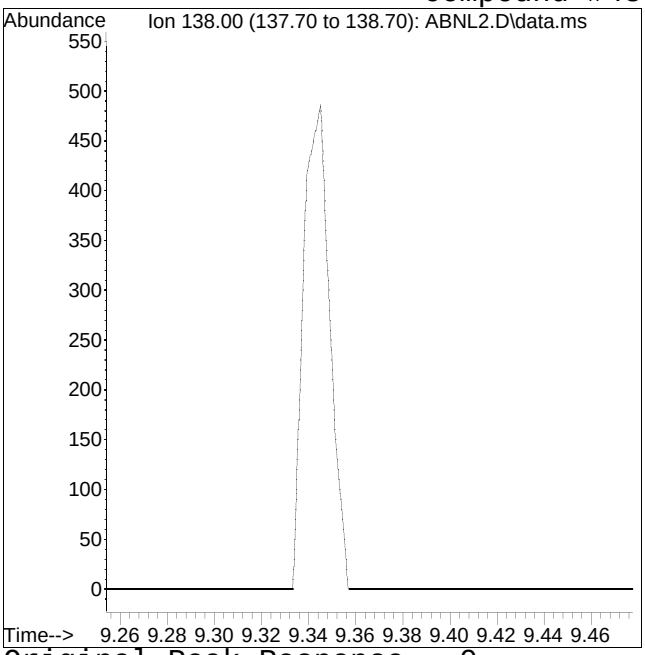
Manual Peak Response = 321 M2

M2 = Peak not found by automatic integration algorithm.

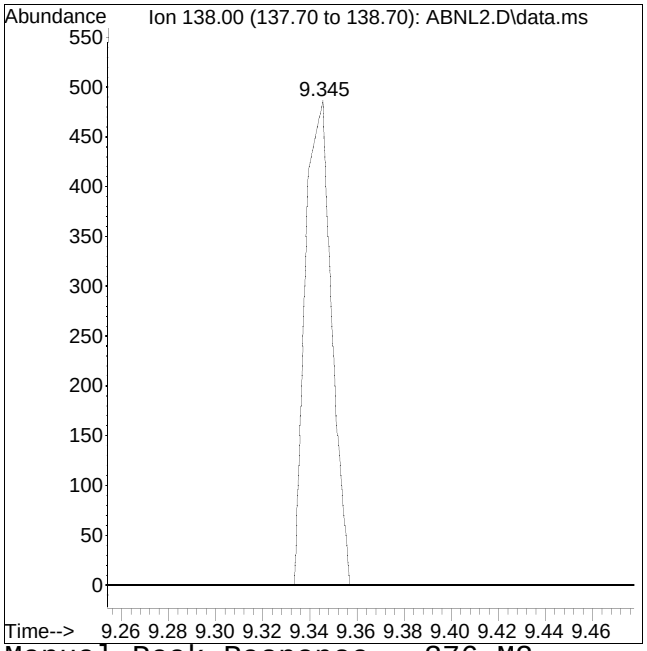
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL2.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:24 pm Instrument : SV107
Sample : IL9,32,,ABNL0.2 Lot# 10785 Quant Date : 7/31/2024 5:13 pm

Compound #48: 2-Nitroaniline



Original Peak Response = 0



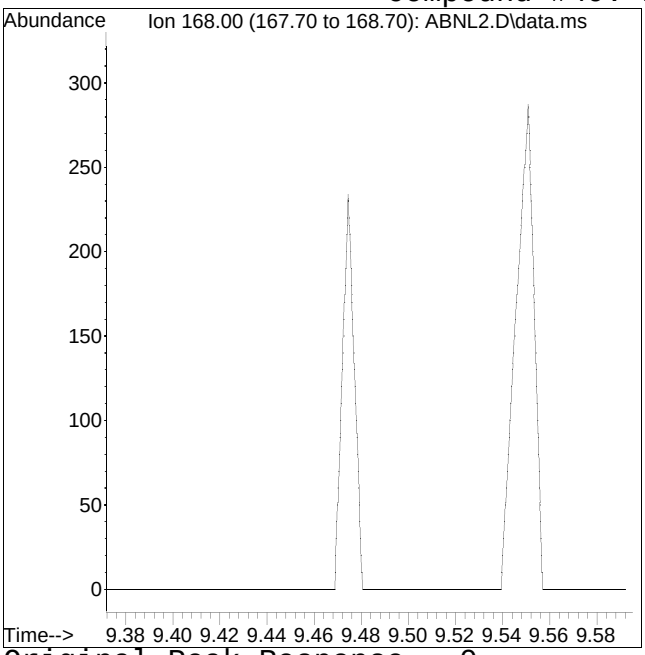
Manual Peak Response = 376 M2

M2 = Peak not found by automatic integration algorithm.

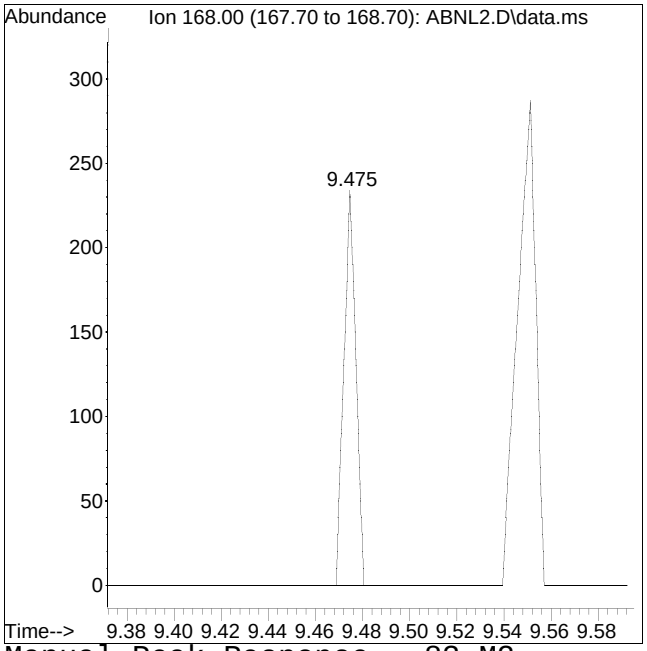
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL2.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:24 pm Instrument : SV107
Sample : IL9,32,,ABNL0.2 Lot# 10785 Quant Date : 7/31/2024 5:13 pm

Compound #49: 1,4-Dinitrobenzene



Original Peak Response = 0



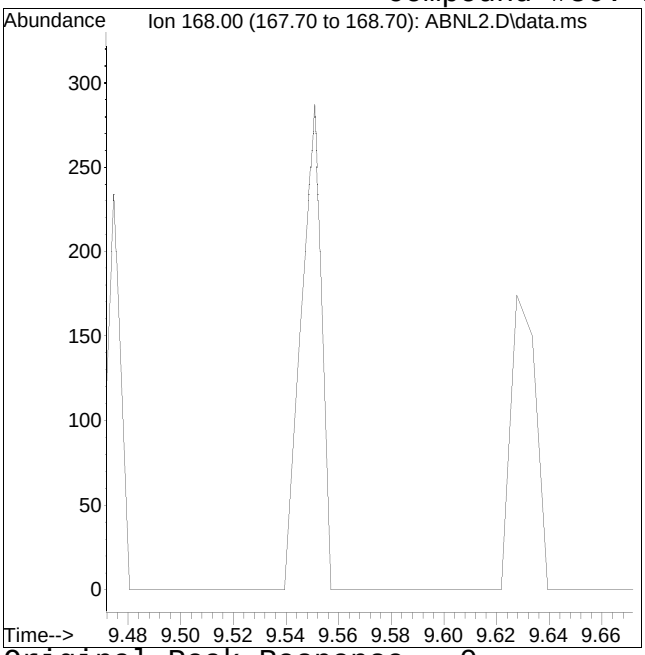
Manual Peak Response = 83 M2

M2 = Peak not found by automatic integration algorithm.

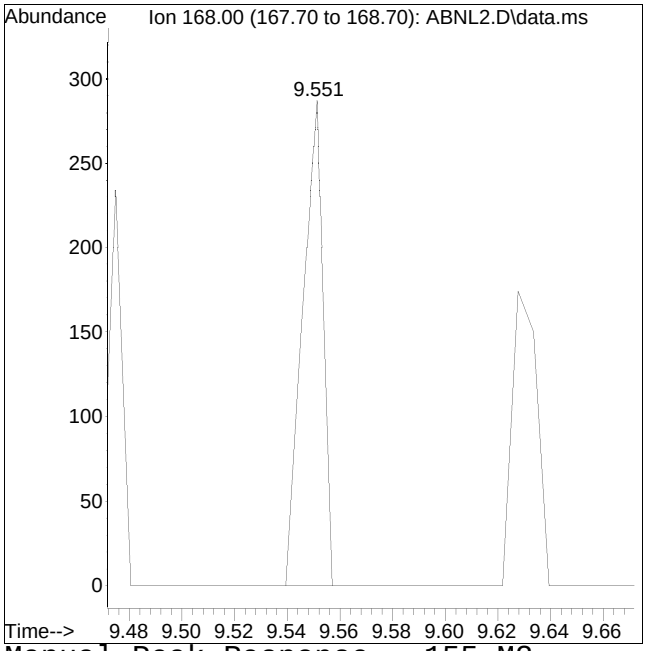
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL2.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:24 pm Instrument : SV107
Sample : IL9,32,,ABNL0.2 Lot# 10785 Quant Date : 7/31/2024 5:13 pm

Compound #50: 1,3-Dinitrobenzene



Original Peak Response = 0



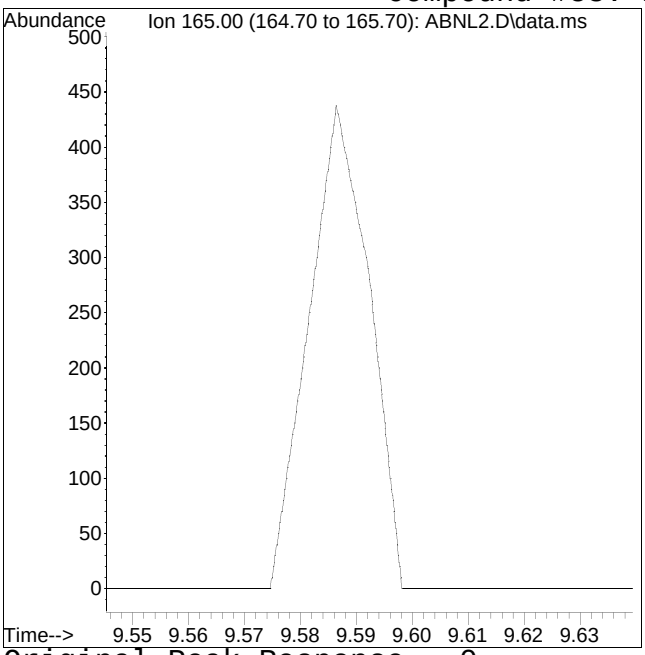
Manual Peak Response = 155 M2

M2 = Peak not found by automatic integration algorithm.

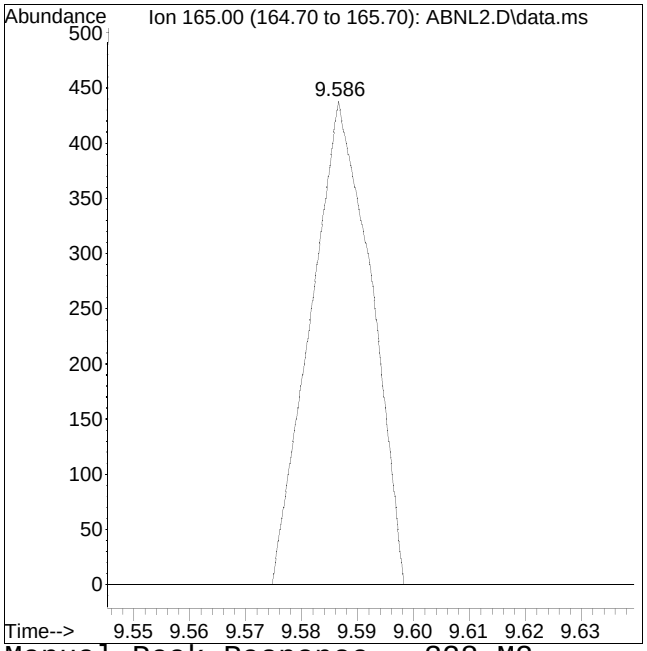
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL2.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:24 pm Instrument : SV107
Sample : IL9,32,,ABNL0.2 Lot# 10785 Quant Date : 7/31/2024 5:13 pm

Compound #53: 2,6-Dinitrotoluene



Original Peak Response = 0



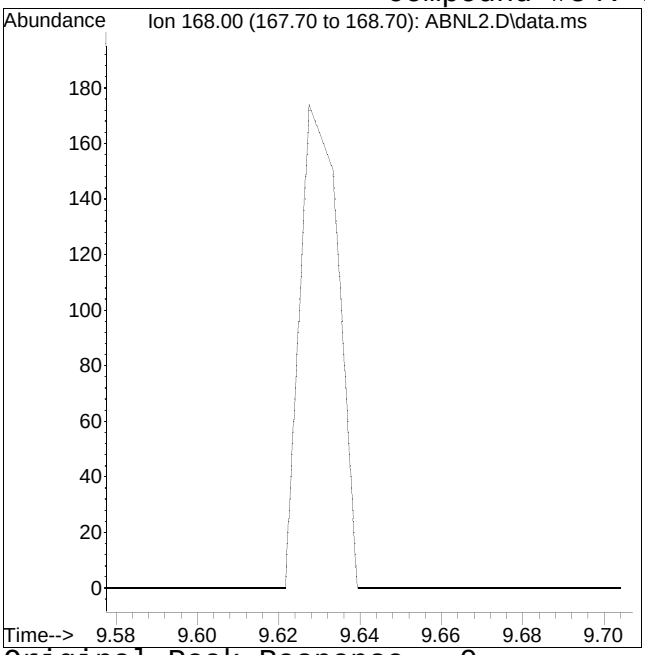
Manual Peak Response = 328 M2

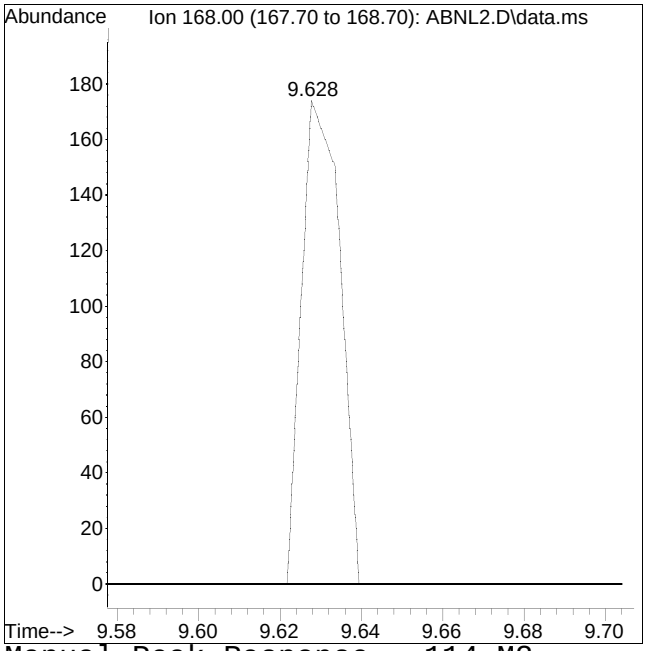
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL2.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:24 pm Instrument : SV107
Sample : IL9,32,,ABNL0.2 Lot# 10785 Quant Date : 7/31/2024 5:13 pm

Compound #54: 1,2-Dinitrobenzene



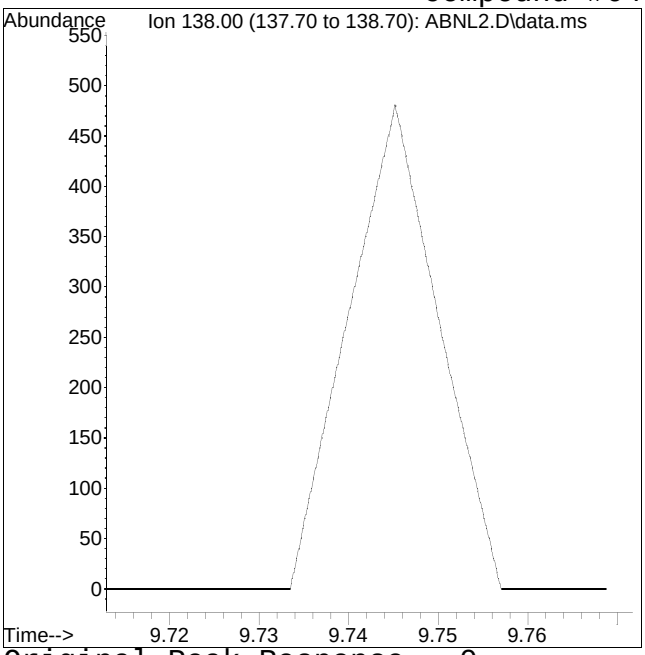


Original Peak Response = 0 Manual Peak Response = 114 M2
M2 = Peak not found by automatic integration algorithm.

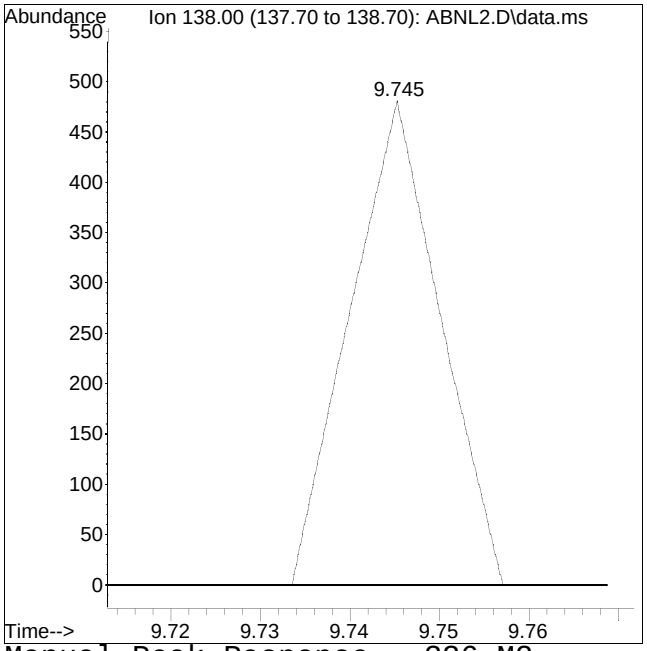
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL2.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:24 pm Instrument : SV107
Sample : IL9,32,,ABNL0.2 Lot# 10785 Quant Date : 7/31/2024 5:13 pm

Compound #64: 3-Nitroaniline



Original Peak Response = 0



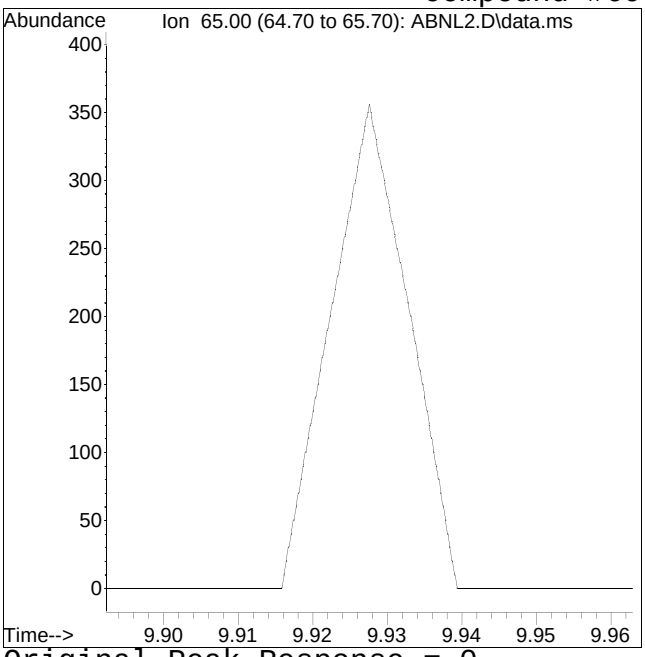
Manual Peak Response = 336 M2

M2 = Peak not found by automatic integration algorithm.

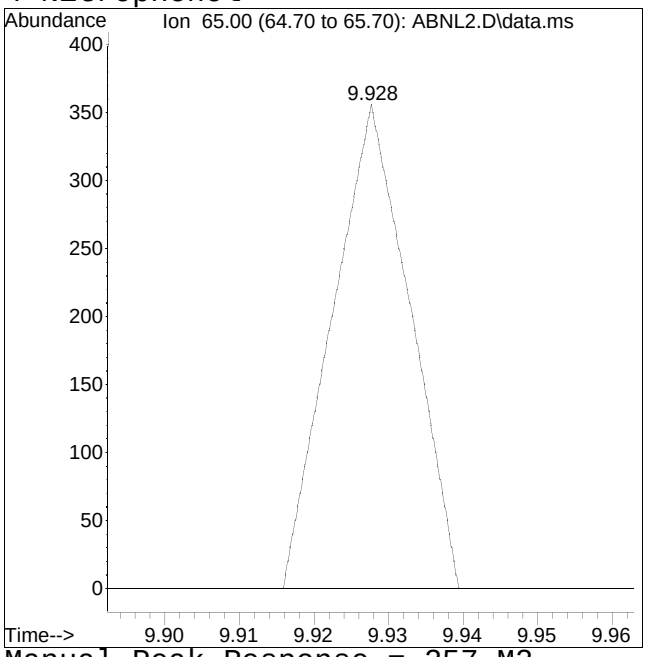
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL2.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:24 pm Instrument : SV107
Sample : IL9,32,,ABNL0.2 Lot# 10785 Quant Date : 7/31/2024 5:13 pm

Compound #69: 4-Nitrophenol



Original Peak Response = 0



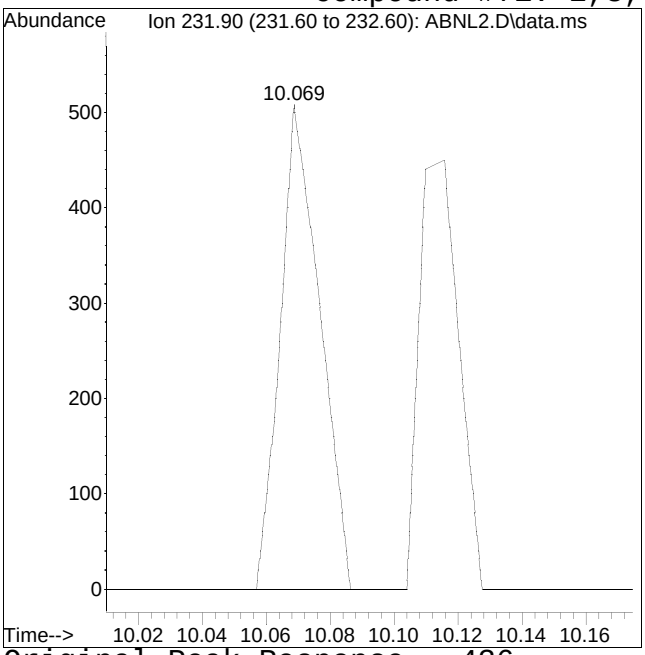
Manual Peak Response = 257 M2

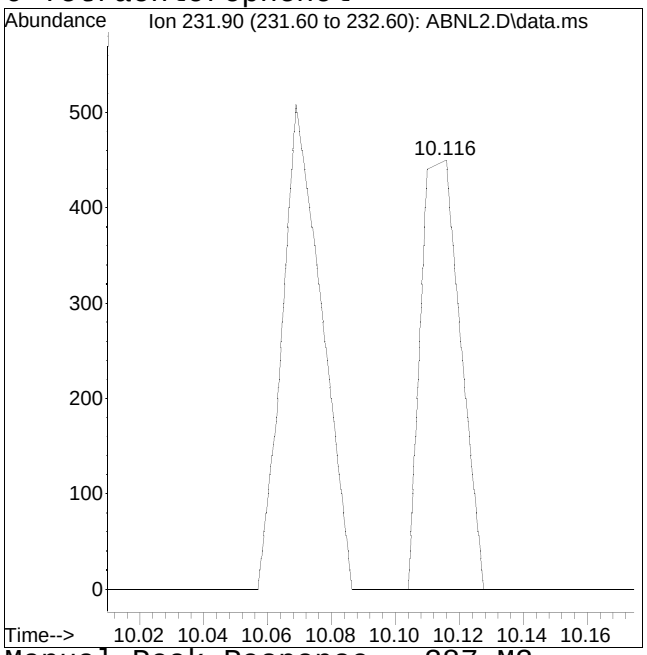
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL2.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:24 pm Instrument : SV107
Sample : IL9,32,,ABNL0.2 Lot# 10785 Quant Date : 7/31/2024 5:13 pm

Compound #71: 2,3,4,6-Tetrachlorophenol





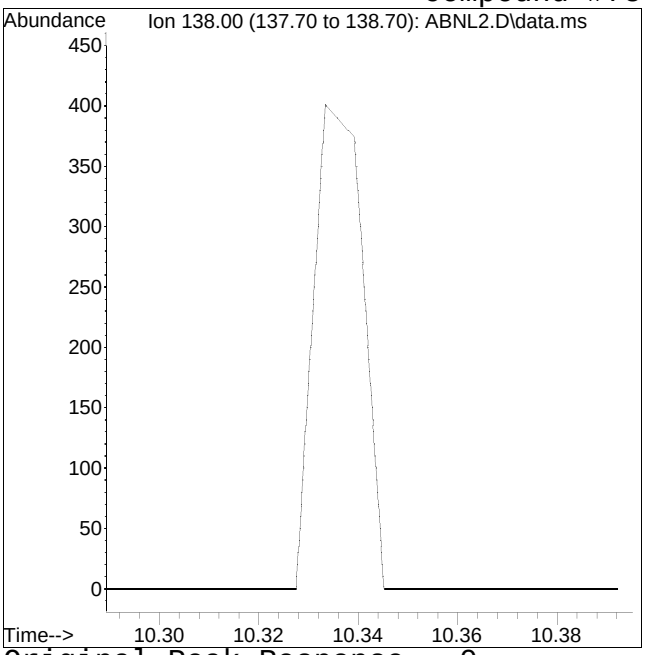
Original Peak Response = 436 Manual Peak Response = 387 M3

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.

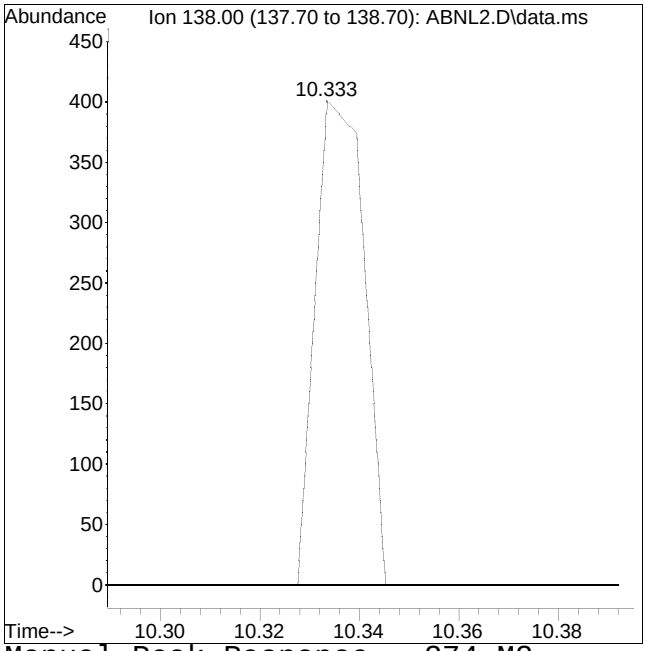
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL2.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:24 pm Instrument : SV107
Sample : IL9,32,,ABNL0.2 Lot# 10785 Quant Date : 7/31/2024 5:13 pm

Compound #75: 4-Nitroaniline



Original Peak Response = 0



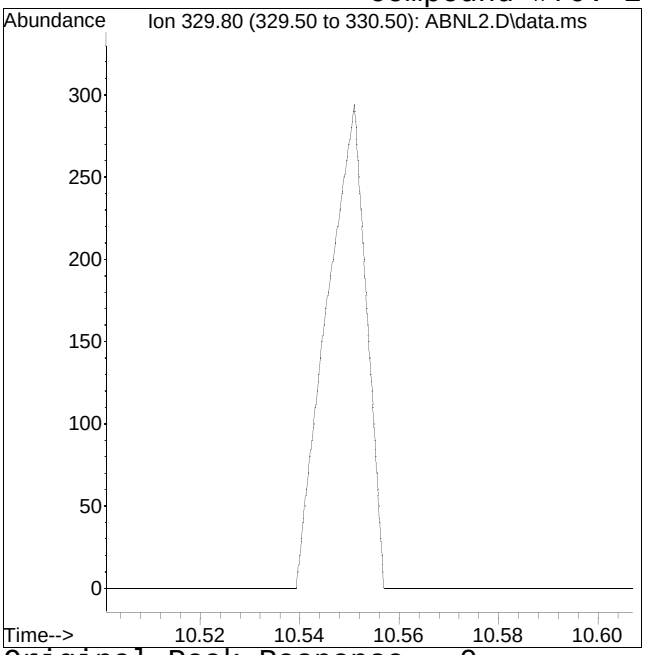
Manual Peak Response = 274 M2

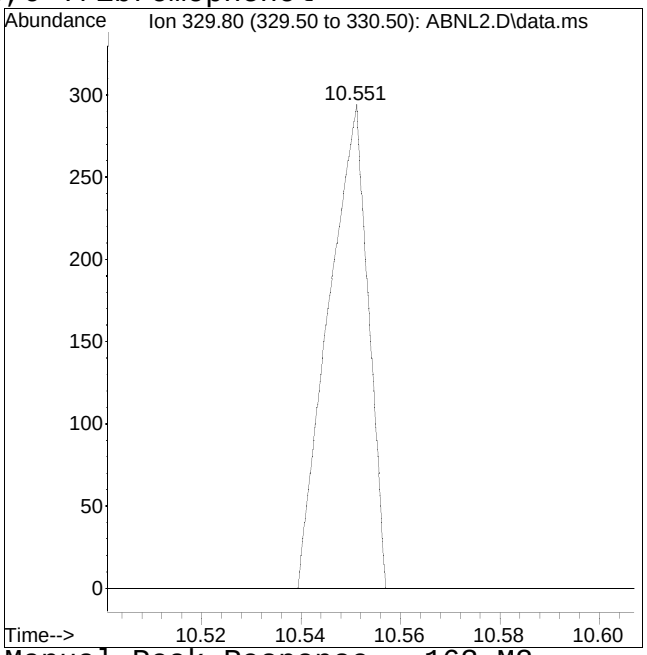
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL2.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:24 pm Instrument : SV107
Sample : IL9,32,,ABNL0.2 Lot# 10785 Quant Date : 7/31/2024 5:13 pm

Compound #79: 2,4,6-Tribromophenol



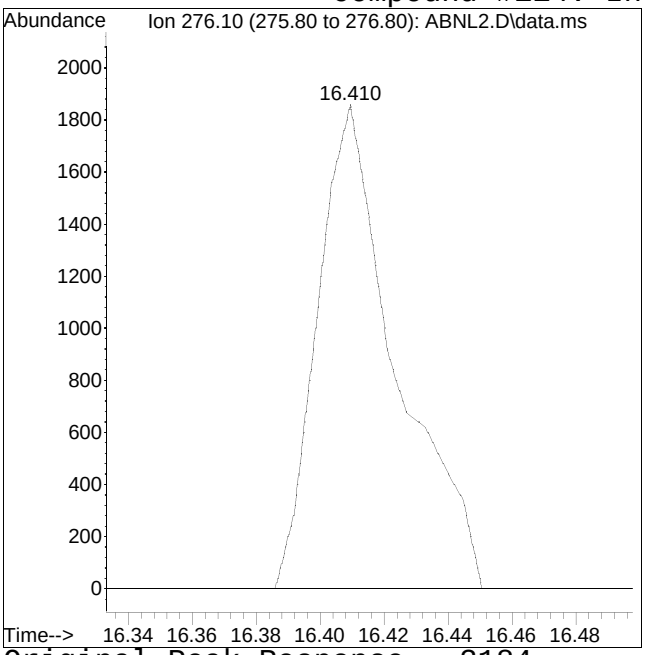


Original Peak Response = 0 Manual Peak Response = 163 M2
M2 = Peak not found by automatic integration algorithm.

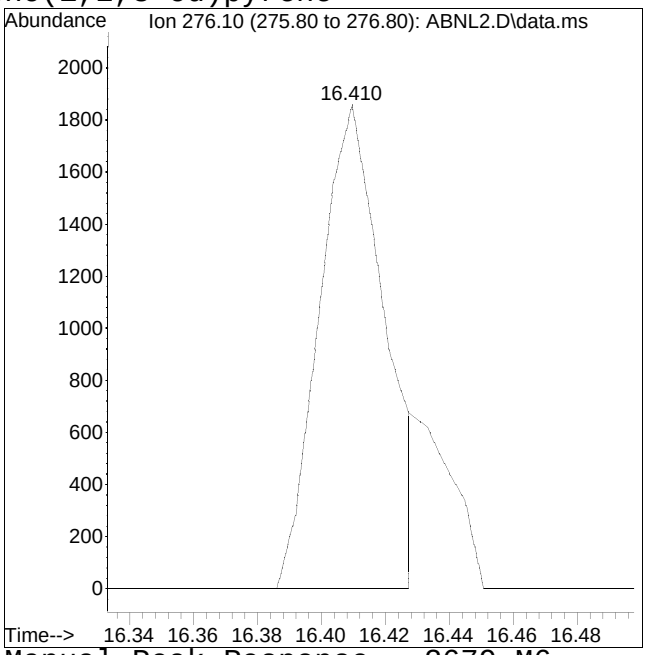
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL2.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:24 pm Instrument : SV107
Sample : IL9,32,,ABNL0.2 Lot# 10785 Quant Date : 7/31/2024 5:13 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 3184



Manual Peak Response = 2679 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL1.D
Acq On : 30 Jul 2024 10:50 pm
Operator : SV107:cmm
Sample : IL10,32,,ABNL0.1 Lot# 10786
Misc : WG1954578,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 31 17:11:41 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:12:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	6.610	152	14719	4.000 ug/ml	0.00
Standard Area 1 = 14527			Recovery =	101.32%	
35) IS1_Naphthalene-d8	8.016	136	53075	4.000 ug/ml	0.00
Standard Area 1 = 53319			Recovery =	99.54%	
63) IS1_Acenaphthene-d10	9.780	164	31074	4.000 ug/ml	0.00
Standard Area 1 = 30073			Recovery =	103.33%	
88) IS1_Phenanthrene-d10	11.222	188	63672	4.000 ug/ml	0.00
Standard Area 1 = 55264			Recovery =	115.21%	
104) IS1_Chrysene-d12	13.886	240	54206	4.000 ug/ml	0.00
Standard Area 1 = 49010			Recovery =	110.60%	
113) IS1_Perylene-d12	15.380	264	53317	4.000 ug/ml	0.00
Standard Area 1 = 53266			Recovery =	100.10%	
System Monitoring Compounds					
4) 2-Fluorophenol	4.804	112	255M2	0.067 ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery =	3.35%#	
7) Phenol-d6	6.234	99	460	0.088 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	4.40%#	
19) Nitrobenzene-d5	7.257	82	523	0.104 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	10.40%#	
46) 2-Fluorobiphenyl	9.133	172	1290	0.108 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	10.80%#	
79) 2,4,6-Tribromophenol	0.000	330	0	0.000 ug/ml	
Spiked Amount 2.000	Range 15 - 110		Recovery =	0.00%#	
96) 4-Terphenyl-d14	12.816	244	1494	0.099 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	9.90%#	
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.387	74	143M2	0.058 ug/ml	
3) Pyridine	0.000		0	N.D.	
5) Aniline	6.210	93	622	0.096 ug/ml#	41
6) 2-Chlorophenol	6.351	128	456	0.096 ug/ml#	30
8) Phenol	6.251	94	561	0.097 ug/ml#	37
9) Bis(2-chloroethyl)ether	6.334	93	491	0.107 ug/ml#	74
10) 1,3-Dichlorobenzene	6.534	146	598	0.102 ug/ml#	24
11) 1,4-Dichlorobenzene	6.628	146	581	0.099 ug/ml#	25
12) 1,2-Dichlorobenzene	6.804	146	549	0.096 ug/ml#	24
13) Benzyl alcohol	6.810	79	322M2	0.088 ug/ml	

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL1.D
Acq On : 30 Jul 2024 10:50 pm
Operator : SV107:cmm
Sample : IL10,32,,ABNL0.1 Lot# 10786
Misc : WG1954578,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 31 17:11:41 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:12:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
14) Bis(2-chloroisopropyl)...	6.981	45	583	0.098 ug/ml#	72
15) 2-Methylphenol	6.969	108	392M2	0.095 ug/ml	
16) Hexachloroethane	7.192	117	160M2	0.077 ug/ml	
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	
18) 3-Methylphenol/4-Methy...	7.151	108	359M2	0.081 ug/ml	
20) Nitrobenzene	7.275	77	457	0.095 ug/ml#	39
21) Isophorone	7.551	82	842	0.098 ug/ml#	65
22) 2-Nitrophenol	0.000		0	N.D.	
23) 2,4-Dimethylphenol	7.716	107	290M2	0.075 ug/ml	
24) Bis(2-chloroethoxy)met...	7.816	93	652	0.112 ug/ml#	50
25) 2,4-Dichlorophenol	7.886	162	288M2	0.069 ug/ml	
26) 1,2,4-Trichlorobenzene	7.969	180	510	0.099 ug/ml#	77
36) Naphthalene	8.039	128	1758	0.117 ug/ml#	62
37) Benzoic Acid	0.000		0	N.D.	
38) 4-Chloroaniline	8.116	65	140M2	0.083 ug/ml	
39) Hexachlorobutadiene	8.204	225	274M2	0.092 ug/ml	
40) p-Chloro-m-cresol	8.633	107	288M2	0.077 ug/ml	
41) 2-Methylnaphthalene	8.751	142	1095	0.112 ug/ml#	82
42) 1-Methylnaphthalene	8.851	115	281M2	0.089 ug/ml	
43) Hexachlorocyclopentadiene	8.928	237	217M2	0.077 ug/ml	
44) 2,4,6-Trichlorophenol	9.051	196	222M2	0.071 ug/ml	
45) 2,4,5-Trichlorophenol	9.081	196	226M2	0.068 ug/ml	
47) 2-Chloronaphthalene	9.233	162	1138	0.112 ug/ml#	38
48) 2-Nitroaniline	9.345	138	152M2	0.056 ug/ml	
49) 1,4-Dinitrobenzene	0.000		0	N.D.	
50) 1,3-Dinitrobenzene	0.000		0	N.D.	
51) Dimethyl phthalate	0.000		0	N.D. d	
52) Acenaphthylene	9.633	152	1514	0.101 ug/ml#	61
53) 2,6-Dinitrotoluene	9.586	165	75M2	0.033 ug/ml	
54) 1,2-Dinitrobenzene	0.000		0	N.D.	
64) 3-Nitroaniline	0.000		0	N.D.	
65) Acenaphthene	9.810	154	946	0.107 ug/ml	84
66) 2,4-Dinitrophenol	0.000		0	N.D.	
67) Dibenzofuran	9.980	168	1771	0.121 ug/ml#	87
68) 2,4-Dinitrotoluene	9.980	165	146M2	0.046 ug/ml	
69) 4-Nitrophenol	0.000		0	N.D.	
70) 2,3,5,6-Tetrachlorophenol	10.069	232	153M2	0.058 ug/ml	
71) 2,3,4,6-Tetrachlorophenol	10.110	232	156M2	0.062 ug/ml	
72) Diethyl phthalate	10.239	149	1068	0.104 ug/ml#	61
73) Fluorene	10.316	166	1131	0.104 ug/ml#	85

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL1.D
Acq On : 30 Jul 2024 10:50 pm
Operator : SV107:cmm
Sample : IL10,32,,ABNL0.1 Lot# 10786
Misc : WG1954578,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 31 17:11:41 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:12:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Chlorophenyl phenyl ...	10.333	204	621	0.112	ug/ml#	25
75) 4-Nitroaniline	10.333	138	119M2	0.048	ug/ml	
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	10.445	169	810	0.089	ug/ml#	73
78) Azobenzene	10.480	77	903	0.095	ug/ml#	56
80) 4-Bromophenyl phenyl e...	10.804	248	315M2	0.105	ug/ml	
81) Hexachlorobenzene	0.000		0	N.D.		
82) Pentachlorophenol	0.000		0	N.D.		
89) Phenanthrene	11.245	178	2089	0.114	ug/ml#	60
90) Anthracene	11.292	178	1759	0.101	ug/ml#	61
91) Carbazole	11.463	167	1439	0.091	ug/ml#	59
92) Di-n-butylphthalate	11.845	149	1500	0.086	ug/ml#	79
93) Fluoranthene	12.410	202	2019	0.101	ug/ml#	61
94) Benzidine	0.000		0	N.D.	d	
95) Pyrene	12.627	202	2274	0.104	ug/ml#	79
97) Butyl benzyl phthalate	13.339	149	462	0.062	ug/ml#	19
105) Benzo(a)anthracene	13.880	228	2191	0.111	ug/ml#	76
106) 3,3'-Dichlorobenzidine	13.874	252	403	0.068	ug/ml#	27
107) Chrysene	13.916	228	2436	0.128	ug/ml#	82
108) Bis(2-ethylhexyl)phtha...	13.986	149	660	0.073	ug/ml#	52
109) Di-n-octylphthalate	0.000		0	N.D.	d	
110) Benzo(b)fluoranthene	15.004	252	1604	0.095	ug/ml#	58
111) Benzo(k)fluoranthene	15.027	252	1459	0.086	ug/ml#	58
112) Benzo(a)pyrene	15.321	252	1259	0.084	ug/ml#	57
114) Indeno(1,2,3-cd)pyrene	16.404	276	1194M6	0.082	ug/mL	
115) Dibenzo(a,h)anthracene	16.433	278	1147	0.082	ug/ml#	51
116) Benzo(ghi)perylene	16.680	276	1276	0.098	ug/ml#	44

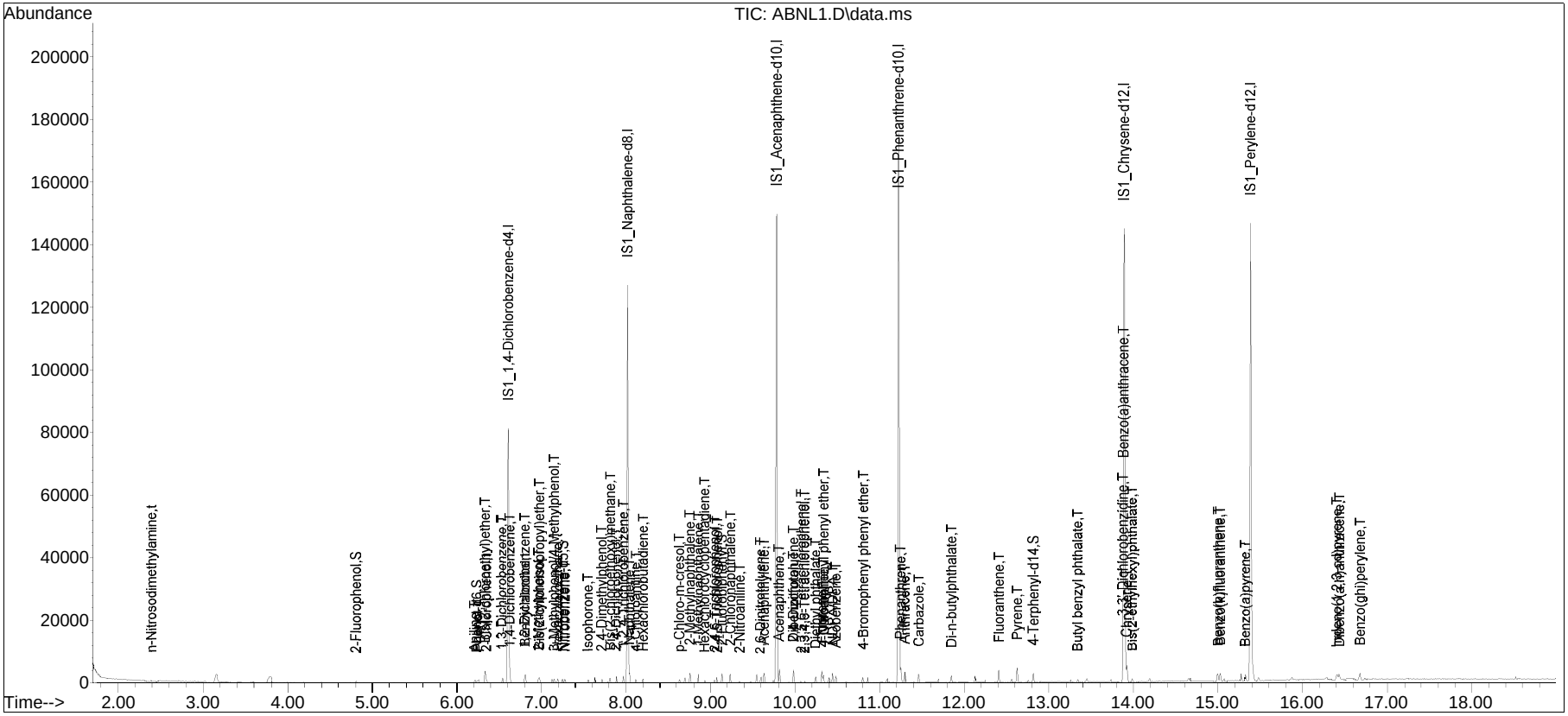
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ABNL1.D
Acq On : 30 Jul 2024 10:50 pm
Operator : SV107:cmm
Sample : IL10,32,,ABNL0.1 Lot# 10786
Misc : WG1954578,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 31 17:11:41 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:12:55 2024
Response via : Initial Calibration

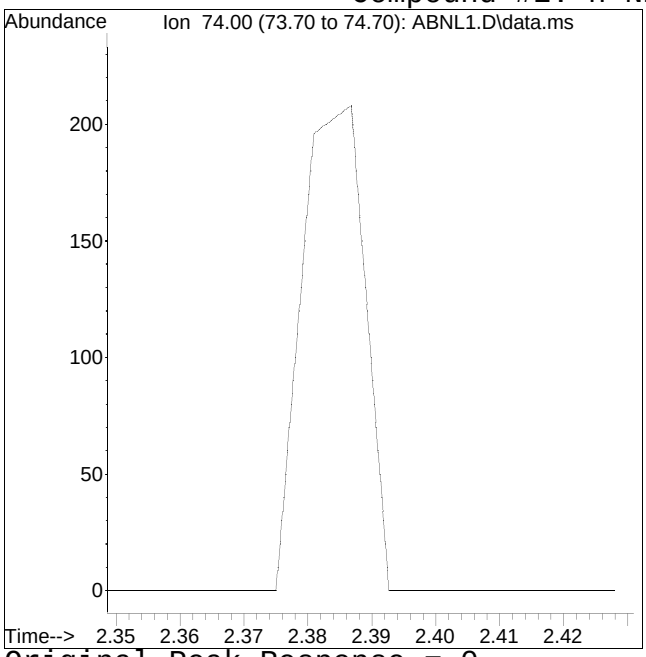
Sub List : ABNical - ABN ical sublistal\ABNL6.D•



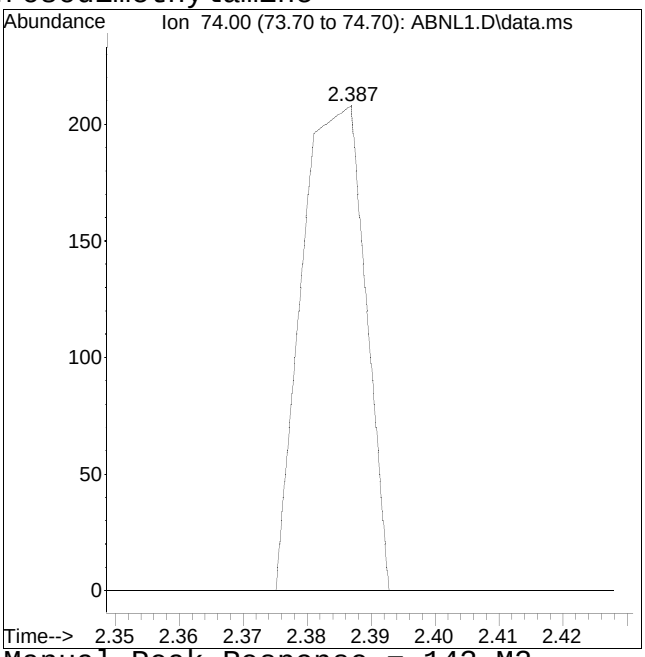
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL1.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:50 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1078 Quant Date : 7/31/2024 5:12 pm

Compound #2: n-Nitrosodimethylamine



Original Peak Response = 0



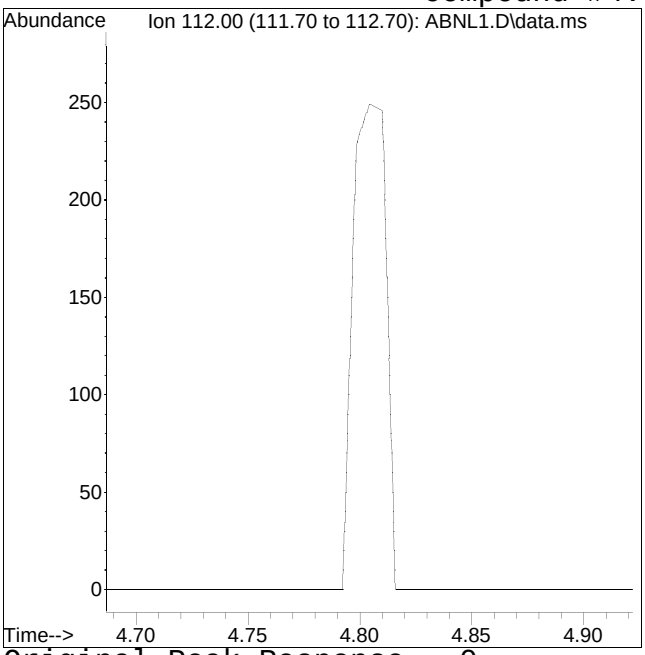
Manual Peak Response = 143 M2

M2 = Peak not found by automatic integration algorithm.

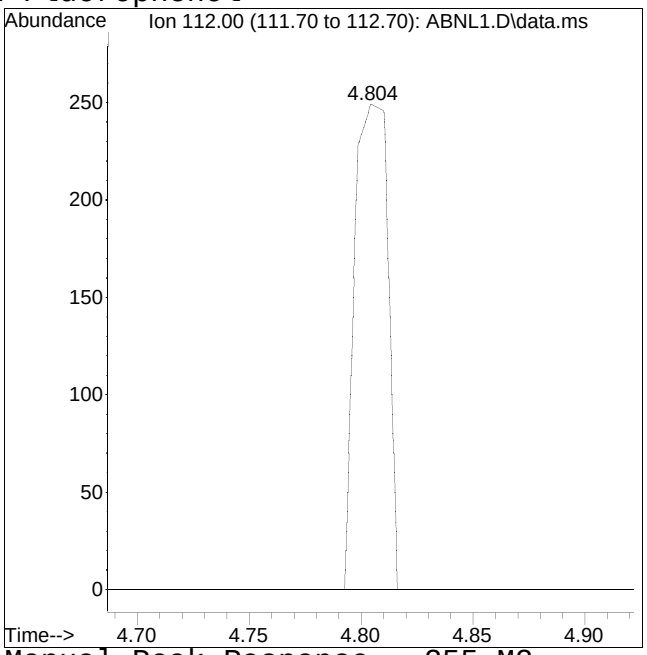
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL1.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:50 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1078 Quant Date : 7/31/2024 5:12 pm

Compound #4: 2-Fluorophenol



Original Peak Response = 0



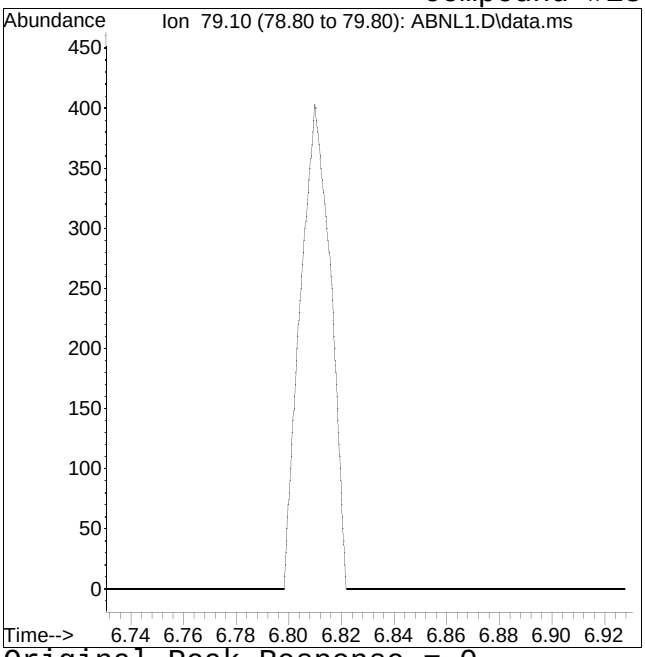
Manual Peak Response = 255 M2

M2 = Peak not found by automatic integration algorithm.

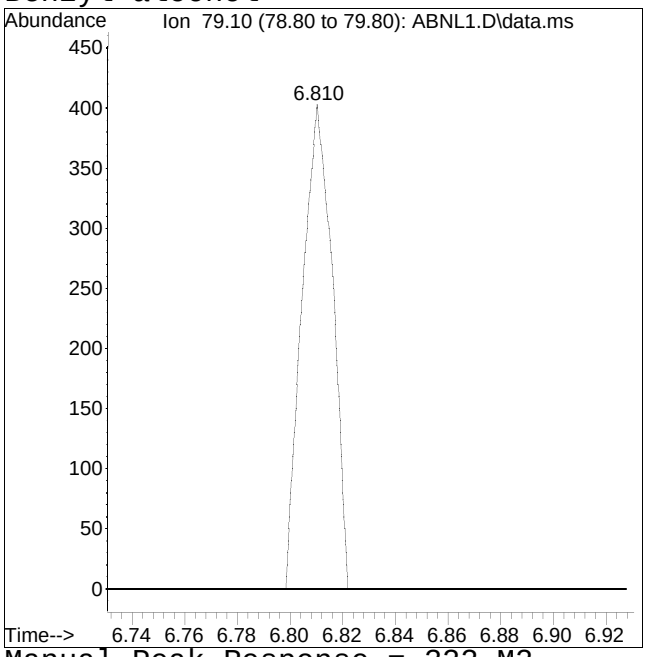
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL1.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:50 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1078 Quant Date : 7/31/2024 5:12 pm

Compound #13: Benzyl alcohol



Original Peak Response = 0



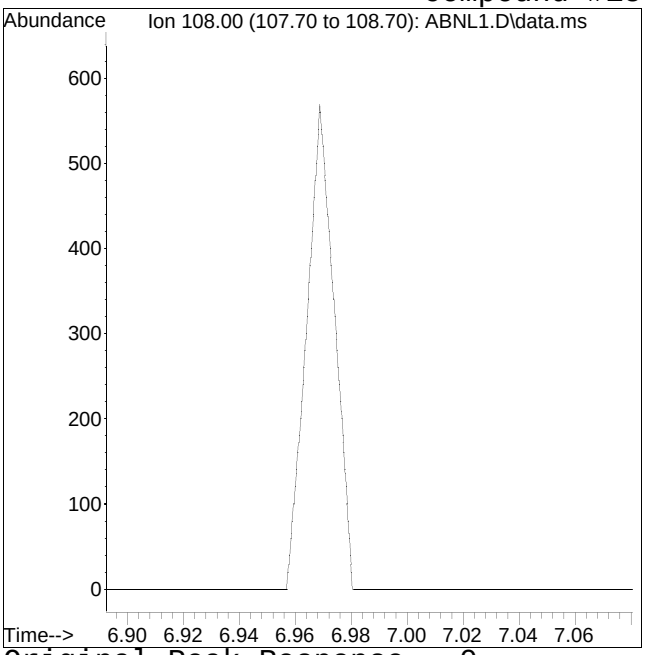
Manual Peak Response = 322 M2

M2 = Peak not found by automatic integration algorithm.

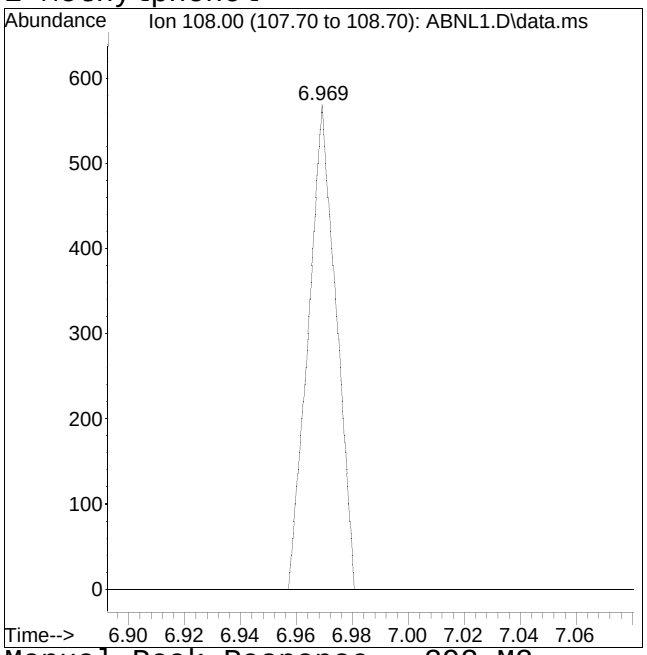
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL1.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:50 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1078 Quant Date : 7/31/2024 5:12 pm

Compound #15: 2-Methylphenol



Original Peak Response = 0



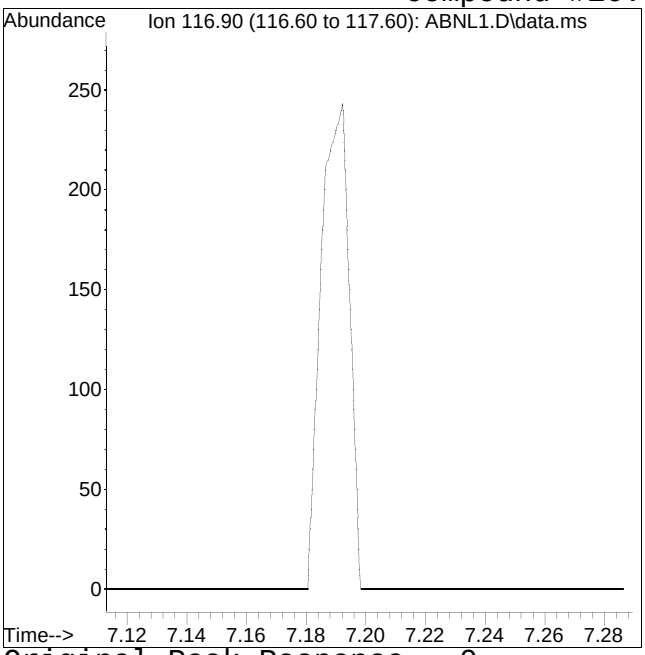
Manual Peak Response = 392 M2

M2 = Peak not found by automatic integration algorithm.

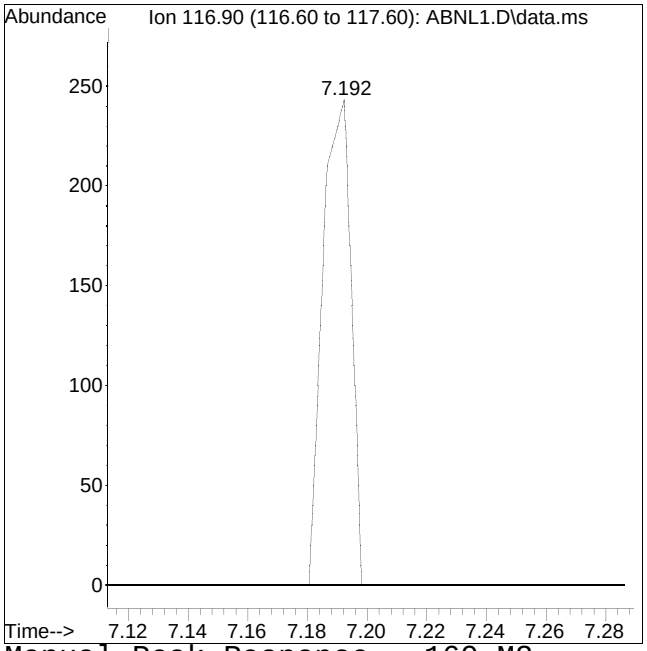
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL1.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:50 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1078 Quant Date : 7/31/2024 5:12 pm

Compound #16: Hexachloroethane



Original Peak Response = 0



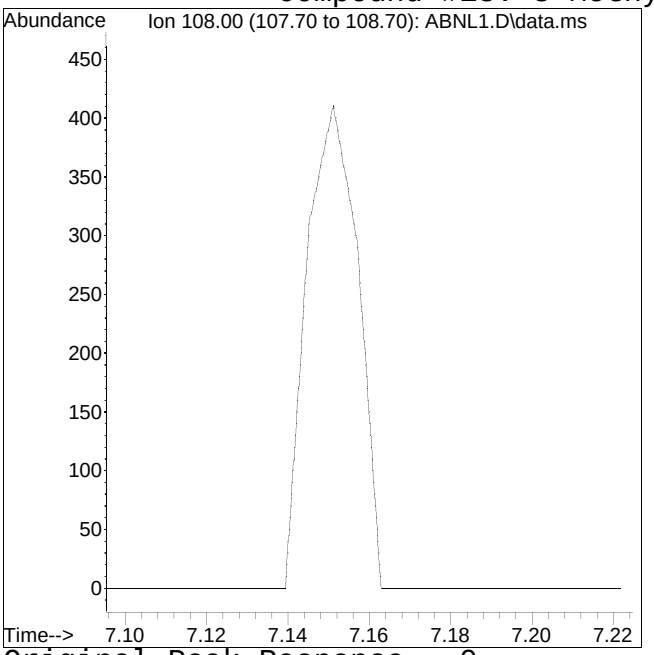
Manual Peak Response = 160 M2

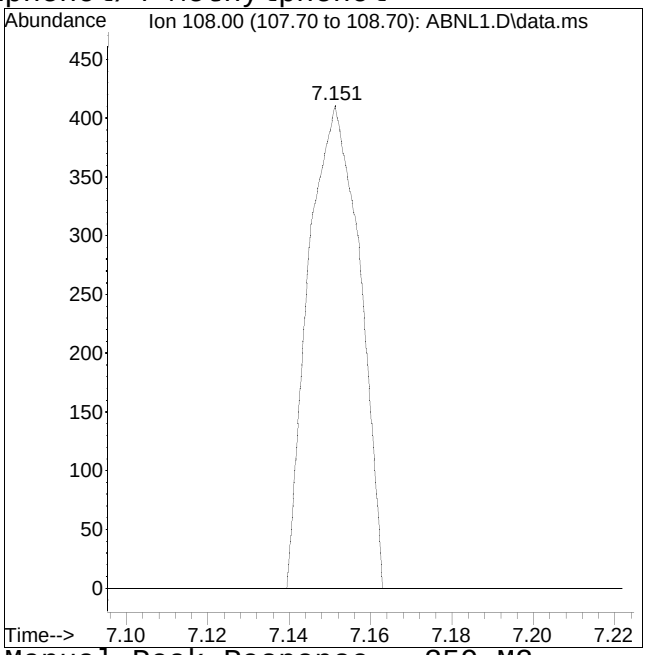
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL1.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:50 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1078 Quant Date : 7/31/2024 5:12 pm

Compound #18: 3-Methylphenol/4-Methylphenol



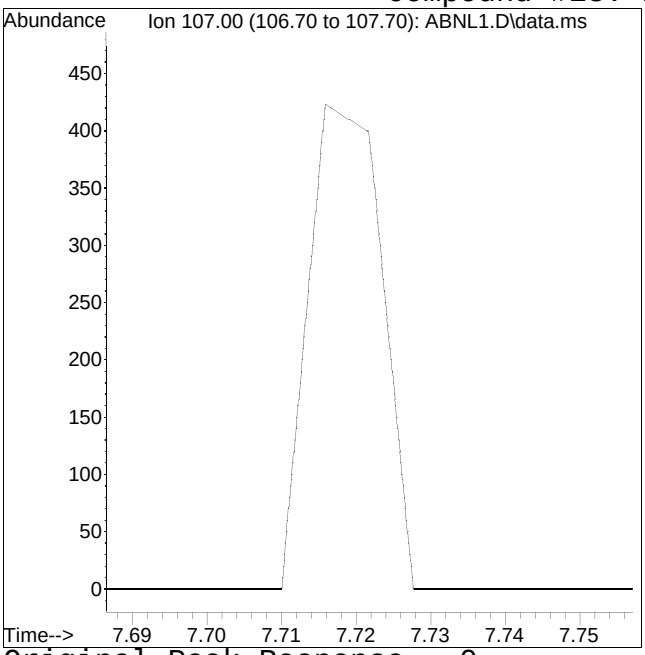


Original Peak Response = 0 Manual Peak Response = 359 M2
M2 = Peak not found by automatic integration algorithm.

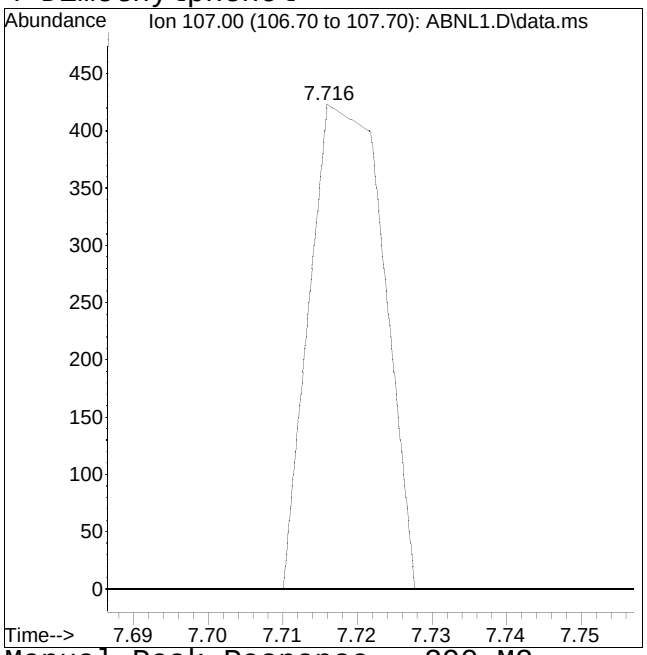
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL1.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:50 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1078 Quant Date : 7/31/2024 5:12 pm

Compound #23: 2,4-Dimethylphenol



Original Peak Response = 0



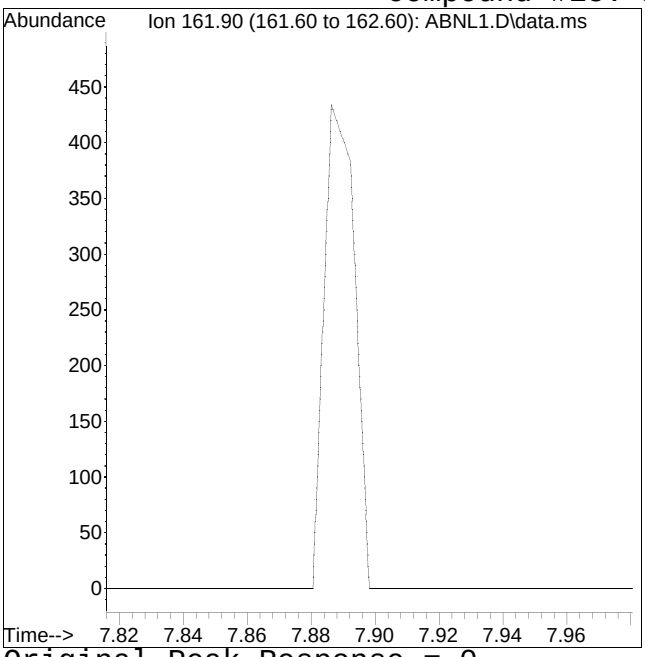
Manual Peak Response = 290 M2

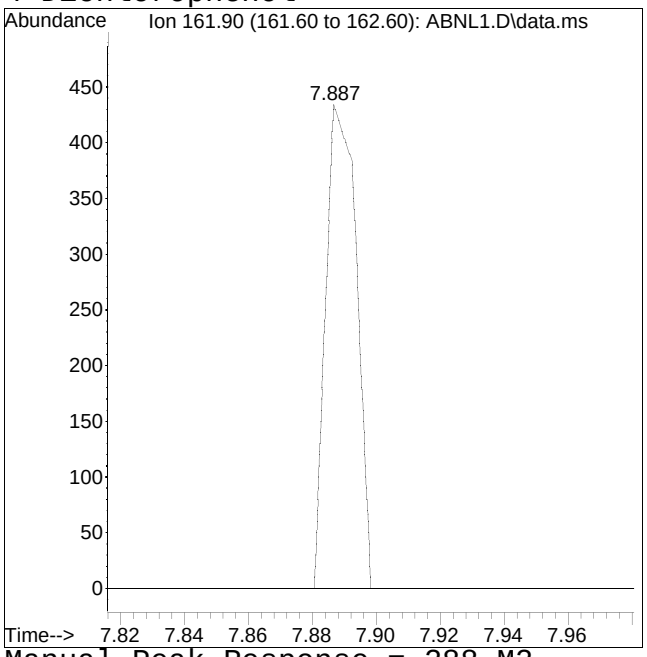
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL1.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:50 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1078 Quant Date : 7/31/2024 5:12 pm

Compound #25: 2,4-Dichlorophenol



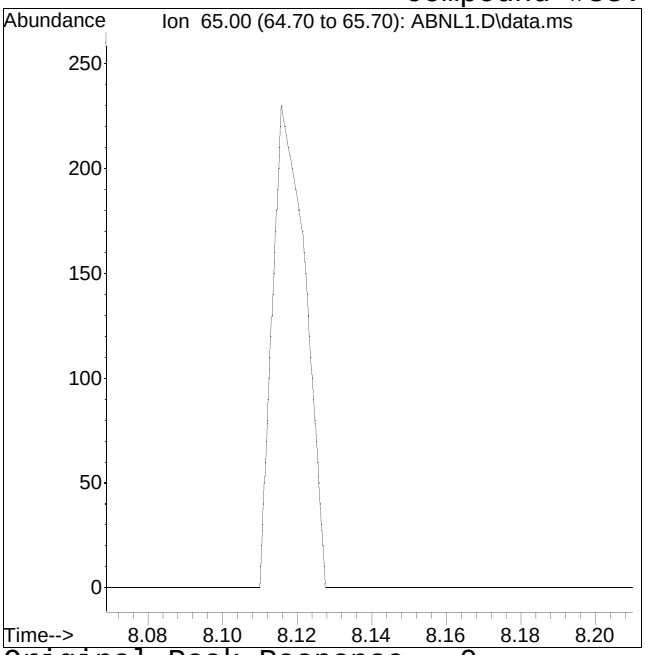


Original Peak Response = 0 Manual Peak Response = 288 M2
M2 = Peak not found by automatic integration algorithm.

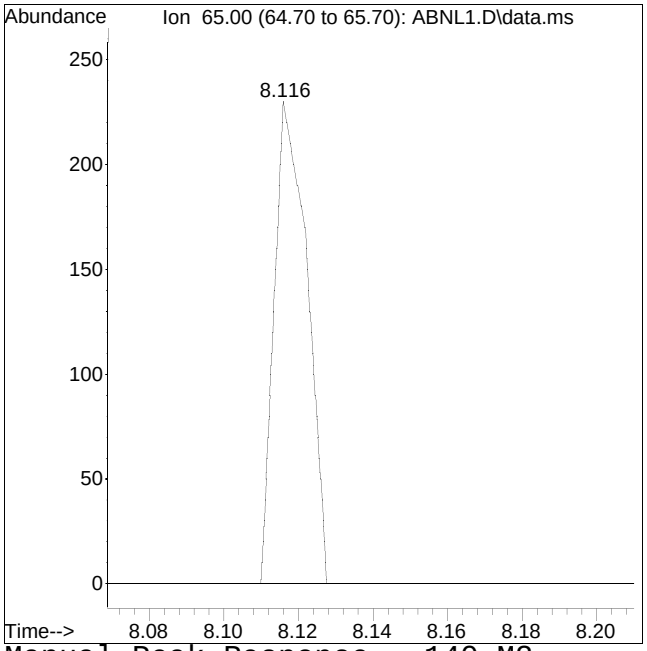
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL1.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:50 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1078 Quant Date : 7/31/2024 5:12 pm

Compound #38: 4-Chloroaniline



Original Peak Response = 0



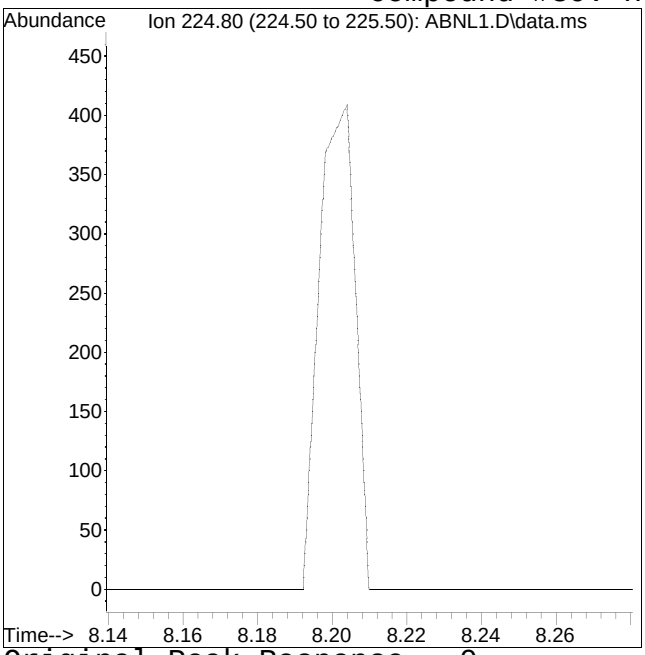
Manual Peak Response = 140 M2

M2 = Peak not found by automatic integration algorithm.

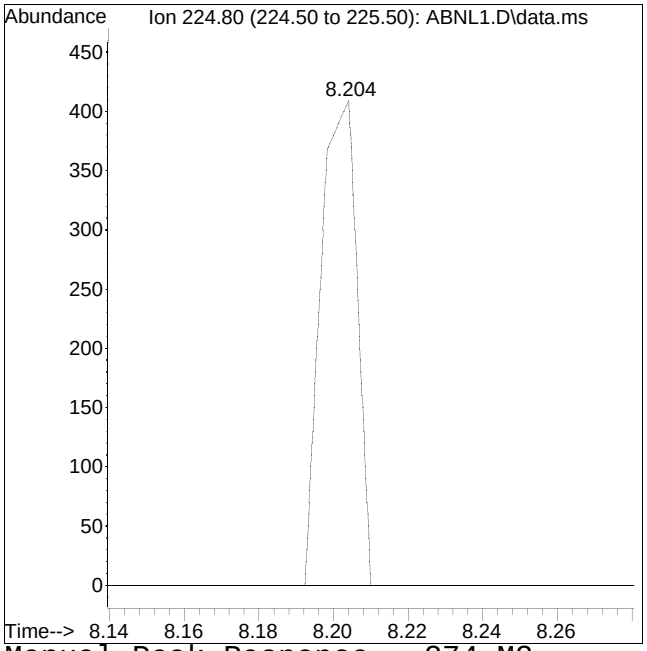
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL1.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:50 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1078 Quant Date : 7/31/2024 5:12 pm

Compound #39: Hexachlorobutadiene



Original Peak Response = 0



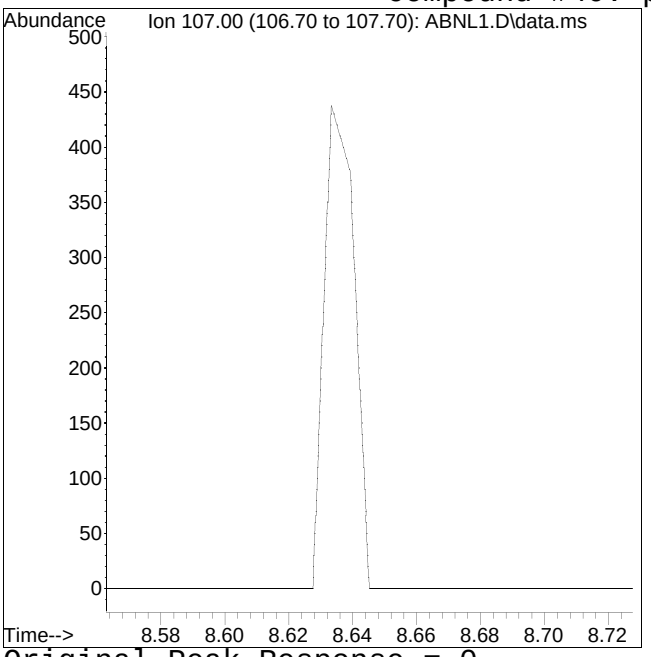
Manual Peak Response = 274 M2

M2 = Peak not found by automatic integration algorithm.

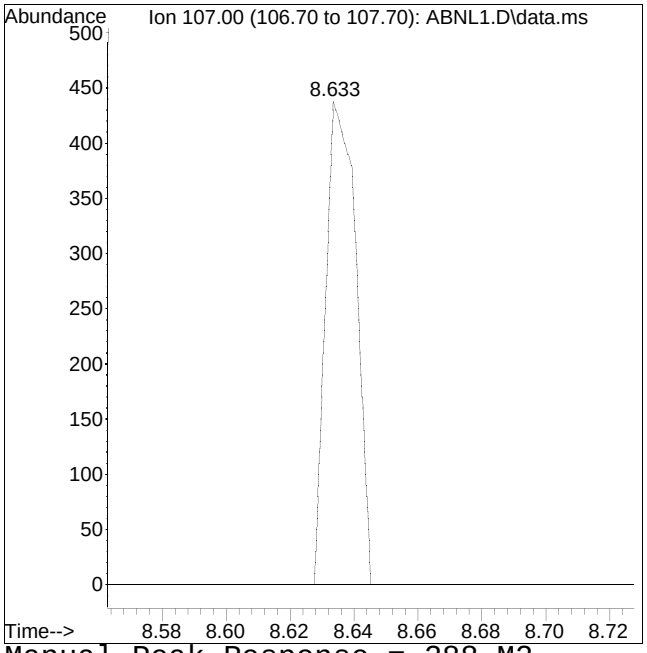
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL1.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:50 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1078 Quant Date : 7/31/2024 5:12 pm

Compound #40: p-Chloro-m-cresol



Original Peak Response = 0



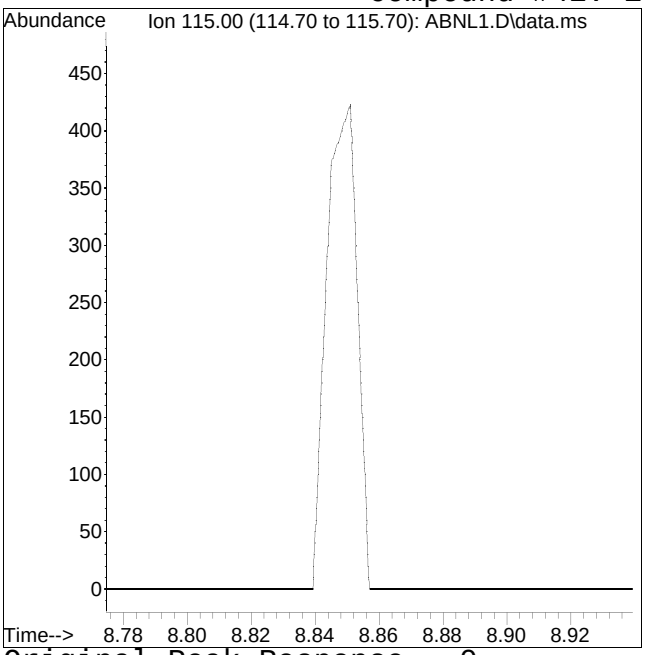
Manual Peak Response = 288 M2

M2 = Peak not found by automatic integration algorithm.

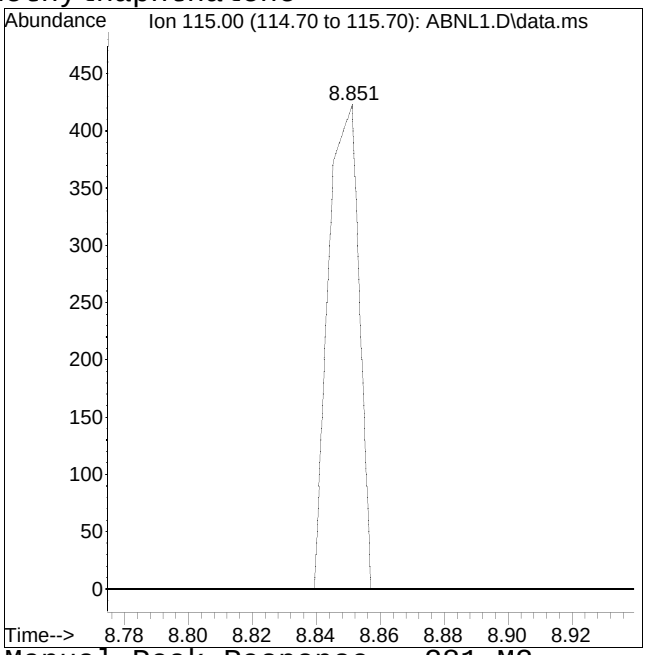
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL1.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:50 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1078 Quant Date : 7/31/2024 5:12 pm

Compound #42: 1-Methylnaphthalene



Original Peak Response = 0



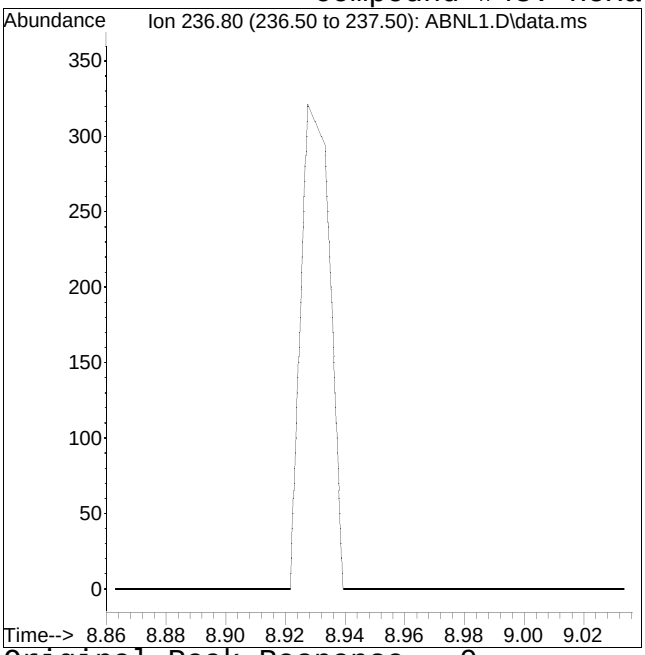
Manual Peak Response = 281 M2

M2 = Peak not found by automatic integration algorithm.

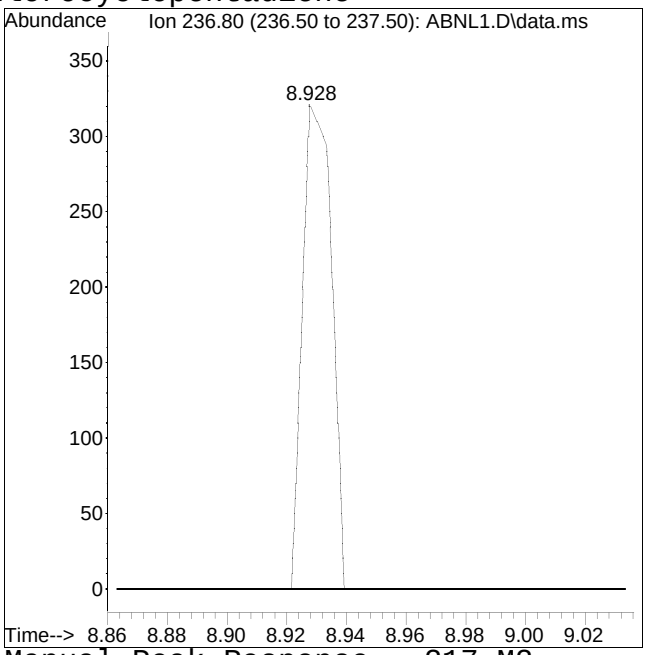
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL1.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:50 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1078 Quant Date : 7/31/2024 5:12 pm

Compound #43: Hexachlorocyclopentadiene



Original Peak Response = 0



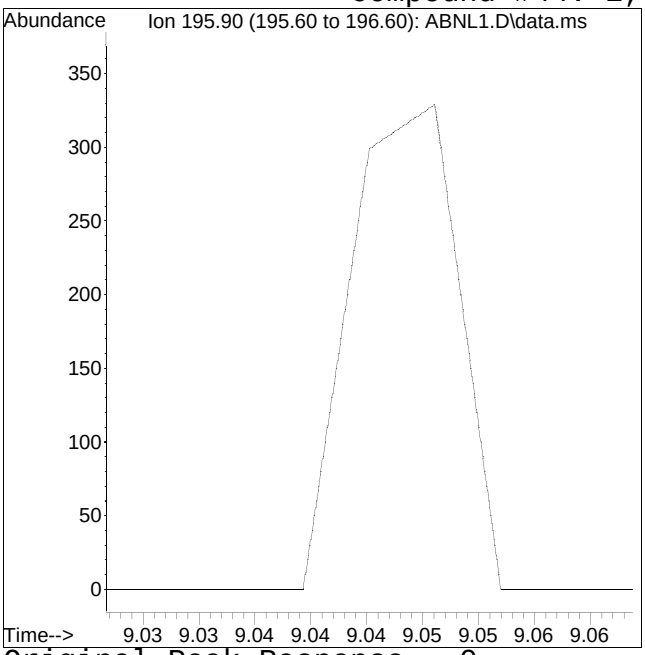
Manual Peak Response = 217 M2

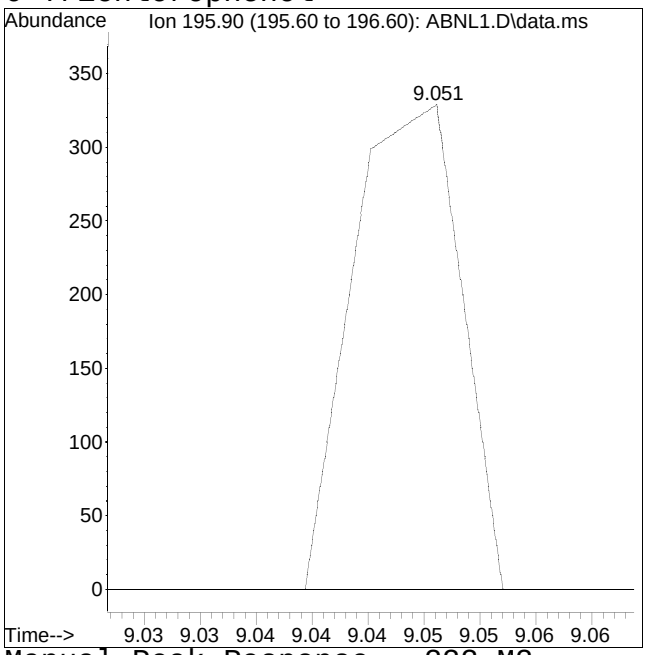
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL1.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:50 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1078 Quant Date : 7/31/2024 5:12 pm

Compound #44: 2,4,6-Trichlorophenol



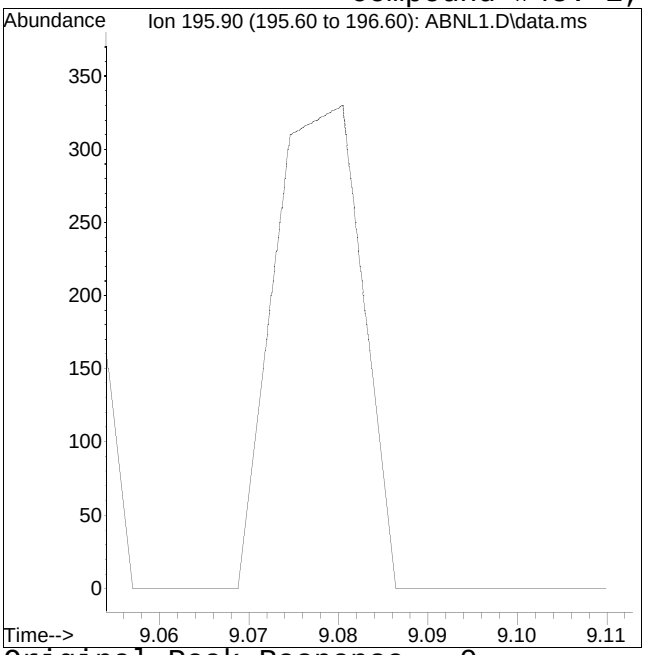


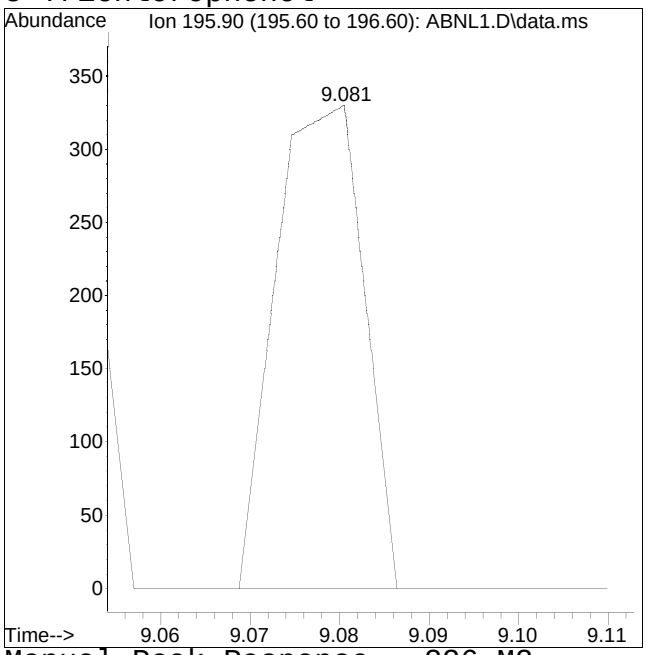
Original Peak Response = 0 Manual Peak Response = 222 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL1.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:50 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1078 Quant Date : 7/31/2024 5:12 pm

Compound #45: 2,4,5-Trichlorophenol



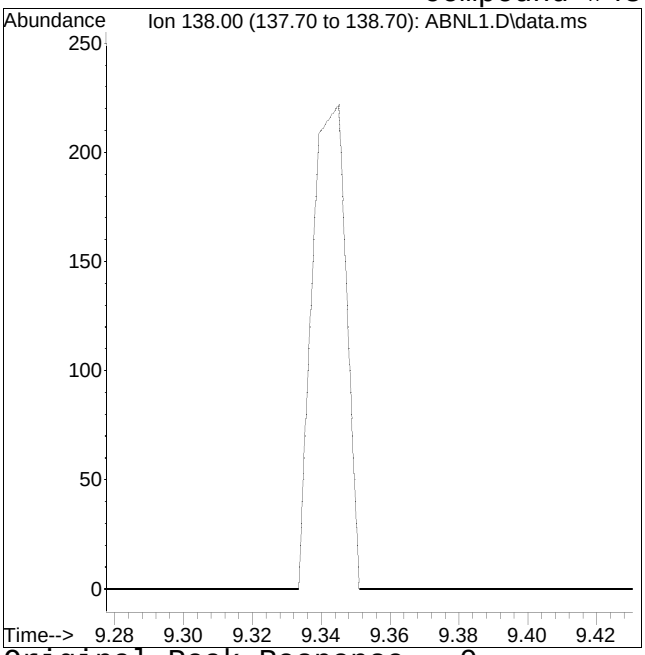


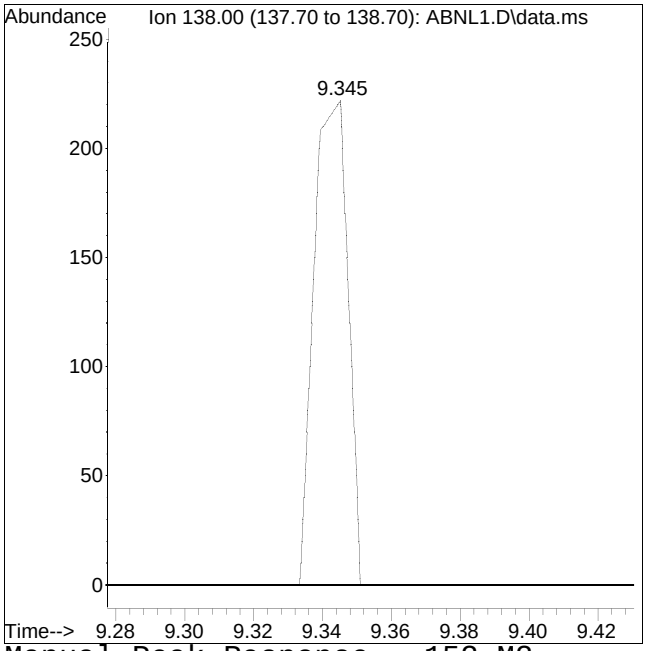
Original Peak Response = 0 Manual Peak Response = 226 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL1.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:50 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1078 Quant Date : 7/31/2024 5:12 pm

Compound #48: 2-Nitroaniline



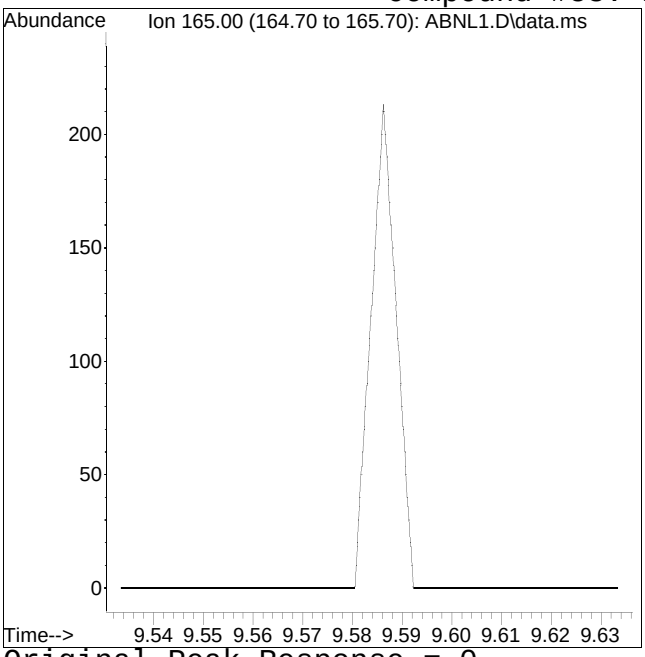


Original Peak Response = 0 Manual Peak Response = 152 M2
M2 = Peak not found by automatic integration algorithm.

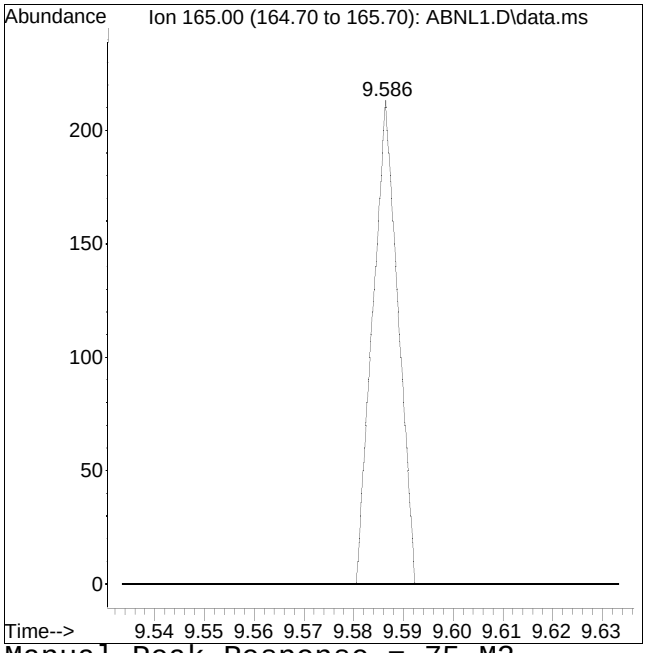
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL1.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:50 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1078 Quant Date : 7/31/2024 5:12 pm

Compound #53: 2,6-Dinitrotoluene



Original Peak Response = 0



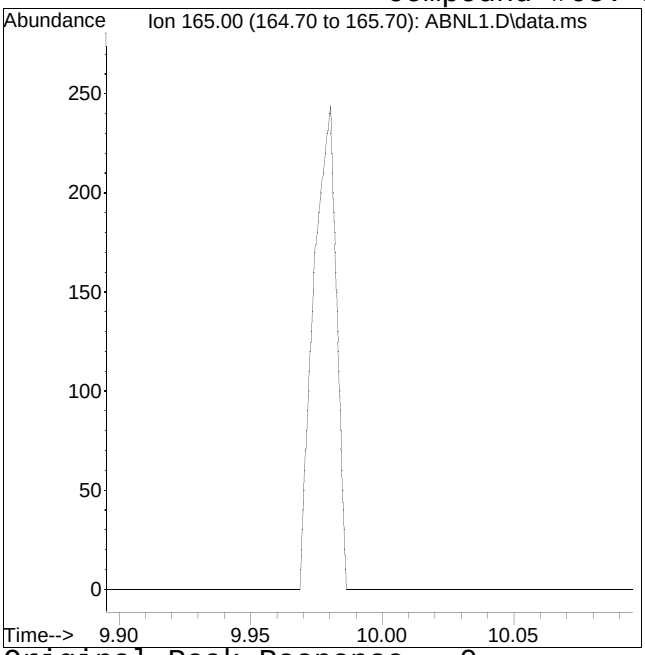
Manual Peak Response = 75 M2

M2 = Peak not found by automatic integration algorithm.

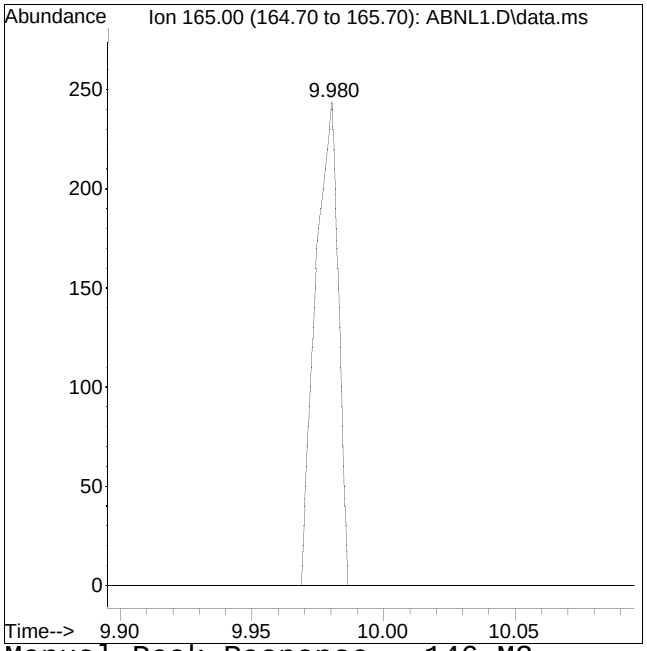
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL1.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:50 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1078 Quant Date : 7/31/2024 5:12 pm

Compound #68: 2,4-Dinitrotoluene



Original Peak Response = 0



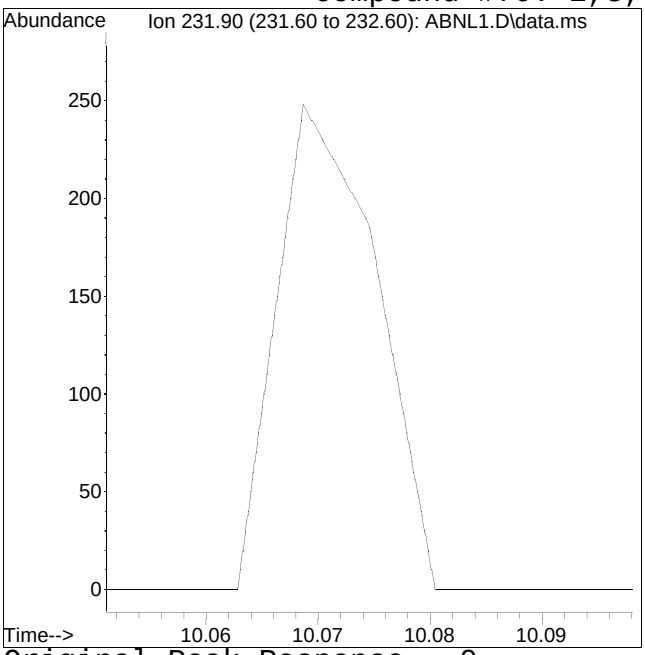
Manual Peak Response = 146 M2

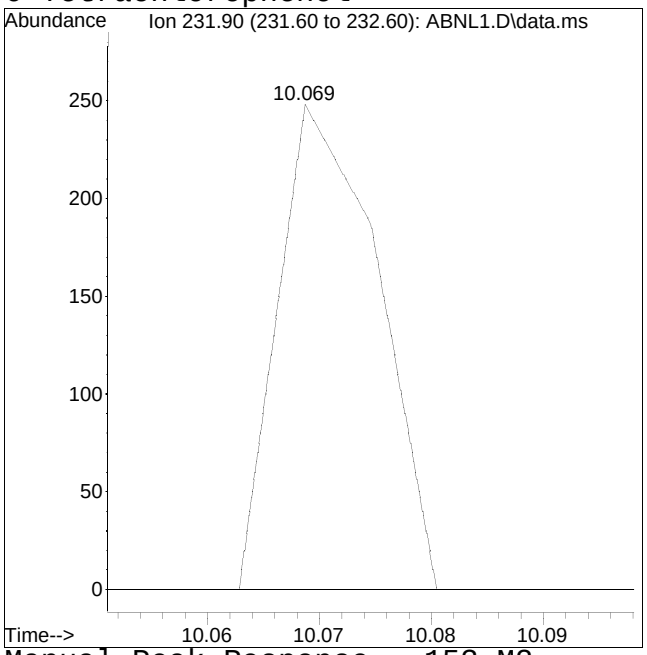
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL1.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:50 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1078 Quant Date : 7/31/2024 5:12 pm

Compound #70: 2,3,5,6-Tetrachlorophenol



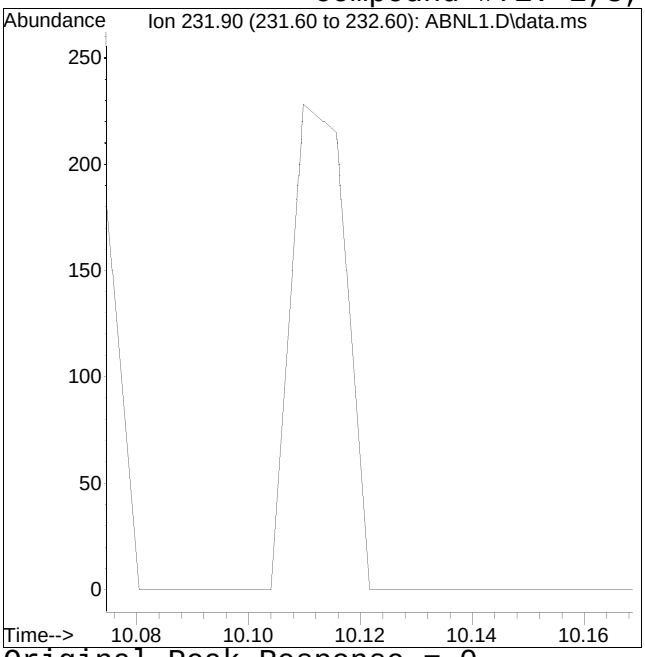


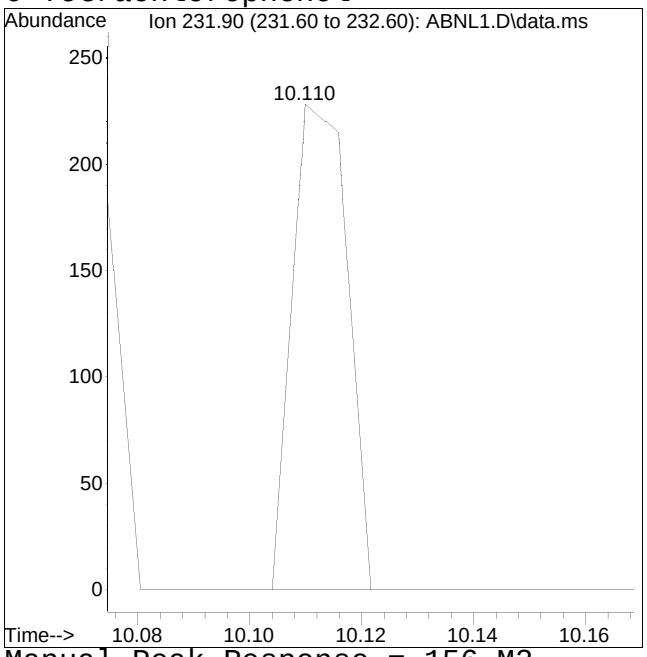
Original Peak Response = 0 Manual Peak Response = 153 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL1.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:50 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1078 Quant Date : 7/31/2024 5:12 pm

Compound #71: 2,3,4,6-Tetrachlorophenol



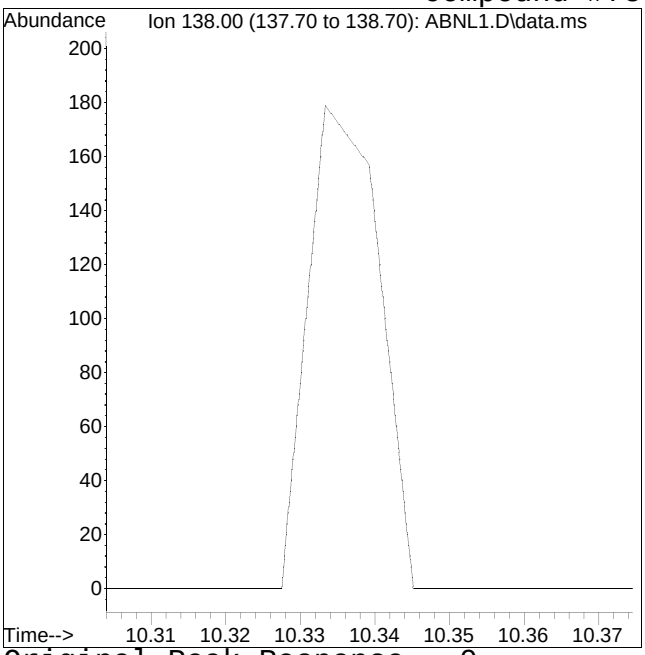


Original Peak Response = 0 Manual Peak Response = 156 M2
M2 = Peak not found by automatic integration algorithm.

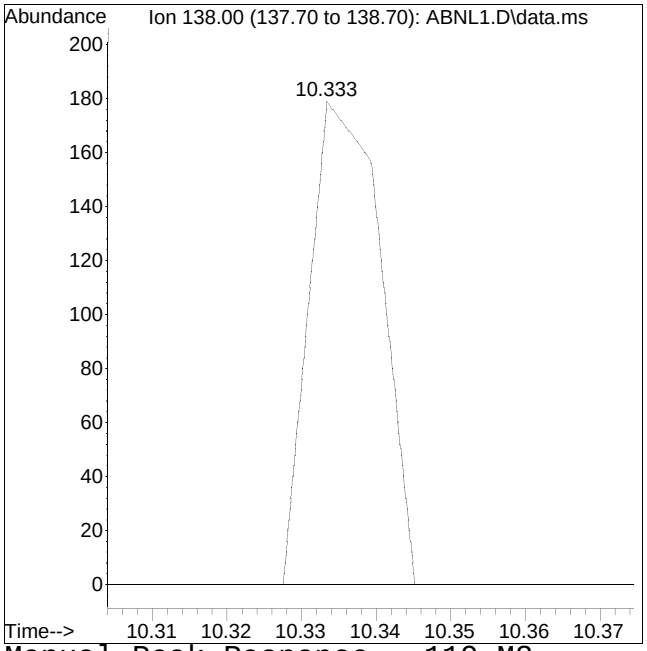
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL1.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:50 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1078 Quant Date : 7/31/2024 5:12 pm

Compound #75: 4-Nitroaniline



Original Peak Response = 0



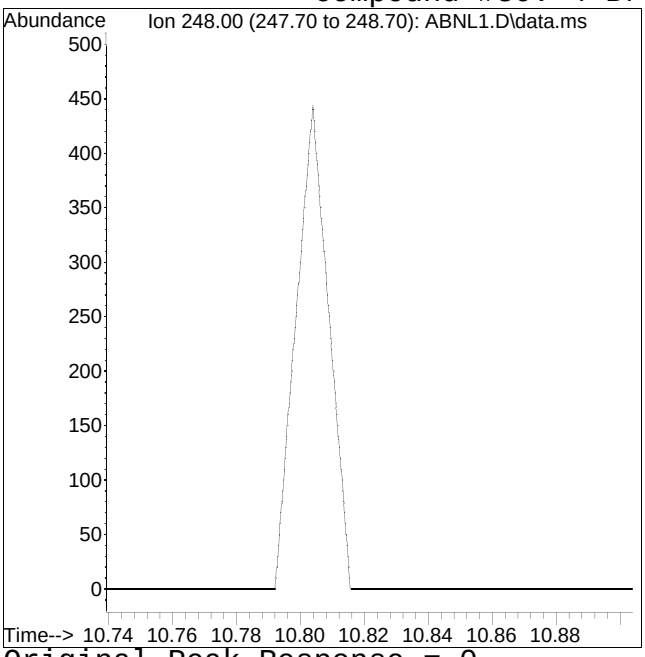
Manual Peak Response = 119 M2

M2 = Peak not found by automatic integration algorithm.

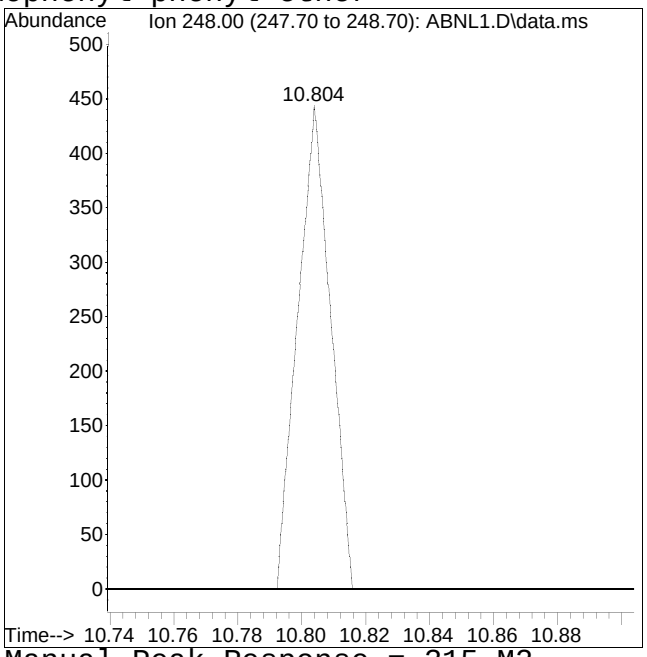
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL1.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:50 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1078 Quant Date : 7/31/2024 5:12 pm

Compound #80: 4-Bromophenyl phenyl ether



Original Peak Response = 0



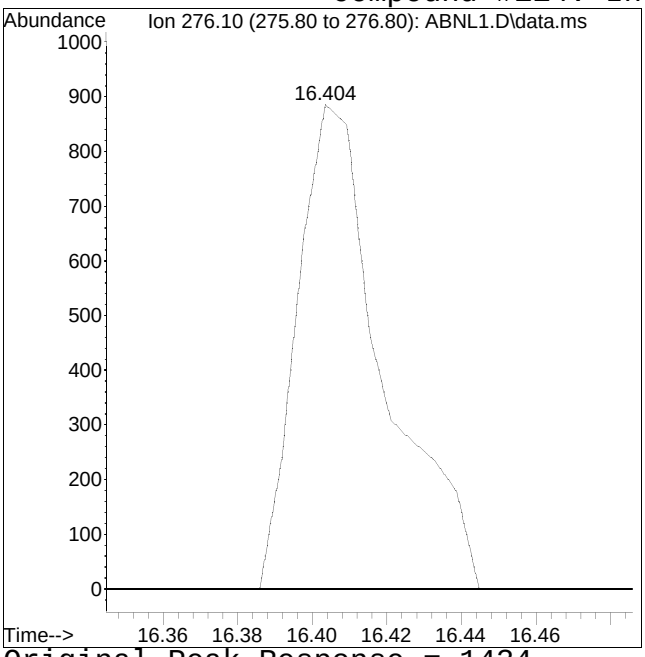
Manual Peak Response = 315 M2

M2 = Peak not found by automatic integration algorithm.

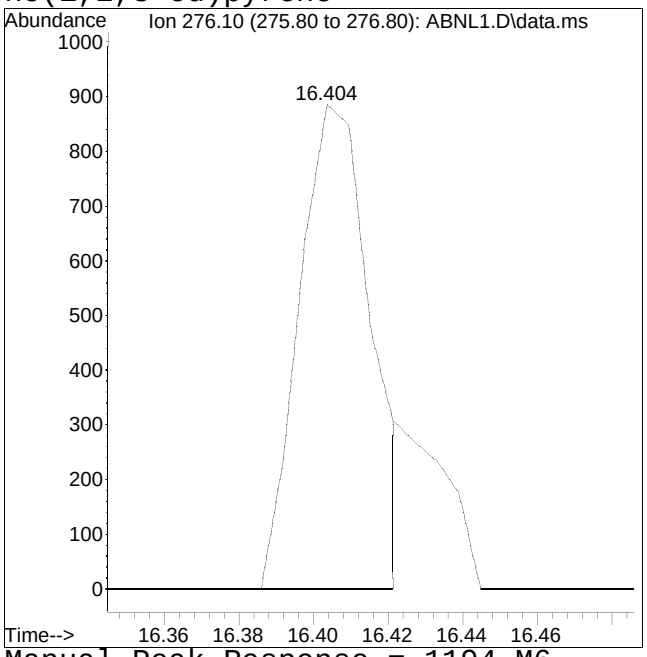
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNL1.D Operator : SV107:cmm
Date Inj'd : 7/30/2024 10:50 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1078 Quant Date : 7/31/2024 5:12 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 1434



Manual Peak Response = 1194 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : AP9L9.D
Acq On : 30 Jul 2024 11:15 pm
Operator : SV107:cmm
Sample : IL2,32,,AP9L50 Lot# 10787
Misc : WG1954578,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 31 17:40:53 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:42:06 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.610	152	17245	4.000	ug/ml		0.00
Standard Area 1 = 16322			Recovery =	105.65%			
55) IS2_Naphthalene-d8	8.016	136	65492	4.000	ug/ml		0.00
Standard Area 1 = 60303			Recovery =	108.60%			
83) IS2_Acenaphthene-d10	9.780	164	39565	4.000	ug/ml		0.00
Standard Area 1 = 35340			Recovery =	111.96%			
98) IS2_Phenanthrene-d10	11.222	188	78969	4.000	ug/ml	#	0.00
Standard Area 1 = 69901			Recovery =	112.97%			
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	6.051	105	263634	54.807	ug/ml		93
29) Acetophenone	7.098	105	474702	55.106	ug/ml	#	81
30) m-Toluidine	7.198	106	490609	61.193	ug/ml		96
31) 2-Chloroaniline	7.598	127	444052	58.107	ug/ml	#	93
56) a-Terpineol	8.092	59	305388	62.830	ug/ml	#	83
57) 3-Chloroaniline	8.104	65	151787	61.791	ug/ml		100
58) 2,6-Dichlorophenol	8.133	162	327099	62.531	ug/ml	#	86
59) 1-chloro-2-nitrobenzene	8.398	111	147739	62.830	ug/ml	#	1
60) Caprolactam	8.469	55	156367	60.010	ug/ml	#	68
61) 1,2,4,5-Tetrachloroben...	8.928	216	396136	54.471	ug/ml		98
62) Biphenyl	9.228	154	938617	55.349	ug/ml		97
84) Dichloran	10.922	206	125350	66.673	ug/ml	#	67
85) Pentachloronitrobenzene	11.074	237	111491	61.308	ug/ml	#	84
99) Diphenamid	12.133	167	631085	69.089	ug/ml	#	80

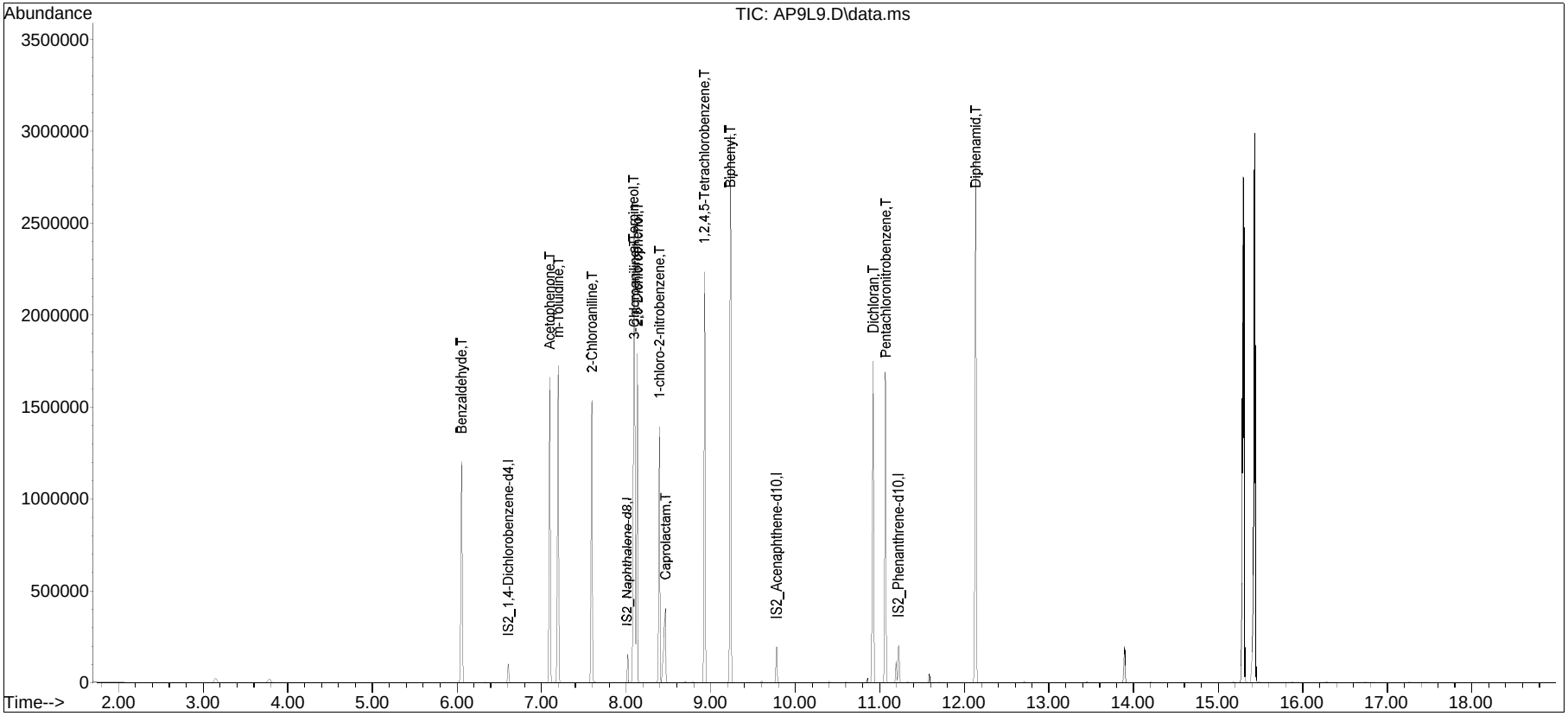
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : AP9L9.D
Acq On : 30 Jul 2024 11:15 pm
Operator : SV107:cmm
Sample : IL2,32,,AP9L50 Lot# 10787
Misc : WG1954578,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 31 17:40:53 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:42:06 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240730ical\	QMethod	: FS240730SV107RVT.m
Data File	: AP9L9.D	Operator	: SV107:cmm
Date Inj'd	: 7/30/2024 11:15 pm	Instrument	: SV107
Sample	: IL2,32,,AP9L50 Lot# 10787	Quant Date	: 7/31/2024 5:42 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : AP9L8.D
Acq On : 30 Jul 2024 11:40 pm
Operator : SV107:cmm
Sample : IL3,32,,AP9L25 Lot# 10788
Misc : WG1954578,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 31 17:40:42 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:41:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.610	152	15814	4.000	ug/ml		0.00
Standard Area 1 = 16322			Recovery =	96.89%			
55) IS2_Naphthalene-d8	8.016	136	60667	4.000	ug/ml		0.00
Standard Area 1 = 60303			Recovery =	100.60%			
83) IS2_Acenaphthene-d10	9.780	164	35729	4.000	ug/ml		0.00
Standard Area 1 = 35340			Recovery =	101.10%			
98) IS2_Phenanthrene-d10	11.222	188	73449	4.000	ug/ml	#	0.00
Standard Area 1 = 69901			Recovery =	105.08%			
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	6.045	105	118455	26.854	ug/ml		93
29) Acetophenone	7.092	105	212754	26.933	ug/ml	#	82
30) m-Toluidine	7.192	106	218403	29.706	ug/ml		95
31) 2-Chloroaniline	7.592	127	196184	27.995	ug/ml	#	93
56) a-Terpineol	8.086	59	136303	30.273	ug/ml	#	85
57) 3-Chloroaniline	8.098	65	67744	29.771	ug/ml		99
58) 2,6-Dichlorophenol	8.128	162	144716	29.865	ug/ml	#	87
59) 1-chloro-2-nitrobenzene	8.392	111	66314	30.445	ug/ml	#	1
60) Caprolactam	8.451	55	72379	29.987	ug/ml	#	68
61) 1,2,4,5-Tetrachloroben...	8.928	216	173444	25.746	ug/ml		97
62) Biphenyl	9.228	154	421843	26.854	ug/ml		98
84) Dichloran	10.916	206	55341	32.596	ug/ml	#	67
85) Pentachloronitrobenzene	11.069	237	49245	29.987	ug/ml	#	84
99) Diphenamid	12.133	167	286067	33.671	ug/ml	#	80

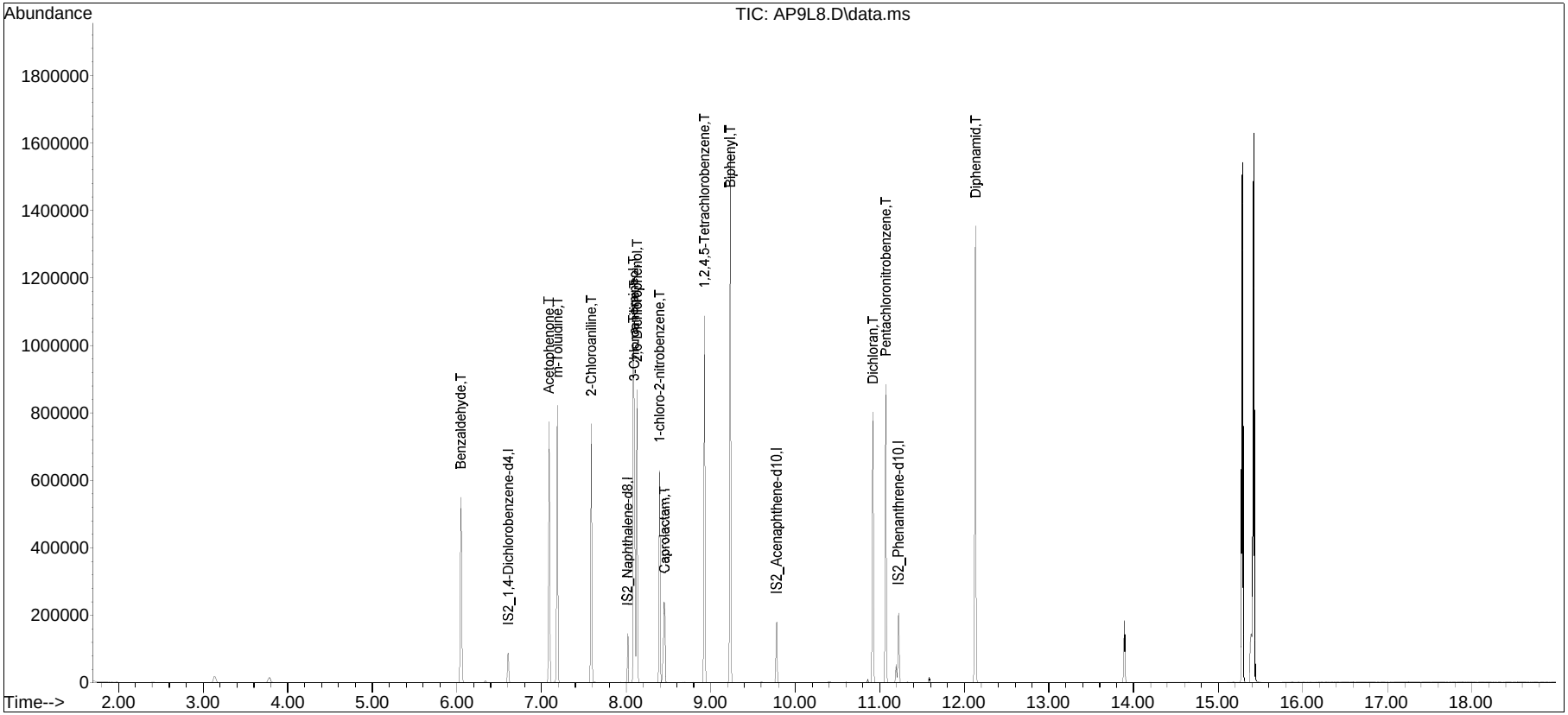
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : AP9L8.D
Acq On : 30 Jul 2024 11:40 pm
Operator : SV107:cmm
Sample : IL3,32,,AP9L25 Lot# 10788
Misc : WG1954578,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 31 17:40:42 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:41:56 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240730ical\	QMethod	: FS240730SV107RVT.m
Data File	: AP9L8.D	Operator	: SV107:cmm
Date Inj'd	: 7/30/2024 11:40 pm	Instrument	: SV107
Sample	: IL3,32,,AP9L25 Lot# 10788	Quant Date	: 7/31/2024 5:41 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : AP9L7.D
Acq On : 31 Jul 2024 12:06 am
Operator : SV107:cmm
Sample : IL4,32,,AP9L10 Lot# 10789
Misc : WG1954578,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 31 17:40:32 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:41:46 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.610	152	16008	4.000	ug/ml		0.00
Standard Area 1 = 16322			Recovery =	98.08%			
55) IS2_Naphthalene-d8	8.016	136	60564	4.000	ug/ml		0.00
Standard Area 1 = 60303			Recovery =	100.43%			
83) IS2_Acenaphthene-d10	9.780	164	35491	4.000	ug/ml		0.00
Standard Area 1 = 35340			Recovery =	100.43%			
98) IS2_Phenanthrene-d10	11.221	188	73796	4.000	ug/ml	#	0.00
Standard Area 1 = 69901			Recovery =	105.57%			
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	6.051	105	47039	10.535	ug/ml		94
29) Acetophenone	7.092	105	83968	10.501	ug/ml	#	82
30) m-Toluidine	7.192	106	84229	11.318	ug/ml		95
31) 2-Chloroaniline	7.592	127	76539	10.790	ug/ml	#	93
56) a-Terpineol	8.086	59	51091	11.367	ug/ml	#	85
57) 3-Chloroaniline	8.098	65	27088	11.924	ug/ml		93
58) 2,6-Dichlorophenol	8.128	162	54601	11.287	ug/ml	#	88
59) 1-chloro-2-nitrobenzene	8.392	111	25606	11.776	ug/ml	#	1
60) Caprolactam	8.439	55	27706	11.498	ug/ml	#	69
61) 1,2,4,5-Tetrachloroben...	8.927	216	68823	10.234	ug/ml		97
62) Biphenyl	9.227	154	160570	10.239	ug/ml		98
84) Dichloran	10.916	206	18795	11.145	ug/ml	#	70
85) Pentachloronitrobenzene	11.069	237	17688	10.843	ug/ml	#	85
99) Diphenamid	12.127	167	102175	11.970	ug/ml	#	80

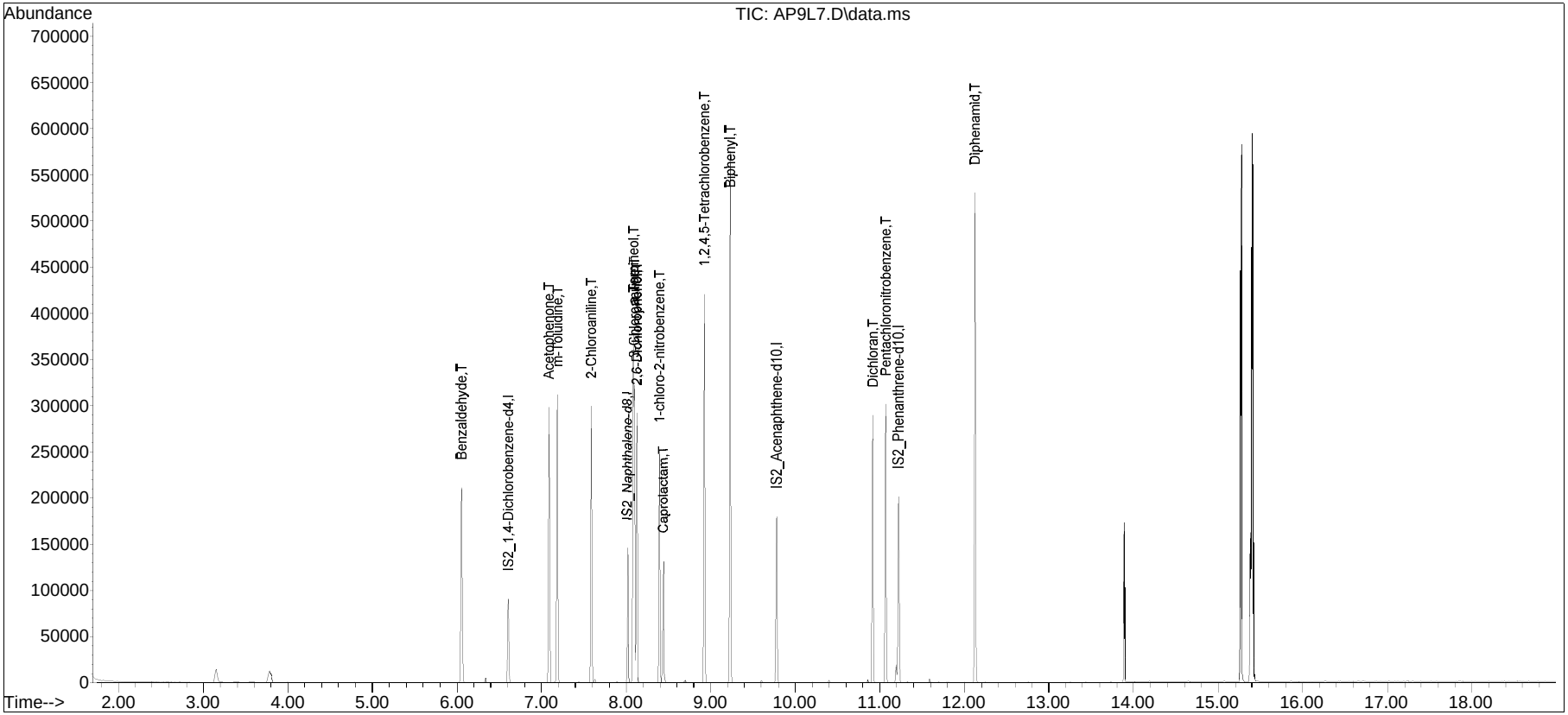
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : AP9L7.D
Acq On : 31 Jul 2024 12:06 am
Operator : SV107:cmm
Sample : IL4,32,,AP9L10 Lot# 10789
Misc : WG1954578,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 31 17:40:32 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:41:46 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240730ical\	QMethod	: FS240730SV107RVT.m
Data File	: AP9L7.D	Operator	: SV107:cmm
Date Inj'd	: 7/31/2024 12:06 am	Instrument	: SV107
Sample	: IL4,32,,AP9L10 Lot# 10789	Quant Date	: 7/31/2024 5:41 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : AP9L6.D
Acq On : 31 Jul 2024 12:31 am
Operator : SV107:cmm
Sample : IL5,32,,AP9L5 Lot# 10790
Misc : WG1954578,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 31 17:40:23 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:41:36 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.610	152	16322	4.000	ug/ml	0.00
Standard Area 1 = 16322			Recovery =	100.00%		
55) IS2_Naphthalene-d8	8.016	136	60303	4.000	ug/ml	0.00
Standard Area 1 = 60303			Recovery =	100.00%		
83) IS2_Acenaphthene-d10	9.780	164	35340	4.000	ug/ml	0.00
Standard Area 1 = 35340			Recovery =	100.00%		
98) IS2_Phenanthrene-d10	11.221	188	69901	4.000	ug/ml #	0.00
Standard Area 1 = 69901			Recovery =	100.00%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	6.051	105	22464	4.934	ug/ml	93
29) Acetophenone	7.092	105	39512	4.846	ug/ml#	82
30) m-Toluidine	7.192	106	38806	5.114	ug/ml	94
31) 2-Chloroaniline	7.592	127	36042	4.983	ug/ml#	93
56) a-Terpineol	8.080	59	23025	5.145	ug/ml#	82
57) 3-Chloroaniline	8.098	65	12425	5.493	ug/ml	95
58) 2,6-Dichlorophenol	8.127	162	25046	5.200	ug/ml#	89
59) 1-chloro-2-nitrobenzene	8.392	111	11592	5.354	ug/ml#	1
60) Caprolactam	8.427	55	11384	4.745	ug/ml#	69
61) 1,2,4,5-Tetrachloroben...	8.927	216	32039	4.785	ug/ml	97
62) Biphenyl	9.227	154	73672	4.718	ug/ml	98
84) Dichloran	10.916	206	7243	4.313	ug/ml#	72
85) Pentachloronitrobenzene	11.068	237	7329	4.512	ug/ml#	84
99) Diphenamid	12.127	167	42300	5.232	ug/ml#	81

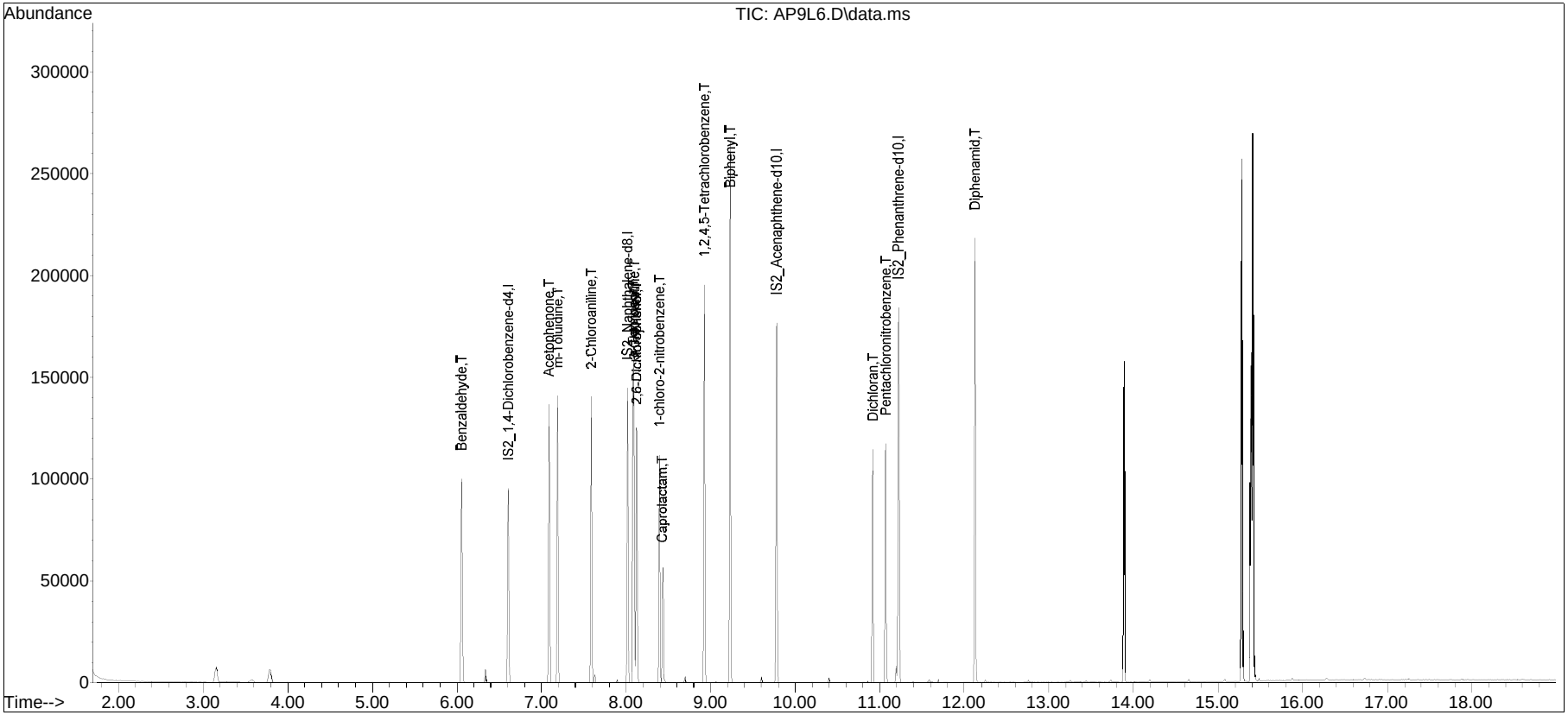
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : AP9L6.D
Acq On : 31 Jul 2024 12:31 am
Operator : SV107:cmm
Sample : IL5,32,,AP9L5 Lot# 10790
Misc : WG1954578,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 31 17:40:23 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:41:36 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240730ical\	QMethod	: FS240730SV107RVT.m
Data File	: AP9L6.D	Operator	: SV107:cmm
Date Inj'd	: 7/31/2024 12:31 am	Instrument	: SV107
Sample	: IL5,32,,AP9L5 Lot# 10790	Quant Date	: 7/31/2024 5:41 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : AP9L5.D
Acq On : 31 Jul 2024 12:57 am
Operator : SV107:cmm
Sample : IL6,32,,AP9L2.5 Lot# 10791
Misc : WG1954578,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 31 17:40:13 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:41:27 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.610	152	15141	4.000	ug/ml		0.00
Standard Area 1 = 16322			Recovery =	92.76%			
55) IS2_Naphthalene-d8	8.016	136	56183	4.000	ug/ml		0.00
Standard Area 1 = 60303			Recovery =	93.17%			
83) IS2_Acenaphthene-d10	9.781	164	32860	4.000	ug/ml		0.00
Standard Area 1 = 35340			Recovery =	92.98%			
98) IS2_Phenanthrene-d10	11.222	188	68379	4.000	ug/ml	#	0.00
Standard Area 1 = 69901			Recovery =	97.82%			
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	6.051	105	10205	2.416	ug/ml		95
29) Acetophenone	7.093	105	17989	2.378	ug/ml	#	82
30) m-Toluidine	7.192	106	17389	2.470	ug/ml		96
31) 2-Chloroaniline	7.592	127	16143	2.406	ug/ml	#	93
56) a-Terpineol	8.081	59	9879	2.369	ug/ml	#	78
57) 3-Chloroaniline	8.098	65	5464	2.593	ug/ml		97
58) 2,6-Dichlorophenol	8.122	162	11053	2.463	ug/ml	#	89
59) 1-chloro-2-nitrobenzene	8.392	111	5291	2.623	ug/ml	#	1
60) Caprolactam	8.428	55	4688	2.097	ug/ml	#	71
61) 1,2,4,5-Tetrachloroben...	8.928	216	14984	2.402	ug/ml		97
62) Biphenyl	9.228	154	34805	2.392	ug/ml		99
84) Dichloran	10.916	206	2910	1.864	ug/ml	#	73
85) Pentachloronitrobenzene	11.069	237	3267	2.163	ug/ml		85
99) Diphenamid	12.127	167	18958	2.397	ug/ml	#	80

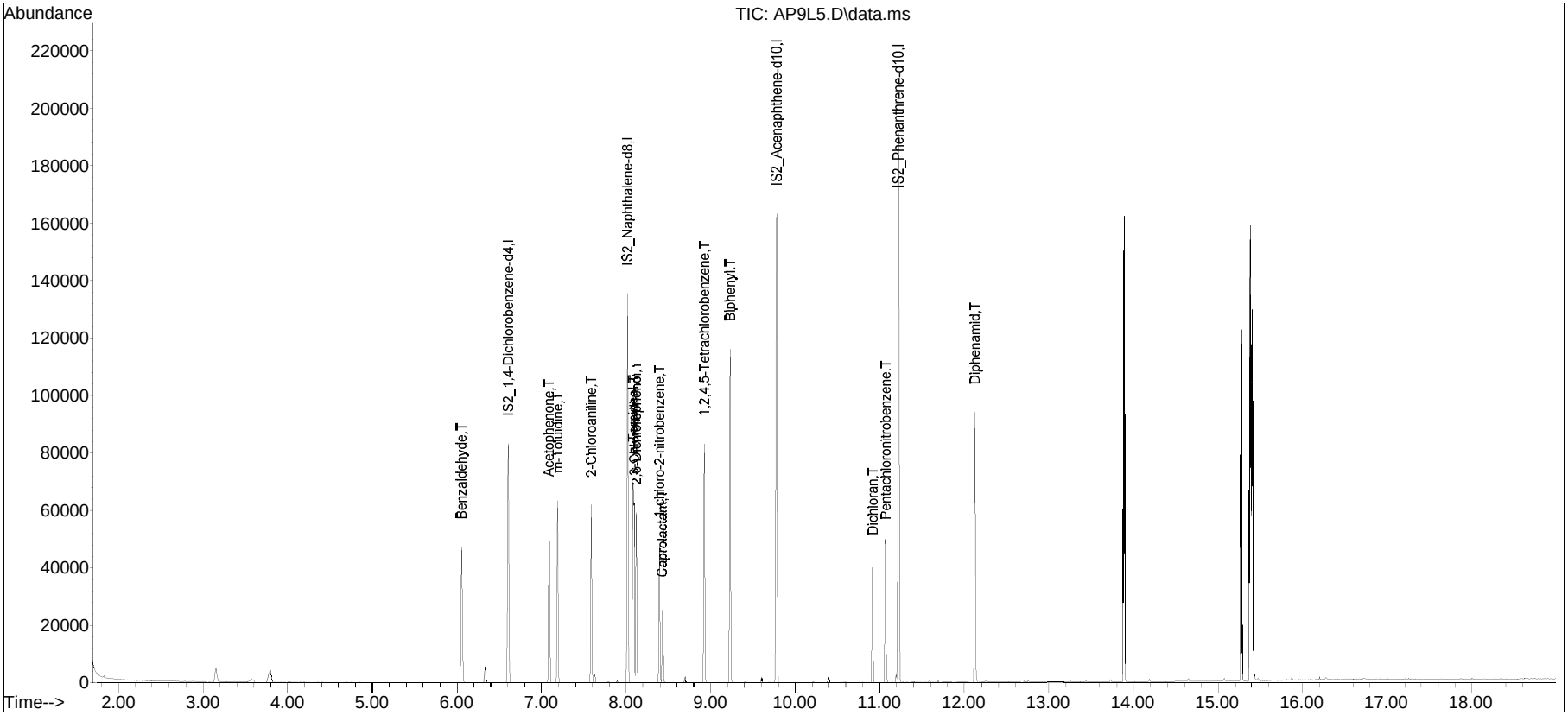
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : AP9L5.D
Acq On : 31 Jul 2024 12:57 am
Operator : SV107:cmm
Sample : IL6,32,,AP9L2.5 Lot# 10791
Misc : WG1954578,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 31 17:40:13 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:41:27 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240730ical\	QMethod	: FS240730SV107RVT.m
Data File	: AP9L5.D	Operator	: SV107:cmm
Date Inj'd	: 7/31/2024 12:57 am	Instrument	: SV107
Sample	: IL6,32,,AP9L2.5 Lot# 10791	Quant Date	: 7/31/2024 5:41 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : AP9L4.D
Acq On : 31 Jul 2024 1:22 am
Operator : SV107:cmm
Sample : IL7,32,,AP9L1 Lot# 10792
Misc : WG1954578,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 31 17:40:04 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:41:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
27) IS2_1,4-Dichlorobenzen...	6.610	152	16317	4.000 ug/ml	0.00
Standard Area 1 = 16322			Recovery =	99.97%	
55) IS2_Naphthalene-d8	8.016	136	61673	4.000 ug/ml	0.00
Standard Area 1 = 60303			Recovery =	102.27%	
83) IS2_Acenaphthene-d10	9.781	164	35536	4.000 ug/ml	0.00
Standard Area 1 = 35340			Recovery =	100.55%	
98) IS2_Phenanthrene-d10	11.222	188	72875	4.000 ug/ml #	0.00
Standard Area 1 = 69901			Recovery =	104.25%	
System Monitoring Compounds					
Target Compounds					Qvalue
28) Benzaldehyde	6.051	105	4619	1.015 ug/ml	96
29) Acetophenone	7.093	105	8263	1.014 ug/ml#	82
30) m-Toluidine	7.192	106	7304	0.963 ug/ml	96
31) 2-Chloroaniline	7.592	127	7193	0.995 ug/ml#	92
56) a-Terpineol	8.081	59	4317	0.943 ug/ml#	80
57) 3-Chloroaniline	8.098	65	2315	1.001 ug/ml	96
58) 2,6-Dichlorophenol	8.122	162	4751	0.964 ug/ml#	89
59) 1-chloro-2-nitrobenzene	8.392	111	2267	1.024 ug/ml#	1
60) Caprolactam	8.428	55	1626	0.663 ug/ml#	71
61) 1,2,4,5-Tetrachloroben...	8.928	216	6617	0.966 ug/ml	97
62) Biphenyl	9.228	154	15316	0.959 ug/ml	99
84) Dichloran	10.916	206	1081	0.640 ug/ml#	76
85) Pentachloronitrobenzene	11.063	237	1180	0.722 ug/ml	84
99) Diphenamid	12.127	167	7344	0.871 ug/ml#	80

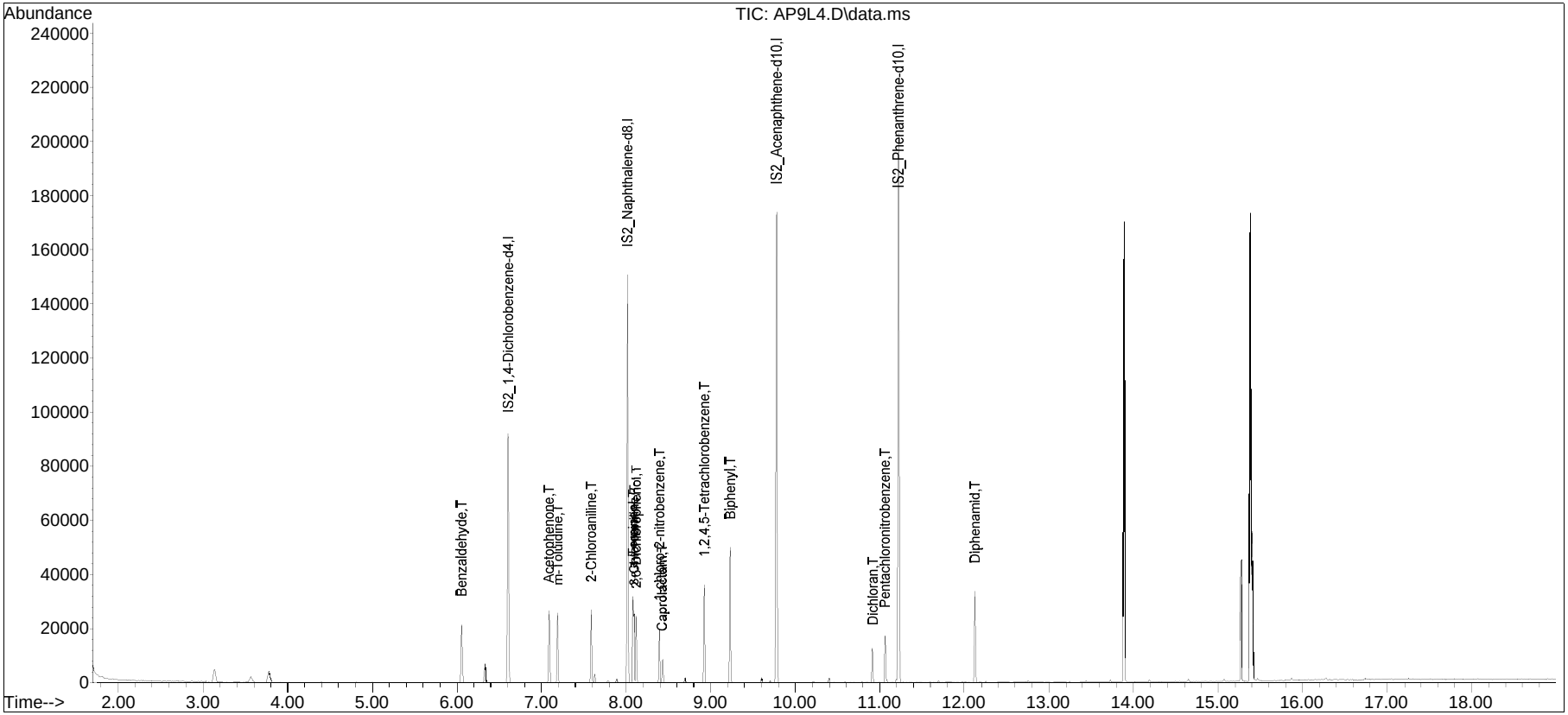
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : AP9L4.D
Acq On : 31 Jul 2024 1:22 am
Operator : SV107:cmm
Sample : IL7,32,,AP9L1 Lot# 10792
Misc : WG1954578,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 31 17:40:04 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:41:18 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240730ical\	QMethod	: FS240730SV107RVT.m
Data File	: AP9L4.D	Operator	: SV107:cmm
Date Inj'd	: 7/31/2024 1:22 am	Instrument	: SV107
Sample	: IL7,32,,AP9L1 Lot# 10792	Quant Date	: 7/31/2024 5:41 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : AP9L3.D
Acq On : 31 Jul 2024 1:47 am
Operator : SV107:cmm
Sample : IL8,32,,AP9L0.5 Lot# 10793
Misc : WG1954578,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 31 17:39:55 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:41:09 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.610	152	16748	4.000	ug/ml		0.00
Standard Area 1 = 16322			Recovery =	102.61%			
55) IS2_Naphthalene-d8	8.016	136	62565	4.000	ug/ml		0.00
Standard Area 1 = 60303			Recovery =	103.75%			
83) IS2_Acenaphthene-d10	9.780	164	36357	4.000	ug/ml		0.00
Standard Area 1 = 35340			Recovery =	102.88%			
98) IS2_Phenanthrene-d10	11.222	188	74486	4.000	ug/ml	#	0.00
Standard Area 1 = 69901			Recovery =	106.56%			
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	6.057	105	2376	0.509	ug/ml		93
29) Acetophenone	7.098	105	4149	0.496	ug/ml	#	80
30) m-Toluidine	7.192	106	3612	0.464	ug/ml		95
31) 2-Chloroaniline	7.592	127	3594	0.484	ug/ml	#	91
56) a-Terpineol	8.081	59	2106	0.454	ug/ml	#	78
57) 3-Chloroaniline	8.098	65	1178	0.502	ug/ml		97
58) 2,6-Dichlorophenol	8.122	162	2342	0.469	ug/ml	#	89
59) 1-chloro-2-nitrobenzene	8.392	111	1067	0.475	ug/ml	#	1
60) Caprolactam	8.428	55	730	0.293	ug/ml	#	43
61) 1,2,4,5-Tetrachloroben...	8.928	216	3456	0.497	ug/ml	#	96
62) Biphenyl	9.228	154	8166	0.504	ug/ml		100
84) Dichloran	10.916	206	469	0.271	ug/ml		84
85) Pentachloronitrobenzene	11.069	237	574	0.343	ug/ml	#	53
99) Diphenamid	12.127	167	3710	0.431	ug/ml	#	80

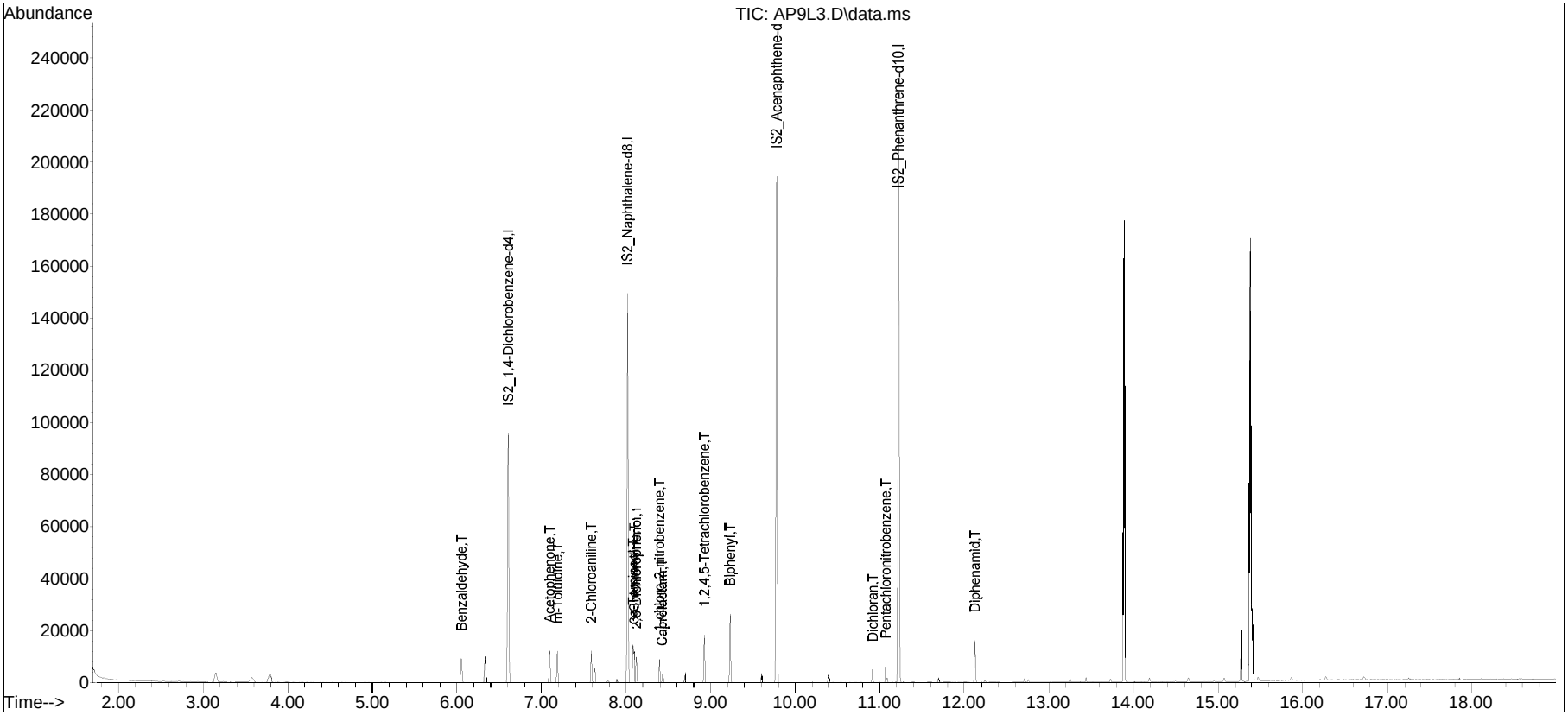
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : AP9L3.D
Acq On : 31 Jul 2024 1:47 am
Operator : SV107:cmm
Sample : IL8,32,,AP9L0.5 Lot# 10793
Misc : WG1954578,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 31 17:39:55 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:41:09 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240730ical\	QMethod	: FS240730SV107RVT.m
Data File	: AP9L3.D	Operator	: SV107:cmm
Date Inj'd	: 7/31/2024 1:47 am	Instrument	: SV107
Sample	: IL8,32,,AP9L0.5 Lot# 10793	Quant Date	: 7/31/2024 5:41 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : AP9L2.D
Acq On : 31 Jul 2024 2:13 am
Operator : SV107:cmm
Sample : IL9,32,,AP9L0.2 Lot# 10794
Misc : WG1954578,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 31 17:39:46 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:41:00 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
27) IS2_1,4-Dichlorobenzen...	6.610	152	15272	4.000 ug/ml	0.00
Standard Area 1 = 16322			Recovery =	93.57%	
55) IS2_Naphthalene-d8	8.016	136	56262	4.000 ug/ml	0.00
Standard Area 1 = 60303			Recovery =	93.30%	
83) IS2_Acenaphthene-d10	9.780	164	32334	4.000 ug/ml	0.00
Standard Area 1 = 35340			Recovery =	91.49%	
98) IS2_Phenanthrene-d10	11.221	188	64703	4.000 ug/ml	# 0.00
Standard Area 1 = 69901			Recovery =	92.56%	
System Monitoring Compounds					
Target Compounds					Qvalue
28) Benzaldehyde	6.057	105	850	0.200 ug/ml	96
29) Acetophenone	7.098	105	1493	0.196 ug/ml#	39
30) m-Toluidine	7.192	106	1238	0.174 ug/ml#	89
31) 2-Chloroaniline	7.592	127	1205	0.178 ug/ml#	42
56) a-Terpineol	8.080	59	785	0.188 ug/ml	90
57) 3-Chloroaniline	8.098	65	384M2	0.182 ug/ml	
58) 2,6-Dichlorophenol	8.128	162	779	0.173 ug/ml#	87
59) 1-chloro-2-nitrobenzene	8.392	111	359M2	0.178 ug/ml	
60) Caprolactam	0.000		0	N.D.	
61) 1,2,4,5-Tetrachloroben...	8.927	216	1225	0.196 ug/ml#	88
62) Biphenyl	9.227	154	2938	0.202 ug/ml	99
84) Dichloran	10.916	206	136M2	0.089 ug/ml	
85) Pentachloronitrobenzene	11.063	237	150M2	0.101 ug/ml	
99) Diphenamid	12.127	167	1095	0.146 ug/ml	89

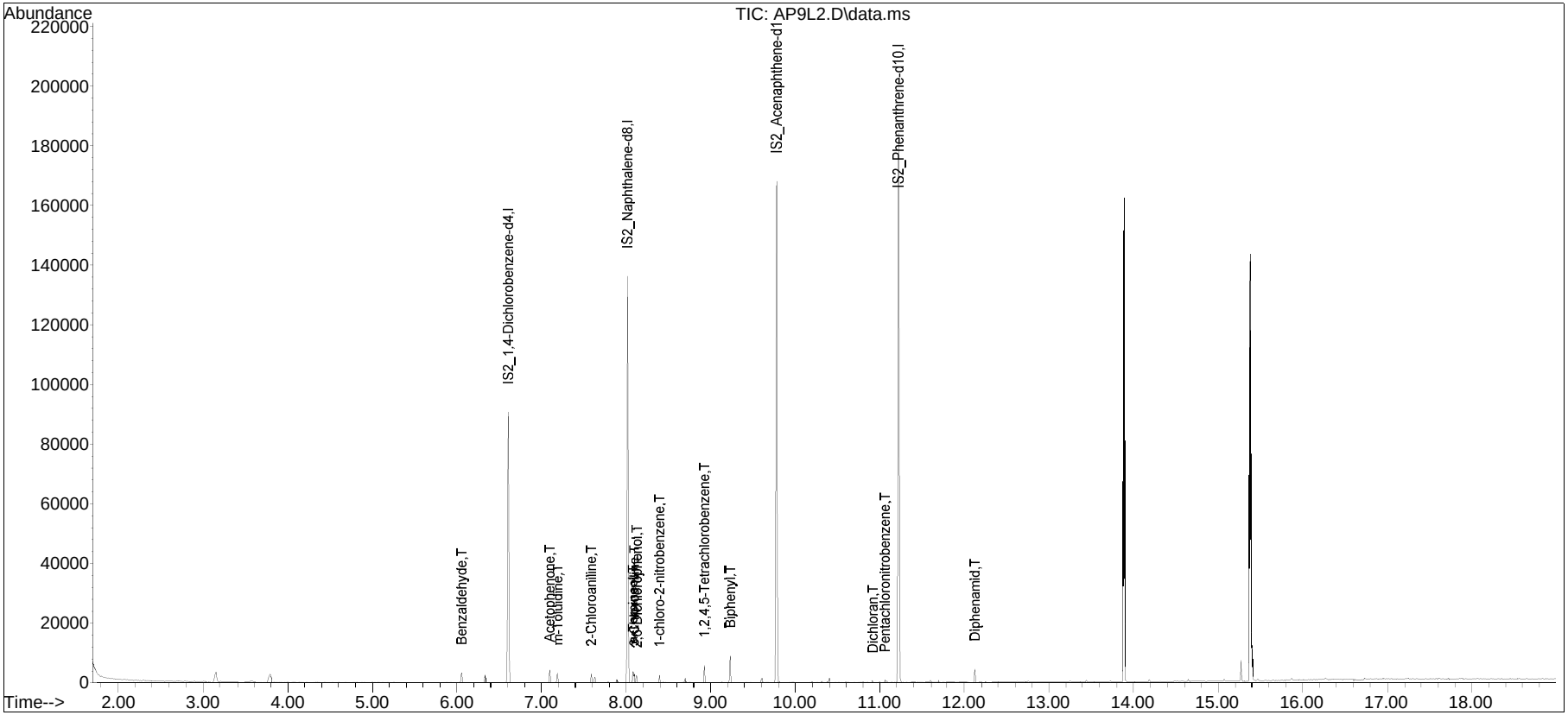
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : AP9L2.D
Acq On : 31 Jul 2024 2:13 am
Operator : SV107:cmm
Sample : IL9,32,,AP9L0.2 Lot# 10794
Misc : WG1954578,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 31 17:39:46 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:41:00 2024
Response via : Initial Calibration

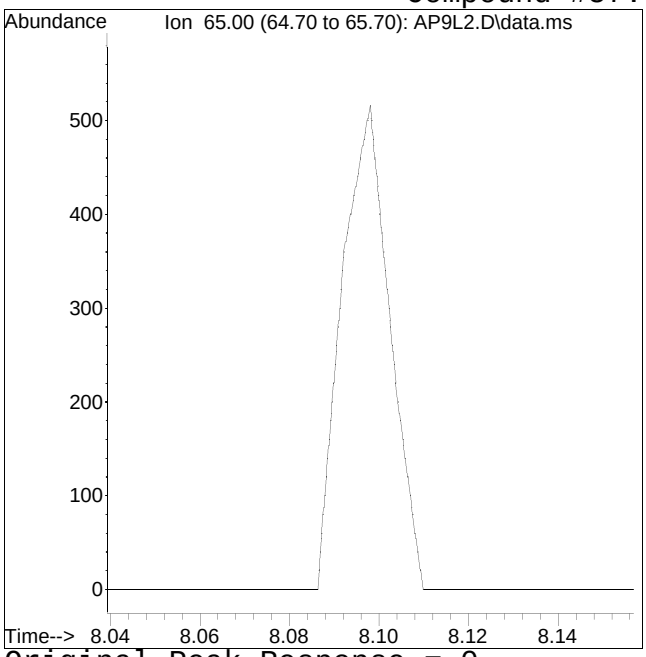
Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



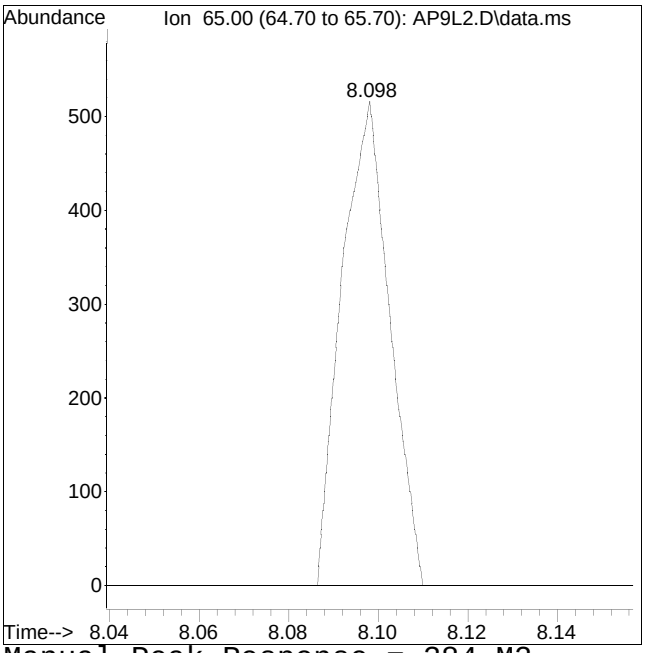
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : AP9L2.D Operator : SV107:cmm
Date Inj'd : 7/31/2024 2:13 am Instrument : SV107
Sample : IL9,32,,AP9L0.2 Lot# 10794 Quant Date : 7/31/2024 5:41 pm

Compound #57: 3-Chloroaniline



Original Peak Response = 0



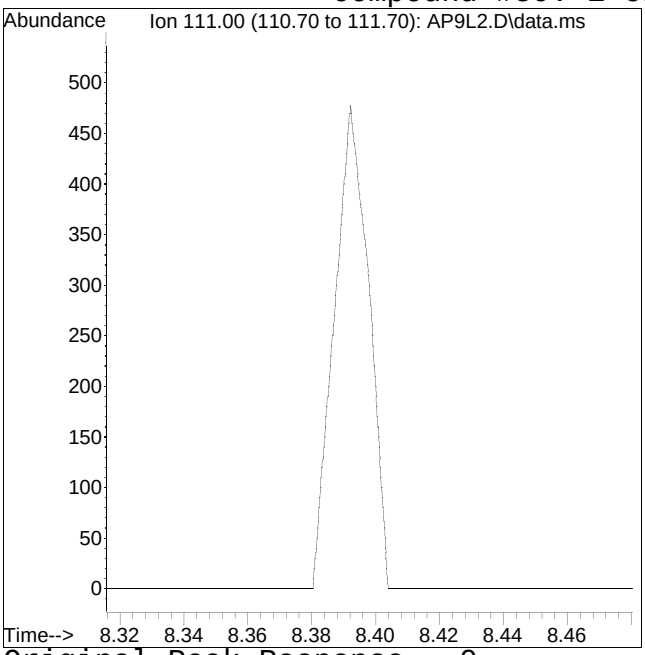
Manual Peak Response = 384 M2

M2 = Peak not found by automatic integration algorithm.

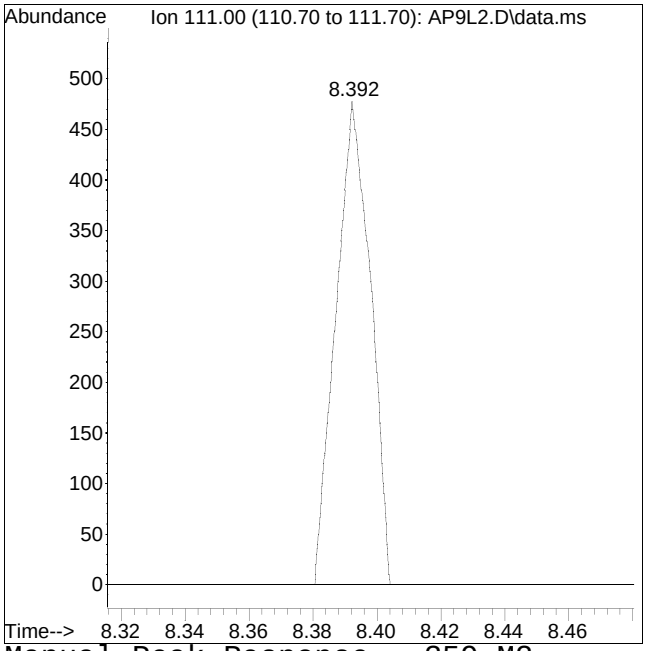
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : AP9L2.D Operator : SV107:cmm
Date Inj'd : 7/31/2024 2:13 am Instrument : SV107
Sample : IL9,32,,AP9L0.2 Lot# 10794 Quant Date : 7/31/2024 5:41 pm

Compound #59: 1-chloro-2-nitrobenzene



Original Peak Response = 0



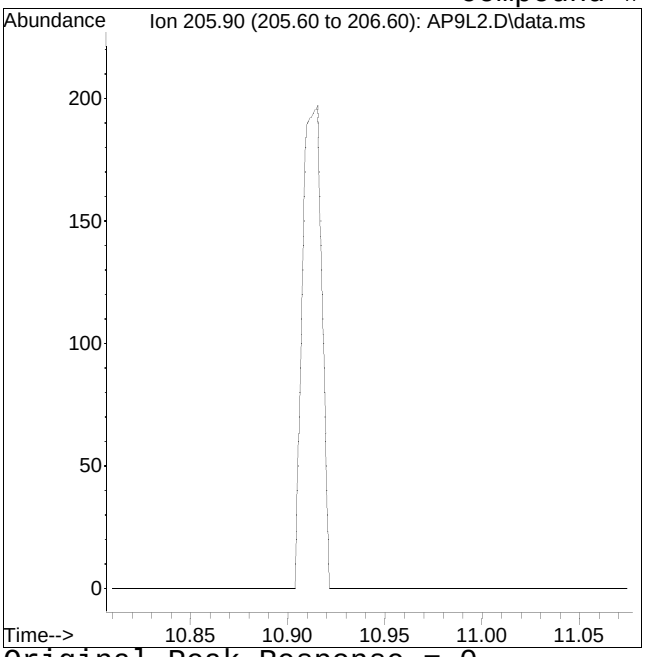
Manual Peak Response = 359 M2

M2 = Peak not found by automatic integration algorithm.

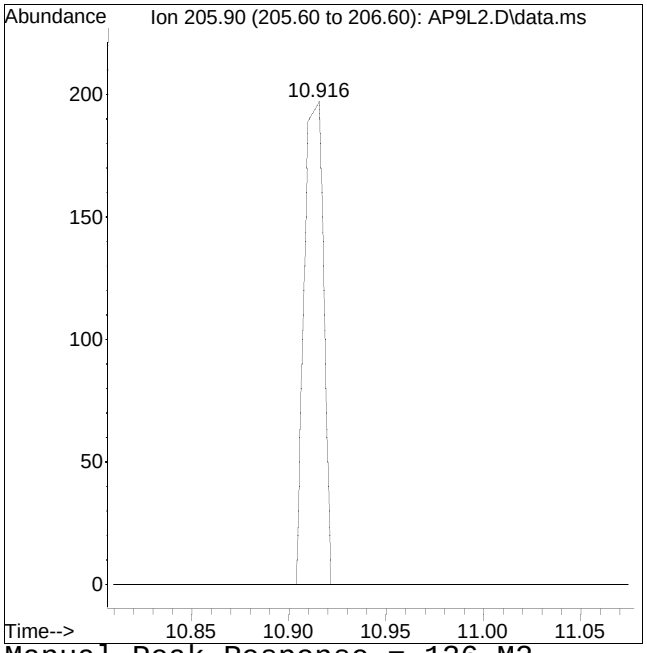
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : AP9L2.D Operator : SV107:cmm
Date Inj'd : 7/31/2024 2:13 am Instrument : SV107
Sample : IL9,32,,AP9L0.2 Lot# 10794 Quant Date : 7/31/2024 5:41 pm

Compound #84: Dichloran



Original Peak Response = 0



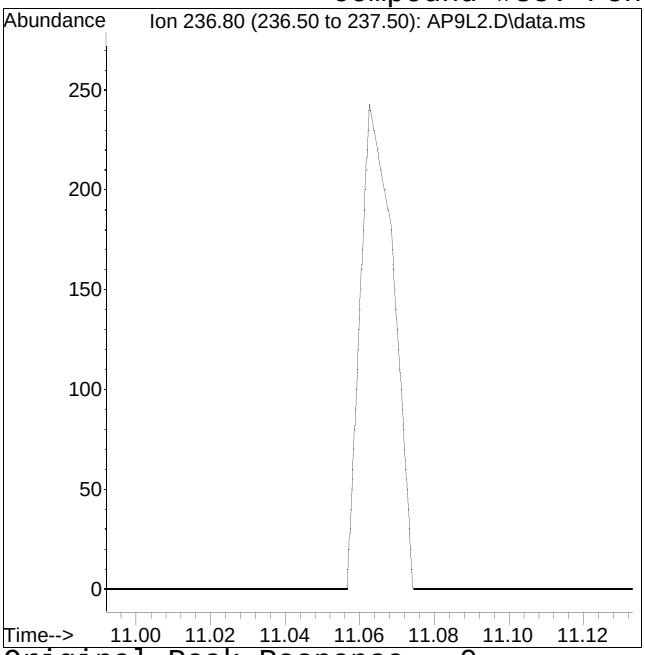
Manual Peak Response = 136 M2

M2 = Peak not found by automatic integration algorithm.

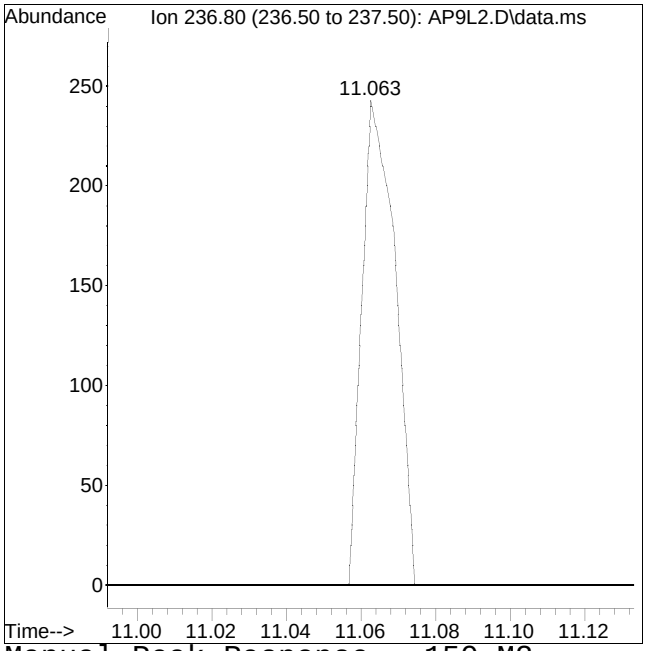
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : AP9L2.D Operator : SV107:cmm
Date Inj'd : 7/31/2024 2:13 am Instrument : SV107
Sample : IL9,32,,AP9L0.2 Lot# 10794 Quant Date : 7/31/2024 5:41 pm

Compound #85: Pentachloronitrobenzene



Original Peak Response = 0



Manual Peak Response = 150 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : AP9L1.D
Acq On : 31 Jul 2024 2:38 am
Operator : SV107:cmm
Sample : IL10,32,,AP9L0.1 Lot# 10795
Misc : WG1954578,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 31 17:39:37 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:40:50 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
27) IS2_1,4-Dichlorobenzen...	6.610	152	14962	4.000 ug/ml	0.00
Standard Area 1 = 16322			Recovery =	91.67%	
55) IS2_Naphthalene-d8	8.016	136	54851	4.000 ug/ml	0.00
Standard Area 1 = 60303			Recovery =	90.96%	
83) IS2_Acenaphthene-d10	9.780	164	30938	4.000 ug/ml	0.00
Standard Area 1 = 35340			Recovery =	87.54%	
98) IS2_Phenanthrene-d10	11.222	188	62840	4.000 ug/ml	# 0.00
Standard Area 1 = 69901			Recovery =	89.90%	
System Monitoring Compounds					
Target Compounds					Qvalue
28) Benzaldehyde	6.057	105	331M2	0.079 ug/ml	
29) Acetophenone	7.098	105	647	0.087 ug/ml#	39
30) m-Toluidine	7.192	106	475	0.068 ug/ml#	93
31) 2-Chloroaniline	7.592	127	548	0.083 ug/ml#	42
56) a-Terpineol	8.081	59	256M2	0.063 ug/ml	
57) 3-Chloroaniline	8.098	65	68M2	0.033 ug/ml	
58) 2,6-Dichlorophenol	8.128	162	277M2	0.063 ug/ml	
59) 1-chloro-2-nitrobenzene	8.392	111	72M2	0.037 ug/ml	
60) Caprolactam	0.000		0	N.D.	
61) 1,2,4,5-Tetrachloroben...	8.928	216	608	0.100 ug/ml#	81
62) Biphenyl	9.228	154	1305	0.092 ug/ml#	75
84) Dichloran	0.000		0	N.D.	
85) Pentachloronitrobenzene	0.000		0	N.D.	
99) Diphenamid	12.127	167	440	0.061 ug/ml#	64

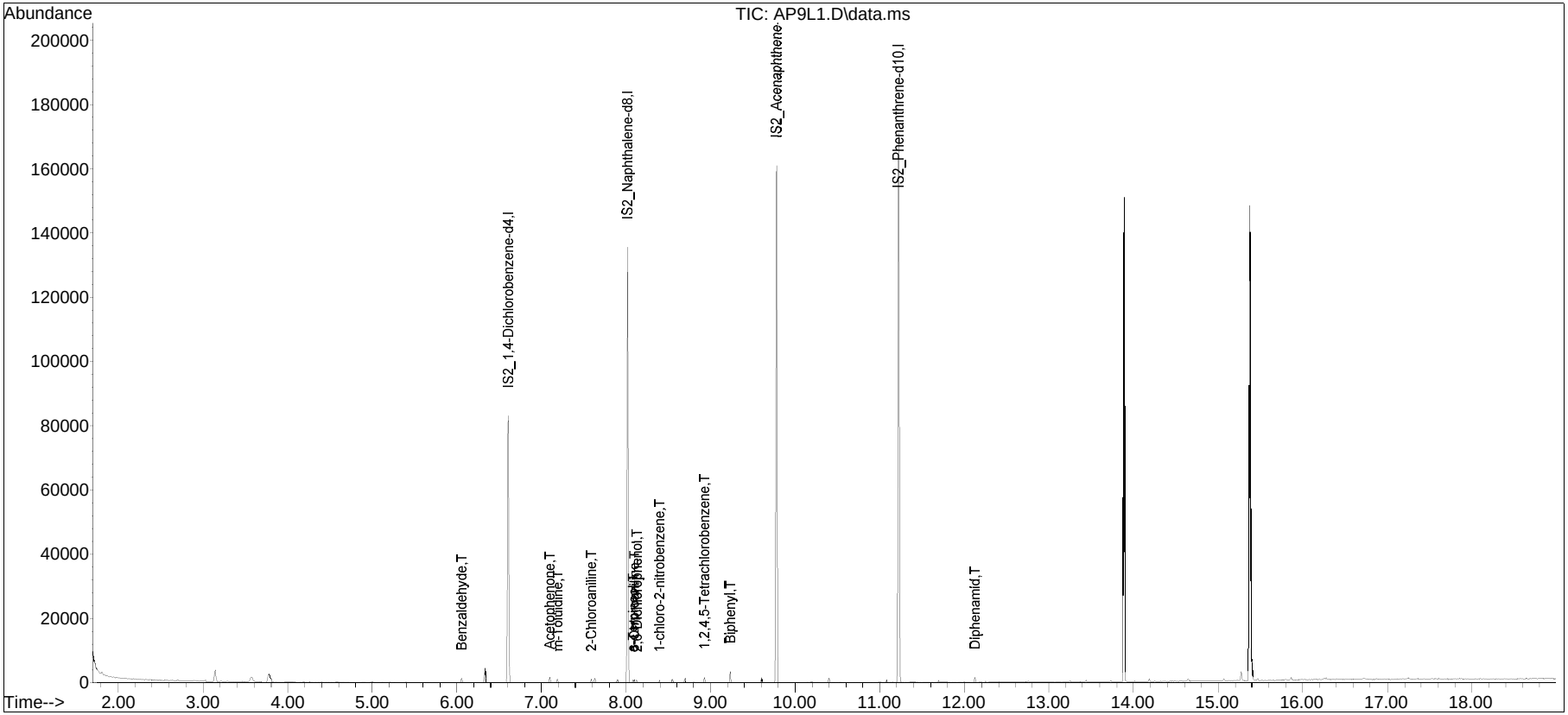
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : AP9L1.D
Acq On : 31 Jul 2024 2:38 am
Operator : SV107:cmm
Sample : IL10,32,,AP9L0.1 Lot# 10795
Misc : WG1954578,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 31 17:39:37 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 31 17:40:50 2024
Response via : Initial Calibration

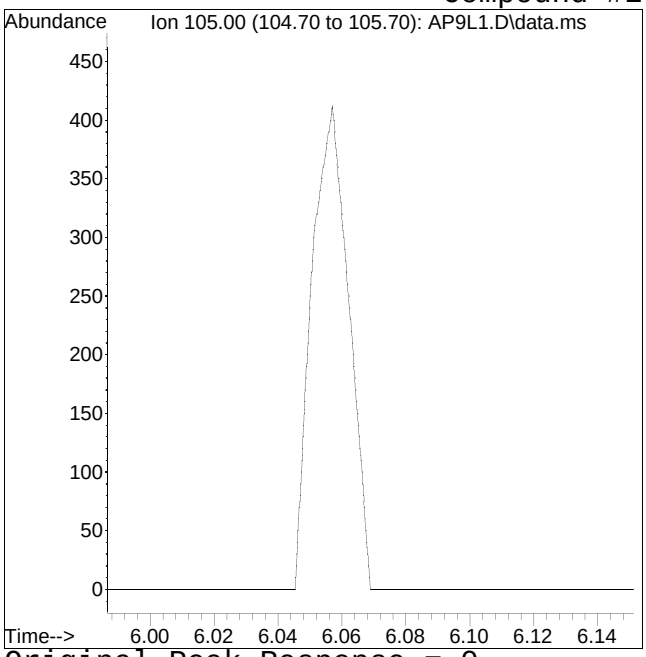
Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



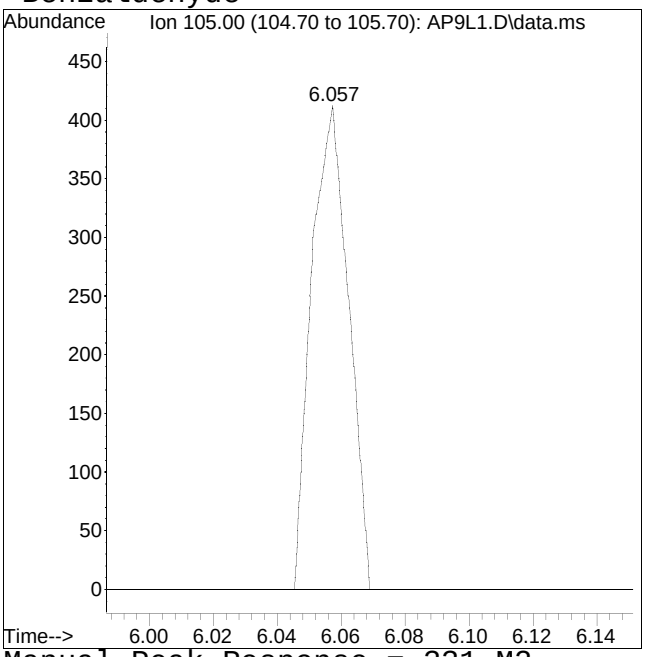
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : AP9L1.D Operator : SV107:cmm
Date Inj'd : 7/31/2024 2:38 am Instrument : SV107
Sample : IL10,32,,AP9L0.1 Lot# 1079 Quant Date : 7/31/2024 5:40 pm

Compound #28: Benzaldehyde



Original Peak Response = 0



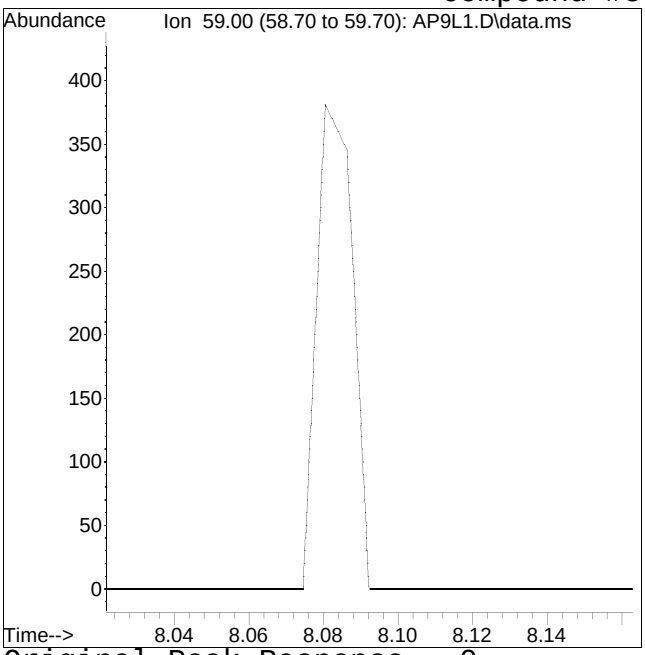
Manual Peak Response = 331 M2

M2 = Peak not found by automatic integration algorithm.

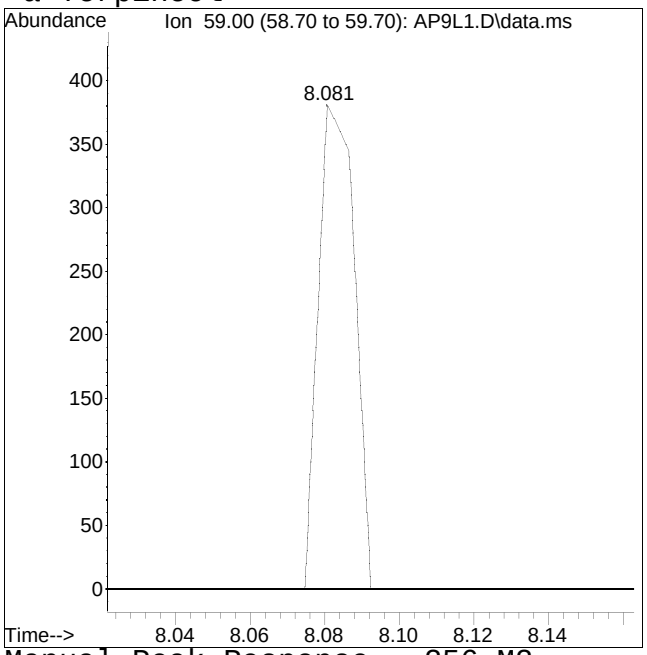
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : AP9L1.D Operator : SV107:cmm
Date Inj'd : 7/31/2024 2:38 am Instrument : SV107
Sample : IL10,32,,AP9L0.1 Lot# 1079 Quant Date : 7/31/2024 5:40 pm

Compound #56: a-Terpineol



Original Peak Response = 0



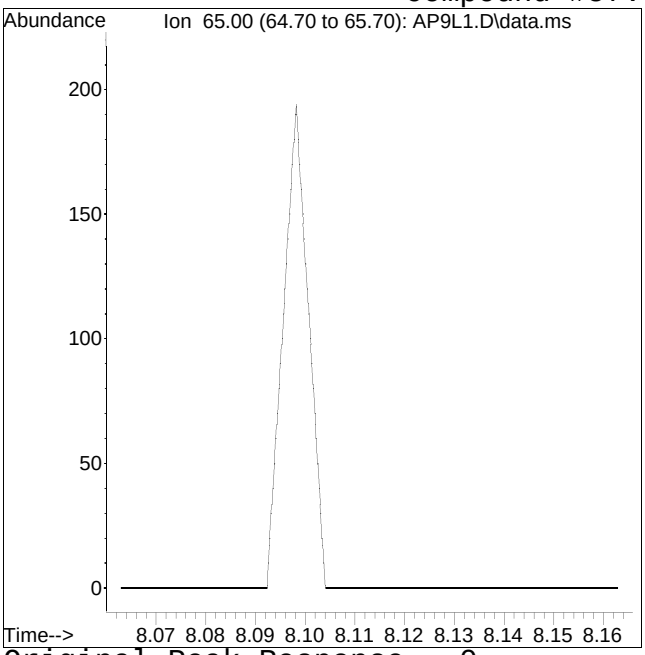
Manual Peak Response = 256 M2

M2 = Peak not found by automatic integration algorithm.

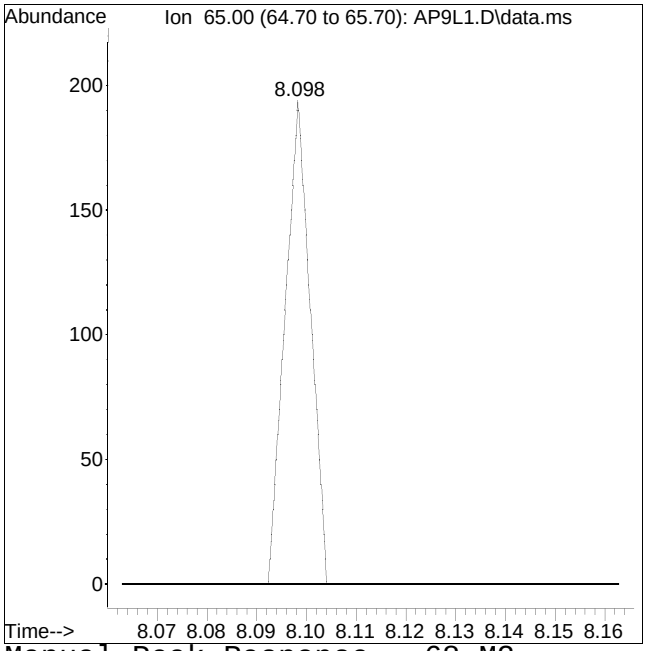
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : AP9L1.D Operator : SV107:cmm
Date Inj'd : 7/31/2024 2:38 am Instrument : SV107
Sample : IL10,32,,AP9L0.1 Lot# 1079 Quant Date : 7/31/2024 5:40 pm

Compound #57: 3-Chloroaniline



Original Peak Response = 0



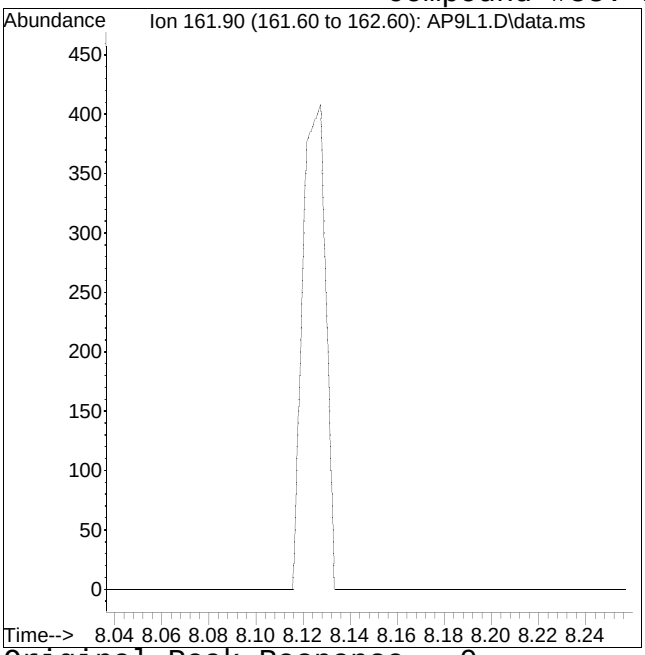
Manual Peak Response = 68 M2

M2 = Peak not found by automatic integration algorithm.

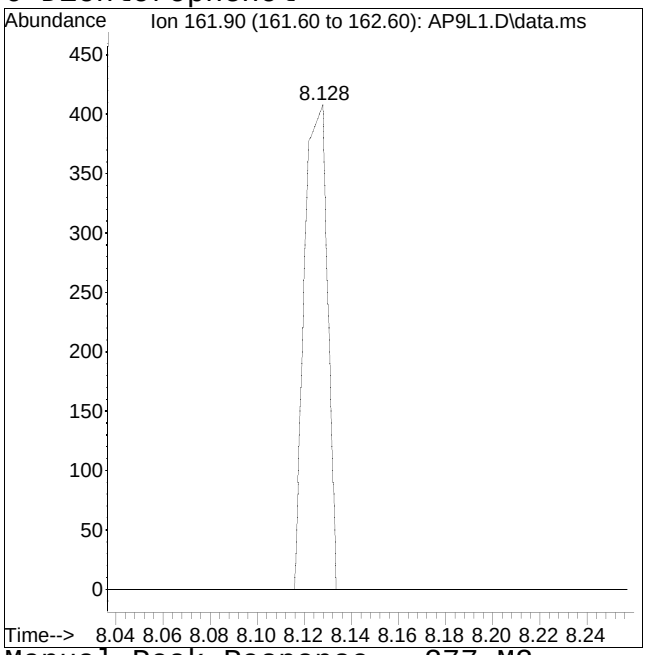
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : AP9L1.D Operator : SV107:cmm
Date Inj'd : 7/31/2024 2:38 am Instrument : SV107
Sample : IL10,32,,AP9L0.1 Lot# 1079 Quant Date : 7/31/2024 5:40 pm

Compound #58: 2,6-Dichlorophenol



Original Peak Response = 0



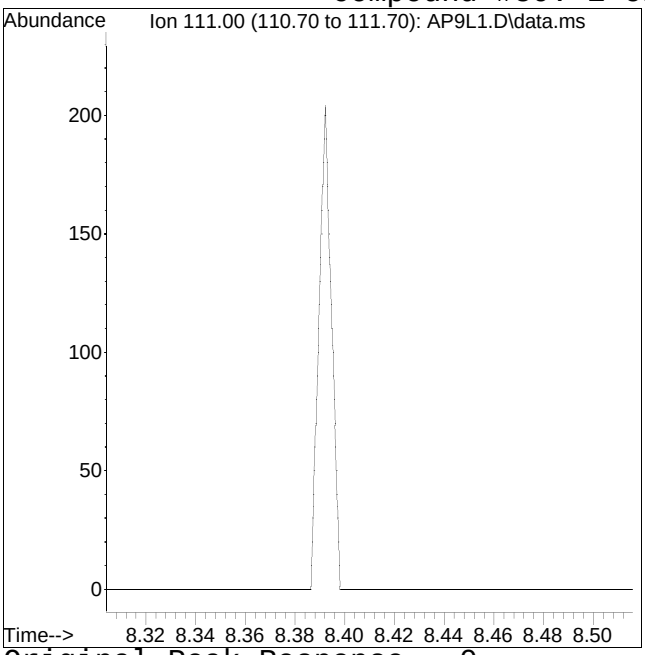
Manual Peak Response = 277 M2

M2 = Peak not found by automatic integration algorithm.

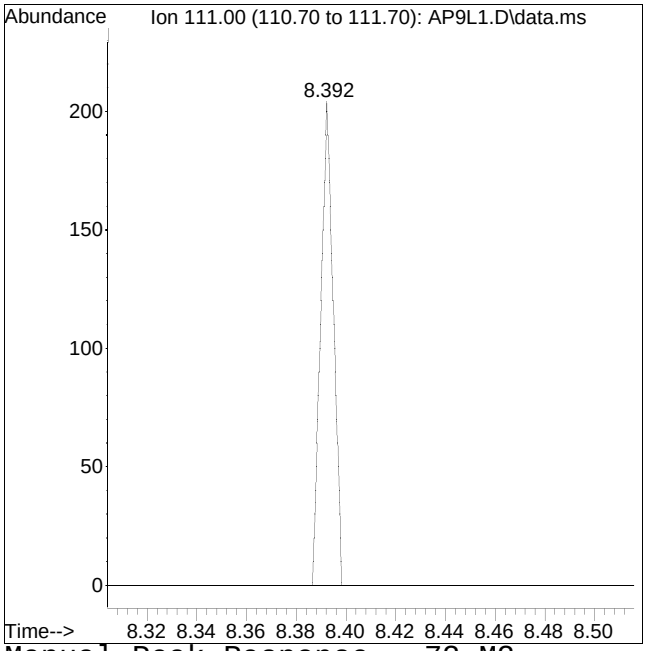
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : AP9L1.D Operator : SV107:cmm
Date Inj'd : 7/31/2024 2:38 am Instrument : SV107
Sample : IL10,32,,AP9L0.1 Lot# 1079 Quant Date : 7/31/2024 5:40 pm

Compound #59: 1-chloro-2-nitrobenzene



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\SV107\240730ical\
Data File : ABNICV.D
Acq On : 31 Jul 2024 3:03 am
Operator : SV107:cmm
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1954578,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 02 07:59:20 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 07:58:43 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	121	0.00
2	t	n-Nitrosodimethylamine		0.710	0.687	3.2	117	0.01
3	t	Pyridine		1.086	1.057	2.7	107	0.00
4	S	2-Fluorophenol		1.080	1.018	5.7	114	0.00
5	T	Aniline		1.765	1.653	6.3	122	0.00
6	t	2-Chlorophenol		1.294	1.243	3.9	122	0.00
7	S	Phenol-d6		1.413	1.392	1.5	127	0.00
8	T	Phenol		1.566	1.493	4.7	124	0.00
9	T	Bis(2-chloroethyl)ether		1.247	1.186	4.9	129	0.00
10	T	1,3-Dichlorobenzene		1.587	1.480	6.7	122	0.00
11	T	1,4-Dichlorobenzene		1.599	1.504	5.9	123	0.00
12	T	1,2-Dichlorobenzene		1.562	1.454	6.9	123	0.00
13	t	Benzyl alcohol		1.010	0.948	6.1	125	0.00
14	T	Bis(2-chloroisopropyl)ether		1.617	1.525	5.7	127	0.00
15	T	2-Methylphenol		1.126	1.086	3.6	131	0.00
16	T	Hexachloroethane		0.563	0.556	1.2	124	0.00
17	T	n-Nitrosodi-n-propylamine		0.862	0.828	3.9	129	0.00
18	T	3-Methylphenol/4-Methylphen		1.241	1.169	5.8	130	0.00
19	S	Nitrobenzene-d5		1.368	1.273	6.9	124	0.00
20	T	Nitrobenzene		1.312	1.257	4.2	126	0.00
21	T	Isophorone		2.344	2.317	1.2	132	0.00
22	T	2-Nitrophenol		0.667	0.592	11.2	121	0.00
23	T	2,4-Dimethylphenol		1.081	0.960	11.2	175	0.00
24	T	Bis(2-chloroethoxy)methane		1.585	1.504	5.1	132	0.00
25	T	2,4-Dichlorophenol		1.180	1.137	3.6	128	0.00
26	T	1,2,4-Trichlorobenzene		1.405	1.296	7.8	126	0.00
35	I	IS1_Naphthalene-d8		1.000	1.000	0.0	128	0.00
36	T	Naphthalene		1.132	1.018	10.1	131	0.00
37	T	Benzoic Acid	*	5.000	4.342	13.2	118	0.01
38	T	4-Chloroaniline		0.126	0.120	4.8	127	0.00
39	T	Hexachlorobutadiene		0.224	0.209	6.7	130	0.00
40	T	p-Chloro-m-cresol		0.283	0.276	2.5	138	0.00
41	T	2-Methylnaphthalene		0.737	0.675	8.4	132	0.00
42	T	1-Methylnaphthalene		0.238	0.230	3.4	136	0.00
43	T	Hexachlorocyclopentadiene		0.212	0.194	8.5	125	0.00
44	T	2,4,6-Trichlorophenol		0.234	0.229	2.1	134	0.00
45	T	2,4,5-Trichlorophenol		0.249	0.247	0.8	134	0.00
46	S	2-Fluorobiphenyl		0.900	0.806	10.4	135	0.00

Data Path : I:\8270\SV107\240730ical\
Data File : ABNICV.D
Acq On : 31 Jul 2024 3:03 am
Operator : SV107:cmm
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1954578,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 02 07:59:20 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 07:58:43 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)
47	T	2-Chloronaphthalene		0.763	0.674	11.7	133	0.00
48	T	2-Nitroaniline		0.204	0.198	2.9	140	0.00
49	T	1,4-Dinitrobenzene		0.110	0.094	14.5	136	0.00
50	T	1,3-Dinitrobenzene		0.129	0.116	10.1	142	0.00
51	T	Dimethyl phthalate		0.863	0.823	4.6	143	0.00
52	T	Acenaphthylene		1.132	1.093	3.4	143	0.00
53	T	2,6-Dinitrotoluene		0.169	0.173	-2.4	145	0.00
54	T	1,2-Dinitrobenzene		0.077	0.074	3.9	141	0.00
63	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	140	0.00
64	T	3-Nitroaniline		0.320	0.322	-0.6	145	0.00
65	T	Acenaphthene		1.138	1.036	9.0	142	0.00
66	T	2,4-Dinitrophenol	*	5.000	3.928	21.4#	141	0.00
67	T	Dibenzofuran		1.879	1.614	14.1	138	0.00
68	T	2,4-Dinitrotoluene		0.408	0.381	6.6	143	0.00
69	T	4-Nitrophenol		0.253	0.239	5.5	139	0.00
70	T	2,3,5,6-Tetrachlorophenol		0.341	0.348	-2.1	144	0.00
71	T	2,3,4,6-Tetrachlorophenol		0.325	0.338	-4.0	142	0.00
72	T	Diethyl phthalate		1.327	1.238	6.7	150	0.00
73	T	Fluorene		1.404	1.286	8.4	143	0.00
74	T	4-Chlorophenyl phenyl ether		0.713	0.642	10.0	143	0.00
75	T	4-Nitroaniline		0.320	0.306	4.4	142	0.00
76	T	4,6-Dinitro-o-cresol	*	5.000	3.991	20.2#	147	0.00
77	T	NDPA/DPA		1.166	1.118	4.1	148	0.00
78	T	Azobenzene		1.226	1.208	1.5	150	0.00
79	S	2,4,6-Tribromophenol		0.187	0.169	9.6	139	0.00
80	T	4-Bromophenyl phenyl ether		0.385	0.345	10.4	142	0.00
81	T	Hexachlorobenzene		0.425	0.385	9.4	141	0.00
82	T	Pentachlorophenol	*	5.000	4.240	15.2	145	0.00
88	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	147	0.00
89	T	Phenanthrene		1.151	1.032	10.3	150	0.00
90	T	Anthracene		1.089	1.037	4.8	154	0.00
91	T	Carbazole		0.994	0.973	2.1	156	0.00
92	T	Di-n-butylphthalate		1.094	1.057	3.4	165	0.00
93	T	Fluoranthene		1.261	1.202	4.7	156	0.00
94	T	Benzidine	*	5.000	4.471	10.6	180	0.00
95	T	Pyrene		1.372	1.327	3.3	159	0.00
96	S	4-Terphenyl-d14		0.946	0.876	7.4	157	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240730ical\
Data File : ABNICV.D
Acq On : 31 Jul 2024 3:03 am
Operator : SV107:cmm
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1954578,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 02 07:59:20 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 07:58:43 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)
97	T	Butyl benzyl phthalate	*	5.000	4.011	19.8	171	0.00
104	I	IS1_Chrysene-d12		1.000	1.000	0.0	161	0.00
105	T	Benzo(a)anthracene		1.453	1.365	6.1	165	0.00
106	T	3,3'-Dichlorobenzidine	*	5.000	4.166	16.7	165	0.00
107	T	Chrysene		1.403	1.283	8.6	161	0.00
108	T	Bis(2-ethylhexyl)phthalate	*	5.000	4.731	5.4	179	0.00
109	T	Di-n-octylphthalate	*	5.000	4.234	15.3	184	0.00
110	T	Benzo(b)fluoranthene		1.251	1.204	3.8	162	0.00
111	T	Benzo(k)fluoranthene		1.251	1.148	8.2	145	0.00
112	T	Benzo(a)pyrene		1.101	1.143	-3.8	166	0.00
113	I	IS1_Perylene-d12		1.000	1.000	0.0	156	0.00
114	T	Indeno(1,2,3-cd)pyrene		1.098	1.072	2.4	156	0.00
115	T	Dibenzo(a,h)anthracene		1.056	1.051	0.5	157	0.00
116	T	Benzo(ghi)perylene		0.977	0.978	-0.1	149	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\SV107\240730ical\
Data File : ABNICV.D
Acq On : 31 Jul 2024 3:03 am
Operator : SV107:cmm
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1954578,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 02 07:59:20 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 07:58:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.610	152	17584	4.000	ug/ml	0.00
Standard Area 1 = 14527			Recovery = 121.04%			
35) IS1_Naphthalene-d8	8.016	136	68486	4.000	ug/ml	0.00
Standard Area 1 = 53319			Recovery = 128.45%			
63) IS1_Acenaphthene-d10	9.781	164	42067	4.000	ug/ml	0.00
Standard Area 1 = 30073			Recovery = 139.88%			
88) IS1_Phenanthrene-d10	11.222	188	81472	4.000	ug/ml	0.00
Standard Area 1 = 55264			Recovery = 147.42%			
104) IS1_Chrysene-d12	13.898	240	79065	4.000	ug/ml	0.00
Standard Area 1 = 49010			Recovery = 161.32%			
113) IS1_Perylene-d12	15.386	264	82991	4.000	ug/ml	0.00
Standard Area 1 = 53266			Recovery = 155.80%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.798	112	22383	4.715	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 235.75%#			
7) Phenol-d6	6.234	99	30607	4.928	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 246.40%#			
19) Nitrobenzene-d5	7.251	82	27976	4.653	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 465.30%#			
46) 2-Fluorobiphenyl	9.133	172	68968	4.476	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 447.60%#			
79) 2,4,6-Tribromophenol	10.551	330	8881	4.508	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 225.40%#			
96) 4-Terphenyl-d14	12.816	244	89243	4.633	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 463.30%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.357	74	15100	4.836	ug/ml#	66
3) Pyridine	2.393	79	23238	4.866	ug/ml#	58
5) Aniline	6.210	93	36341	4.684	ug/ml	99
6) 2-Chlorophenol	6.351	128	27321	4.802	ug/ml	91
8) Phenol	6.251	94	32818	4.766	ug/ml	95
9) Bis(2-chloroethyl)ether	6.328	93	26073	4.755	ug/ml#	81
10) 1,3-Dichlorobenzene	6.534	146	32527	4.661	ug/ml	97
11) 1,4-Dichlorobenzene	6.628	146	33050	4.700	ug/ml	98
12) 1,2-Dichlorobenzene	6.804	146	31964	4.656	ug/ml	97
13) Benzyl alcohol	6.804	79	20848	4.697	ug/ml	96
14) Bis(2-chloroisopropyl)...	6.981	45	33521	4.715	ug/ml#	41

Data Path : I:\8270\SV107\240730ical\
Data File : ABNICV.D
Acq On : 31 Jul 2024 3:03 am
Operator : SV107:cmm
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1954578,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 02 07:59:20 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 07:58:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.969	108	23873	4.821	ug/ml	99
16) Hexachloroethane	7.187	117	12226	4.942	ug/ml#	65
17) n-Nitrosodi-n-propylamine	7.122	70	18192	4.801	ug/ml	95
18) 3-Methylphenol/4-Methy...	7.151	108	25701	4.711	ug/ml	99
20) Nitrobenzene	7.275	77	27625	4.790	ug/ml	97
21) Isophorone	7.545	82	50933	4.943	ug/ml	98
22) 2-Nitrophenol	7.628	139	13021	4.444	ug/ml#	90
23) 2,4-Dimethylphenol	7.716	107	21092	4.437	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.810	93	33047	4.743	ug/ml	98
25) 2,4-Dichlorophenol	7.887	162	24986	4.815	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.969	180	28492	4.613	ug/ml	97
36) Naphthalene	8.039	128	87133	4.496	ug/ml	99
37) Benzoic Acid	7.816	105	13322	4.342	ug/ml	94
38) 4-Chloroaniline	8.116	65	10273	4.747	ug/ml	78
39) Hexachlorobutadiene	8.204	225	17854	4.660	ug/ml	99
40) p-Chloro-m-cresol	8.639	107	23667	4.887	ug/ml	99
41) 2-Methylnaphthalene	8.751	142	57763	4.576	ug/ml	95
42) 1-Methylnaphthalene	8.851	115	19728	4.837	ug/ml	98
43) Hexachlorocyclopentadiene	8.928	237	16567	4.572	ug/ml	98
44) 2,4,6-Trichlorophenol	9.045	196	19600	4.891	ug/ml	99
45) 2,4,5-Trichlorophenol	9.075	196	21125	4.962	ug/ml	98
47) 2-Chloronaphthalene	9.233	162	57688	4.416	ug/ml	96
48) 2-Nitroaniline	9.345	138	16914	4.840	ug/ml	85
49) 1,4-Dinitrobenzene	9.475	168	8087	4.300	ug/ml	80
50) 1,3-Dinitrobenzene	9.551	168	9925	4.493	ug/ml#	1
51) Dimethyl phthalate	9.545	163	70425	4.769	ug/ml#	98
52) Acenaphthylene	9.639	152	93537	4.824	ug/ml	99
53) 2,6-Dinitrotoluene	9.592	165	14781	5.114	ug/ml#	81
54) 1,2-Dinitrobenzene	9.633	168	6365	4.847	ug/ml#	1
64) 3-Nitroaniline	9.745	138	16925	5.029	ug/ml#	87
65) Acenaphthene	9.810	154	54473	4.551	ug/ml	90
66) 2,4-Dinitrophenol	9.851	184	7107	3.928	ug/ml#	87
67) Dibenzofuran	9.980	168	84859	4.294	ug/ml	98
68) 2,4-Dinitrotoluene	9.980	165	20040	4.666	ug/ml	95
69) 4-Nitrophenol	9.928	65	12555	4.718	ug/ml#	83
70) 2,3,5,6-Tetrachlorophenol	10.069	232	18284	5.097	ug/ml	98
71) 2,3,4,6-Tetrachlorophenol	10.110	232	17791	5.200	ug/ml	98
72) Diethyl phthalate	10.239	149	65096	4.664	ug/ml	98
73) Fluorene	10.316	166	67628	4.579	ug/ml	94
74) 4-Chlorophenyl phenyl ...	10.333	204	33757	4.502	ug/ml	89

Data Path : I:\8270\SV107\240730ical\
Data File : ABNICV.D
Acq On : 31 Jul 2024 3:03 am
Operator : SV107:cmm
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1954578,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 02 07:59:20 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 07:58:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	10.339	138	16075M6	4.774	ug/ml	
76)	4,6-Dinitro-o-cresol	10.375	198	10228	3.991	ug/ml#	64
77)	NDPA/DPA	10.445	169	58770	4.794	ug/ml	97
78)	Azobenzene	10.480	77	63508	4.924	ug/ml	95
80)	4-Bromophenyl phenyl e...	10.804	248	18126	4.478	ug/ml#	87
81)	Hexachlorobenzene	10.857	284	20239	4.531	ug/ml	89
82)	Pentachlorophenol	11.051	266	12741	4.240	ug/ml	99
89)	Phenanthrene	11.245	178	105121	4.483	ug/ml	99
90)	Anthracene	11.298	178	105625	4.762	ug/ml	98
91)	Carbazole	11.463	167	99085	4.896	ug/ml	98
92)	Di-n-butylphthalate	11.845	149	107649	4.831	ug/ml	98
93)	Fluoranthene	12.410	202	122428	4.767	ug/ml#	92
94)	Benzidine	12.557	184	66217	4.471	ug/ml#	93
95)	Pyrene	12.627	202	135123	4.836	ug/ml	99
97)	Butyl benzyl phthalate	13.345	149	45300	4.011	ug/ml	90
105)	Benzo(a)anthracene	13.886	228	134874	4.695	ug/ml	98
106)	3,3'-Dichlorobenzidine	13.880	252	42776	4.166	ug/ml#	98
107)	Chrysene	13.921	228	126820	4.572	ug/ml	97
108)	Bis(2-ethylhexyl)phtha...	13.992	149	73243	4.731	ug/ml#	95
109)	Di-n-octylphthalate	14.680	149	113743	4.234	ug/ml#	71
110)	Benzo(b)fluoranthene	15.010	252	119034	4.812	ug/ml#	93
111)	Benzo(k)fluoranthene	15.039	252	113429	4.586	ug/ml#	95
112)	Benzo(a)pyrene	15.333	252	112953	5.192	ug/ml#	93
114)	Indeno(1,2,3-cd)pyrene	16.415	276	111237M6	4.883	ug/mL	
115)	Dibenzo(a,h)anthracene	16.439	278	109077	4.980	ug/ml#	92
116)	Benzo(ghi)perylene	16.686	276	101486	5.005	ug/ml#	89

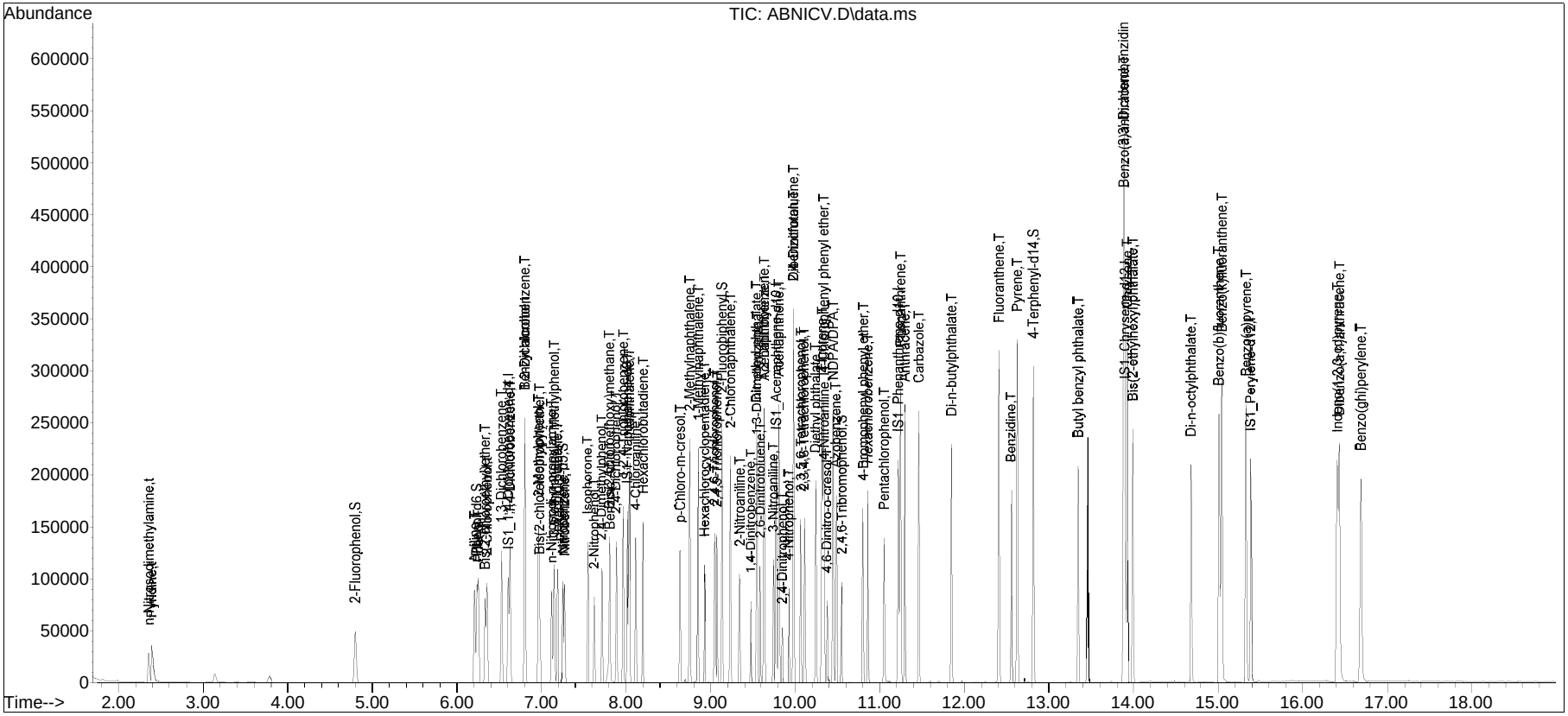
(#) = qualifier out of range (m) = manual integration (+) = signals summed

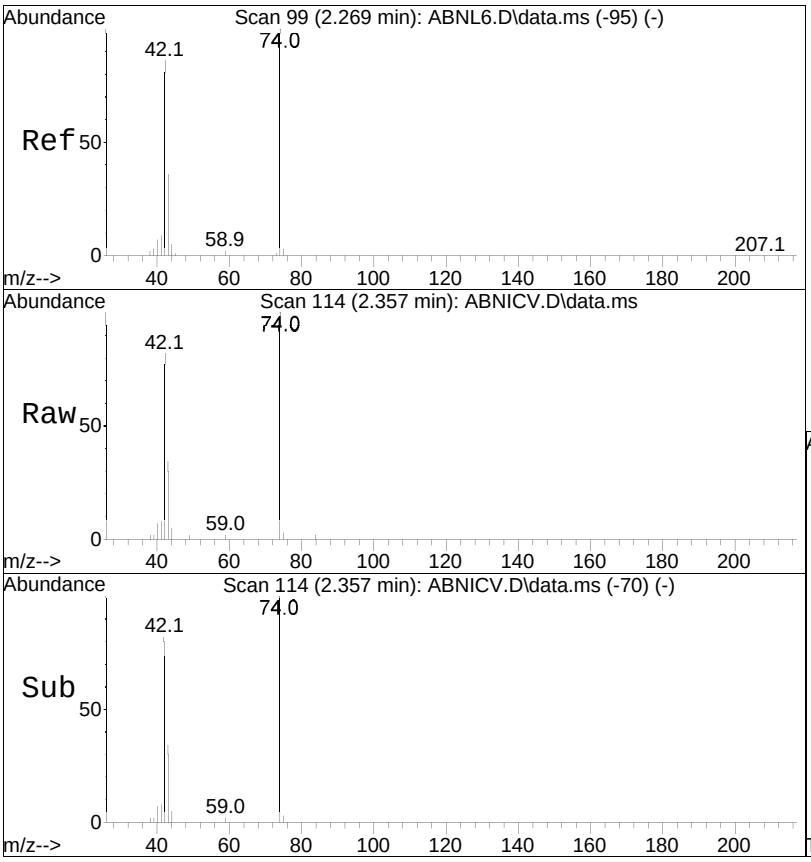
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ABNICV.D
Acq On : 31 Jul 2024 3:03 am
Operator : SV107:cmm
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1954578,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 02 07:59:20 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 07:58:43 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\ABNL6.D•

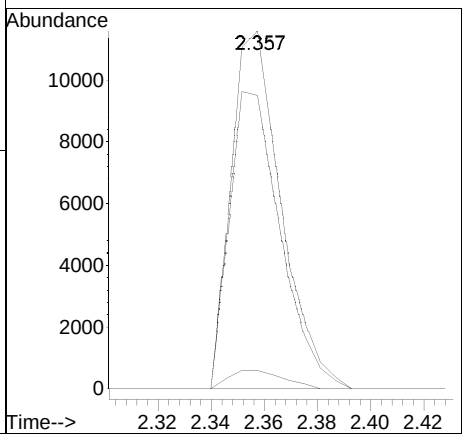


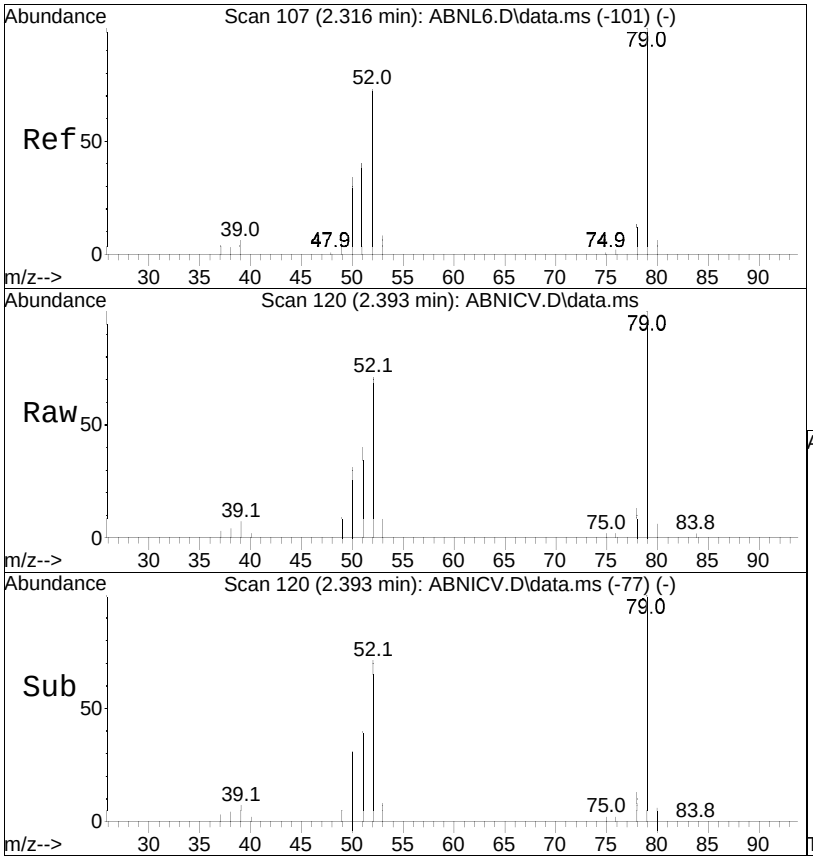


#2
n-Nitrosodimethylamine
Concen: 4.84 ug/ml
RT: 2.357 min Scan# 114
Delta R.T. 0.011 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion: 74 Resp: 15100

Ion	Ratio	Lower	Upper
74	100		
42	84.5	100.0	150.0#
44	5.5	6.7	10.1#

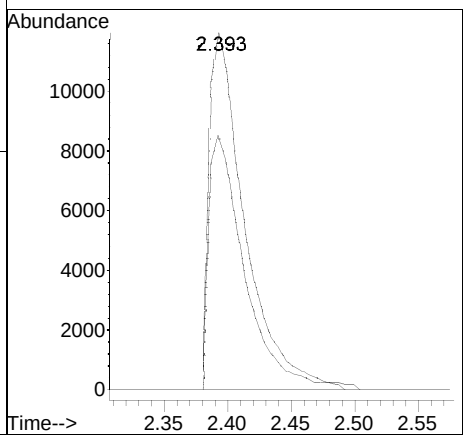


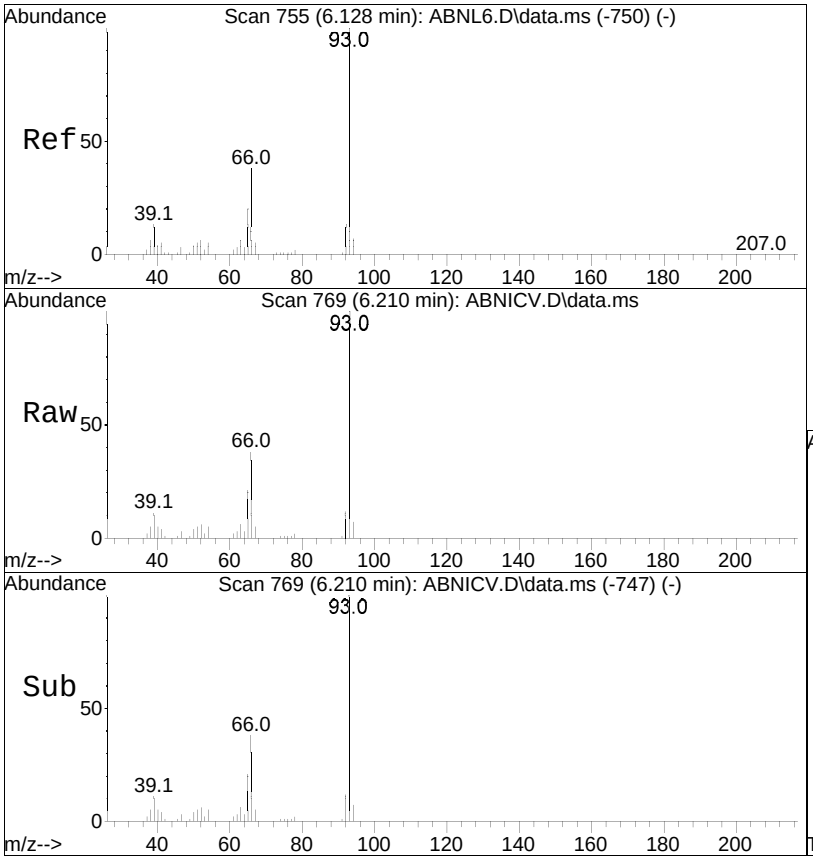


#3
Pyridine
Concen: 4.87 ug/ml
RT: 2.393 min Scan# 120
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion: 79 Resp: 23238

Ion	Ratio	Lower	Upper
79	100		
52	71.0	93.1	139.7#

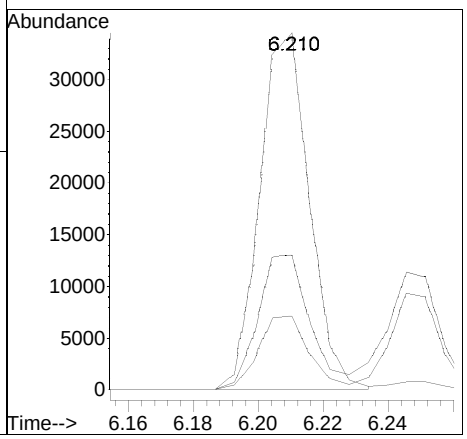


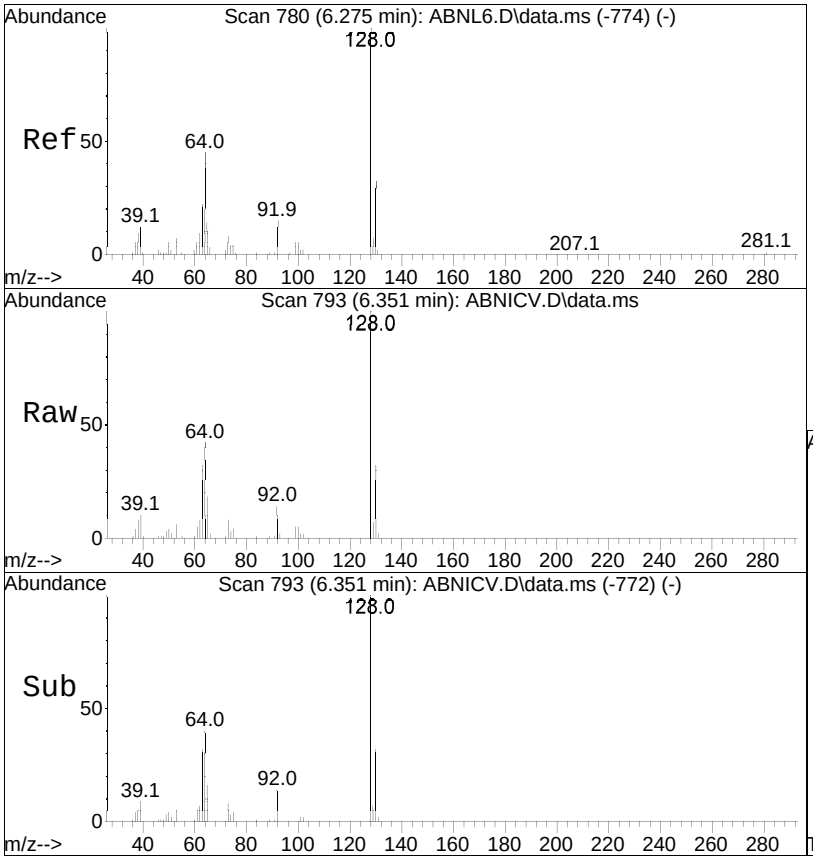


#5
Aniline
Concen: 4.68 ug/ml
RT: 6.210 min Scan# 769
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion: 93 Resp: 36341

Ion	Ratio	Lower	Upper
93	100		
66	40.1	32.6	49.0
65	21.3	17.6	26.4

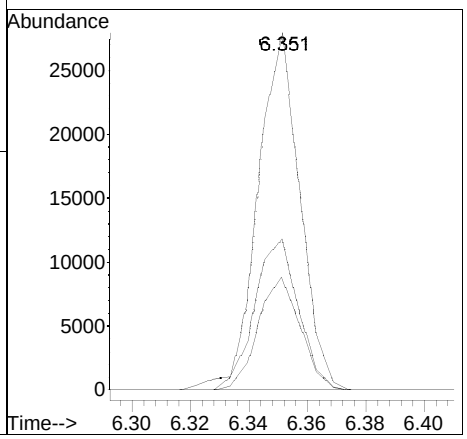


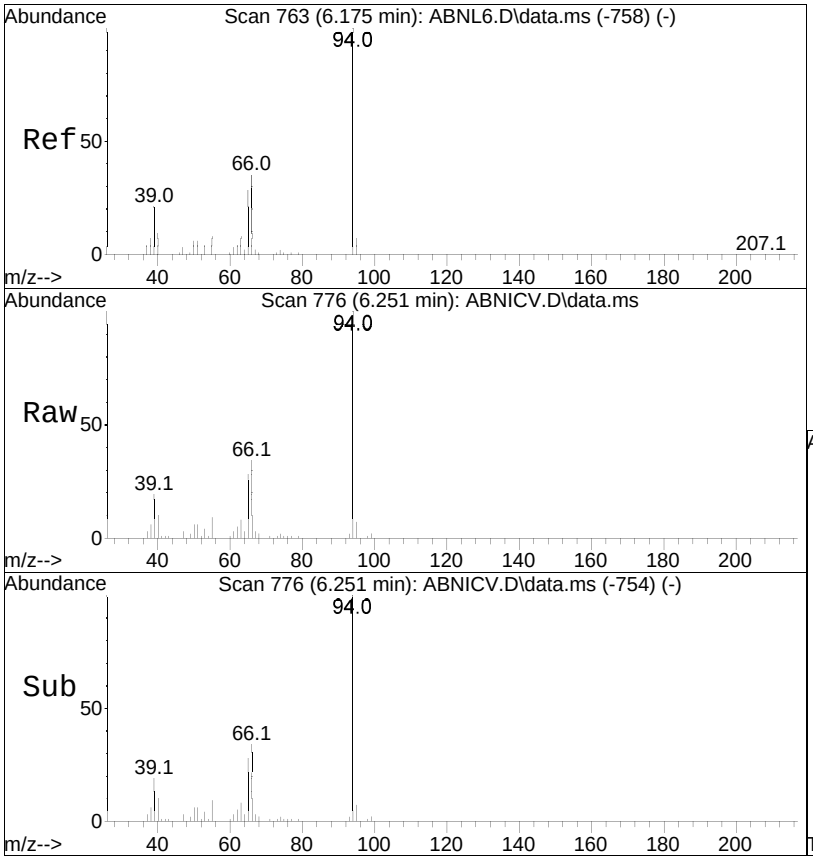


#6
2-Chlorophenol
Concen: 4.80 ug/ml
RT: 6.351 min Scan# 793
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:128 Resp: 27321

Ion	Ratio	Lower	Upper
128	100		
64	46.6	45.1	67.7
130	32.2	26.2	39.4

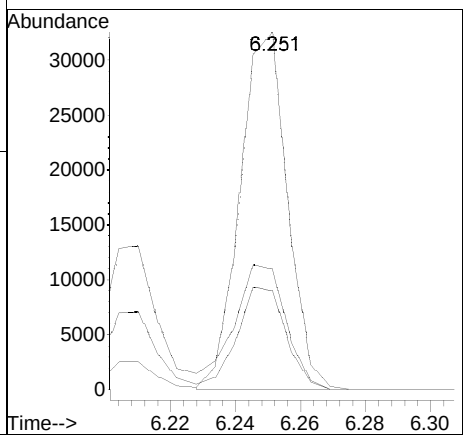


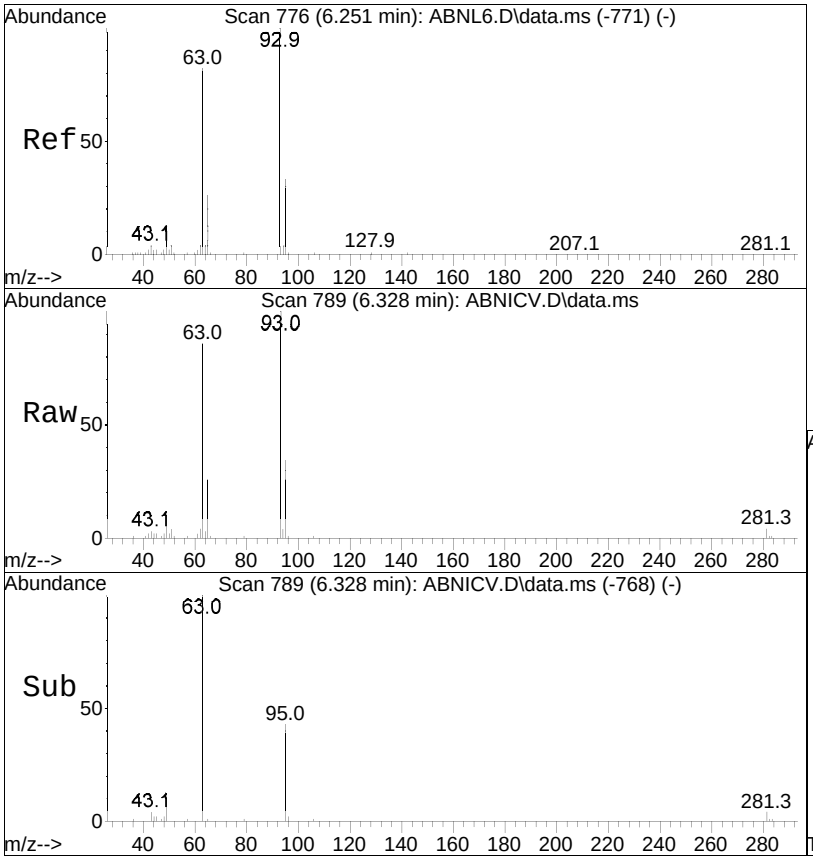


#8
Phenol
Concen: 4.77 ug/ml
RT: 6.251 min Scan# 776
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion: 94 Resp: 32818

Ion	Ratio	Lower	Upper
94	100		
65	29.8	26.0	39.0
66	38.5	33.8	50.8

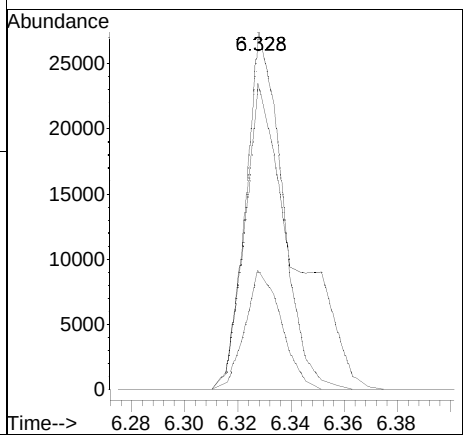


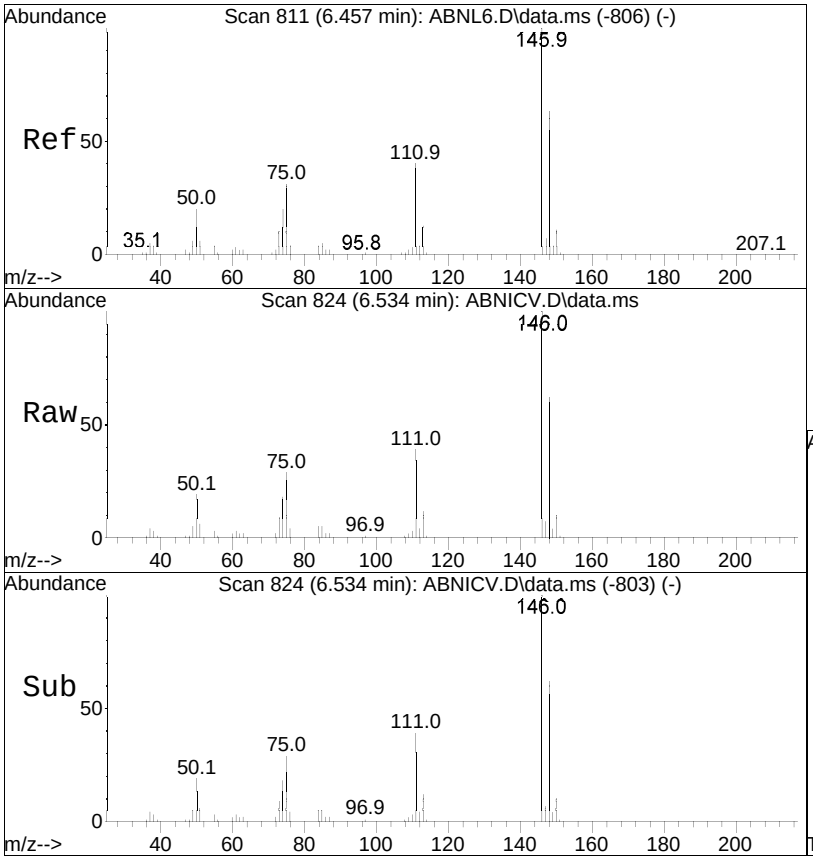


#9
Bis(2-chloroethyl)ether
Concen: 4.76 ug/ml
RT: 6.328 min Scan# 789
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion: 93 Resp: 26073

Ion	Ratio	Lower	Upper
93	100		
63	117.1	74.6	111.8#
95	33.1	25.9	38.9

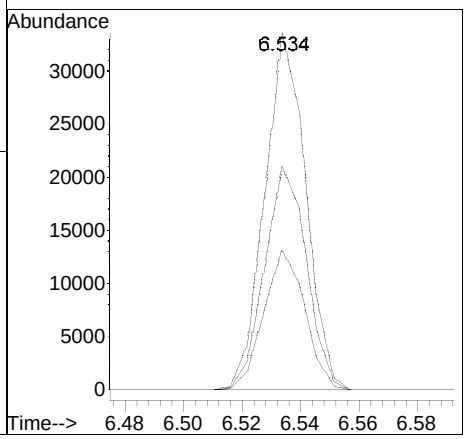


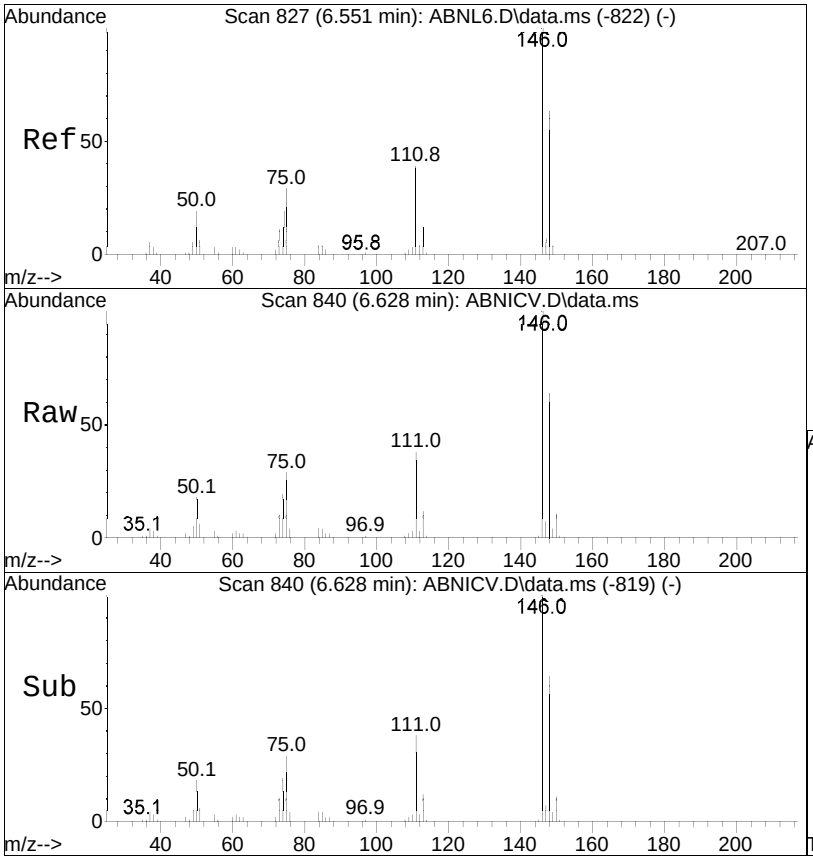


#10
1,3-Dichlorobenzene
Concen: 4.66 ug/ml
RT: 6.534 min Scan# 824
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:146 Resp: 32527

Ion	Ratio	Lower	Upper
146	100		
111	39.4	34.3	51.5
148	64.0	50.8	76.2

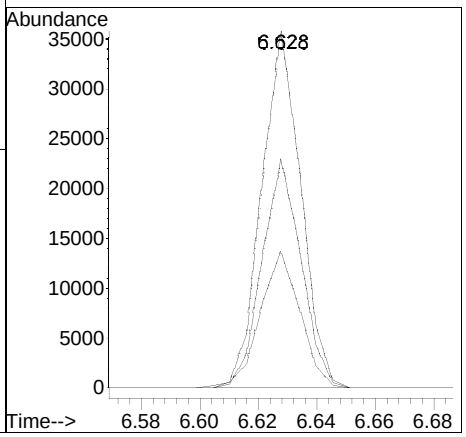


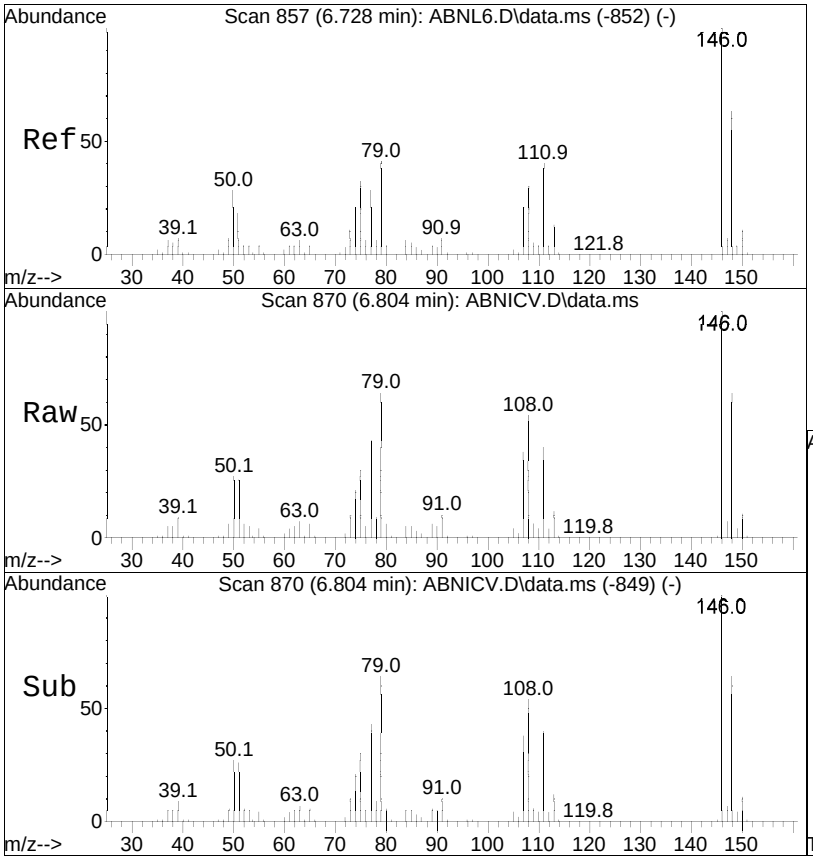


#11
1,4-Dichlorobenzene
Concen: 4.70 ug/ml
RT: 6.628 min Scan# 840
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:146 Resp: 33050

Ion	Ratio	Lower	Upper
146	100		
148	64.1	50.7	76.1
111	39.2	33.4	50.0

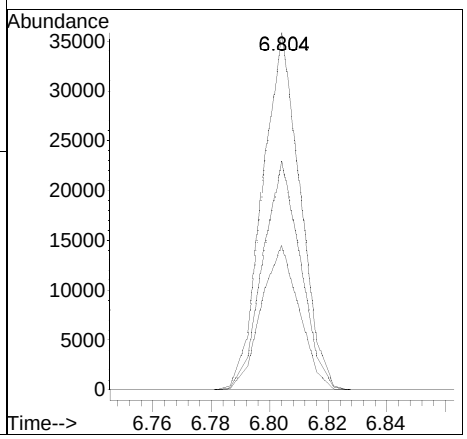


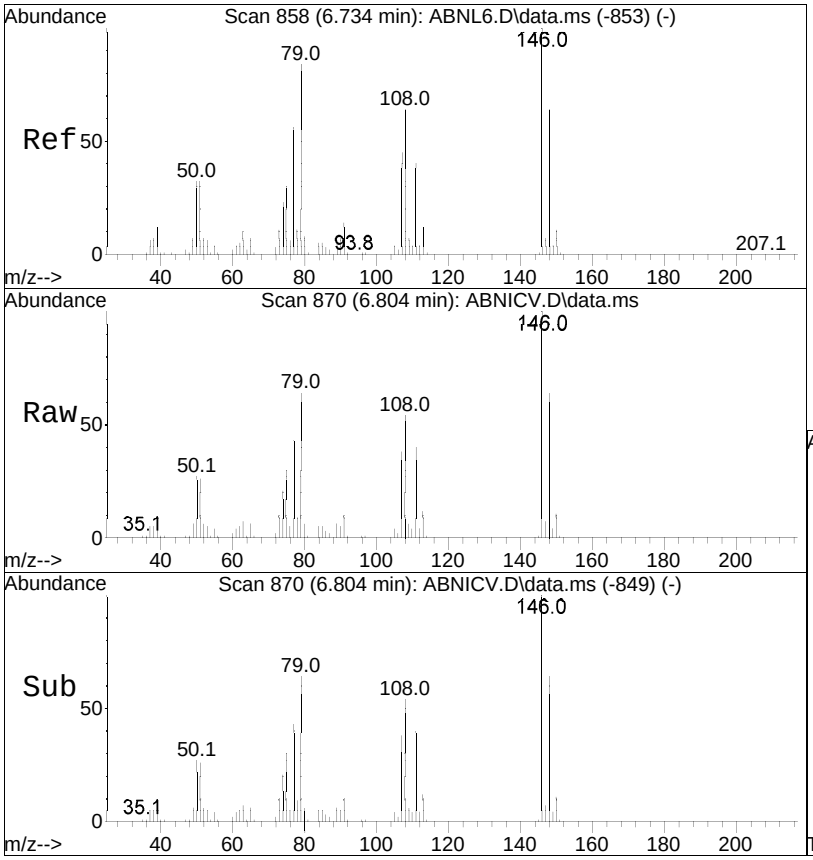


#12
1,2-Dichlorobenzene
Concen: 4.66 ug/ml
RT: 6.804 min Scan# 870
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:146 Resp: 31964

Ion	Ratio	Lower	Upper
146	100		
111	41.0	34.6	52.0
148	64.2	50.2	75.4

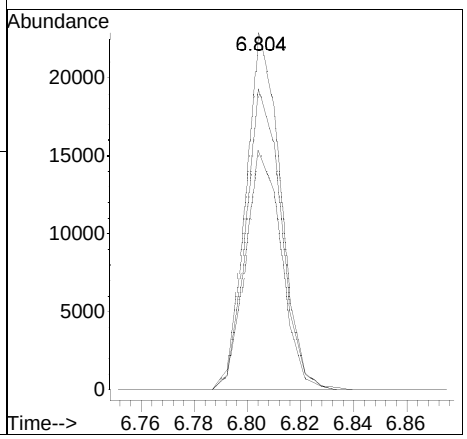


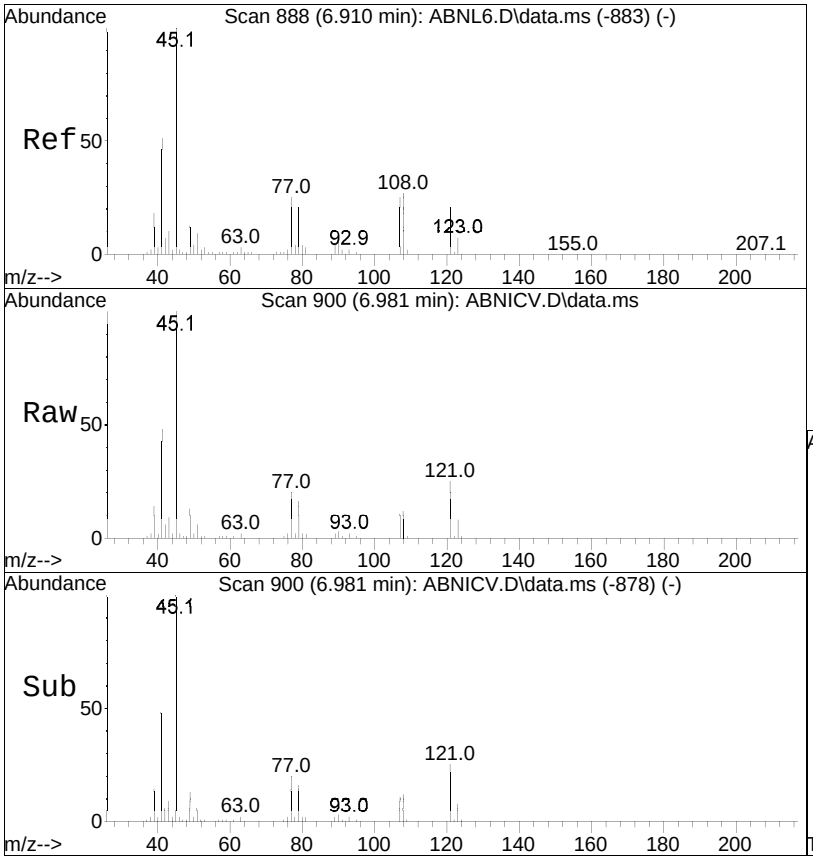


#13
Benzyl alcohol
Concen: 4.70 ug/ml
RT: 6.804 min Scan# 870
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion: 79 Resp: 20848

Ion	Ratio	Lower	Upper
79	100		
77	69.1	54.9	82.3
108	84.7	63.1	94.7

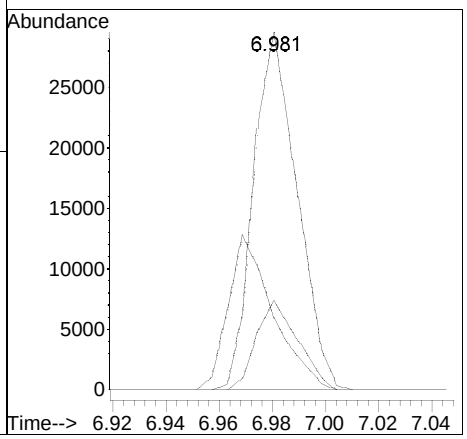


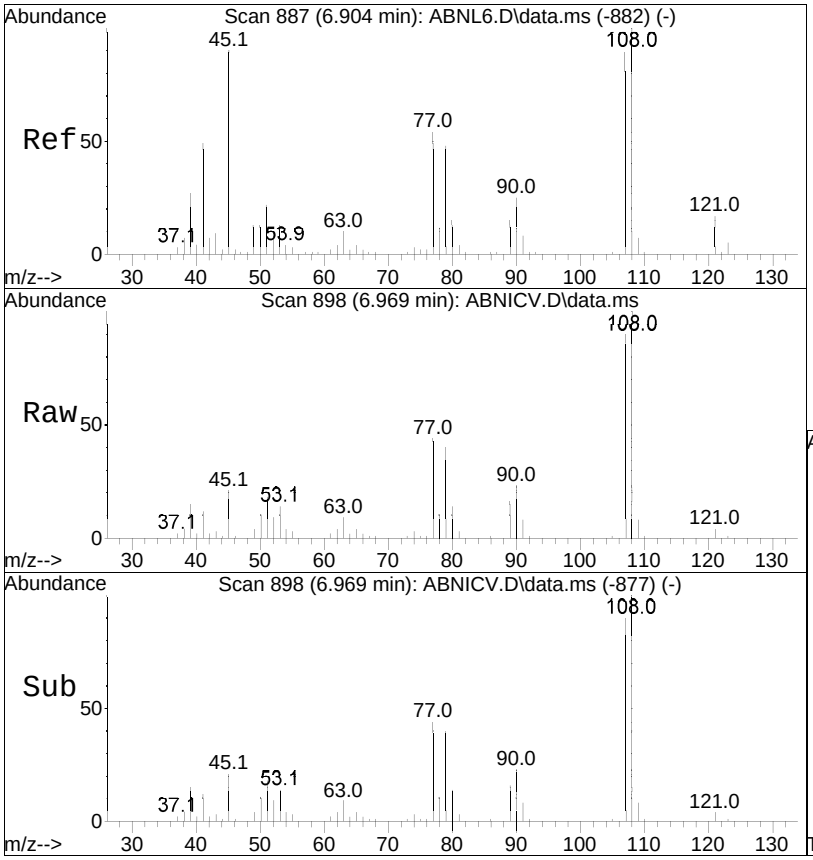


#14
Bis(2-chloroisopropyl)ether
Concen: 4.71 ug/ml
RT: 6.981 min Scan# 900
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion: 45 Resp: 33521

Ion	Ratio	Lower	Upper
45	100		
121	23.8	9.8	14.6#
77	44.5	6.1	9.1#

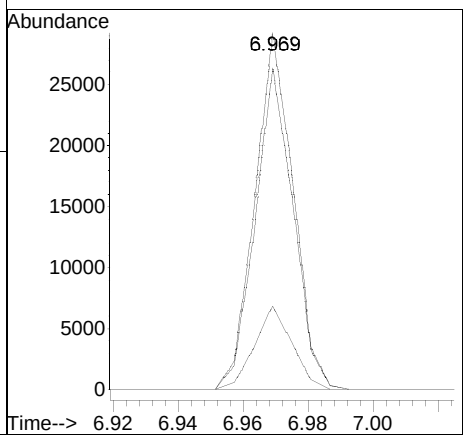


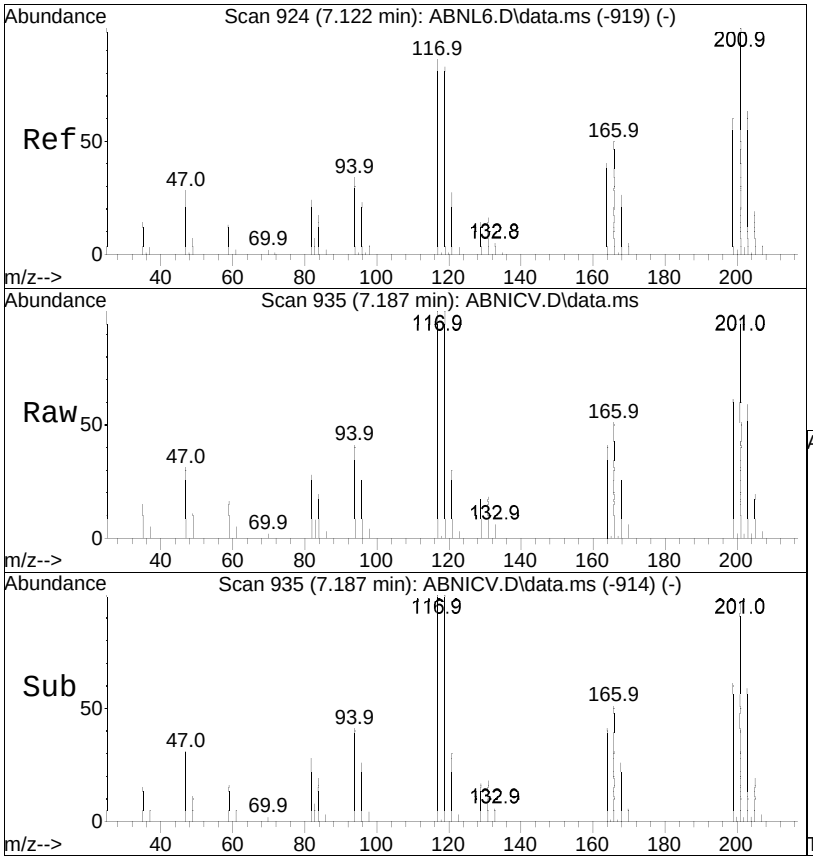


#15
2-Methylphenol
Concen: 4.82 ug/ml
RT: 6.969 min Scan# 898
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:108 Resp: 23873

Ion	Ratio	Lower	Upper
108	100		
107	89.6	70.7	106.1
90	22.9	18.7	28.1

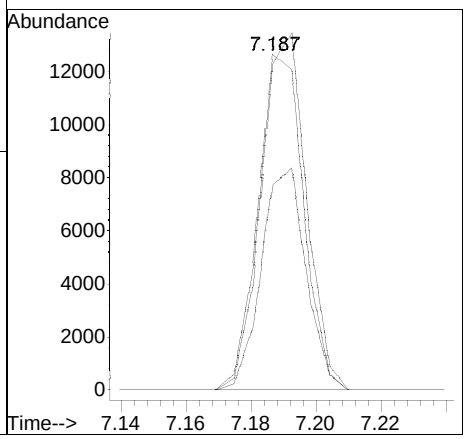


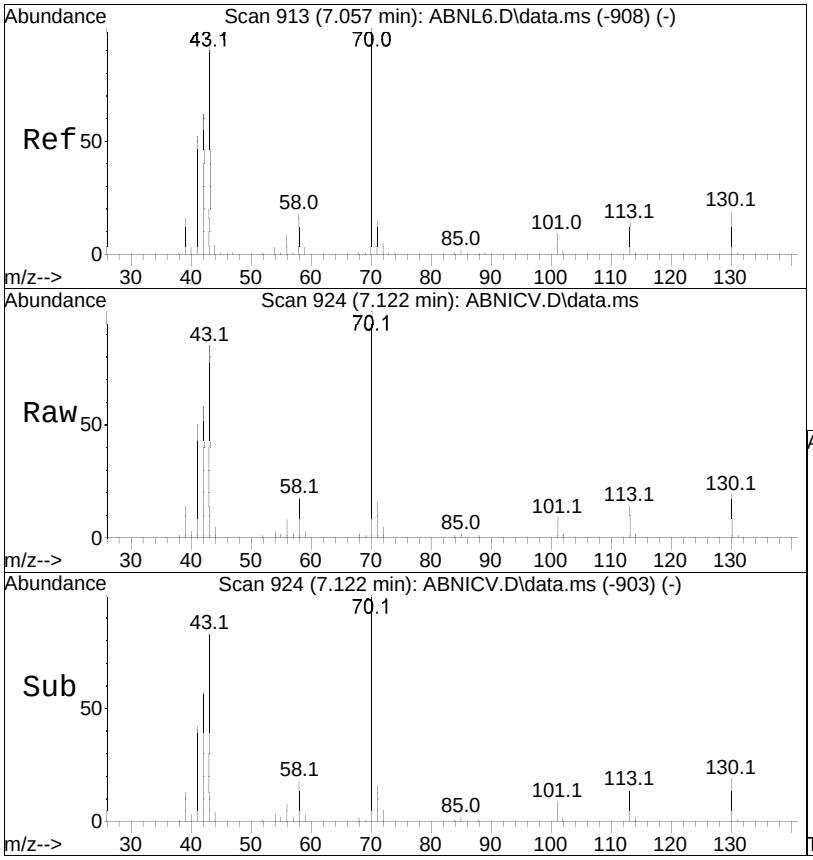


#16
Hexachloroethane
Concen: 4.94 ug/ml
RT: 7.187 min Scan# 935
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:117 Resp: 12226

Ion	Ratio	Lower	Upper
117	100		
201	105.5	58.6	87.8#
199	65.0	36.9	55.3#

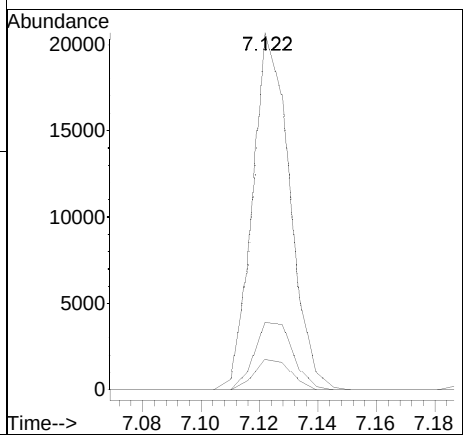


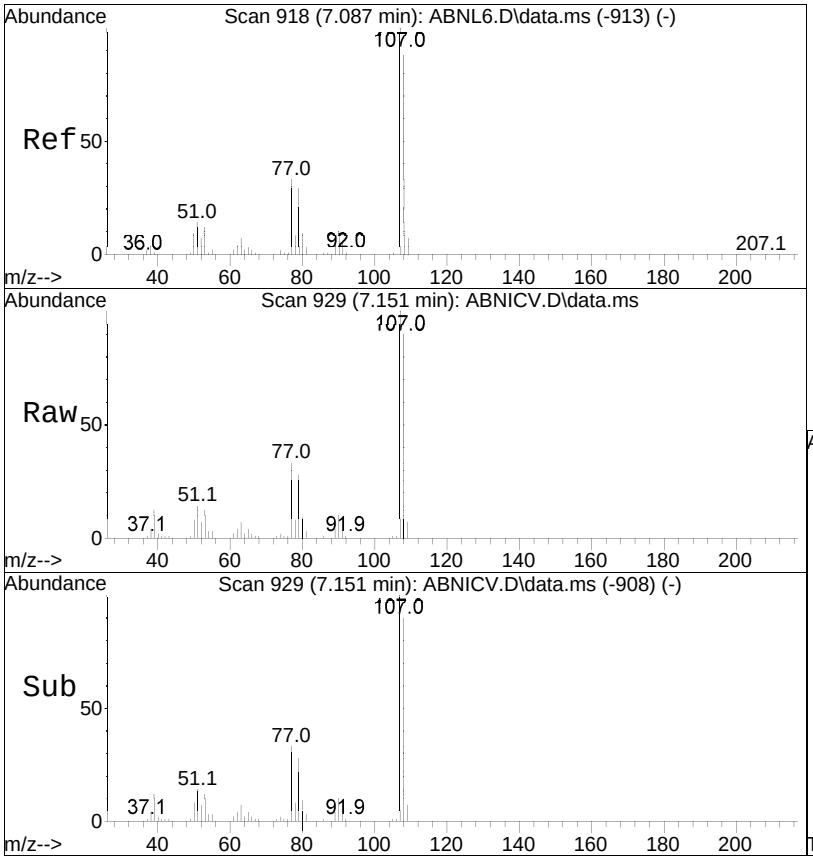


#17
n-Nitrosodi-n-propylamine
Concen: 4.80 ug/ml
RT: 7.122 min Scan# 924
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion: 70 Resp: 18192

Ion	Ratio	Lower	Upper
70	100		
130	19.7	18.2	27.4
101	8.5	7.8	11.8

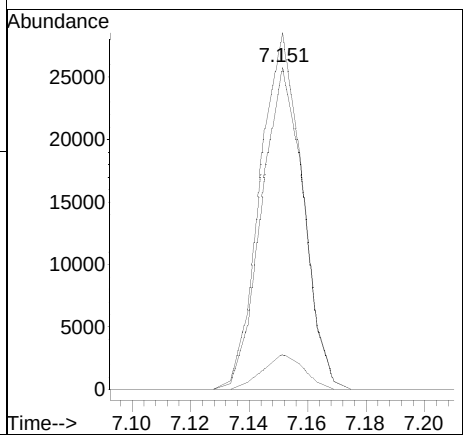


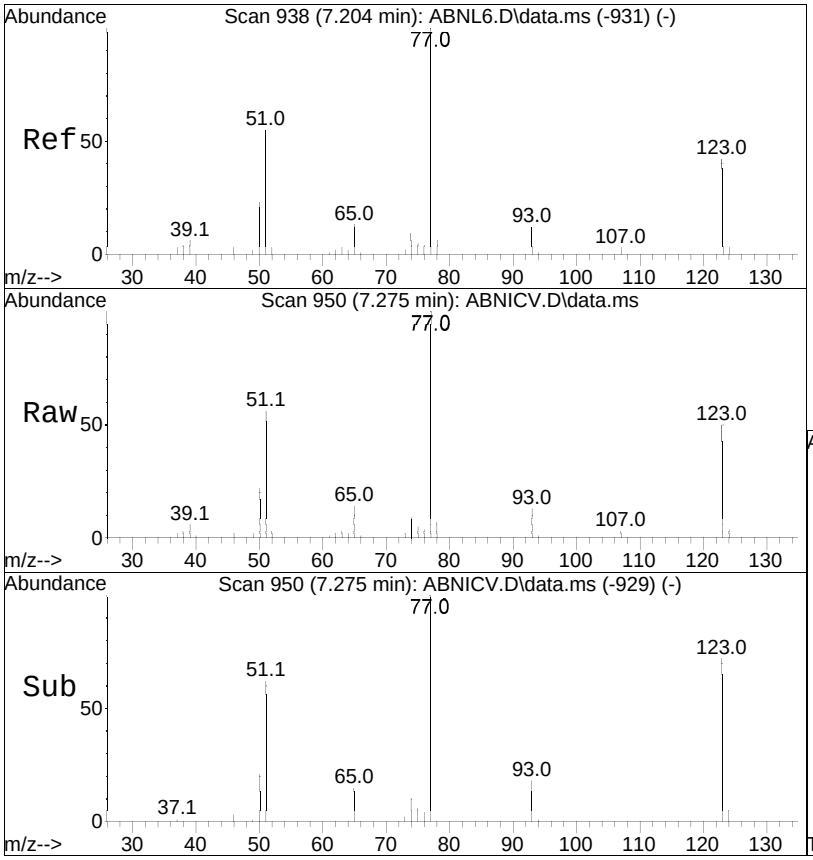


#18
3-Methylphenol/4-Methylphenol
Concen: 4.71 ug/ml
RT: 7.151 min Scan# 929
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:108 Resp: 25701

Ion	Ratio	Lower	Upper
108	100		
107	111.5	88.6	132.8
90	10.7	8.8	13.2

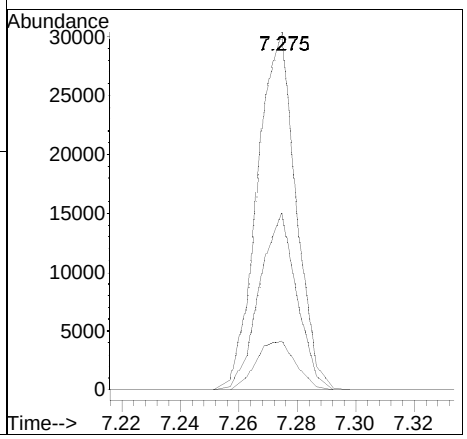


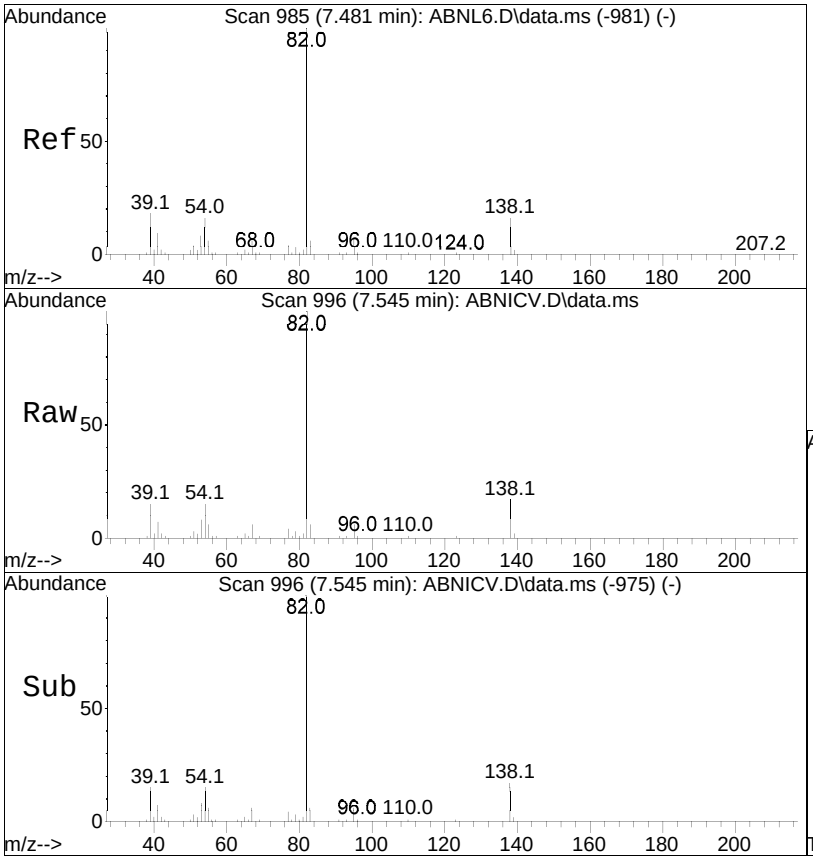


#20
Nitrobenzene
Concen: 4.79 ug/ml
RT: 7.275 min Scan# 950
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion: 77 Resp: 27625

Ion	Ratio	Lower	Upper
77	100		
123	47.9	36.3	54.5
65	14.2	11.6	17.4

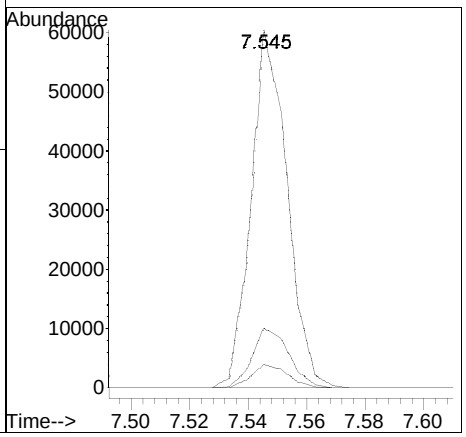


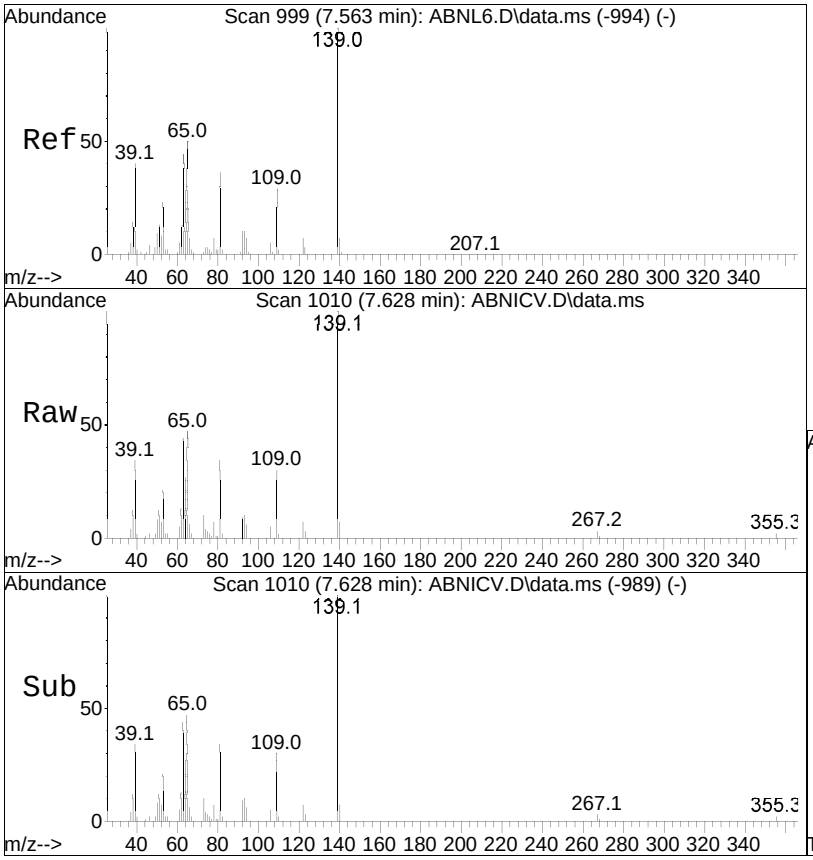


#21
Isophorone
Concen: 4.94 ug/ml
RT: 7.545 min Scan# 996
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion: 82 Resp: 50933

Ion	Ratio	Lower	Upper
82	100		
138	17.1	14.7	22.1
95	6.6	5.2	7.8

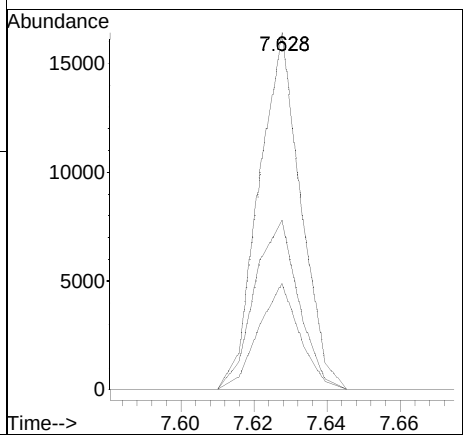


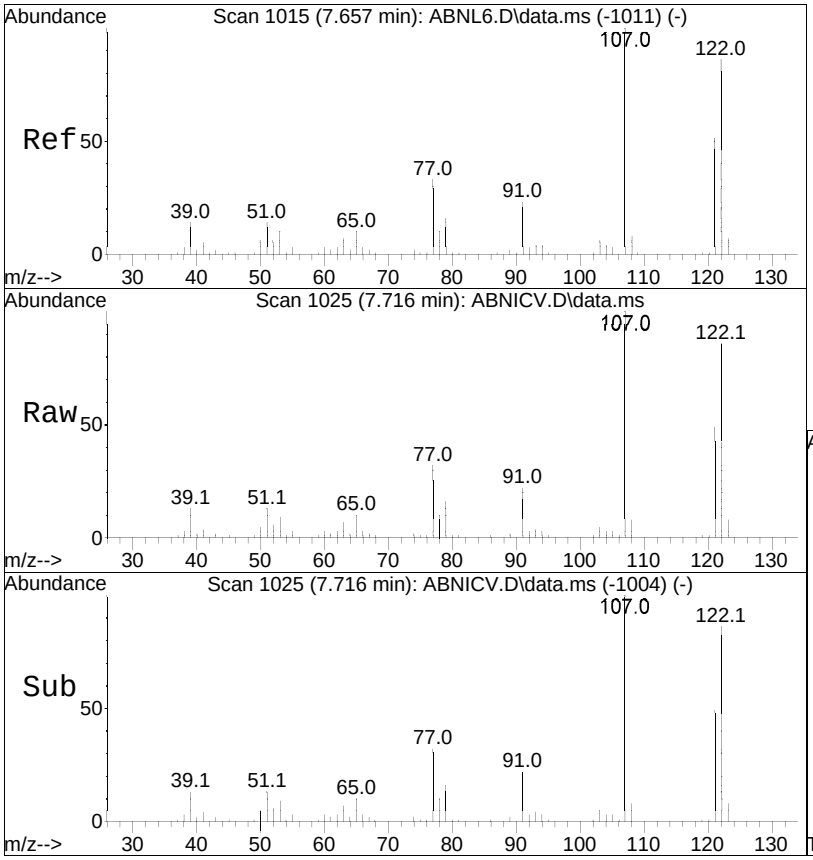


#22
2-Nitrophenol
Concen: 4.44 ug/ml
RT: 7.628 min Scan# 1010
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:139 Resp: 13021

Ion	Ratio	Lower	Upper
139	100		
109	29.6	19.4	29.0#
65	50.3	46.1	69.1

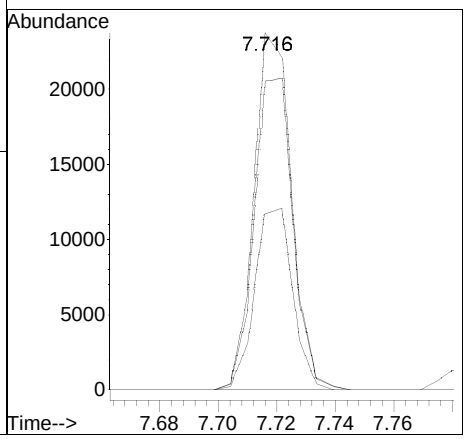


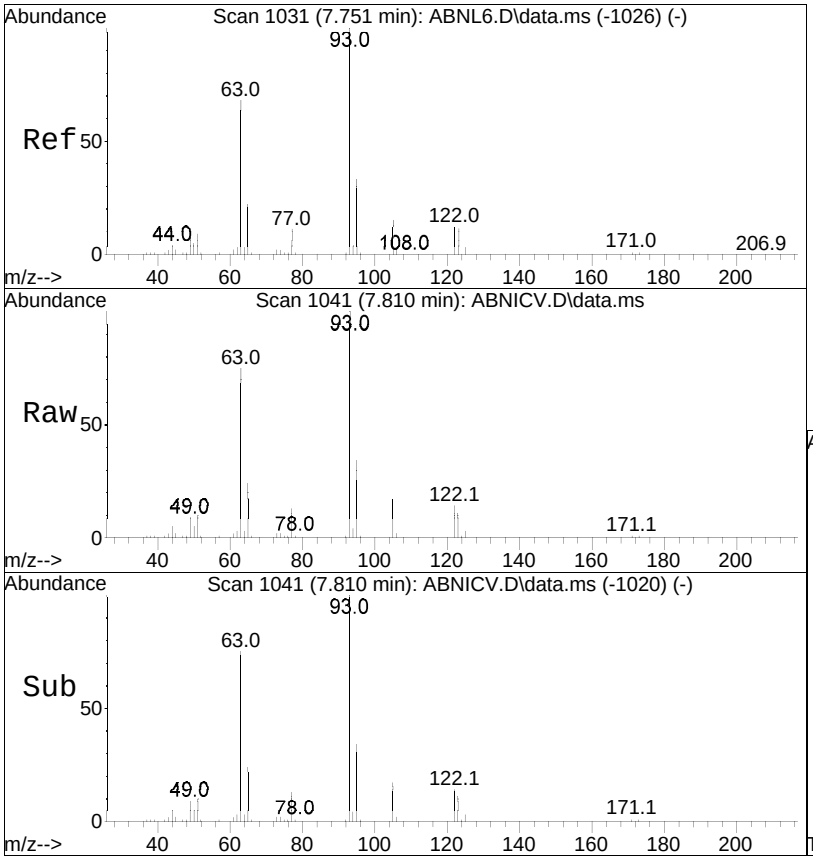


#23
2,4-Dimethylphenol
Concen: 4.44 ug/ml
RT: 7.716 min Scan# 1025
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:107 Resp: 21092

Ion	Ratio	Lower	Upper
107	100		
121	51.6	40.0	60.0
122	89.9	70.2	105.4

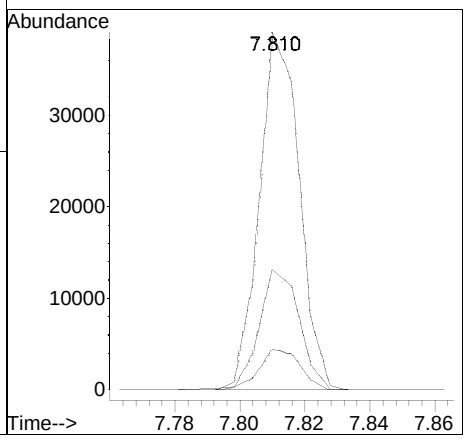


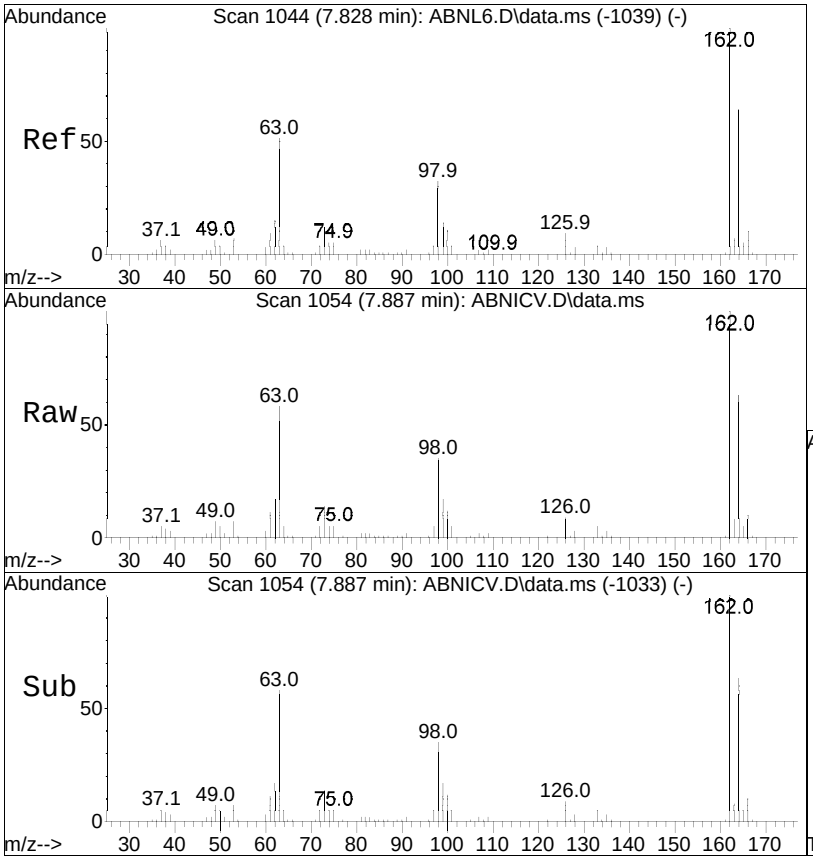


#24
Bis(2-chloroethoxy)methane
Concen: 4.74 ug/ml
RT: 7.810 min Scan# 1041
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion: 93 Resp: 33047

Ion	Ratio	Lower	Upper
93	100		
95	33.9	25.8	38.8
123	12.4	10.1	15.1

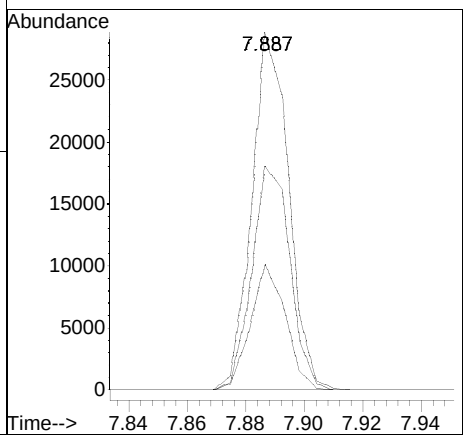


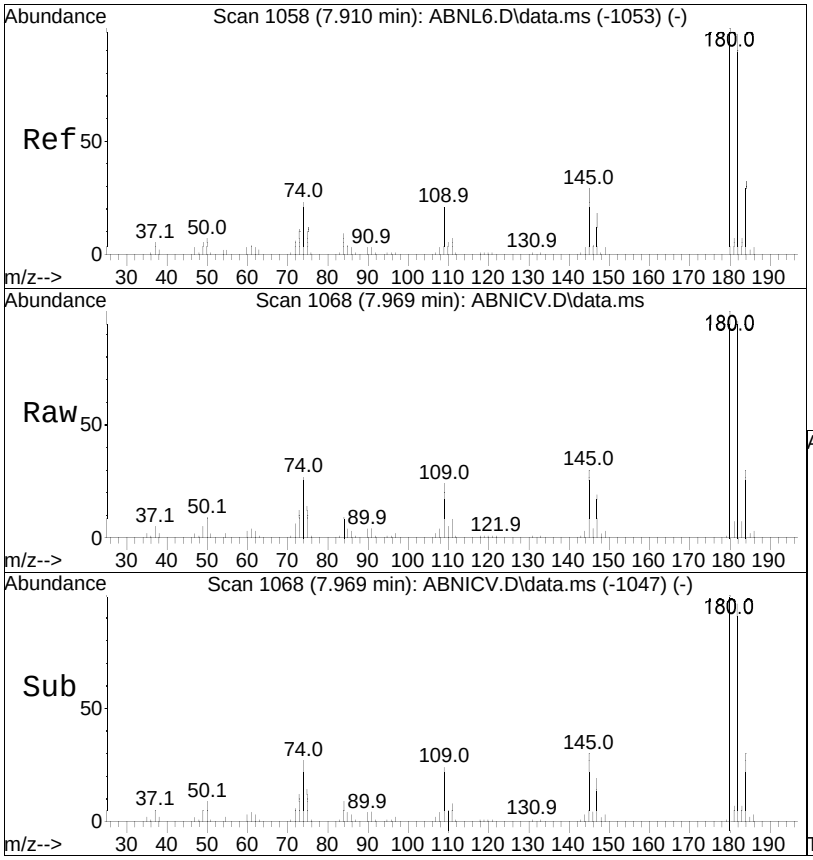


#25
2,4-Dichlorophenol
Concen: 4.81 ug/ml
RT: 7.887 min Scan# 1054
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:162 Resp: 24986

Ion	Ratio	Lower	Upper
162	100		
164	64.9	51.0	76.4
98	33.6	32.2	48.2

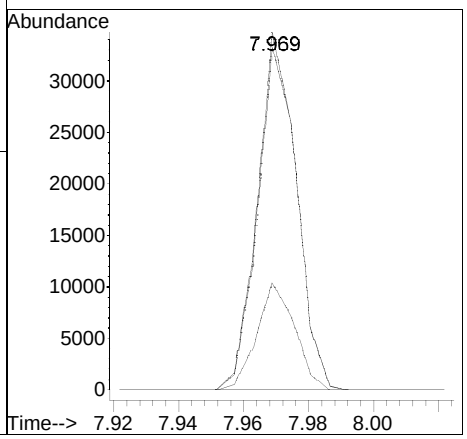


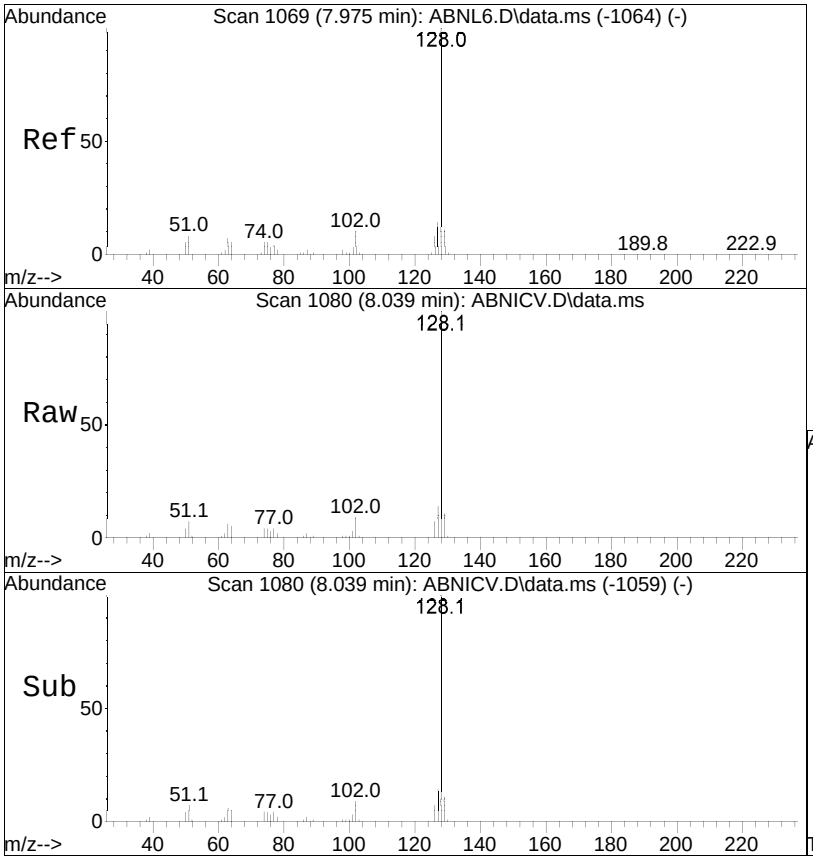


#26
1,2,4-Trichlorobenzene
Concen: 4.61 ug/ml
RT: 7.969 min Scan# 1068
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:180 Resp: 28492

Ion	Ratio	Lower	Upper
180	100		
182	97.4	76.0	114.0
145	29.3	25.7	38.5

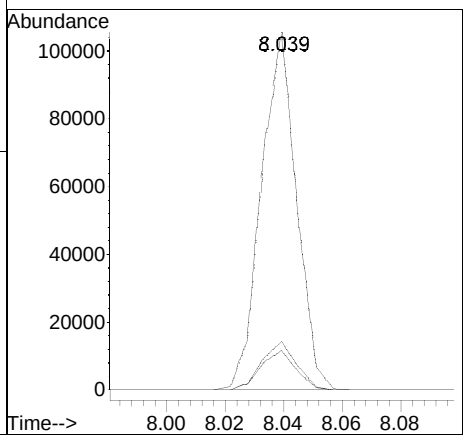


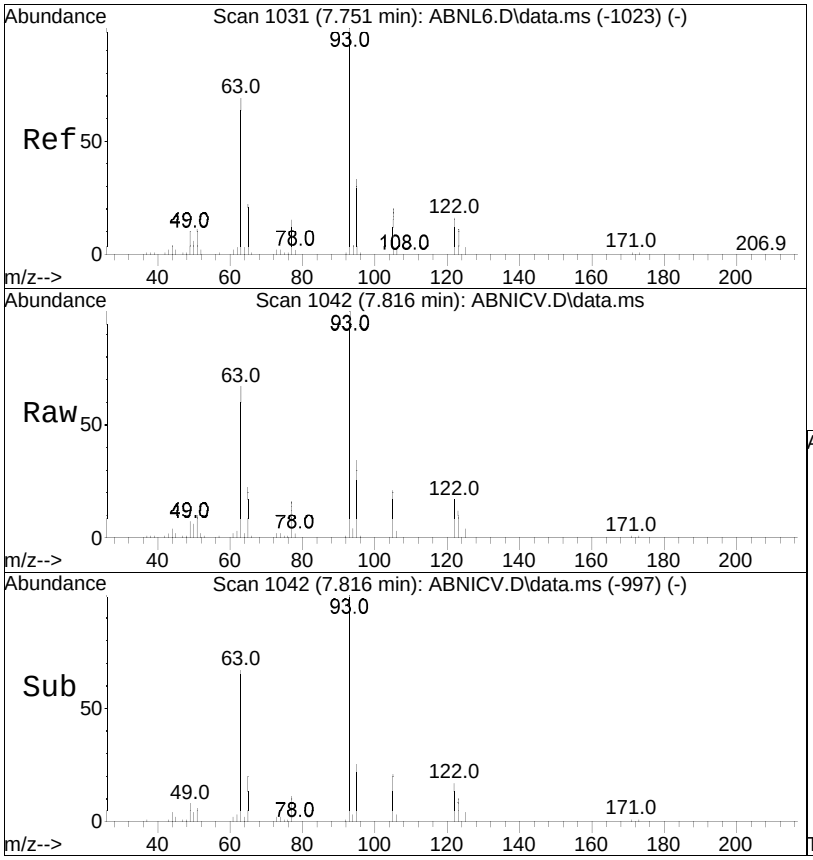


#36
Naphthalene
Concen: 4.50 ug/ml
RT: 8.039 min Scan# 1080
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:128 Resp: 87133

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.7	13.1
127	13.4	10.3	15.5

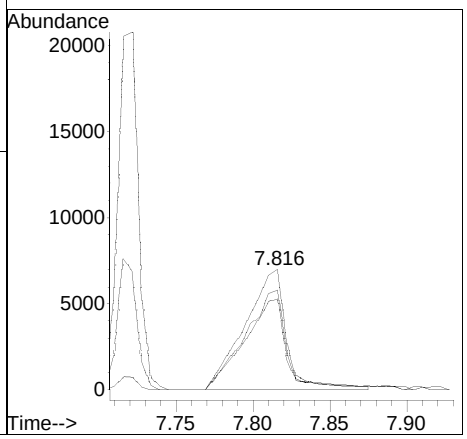


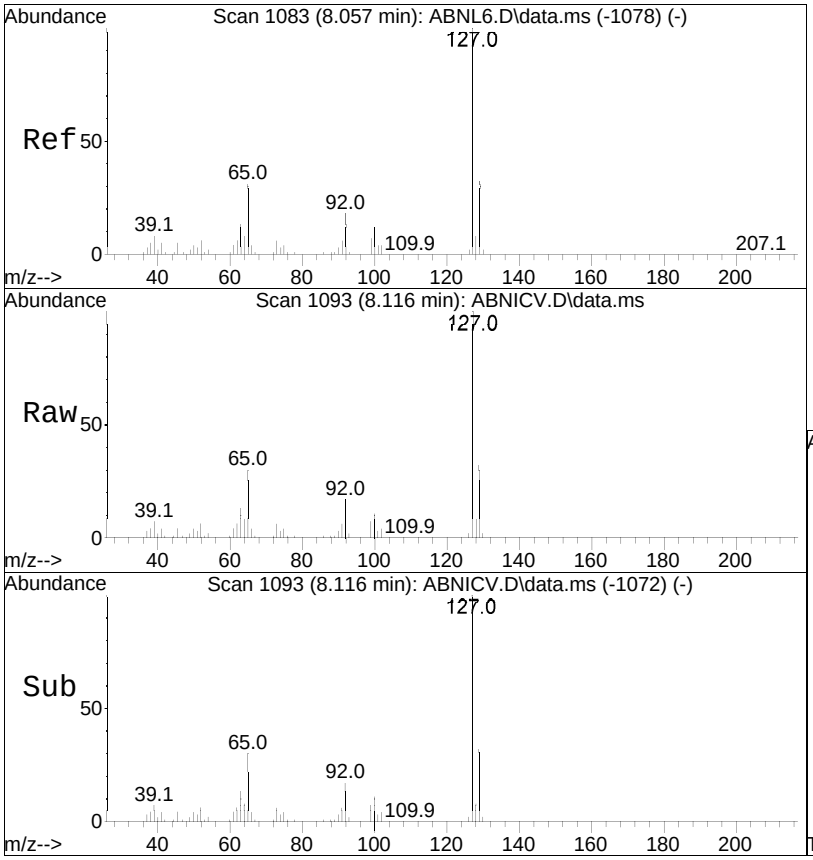


#37
Benzoic Acid
Concen: 4.34 ug/ml
RT: 7.816 min Scan# 1042
Delta R.T. 0.012 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:105 Resp: 13322

Ion	Ratio	Lower	Upper
105	100		
122	84.2	59.9	89.9
77	75.7	60.1	90.1

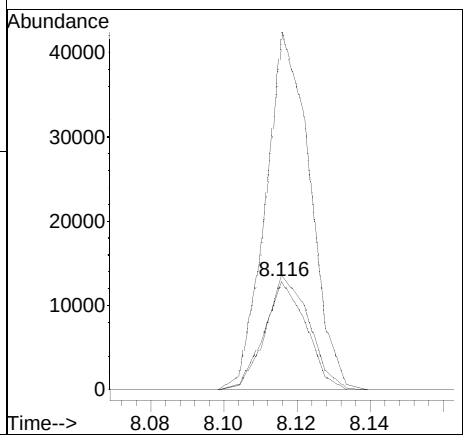


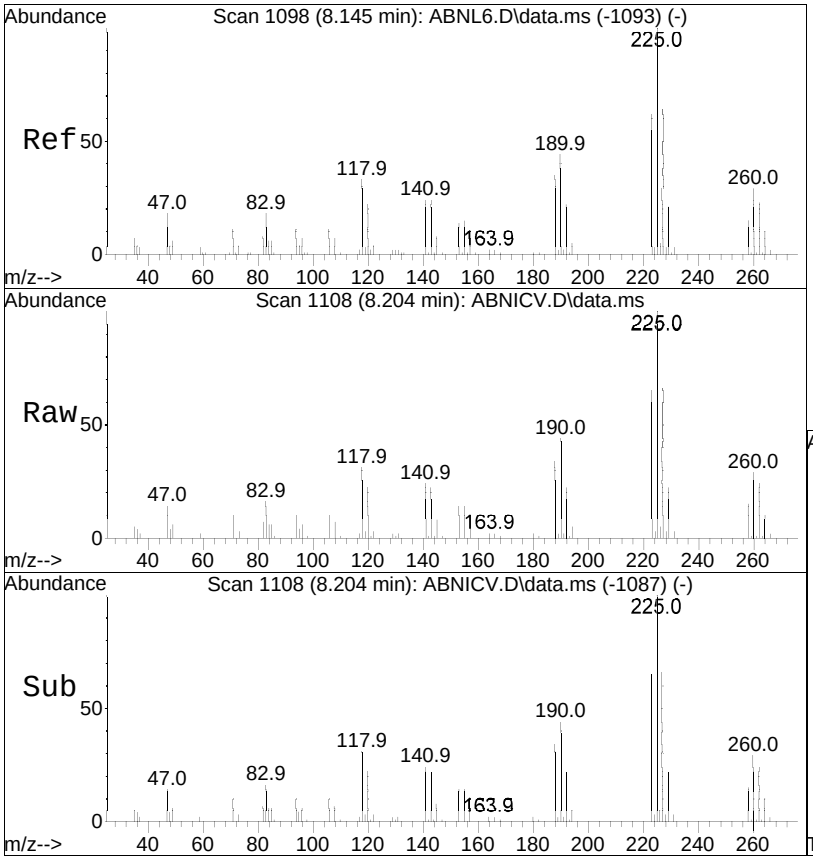


#38
4-Chloroaniline
Concen: 4.75 ug/ml
RT: 8.116 min Scan# 1093
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion: 65 Resp: 10273

Ion	Ratio	Lower	Upper
65	100		
127	344.7	237.6	356.4
129	108.5	76.3	114.5

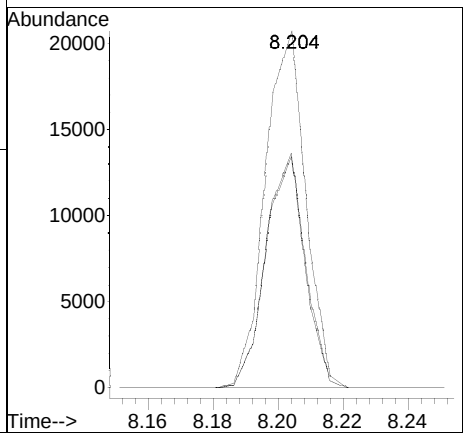


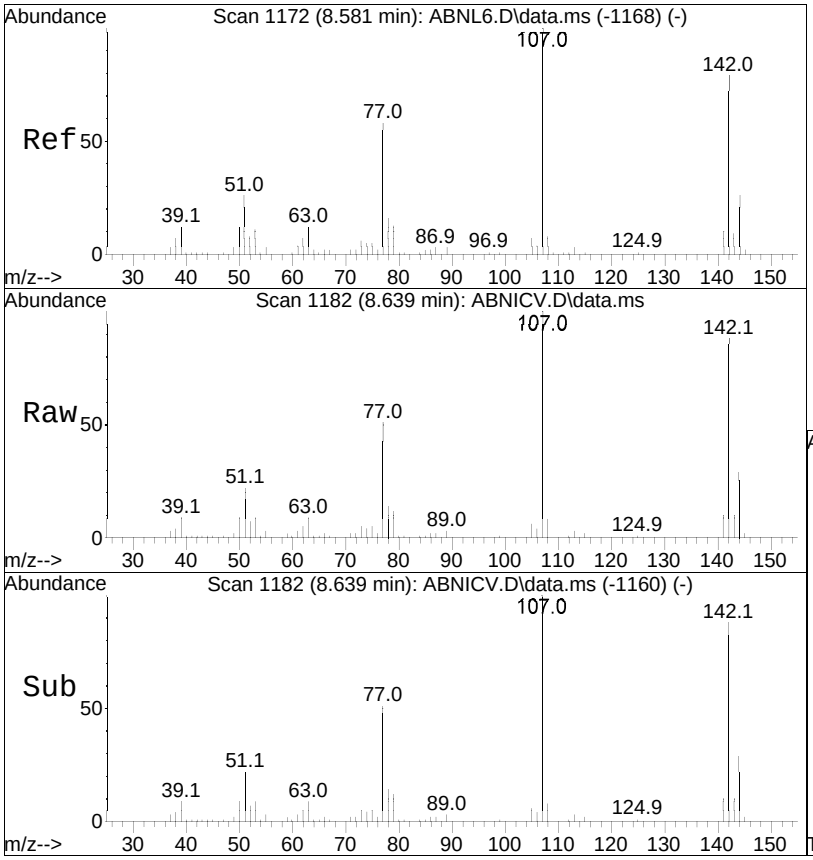


#39
Hexachlorobutadiene
Concen: 4.66 ug/ml
RT: 8.204 min Scan# 1108
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:225 Resp: 17854

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.3	75.5
227	64.6	52.2	78.2

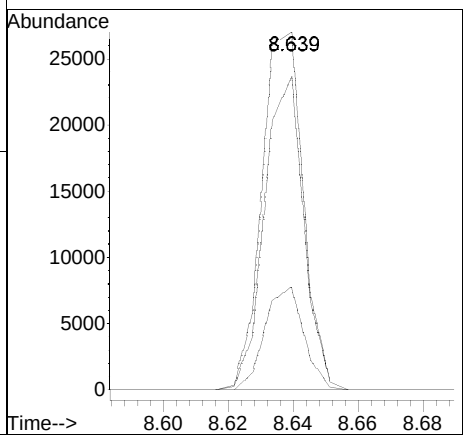


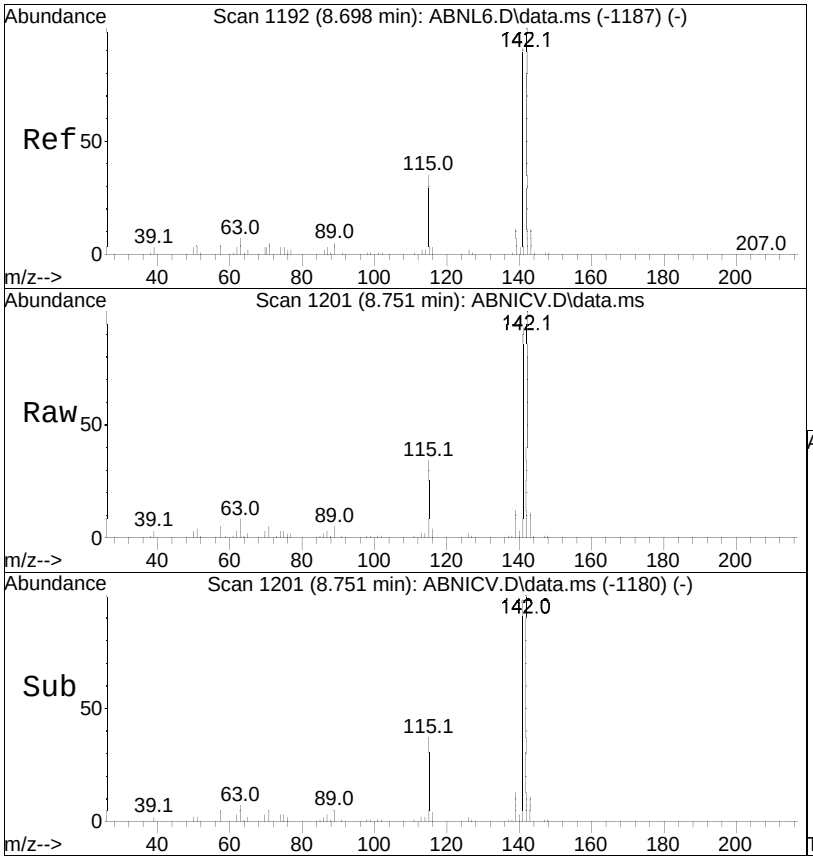


#40
p-Chloro-m-cresol
Concen: 4.89 ug/ml
RT: 8.639 min Scan# 1182
Delta R.T. 0.005 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:107 Resp: 23667

Ion	Ratio	Lower	Upper
107	100		
144	27.3	20.9	31.3
142	83.0	66.1	99.1

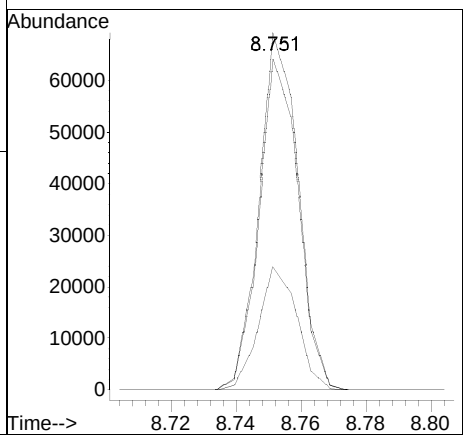


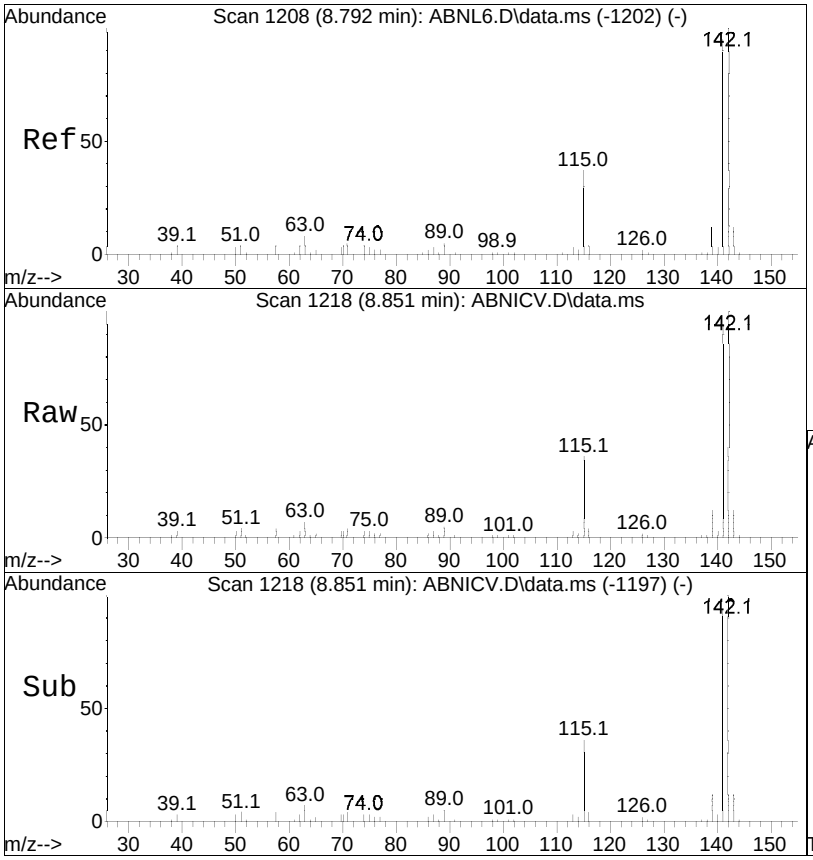


#41
2-Methylnaphthalene
Concen: 4.58 ug/ml
RT: 8.751 min Scan# 1201
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:142 Resp: 57763

Ion	Ratio	Lower	Upper
142	100		
141	92.7	69.6	104.4
115	34.1	26.6	40.0

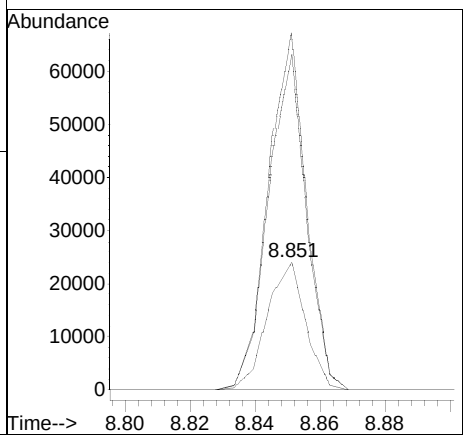


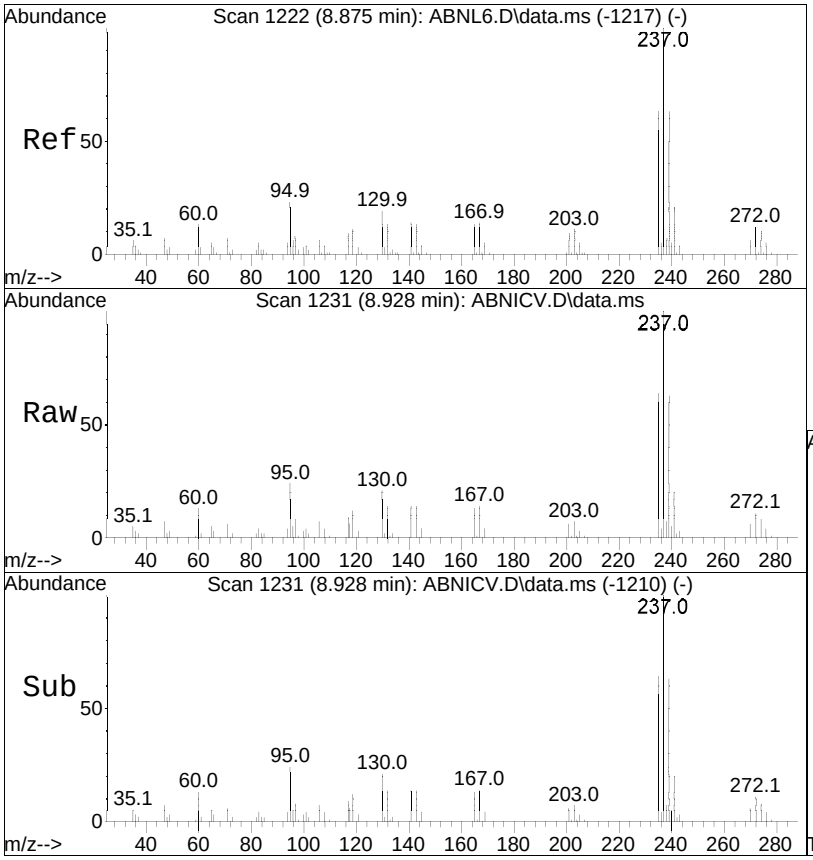


#42
1-Methylnaphthalene
Concen: 4.84 ug/ml
RT: 8.851 min Scan# 1218
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:115 Resp: 19728

Ion	Ratio	Lower	Upper
115	100		
141	259.4	207.8	311.6
142	276.4	226.8	340.2

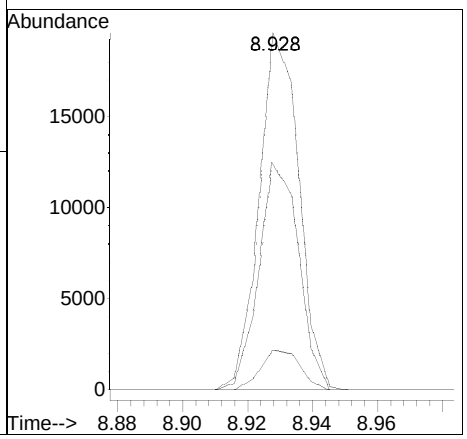


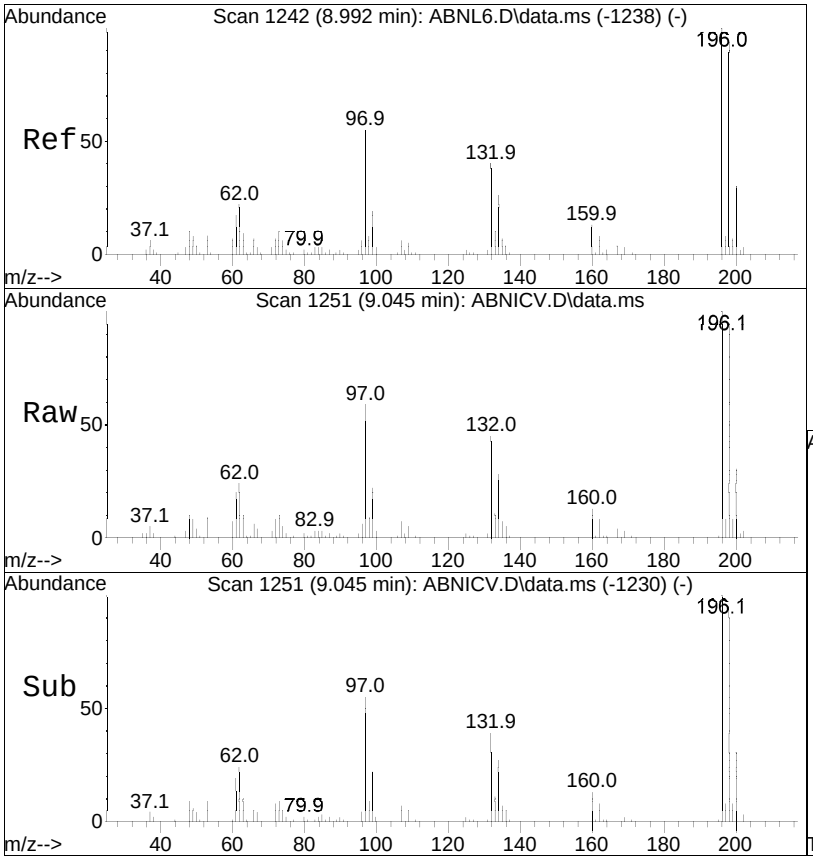


#43
Hexachlorocyclopentadiene
Concen: 4.57 ug/ml
RT: 8.928 min Scan# 1231
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:237 Resp: 16567

Ion	Ratio	Lower	Upper
237	100		
235	63.8	49.7	74.5
272	11.2	9.8	14.6

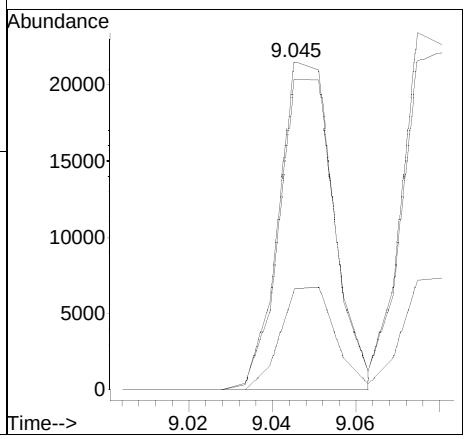


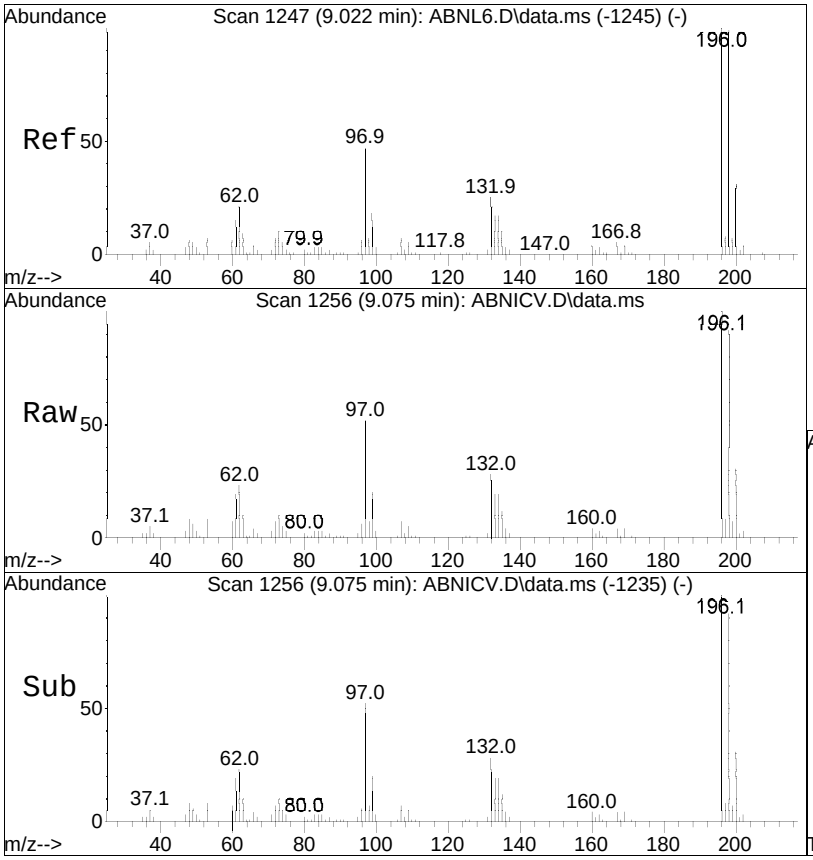


#44
2,4,6-Trichlorophenol
Concen: 4.89 ug/ml
RT: 9.045 min Scan# 1251
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:196 Resp: 19600

Ion	Ratio	Lower	Upper
196	100		
198	96.2	77.5	116.3
200	31.2	23.8	35.6

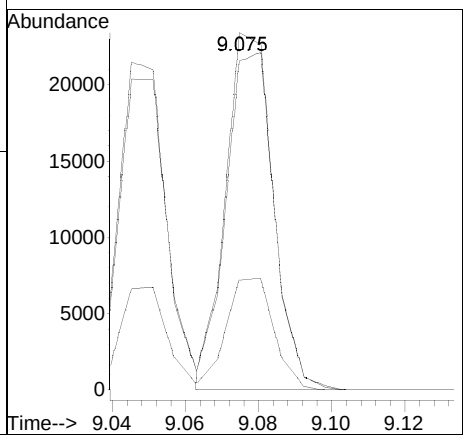


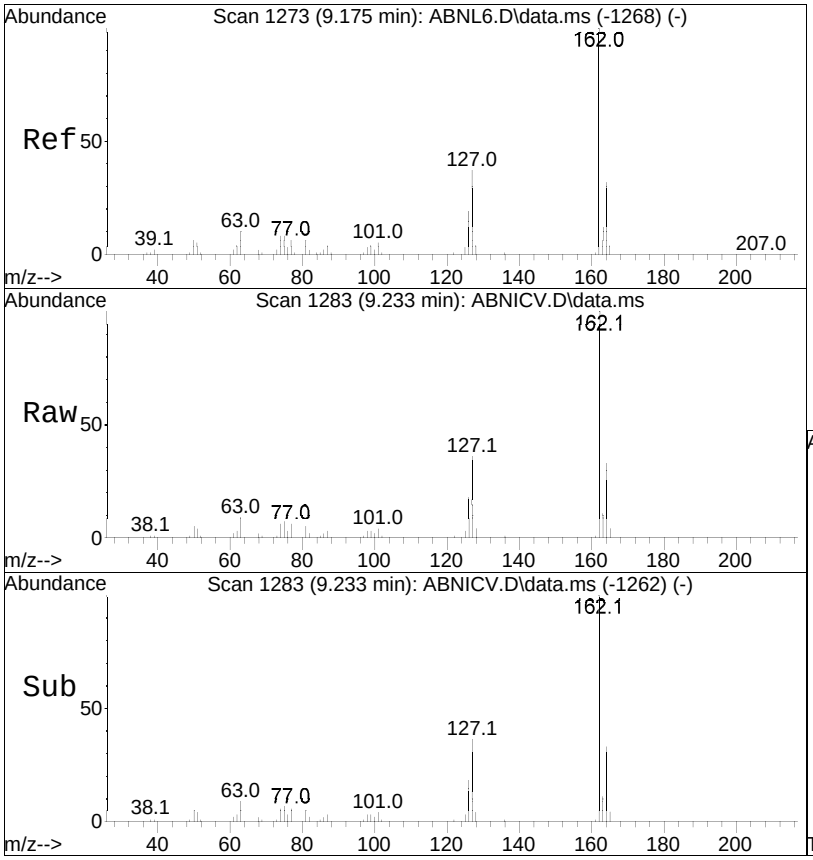


#45
2,4,5-Trichlorophenol
Concen: 4.96 ug/ml
RT: 9.075 min Scan# 1256
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:196 Resp: 21125

Ion	Ratio	Lower	Upper
196	100		
200	31.4	25.4	38.0
198	95.4	78.0	117.0

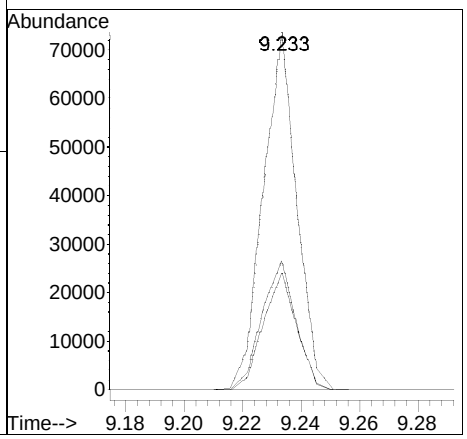


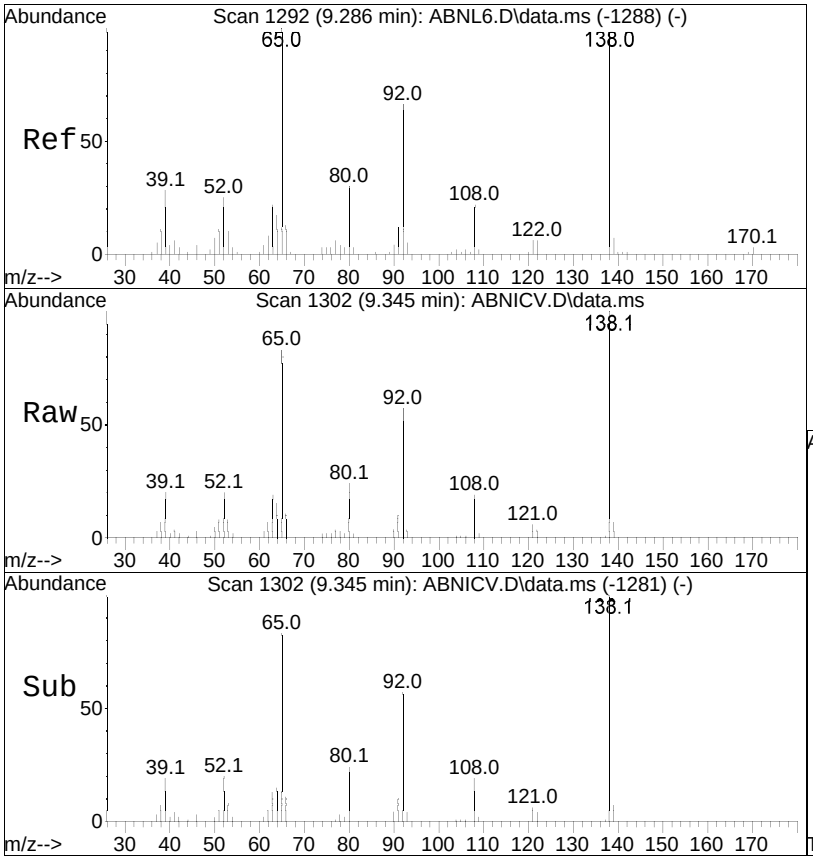


#47
2-Chloronaphthalene
Concen: 4.42 ug/ml
RT: 9.233 min Scan# 1283
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:162 Resp: 57688

Ion	Ratio	Lower	Upper
162	100		
127	37.0	32.2	48.4
164	33.0	25.7	38.5

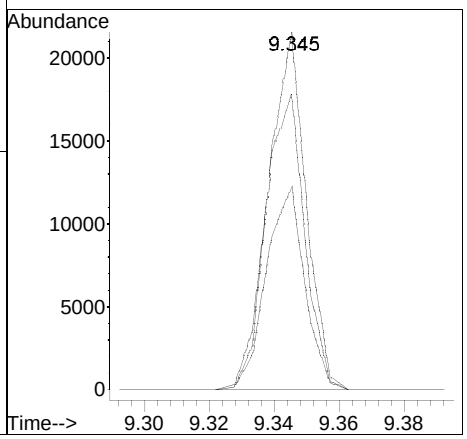


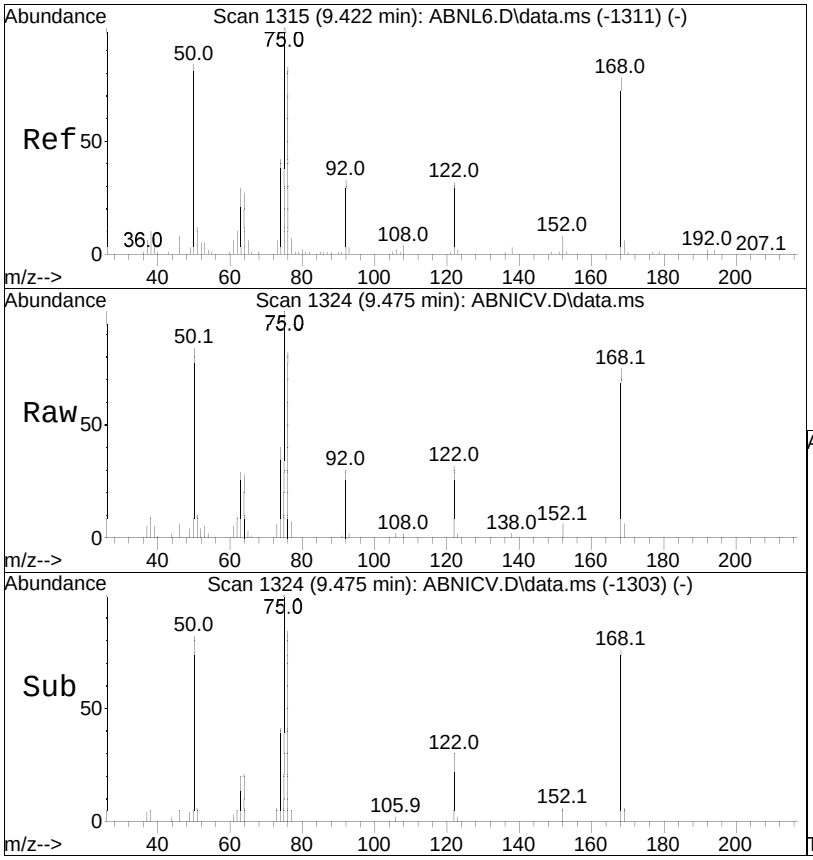


#48
2-Nitroaniline
Concen: 4.84 ug/ml
RT: 9.345 min Scan# 1302
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:138 Resp: 16914

Ion	Ratio	Lower	Upper
138	100		
92	59.0	53.5	80.3
65	88.2	86.3	129.5

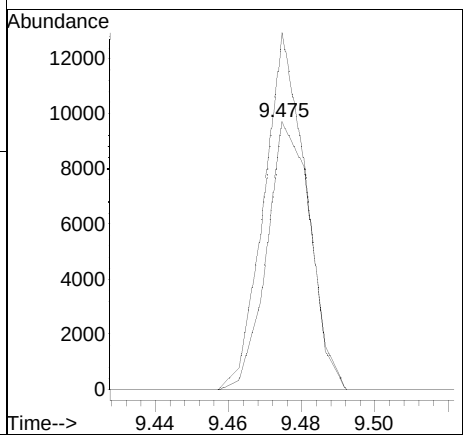


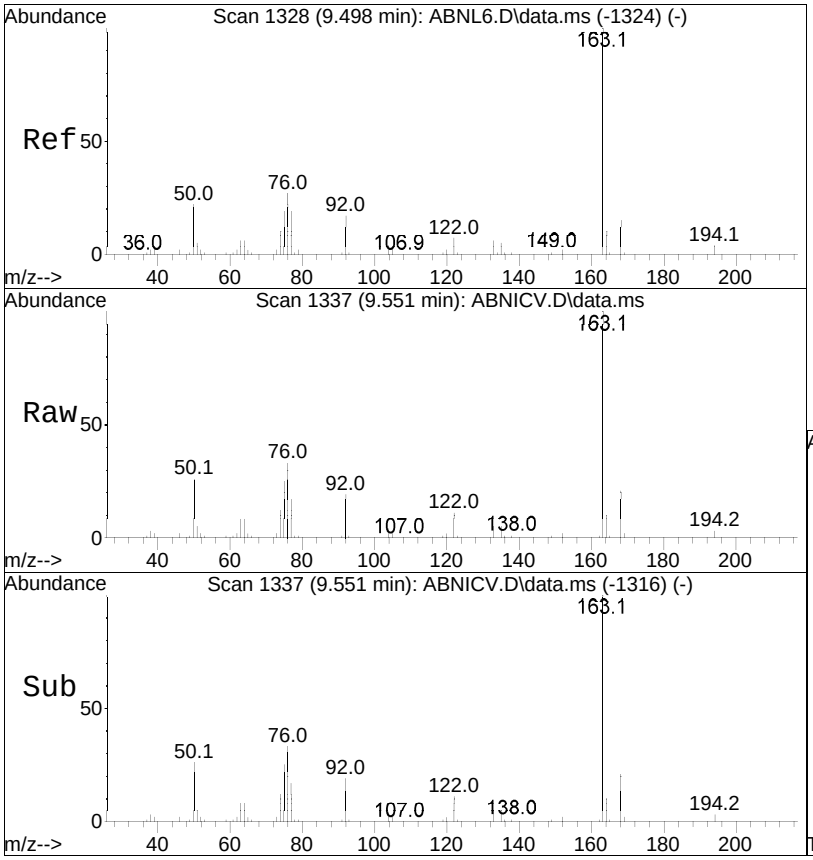


#49
1,4-Dinitrobenzene
Concen: 4.30 ug/ml
RT: 9.475 min Scan# 1324
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:168 Resp: 8087

Ion	Ratio	Lower	Upper
168	100		
75	126.9	121.8	182.8

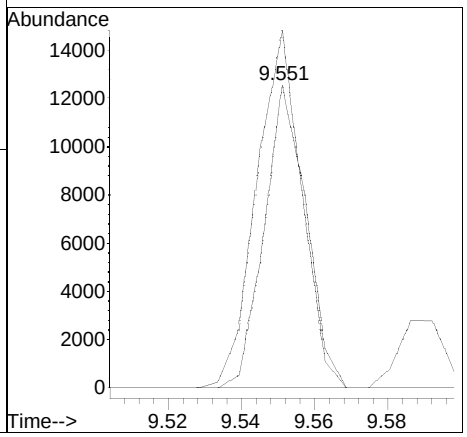


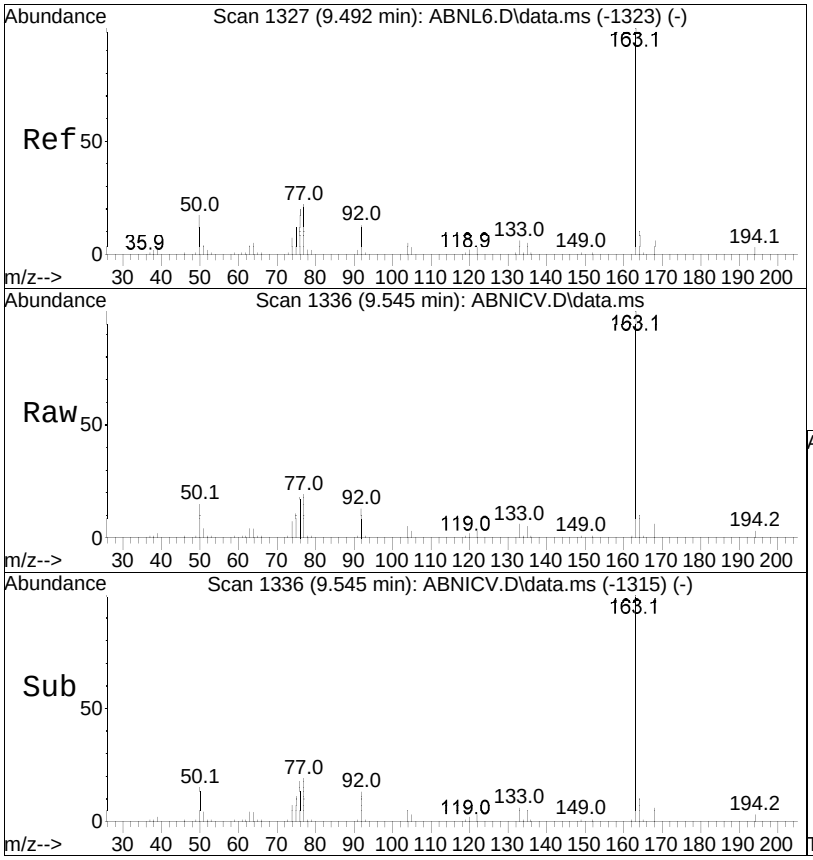


#50
1,3-Dinitrobenzene
Concen: 4.49 ug/ml
RT: 9.551 min Scan# 1337
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:168 Resp: 9925

Ion	Ratio	Lower	Upper
168	100		
75	127.4	22.7	34.1#

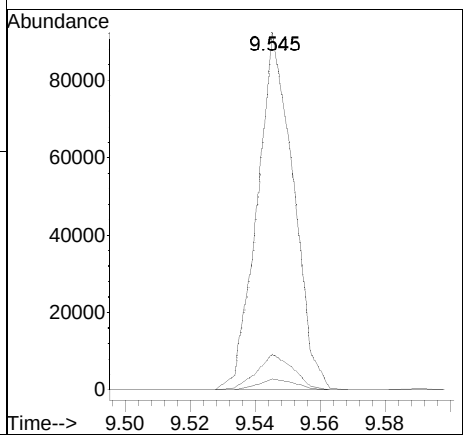


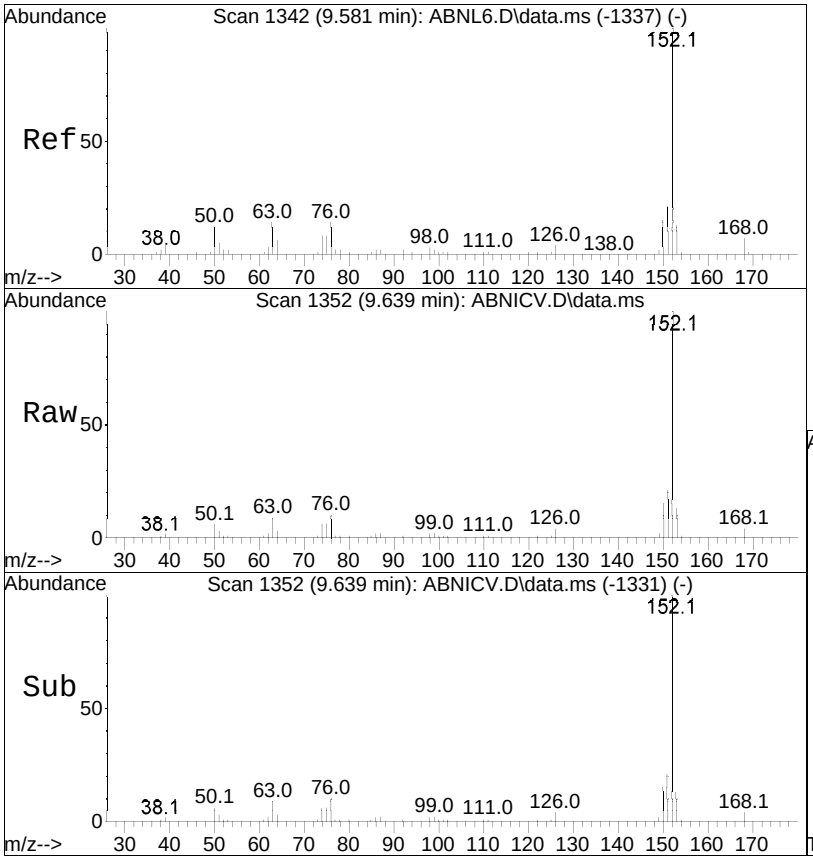


#51
Dimethyl phthalate
Concen: 4.77 ug/ml
RT: 9.545 min Scan# 1336
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:163 Resp: 70425

Ion	Ratio	Lower	Upper
163	100		
194	3.1	3.5	5.3#
164	10.2	7.9	11.9

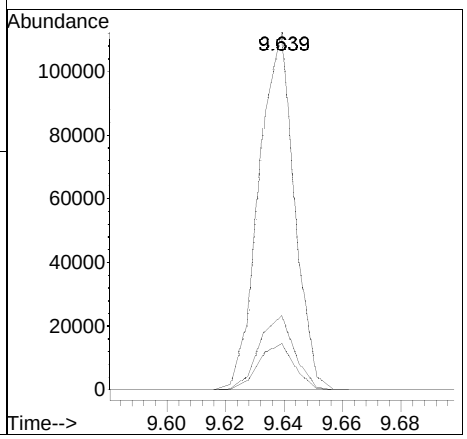


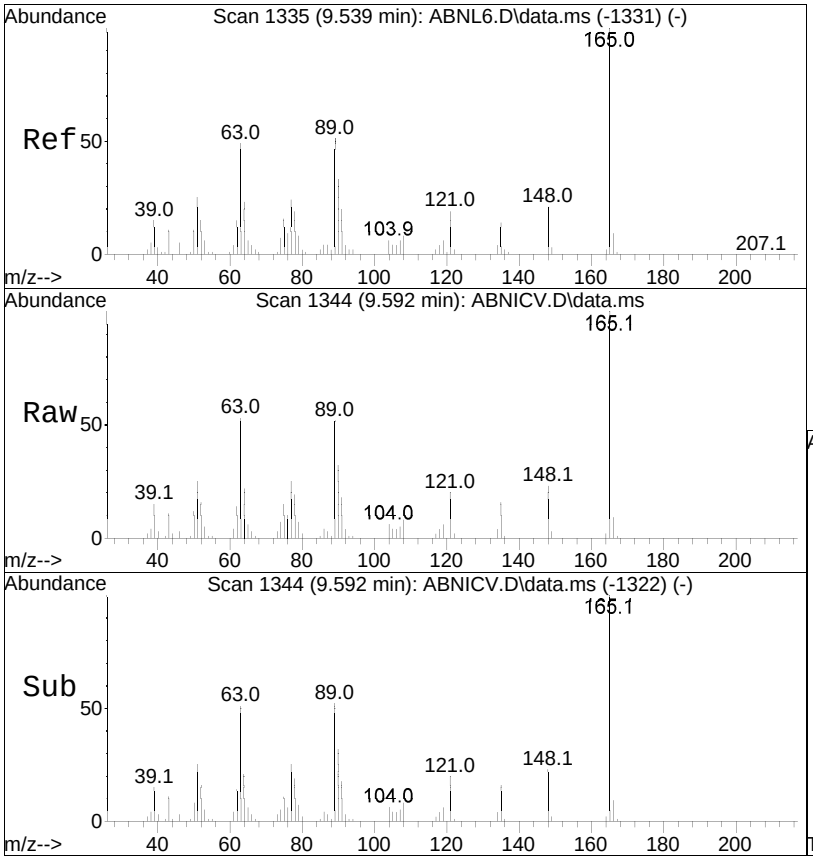


#52
Acenaphthylene
Concen: 4.82 ug/ml
RT: 9.639 min Scan# 1352
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:152 Resp: 93537

Ion	Ratio	Lower	Upper
152	100		
151	20.8	15.8	23.6
153	13.1	10.5	15.7

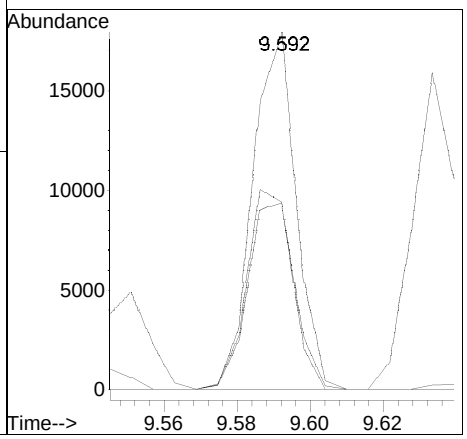


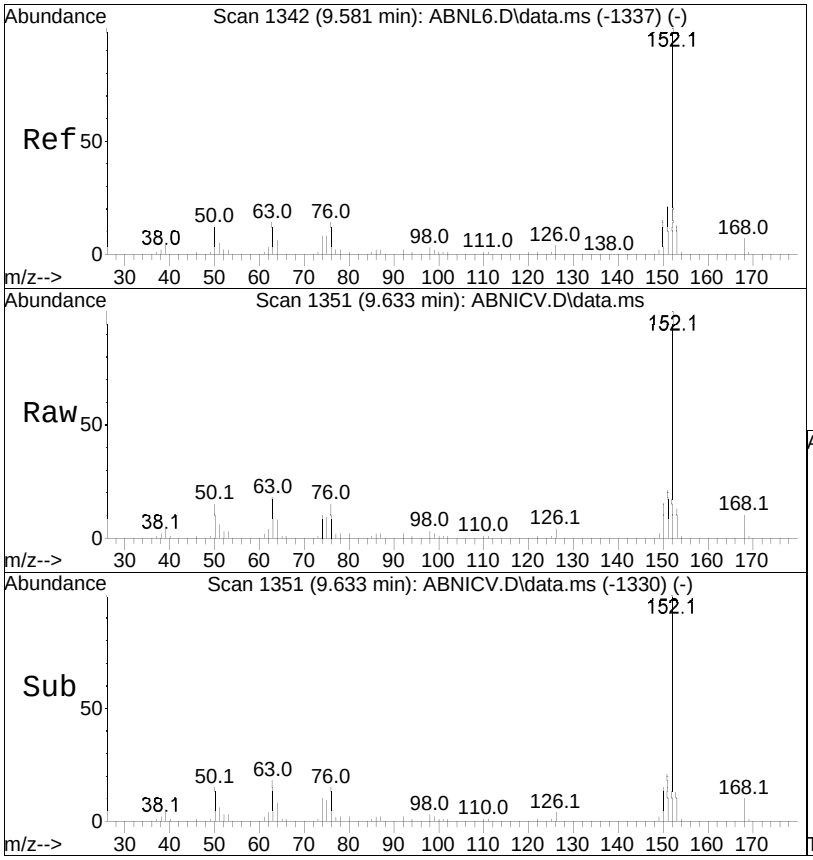


#53
2,6-Dinitrotoluene
Concen: 5.11 ug/ml
RT: 9.592 min Scan# 1344
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:165 Resp: 14781

Ion	Ratio	Lower	Upper
165	100		
89	57.0	54.2	81.2
63	58.6	64.2	96.2#

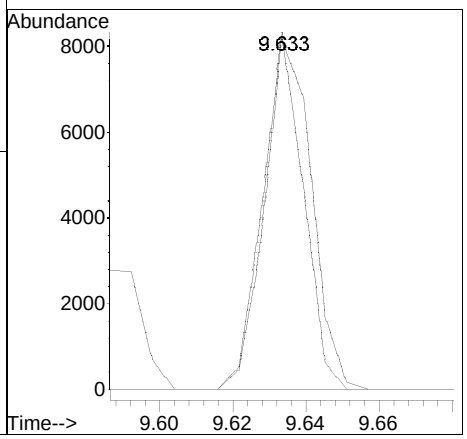


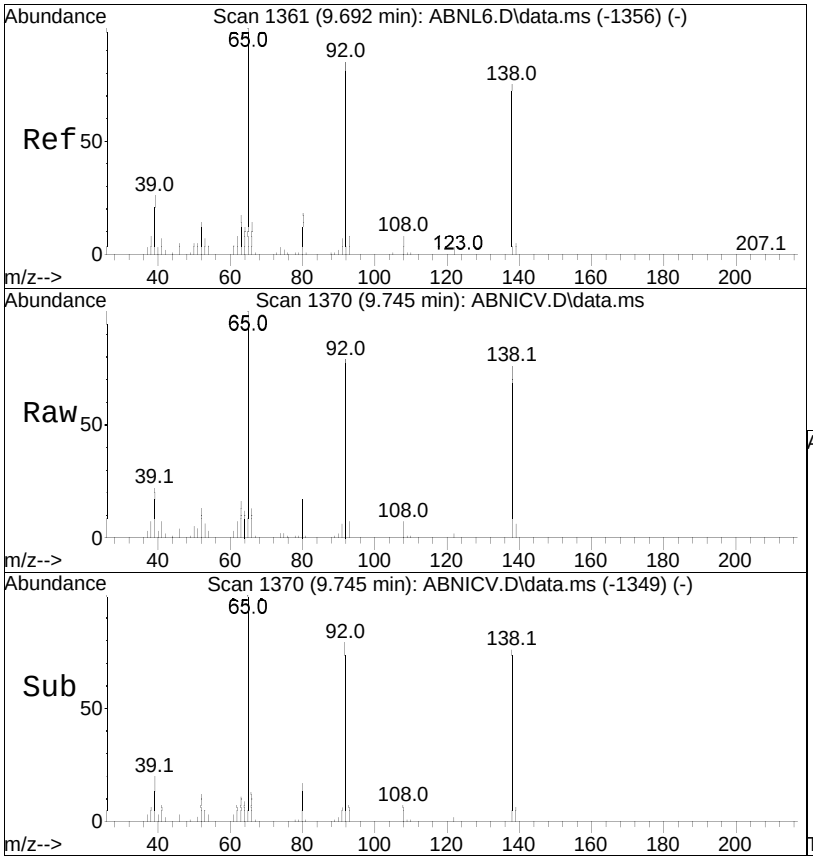


#54
1,2-Dinitrobenzene
Concen: 4.85 ug/ml
RT: 9.633 min Scan# 1351
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:168 Resp: 6365

Ion	Ratio	Lower	Upper
168	100		
75	114.0	30.9	46.3#

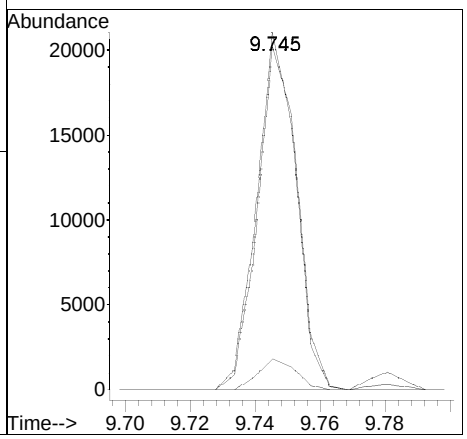


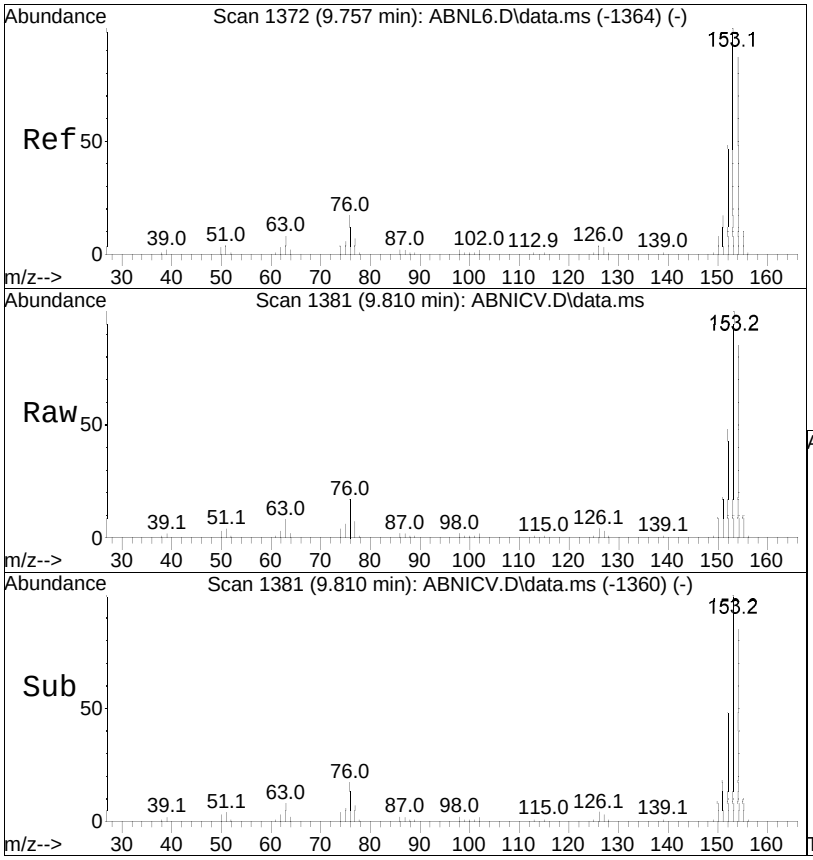


#64
3-Nitroaniline
Concen: 5.03 ug/ml
RT: 9.745 min Scan# 1370
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:138 Resp: 16925

Ion	Ratio	Lower	Upper
138	100		
92	102.2	93.4	140.2
108	8.7	9.5	14.3#

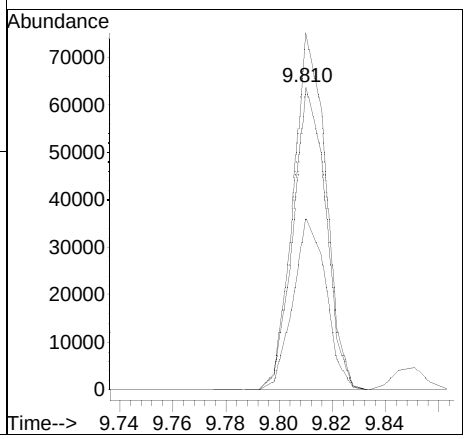


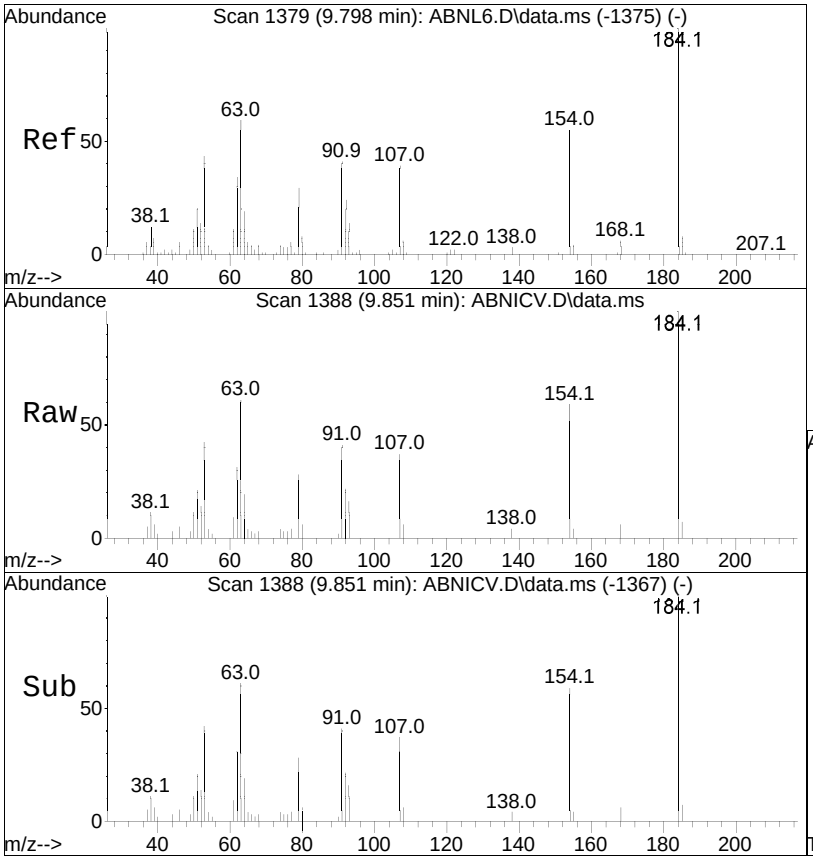


#65
Acenaphthene
Concen: 4.55 ug/ml
RT: 9.810 min Scan# 1381
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:154 Resp: 54473

Ion	Ratio	Lower	Upper
154	100		
153	117.6	85.3	127.9
152	57.2	41.4	62.0

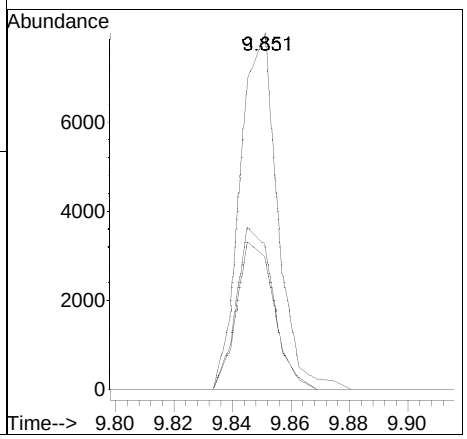


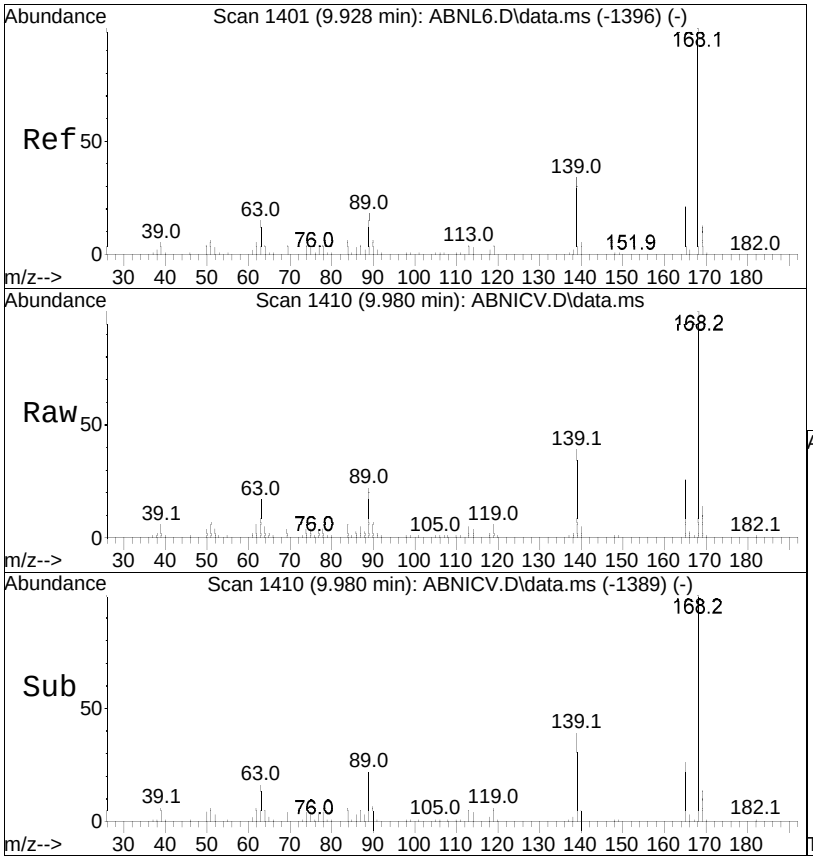


#66
2,4-Dinitrophenol
Concen: 3.93 ug/ml
RT: 9.851 min Scan# 1388
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:184 Resp: 7107

Ion	Ratio	Lower	Upper
184	100		
107	41.4	37.7	56.5
91	44.9	46.3	69.5#

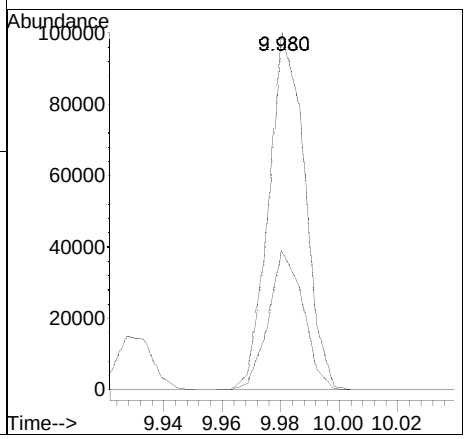


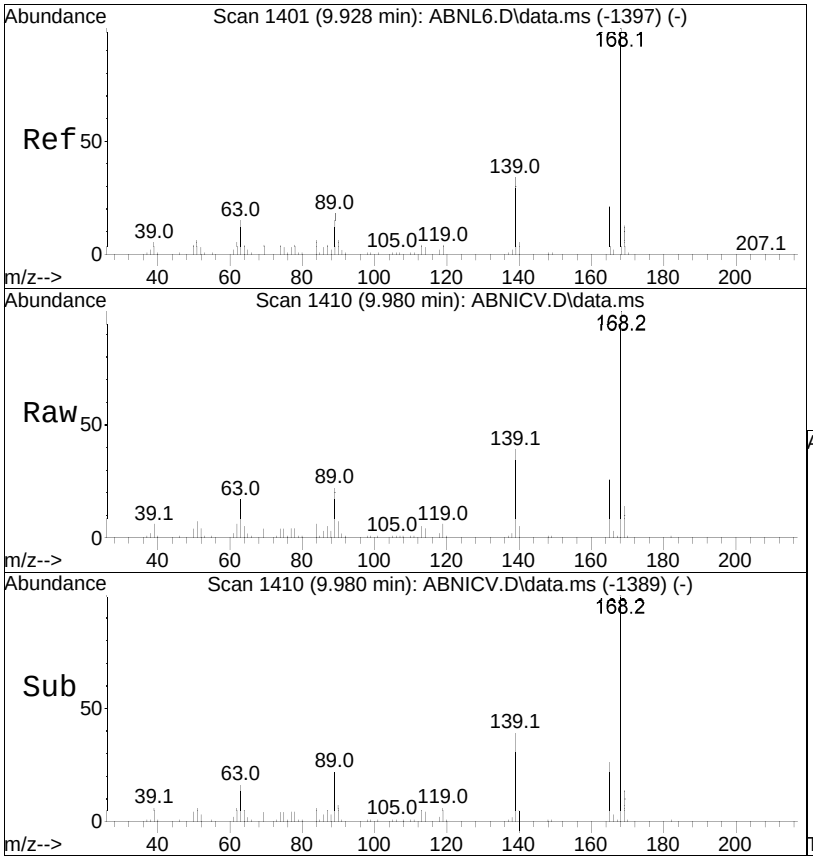


#67
Dibenzofuran
Concen: 4.29 ug/ml
RT: 9.980 min Scan# 1410
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:168 Resp: 84859

Ion	Ratio	Lower	Upper
168	100		
139	37.9	31.4	47.2

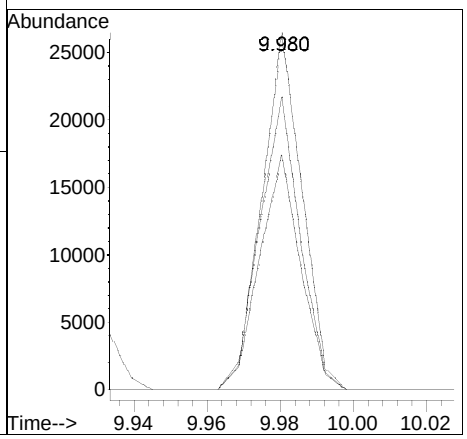


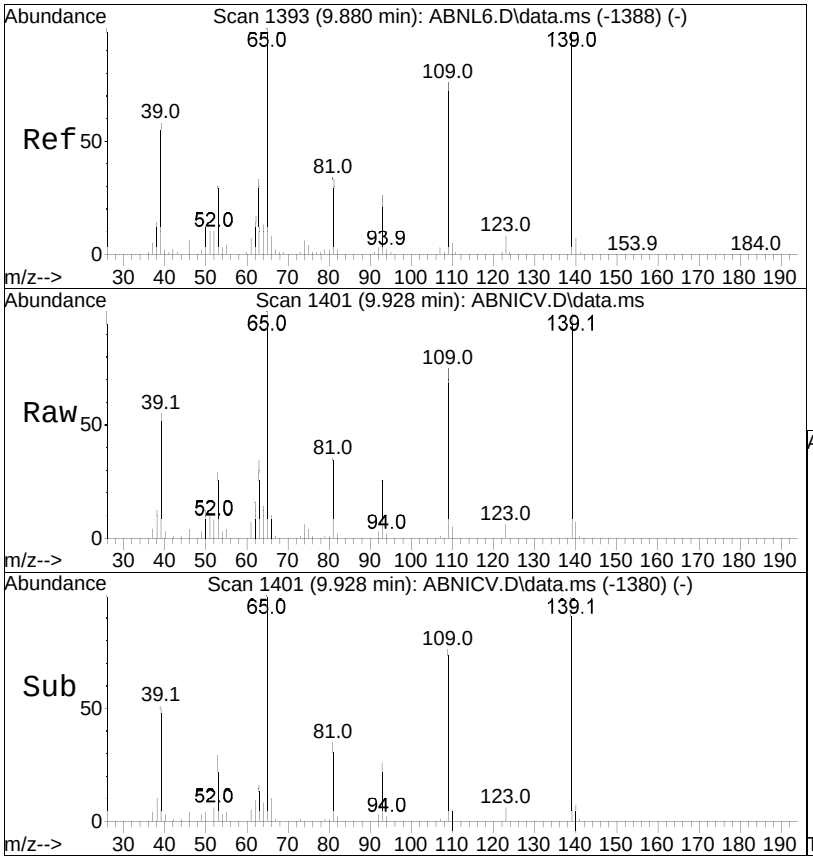


#68
2,4-Dinitrotoluene
Concen: 4.67 ug/ml
RT: 9.980 min Scan# 1410
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:165 Resp: 20040

Ion	Ratio	Lower	Upper
165	100		
89	82.6	72.0	108.0
63	67.3	52.7	79.1

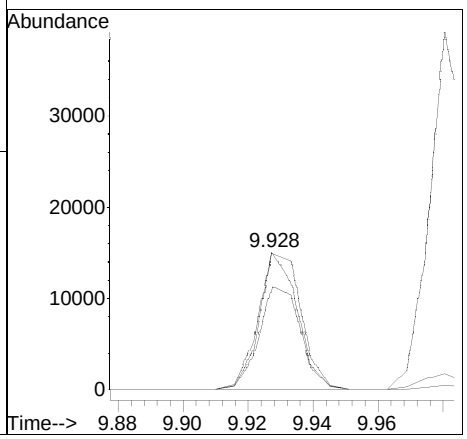


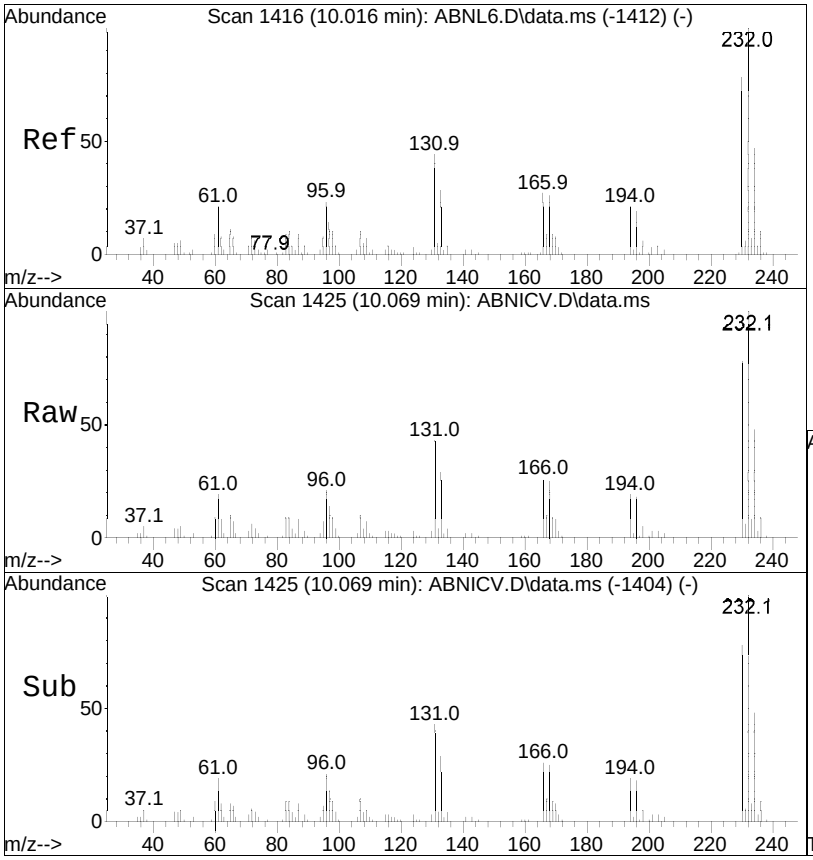


#69
4-Nitrophenol
Concen: 4.72 ug/ml
RT: 9.928 min Scan# 1401
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion: 65 Resp: 12555

Ion	Ratio	Lower	Upper
65	100		
109	79.5	47.4	71.2#
139	106.0	76.6	115.0

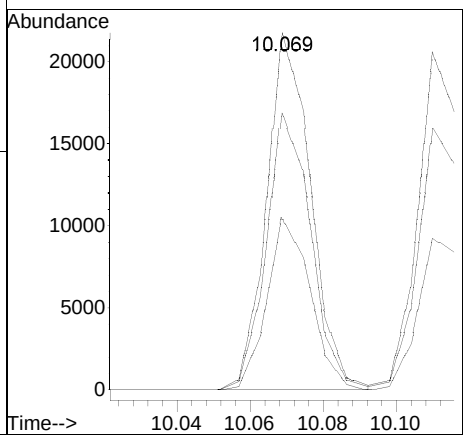


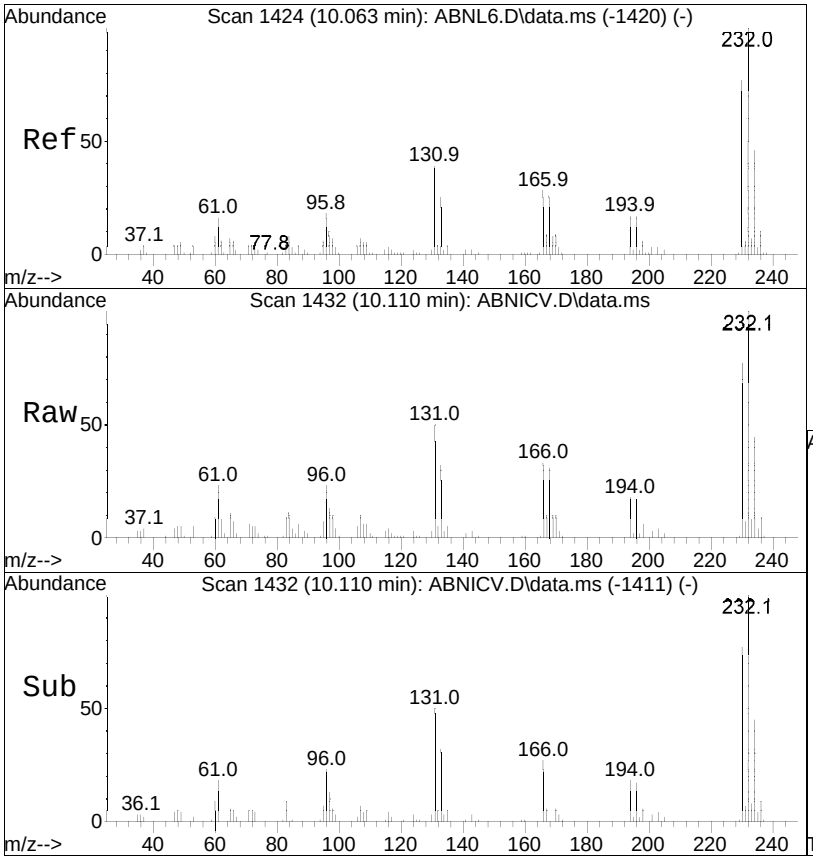


#70
2,3,5,6-Tetrachlorophenol
Concen: 5.10 ug/ml
RT: 10.069 min Scan# 1425
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:232 Resp: 18284

Ion	Ratio	Lower	Upper
232	100		
230	78.2	64.2	96.4
234	47.4	38.1	57.1

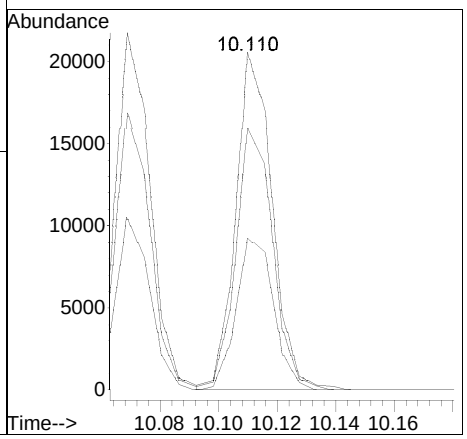


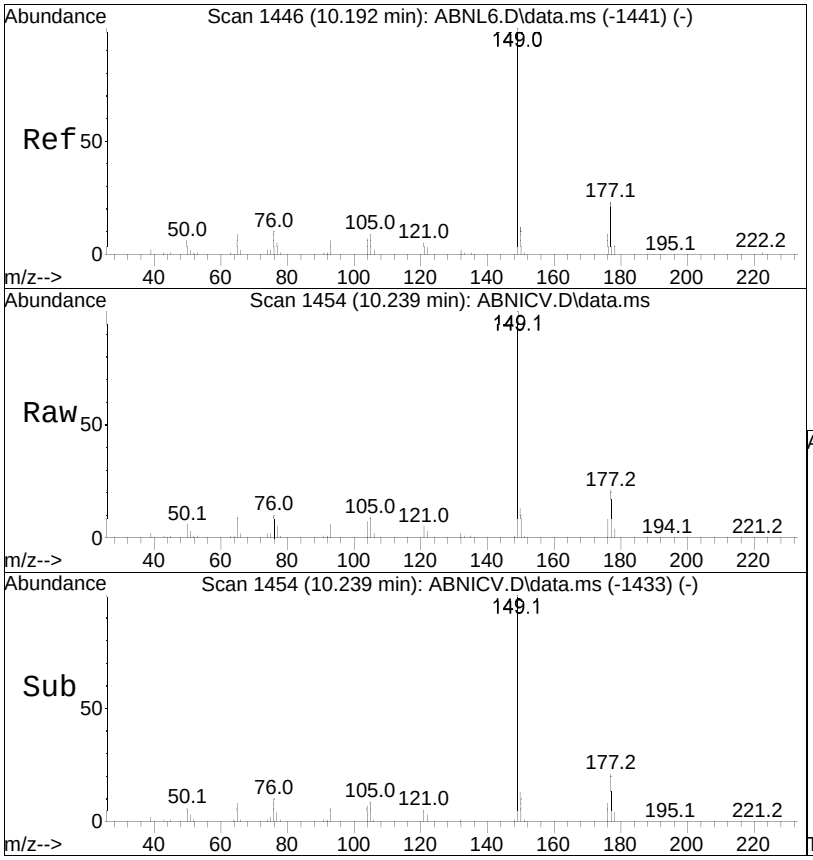


#71
2,3,4,6-Tetrachlorophenol
Concen: 5.20 ug/ml
RT: 10.110 min Scan# 1432
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:232 Resp: 17791

Ion	Ratio	Lower	Upper
232	100		
230	78.9	61.8	92.8
234	46.5	36.2	54.2

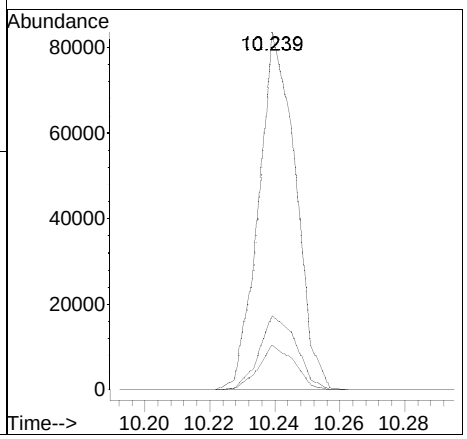


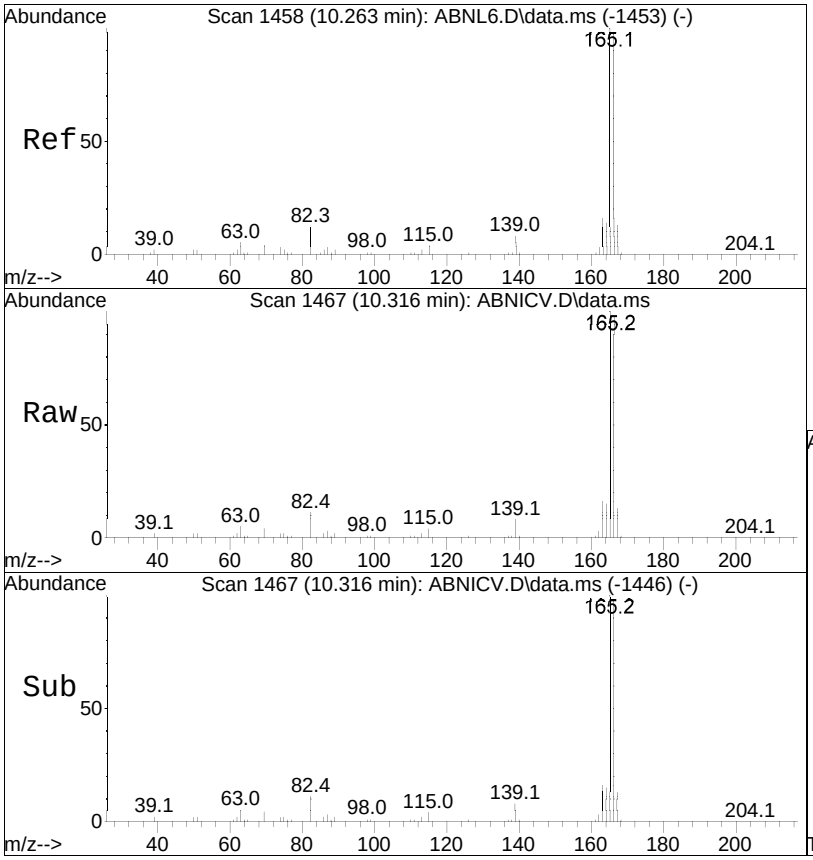


#72
Diethyl phthalate
Concen: 4.66 ug/ml
RT: 10.239 min Scan# 1454
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:149 Resp: 65096

Ion	Ratio	Lower	Upper
149	100		
177	21.1	16.1	24.1
150	12.4	9.4	14.2

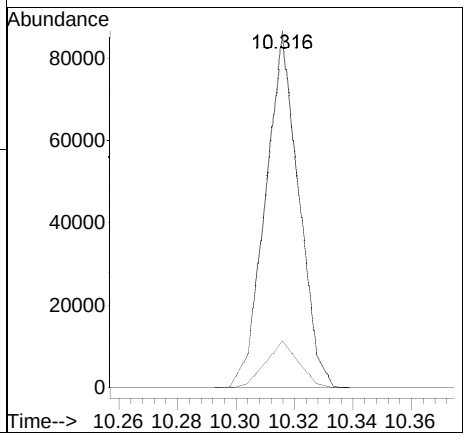


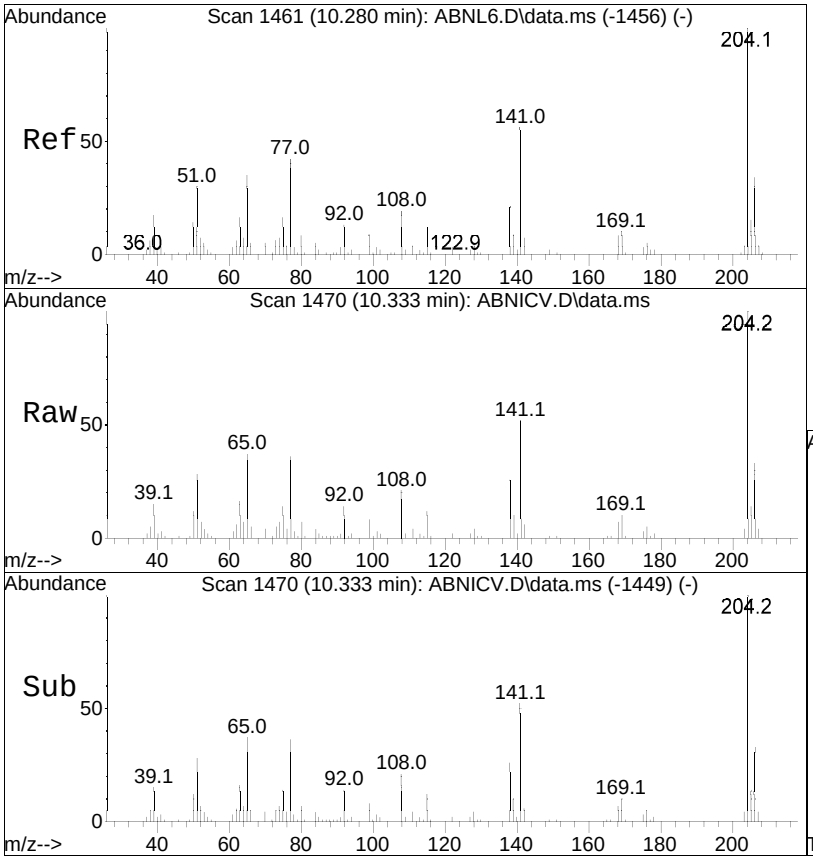


#73
Fluorene
Concen: 4.58 ug/ml
RT: 10.316 min Scan# 1467
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:166 Resp: 67628

Ion	Ratio	Lower	Upper
166	100		
165	102.0	76.2	114.2
167	13.5	10.6	15.8

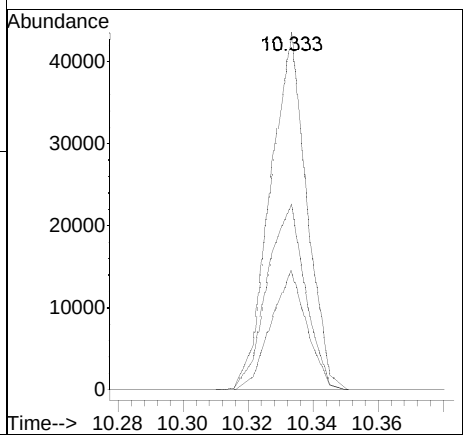


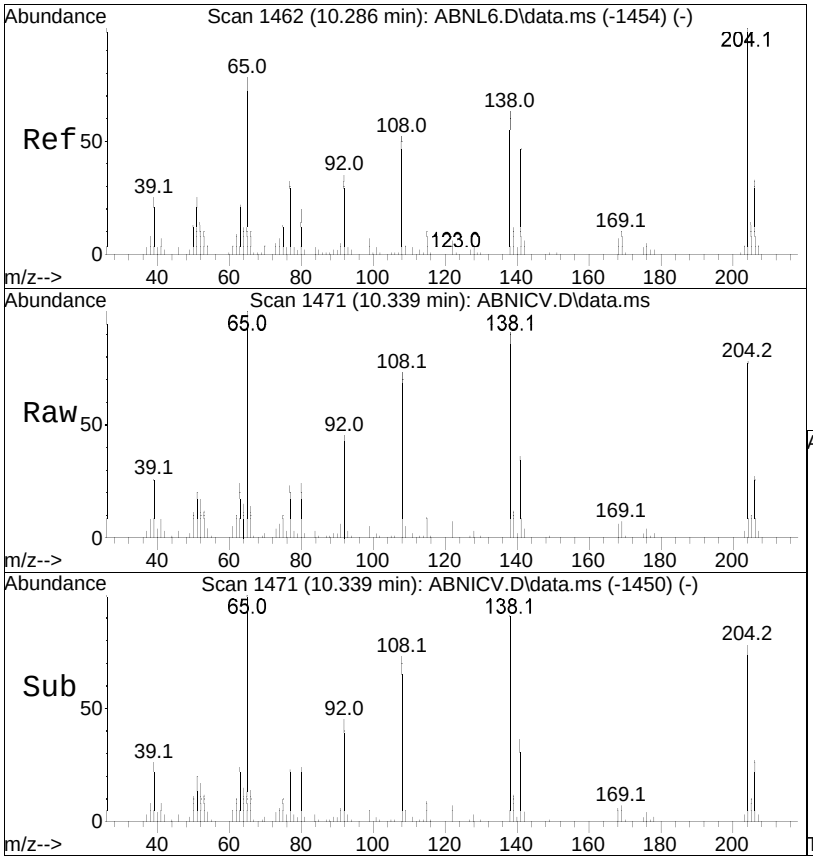


#74
4-Chlorophenyl phenyl ether
Concen: 4.50 ug/ml
RT: 10.333 min Scan# 1470
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:204 Resp: 33757

Ion	Ratio	Lower	Upper
204	100		
206	33.0	25.8	38.6
141	54.6	53.6	80.4

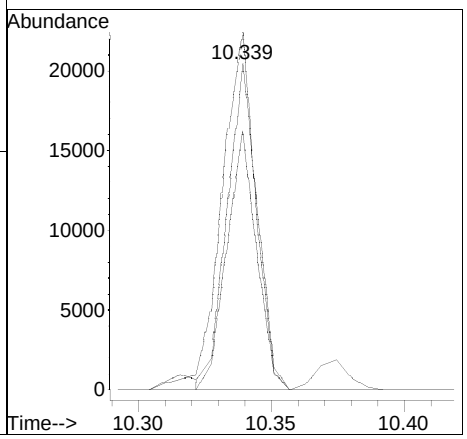


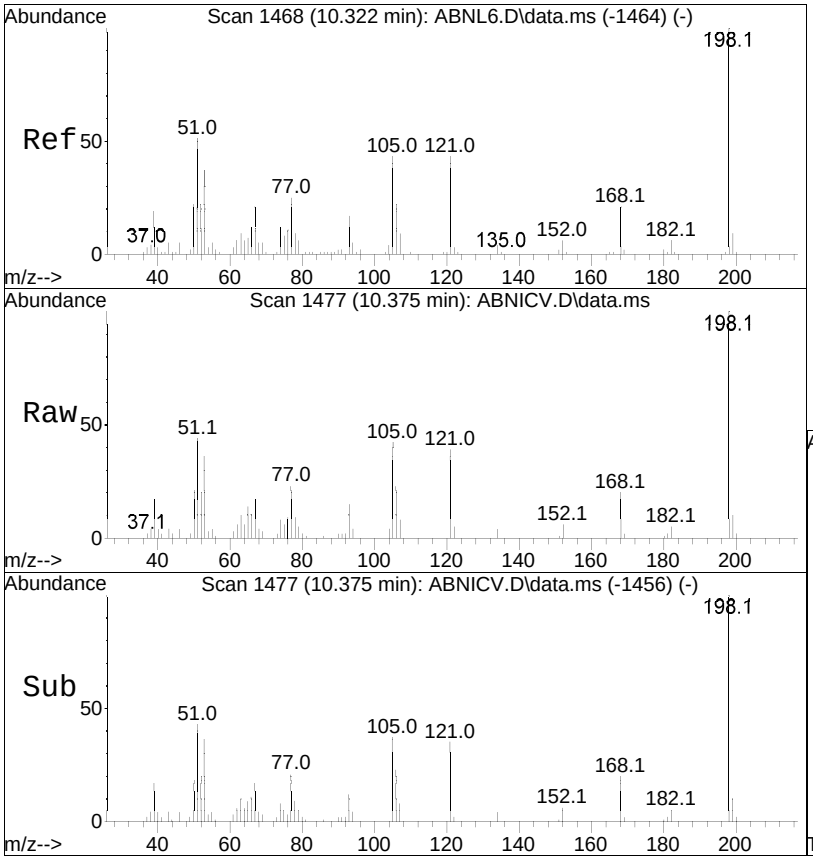


#75
4-Nitroaniline
Concen: 4.77 ug/ml M6
RT: 10.339 min Scan# 1471
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:138 Resp: 16075

Ion	Ratio	Lower	Upper
138	100		
108	78.2	52.1	78.1#
65	122.8	115.0	172.6

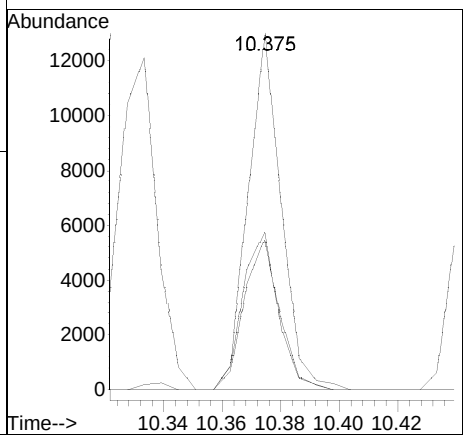


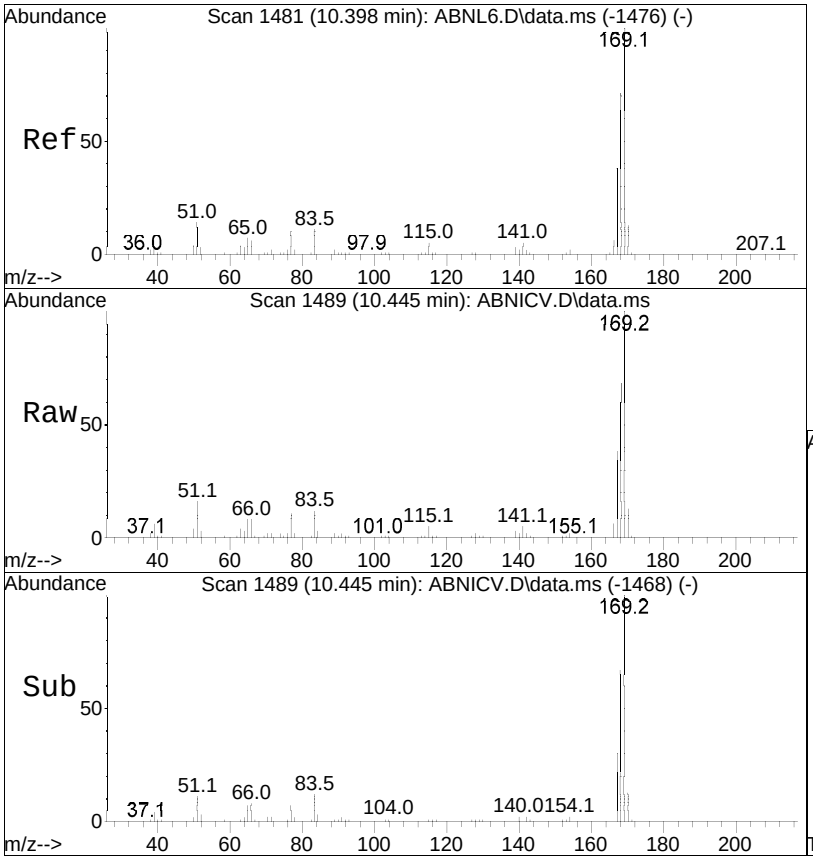


#76
4,6-Dinitro-o-cresol
Concen: 3.99 ug/ml
RT: 10.375 min Scan# 1477
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:198 Resp: 10228

Ion	Ratio	Lower	Upper
198	100		
51	47.6	76.0	114.0#
105	45.3	45.6	68.4#

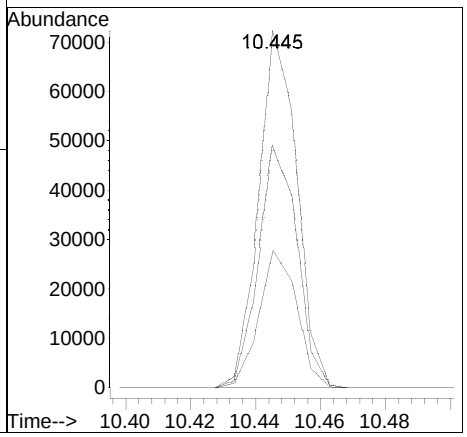


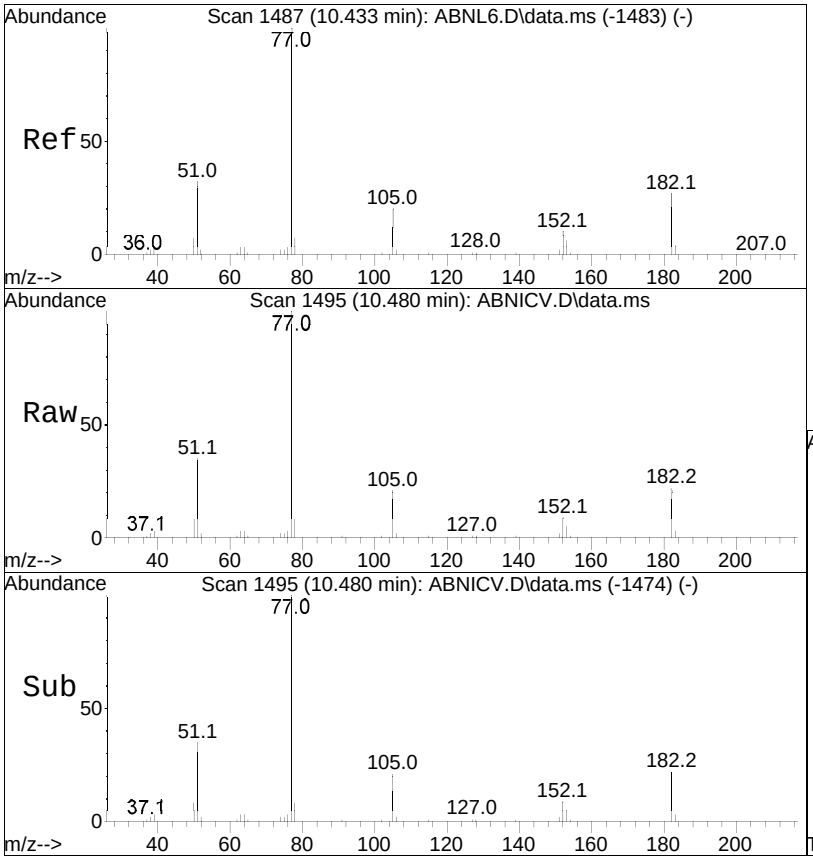


#77
NDPA/DPA
Concen: 4.79 ug/ml
RT: 10.445 min Scan# 1489
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:169 Resp: 58770

Ion	Ratio	Lower	Upper
169	100		
168	69.1	54.0	81.0
167	38.5	28.6	42.8

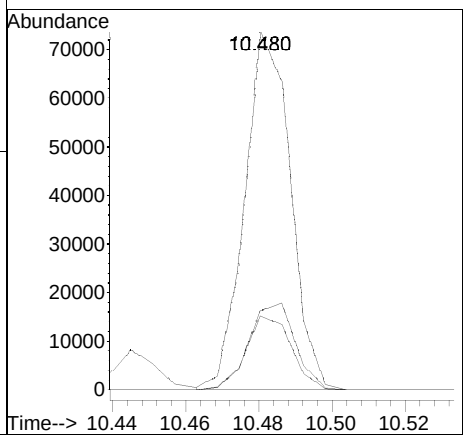


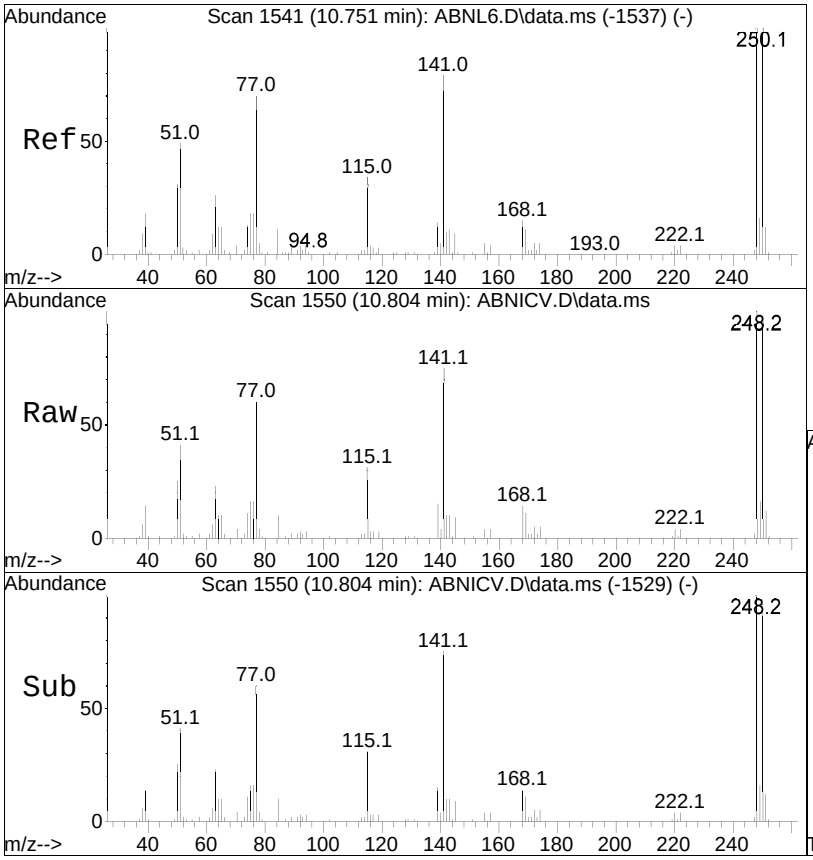


#78
Azobenzene
Concen: 4.92 ug/ml
RT: 10.480 min Scan# 1495
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion: 77 Resp: 63508

Ion	Ratio	Lower	Upper
77	100		
182	24.7	17.4	26.2
105	20.7	15.4	23.2

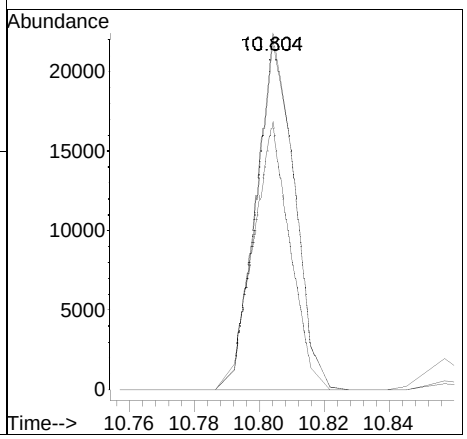


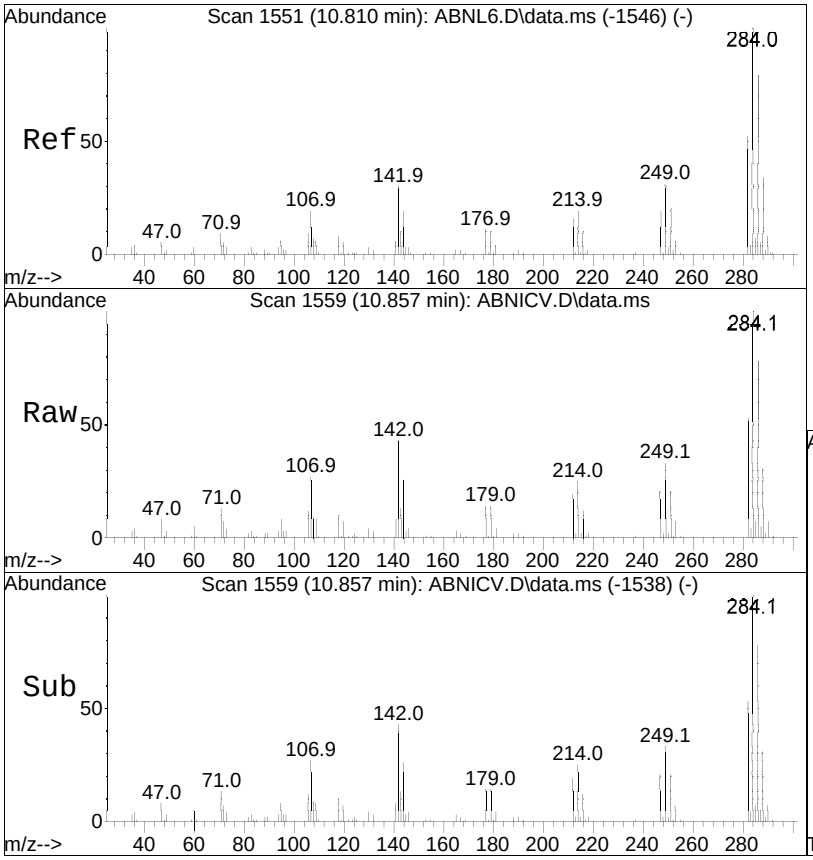


#80
4-Bromophenyl phenyl ether
Concen: 4.48 ug/ml
RT: 10.804 min Scan# 1550
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:248 Resp: 18126

Ion	Ratio	Lower	Upper
248	100		
141	72.7	76.6	114.8#
250	98.1	77.3	115.9

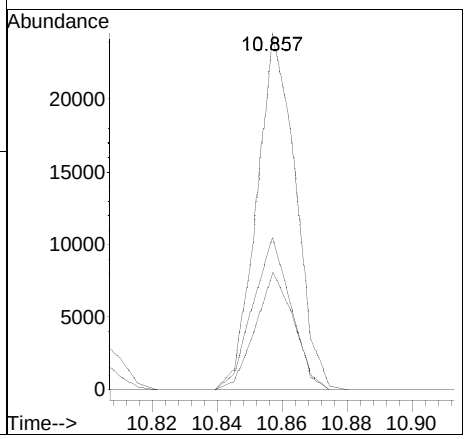


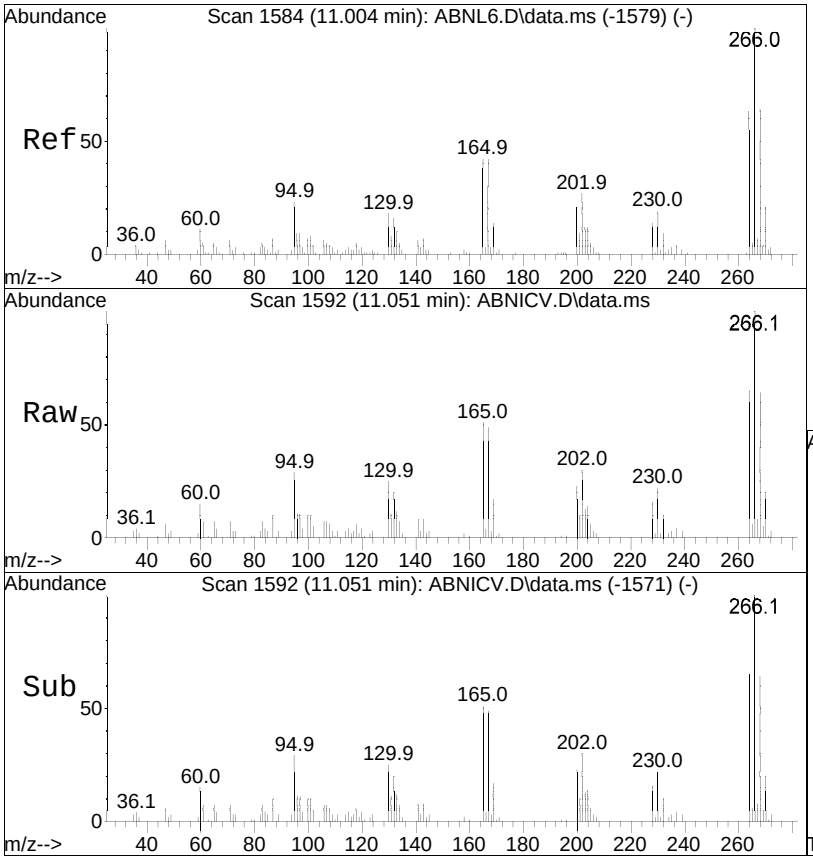


#81
Hexachlorobenzene
Concen: 4.53 ug/ml
RT: 10.857 min Scan# 1559
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:284 Resp: 20239

Ion	Ratio	Lower	Upper
284	100		
142	42.1	41.9	62.9
249	32.9	24.1	36.1

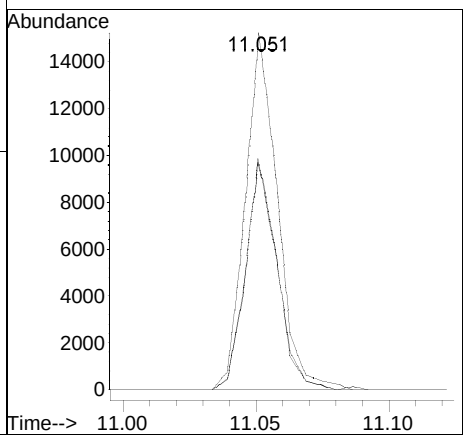


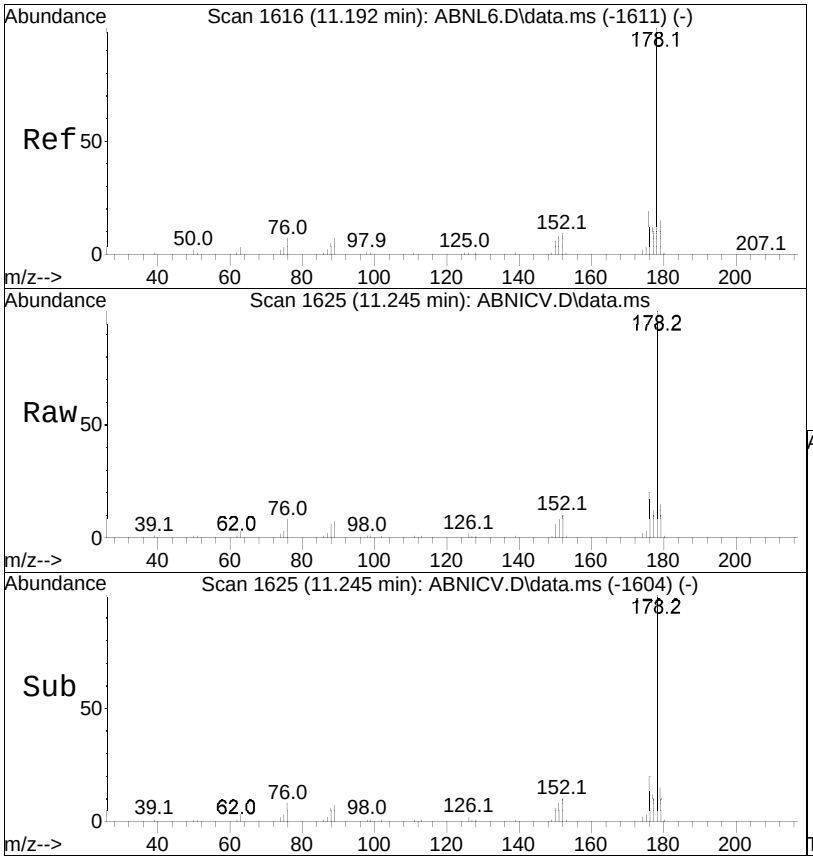


#82
Pentachlorophenol
Concen: 4.24 ug/ml
RT: 11.051 min Scan# 1592
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:266 Resp: 12741

Ion	Ratio	Lower	Upper
266	100		
264	62.9	49.7	74.5
268	63.5	50.5	75.7

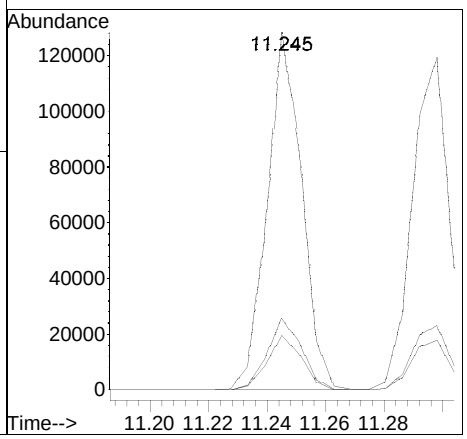


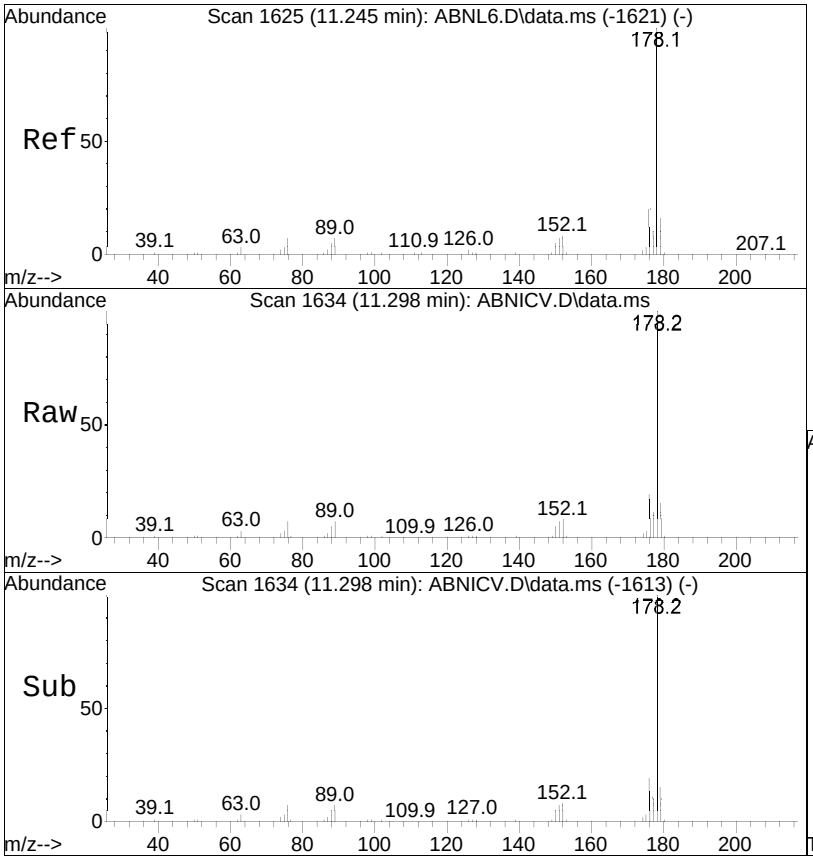


#89
Phenanthrene
Concen: 4.48 ug/ml
RT: 11.245 min Scan# 1625
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:178 Resp: 105121

Ion	Ratio	Lower	Upper
178	100		
179	15.1	12.2	18.2
176	19.9	15.4	23.2

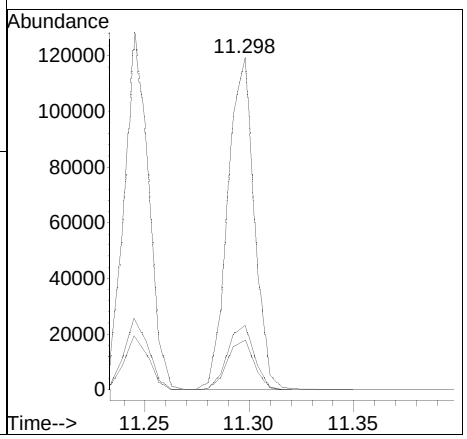


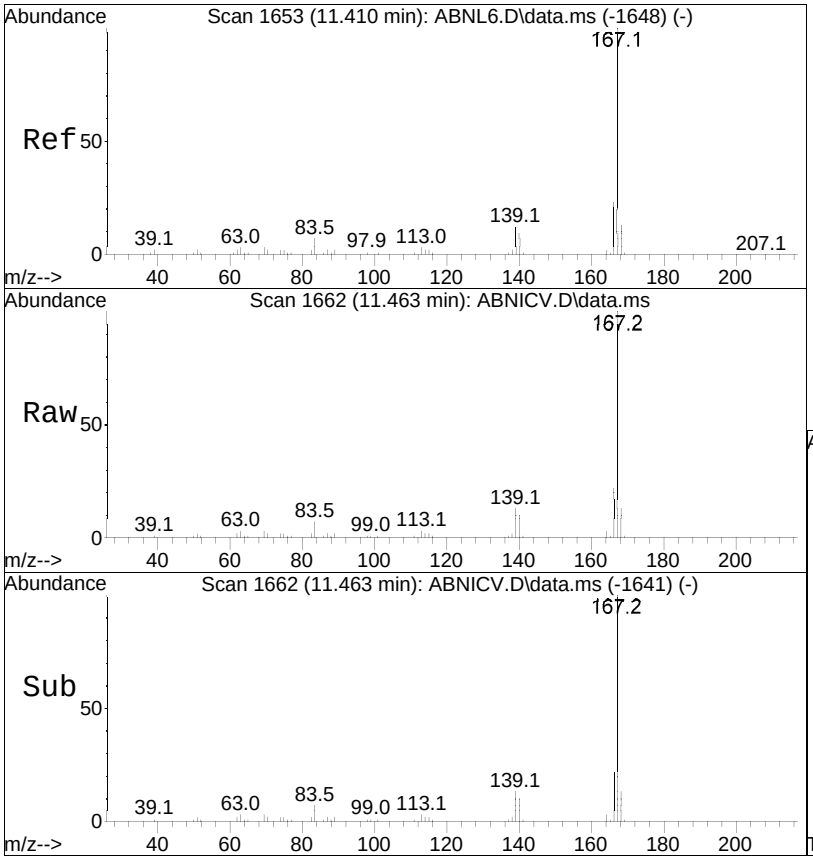


#90
Anthracene
Concen: 4.76 ug/ml
RT: 11.298 min Scan# 1634
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:178 Resp: 105625

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.0	18.0
176	19.7	14.6	22.0

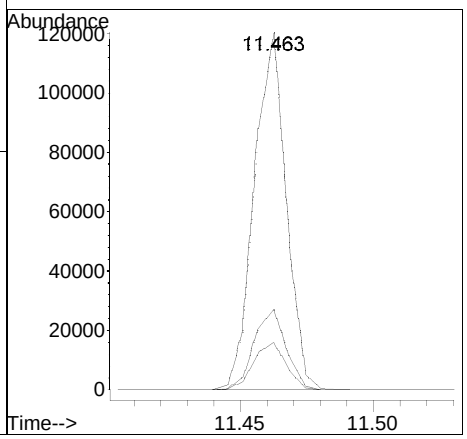


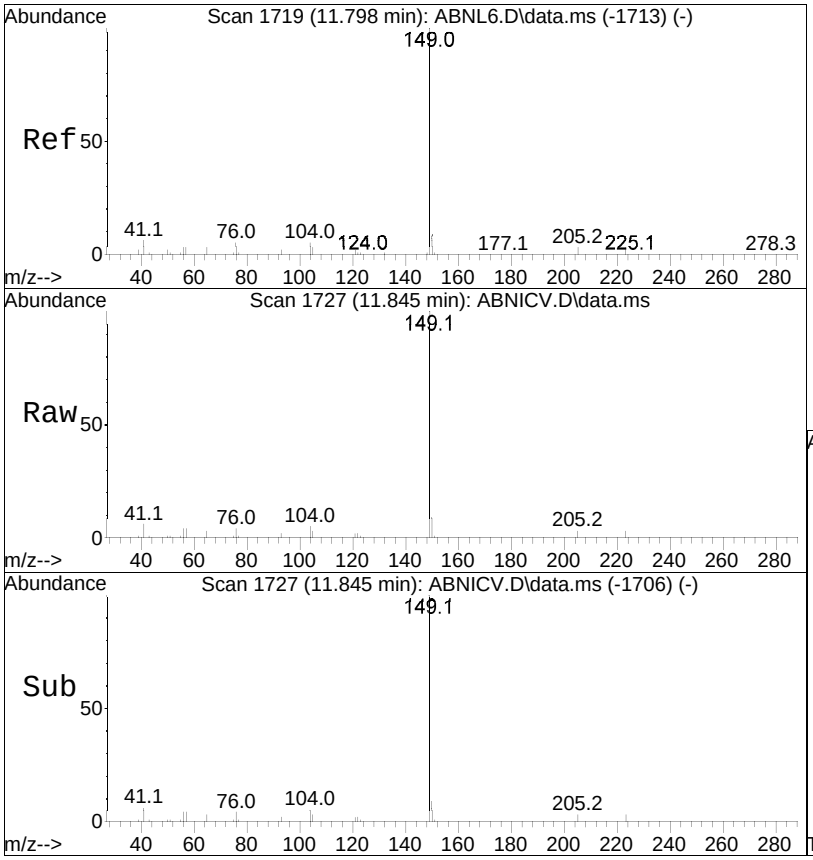


#91
Carbazole
Concen: 4.90 ug/ml
RT: 11.463 min Scan# 1662
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:167 Resp: 99085

Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.6	15.8
166	22.8	17.4	26.0

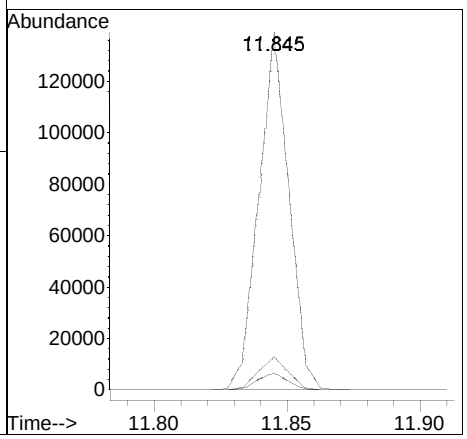


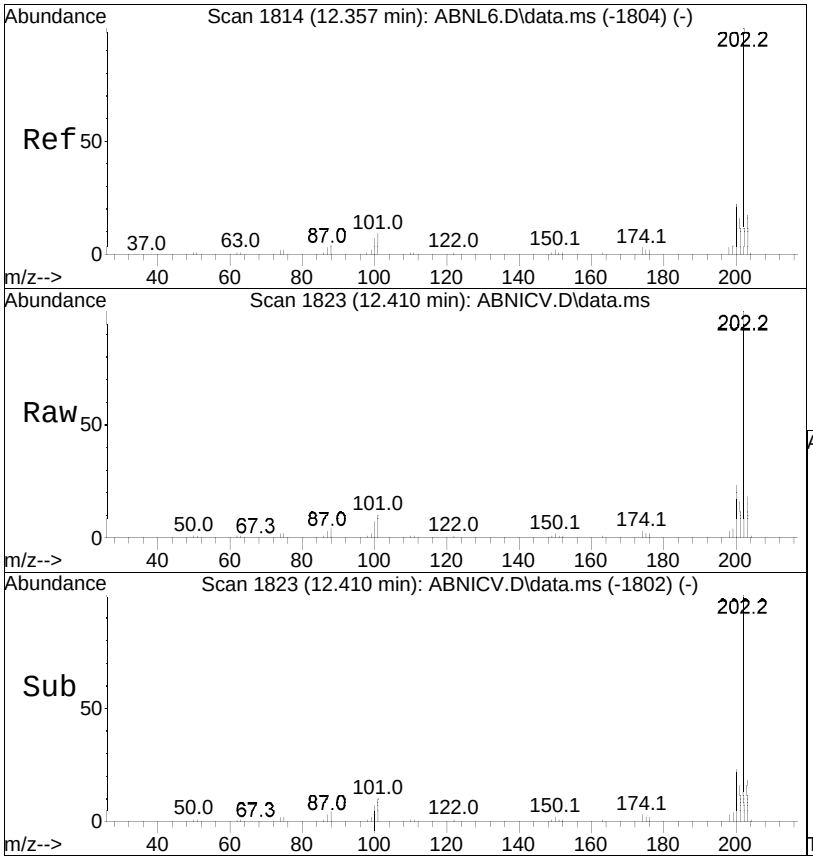


#92
Di-n-butylphthalate
Concen: 4.83 ug/ml
RT: 11.845 min Scan# 1727
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:149 Resp: 107649

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.0	10.6
104	4.8	4.5	6.7

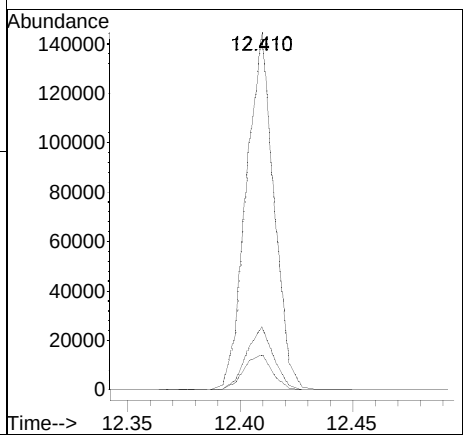


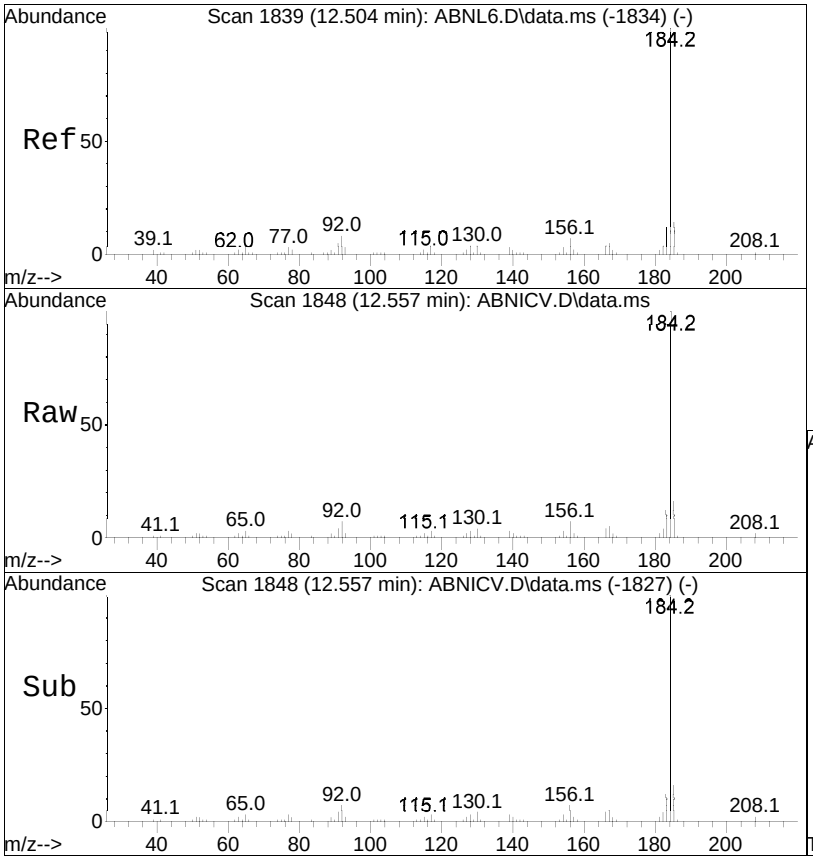


#93
Fluoranthene
Concen: 4.77 ug/ml
RT: 12.410 min Scan# 1823
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:202 Resp: 122428

Ion	Ratio	Lower	Upper
202	100		
101	10.2	13.5	20.3#
203	17.3	13.6	20.4

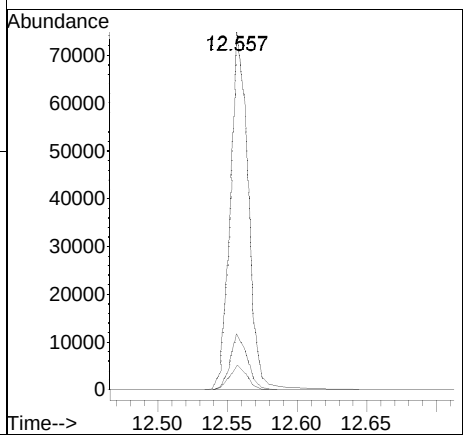


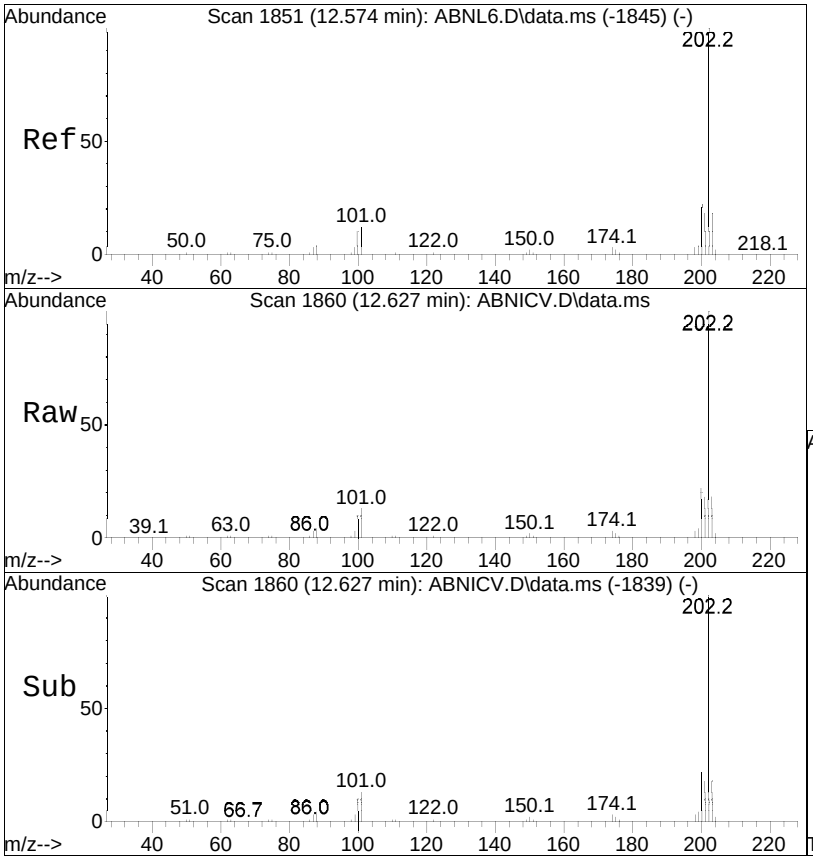


#94
Benzidine
Concen: 4.47 ug/ml
RT: 12.557 min Scan# 1848
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:184 Resp: 66217

Ion	Ratio	Lower	Upper
184	100		
92	6.8	9.1	13.7#
185	15.1	11.1	16.7

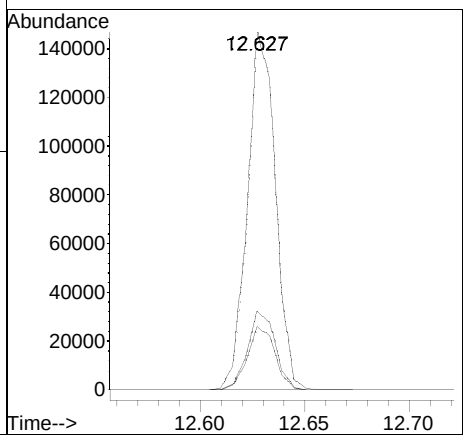


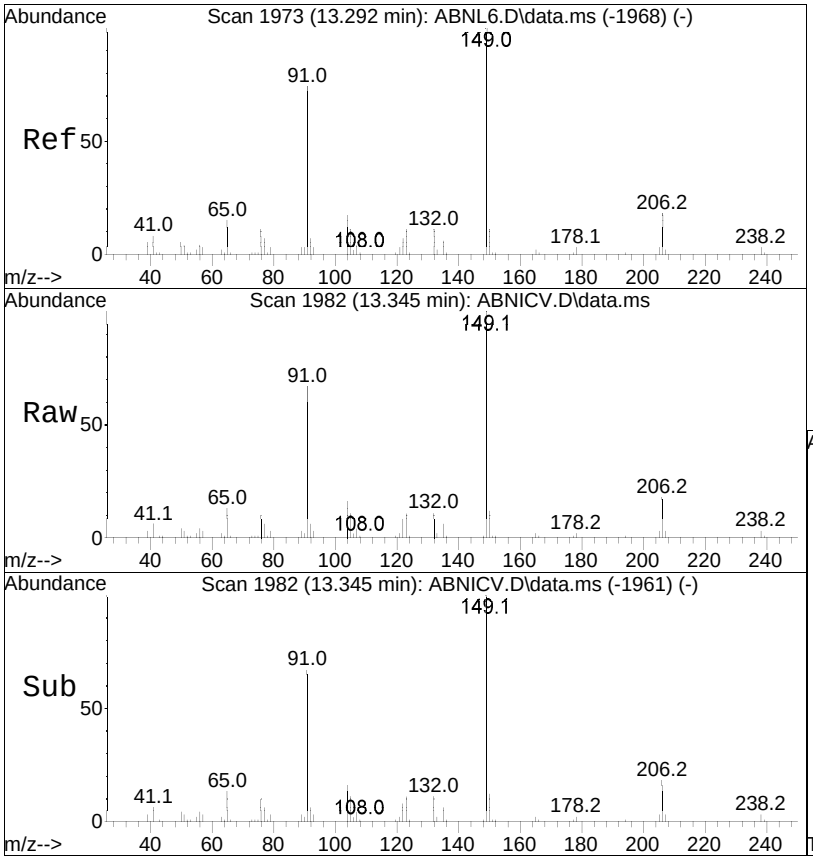


#95
Pyrene
Concen: 4.84 ug/ml
RT: 12.627 min Scan# 1860
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:202 Resp: 135123

Ion	Ratio	Lower	Upper
202	100		
200	21.8	16.7	25.1
203	17.6	14.2	21.4

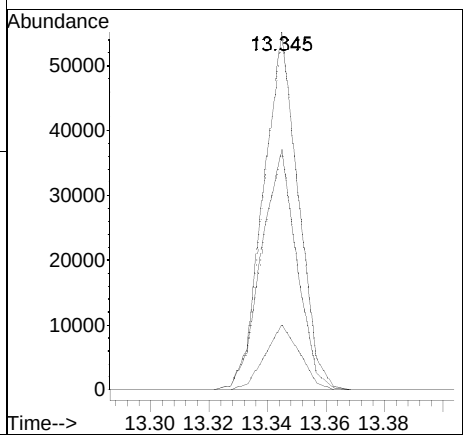


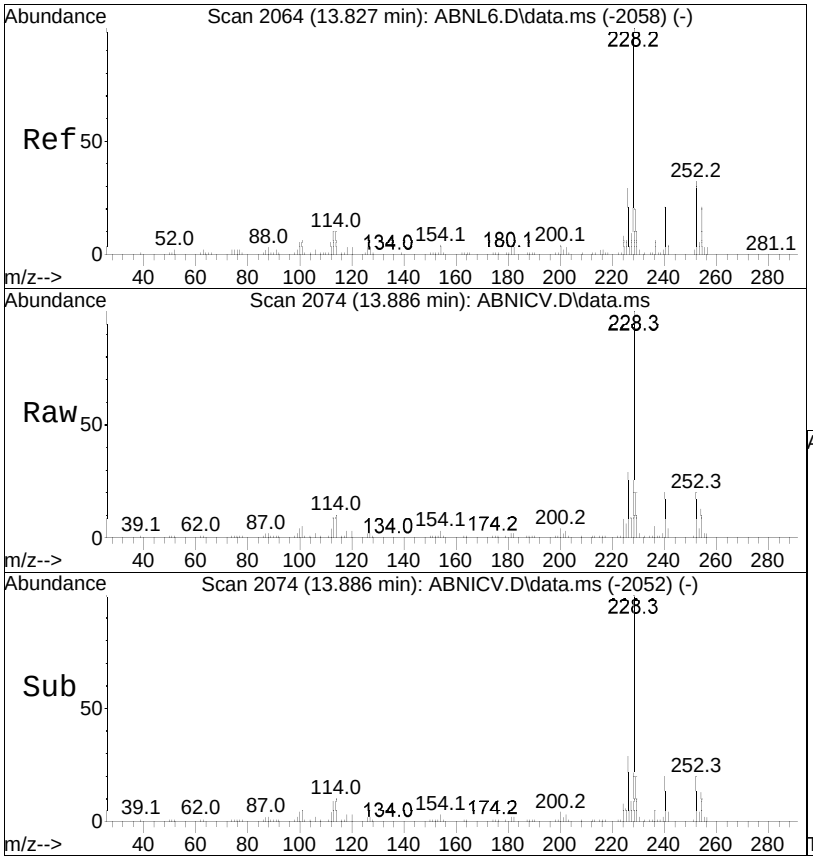


#97
Butyl benzyl phthalate
Concen: 4.01 ug/ml
RT: 13.345 min Scan# 1982
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:149 Resp: 45300

Ion	Ratio	Lower	Upper
149	100		
91	68.4	63.3	94.9
206	18.0	13.9	20.9

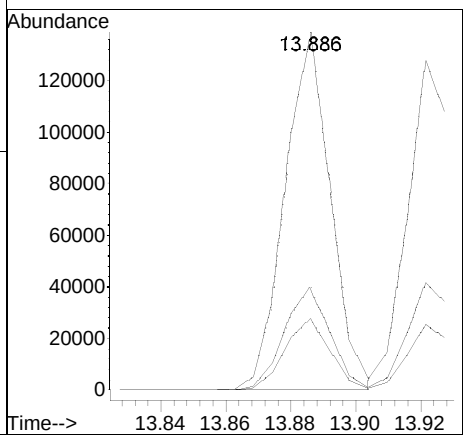


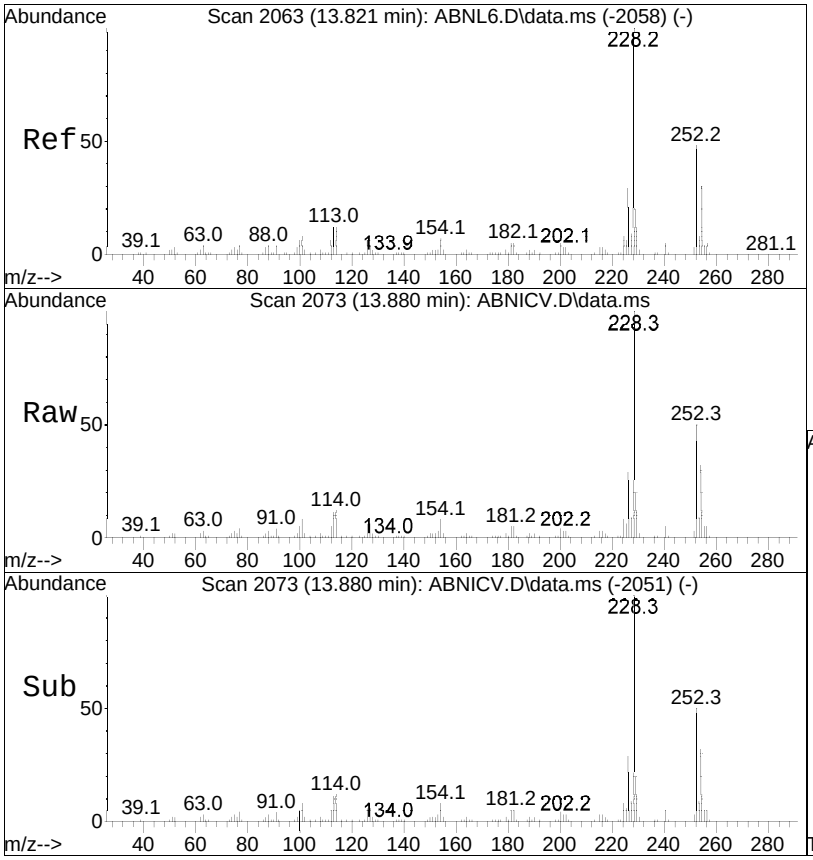


#105
Benzo(a)anthracene
Concen: 4.69 ug/ml
RT: 13.886 min Scan# 2074
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:228 Resp: 134874

Ion	Ratio	Lower	Upper
228	100		
226	29.0	22.2	33.4
229	19.9	15.6	23.4

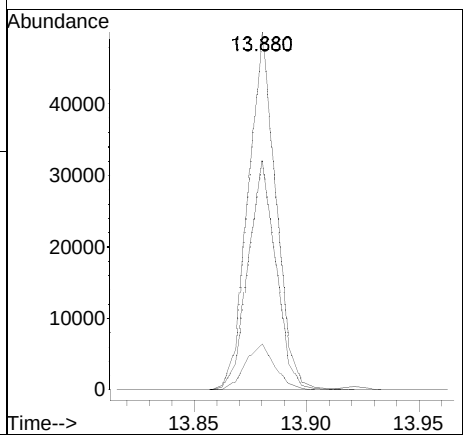


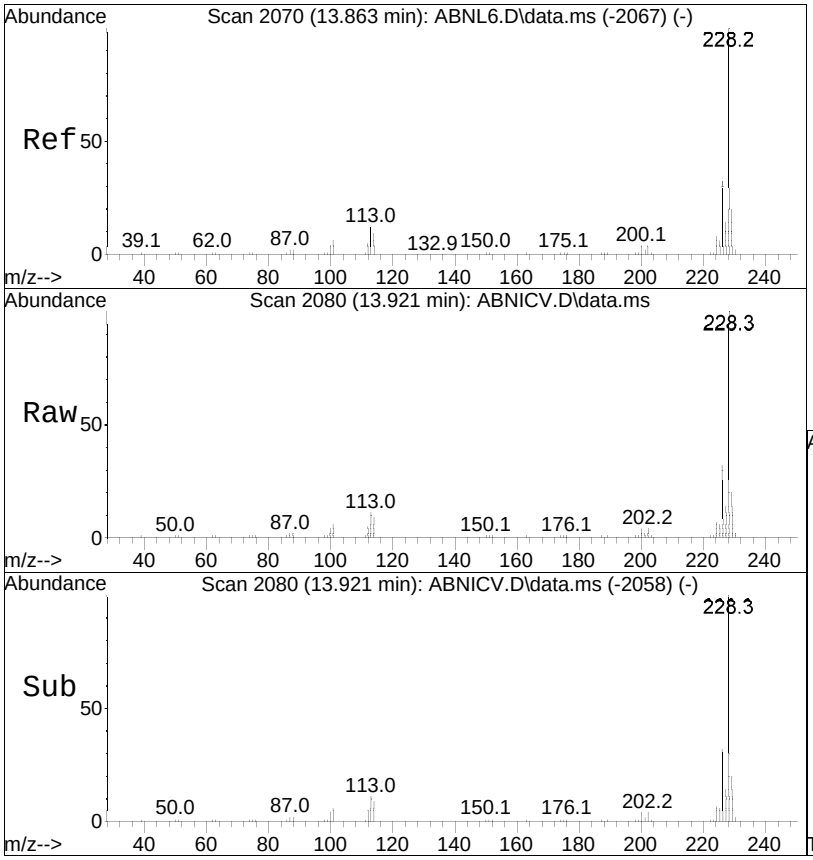


#106
3,3'-Dichlorobenzidine
Concen: 4.17 ug/ml
RT: 13.880 min Scan# 2073
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:252 Resp: 42776

Ion	Ratio	Lower	Upper
252	100		
126	13.9	14.5	21.7#
254	64.1	51.2	76.8

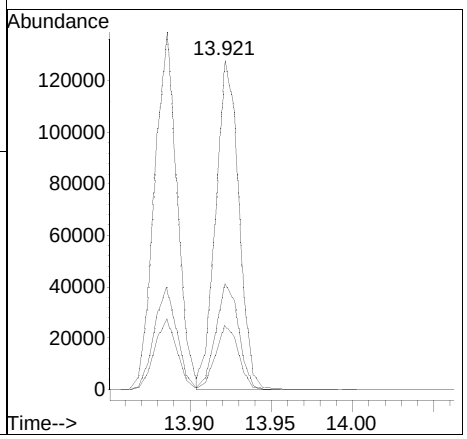


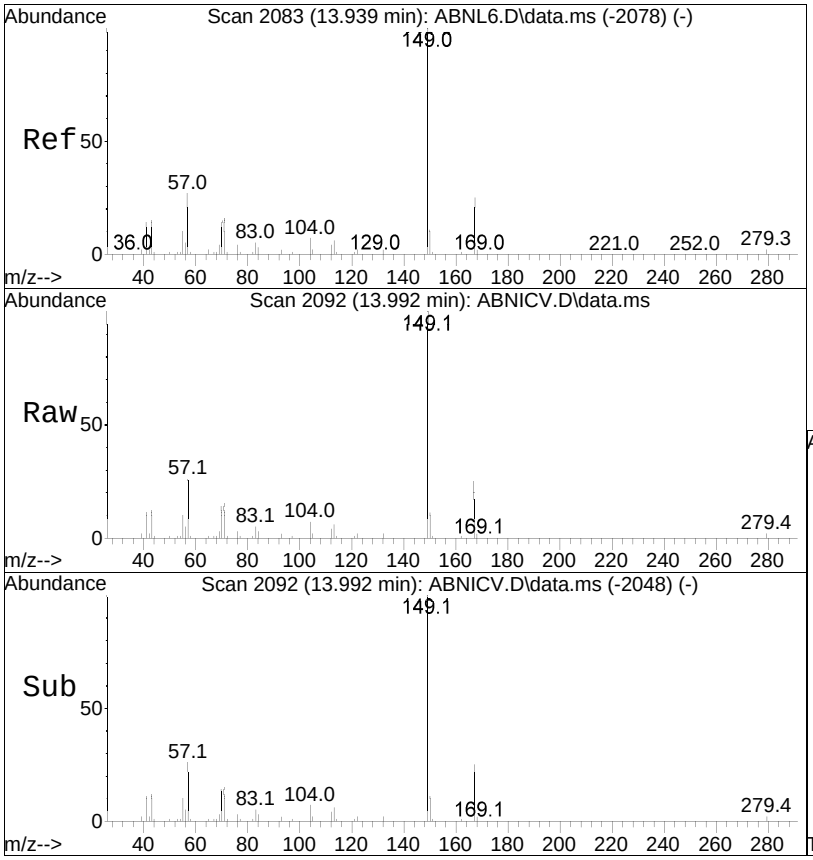


#107
Chrysene
Concen: 4.57 ug/ml
RT: 13.921 min Scan# 2080
Delta R.T. 0.005 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:228 Resp: 126820

Ion	Ratio	Lower	Upper
228	100		
226	32.1	24.0	36.0
229	19.4	15.8	23.8

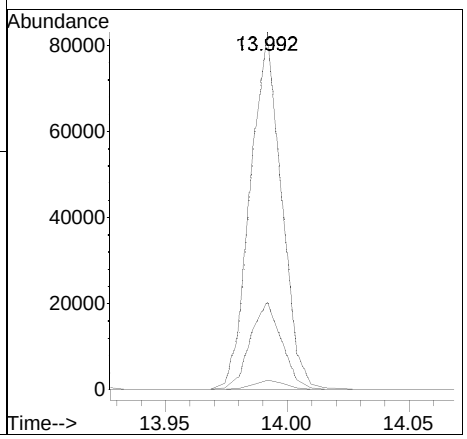


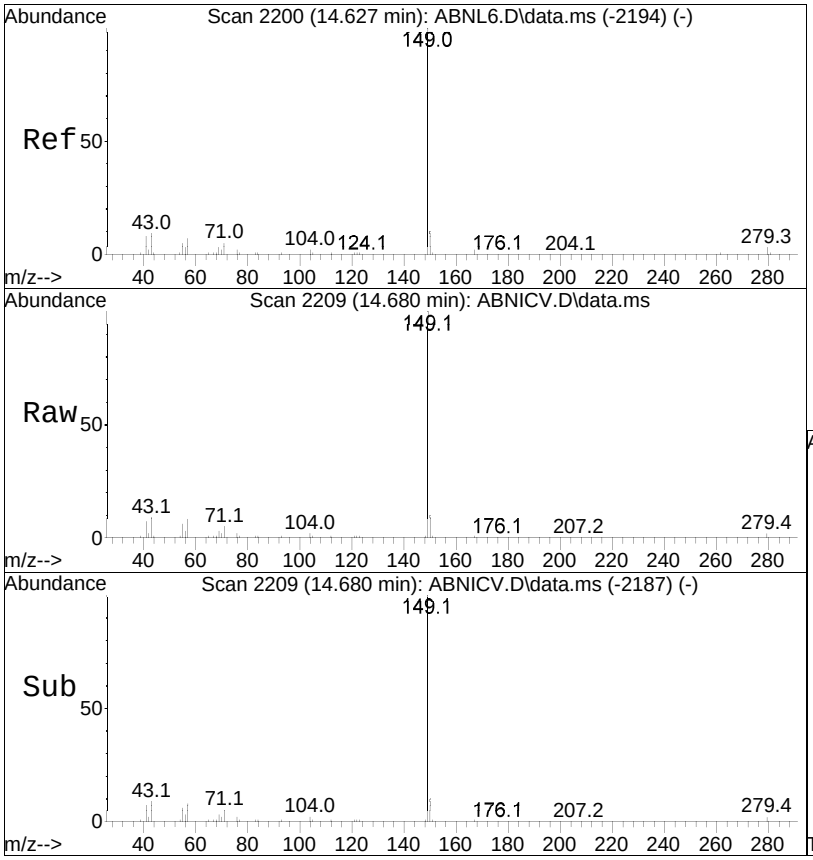


#108
Bis(2-ethylhexyl)phthalate
Concen: 4.73 ug/ml
RT: 13.992 min Scan# 2092
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:149 Resp: 73243

Ion	Ratio	Lower	Upper
149	100		
167	24.7	22.1	33.1
279	2.4	3.0	4.4#

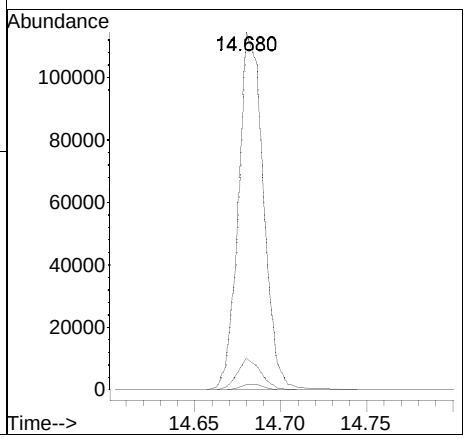


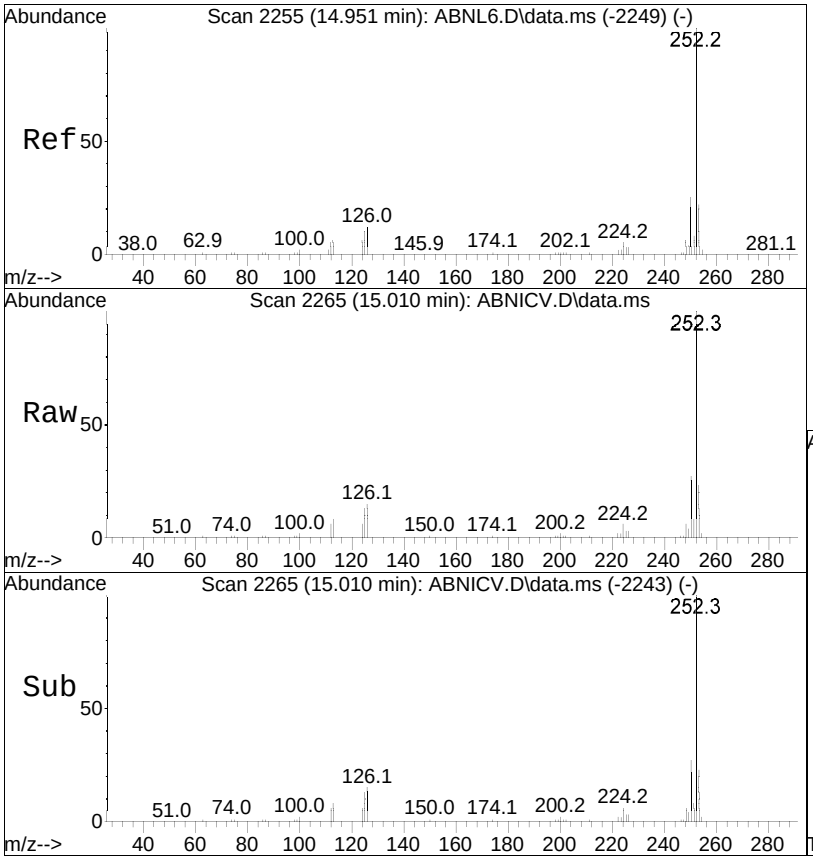


#109
Di-n-octylphthalate
Concen: 4.23 ug/ml
RT: 14.680 min Scan# 2209
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:149 Resp: 113743

Ion	Ratio	Lower	Upper
149	100		
43	8.3	18.8	28.2#
167	1.3	1.3	1.9

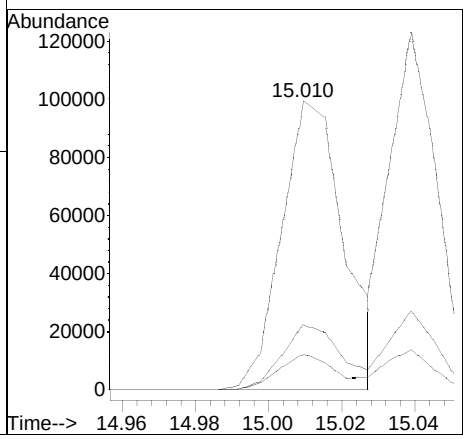


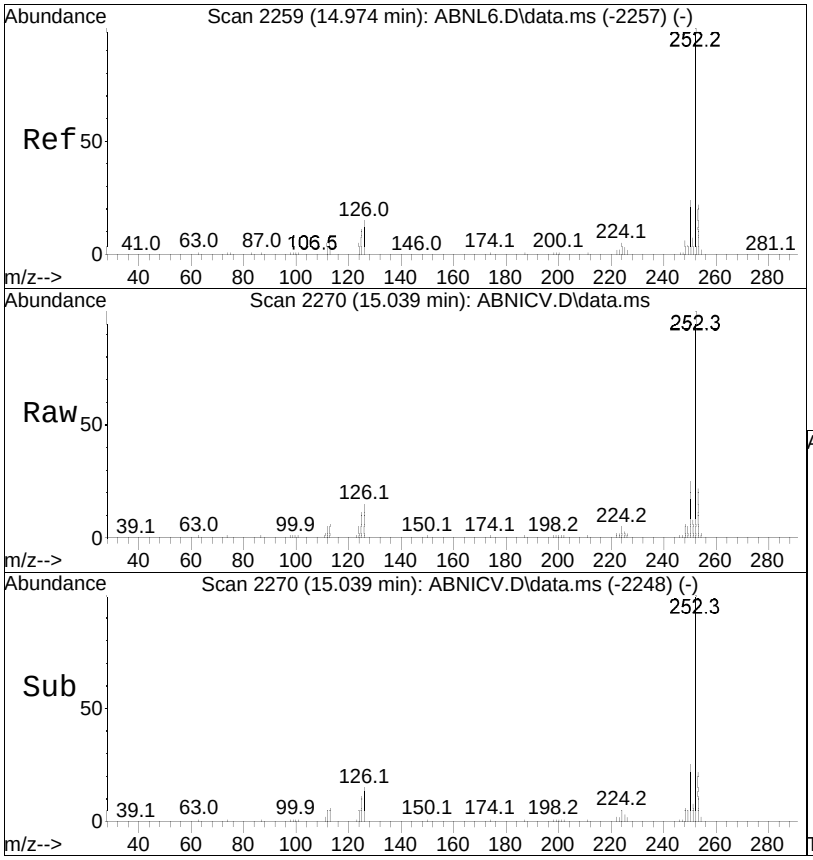


#110
Benzo(b)fluoranthene
Concen: 4.81 ug/ml
RT: 15.010 min Scan# 2265
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:252 Resp: 119034

Ion	Ratio	Lower	Upper
252	100		
125	10.7	13.3	19.9#
253	21.9	17.1	25.7

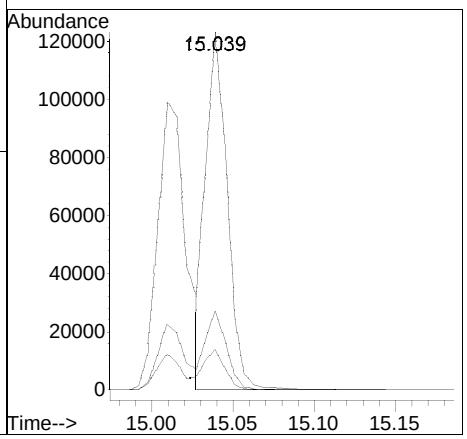


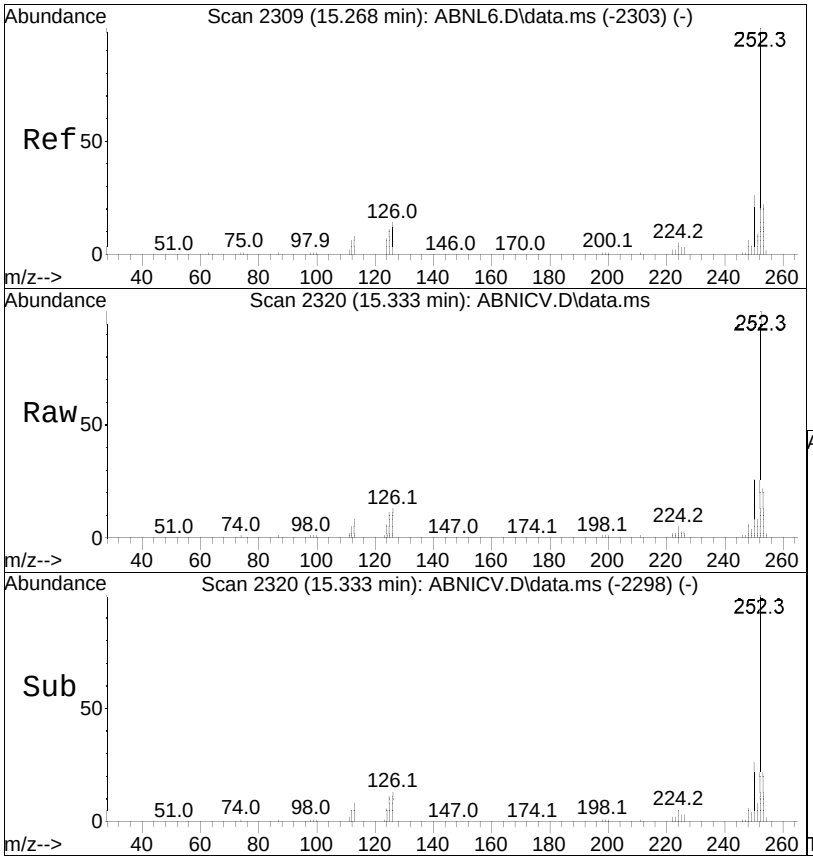


#111
Benzo(k)fluoranthene
Concen: 4.59 ug/ml
RT: 15.039 min Scan# 2270
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:252 Resp: 113429

Ion	Ratio	Lower	Upper
252	100		
125	12.1	13.0	19.6#
253	21.5	16.8	25.2

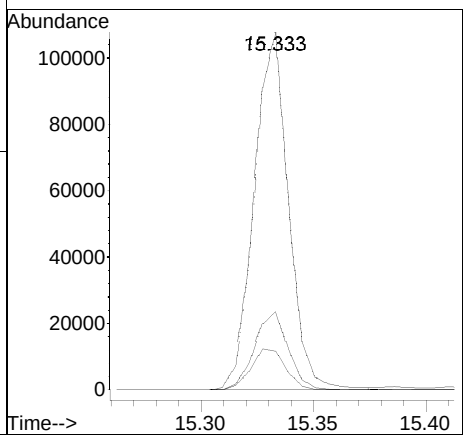


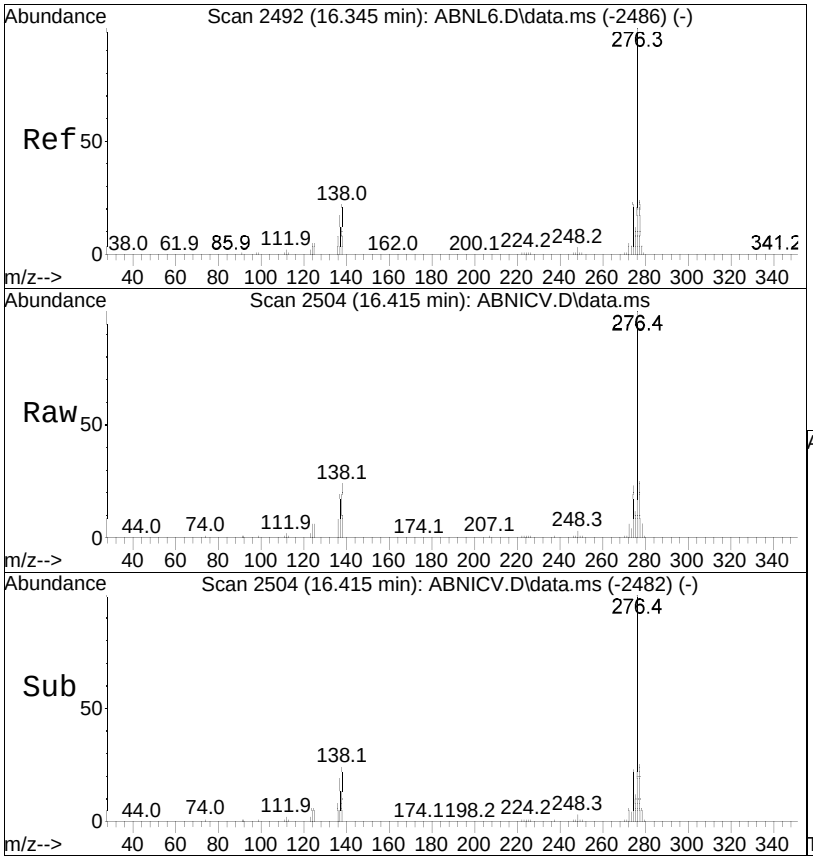


#112
Benzo(a)pyrene
Concen: 5.19 ug/ml
RT: 15.333 min Scan# 2320
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:252 Resp: 112953

Ion	Ratio	Lower	Upper
252	100		
125	11.9	14.2	21.2#
253	21.8	16.9	25.3

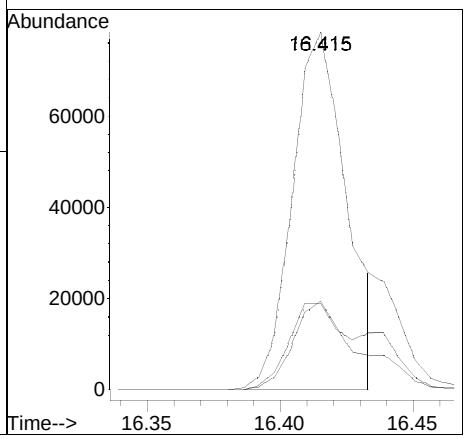


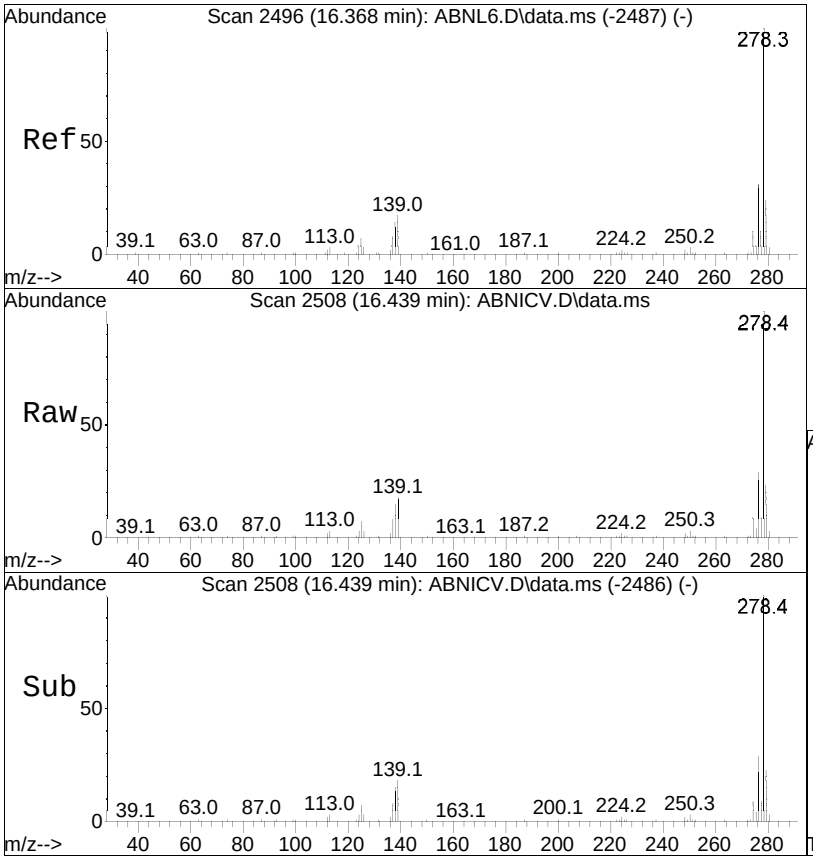


#114
Indeno(1,2,3-cd)pyrene
Concen: 4.88 ug/mL M6
RT: 16.415 min Scan# 2504
Delta R.T. 0.005 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:276 Resp: 111237

Ion	Ratio	Lower	Upper
276	100		
138	36.2	25.1	37.7
277	29.9	18.6	28.0#

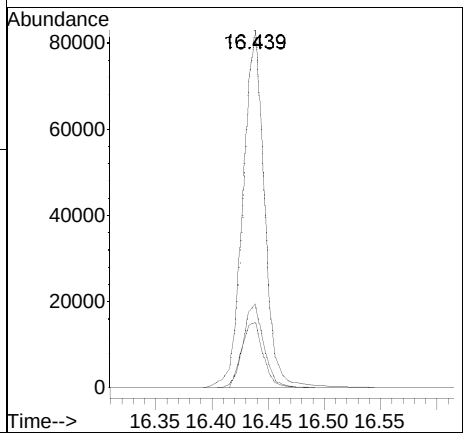


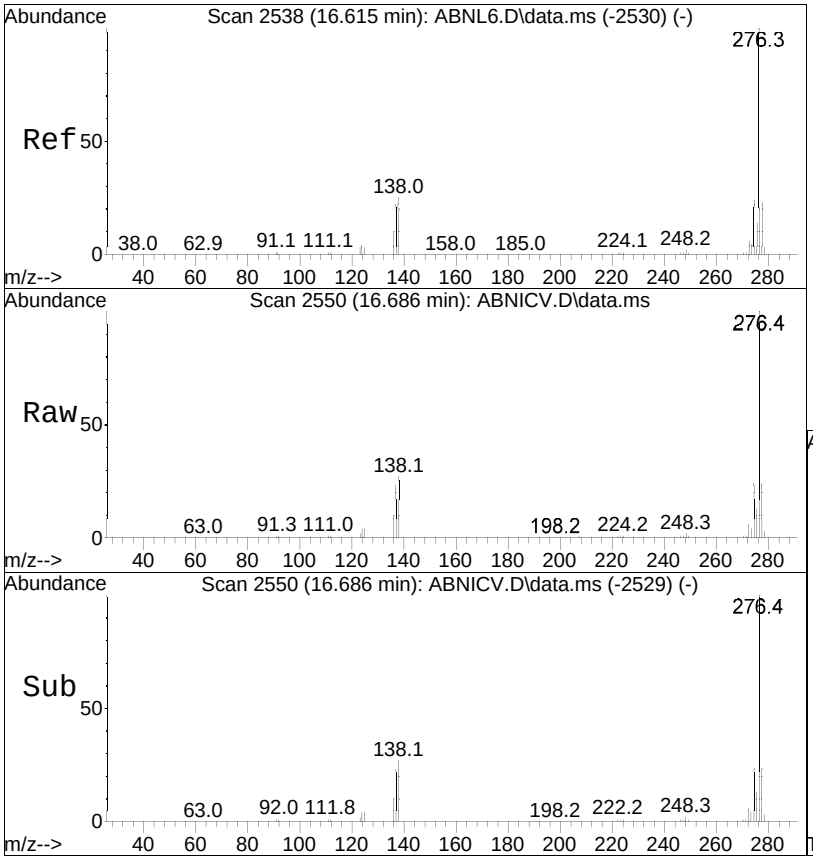


#115
Dibenzo(a,h)anthracene
Concen: 4.98 ug/ml
RT: 16.439 min Scan# 2508
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:278 Resp: 109077

Ion	Ratio	Lower	Upper
278	100		
139	18.6	20.8	31.2#
279	22.9	18.3	27.5

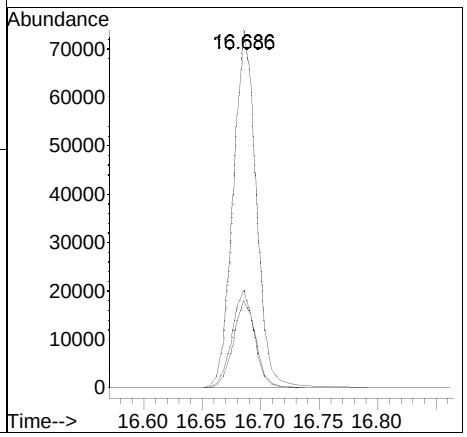




#116
Benzo(ghi)perylene
Concen: 5.00 ug/ml
RT: 16.686 min Scan# 2550
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 31 Jul 2024 3:03 am

Tgt Ion:276 Resp: 101486

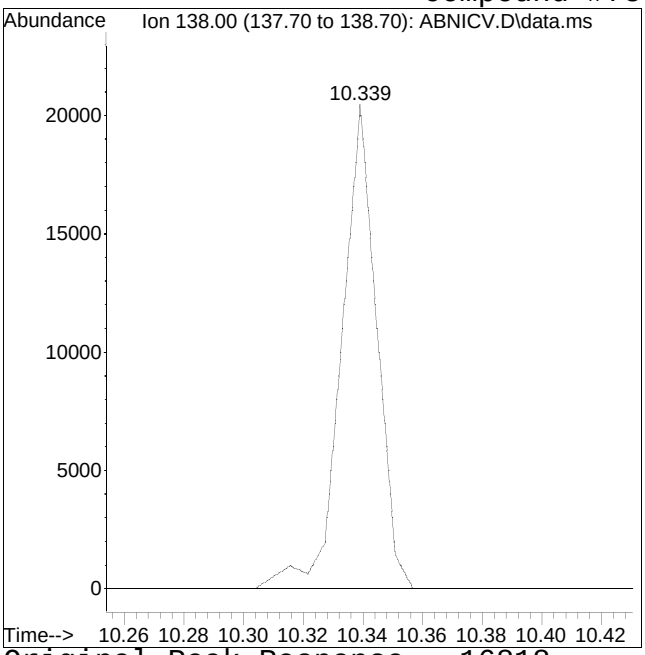
Ion	Ratio	Lower	Upper
276	100		
138	26.3	29.2	43.8#
277	23.9	18.8	28.2



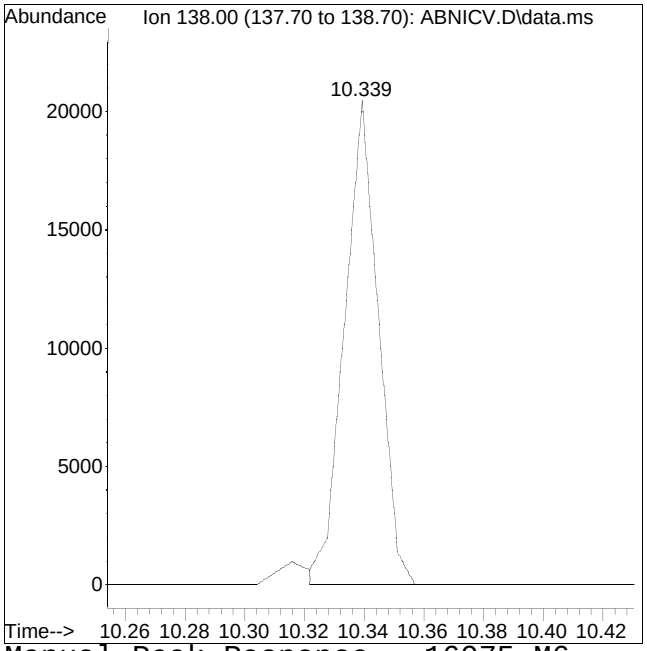
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNICV.D Operator : SV107:cmm
Date Inj'd : 7/31/2024 3:03 am Instrument : SV107
Sample : CQICV1,32,,ABNICV Lot# 108Quant Date : 8/2/2024 8:00 am

Compound #75: 4-Nitroaniline



Original Peak Response = 16818



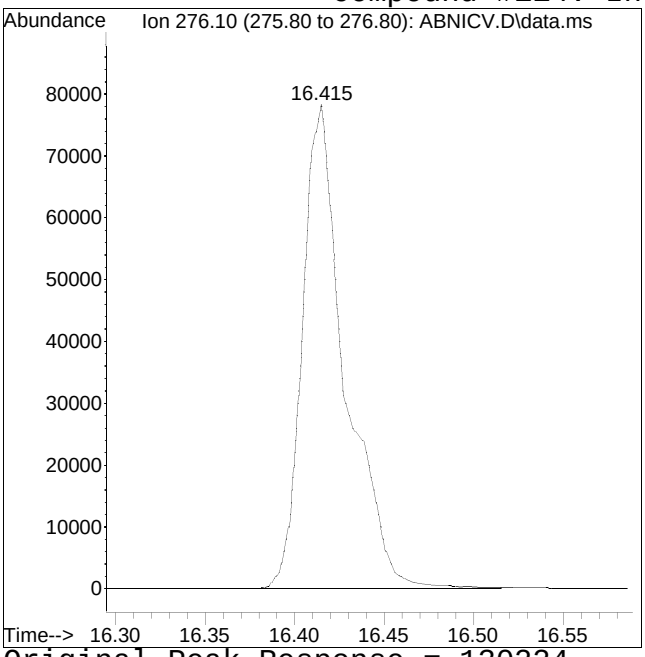
Manual Peak Response = 16075 M6

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

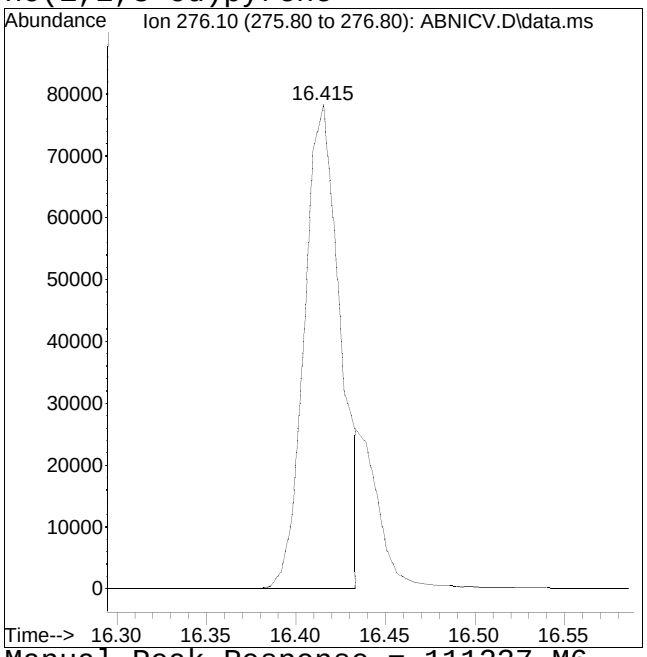
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ABNICV.D Operator : SV107:cmm
Date Inj'd : 7/31/2024 3:03 am Instrument : SV107
Sample : CQICV1,32,,ABNICV Lot# 108 Quant Date : 8/2/2024 8:00 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 130224



Manual Peak Response = 111237 M6

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240730ical\
Data File : AP9ICV.D
Acq On : 31 Jul 2024 3:29 am
Operator : SV107:cmm
Sample : CQICV2,32,,AP9ICV Lot# 10806
Misc : WG1954578,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 02 07:59:39 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 07:58:43 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	98	0.00
28	T	Benzaldehyde		1.145	1.083	5.4	97	0.00
29	T	Acetophenone		2.032	1.857	8.6	94	0.00
30	T	m-Toluidine		1.860	1.872	-0.6	97	0.00
31	T	2-Chloroaniline		1.773	1.709	3.6	95	0.00
55	I	IS2_Naphthalene-d8		1.000	1.000	0.0	101	0.00
56	T	a-Terpineol		0.297	0.278	6.4	92	0.00
57	T	3-Chloroaniline		0.163	0.151	7.4	92	0.00
58	T	2,6-Dichlorophenol		0.319	0.304	4.7	92	0.00
59	T	1-chloro-2-nitrobenzene		0.155	0.143	7.7	94	0.00
60	T	Caprolactam	*	5.000	4.192	16.2	93	0.00
61	T	1,2,4,5-Tetrachlorobenzene		0.444	0.388	12.6	92	0.00
62	T	Biphenyl		1.036	0.909	12.3	94	0.00
83	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	100	0.00
84	T	Dichloran	*	5.000	3.922	21.6#	94	0.00
85	T	Pentachloronitrobenzene	*	5.000	4.082	18.4	93	0.00
98	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	100	0.00
99	T	Diphenamid		0.507	0.439	13.4	91	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\SV107\240730ical\
Data File : AP9ICV.D
Acq On : 31 Jul 2024 3:29 am
Operator : SV107:cmm
Sample : CQICV2,32,,AP9ICV Lot# 10806
Misc : WG1954578,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 02 07:59:39 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 07:58:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
27) IS2_1,4-Dichlorobenzen...	6.610	152	16038	4.000 ug/ml	0.00
Standard Area 1 = 16322			Recovery =	98.26%	
55) IS2_Naphthalene-d8	8.016	136	60803	4.000 ug/ml	0.00
Standard Area 1 = 60303			Recovery =	100.83%	
83) IS2_Acenaphthene-d10	9.780	164	35188	4.000 ug/ml	0.00
Standard Area 1 = 35340			Recovery =	99.57%	
98) IS2_Phenanthrene-d10	11.221	188	70109	4.000 ug/ml #	0.00
Standard Area 1 = 69901			Recovery =	100.30%	
System Monitoring Compounds					
Target Compounds					Qvalue
28) Benzaldehyde	6.045	105	21714	4.732 ug/ml	93
29) Acetophenone	7.092	105	37238	4.571 ug/ml#	83
30) m-Toluidine	7.192	106	37521	5.032 ug/ml	95
31) 2-Chloroaniline	7.592	127	34268	4.822 ug/ml#	93
56) a-Terpineol	8.081	59	21115	4.679 ug/ml#	83
57) 3-Chloroaniline	8.098	65	11441	4.629 ug/ml	98
58) 2,6-Dichlorophenol	8.128	162	23103	4.757 ug/ml#	88
59) 1-chloro-2-nitrobenzene	8.392	111	10890	4.622 ug/ml#	1
60) Caprolactam	8.428	55	10543	4.192 ug/ml#	68
61) 1,2,4,5-Tetrachloroben...	8.928	216	29474	4.365 ug/ml	98
62) Biphenyl	9.227	154	69073	4.387 ug/ml	98
84) Dichloran	10.916	206	6837	3.922 ug/ml#	72
85) Pentachloronitrobenzene	11.069	237	6841	4.082 ug/ml#	84
99) Diphenamid	12.127	167	38499	4.337 ug/ml#	81

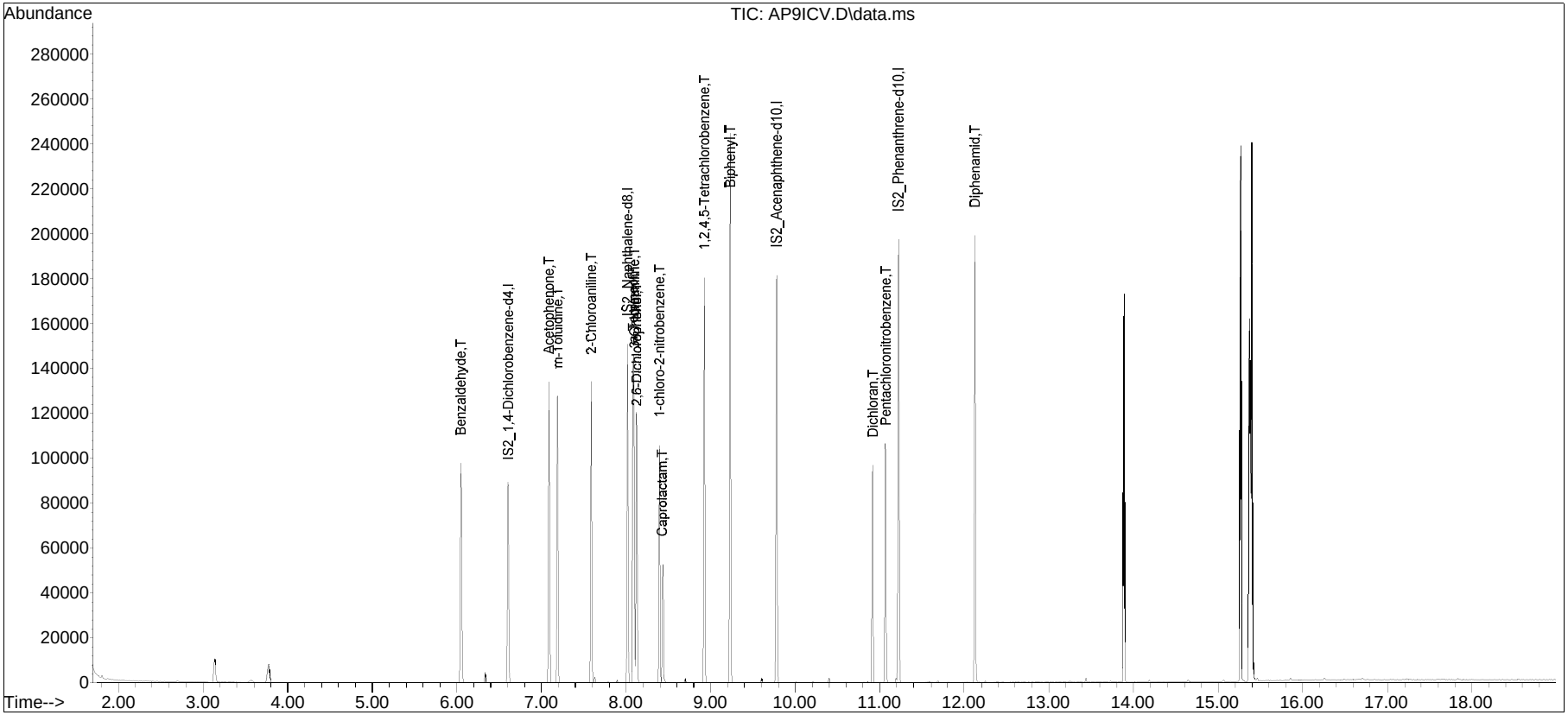
(#) = qualifier out of range (m) = manual integration (+) = signals summed

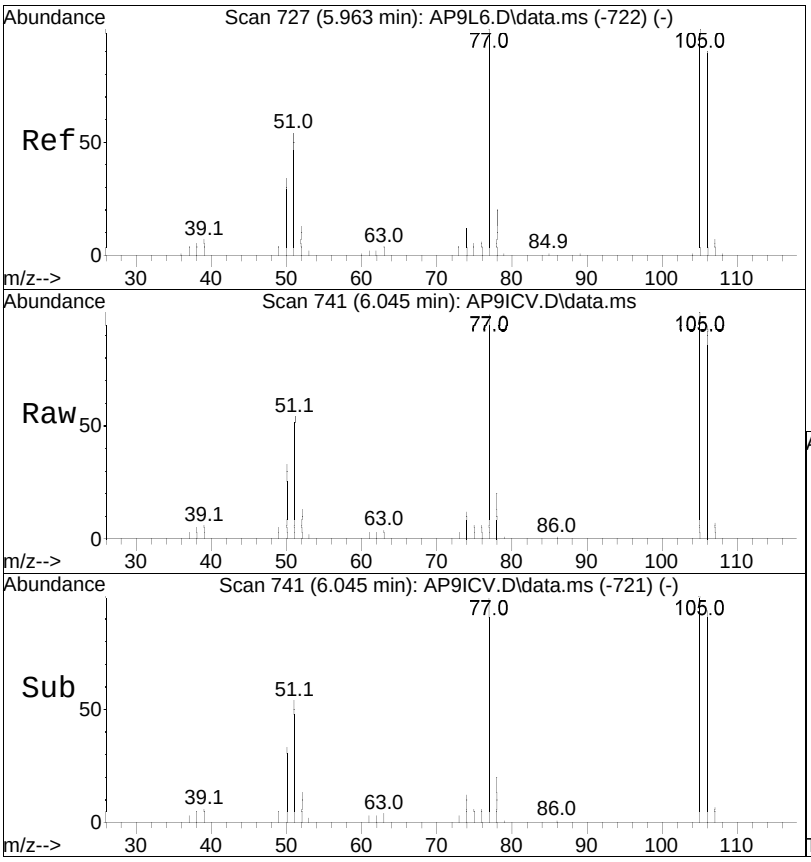
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : AP9ICV.D
Acq On : 31 Jul 2024 3:29 am
Operator : SV107:cmm
Sample : CQICV2,32,,AP9ICV Lot# 10806
Misc : WG1954578,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 02 07:59:39 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 07:58:43 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•

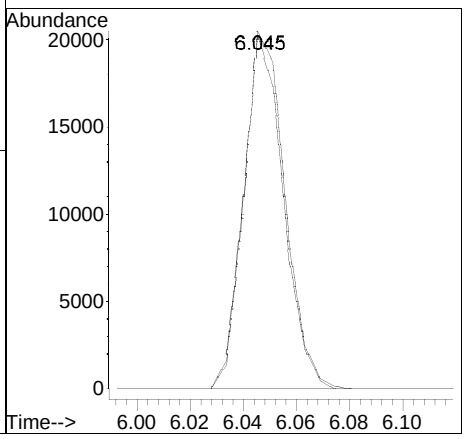


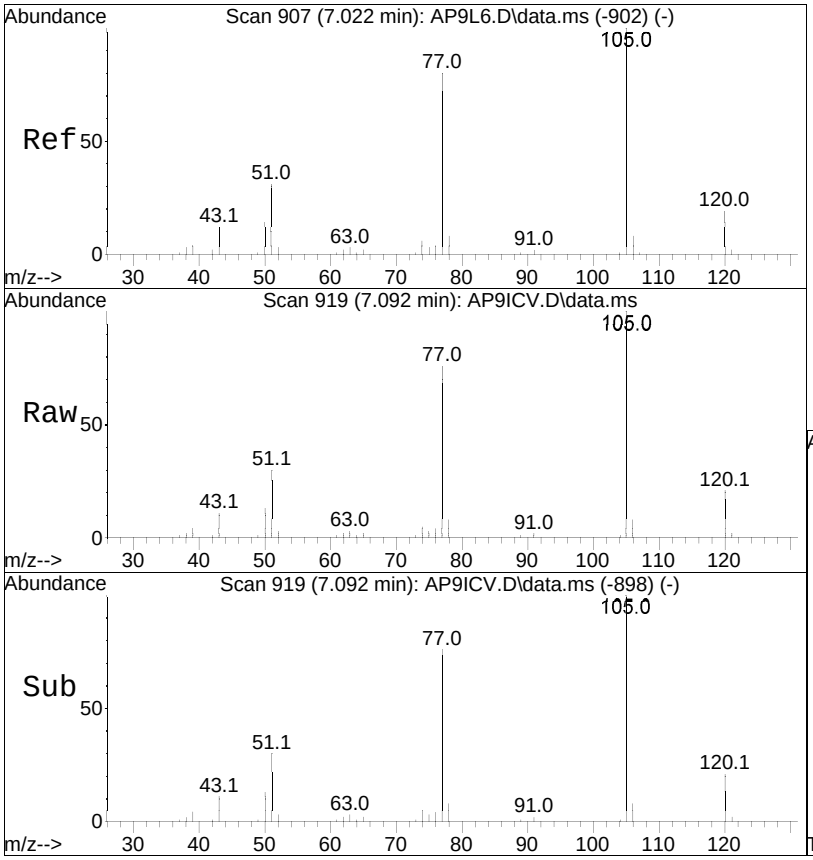


#28
Benzaldehyde
Concen: 4.73 ug/ml
RT: 6.045 min Scan# 741
Delta R.T. -0.006 min
Lab File: AP9ICV.D
Acq: 31 Jul 2024 3:29 am

Tgt Ion:105 Resp: 21714

Ion	Ratio	Lower	Upper
105	100		
77	96.2	82.2	123.4

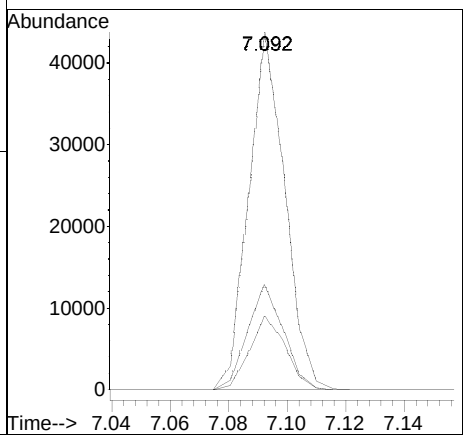


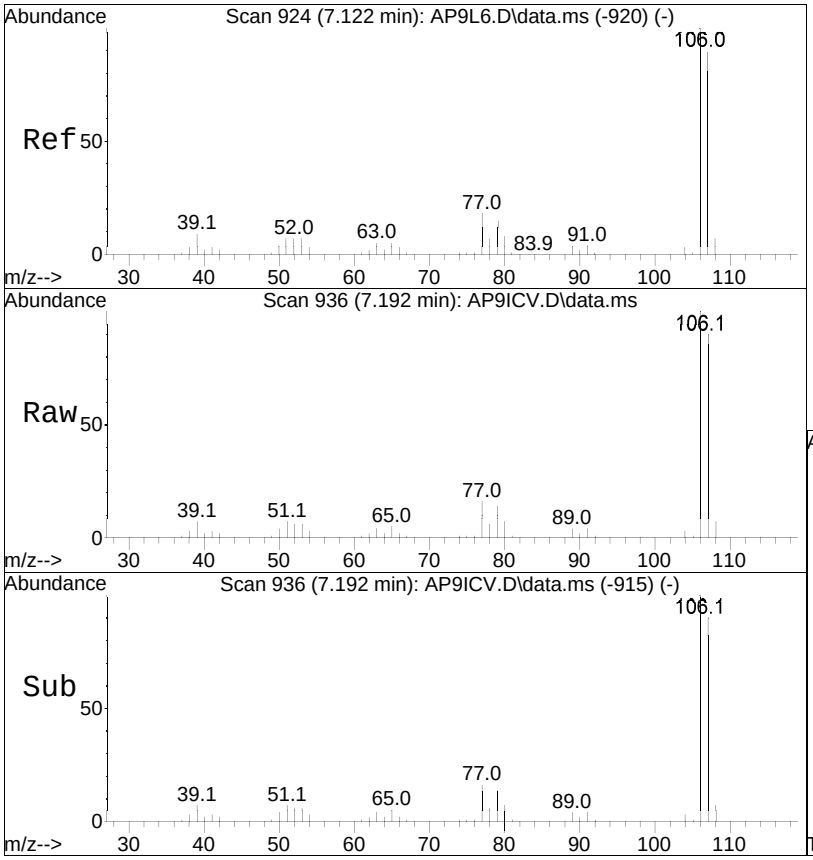


#29
Acetophenone
Concen: 4.57 ug/ml
RT: 7.092 min Scan# 919
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 31 Jul 2024 3:29 am

Tgt Ion:105 Resp: 37238

Ion	Ratio	Lower	Upper
105	100		
120	20.7	20.5	30.7
51	29.5	34.9	52.3#

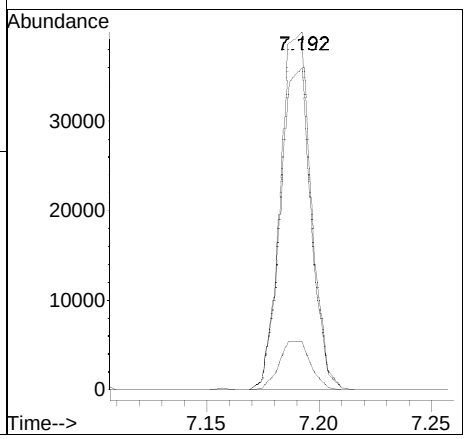


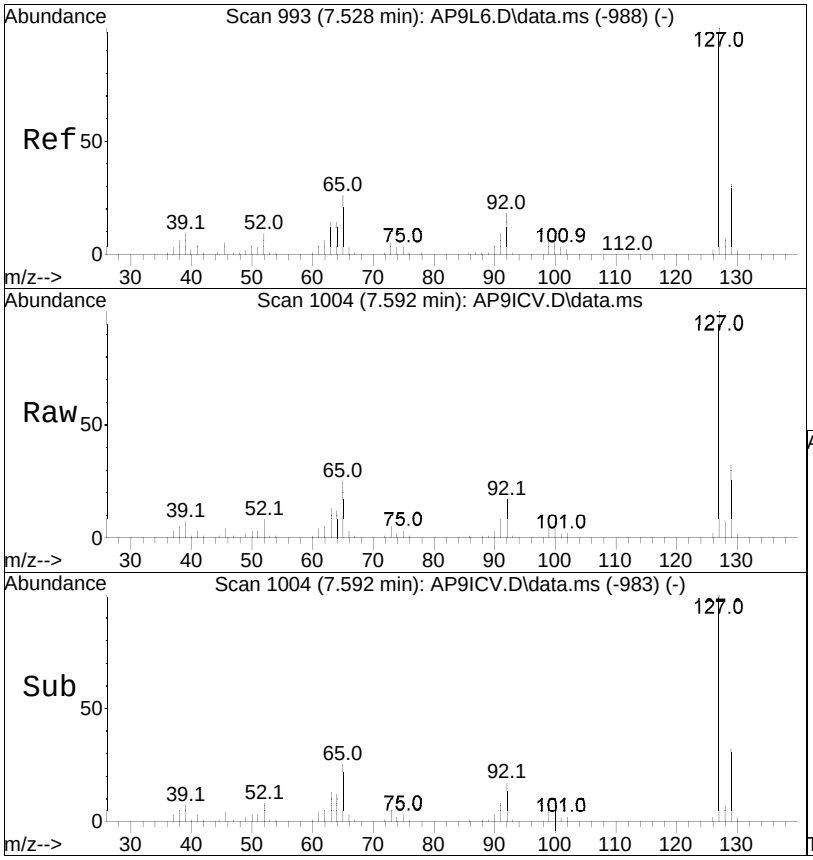


#30
m-Toluidine
Concen: 5.03 ug/ml
RT: 7.192 min Scan# 936
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 31 Jul 2024 3:29 am

Tgt Ion:106 Resp: 37521

Ion	Ratio	Lower	Upper
106	100		
107	89.7	75.7	113.5
79	14.0	11.8	17.8

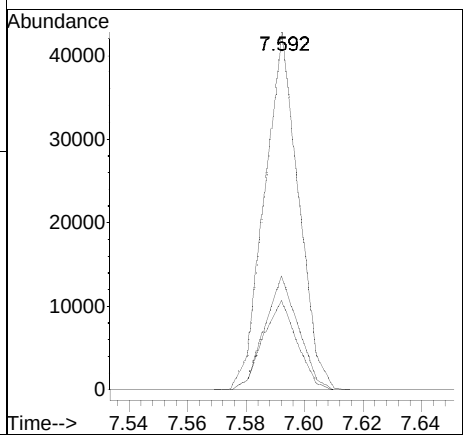


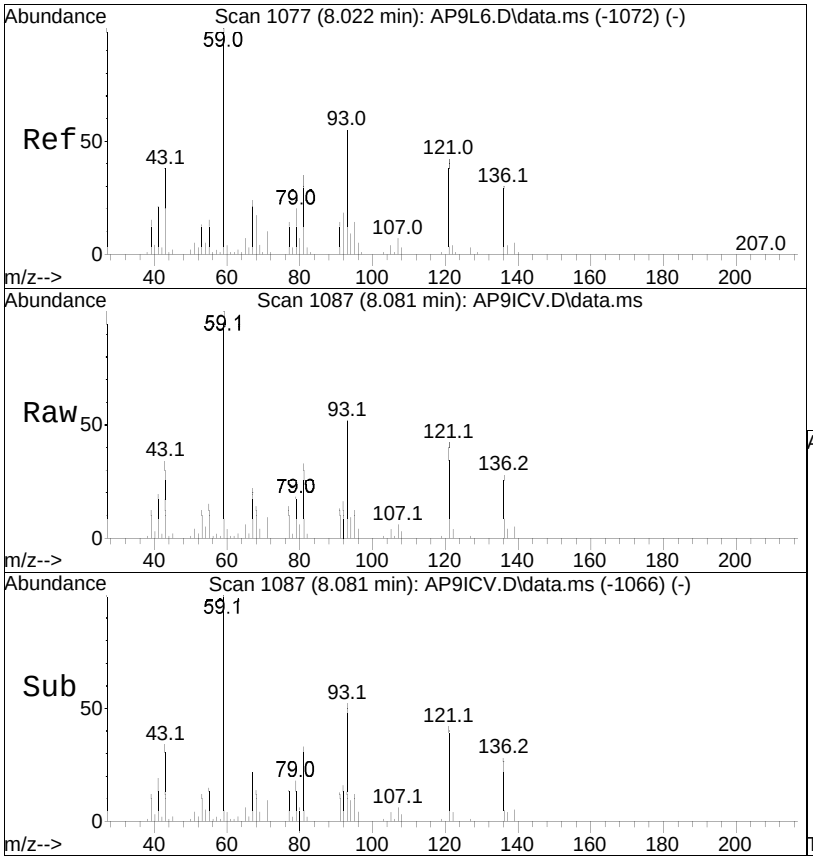


#31
2-Chloroaniline
Concen: 4.82 ug/ml
RT: 7.592 min Scan# 1004
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 31 Jul 2024 3:29 am

Tgt Ion:127 Resp: 34268

Ion	Ratio	Lower	Upper
127	100		
129	31.8	25.9	38.9
65	25.2	26.3	39.5#

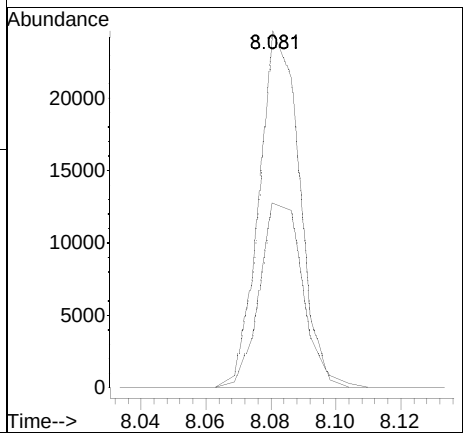


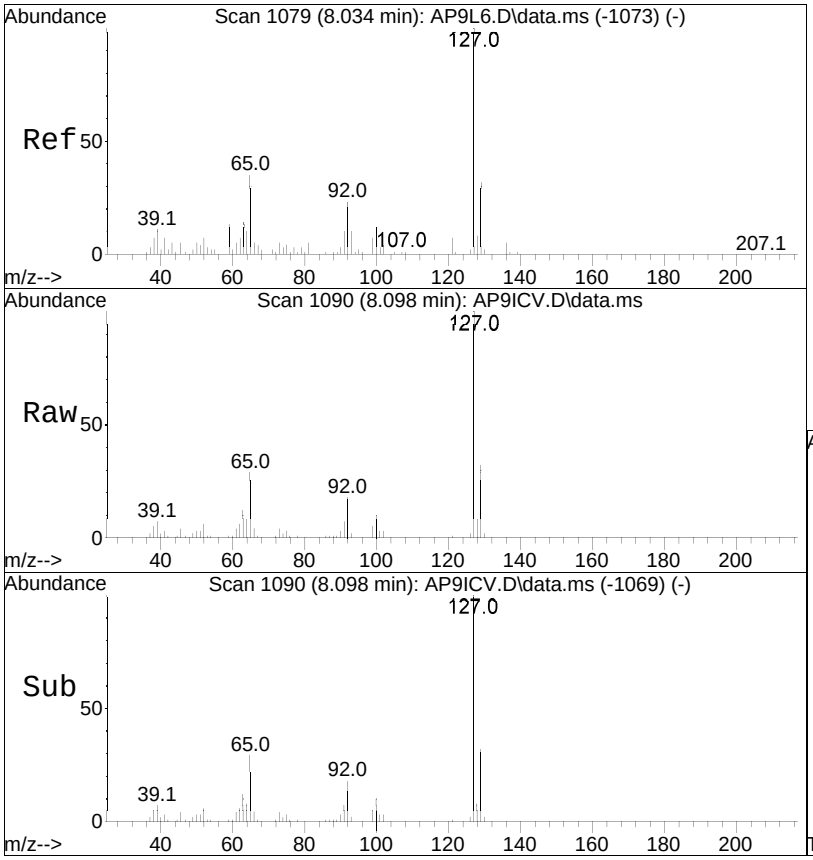


#56
a-Terpineol
Concen: 4.68 ug/ml
RT: 8.081 min Scan# 1087
Delta R.T. 0.001 min
Lab File: AP9ICV.D
Acq: 31 Jul 2024 3:29 am

Tgt Ion: 59 Resp: 21115

Ion	Ratio	Lower	Upper
59	100		
93	55.9	35.6	53.4#

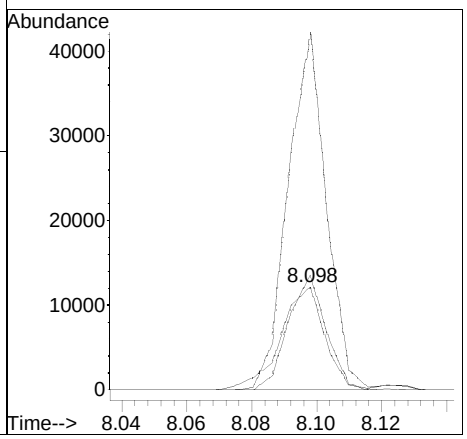


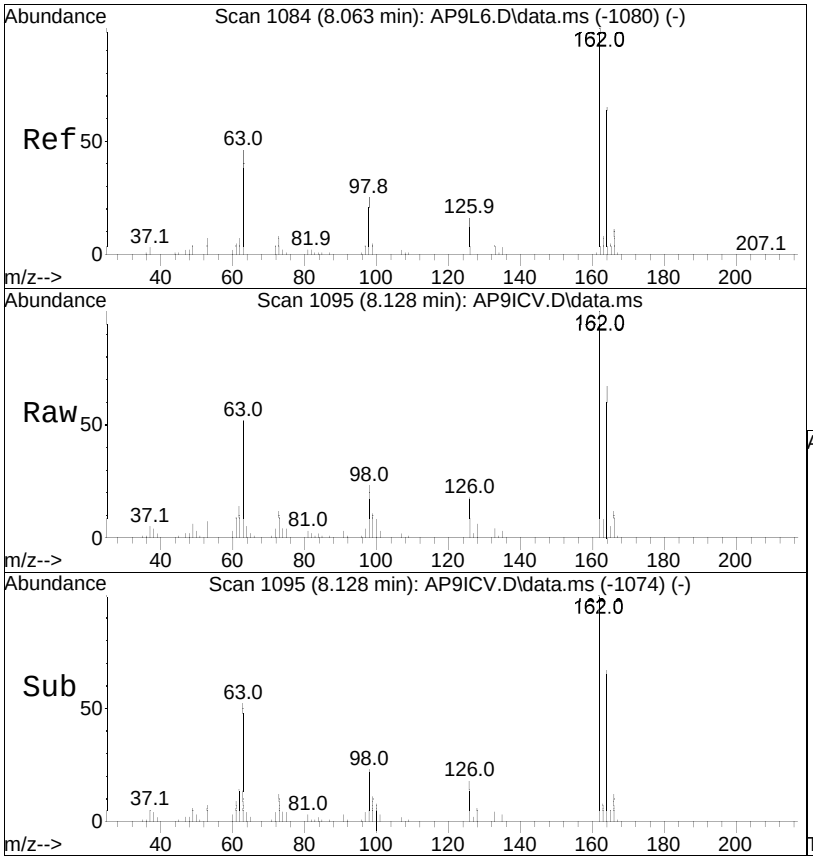


#57
3-Chloroaniline
Concen: 4.63 ug/ml
RT: 8.098 min Scan# 1090
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 31 Jul 2024 3:29 am

Tgt Ion: 65 Resp: 11441

Ion	Ratio	Lower	Upper
65	100		
127	300.8	243.2	364.8
129	95.6	78.8	118.2

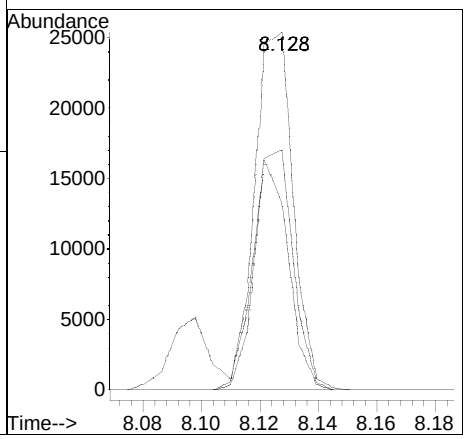


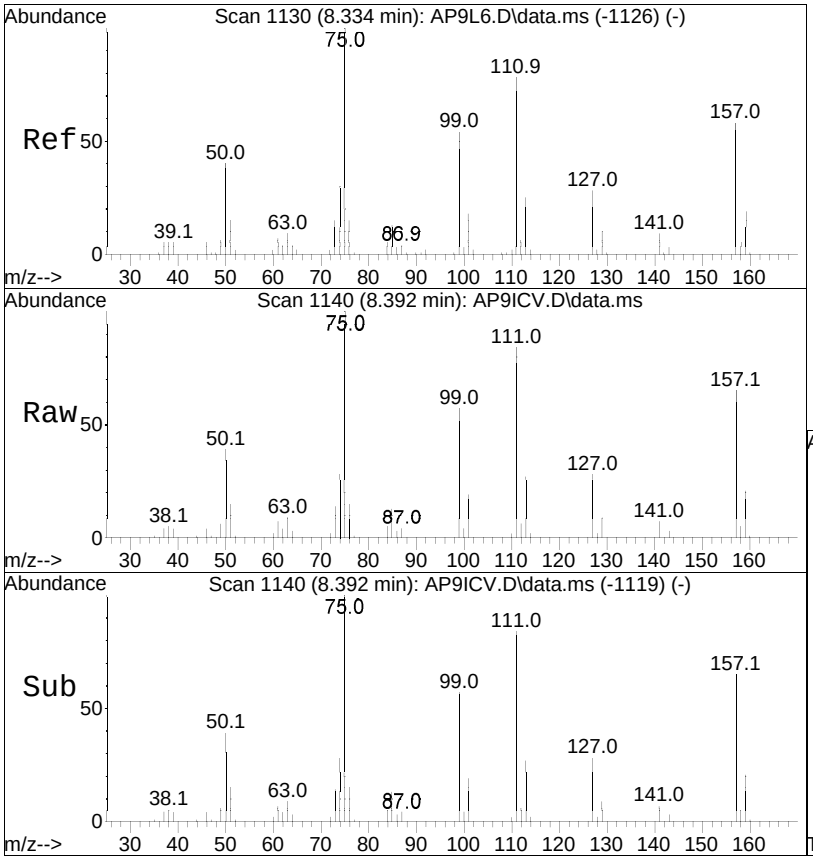


#58
2,6-Dichlorophenol
Concen: 4.76 ug/ml
RT: 8.128 min Scan# 1095
Delta R.T. 0.001 min
Lab File: AP9ICV.D
Acq: 31 Jul 2024 3:29 am

Tgt Ion:162 Resp: 23103

Ion	Ratio	Lower	Upper
162	100		
164	66.7	51.1	76.7
63	59.3	60.8	91.2#

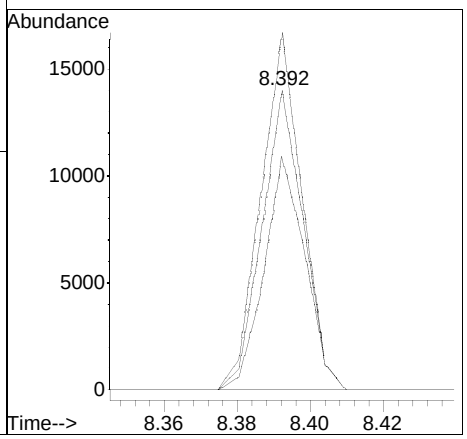


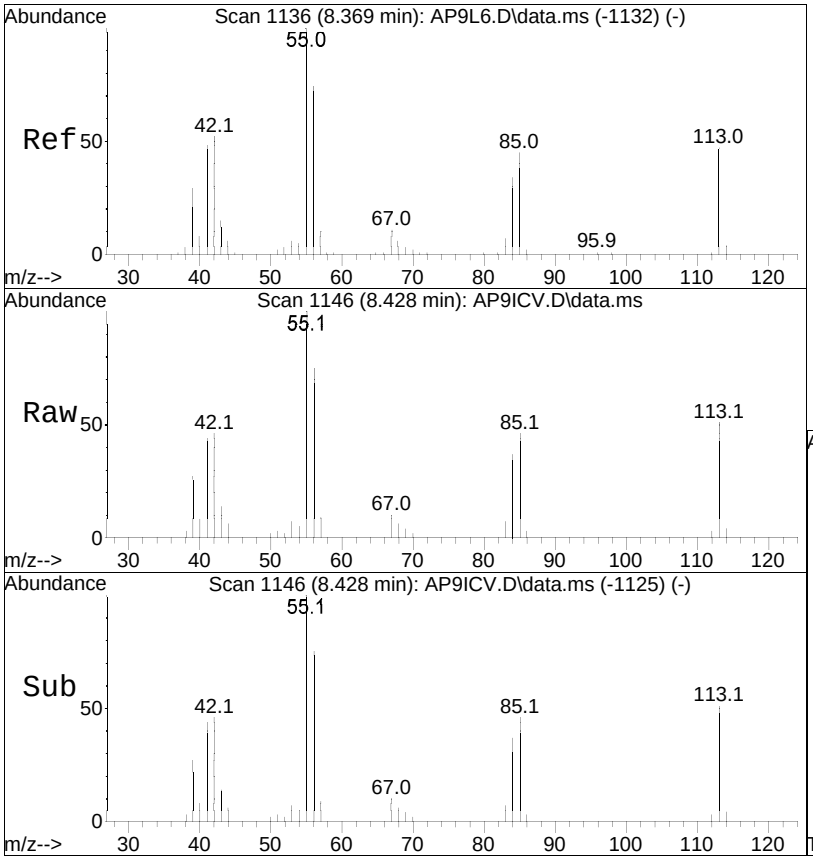


#59
1-chloro-2-nitrobenzene
Concen: 4.62 ug/ml
RT: 8.392 min Scan# 1140
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 31 Jul 2024 3:29 am

Tgt Ion:111 Resp: 10890

Ion	Ratio	Lower	Upper
111	100		
157	77.4	0.0	0.0#
75	118.5	28.2	42.2#

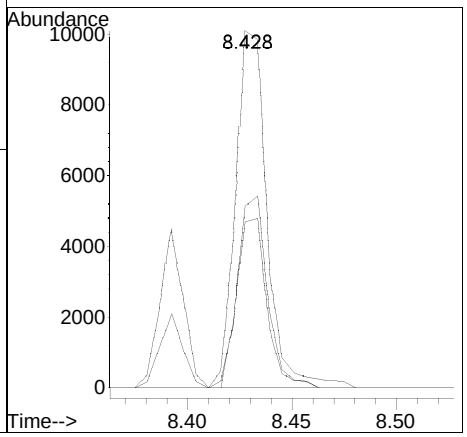


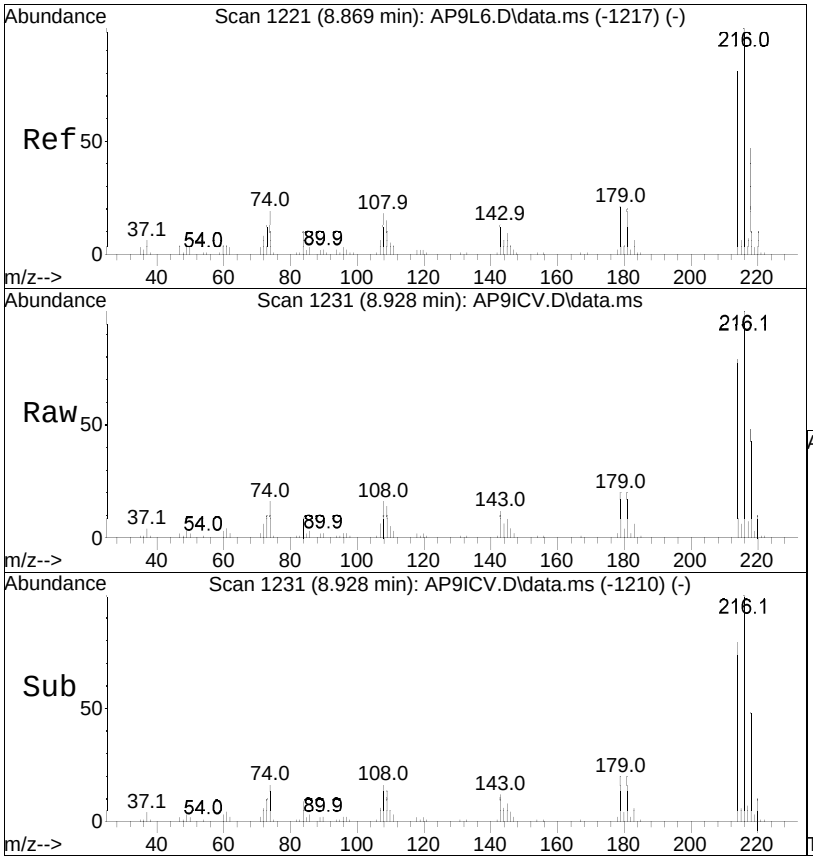


#60
Caprolactam
Concen: 4.19 ug/ml
RT: 8.428 min Scan# 1146
Delta R.T. 0.001 min
Lab File: AP9ICV.D
Acq: 31 Jul 2024 3:29 am

Tgt Ion: 55 Resp: 10543

Ion	Ratio	Lower	Upper
55	100		
85	45.8	19.8	29.6#
113	51.8	29.6	44.4#

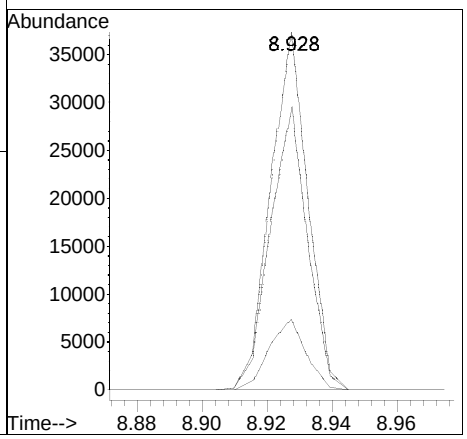


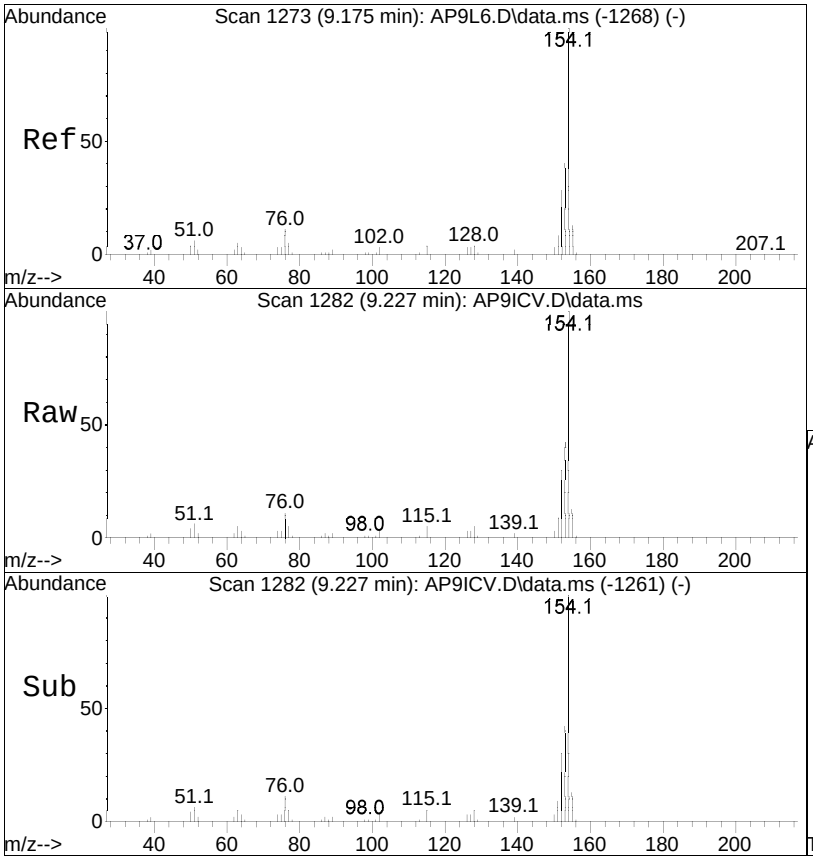


#61
1,2,4,5-Tetrachlorobenzene
Concen: 4.37 ug/ml
RT: 8.928 min Scan# 1231
Delta R.T. 0.001 min
Lab File: AP9ICV.D
Acq: 31 Jul 2024 3:29 am

Tgt Ion:216 Resp: 29474

Ion	Ratio	Lower	Upper
216	100		
214	79.2	63.7	95.5
179	19.7	19.0	28.6

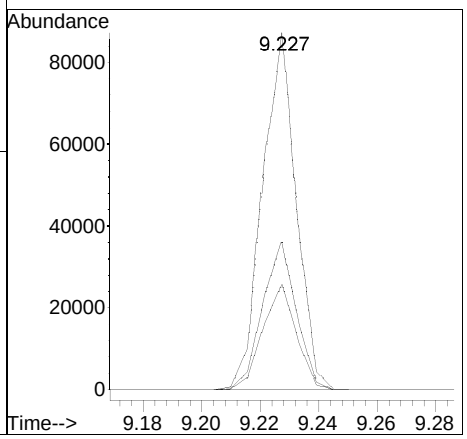


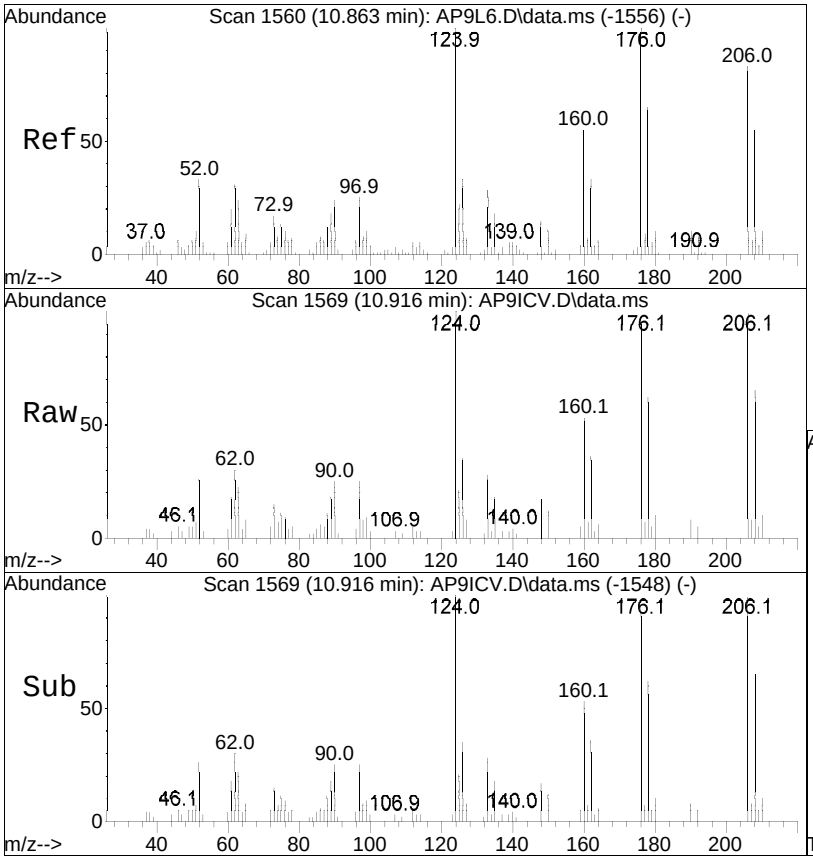


#62
Biphenyl
Concen: 4.39 ug/ml
RT: 9.227 min Scan# 1282
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 31 Jul 2024 3:29 am

Tgt Ion:154 Resp: 69073

Ion	Ratio	Lower	Upper
154	100		
153	41.7	32.3	48.5
152	29.7	22.5	33.7

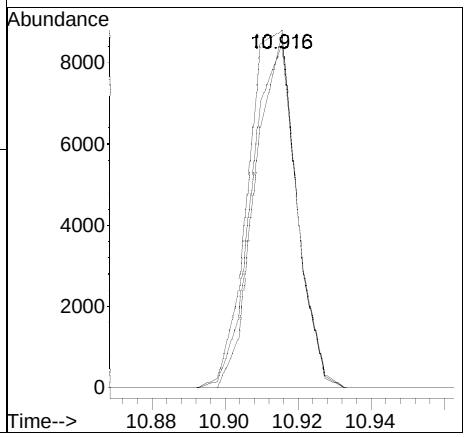


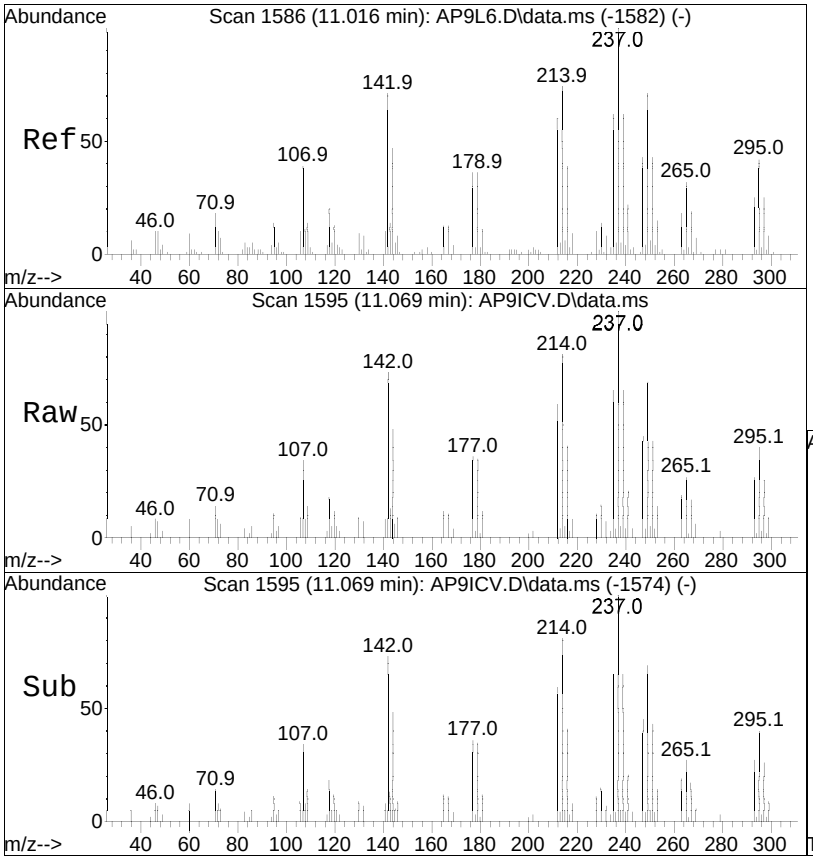


#84
Dichloran
Concen: 3.92 ug/ml
RT: 10.916 min Scan# 1569
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 31 Jul 2024 3:29 am

Tgt Ion:206 Resp: 6837

Ion	Ratio	Lower	Upper
206	100		
176	105.9	104.6	157.0
124	117.4	130.5	195.7#

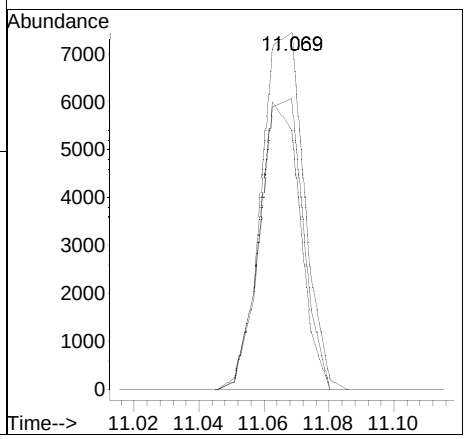


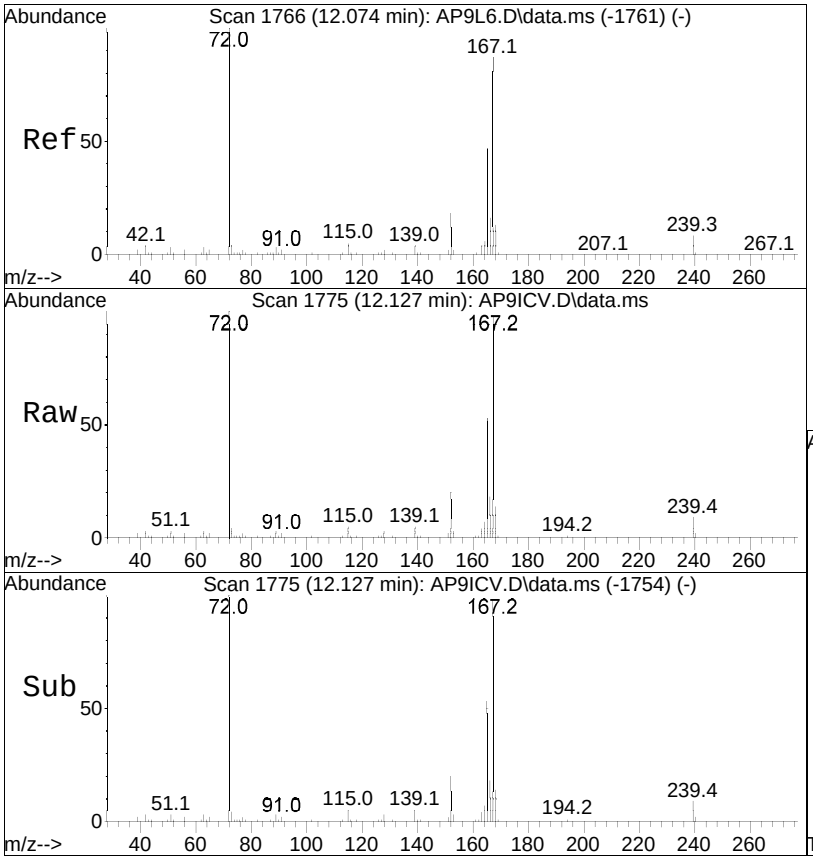


#85
Pentachloronitrobenzene
Concen: 4.08 ug/ml
RT: 11.069 min Scan# 1595
Delta R.T. 0.001 min
Lab File: AP9ICV.D
Acq: 31 Jul 2024 3:29 am

Tgt Ion:237 Resp: 6841

Ion	Ratio	Lower	Upper
237	100		
142	76.7	77.0	115.4#
214	80.9	58.2	87.4

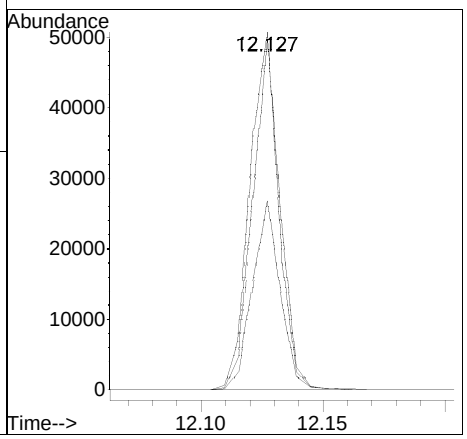




#99
Diphenamid
Concen: 4.34 ug/ml
RT: 12.127 min Scan# 1775
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 31 Jul 2024 3:29 am

Tgt Ion:167 Resp: 38499

Ion	Ratio	Lower	Upper
167	100		
72	106.6	109.7	164.5#
165	55.0	41.8	62.6



Manual Integration Report

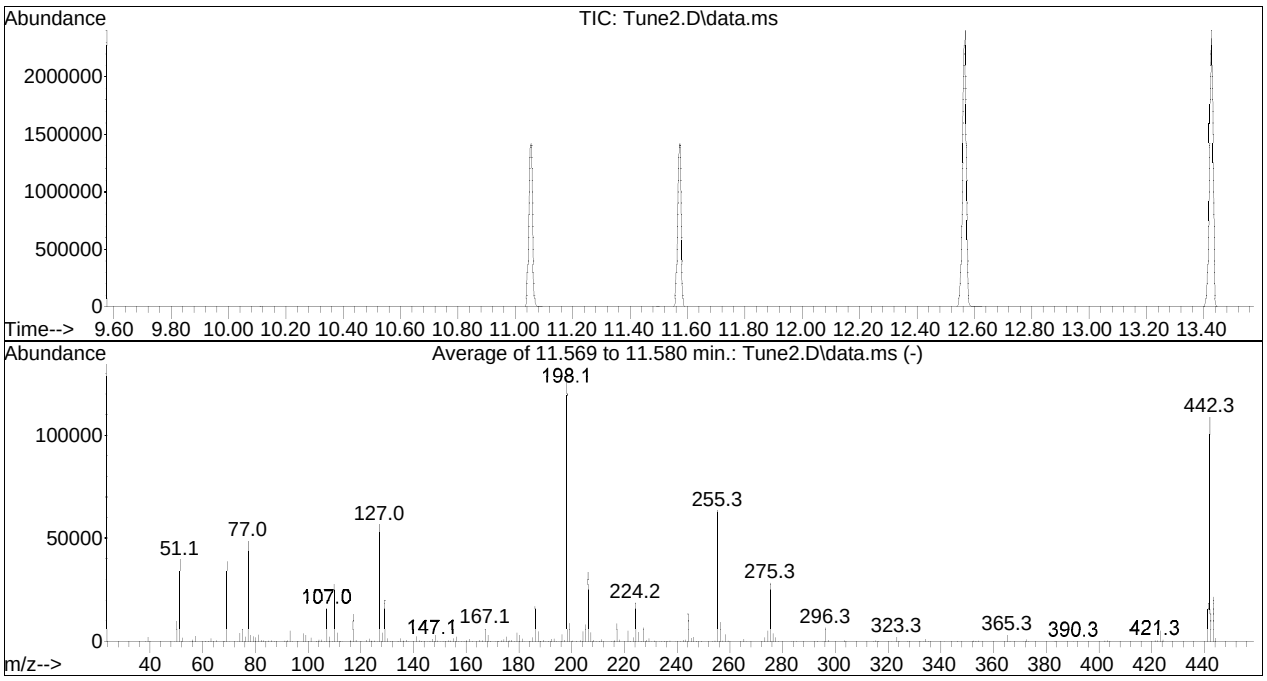
Data Path	: I:\8270\SV107\240730ical\	QMethod	: FS240730SV107RVT.m
Data File	: AP9ICV.D	Operator	: SV107:cmm
Date Inj'd	: 7/31/2024 3:29 am	Instrument	: SV107
Sample	: CQICV2,32,,AP9ICV Lot# 108	Quant Date	: 8/2/2024 8:00 am

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

Data Path : I:\8270\SV107\240730ical\
Data File : Tune2.D
Acq On : 31 Jul 2024 3:54 am
Operator : SV107:cmm
Sample : Tune lot #10903
Misc : WG1954578,,
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Aug 02 07:49:58 2024



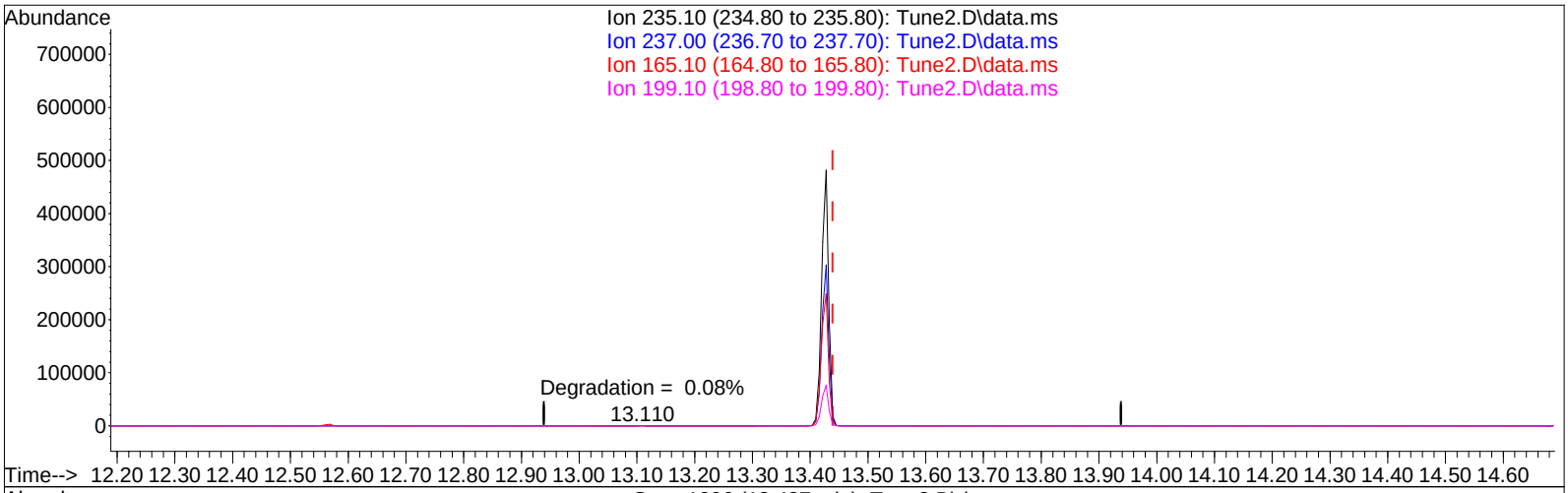
Spectrum Information: Average of 11.569 to 11.580 min.

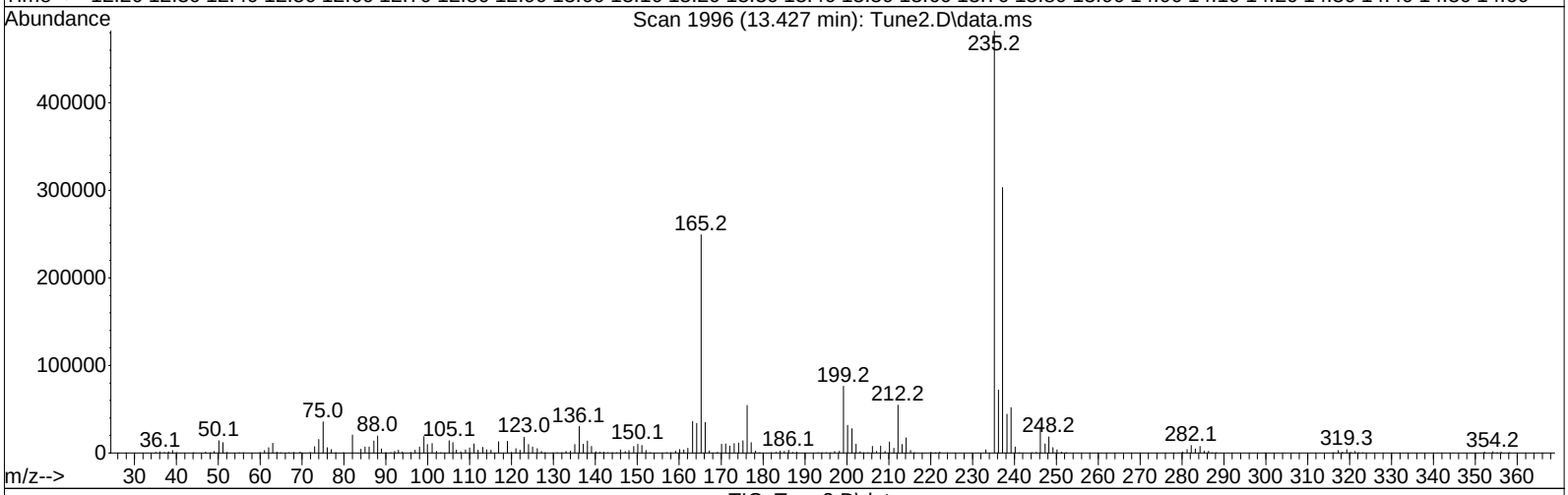
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	30.9	39587	PASS
68	69	0.00	2	1.4	526	PASS
69	69	100	100	100.0	38555	PASS
70	69	0.00	2	0.5	187	PASS
127	198	10	80	44.1	56445	PASS
197	198	0.00	2	0.7	932	PASS
198	198	100	100	100.0	127965	PASS
199	198	5	9	6.8	8714	PASS
275	198	10	60	22.0	28209	PASS
365	198	1	100	2.5	3141	PASS
441	442	0.01	24	17.0	18461	PASS
442	198	50	100	85.0	108795	PASS
443	442	15	24	19.9	21692	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240730ical\
Data File : Tune2.D
Acq On : 31 Jul 2024 3:54 am
Operator : SV107:cmm
Sample : Tune lot #10903
Misc : WG1954578,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Aug 02 08:20:09 2024
Quant Method : I:\8270\SV107\240730ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 08:19:44 2024
Response via : Initial Calibration





TIC: Tune2.D\data.ms

(6) DDT (T)

13.427min (-0.012) 66.93

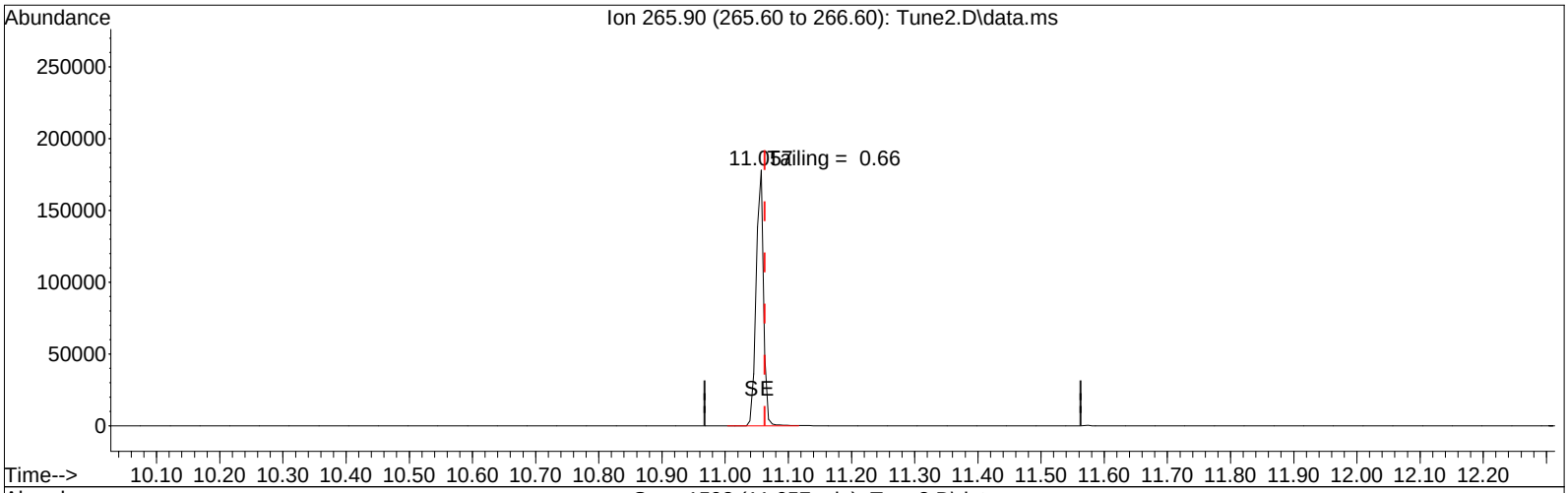
response 407963

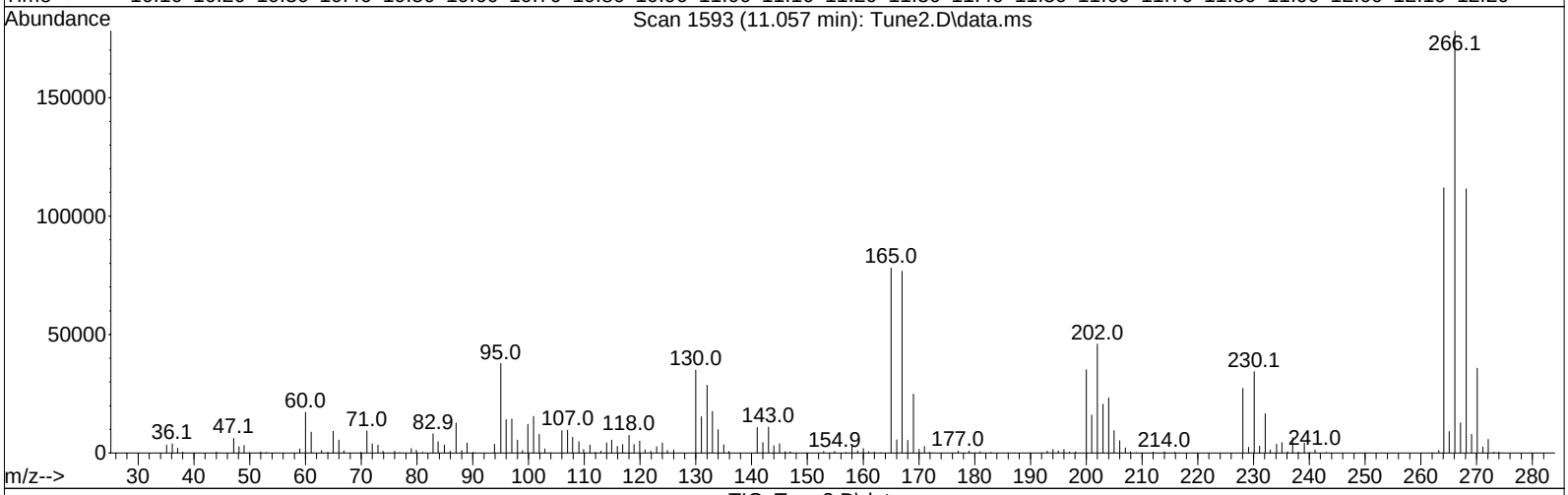
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	64.30	63.41
165.10	55.40	52.11
199.10	16.20	15.74

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240730ical\
Data File : Tune2.D
Acq On : 31 Jul 2024 3:54 am
Operator : SV107:cmm
Sample : Tune lot #10903
Misc : WG1954578,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Aug 02 08:20:09 2024
Quant Method : I:\8270\SV107\240730ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 08:19:44 2024
Response via : Initial Calibration





TIC: Tune2.D\data.ms

(1) Pentachlorophenol (T)

11.057min (-0.006) 69.47

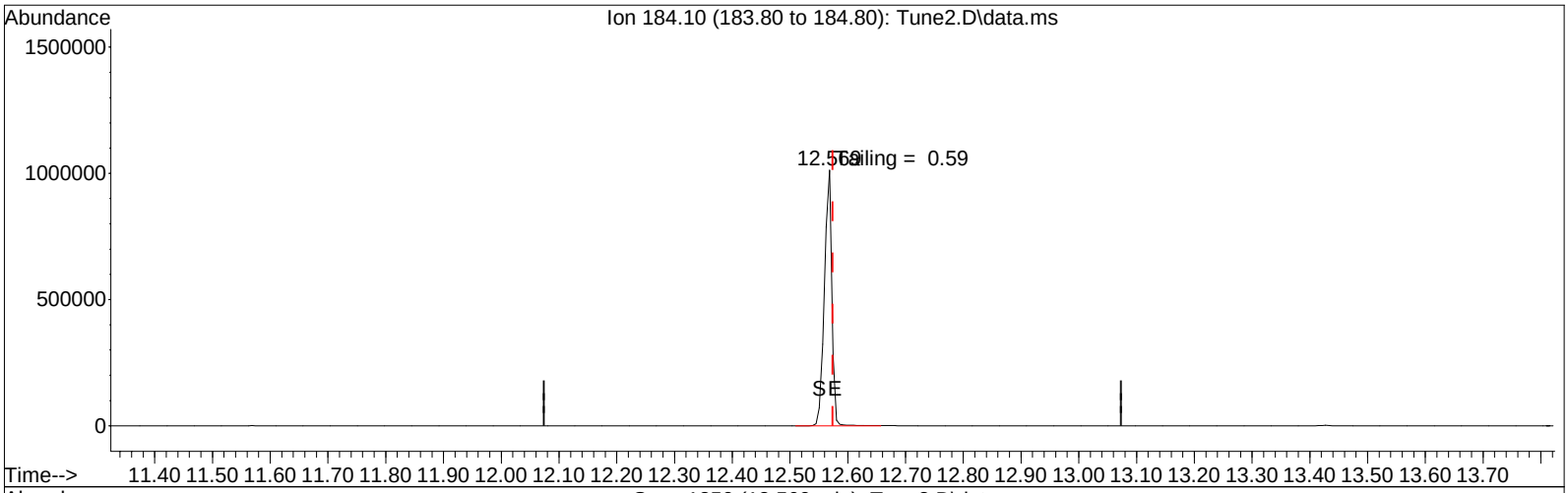
response 145915

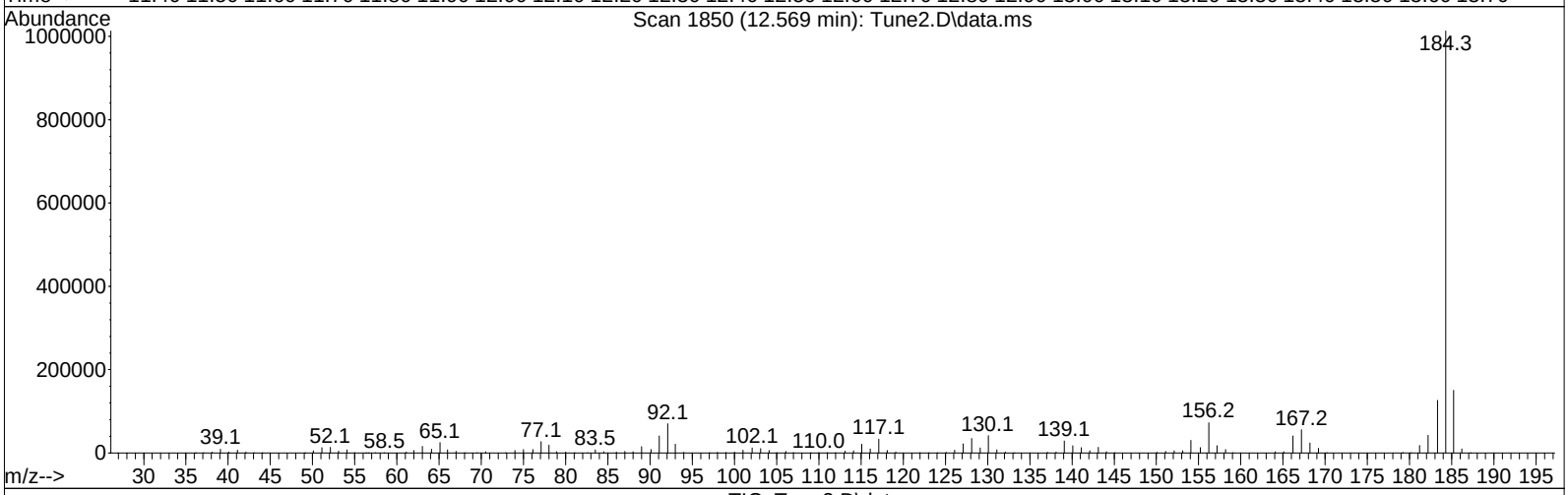
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240730ical\
Data File : Tune2.D
Acq On : 31 Jul 2024 3:54 am
Operator : SV107:cmm
Sample : Tune lot #10903
Misc : WG1954578,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Aug 02 08:20:09 2024
Quant Method : I:\8270\SV107\240730ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 08:19:44 2024
Response via : Initial Calibration





TIC: Tune2.D\data.ms

(3) Benzidine (T)

12.569min (-0.005) 87.79

response 893755

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\SV107\240730ical\
Data File : ADPL9.D
Acq On : 31 Jul 2024 4:19 am
Operator : SV107:cmm
Sample : IL2,32,,ADPL50 Lot# 10796
Misc : WG1954578,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 02 09:02:51 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 07:58:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
	Internal Standards						
32)	IS3_1,4-Dichlorobenzen...	6.610	152	14976	4.000	ug/ml	0.00
	Standard Area 1 = 17818			Recovery =	84.05%		
86)	IS3_Acenaphthene-d10	9.781	164	32663	4.000	ug/ml	0.00
	Standard Area 1 = 37262			Recovery =	87.66%		
100)	IS3_Phenanthrene-d10	11.222	188	69255	4.000	ug/ml	0.00
	Standard Area 1 = 75179			Recovery =	92.12%		
	System Monitoring Compounds						
	Target Compounds						Qvalue
33)	1,4-Dioxane	2.052	88	83466	48.527	ug/ml#	80
34)	n-Decane	6.498	57	282541	54.351	ug/ml#	54
87)	Atrazine	10.992	200	184179	71.691	ug/ml	95
101)	n-Octadecane	11.192	57	408031	61.804	ug/ml#	1
102)	Parathion	12.010	109	116269	49.761	ug/ml	97
103)	3,3'-Dimethylbenzidine	13.316	212	801775	53.025	ug/ml	98

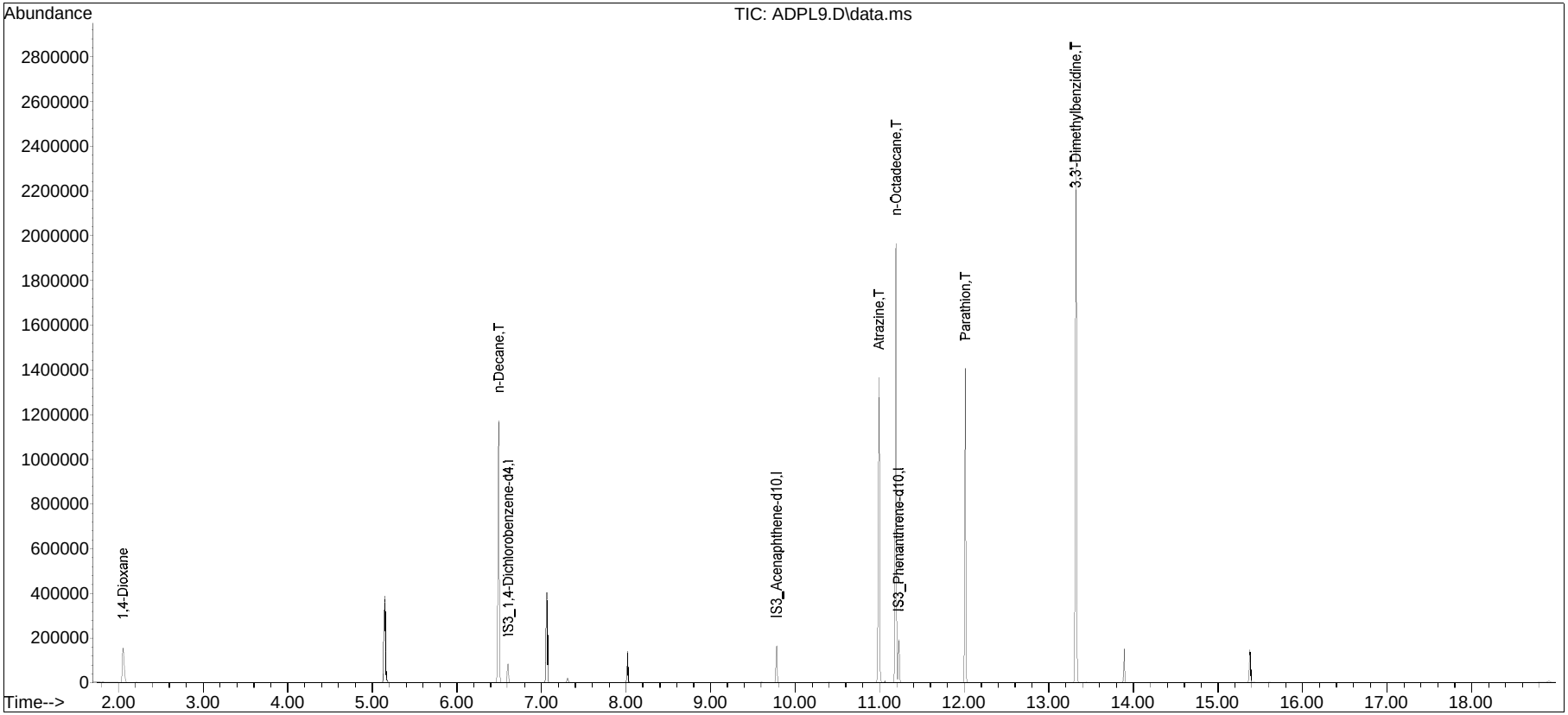
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ADPL9.D
Acq On : 31 Jul 2024 4:19 am
Operator : SV107:cmm
Sample : IL2,32,,ADPL50 Lot# 10796
Misc : WG1954578,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 02 09:02:51 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 07:58:43 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240730ical\	QMethod	: FS240730SV107RVT.m
Data File	: ADPL9.D	Operator	: SV107:cmm
Date Inj'd	: 7/31/2024 4:19 am	Instrument	: SV107
Sample	: IL2,32,,ADPL50 Lot# 10796	Quant Date	: 8/2/2024 9:04 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ADPL8.D
Acq On : 31 Jul 2024 4:45 am
Operator : SV107:cmm
Sample : IL3,32,,ADPL25 Lot# 10797
Misc : WG1954578,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 02 09:02:42 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 07:58:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
	Internal Standards							
32)	IS3_1,4-Dichlorobenzen...	6.610	152	16238	4.000	ug/ml		0.00
	Standard Area 1 = 17818			Recovery =	91.13%			
86)	IS3_Acenaphthene-d10	9.780	164	32558	4.000	ug/ml		0.00
	Standard Area 1 = 37262			Recovery =	87.38%			
100)	IS3_Phenanthrene-d10	11.222	188	66817	4.000	ug/ml	#	0.00
	Standard Area 1 = 75179			Recovery =	88.88%			
	System Monitoring Compounds							
	Target Compounds							Qvalue
33)	1,4-Dioxane	2.046	88	43666	23.414	ug/ml	#	82
34)	n-Decane	6.492	57	142280	25.243	ug/ml	#	52
87)	Atrazine	10.986	200	78499	30.654	ug/ml		96
101)	n-Octadecane	11.186	57	181508	28.496	ug/ml	#	1
102)	Parathion	12.010	109	45554	25.662	ug/ml		96
103)	3,3'-Dimethylbenzidine	13.316	212	334112	23.430	ug/ml		98

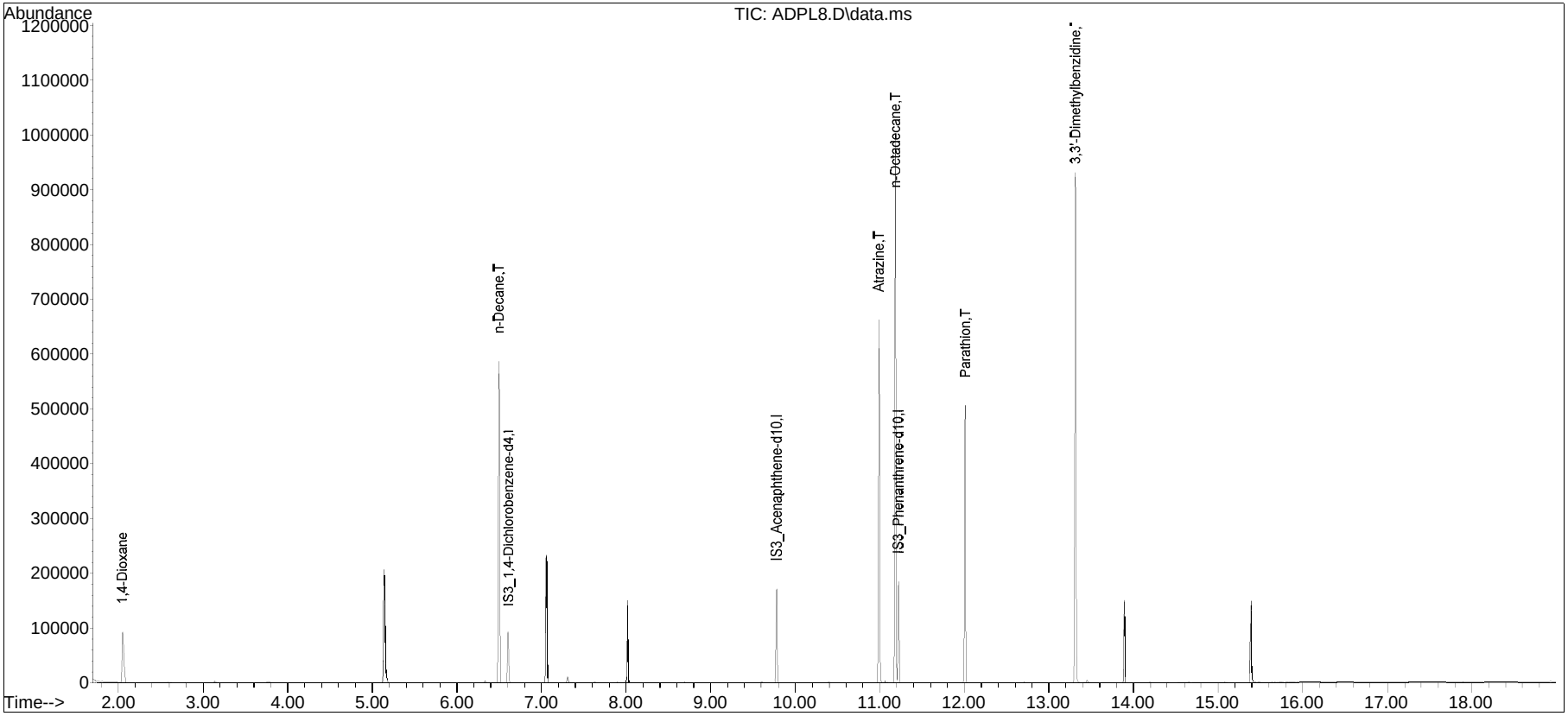
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ADPL8.D
Acq On : 31 Jul 2024 4:45 am
Operator : SV107:cmm
Sample : IL3,32,,ADPL25 Lot# 10797
Misc : WG1954578,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 02 09:02:42 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 07:58:43 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL6.D•



FS240730SV107RVT.m Fri Aug 02 09:04:52 2024 Page: 2

Manual Integration Report

Data Path	: I:\8270\SV107\240730ical\	QMethod	: FS240730SV107RVT.m
Data File	: ADPL8.D	Operator	: SV107:cmm
Date Inj'd	: 7/31/2024 4:45 am	Instrument	: SV107
Sample	: IL3,32,,ADPL25 Lot# 10797	Quant Date	: 8/2/2024 9:03 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ADPL7.D
Acq On : 31 Jul 2024 5:10 am
Operator : SV107:cmm
Sample : IL4,32,,ADPL10 Lot# 10798
Misc : WG1954578,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 02 09:02:33 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 07:58:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
	Internal Standards						
32)	IS3_1,4-Dichlorobenzen...	6.610	152	15789	4.000	ug/ml	0.00
	Standard Area 1 = 17818			Recovery =	88.61%		
86)	IS3_Acenaphthene-d10	9.781	164	33444	4.000	ug/ml	0.00
	Standard Area 1 = 37262			Recovery =	89.75%		
100)	IS3_Phenanthrene-d10	11.222	188	68855	4.000	ug/ml	0.00
	Standard Area 1 = 75179			Recovery =	91.59%		
	System Monitoring Compounds						
	Target Compounds						Qvalue
33)	1,4-Dioxane	2.052	88	18456	10.178	ug/ml#	80
34)	n-Decane	6.492	57	56248	10.263	ug/ml#	53
87)	Atrazine	10.986	200	30891	11.743	ug/ml	96
101)	n-Octadecane	11.186	57	72629	11.065	ug/ml#	1
102)	Parathion	12.004	109	15668	10.449	ug/ml	99
103)	3,3'-Dimethylbenzidine	13.310	212	130313	9.445	ug/ml	98

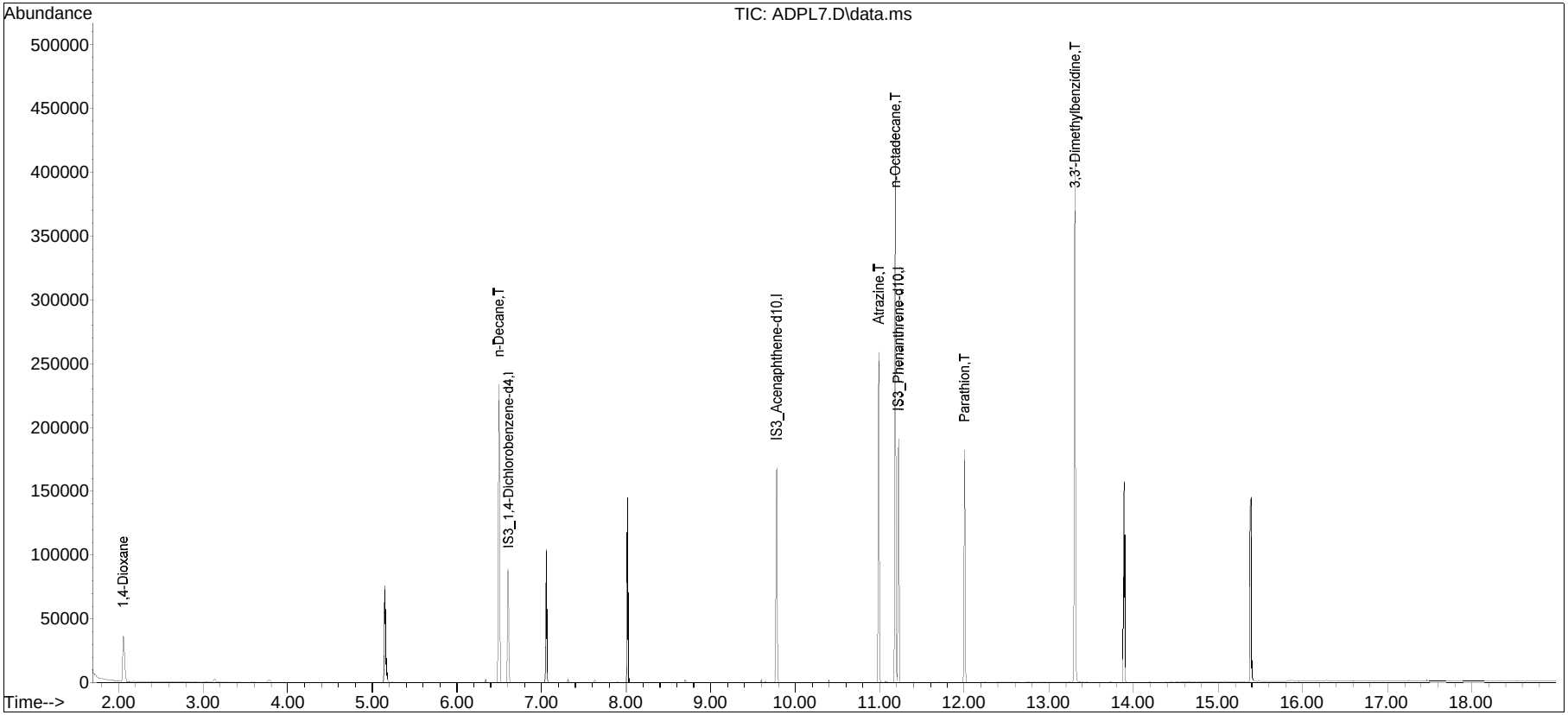
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ADPL7.D
Acq On : 31 Jul 2024 5:10 am
Operator : SV107:cmm
Sample : IL4,32,,ADPL10 Lot# 10798
Misc : WG1954578,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 02 09:02:33 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 07:58:43 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240730ical\	QMethod	: FS240730SV107RVT.m
Data File	: ADPL7.D	Operator	: SV107:cmm
Date Inj'd	: 7/31/2024 5:10 am	Instrument	: SV107
Sample	: IL4,32,,ADPL10 Lot# 10798	Quant Date	: 8/2/2024 9:03 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ADPL6.D
Acq On : 31 Jul 2024 5:35 am
Operator : SV107:cmm
Sample : IL5,32,,ADPL5 Lot# 10799
Misc : WG1954578,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Aug 02 09:02:24 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 07:58:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.610	152	17818	4.000	ug/ml	0.00
Standard Area 1 = 17818			Recovery =	100.00%		
86) IS3_Acenaphthene-d10	9.780	164	37262	4.000	ug/ml	0.00
Standard Area 1 = 37262			Recovery =	100.00%		
100) IS3_Phenanthrene-d10	11.222	188	75179	4.000	ug/ml	# 0.00
Standard Area 1 = 75179			Recovery =	100.00%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	2.069	88	8930	4.364	ug/ml#	81
34) n-Decane	6.492	57	28128	4.548	ug/ml#	52
87) Atrazine	10.980	200	14656	5.001	ug/ml	94
101) n-Octadecane	11.186	57	35197	4.911	ug/ml#	1
102) Parathion	12.004	109	6199	4.301	ug/ml	97
103) 3,3'-Dimethylbenzidine	13.310	212	50809	3.970	ug/ml	98

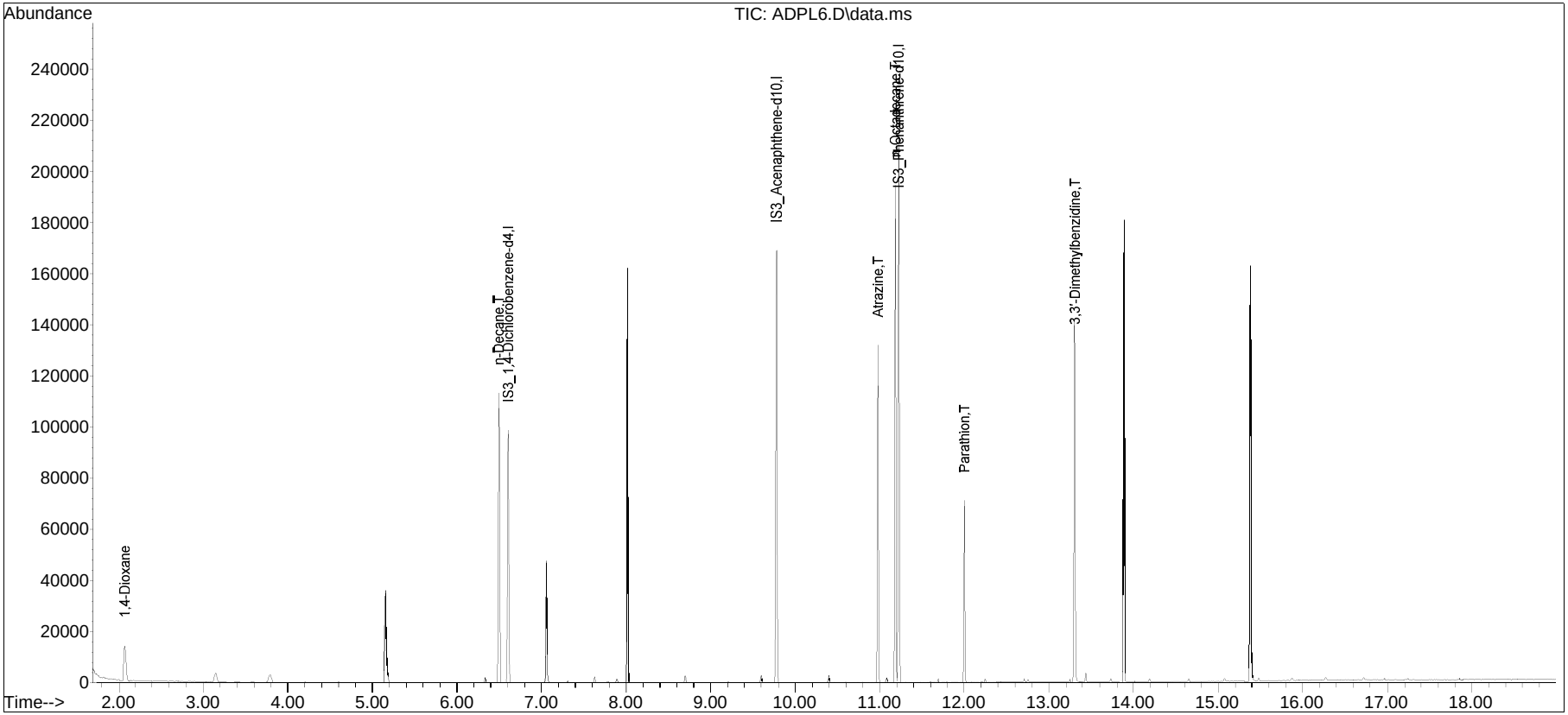
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ADPL6.D
Acq On : 31 Jul 2024 5:35 am
Operator : SV107:cmm
Sample : IL5,32,,ADPL5 Lot# 10799
Misc : WG1954578,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Aug 02 09:02:24 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 07:58:43 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240730ical\	QMethod	: FS240730SV107RVT.m
Data File	: ADPL6.D	Operator	: SV107:cmm
Date Inj'd	: 7/31/2024 5:35 am	Instrument	: SV107
Sample	: IL5,32,,ADPL5 Lot# 10799	Quant Date	: 8/2/2024 9:03 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ADPL5.D
Acq On : 31 Jul 2024 6:01 am
Operator : SV107:cmm
Sample : IL6,32,,ADPL2.5 Lot# 10800
Misc : WG1954578,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Aug 02 09:02:14 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 07:58:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.604	152	18057	4.000	ug/ml	0.00
Standard Area 1 = 17818			Recovery =	101.34%		
86) IS3_Acenaphthene-d10	9.780	164	36504	4.000	ug/ml	0.00
Standard Area 1 = 37262			Recovery =	97.97%		
100) IS3_Phenanthrene-d10	11.221	188	74555	4.000	ug/ml	0.00
Standard Area 1 = 75179			Recovery =	99.17%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	2.051	88	4937	2.381	ug/ml#	82
34) n-Decane	6.492	57	15485	2.471	ug/ml#	52
87) Atrazine	10.980	200	6996	2.437	ug/ml	94
101) n-Octadecane	11.186	57	17942	2.524	ug/ml#	1
102) Parathion	12.004	109	2608	2.055	ug/ml	94
103) 3,3'-Dimethylbenzidine	13.310	212	22376	2.279	ug/ml	99

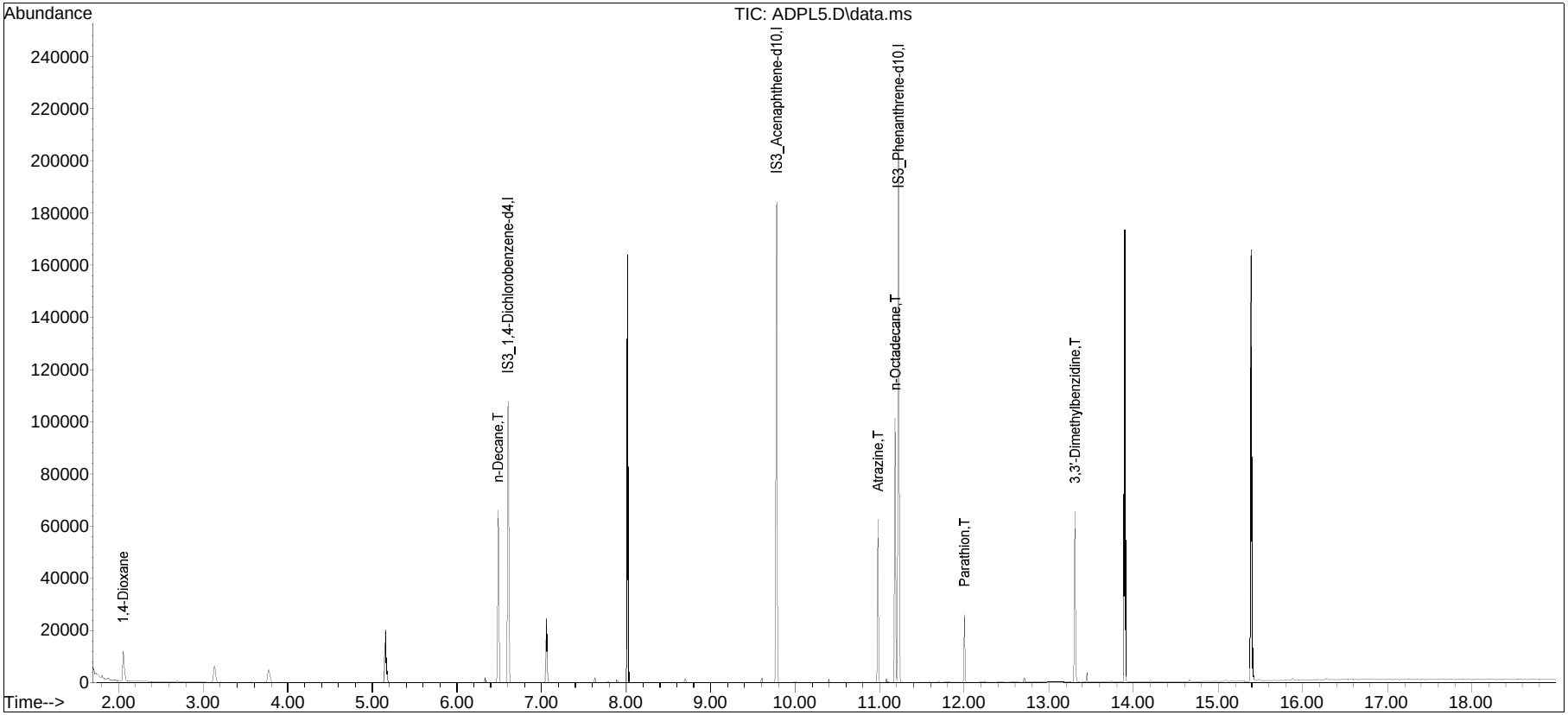
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ADPL5.D
Acq On : 31 Jul 2024 6:01 am
Operator : SV107:cmm
Sample : IL6,32,,ADPL2.5 Lot# 10800
Misc : WG1954578,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Aug 02 09:02:14 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 07:58:43 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240730ical\	QMethod	: FS240730SV107RVT.m
Data File	: ADPL5.D	Operator	: SV107:cmm
Date Inj'd	: 7/31/2024 6:01 am	Instrument	: SV107
Sample	: IL6,32,,ADPL2.5 Lot# 10800	Quant Date	: 8/2/2024 9:03 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ADPL4.D
Acq On : 31 Jul 2024 6:26 am
Operator : SV107:cmm
Sample : IL7,32,,ADPL1 Lot# 10801
Misc : WG1954578,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 02 09:02:04 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 07:58:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
	Internal Standards						
32)	IS3_1,4-Dichlorobenzen...	6.604	152	15036	4.000	ug/ml	0.00
	Standard Area 1 = 17818			Recovery =	84.39%		
86)	IS3_Acenaphthene-d10	9.781	164	31128	4.000	ug/ml	0.00
	Standard Area 1 = 37262			Recovery =	83.54%		
100)	IS3_Phenanthrene-d10	11.222	188	59889	4.000	ug/ml	0.00
	Standard Area 1 = 75179			Recovery =	79.66%		
	System Monitoring Compounds						
	Target Compounds						Qvalue
33)	1,4-Dioxane	2.052	88	1960	1.135	ug/ml#	87
34)	n-Decane	6.493	57	5545	1.062	ug/ml#	52
87)	Atrazine	10.980	200	2280	0.931	ug/ml	89
101)	n-Octadecane	11.186	57	5662	0.992	ug/ml#	1
102)	Parathion	12.004	109	787	0.972	ug/ml#	77
103)	3,3'-Dimethylbenzidine	13.304	212	5645	1.352	ug/ml	100

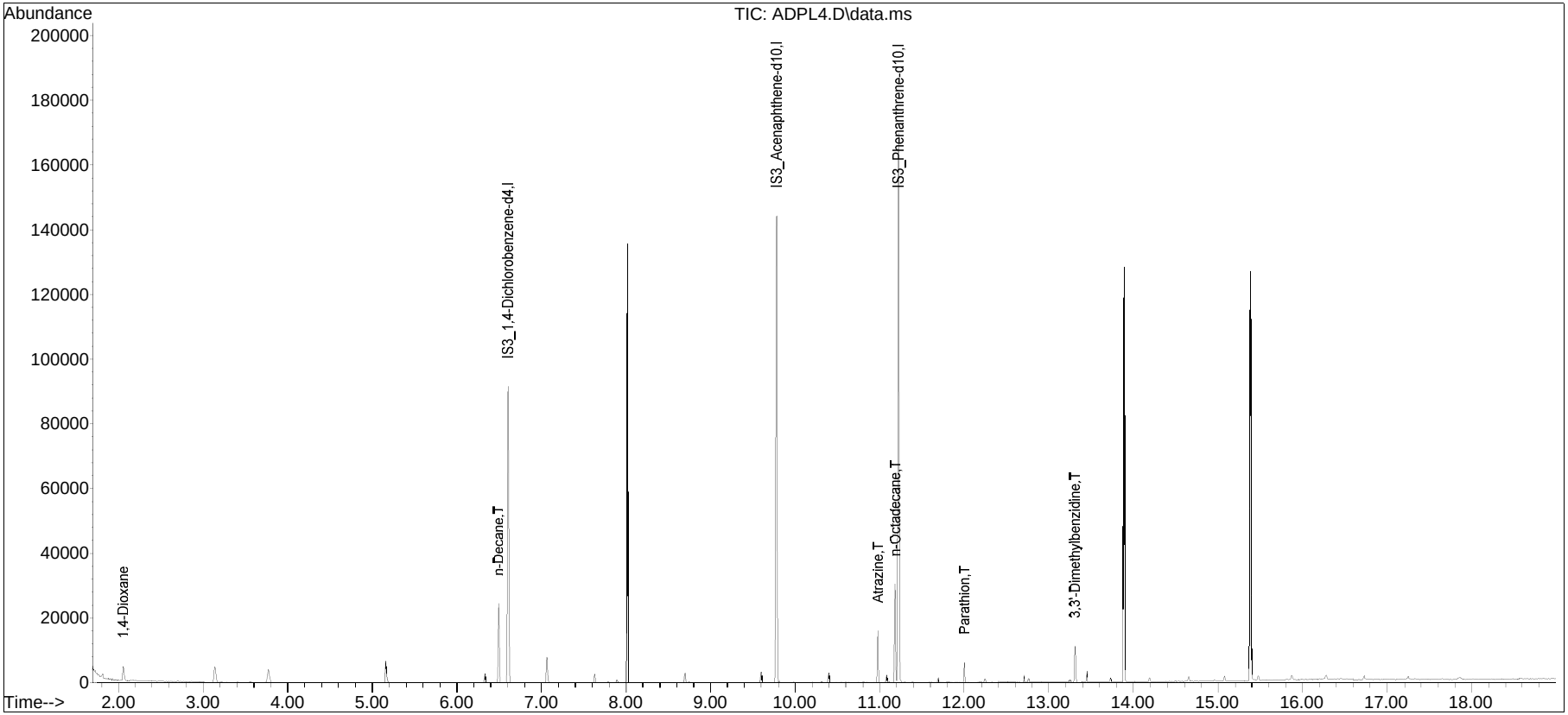
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ADPL4.D
Acq On : 31 Jul 2024 6:26 am
Operator : SV107:cmm
Sample : IL7,32,,ADPL1 Lot# 10801
Misc : WG1954578,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 02 09:02:04 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 07:58:43 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240730ical\	QMethod	: FS240730SV107RVT.m
Data File	: ADPL4.D	Operator	: SV107:cmm
Date Inj'd	: 7/31/2024 6:26 am	Instrument	: SV107
Sample	: IL7,32,,ADPL1 Lot# 10801	Quant Date	: 8/2/2024 9:03 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ADPL3.D
Acq On : 31 Jul 2024 6:52 am
Operator : SV107:cmm
Sample : IL8,32,,ADPL0.5 Lot# 10802
Misc : WG1954578,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 02 09:01:54 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 07:58:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
	Internal Standards							
32)	IS3_1,4-Dichlorobenzen...	6.610	152	17230	4.000	ug/ml		0.00
	Standard Area 1 = 17818			Recovery =	96.70%			
86)	IS3_Acenaphthene-d10	9.780	164	37558	4.000	ug/ml		0.00
	Standard Area 1 = 37262			Recovery =	100.79%			
100)	IS3_Phenanthrene-d10	11.222	188	76707	4.000	ug/ml	#	0.00
	Standard Area 1 = 75179			Recovery =	102.03%			
	System Monitoring Compounds							
	Target Compounds							Qvalue
33)	1,4-Dioxane	2.069	88	1048	0.530	ug/ml	#	77
34)	n-Decane	6.492	57	2975	0.497	ug/ml	#	50
87)	Atrazine	10.980	200	1331	0.451	ug/ml	#	72
101)	n-Octadecane	11.186	57	3510	0.480	ug/ml	#	1
102)	Parathion	12.004	109	505	0.640	ug/ml	#	80
103)	3,3'-Dimethylbenzidine	13.304	212	3321	1.123	ug/ml		99

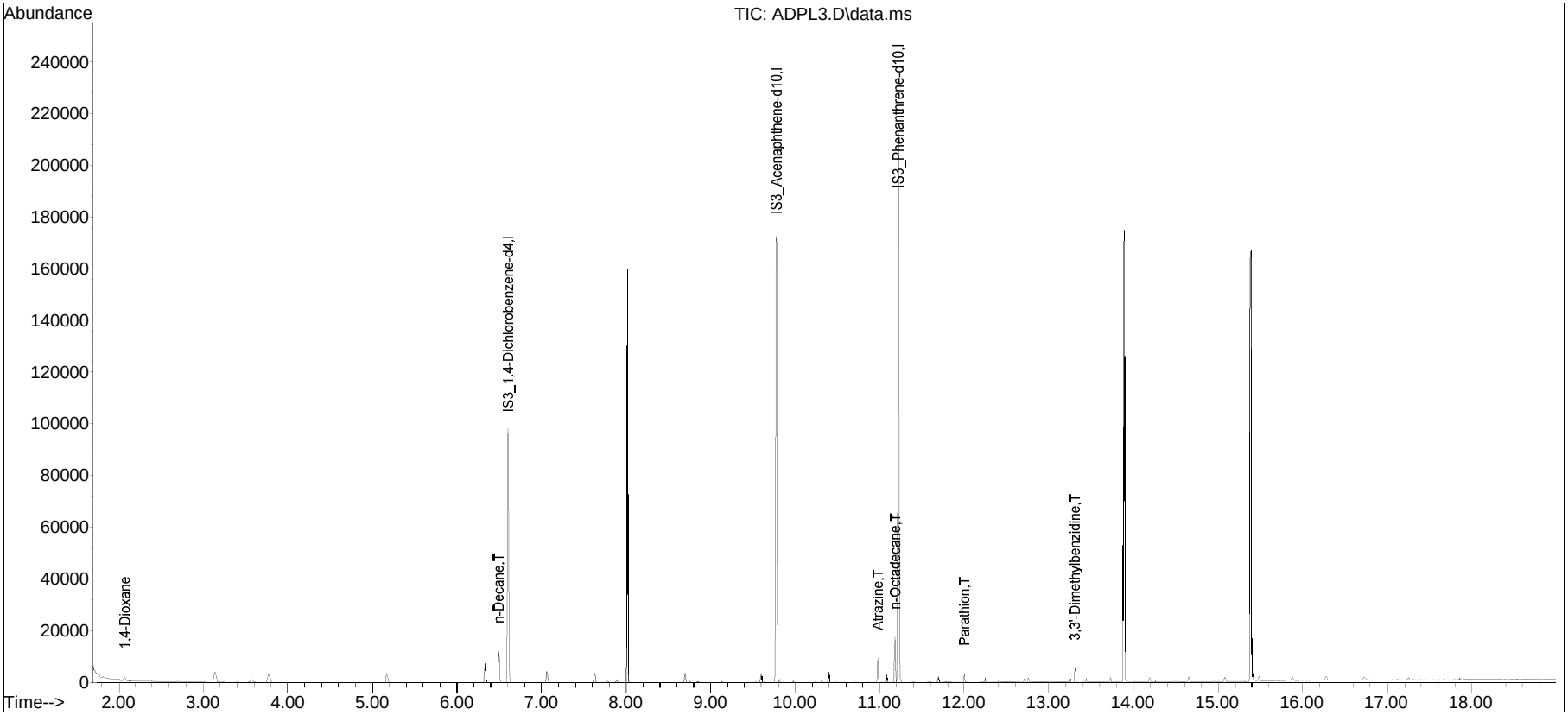
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ADPL3.D
Acq On : 31 Jul 2024 6:52 am
Operator : SV107:cmm
Sample : IL8,32,,ADPL0.5 Lot# 10802
Misc : WG1954578,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 02 09:01:54 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 07:58:43 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240730ical\	QMethod	: FS240730SV107RVT.m
Data File	: ADPL3.D	Operator	: SV107:cmm
Date Inj'd	: 7/31/2024 6:52 am	Instrument	: SV107
Sample	: IL8,32,,ADPL0.5 Lot# 10802	Quant Date	: 8/2/2024 9:03 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ADPL2.D
Acq On : 31 Jul 2024 7:17 am
Operator : SV107:cmm
Sample : IL9,32,,ADPL0.2 Lot# 10803
Misc : WG1954578,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Aug 02 09:01:45 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 07:58:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
	Internal Standards						
32)	IS3_1,4-Dichlorobenzen...	6.604	152	19461	4.000	ug/ml	0.00
	Standard Area 1 = 17818			Recovery =	109.22%		
86)	IS3_Acenaphthene-d10	9.780	164	41883	4.000	ug/ml	0.00
	Standard Area 1 = 37262			Recovery =	112.40%		
100)	IS3_Phenanthrene-d10	11.222	188	82235	4.000	ug/ml	0.00
	Standard Area 1 = 75179			Recovery =	109.39%		
	System Monitoring Compounds						
	Target Compounds						Qvalue
33)	1,4-Dioxane	2.057	88	472	0.211	ug/ml#	31
34)	n-Decane	6.492	57	1327	0.196	ug/ml#	56
87)	Atrazine	10.980	200	522	0.158	ug/ml#	33
101)	n-Octadecane	11.186	57	1293	0.165	ug/ml#	1
102)	Parathion	0.000		0	N.D.	d	
103)	3,3'-Dimethylbenzidine	13.310	212	1131	0.990	ug/ml#	62

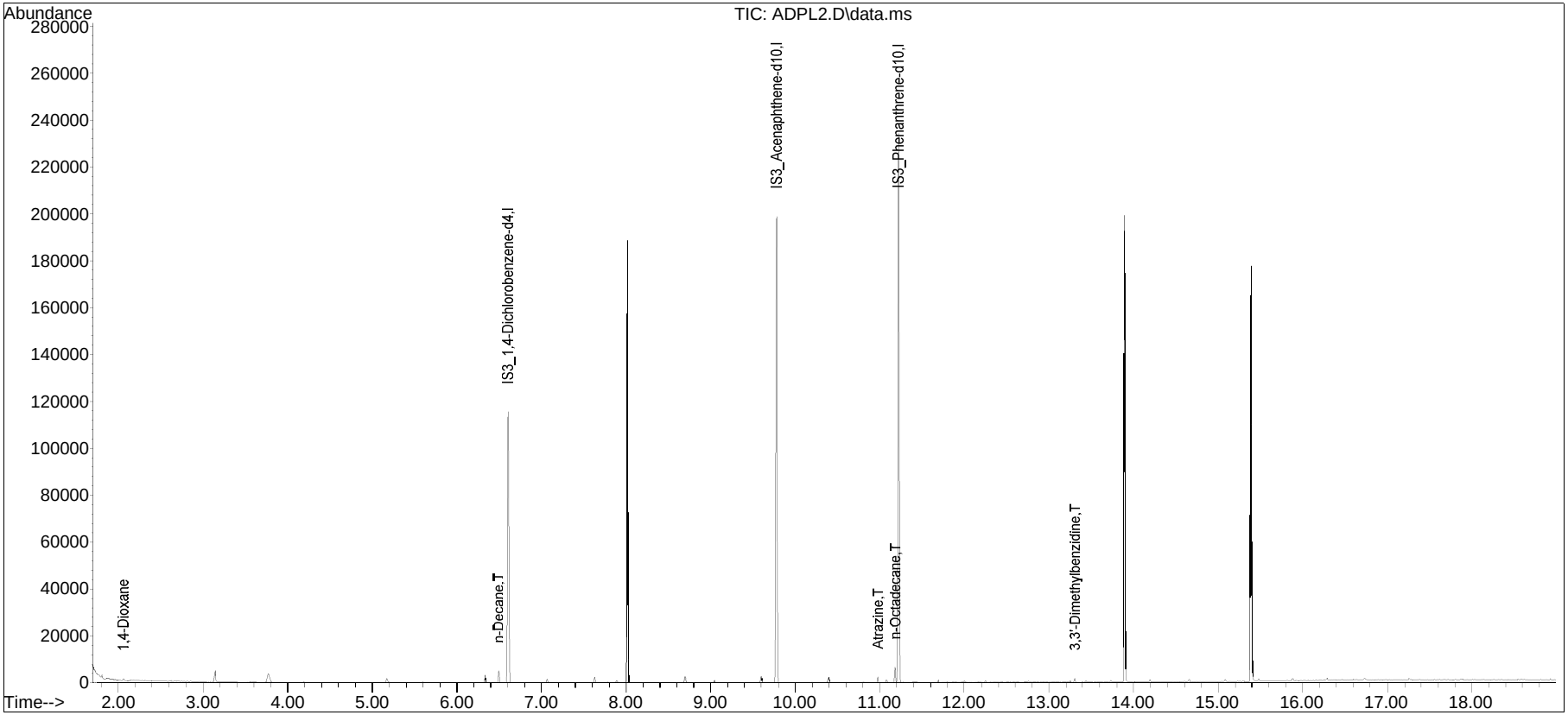
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ADPL2.D
Acq On : 31 Jul 2024 7:17 am
Operator : SV107:cmm
Sample : IL9,32,,ADPL0.2 Lot# 10803
Misc : WG1954578,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Aug 02 09:01:45 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 07:58:43 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240730ical\	QMethod	: FS240730SV107RVT.m
Data File	: ADPL2.D	Operator	: SV107:cmm
Date Inj'd	: 7/31/2024 7:17 am	Instrument	: SV107
Sample	: IL9,32,,ADPL0.2 Lot# 10803	Quant Date	: 8/2/2024 9:03 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ADPL1.D
Acq On : 31 Jul 2024 7:43 am
Operator : SV107:cmm
Sample : IL10,32,,ADPL0.1 Lot# 10804
Misc : WG1954578,,
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 02 09:01:35 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 07:58:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

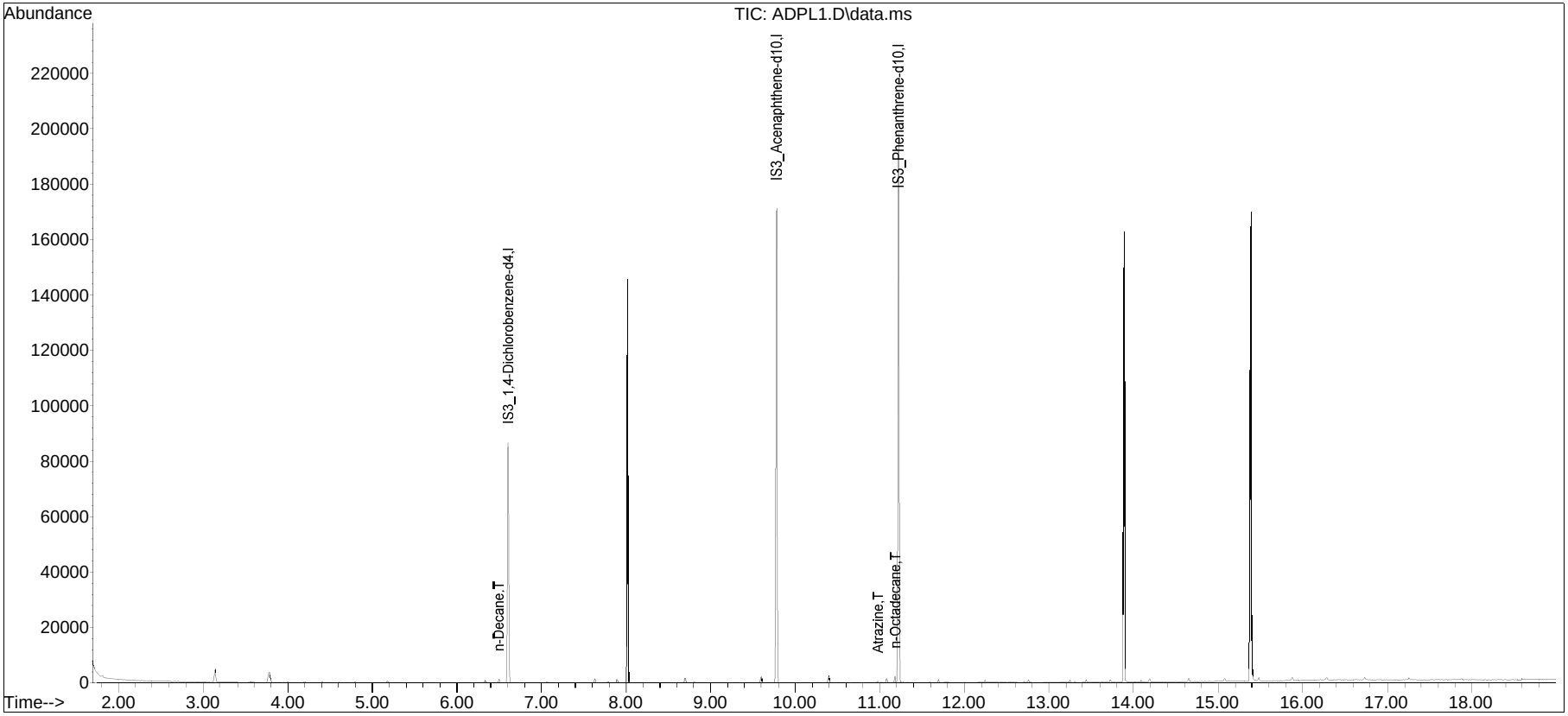
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.610	152	15942	4.000	ug/ml	0.00
Standard Area 1 = 17818			Recovery = 89.47%			
86) IS3_Acenaphthene-d10	9.780	164	34890	4.000	ug/ml	0.00
Standard Area 1 = 37262			Recovery = 93.63%			
100) IS3_Phenanthrene-d10	11.221	188	70148	4.000	ug/ml	0.00
Standard Area 1 = 75179			Recovery = 93.31%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	0.000		0	N.D.		
34) n-Decane	6.492	57	520	0.094	ug/ml#	65
87) Atrazine	10.980	200	239M2	0.087	ug/ml	
101) n-Octadecane	11.186	57	501	0.075	ug/ml#	71
102) Parathion	0.000		0	N.D.		
103) 3,3'-Dimethylbenzidine	0.000		0	N.D.	d	

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

Data Path : I:\8270\SV107\240730ical\
Data File : ADPL1.D
Acq On : 31 Jul 2024 7:43 am
Operator : SV107:cmm
Sample : IL10,32,,ADPL0.1 Lot# 10804
Misc : WG1954578,,
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 02 09:01:35 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 07:58:43 2024
Response via : Initial Calibration

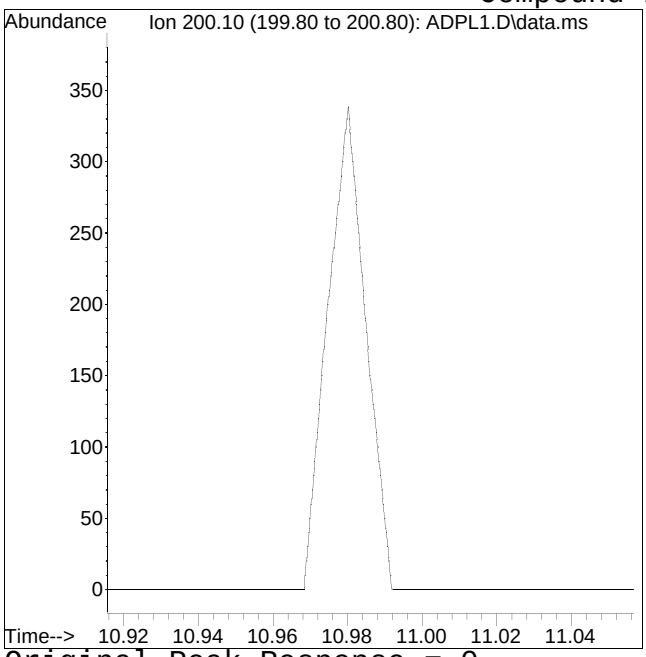
Sub List : ADPical_REV2 - ADP sublistal\ADPL6.D•



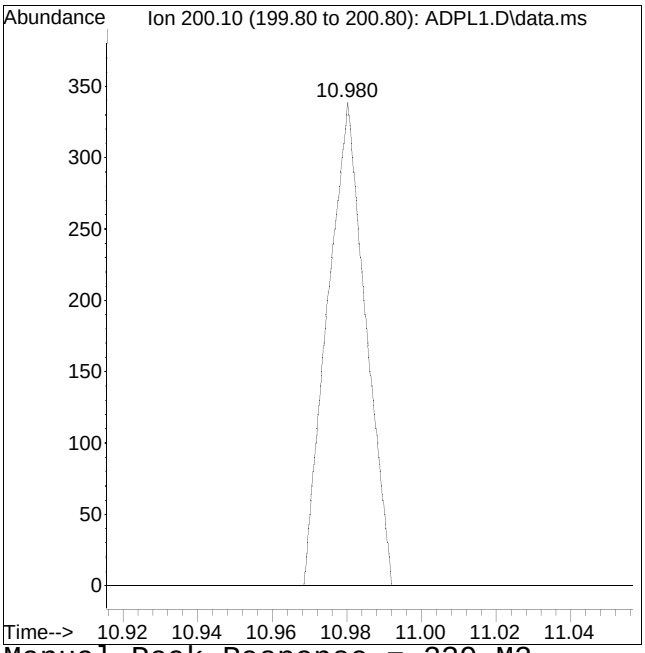
Manual Integration Report

Data Path : I:\8270\SV107\240730ical\ QMethod : FS240730SV107RVT.m
Data File : ADPL1.D Operator : SV107:cmm
Date Inj'd : 7/31/2024 7:43 am Instrument : SV107
Sample : IL10,32,,ADPL0.1 Lot# 1080 Quant Date : 8/2/2024 9:02 am

Compound #87: Atrazine



Original Peak Response = 0



Manual Peak Response = 239 M2

M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240730ical\
Data File : ADPICV.D
Acq On : 31 Jul 2024 8:08 am
Operator : SV107:cmm
Sample : CQICV3,32,,ADPICV Lot# 10807
Misc : WG1954578,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Aug 02 07:59:29 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 07:58:43 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	75	0.00
33		1,4-Dioxane		0.459	0.441	3.9	82	-0.01
34	T	n-Decane		1.388	1.370	1.3	81	0.00
86	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	79	0.00
87	T	Atrazine		0.315	0.303	3.8	76	0.00
100	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	86	0.00
101	T	n-Octadecane		0.381	0.390	-2.4	90	0.00
102	T	Parathion	*	5.000	3.843	23.1#	76	0.00
103	T	3,3'-Dimethylbenzidine	*	5.000	3.537	29.3#	74	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\SV107\240730ical\
Data File : ADPICV.D
Acq On : 31 Jul 2024 8:08 am
Operator : SV107:cmm
Sample : CQICV3,32,,ADPICV Lot# 10807
Misc : WG1954578,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Aug 02 07:59:29 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 07:58:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240730ical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.604	152	13335	4.000	ug/ml	0.00
Standard Area 1 = 17818			Recovery =	74.84%		
86) IS3_Acenaphthene-d10	9.780	164	29584	4.000	ug/ml	0.00
Standard Area 1 = 37262			Recovery =	79.39%		
100) IS3_Phenanthrene-d10	11.221	188	64693	4.000	ug/ml	# 0.00
Standard Area 1 = 75179			Recovery =	86.05%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	2.057	88	7358	4.804	ug/ml#	82
34) n-Decane	6.492	57	22829	4.932	ug/ml#	52
87) Atrazine	10.980	200	11210	4.818	ug/ml	95
101) n-Octadecane	11.186	57	31573	5.120	ug/ml#	1
102) Parathion	12.004	109	4692	3.843	ug/ml	95
103) 3,3'-Dimethylbenzidine	13.310	212	37505	3.537	ug/ml	97

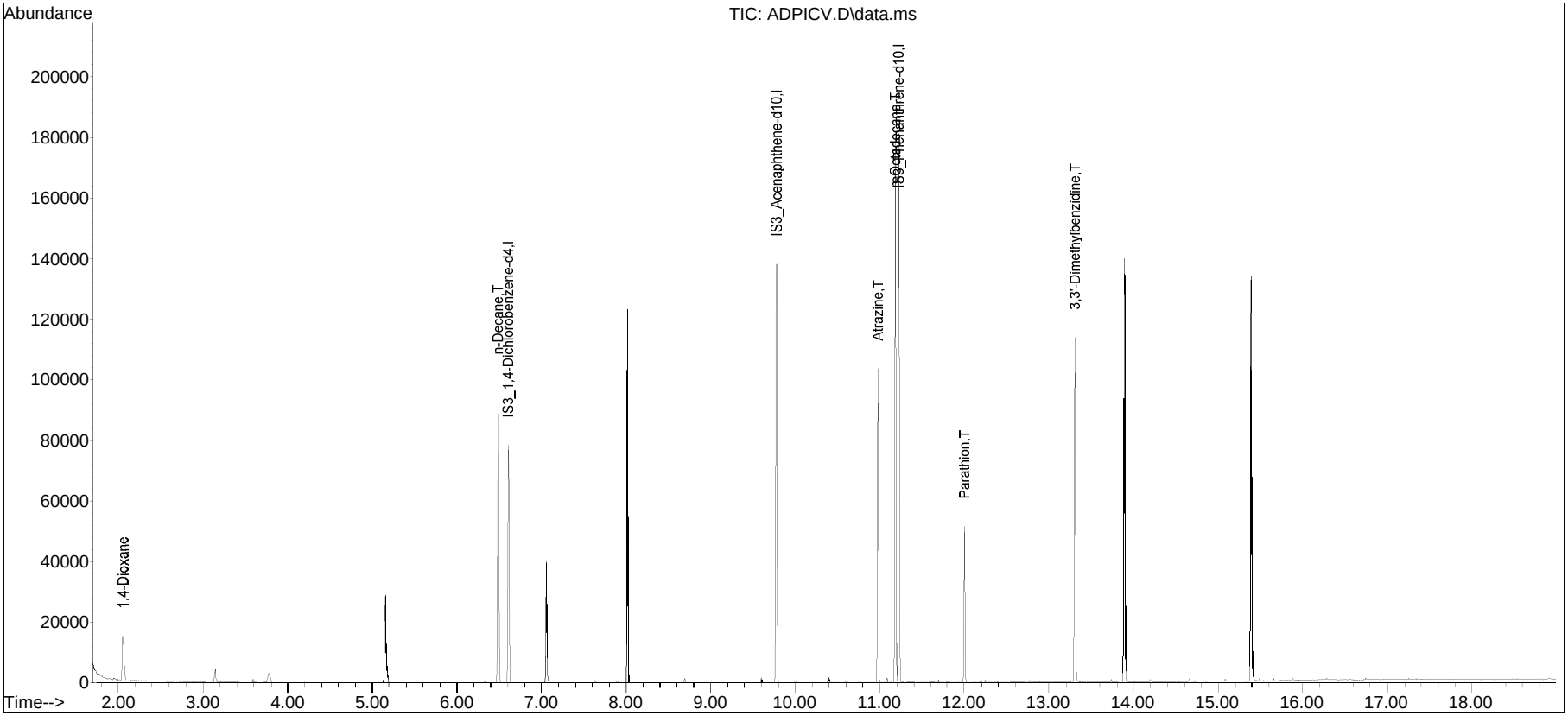
(#) = qualifier out of range (m) = manual integration (+) = signals summed

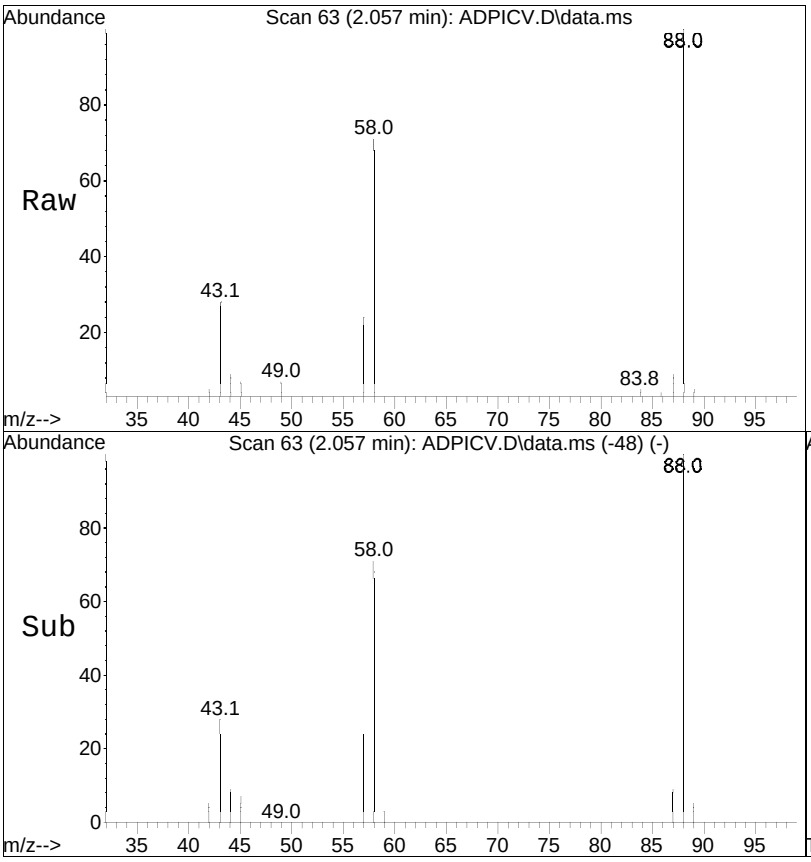
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240730ical\
Data File : ADPICV.D
Acq On : 31 Jul 2024 8:08 am
Operator : SV107:cmm
Sample : CQICV3,32,,ADPICV Lot# 10807
Misc : WG1954578,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Aug 02 07:59:29 2024
Quant Method : I:\8270\SV107\240730ical\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Aug 02 07:58:43 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL6.D•

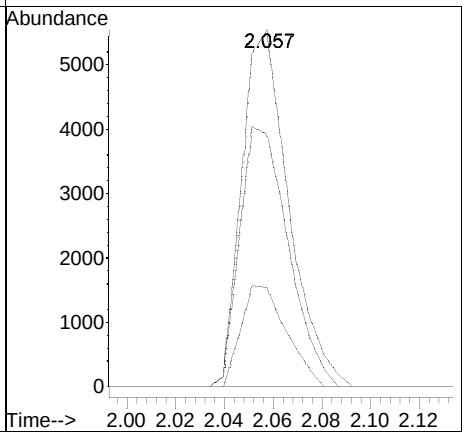


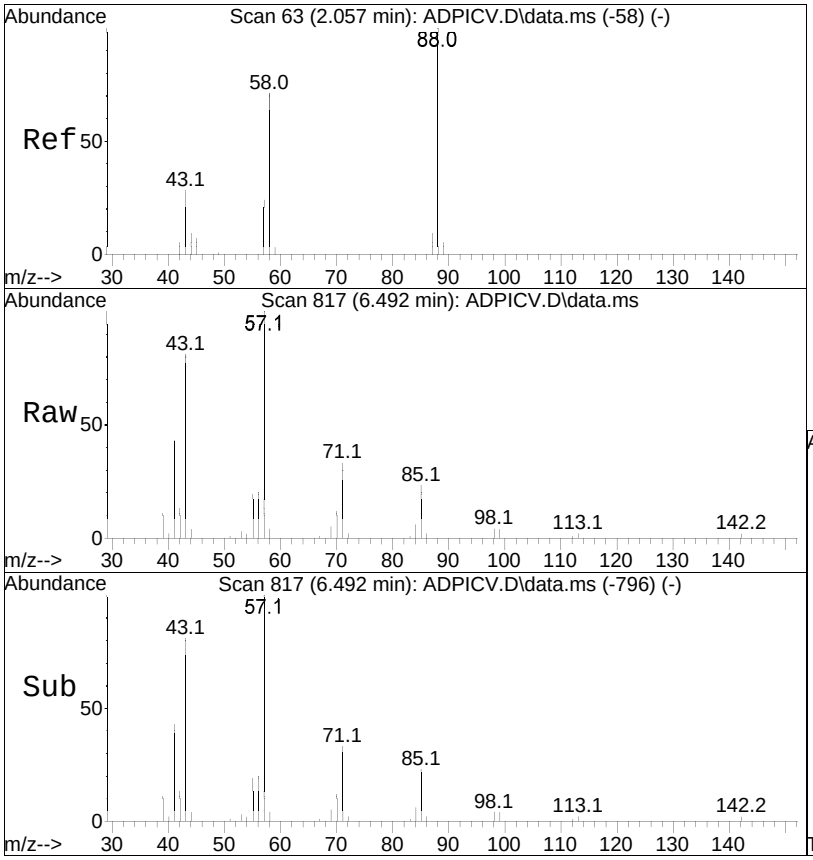


#33
1,4-Dioxane
Concen: 4.80 ug/ml
RT: 2.057 min Scan# 63
Delta R.T. -0.012 min
Lab File: ADPICV.D
Acq: 31 Jul 2024 8:08 am

Tgt Ion: 88 Resp: 7358

Ion	Ratio	Lower	Upper
88	100		
58	75.2	44.8	67.2#
43	27.5	22.4	33.6

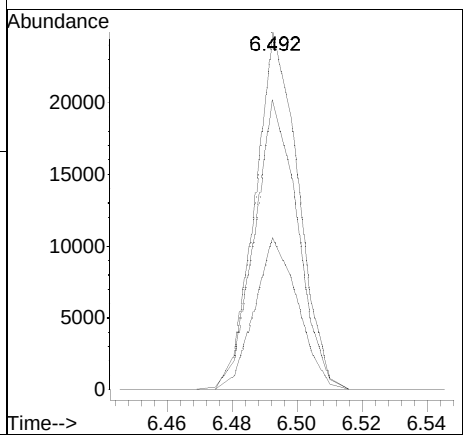


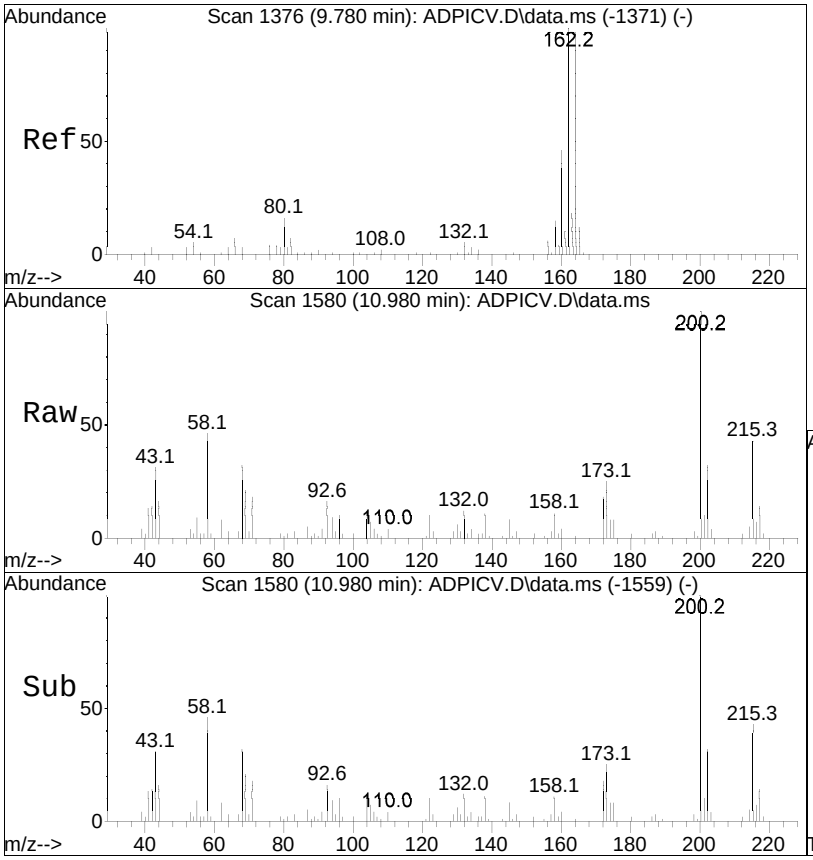


#34
n-Decane
Concen: 4.93 ug/ml
RT: 6.492 min Scan# 817
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 31 Jul 2024 8:08 am

Tgt Ion: 57 Resp: 22829

Ion	Ratio	Lower	Upper
57	100		
43	81.3	0.2	0.2#
41	42.7	0.2	0.2#

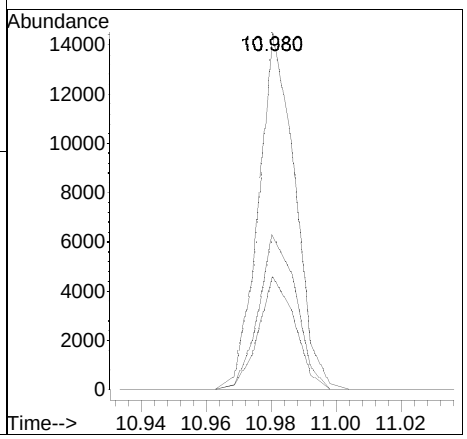


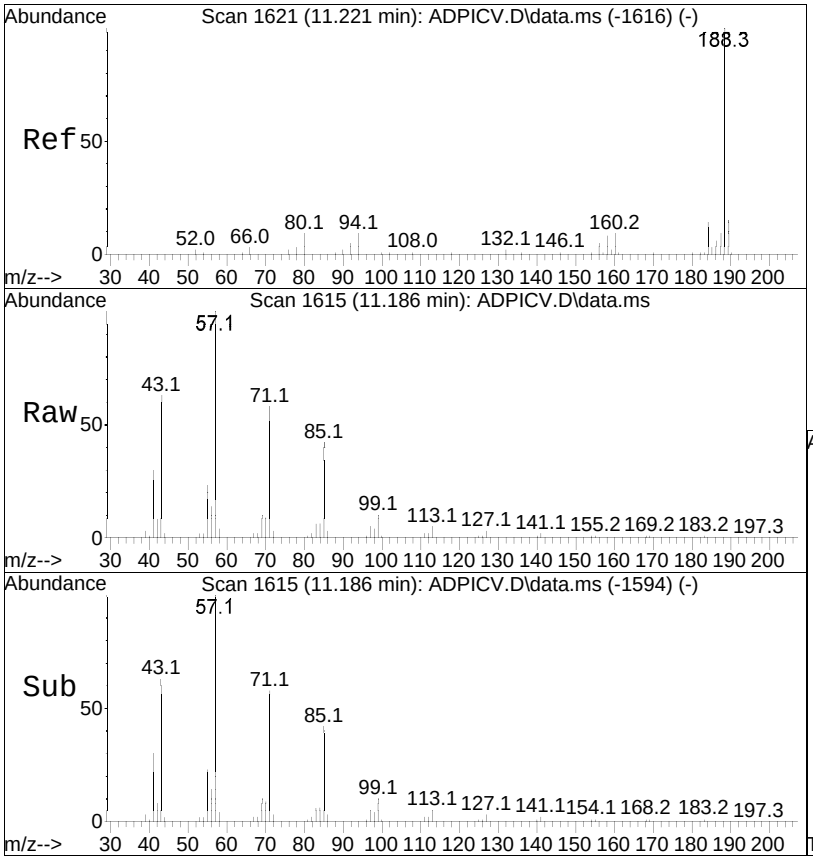


#87
Atrazine
Concen: 4.82 ug/ml
RT: 10.980 min Scan# 1580
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 31 Jul 2024 8:08 am

Tgt Ion:200 Resp: 11210

Ion	Ratio	Lower	Upper
200	100		
202	31.8	25.8	38.6
215	44.5	40.2	60.4

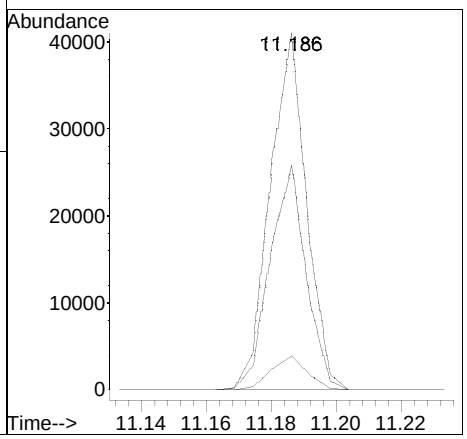


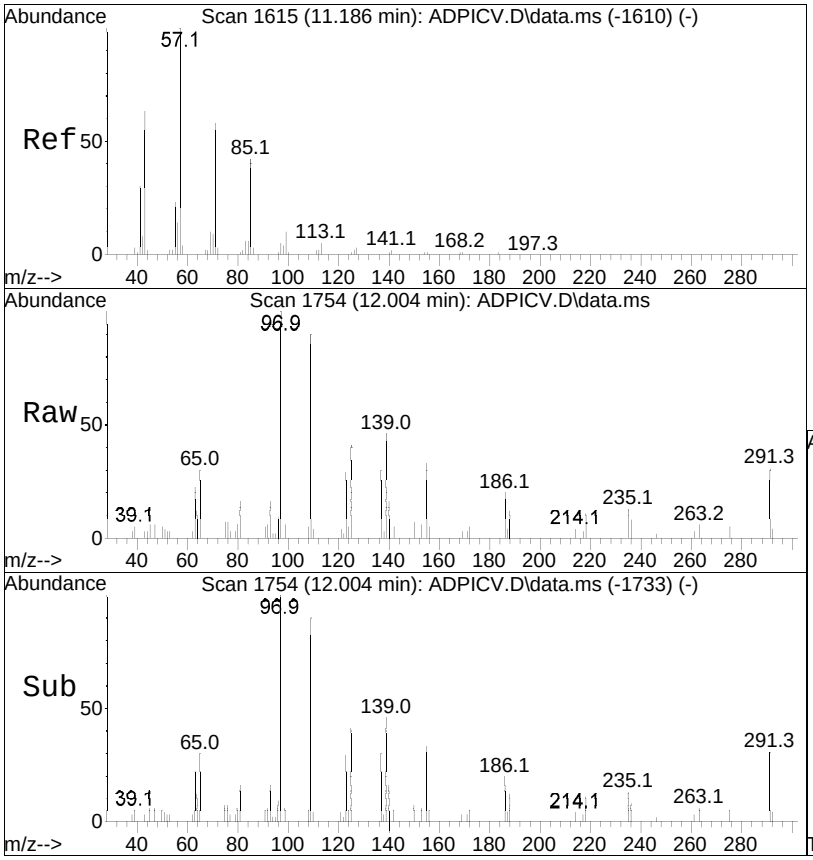


#101
n-Octadecane
Concen: 5.12 ug/ml
RT: 11.186 min Scan# 1615
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 31 Jul 2024 8:08 am

Tgt Ion: 57 Resp: 31573

Ion	Ratio	Lower	Upper
57	100		
43	62.7	9.0	13.6#
70	9.5	0.2	0.2#

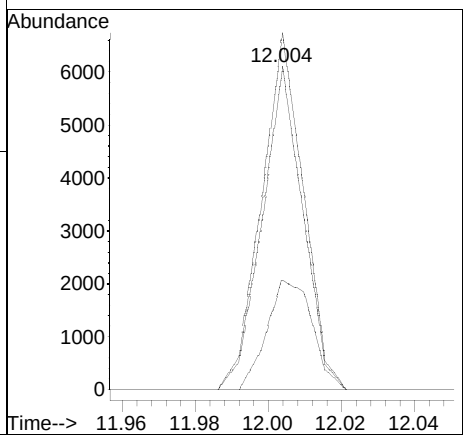


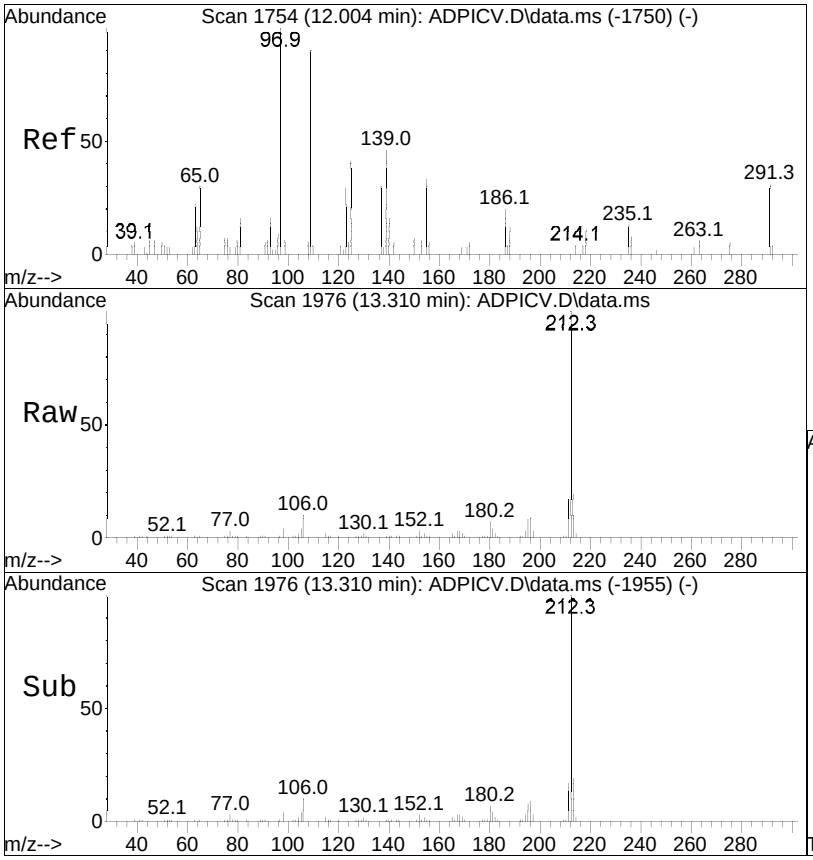


#102
Parathion
Concen: 3.84 ug/ml
RT: 12.004 min Scan# 1754
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 31 Jul 2024 8:08 am

Tgt Ion:109 Resp: 4692

Ion	Ratio	Lower	Upper
109	100		
97	113.2	87.4	131.2
291	37.8	34.2	51.2

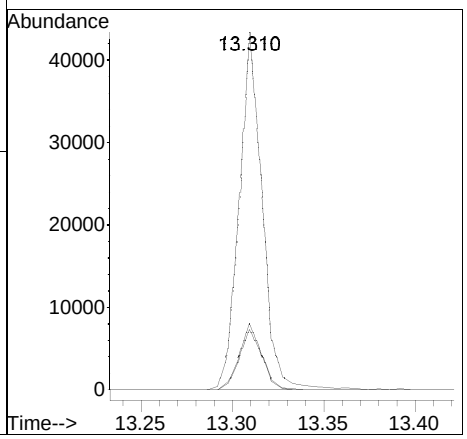




#103
3,3'-Dimethylbenzidine
Concen: 3.54 ug/ml
RT: 13.310 min Scan# 1976
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 31 Jul 2024 8:08 am

Tgt Ion:212 Resp: 37505

Ion	Ratio	Lower	Upper
212	100		
211	16.7	12.9	19.3
213	18.3	13.2	19.8



Manual Integration Report

Data Path	: I:\8270\SV107\240730ical\	QMethod	: FS240730SV107RVT.m
Data File	: ADPICV.D	Operator	: SV107:cmm
Date Inj'd	: 7/31/2024 8:08 am	Instrument	: SV107
Sample	: CQICV3,32,,ADPICV Lot# 108	Quant Date	: 8/2/2024 8:00 am

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

Evaluate Relative Error Report SV107

Method Path : I:\8270\SV107\240730ical\
Method File : FS240730SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Aug 02 07:49:58 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
37	T Benzoic Acid	L	ug/ml	5.0	4.582	-8.4	2.50	2.786	11.4
60	T Caprolactam	L	ug/ml	5.0	4.511	-9.8	1.00	1.143	14.3
66	T 2,4-Dinitrophenol	L	ug/ml	5.0	3.900	-22.0	1.00	1.321	32.1
76	T 4,6-Dinitro-o-cresol	L	ug/ml	5.0	3.819	-23.6	0.50	0.696	39.2
82	T Pentachlorophenol	L	ug/ml	5.0	4.112	-17.8	1.00	1.238	23.8
84	T Dichloran	L	ug/ml	5.0	4.091	-18.2	1.00	1.319	31.9
85	T Pentachloronitrobenzene	L	ug/ml	5.0	4.313	-13.7	1.00	1.206	20.6
94	T Benzidine	L	ug/ml	5.0	3.786	-24.3	1.00	1.298	29.8
97	T Butyl benzyl phthalate	L	ug/ml	5.0	3.525	-29.5	0.50	0.732	46.4
102	T Parathion	Q	ug/ml	5.0	4.301	-14.0	0.50	0.640	28.0
103	T 3,3'-Dimethylbenzidine	L	ug/ml	5.0	3.970	-20.6	1.00	1.352	35.2
106	T 3,3'-Dichlorobenzidine	L	ug/ml	5.0	4.067	-18.7	0.20	0.297	48.5
108	T Bis(2-ethylhexyl)phthalate	Q	ug/ml	5.0	4.280	-14.4	0.20	0.274	37.0
109	T Di-n-octylphthalate	L	ug/ml	5.0	3.766	-24.7	0.50	0.711	42.2

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
37	T Benzoic Acid	Linear	0.997859	0.000000	0.274096	-0.103009
60	T Caprolactam	Linear	0.998828	0.000000	0.192914	-0.0287801
66	T 2,4-Dinitrophenol	Linear	0.994026	0.000000	0.226975	-0.0539229
76	T 4,6-Dinitro-o-cresol	Linear	0.993855	0.000000	0.278609	-0.0348367
82	T Pentachlorophenol	Linear	0.995977	0.000000	0.33955	-0.0570211
84	T Dichloran	Linear	0.994761	0.000000	0.251824	-0.0526278
85	T Pentachloronitrobenzene	Linear	0.997492	0.000000	0.224214	-0.0343982
94	T Benzidine	Linear	0.990799	0.000000	0.856095	-0.144045
97	T Butyl benzyl phthalate	Linear	0.990660	0.000000	0.629777	-0.0754711
102	T Parathion	Quadratic	0.998282	0.004688	0.0771105	-0.00587455
103	T 3,3'-Dimethylbenzidine	Linear	0.990930	0.000000	0.8889	-0.206282
106	T 3,3'-Dichlorobenzidine	Linear	0.996081	0.000000	0.542593	-0.0240894
108	T Bis(2-ethylhexyl)phthalate	Quadratic	0.997312	0.009640	0.795575	-0.0281602
109	T Di-n-octylphthalate	Linear	0.993482	0.000000	1.52783	-0.178712

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

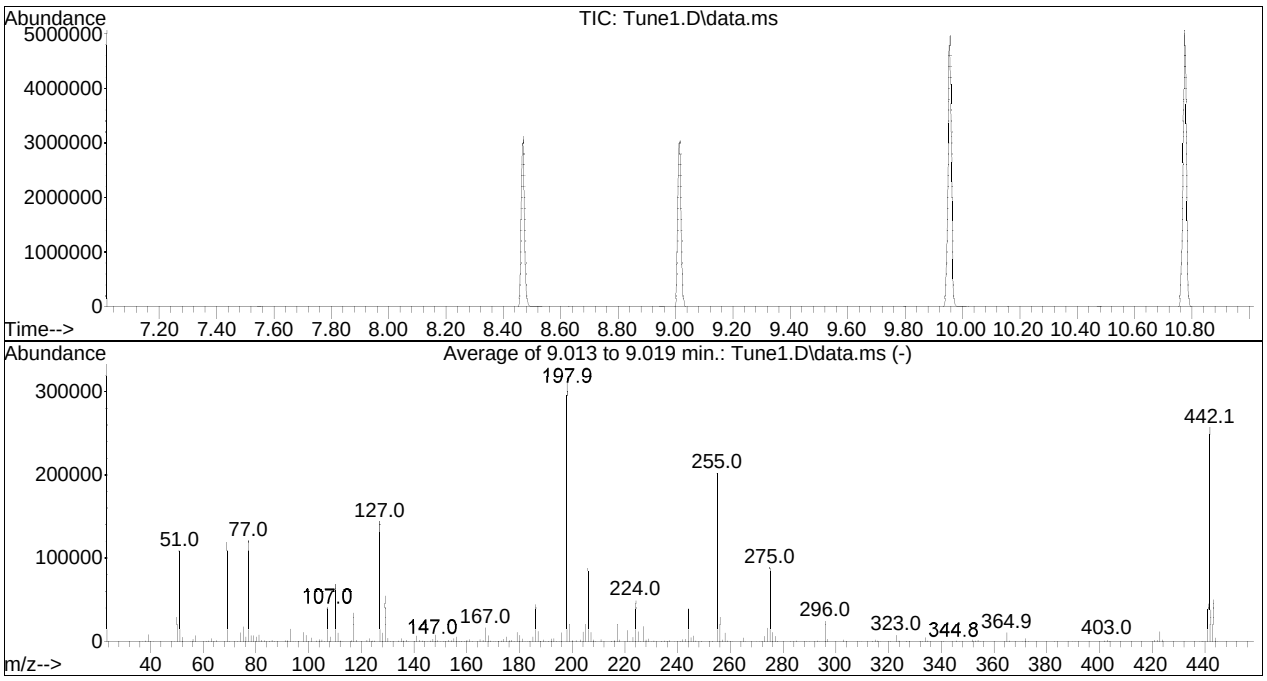
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
91)	T	Phenanthrene	1.655	1.246	1.214	1.134	1.019	1.085	1.072	1.100	1.119	1.183	16.11
92)	T	Anthracene	1.572	1.147	1.191	1.098	1.017	1.082	1.065	1.115	1.153	1.160	14.06
93)	T	Carbazole	1.327	1.038	1.109	1.013	0.956	1.020	1.001	1.037	1.079	1.064	10.14
94)	T	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

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



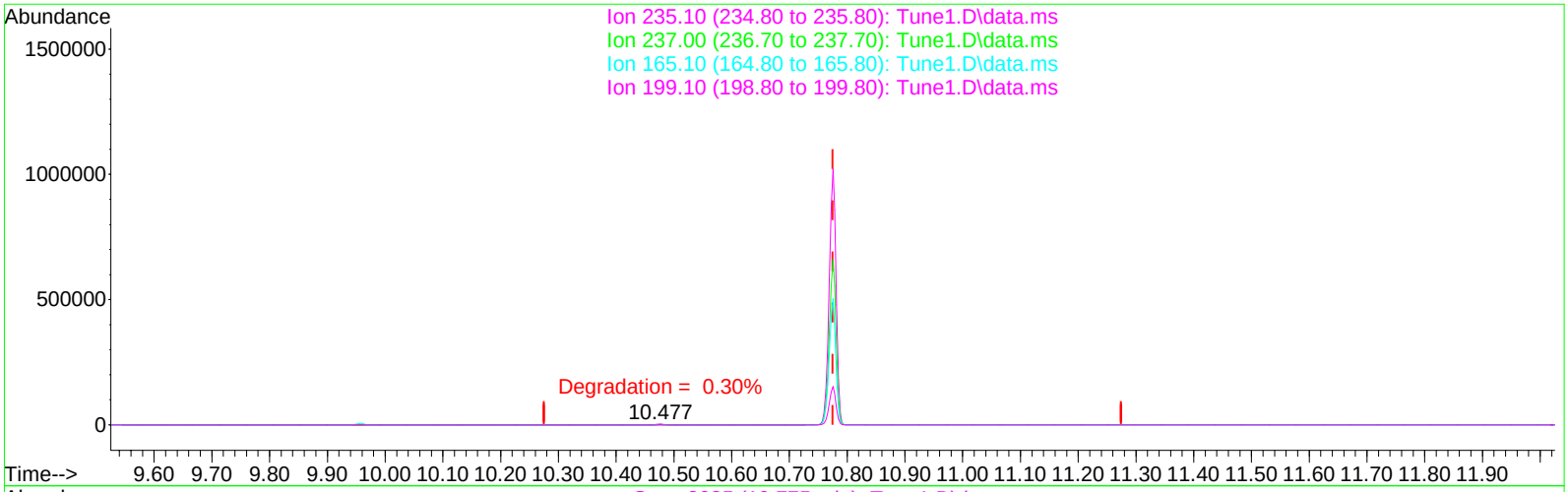
Spectrum Information: Average of 9.013 to 9.019 min.

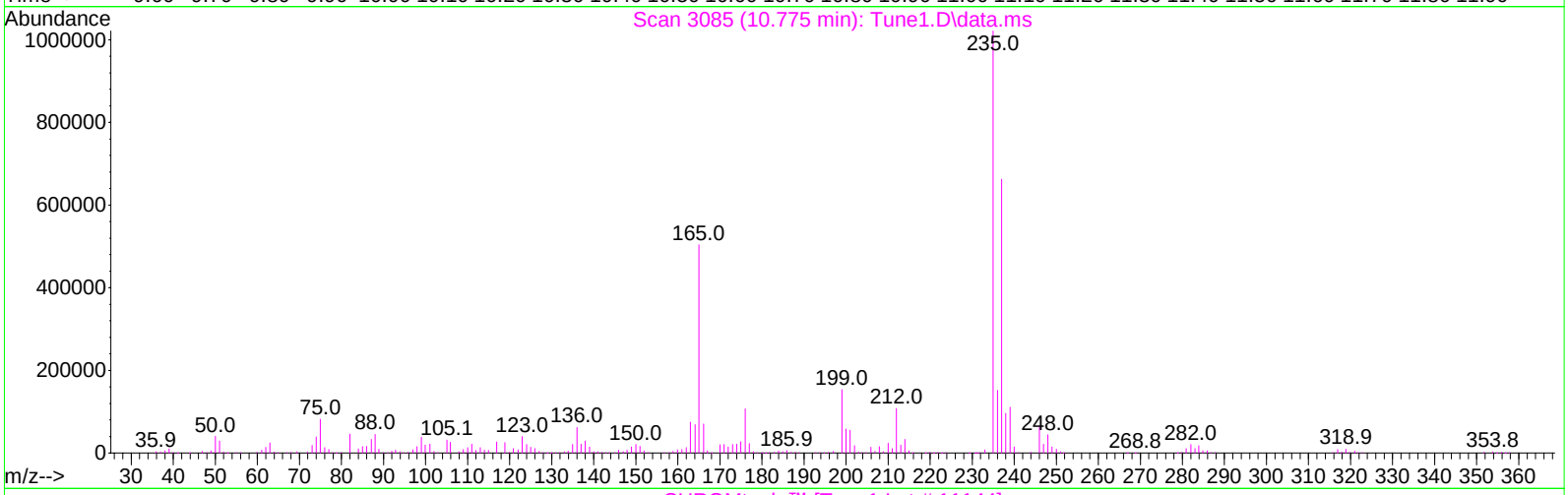
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.4	108867	PASS
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	118323	PASS
70	69	0.00	2	0.6	688	PASS
127	198	10	80	45.2	143328	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	316843	PASS
199	198	5	9	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

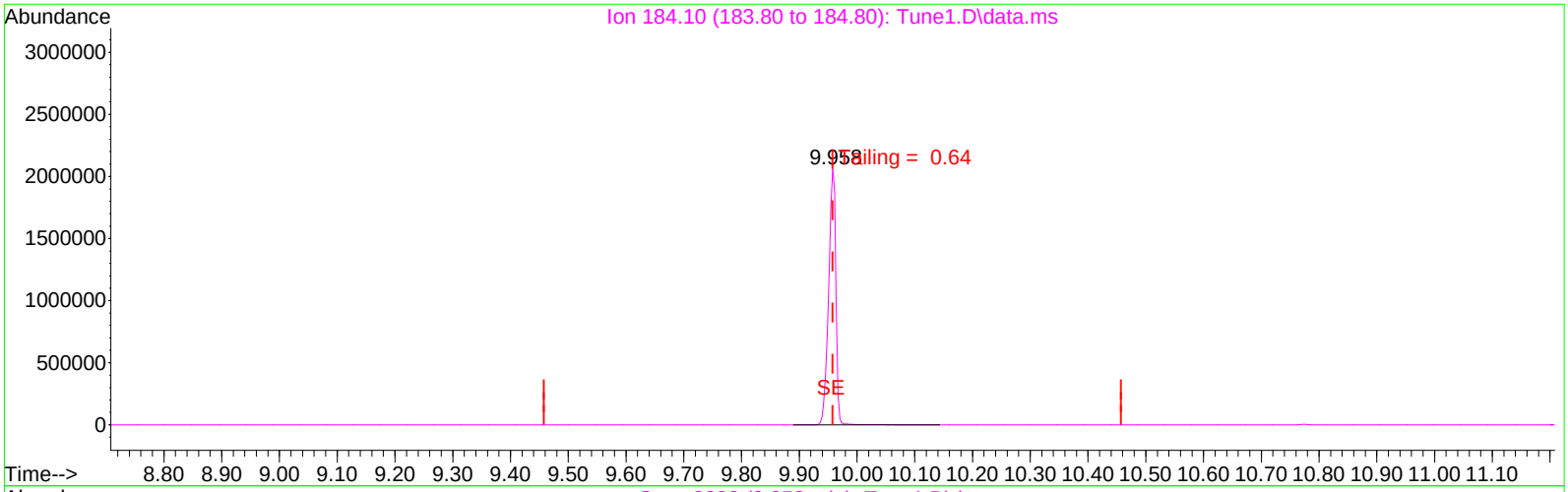
response 851056

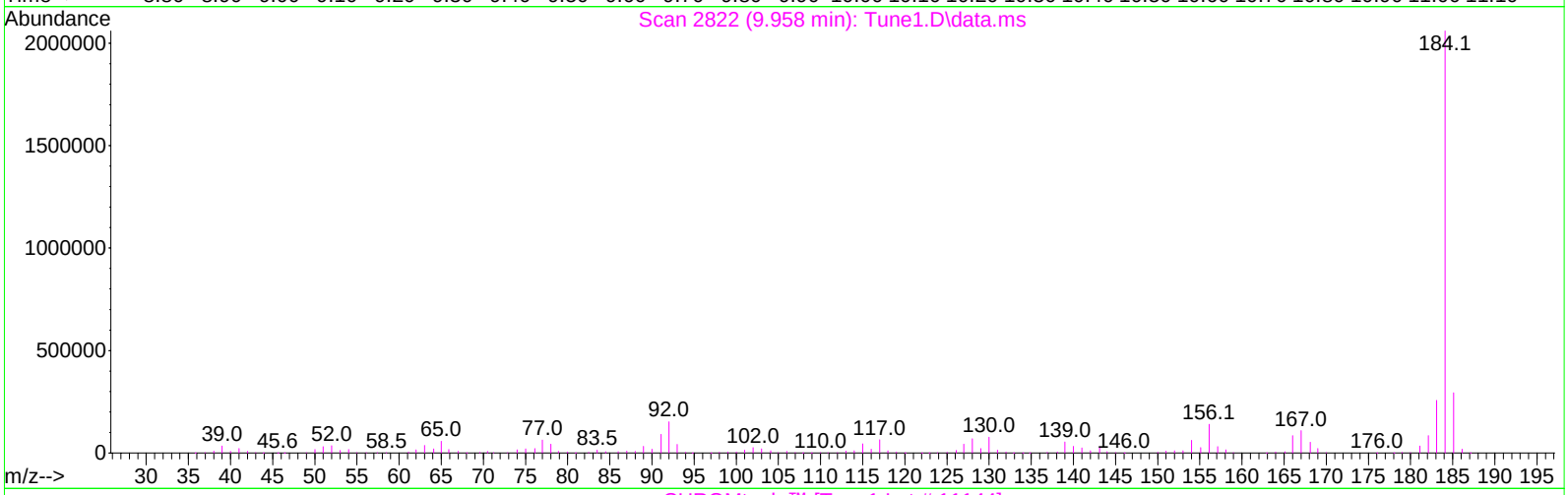
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.90	64.29
165.10	48.70	47.50
199.10	15.80	14.59

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
QLast Update : Fri Nov 01 13:11:54 2024
Response via : Initial Calibration





CHROMtools™ [Tune1 Lot # 11144]

(3) Benzidine (T)

9.958min (+ 0.000) 176.60

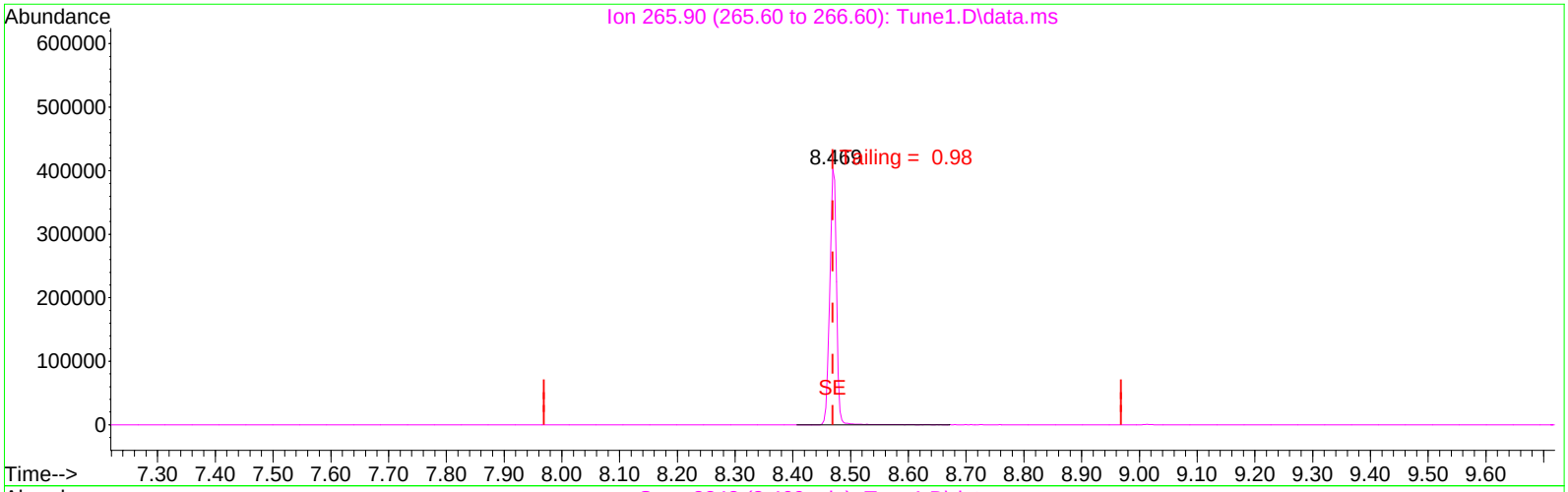
response 1797793

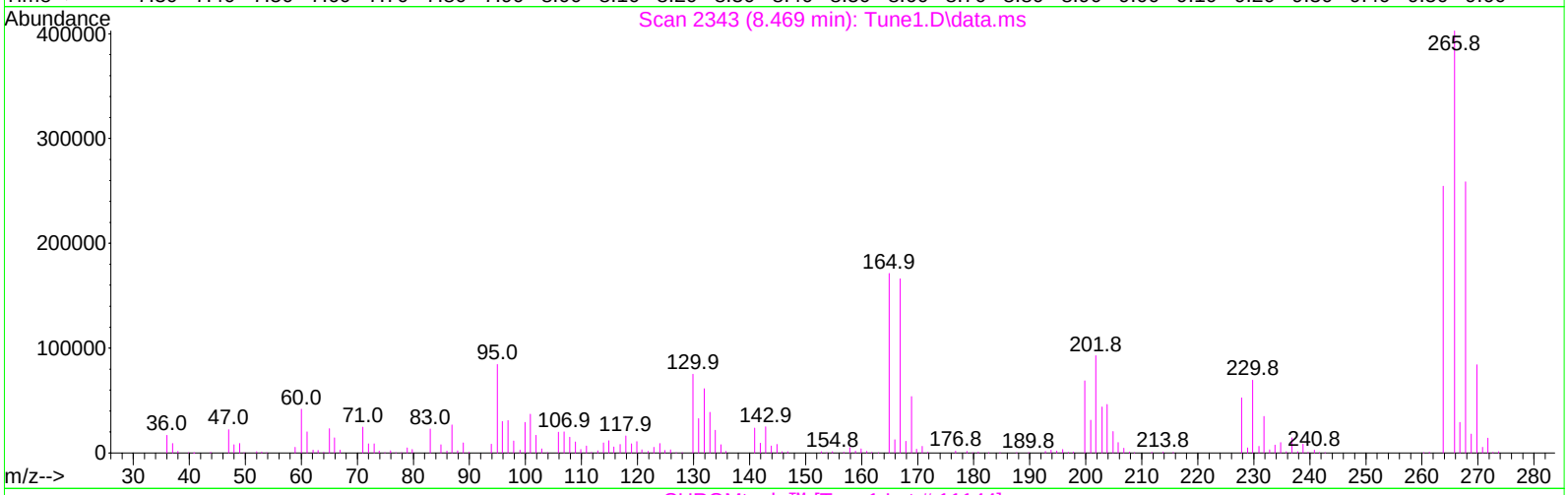
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

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

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

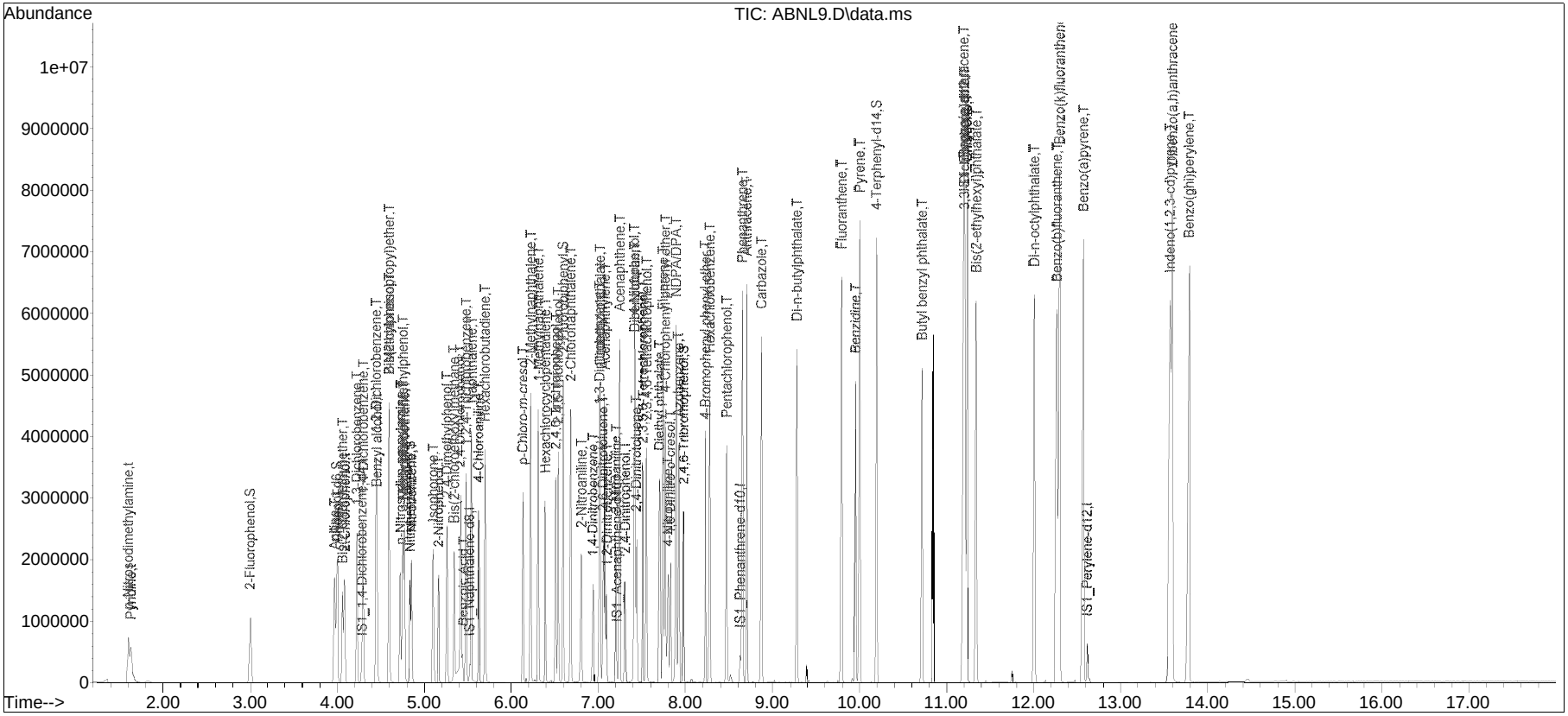
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

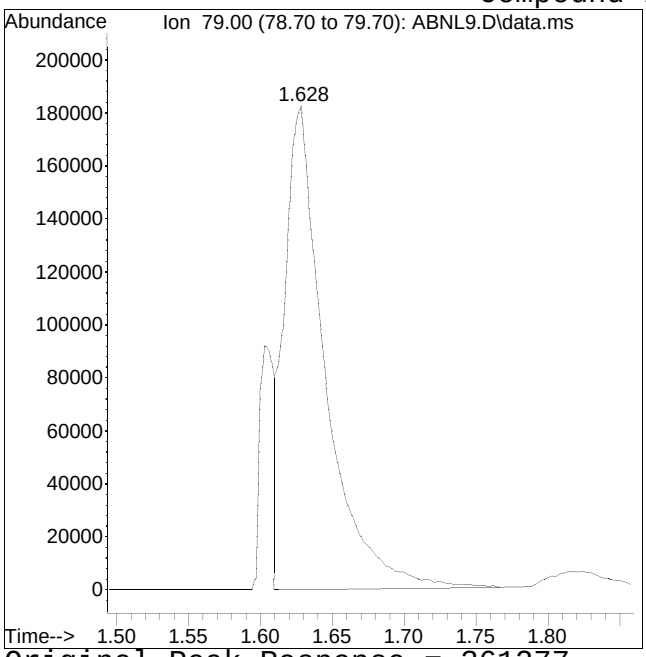
Sub List : ABNical - ABN ical sublistVTICAL\ABNL6.D•



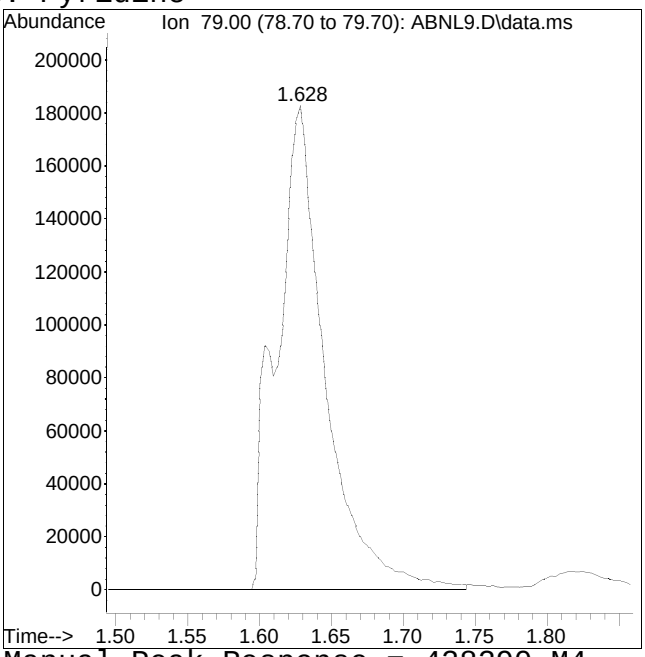
Manual Integration Report

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



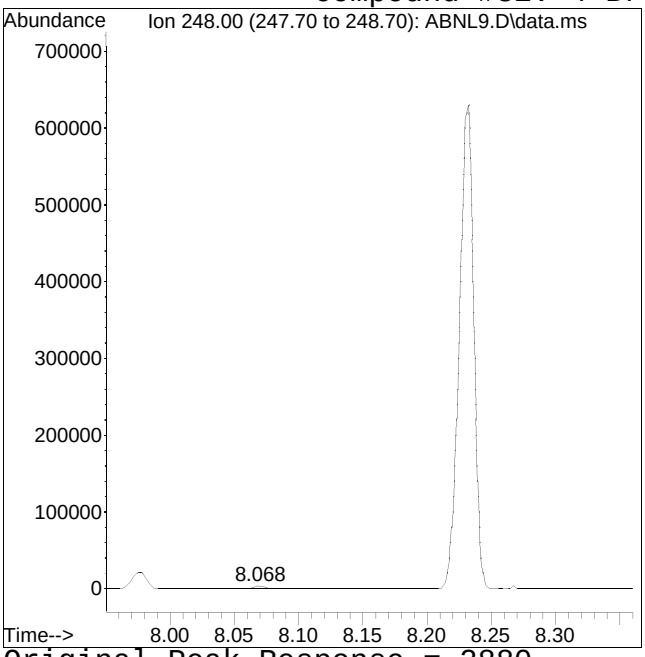
Manual Peak Response = 428290 M4

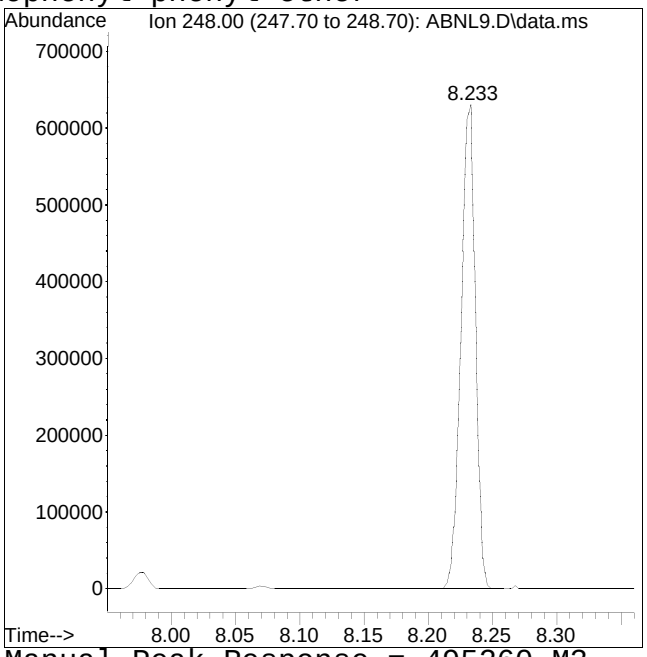
M4 = Poor automated baseline construction.

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



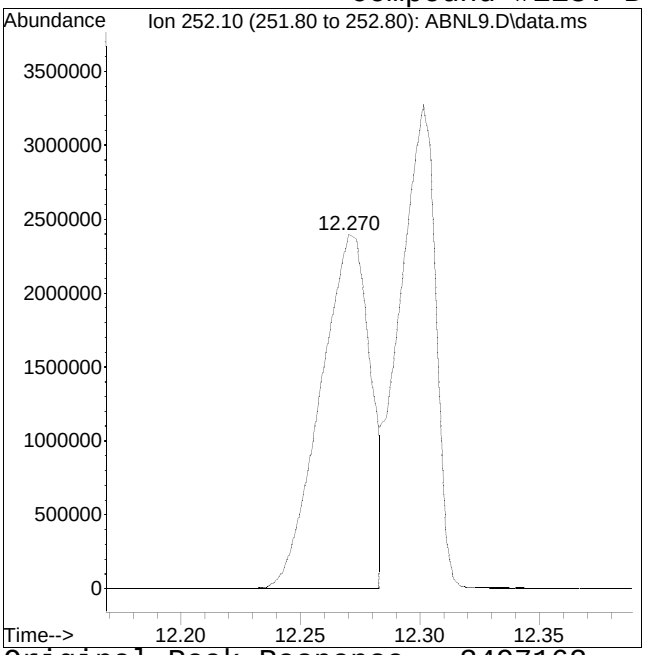


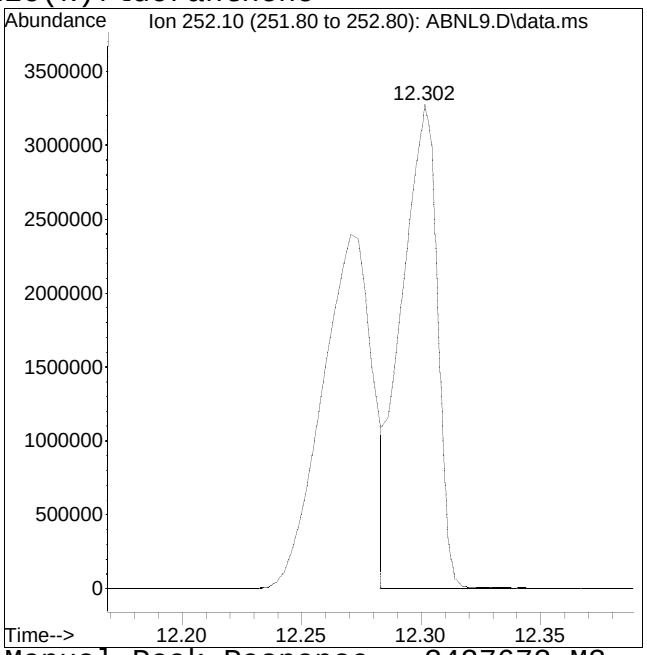
Original Peak Response = 2880 Manual Peak Response = 495260 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

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



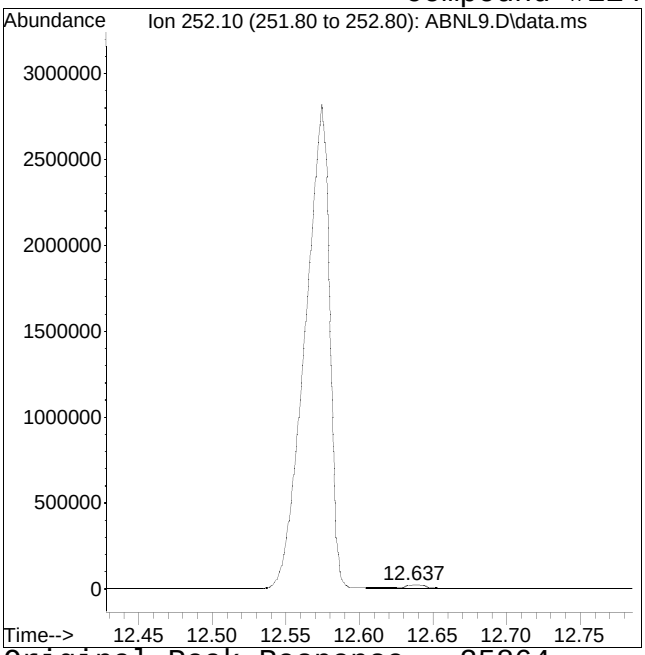


Original Peak Response = 3497162 Manual Peak Response = 3427673 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

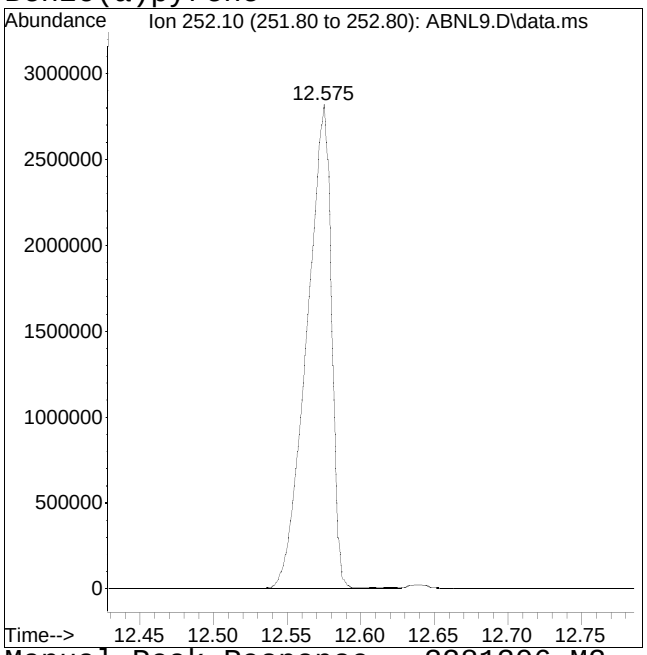
Manual Integration Report

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

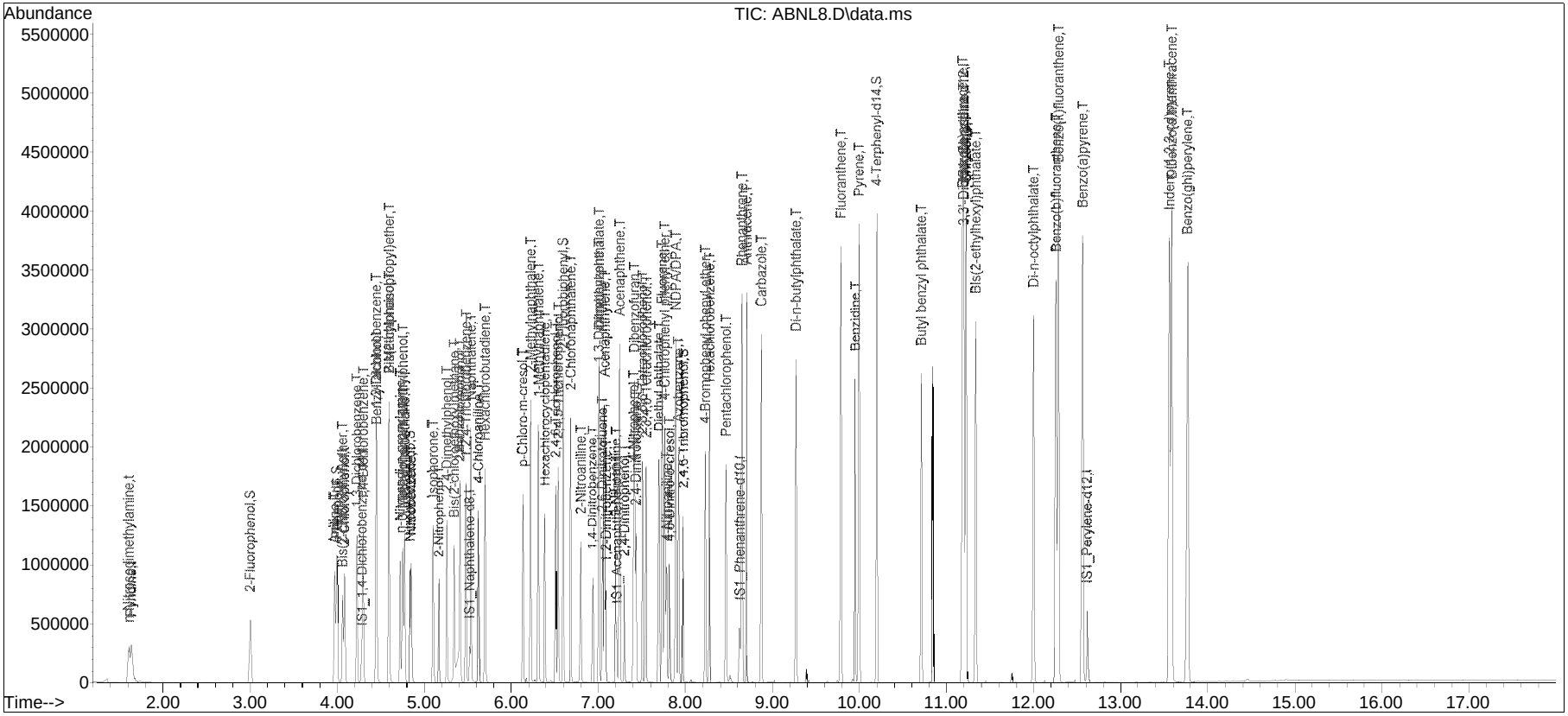
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

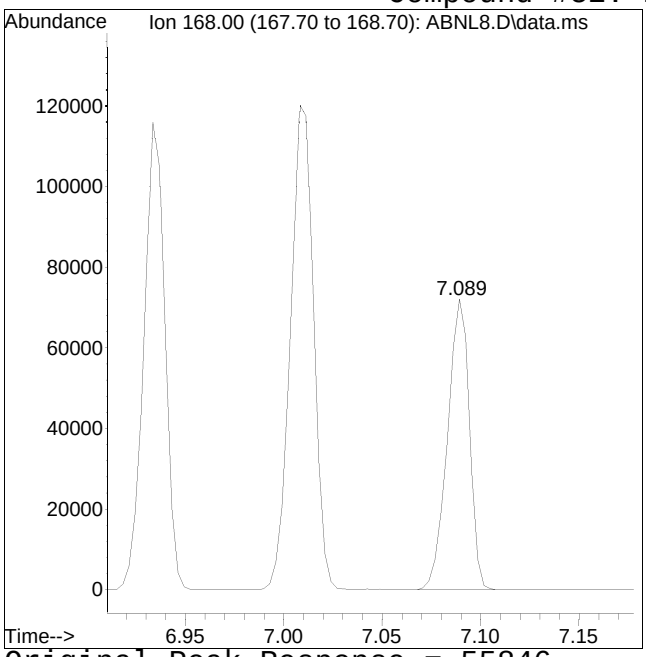
Sub List : ABNical - ABN ical sublistVTICAL\ABNL6.D•

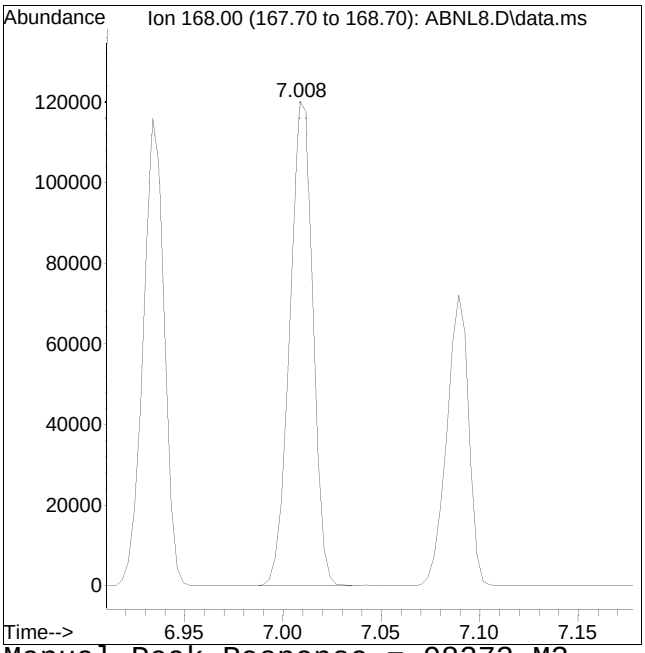


Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ABNL8.D
Date Inj'd : 11/5/2024 5:23 pm
Sample : IL3,32,,ABNL25 Lot# 11112
Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:36 am

Compound #52: 1,3-Dinitrobenzene





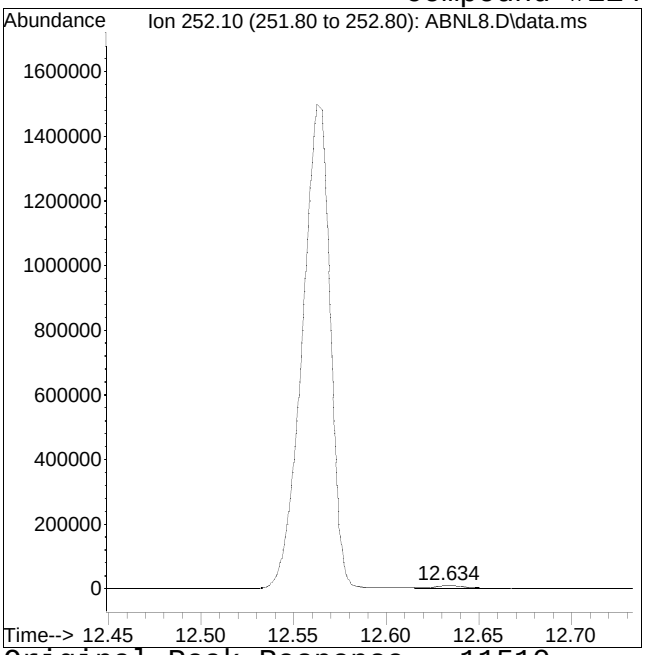
Original Peak Response = 55846 Manual Peak Response = 98273 M3

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.

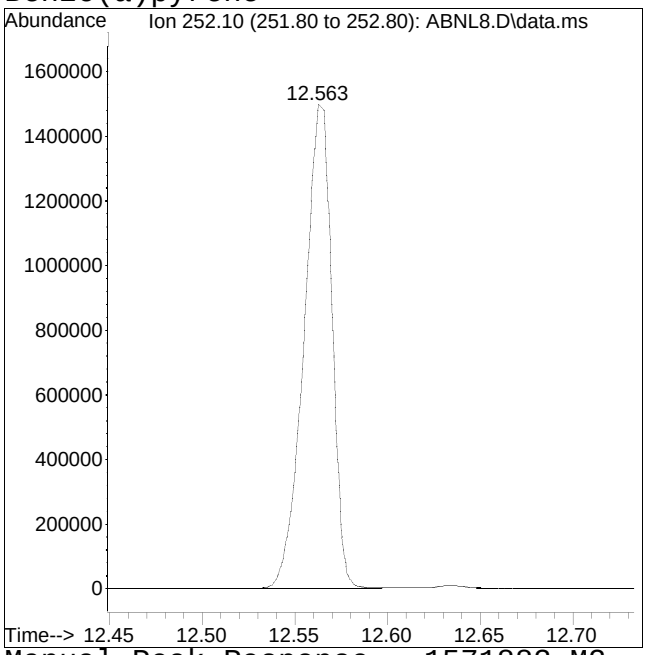
Manual Integration Report

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

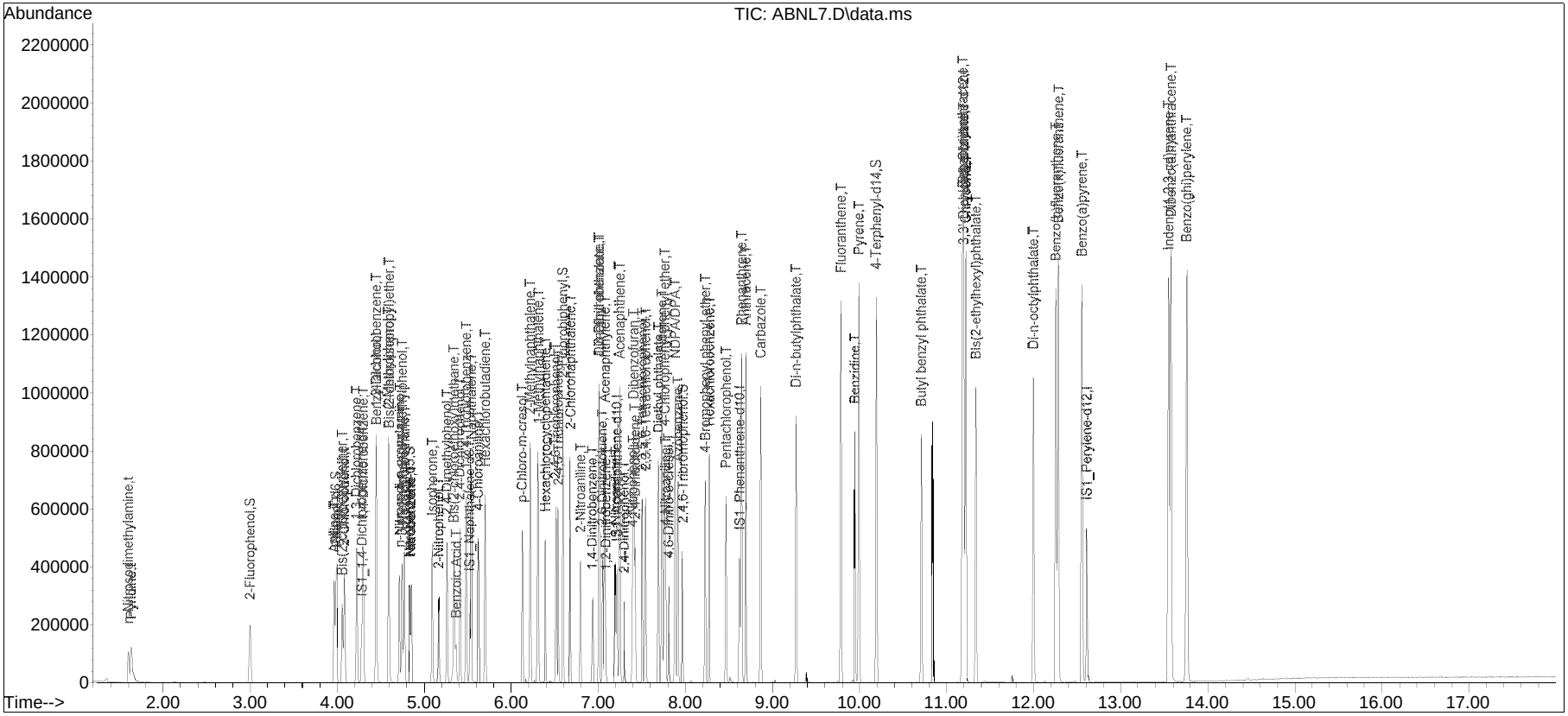
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

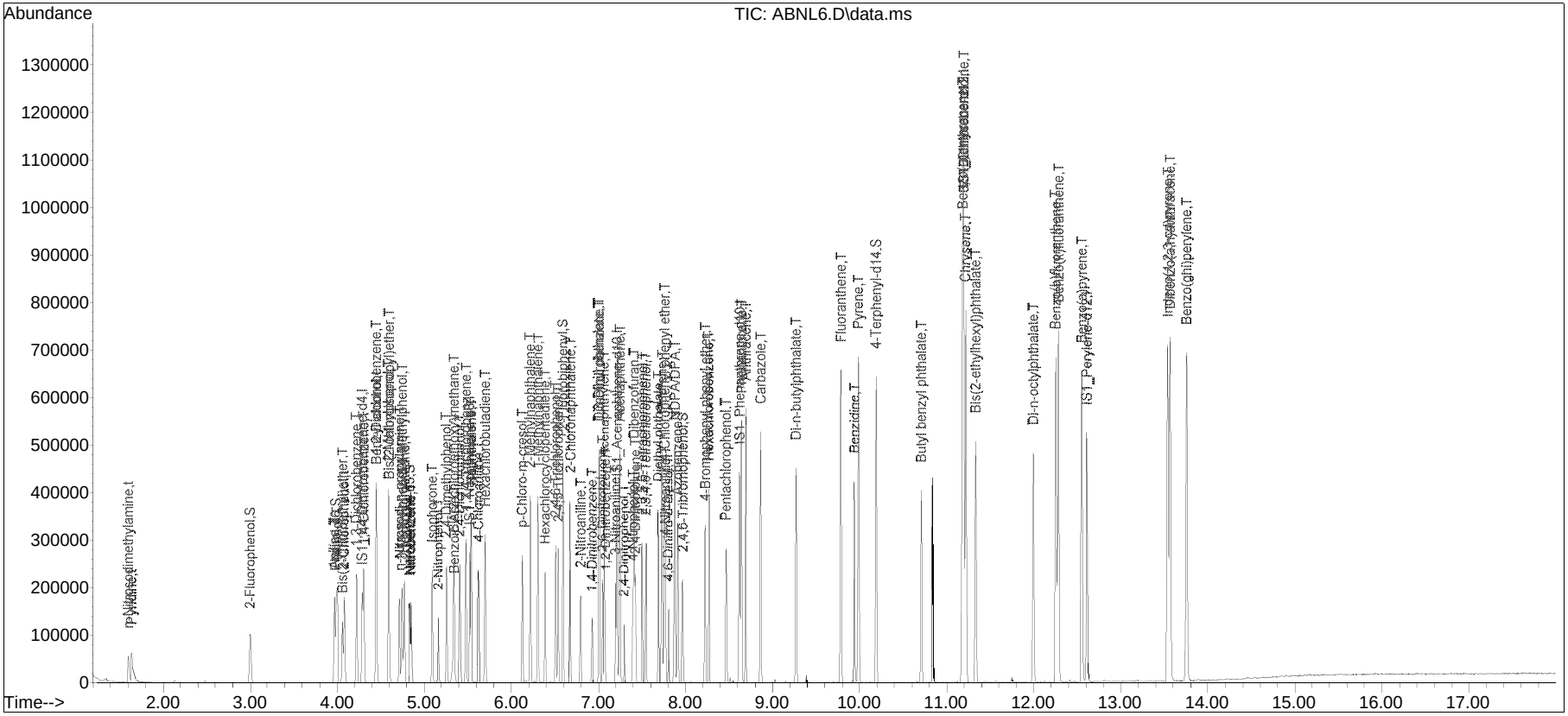
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

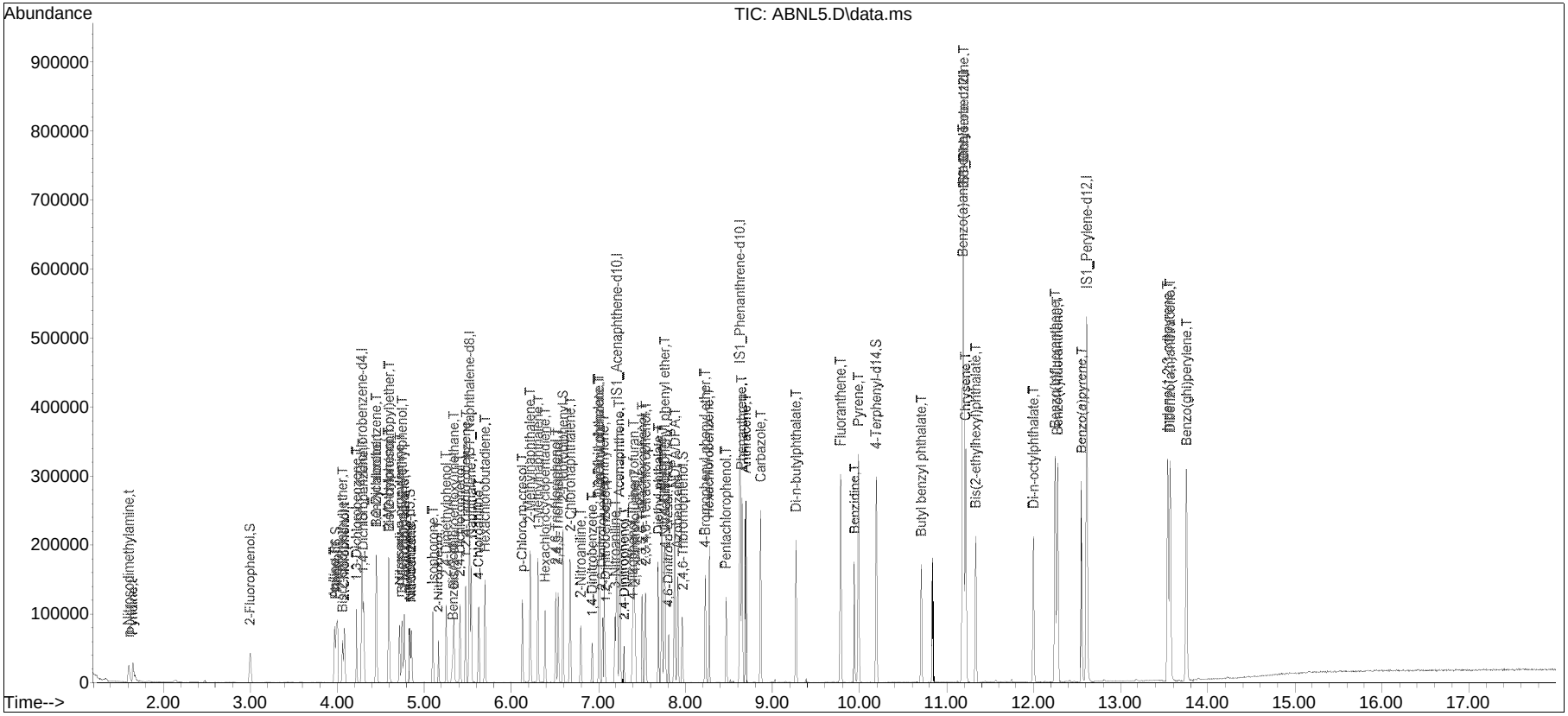
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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•

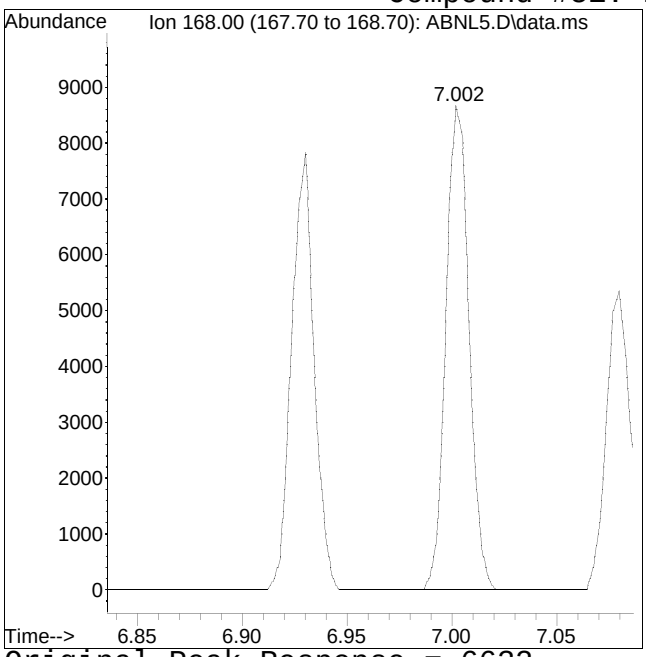


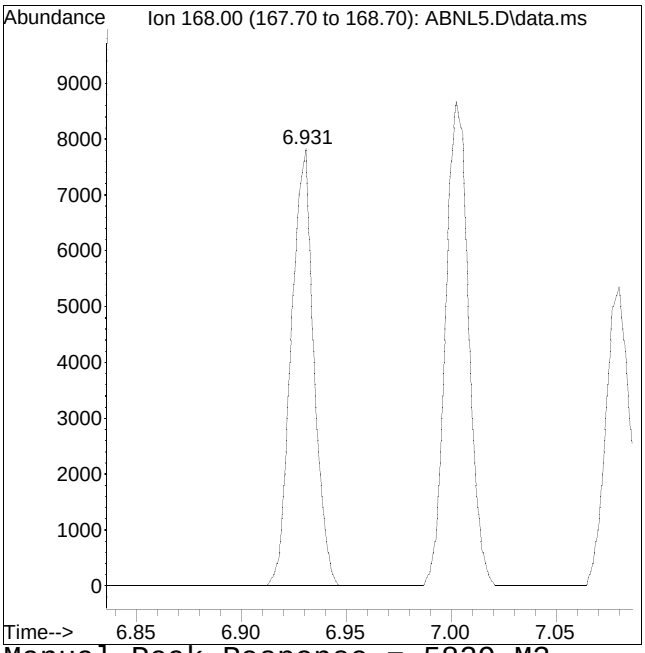
Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ABNL5.D
Date Inj'd : 11/5/2024 6:33 pm
Sample : IL6,32,,ABNL2.5 Lot# 11115

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 = 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

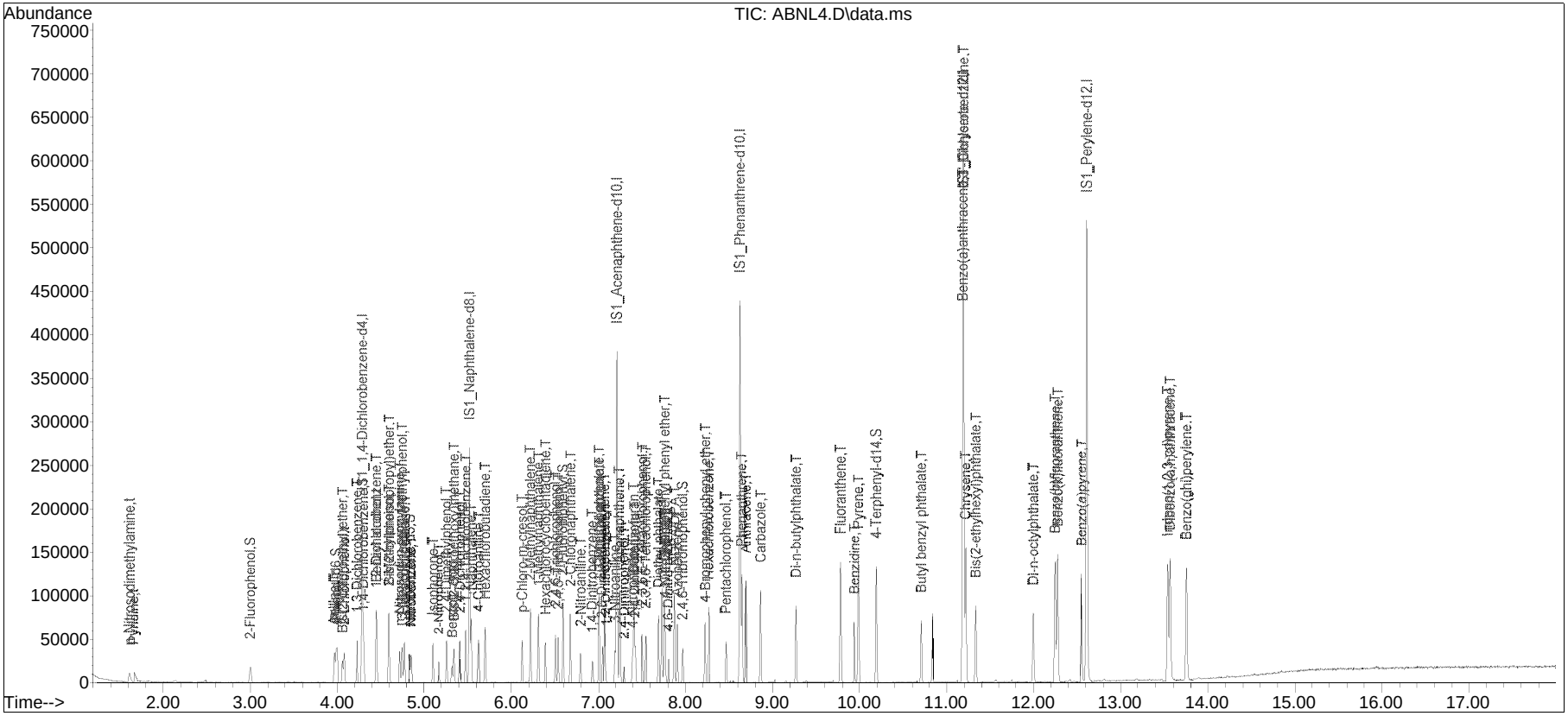
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

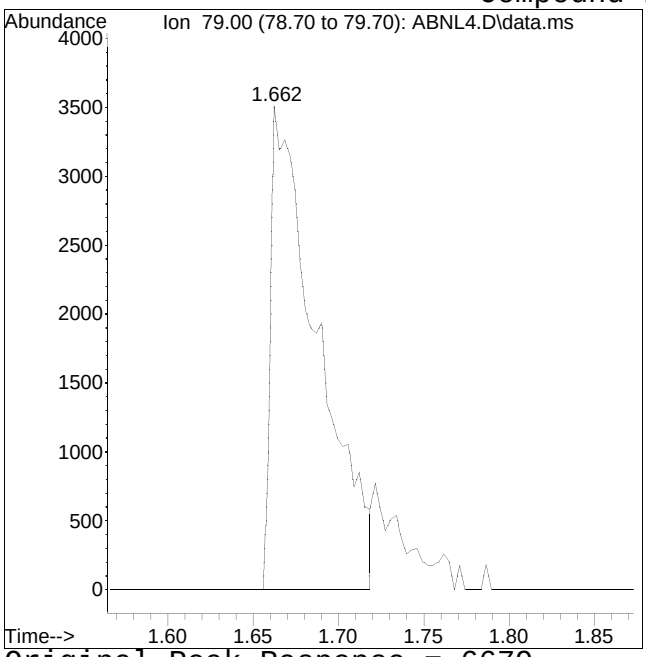
Sub List : ABNical - ABN ical sublistVTICAL\ABNL6.D•

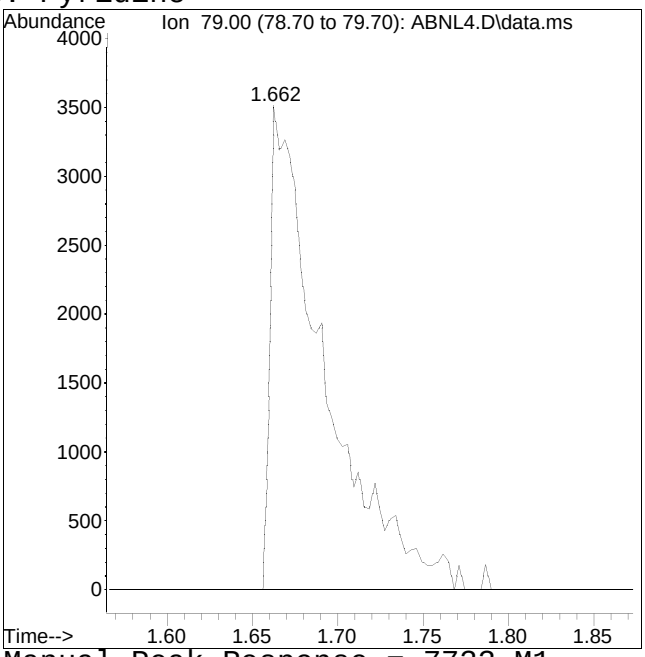


Manual Integration Report

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

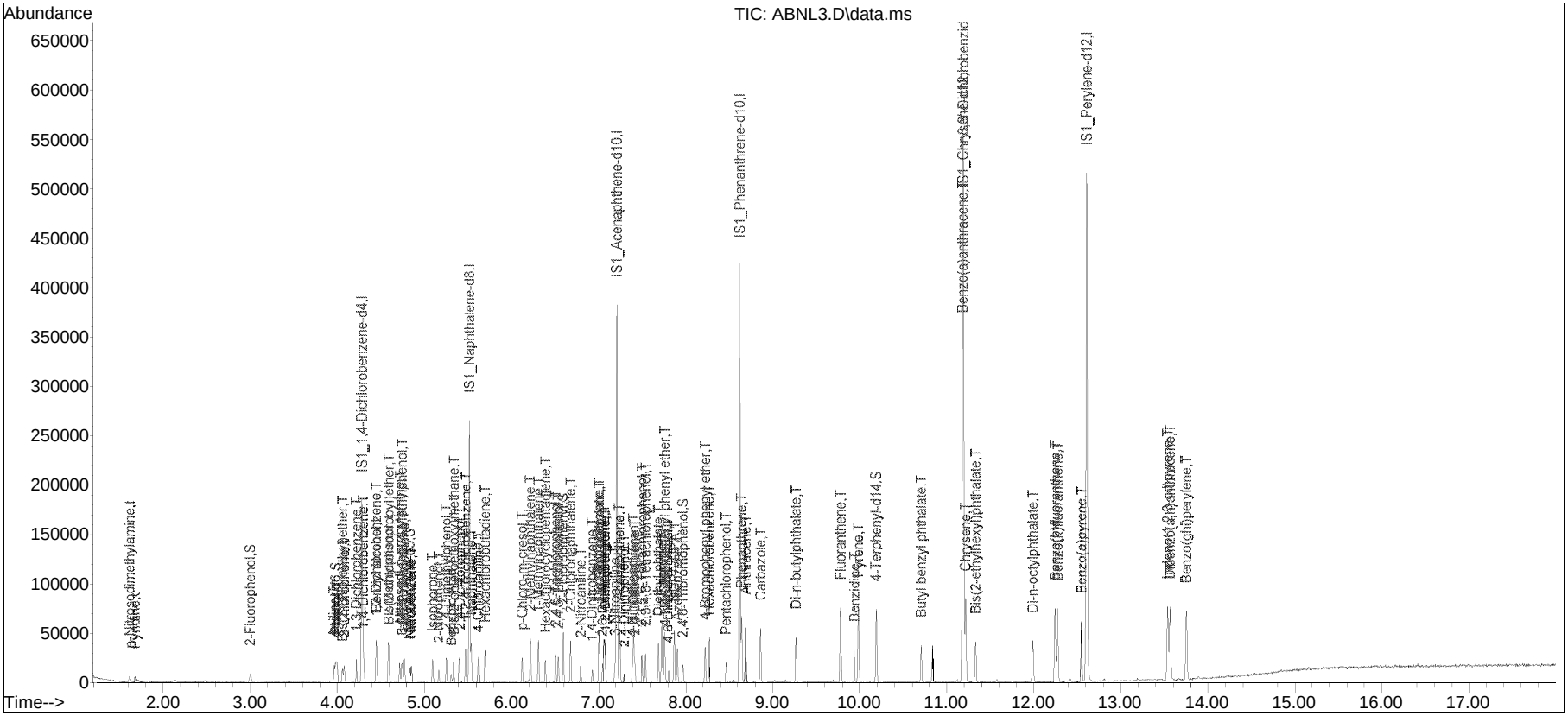
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

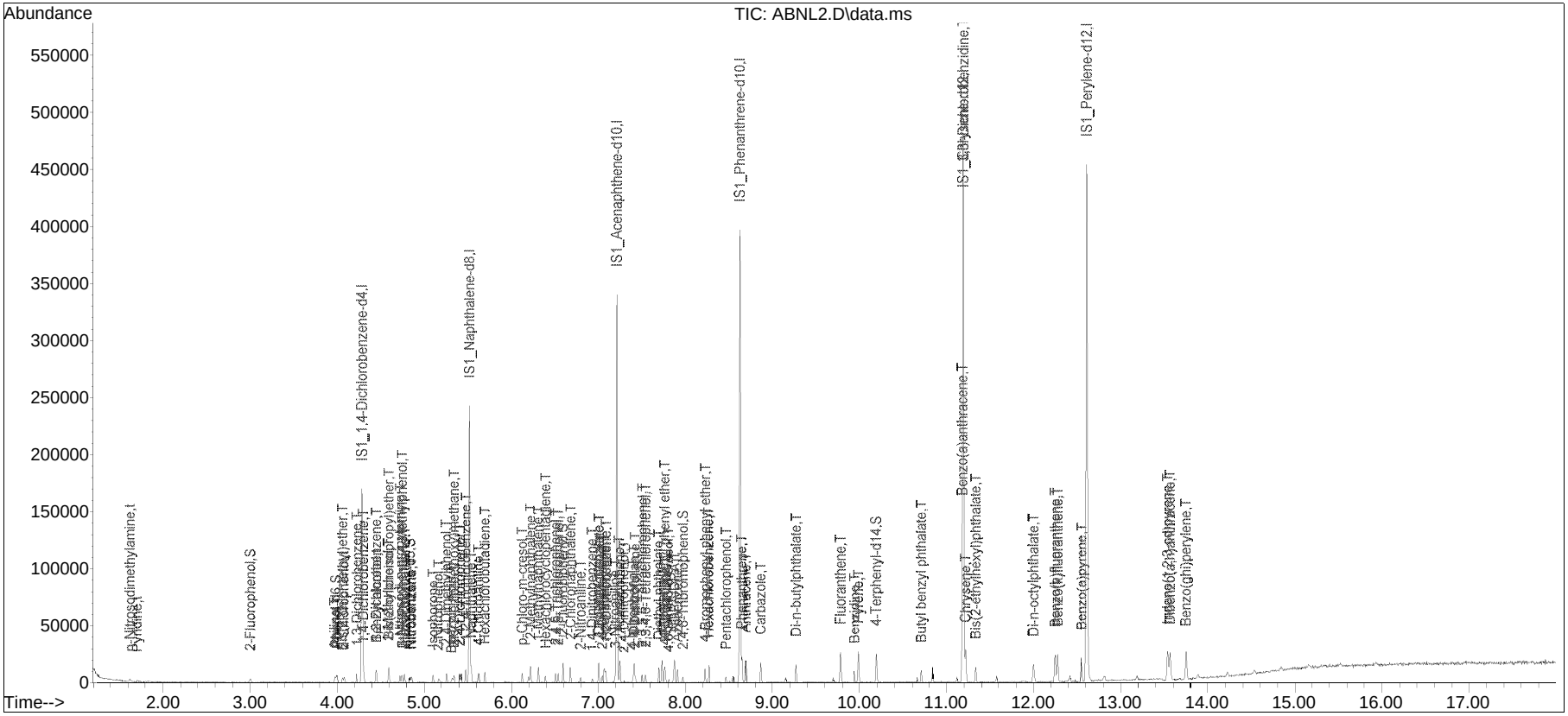
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

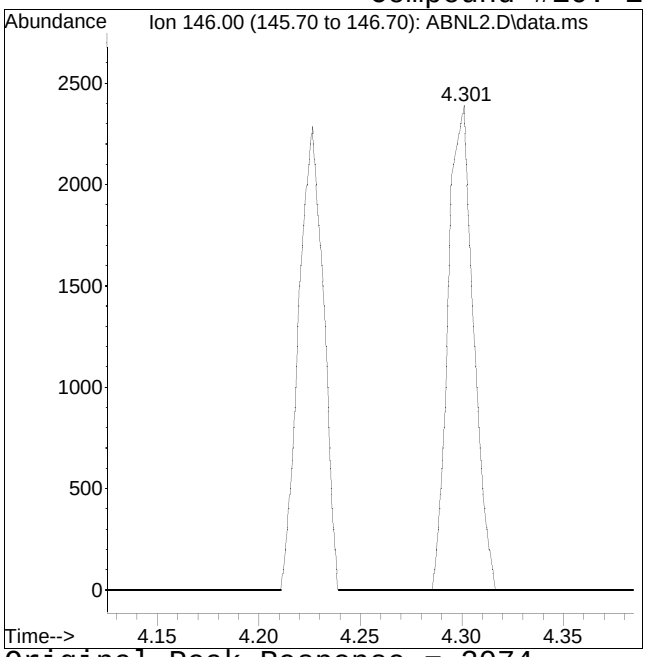
Sub List : ABNical - ABN ical sublistVTICAL\ABNL6.D•

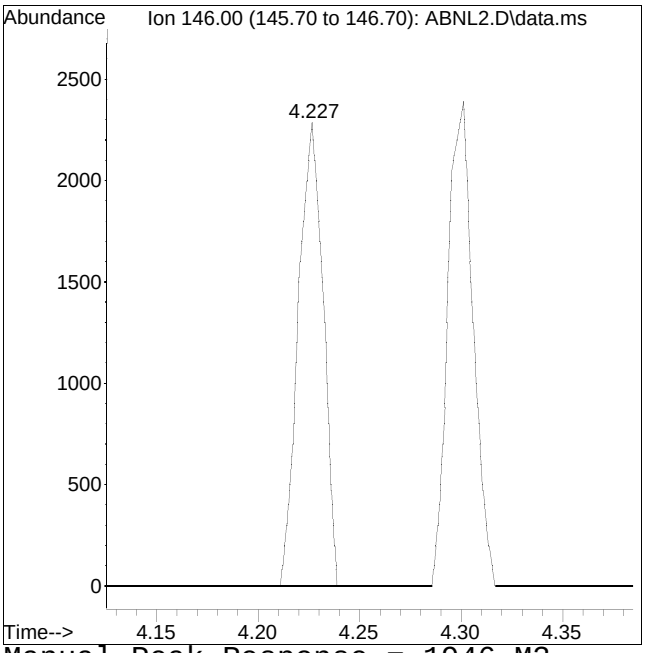


Manual Integration Report

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

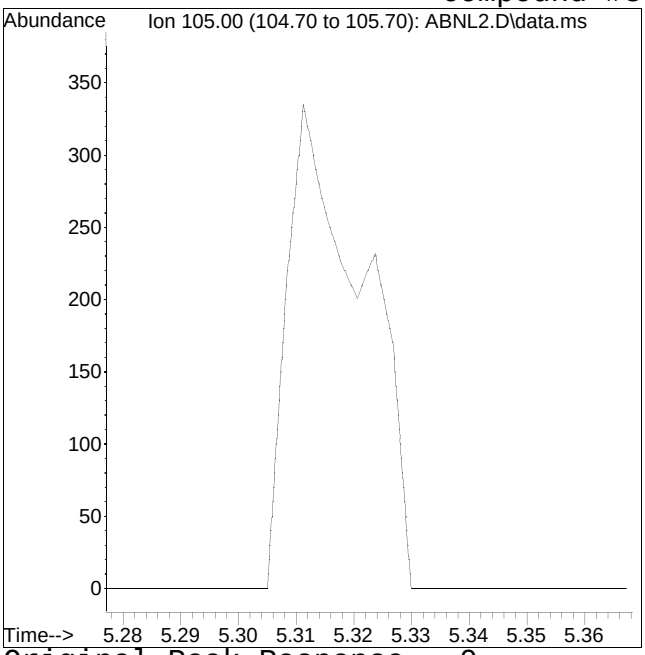
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

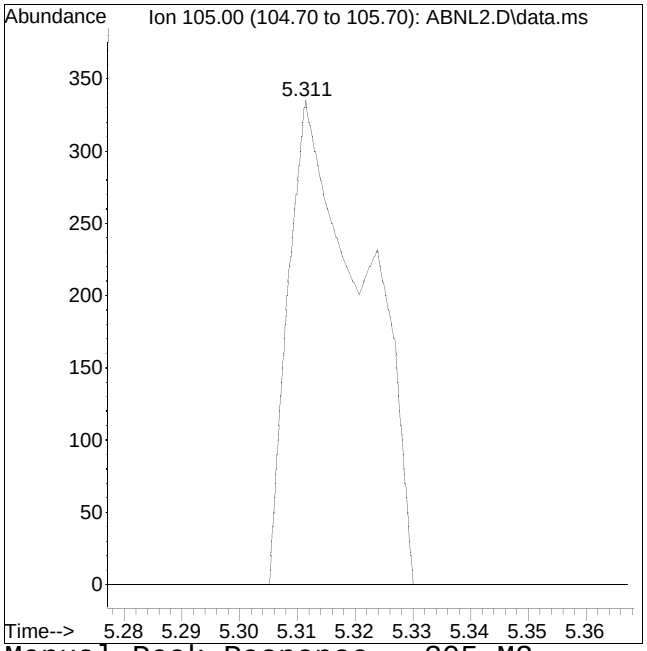
Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ABNL2.D
Date Inj'd : 11/5/2024 7:42 pm
Sample : IL9,32,,ABNL0.2 Lot# 11149

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

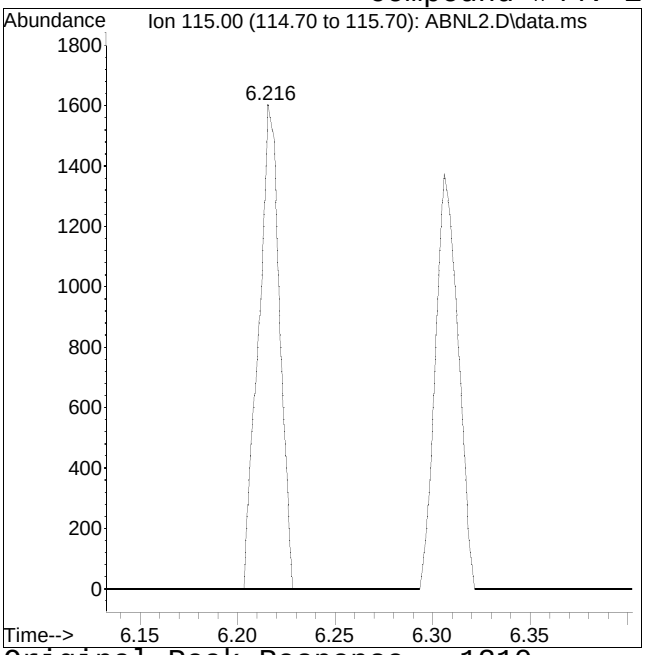
M2 = Peak not found by automatic integration algorithm.

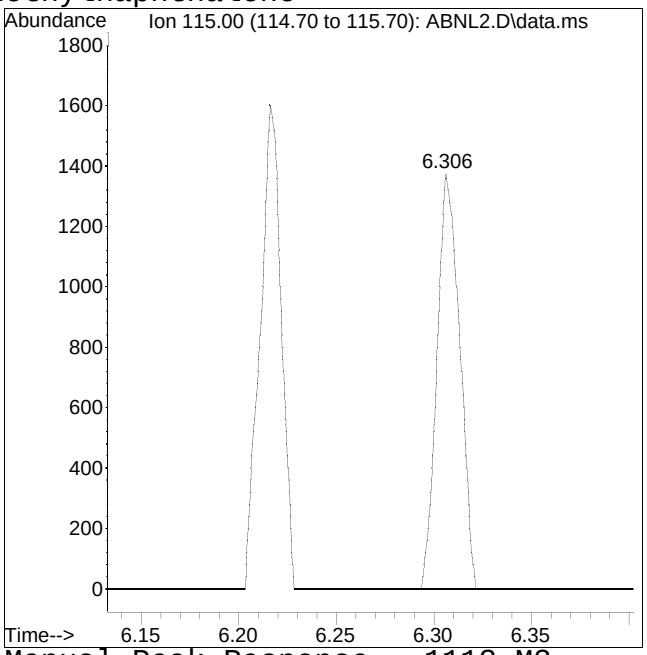
Manual Integration Report

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





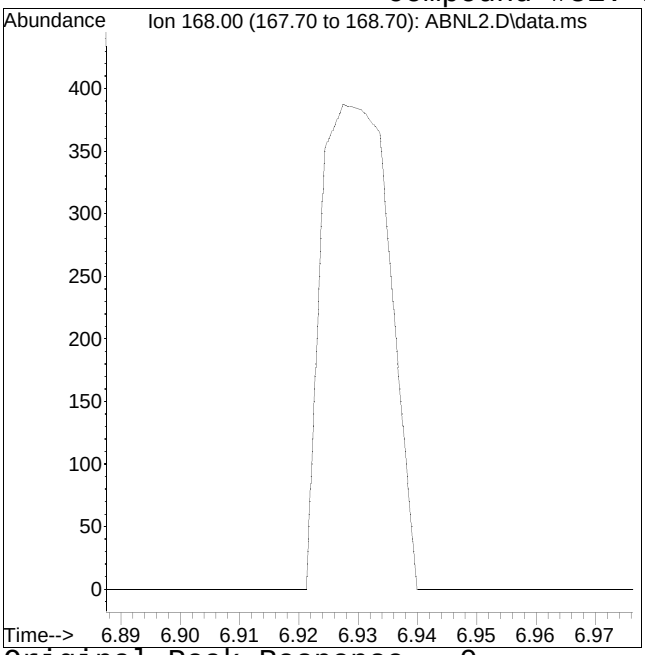
Original Peak Response = 1210 Manual Peak Response = 1113 M3

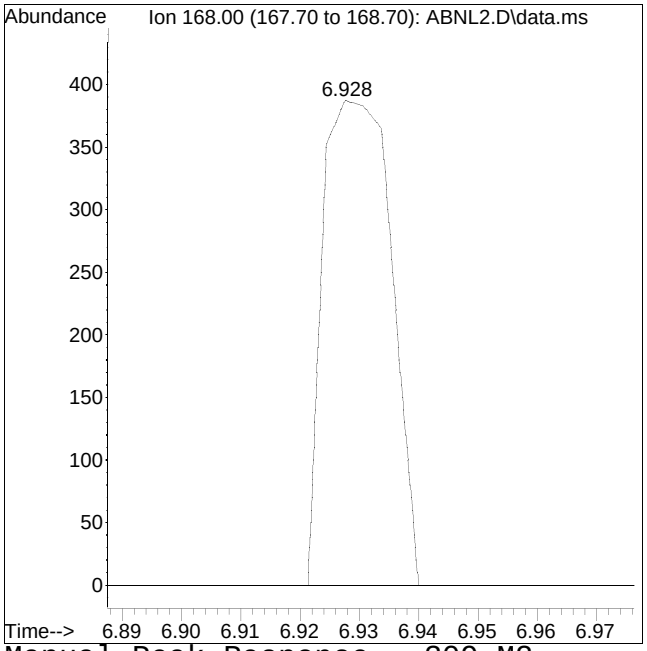
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

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



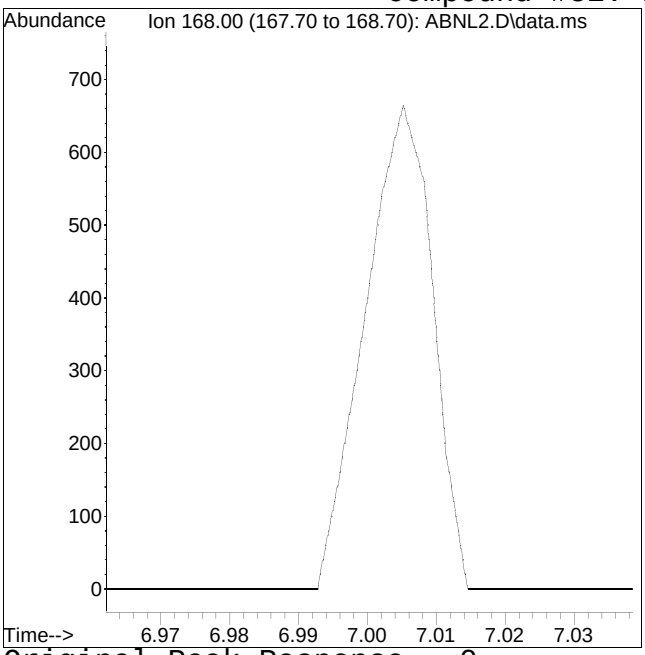


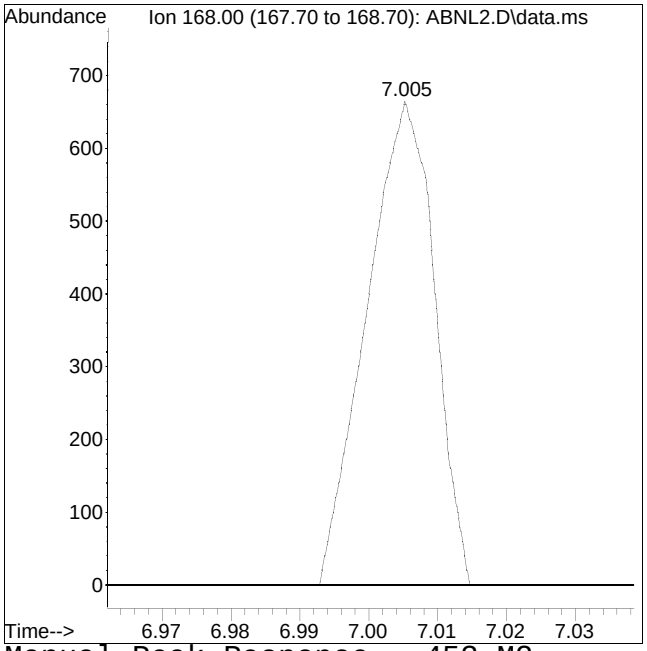
Original Peak Response = 0 Manual Peak Response = 309 M2
M2 = Peak not found by automatic integration algorithm.

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





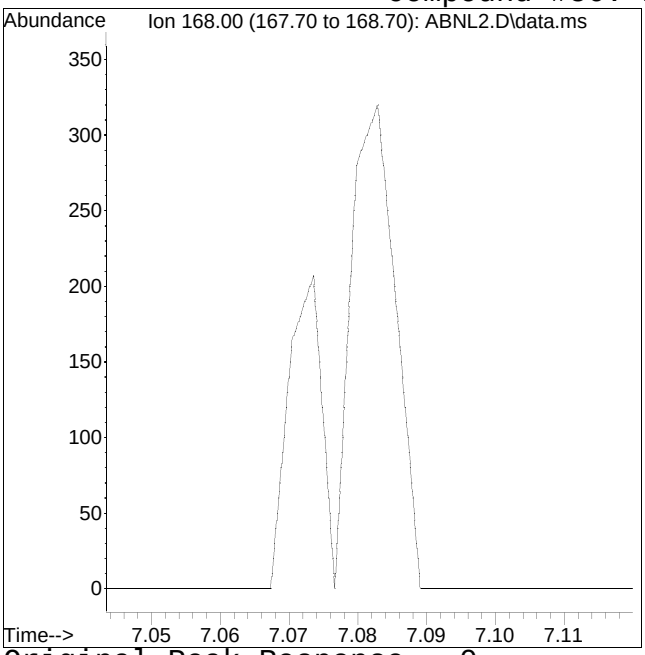
Original Peak Response = 0 Manual Peak Response = 453 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

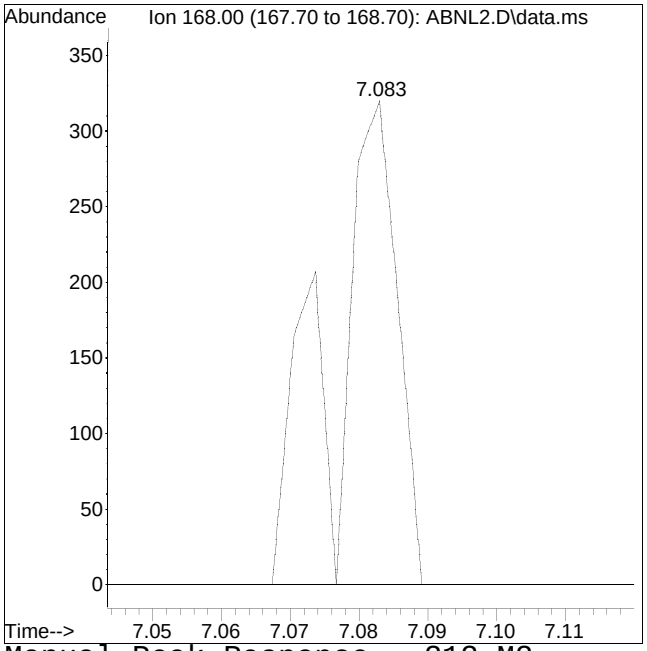
Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ABNL2.D
Date Inj'd : 11/5/2024 7:42 pm
Sample : IL9,32,,ABNL0.2 Lot# 11149

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

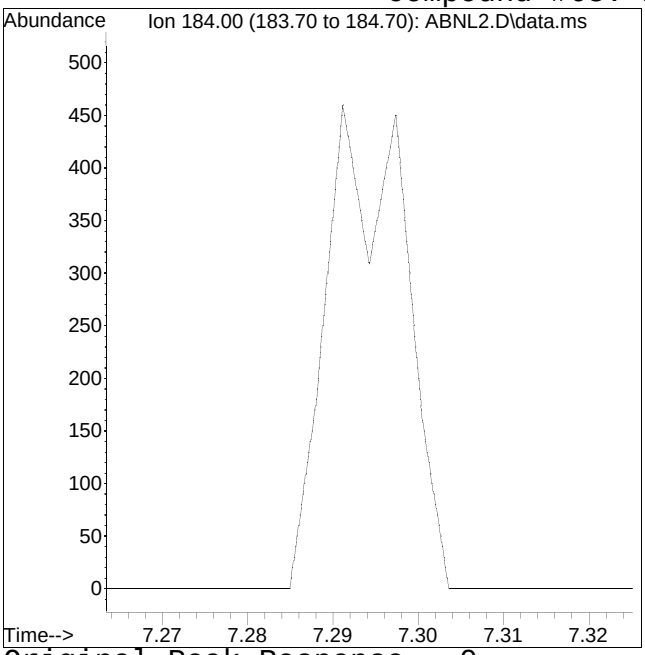
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

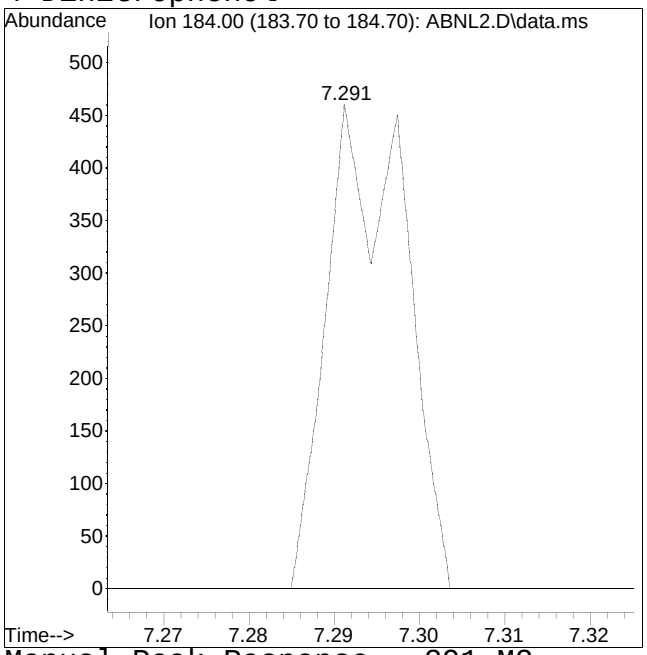
Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ABNL2.D
Date Inj'd : 11/5/2024 7:42 pm
Sample : IL9,32,,ABNL0.2 Lot# 11149

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

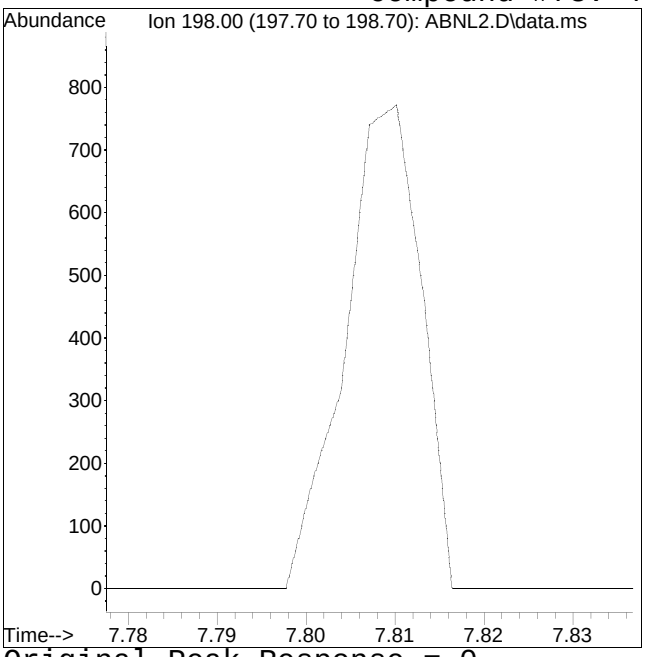
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

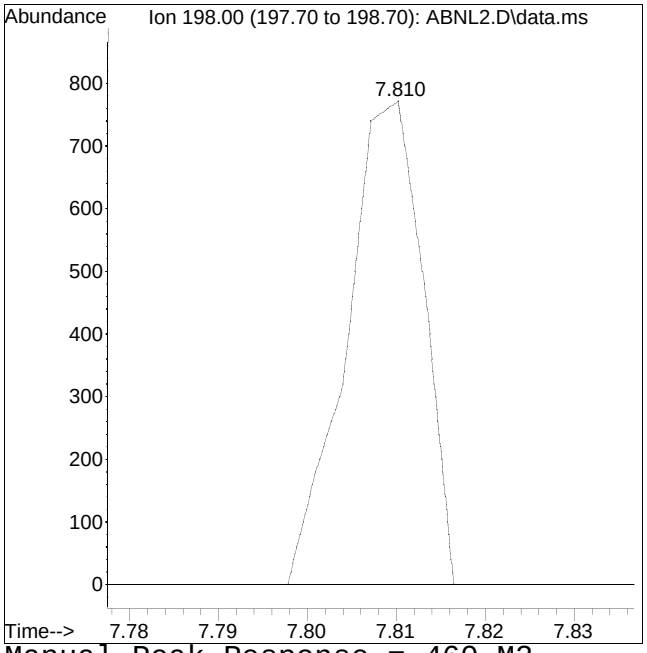
Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ABNL2.D
Date Inj'd : 11/5/2024 7:42 pm
Sample : IL9,32,,ABNL0.2 Lot# 11149

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

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

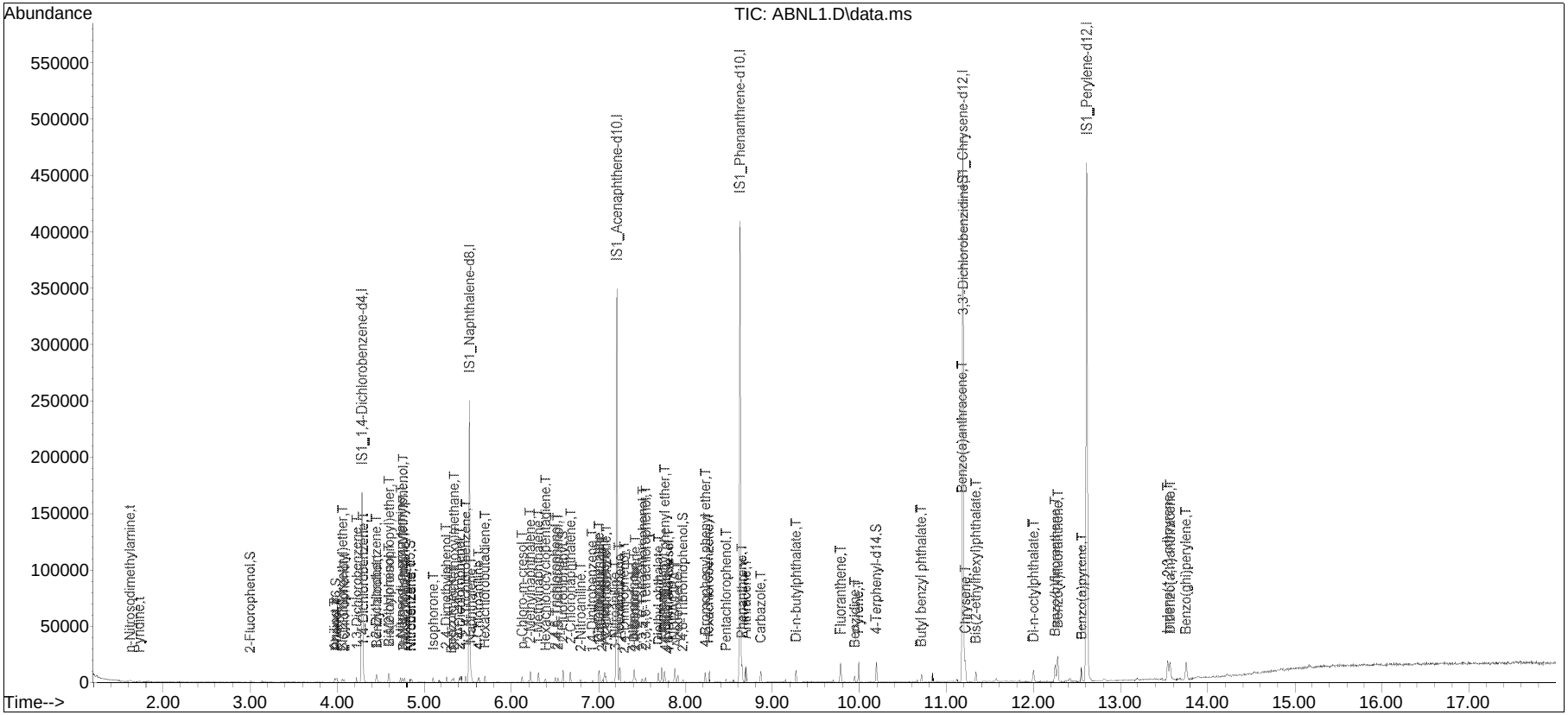
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

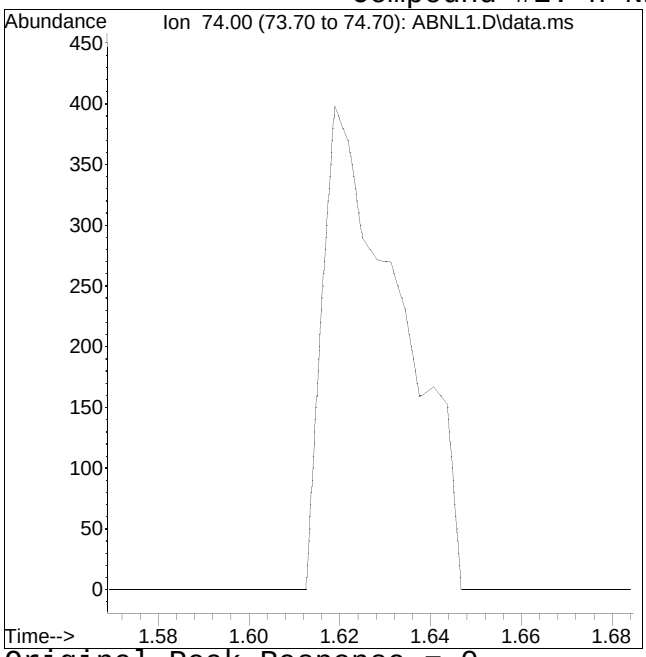
Sub List : ABNical - ABN ical sublistVTICAL\ABNL6.D•

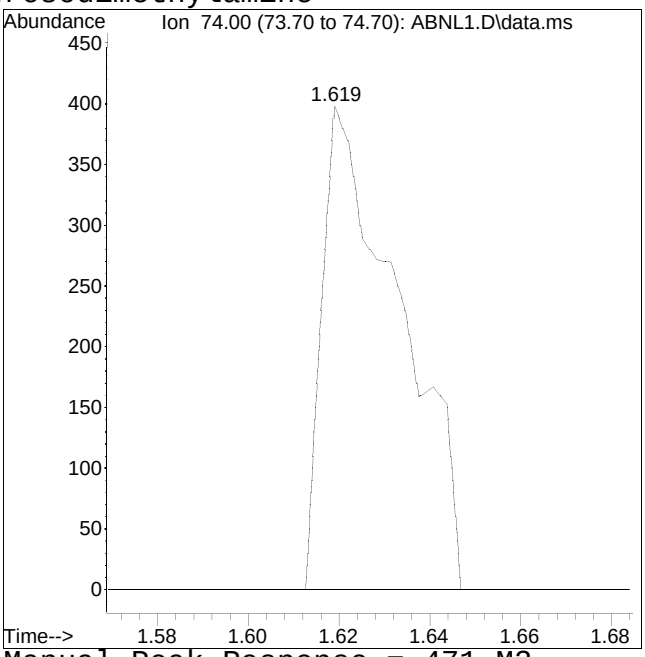


Manual Integration Report

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



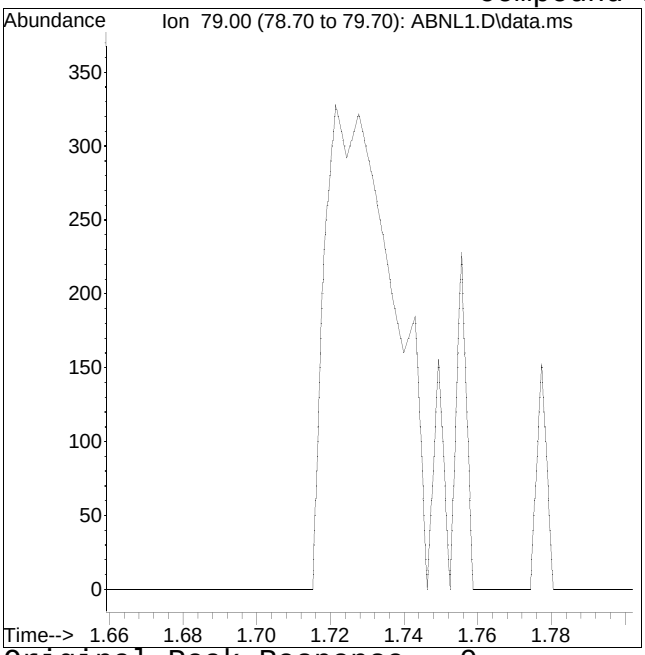


Original Peak Response = 0 Manual Peak Response = 471 M2
M2 = Peak not found by automatic integration algorithm.

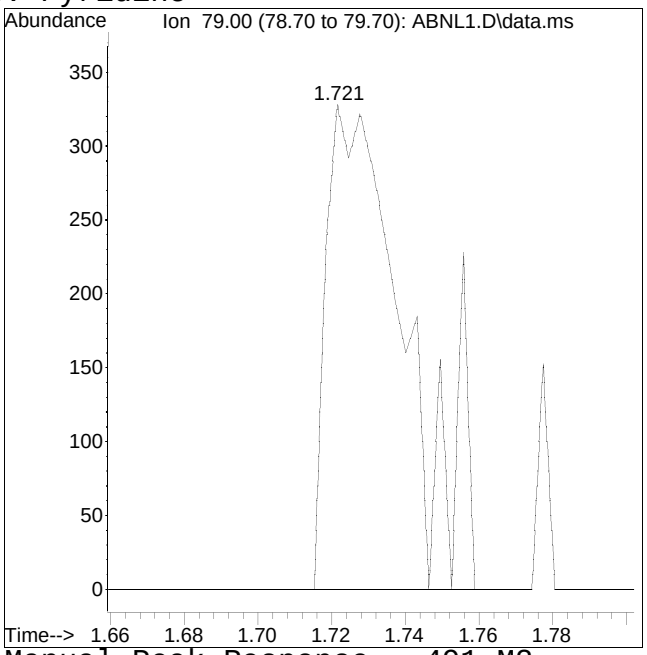
Manual Integration Report

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



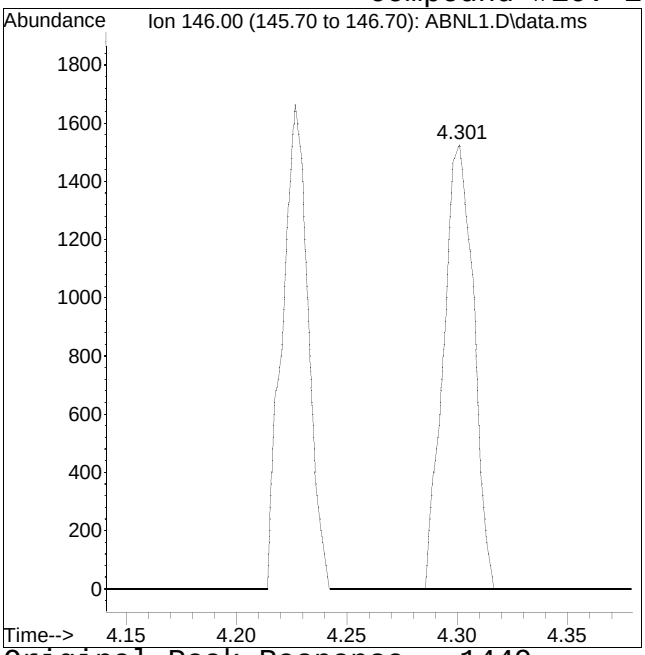
Manual Peak Response = 491 M2

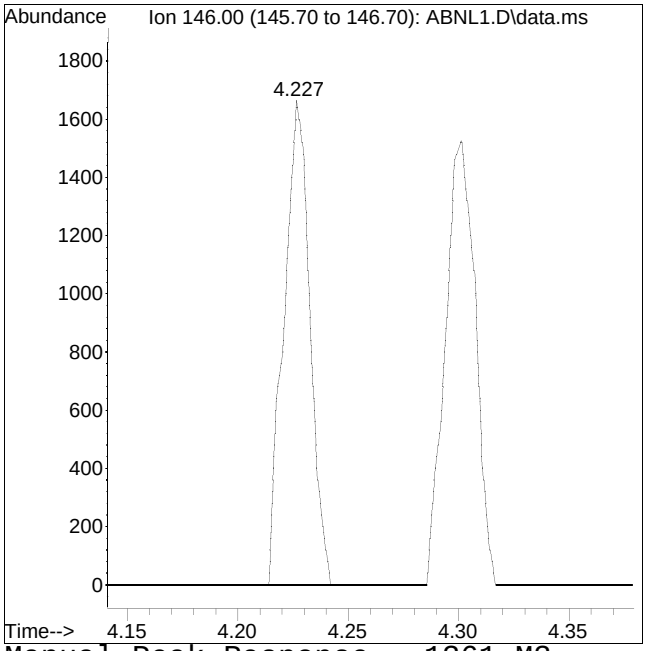
M2 = Peak not found by automatic integration algorithm.

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





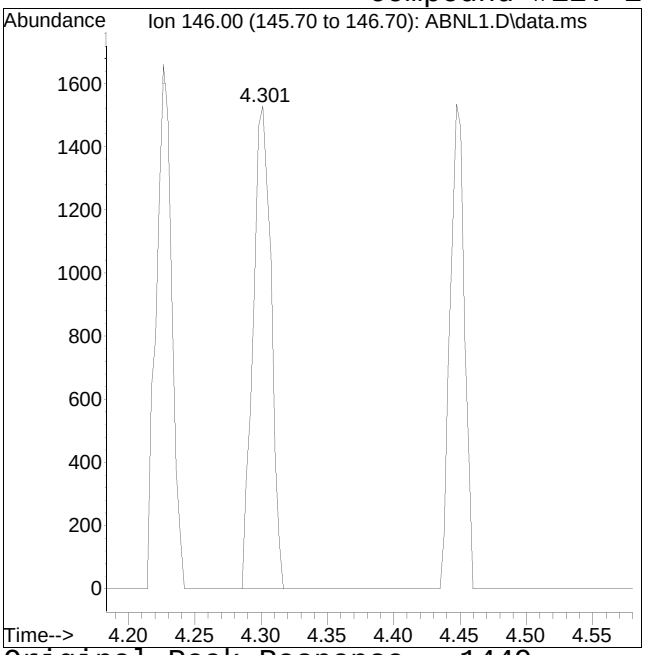
Original Peak Response = 1449 Manual Peak Response = 1361 M3

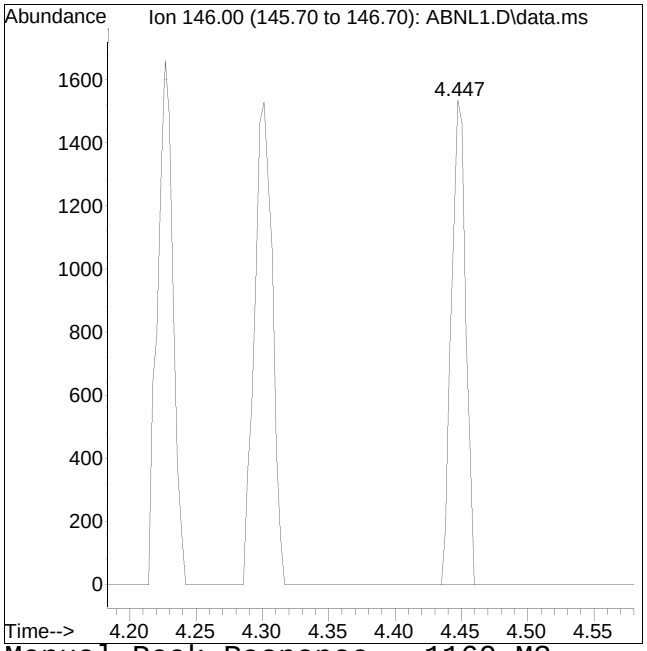
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

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





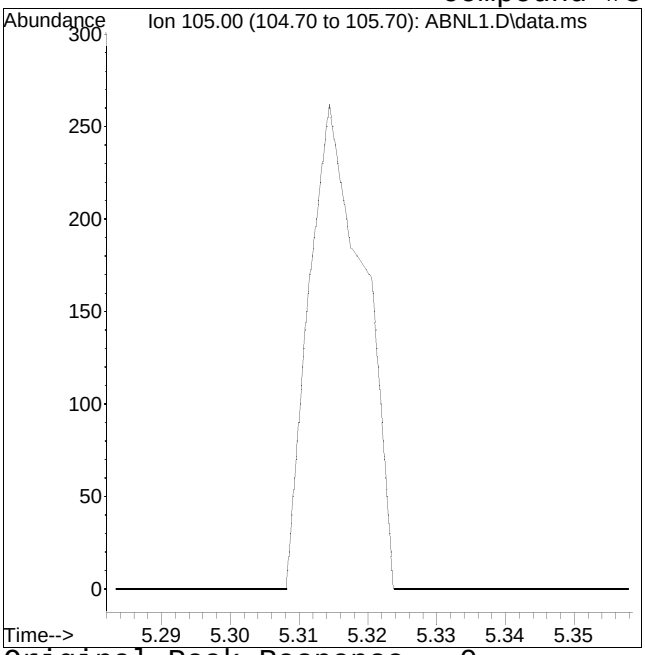
Original Peak Response = 1449 Manual Peak Response = 1160 M3

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.

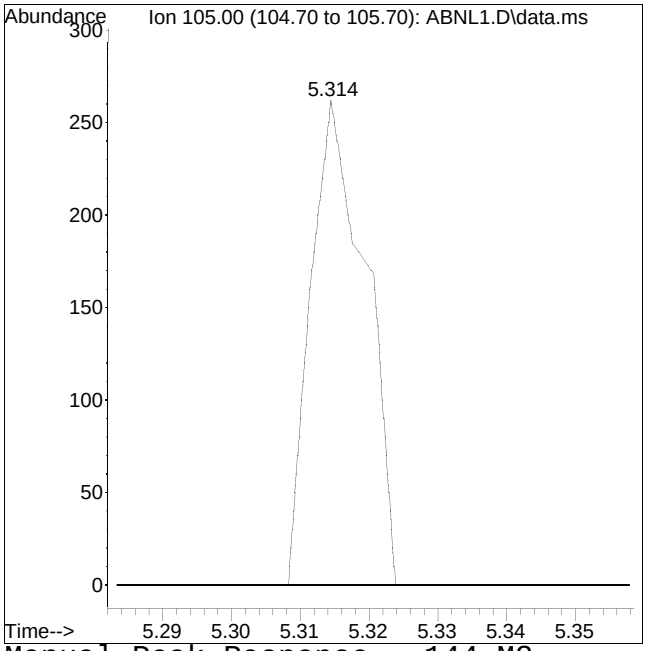
Manual Integration Report

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

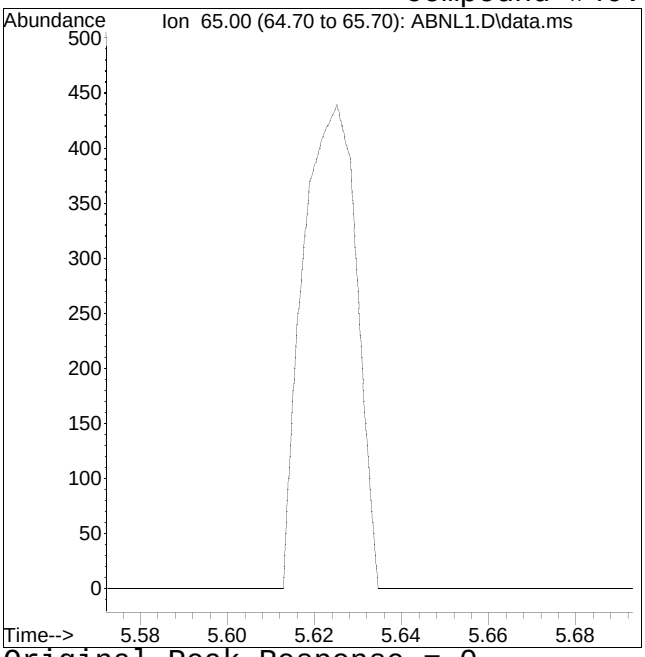
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

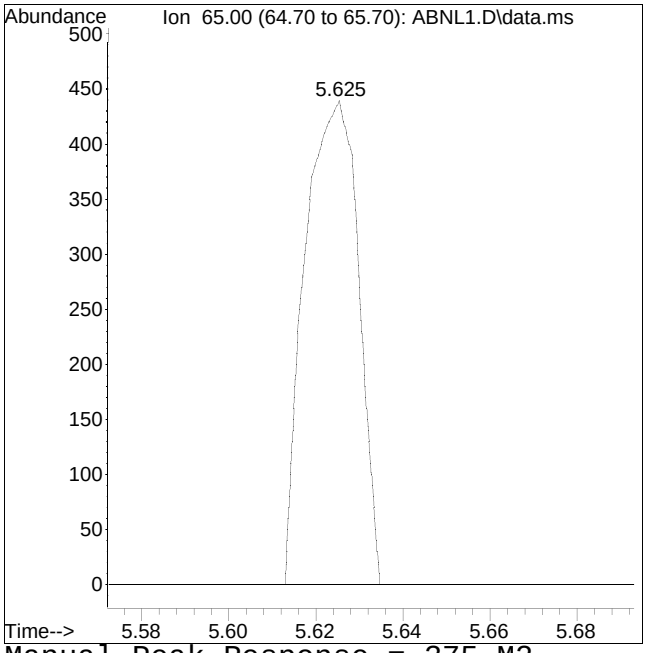
Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ABNL1.D
Date Inj'd : 11/5/2024 8:06 pm
Sample : IL10,32,,ABNL0.1 Lot# 1115

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



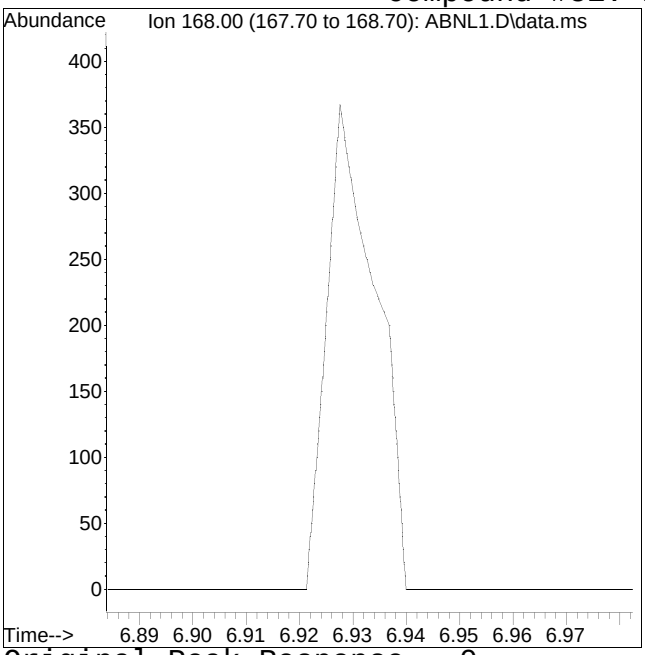
Manual Peak Response = 375 M2

M2 = Peak not found by automatic integration algorithm.

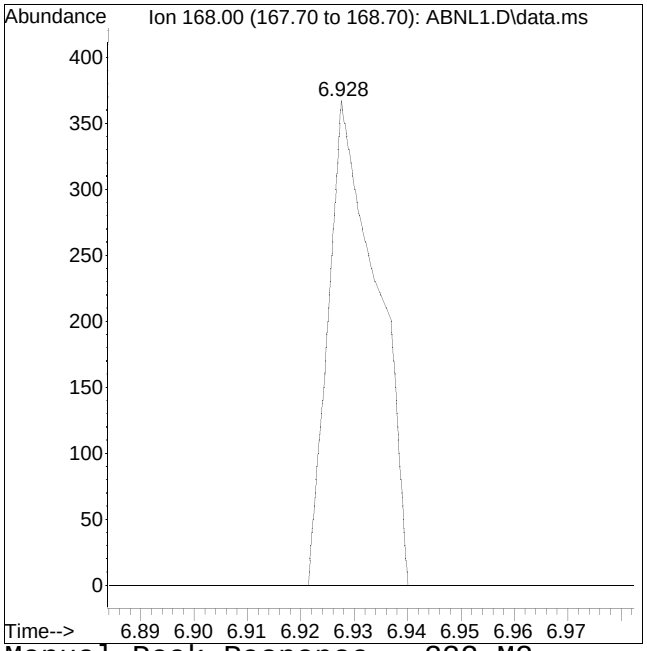
Manual Integration Report

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



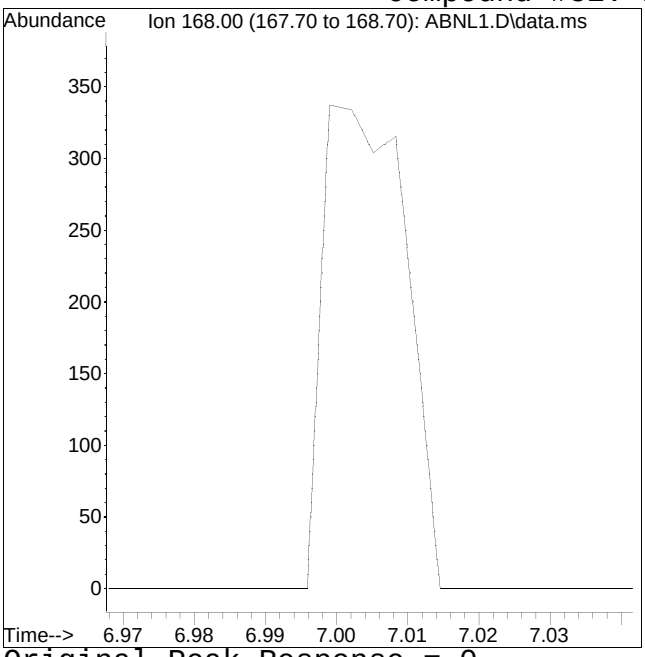
Manual Peak Response = 232 M2

M2 = Peak not found by automatic integration algorithm.

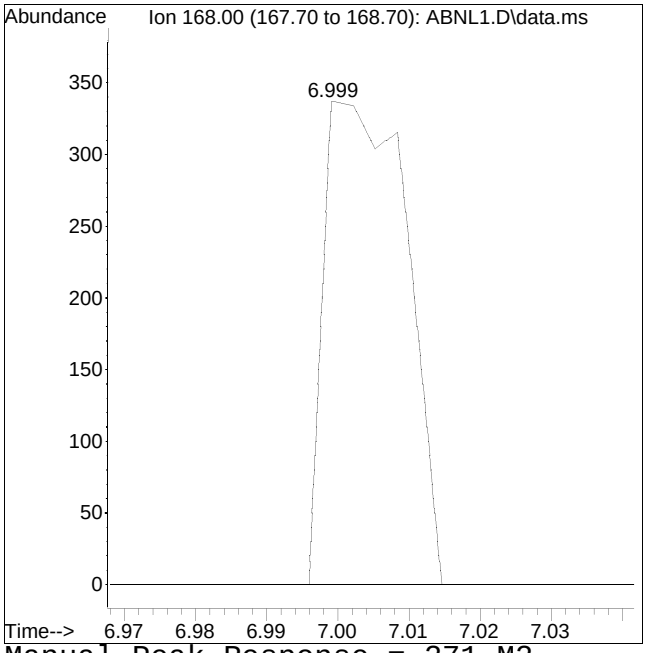
Manual Integration Report

Data Path : I:\8270\Dakota\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 #52: 1,3-Dinitrobenzene



Original Peak Response = 0



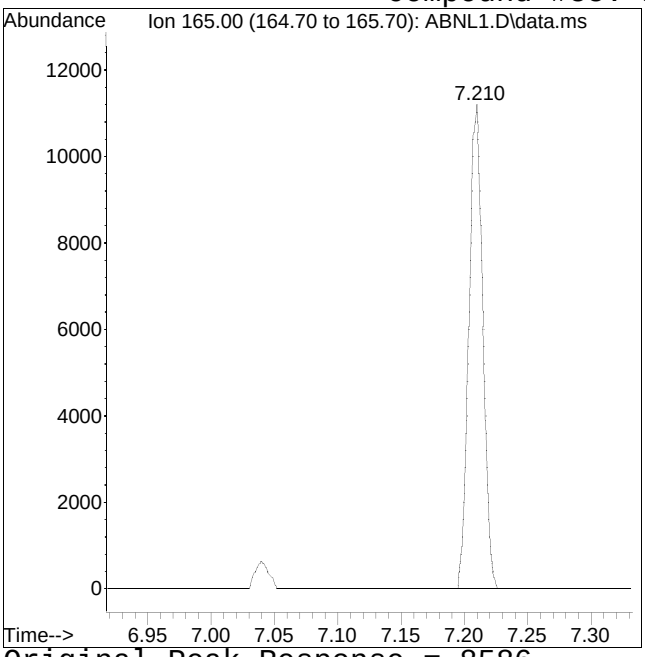
Manual Peak Response = 271 M2

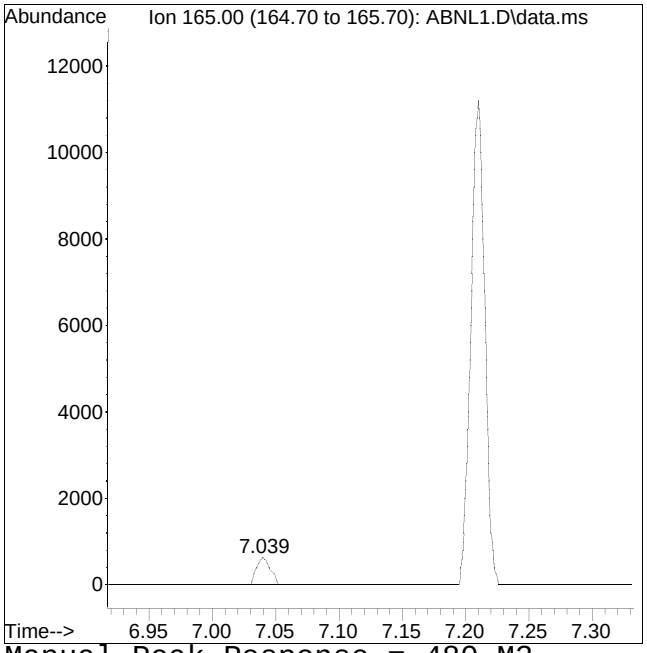
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\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 #55: 2,6-Dinitrotoluene





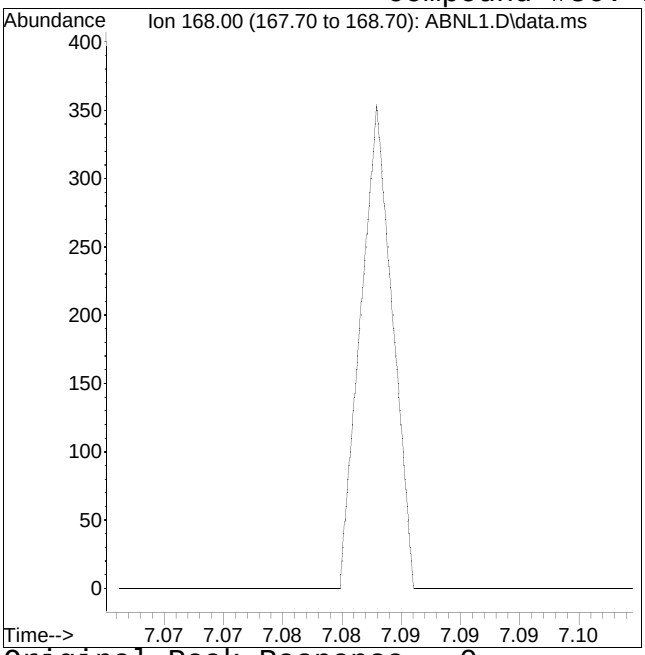
Original Peak Response = 8586 Manual Peak Response = 480 M3

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.

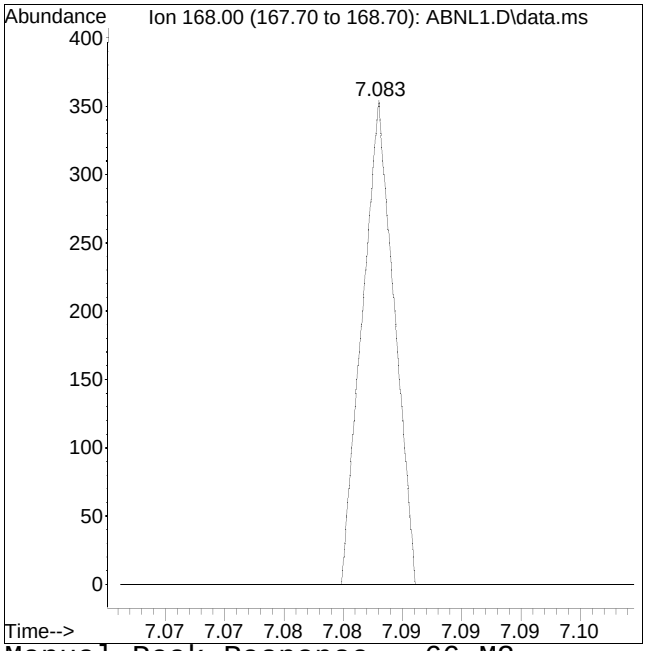
Manual Integration Report

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

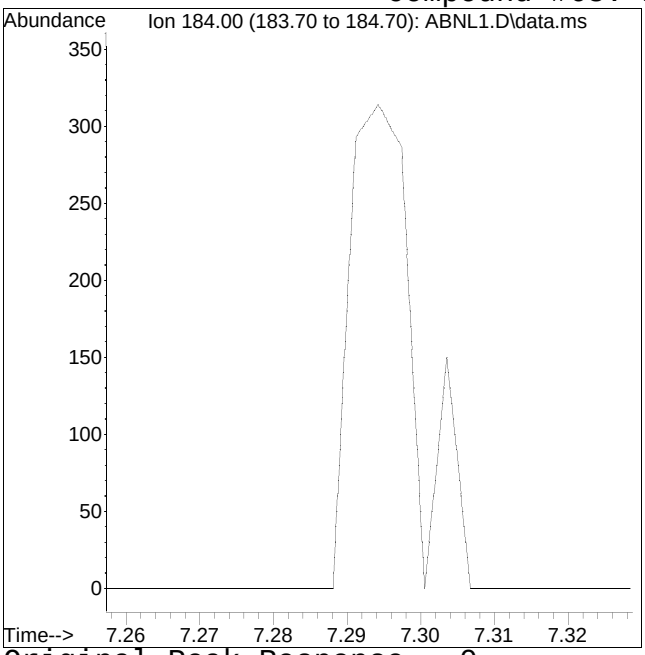
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

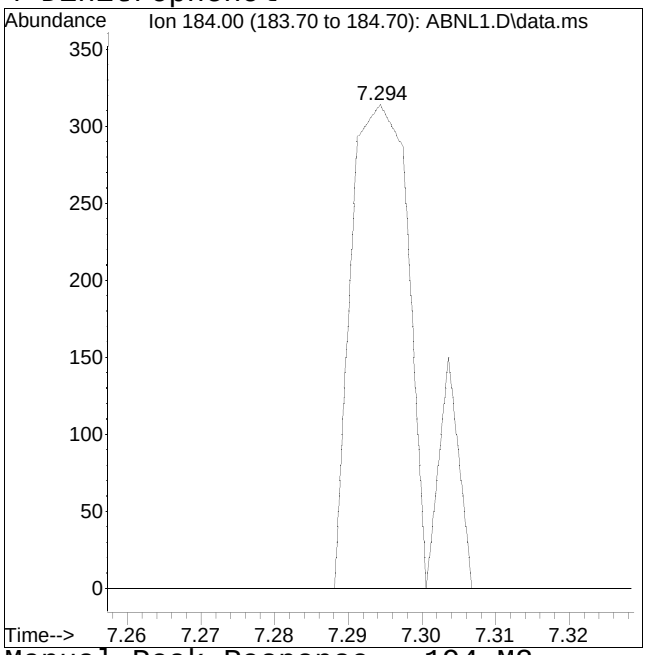
Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ABNL1.D
Date Inj'd : 11/5/2024 8:06 pm
Sample : IL10,32,,ABNL0.1 Lot# 1115

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



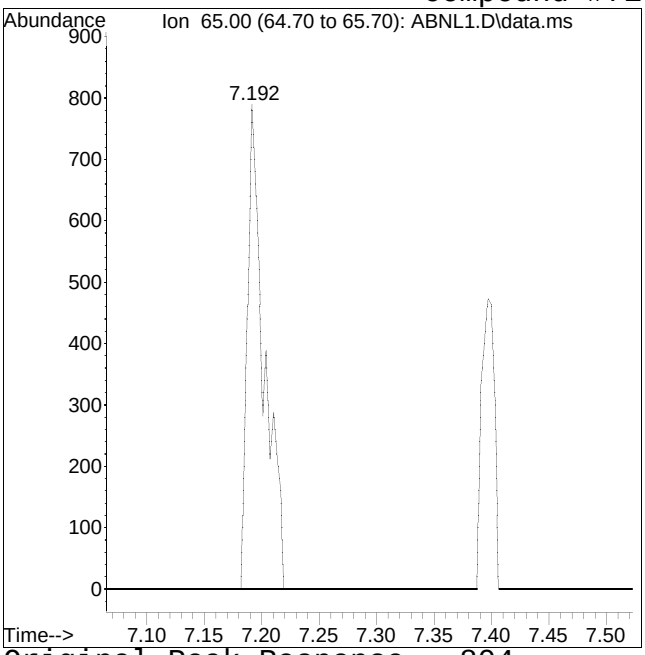
Manual Peak Response = 194 M2

M2 = Peak not found by automatic integration algorithm.

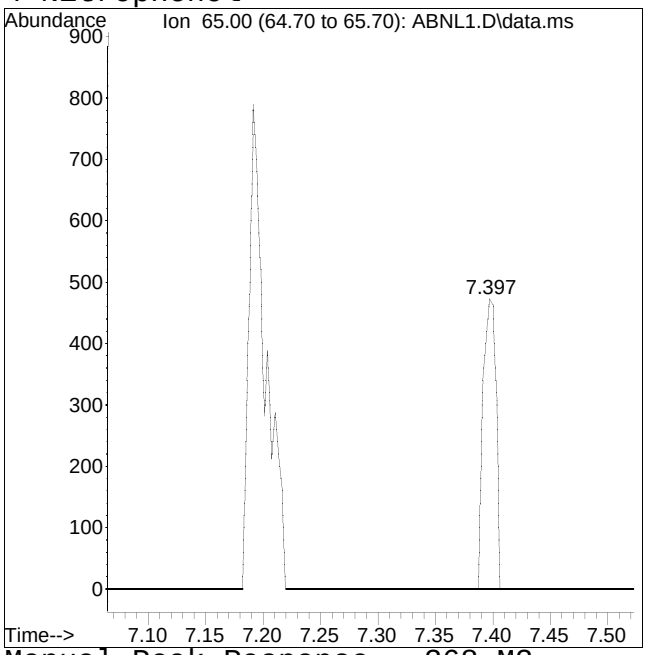
Manual Integration Report

Data Path : I:\8270\Dakota\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 #71: 4-Nitrophenol



Original Peak Response = 804



Manual Peak Response = 368 M3

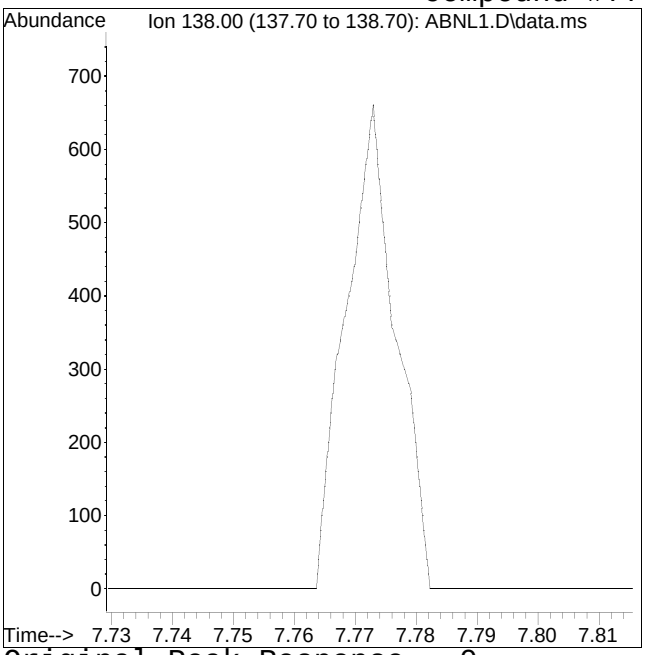
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

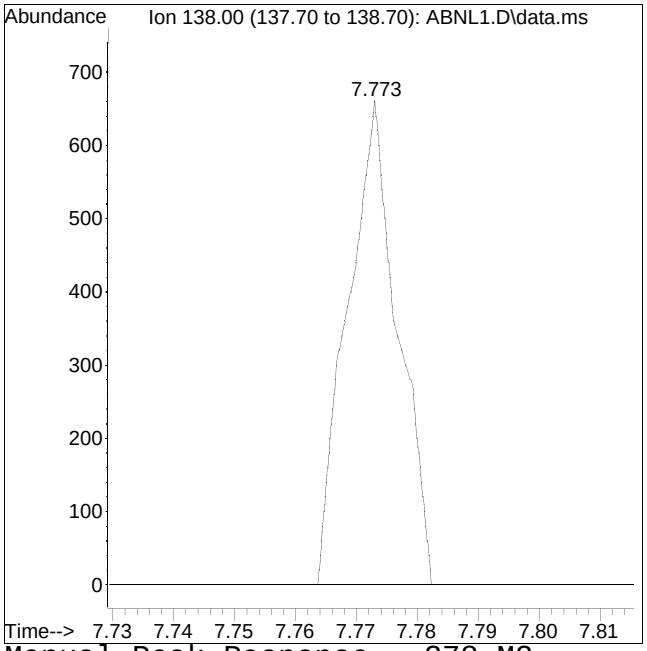
Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ABNL1.D
Date Inj'd : 11/5/2024 8:06 pm
Sample : IL10,32,,ABNL0.1 Lot# 1115

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



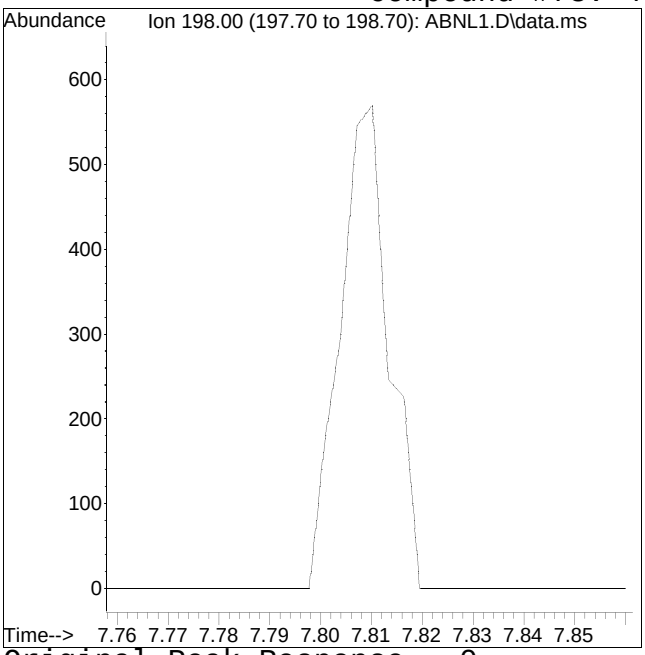
Manual Peak Response = 378 M2

M2 = Peak not found by automatic integration algorithm.

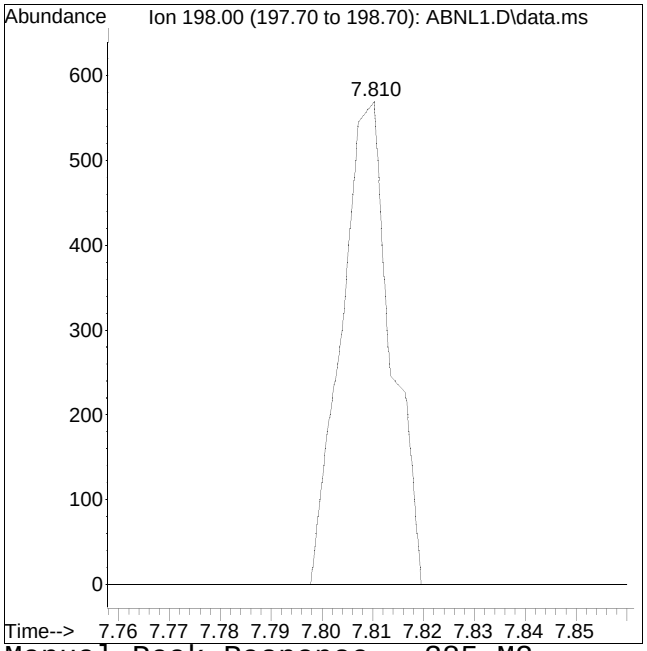
Manual Integration Report

Data Path : I:\8270\Dakota\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 #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

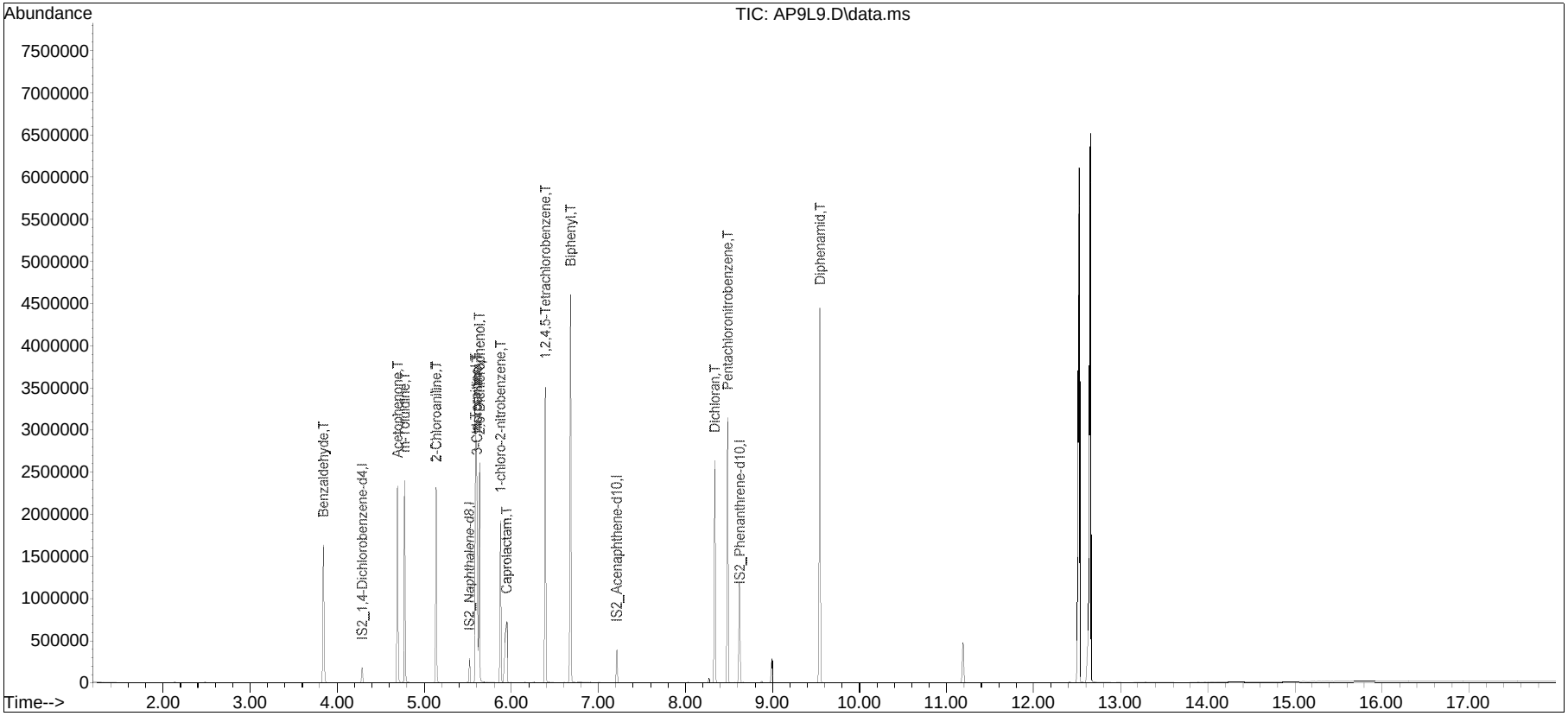
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

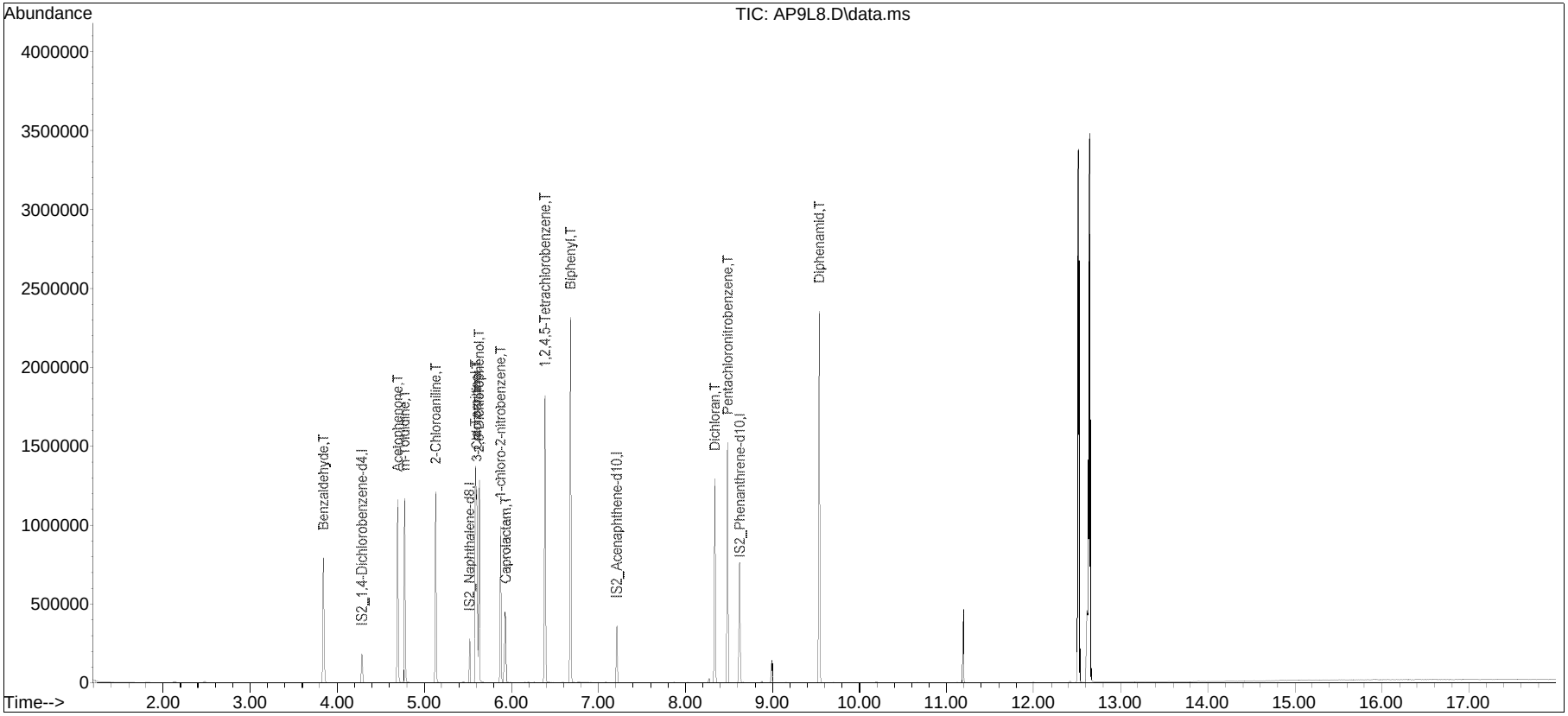
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

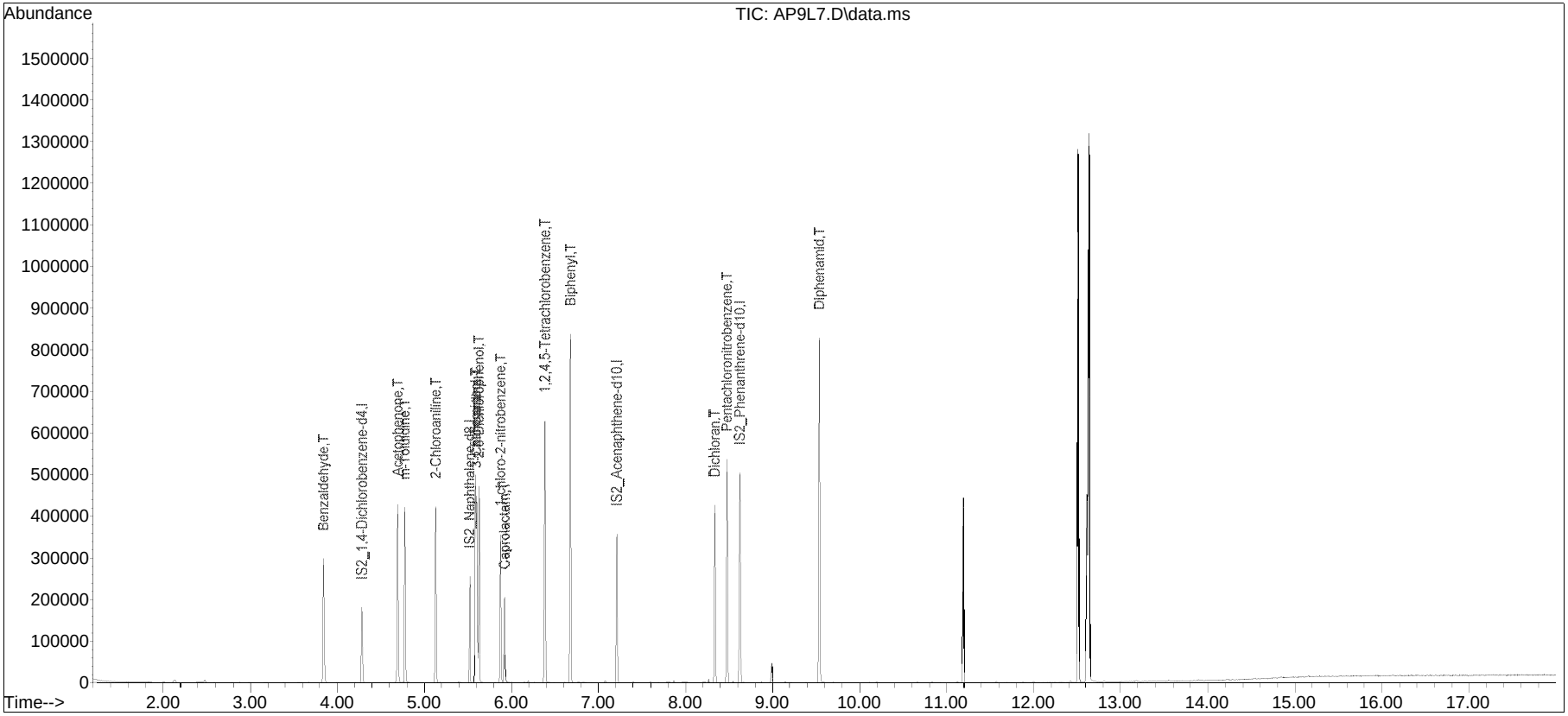
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

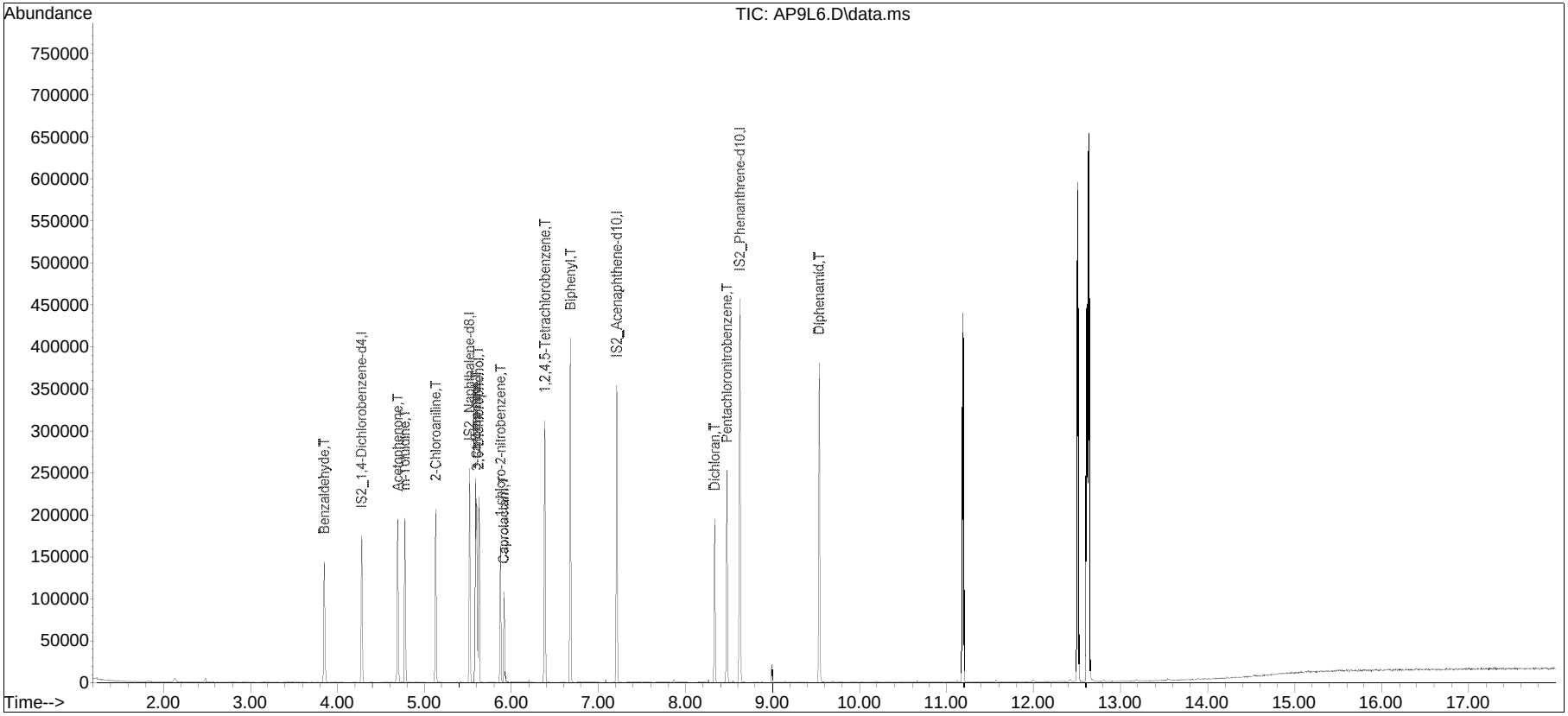
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

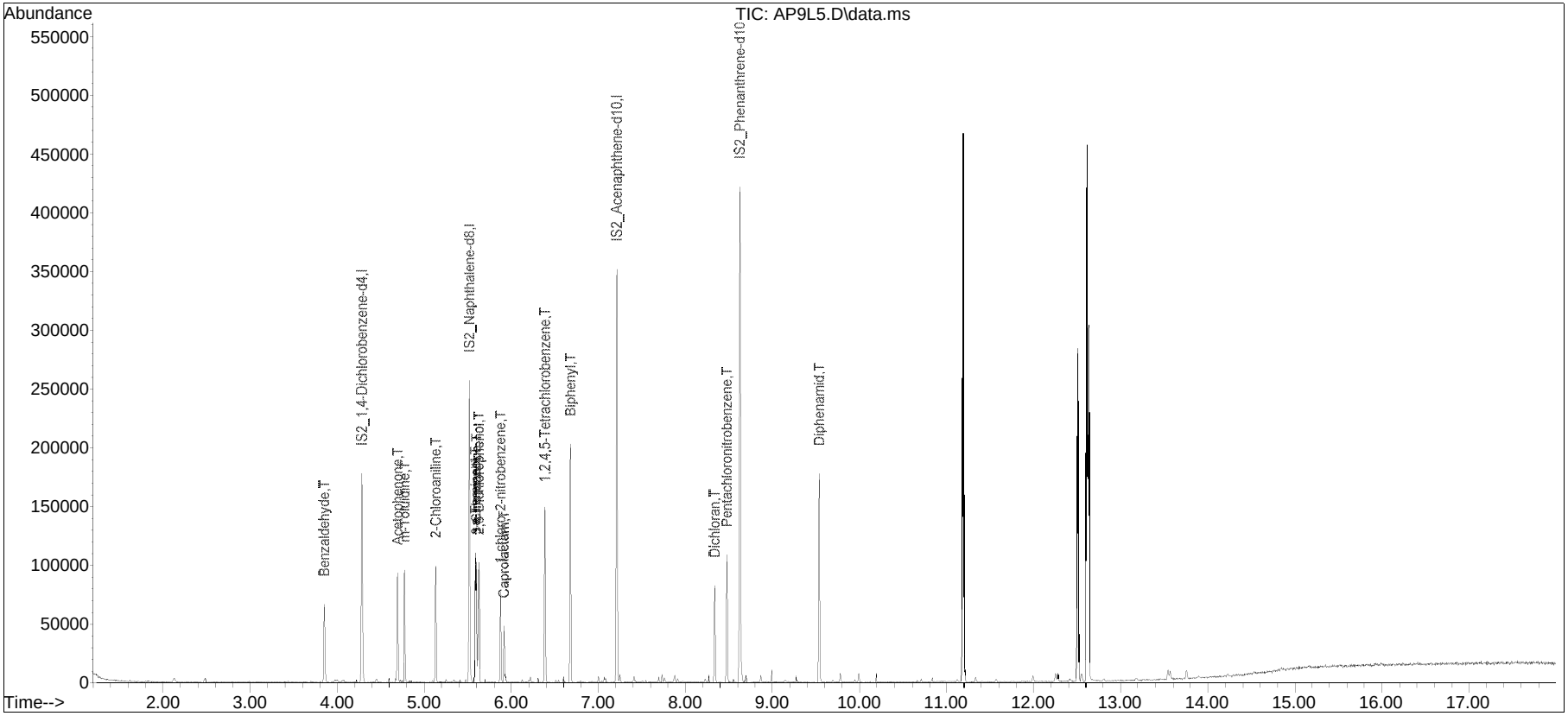
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

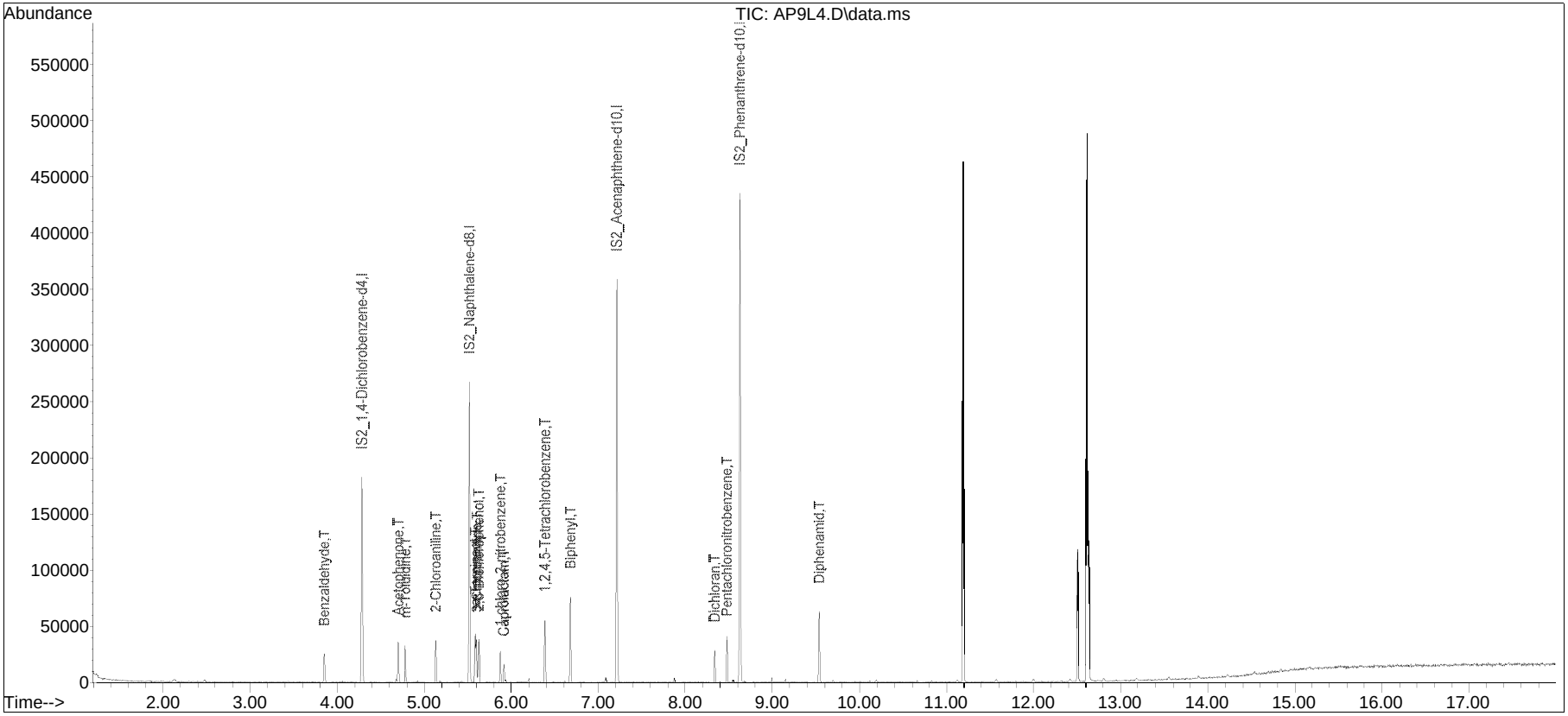
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

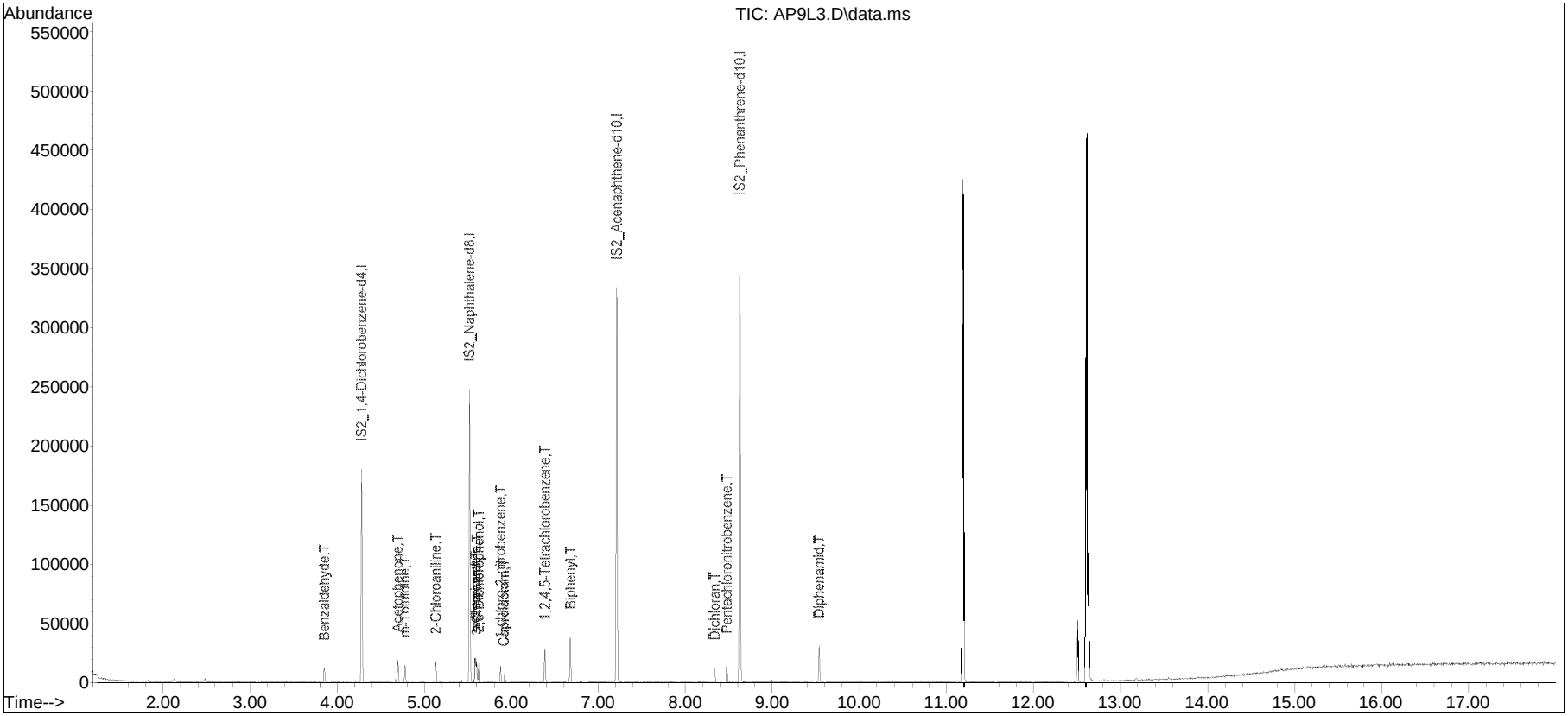
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

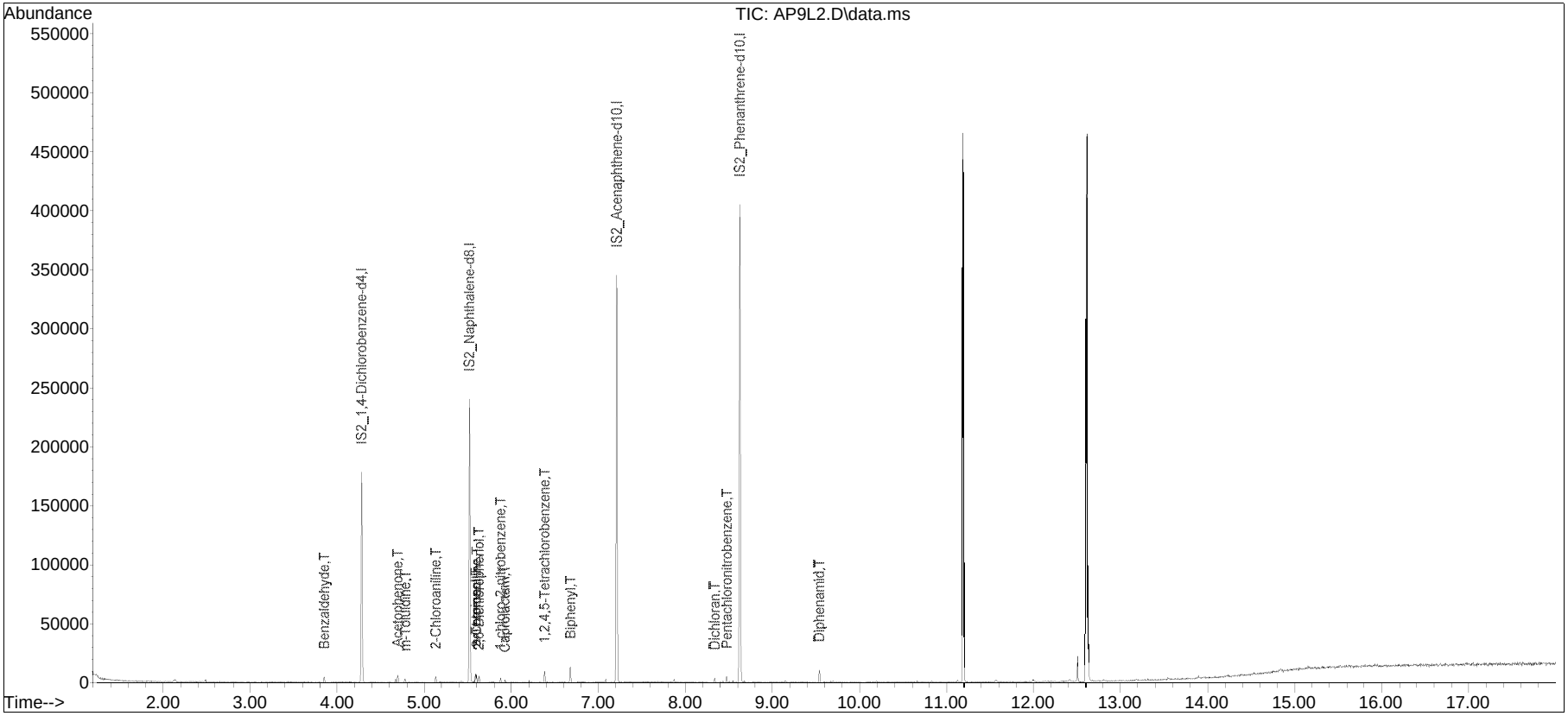
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

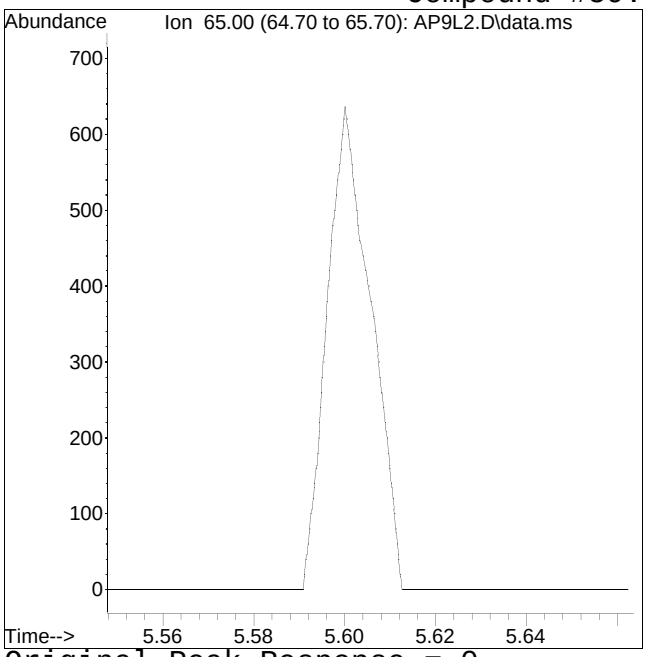
Sub List : AP9ical - AP9 ical sublistVTICAL\AP9L6.D•



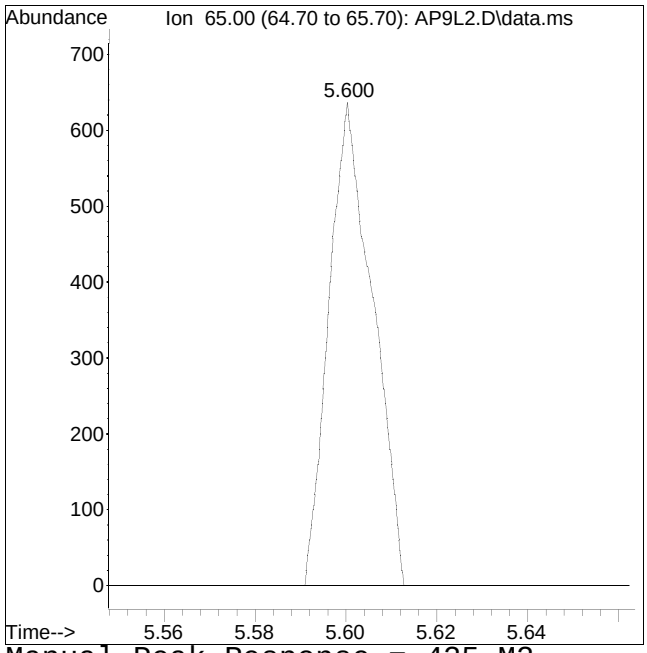
Manual Integration Report

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



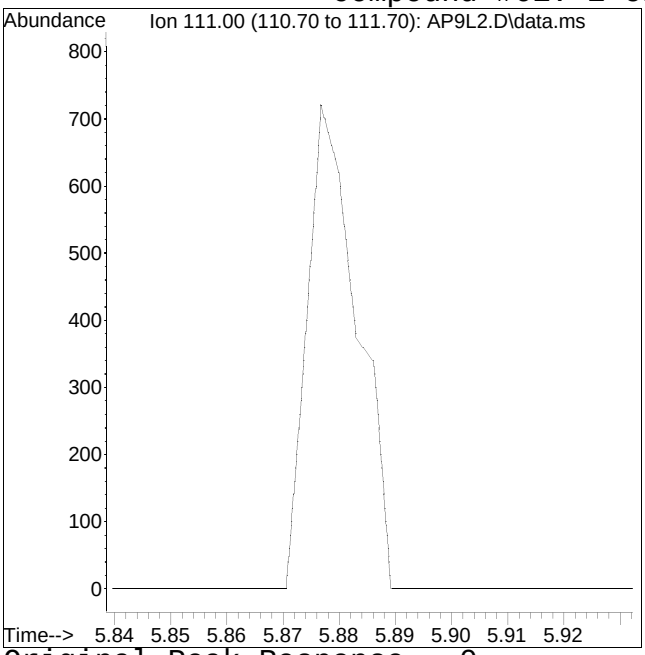
Manual Peak Response = 425 M2

M2 = Peak not found by automatic integration algorithm.

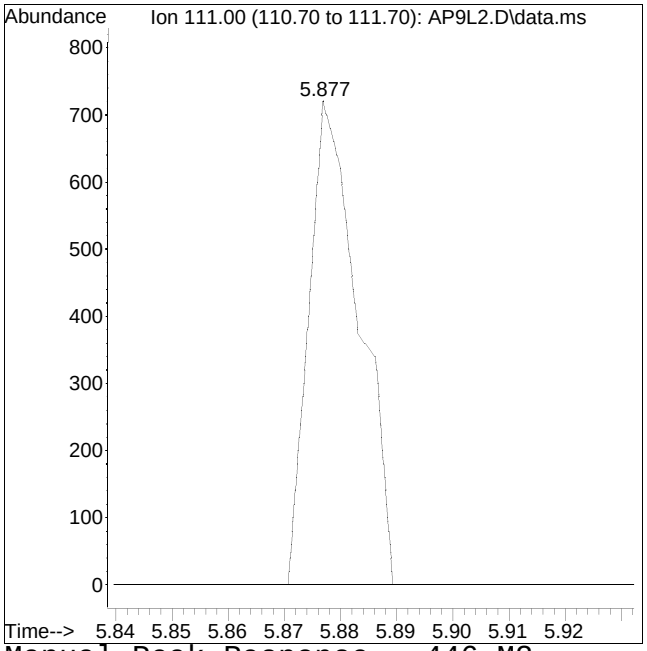
Manual Integration Report

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



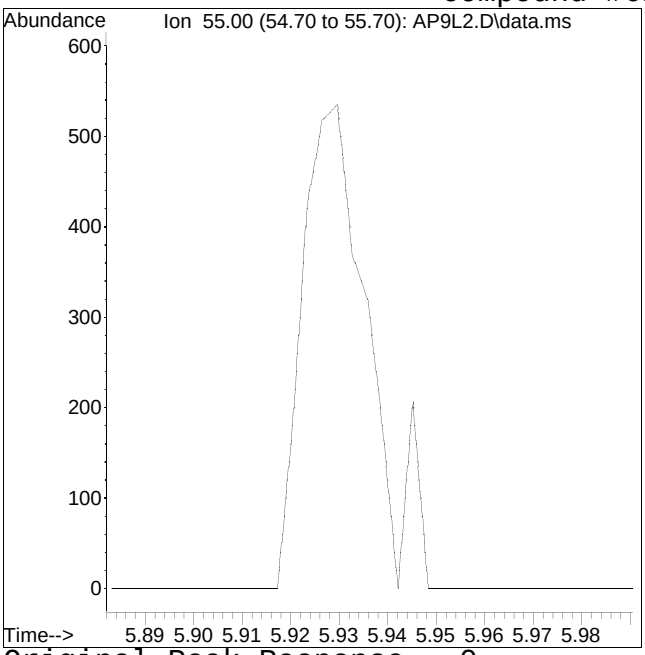
Manual Peak Response = 446 M2

M2 = Peak not found by automatic integration algorithm.

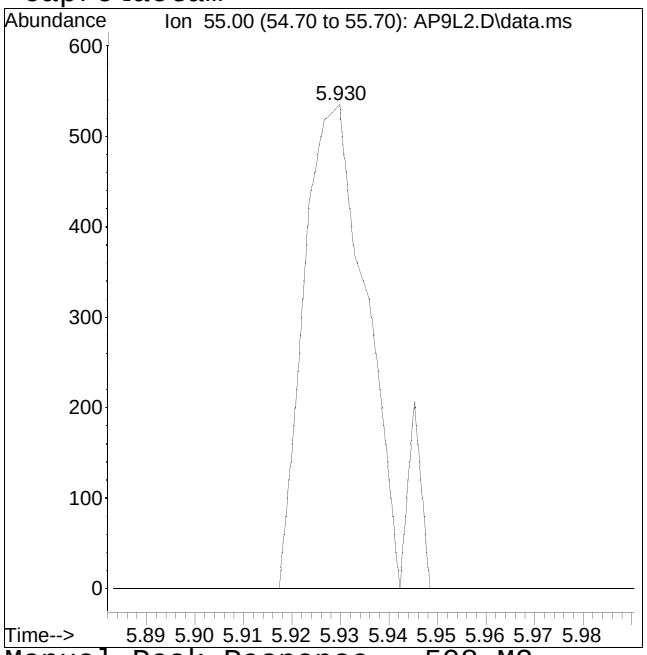
Manual Integration Report

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



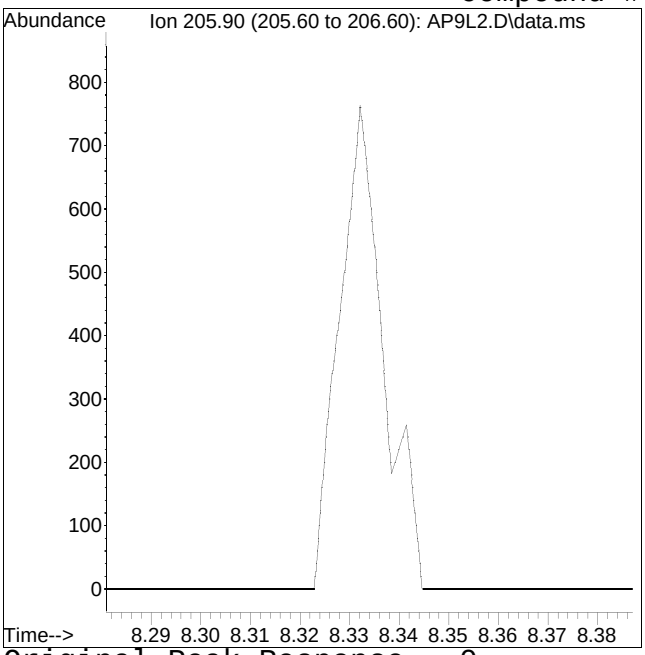
Manual Peak Response = 508 M2

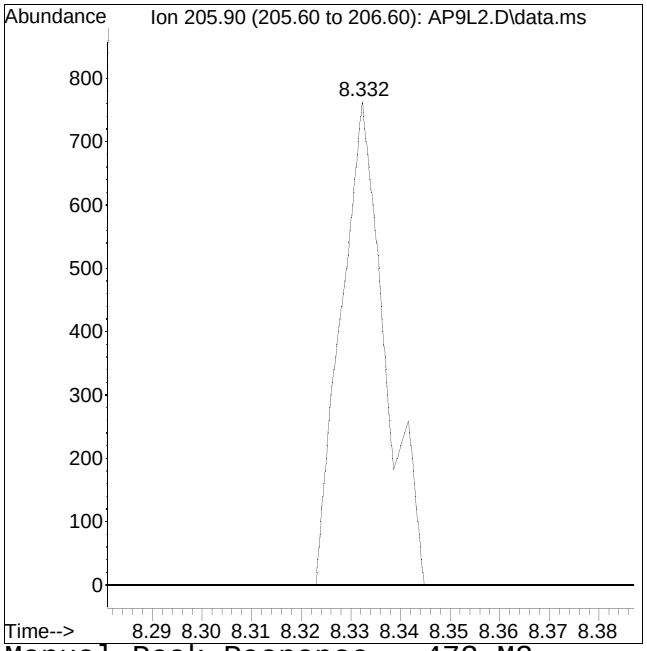
M2 = Peak not found by automatic integration algorithm.

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



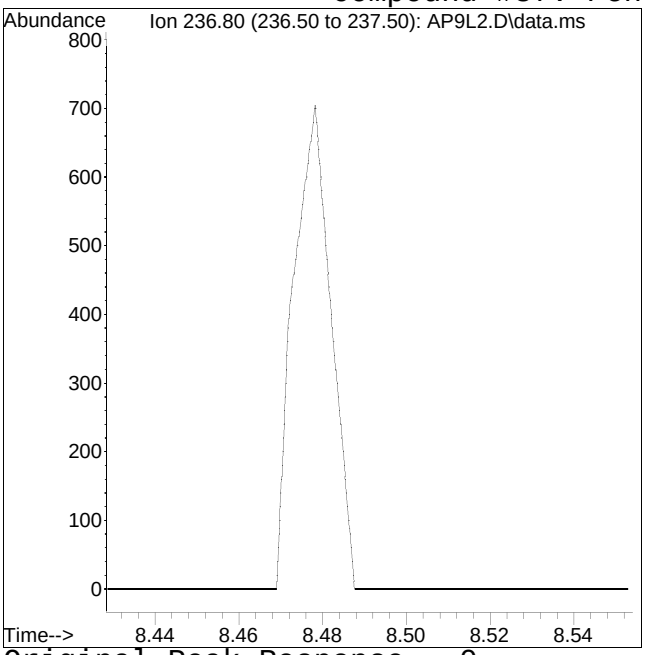


Original Peak Response = 0
Manual Peak Response = 473 M2
M2 = Peak not found by automatic integration algorithm.

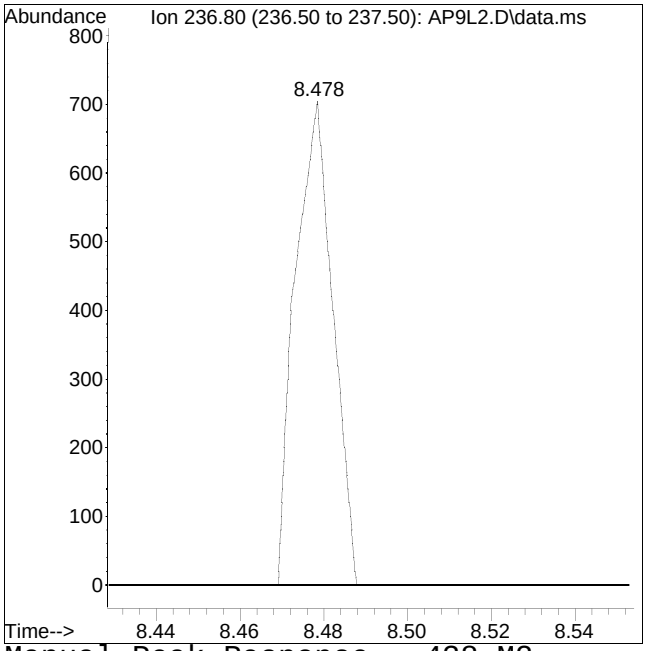
Manual Integration Report

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

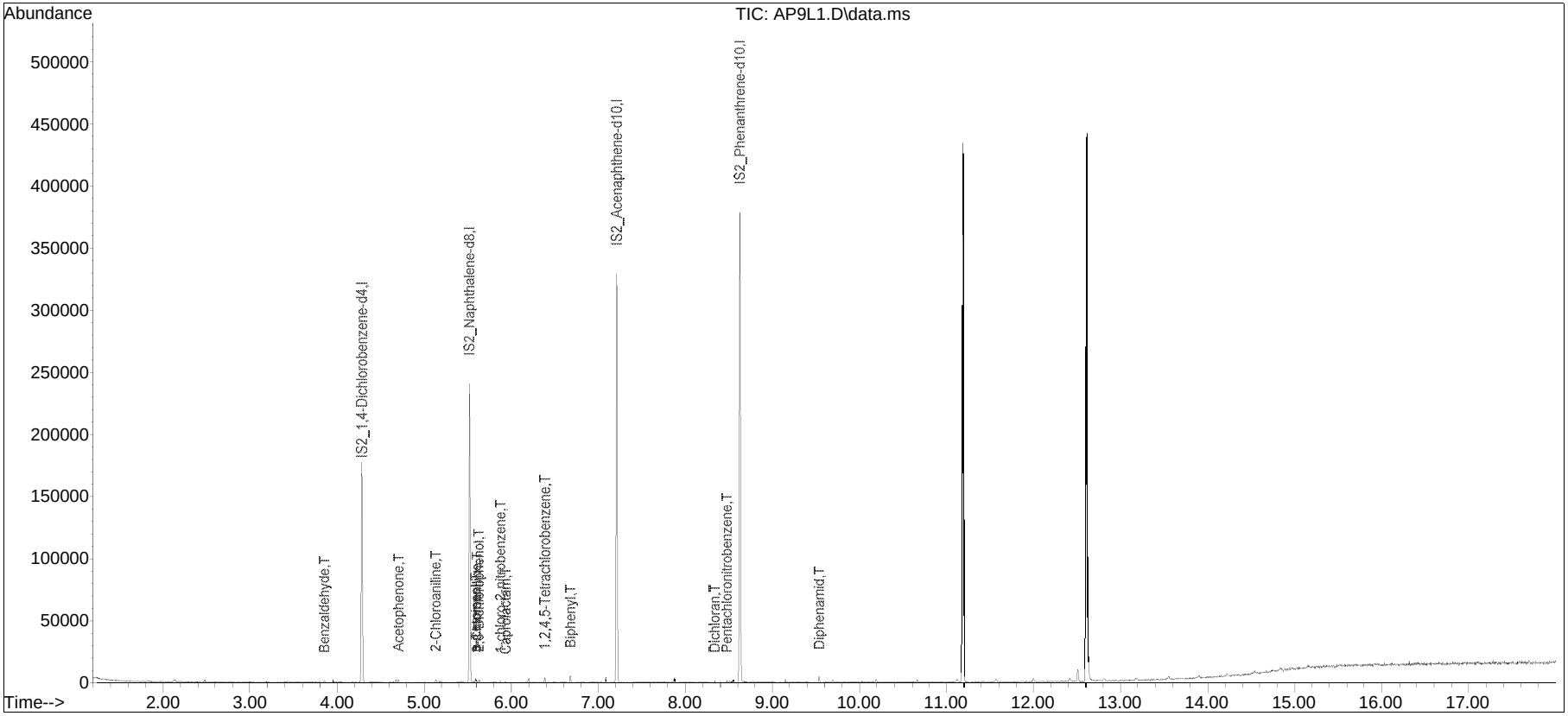
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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•

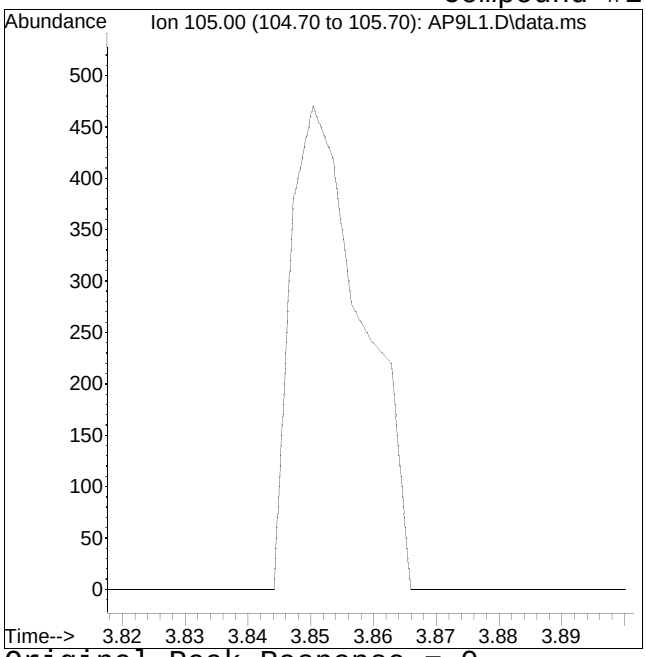


FS241105RVT_Dakota.m Tue Nov 12 12:25:40 2024 Page: 2

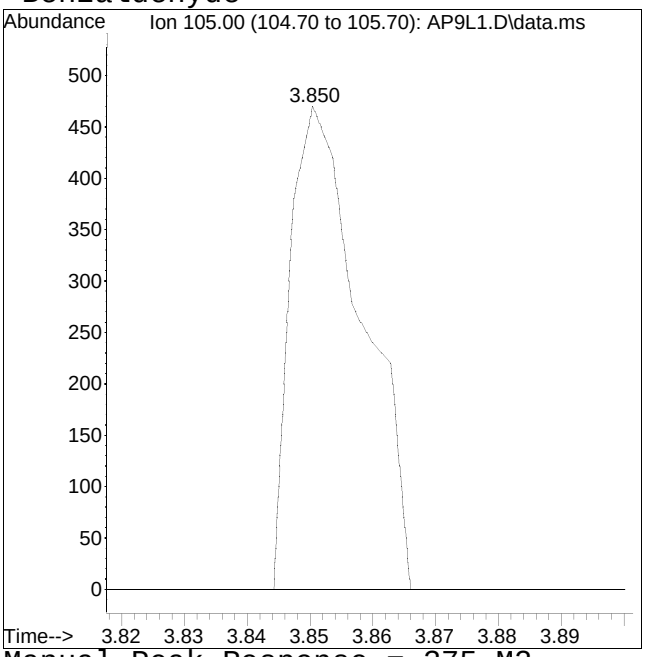
Manual Integration Report

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



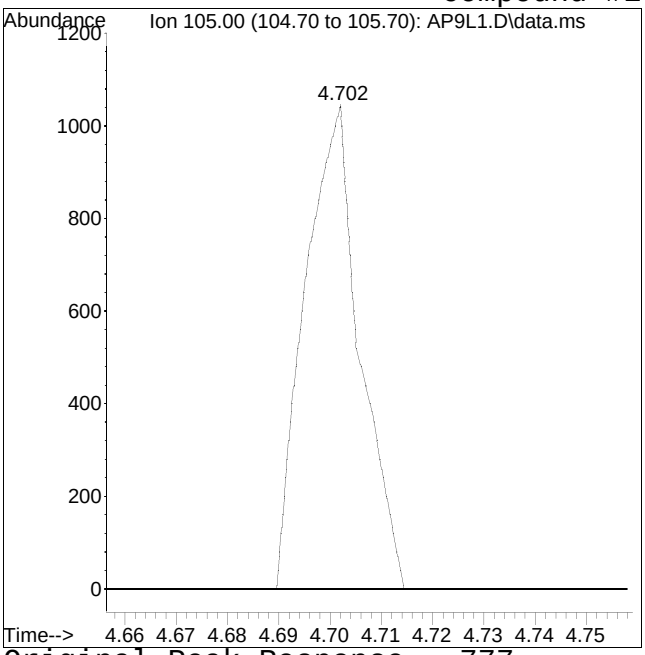
Manual Peak Response = 375 M2

M2 = Peak not found by automatic integration algorithm.

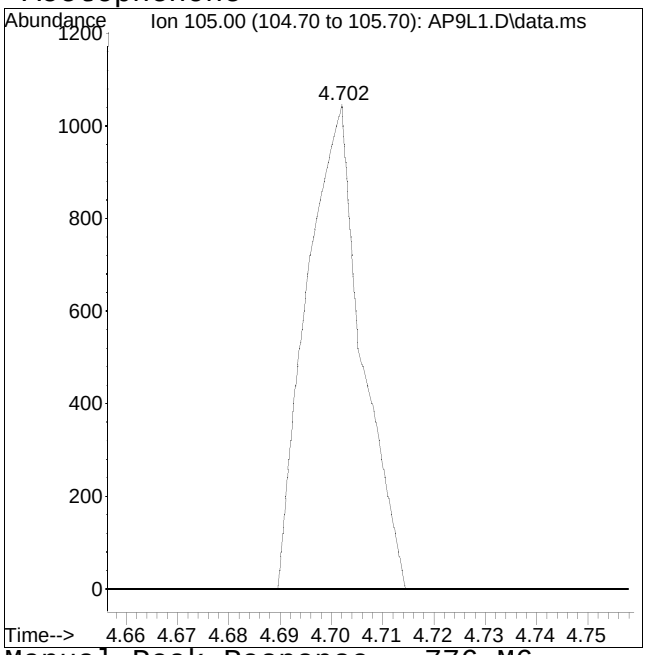
Manual Integration Report

Data Path : I:\8270\Dakota\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 #29: Acetophenone



Original Peak Response = 777



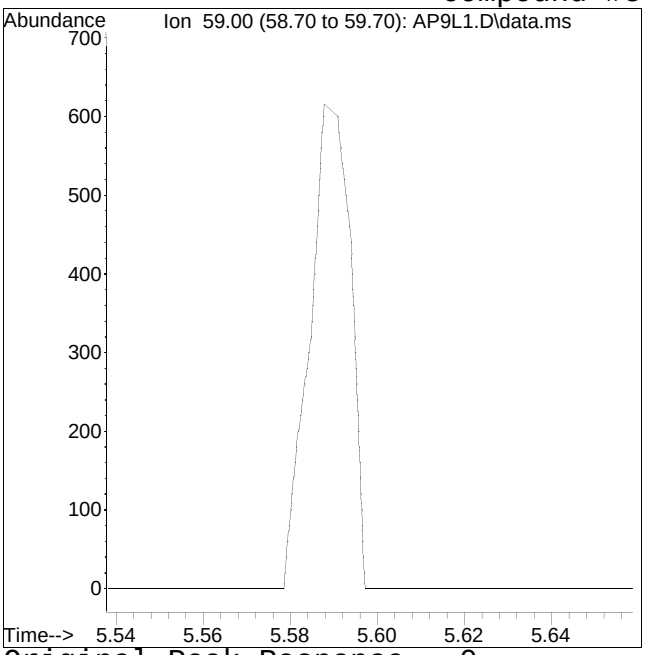
Manual Peak Response = 776 M6

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

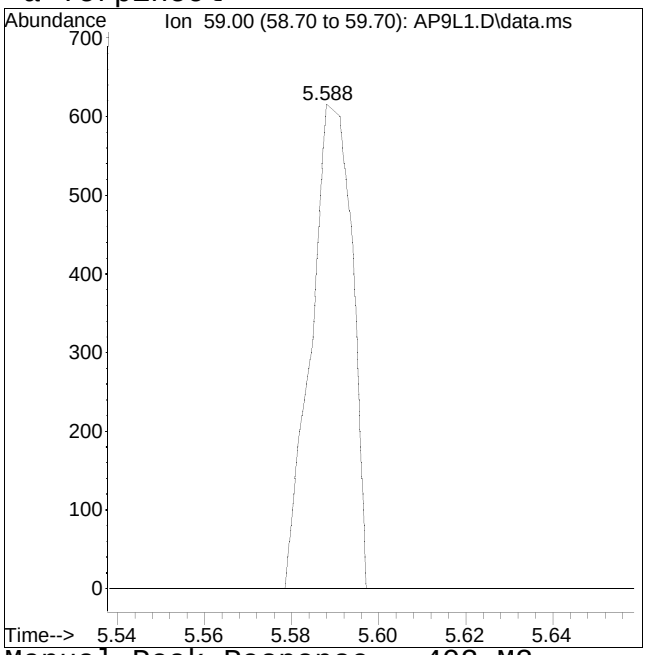
Manual Integration Report

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



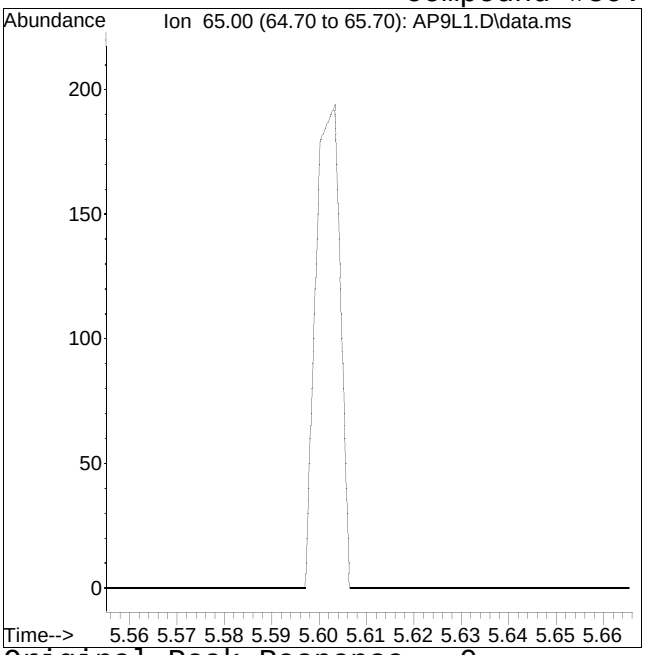
Manual Peak Response = 402 M2

M2 = Peak not found by automatic integration algorithm.

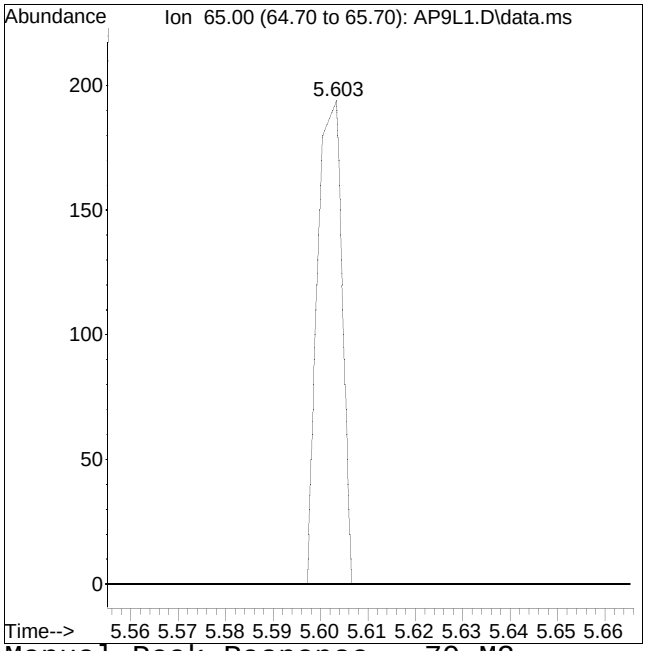
Manual Integration Report

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



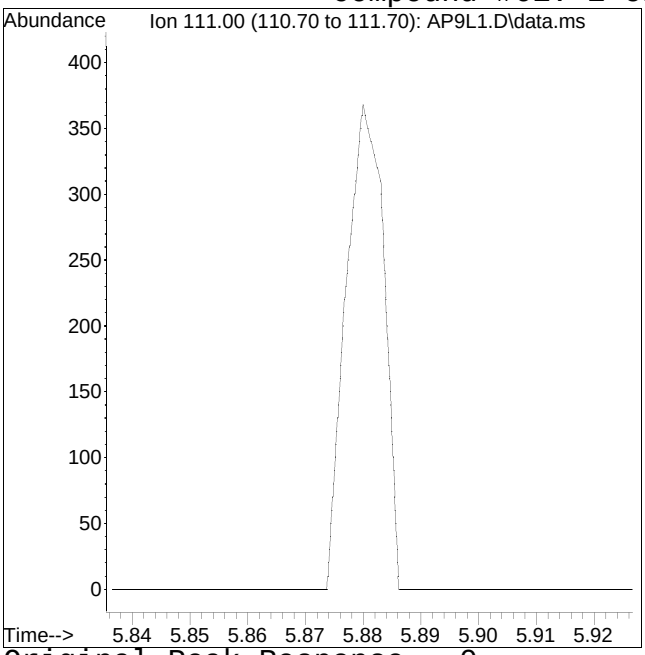
Manual Peak Response = 70 M2

M2 = Peak not found by automatic integration algorithm.

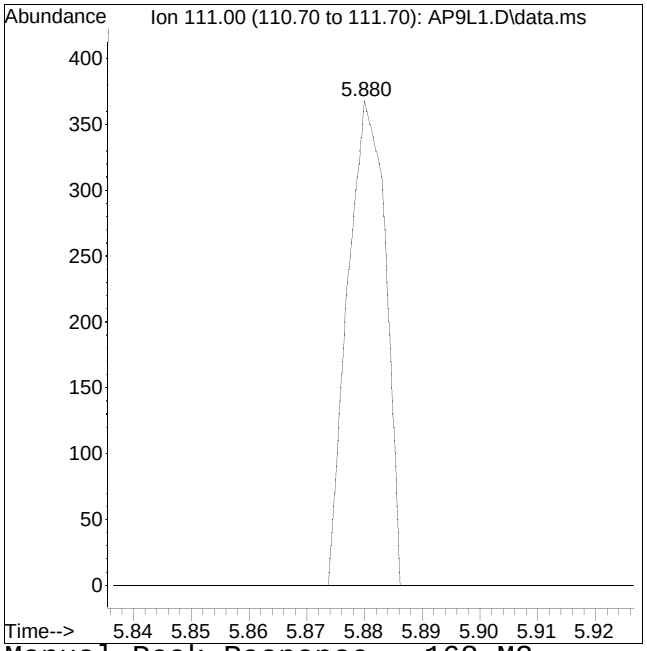
Manual Integration Report

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



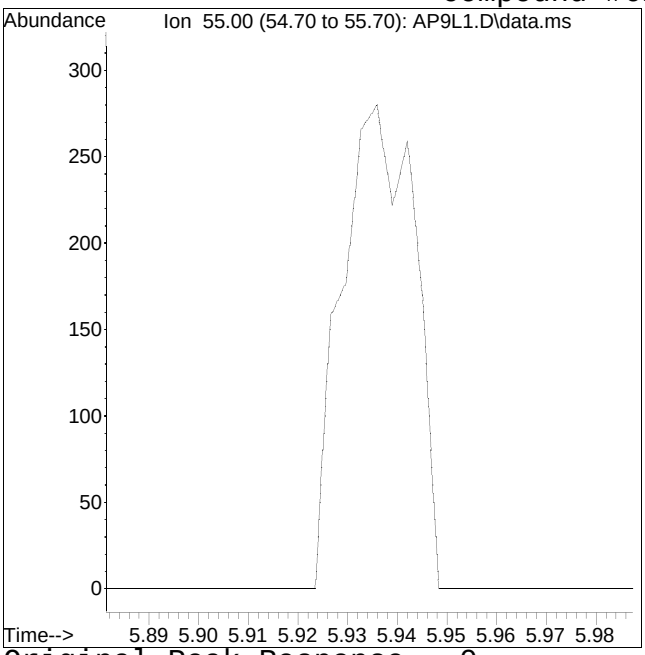
Manual Peak Response = 168 M2

M2 = Peak not found by automatic integration algorithm.

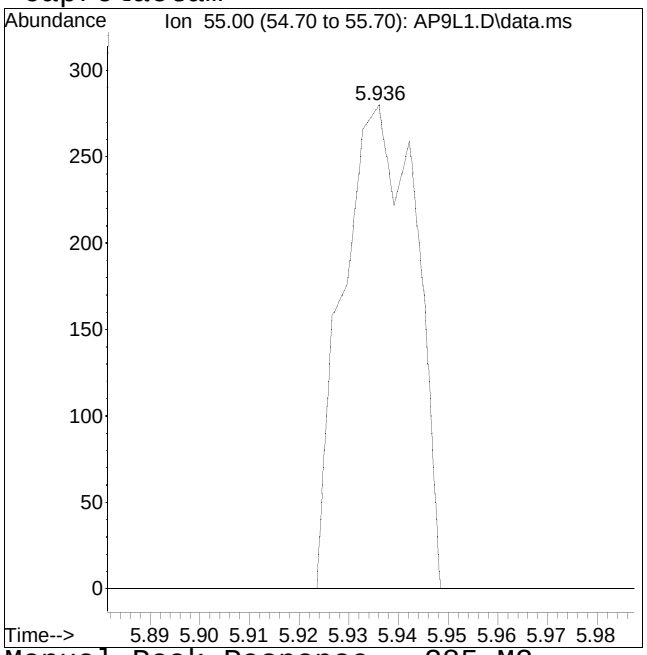
Manual Integration Report

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



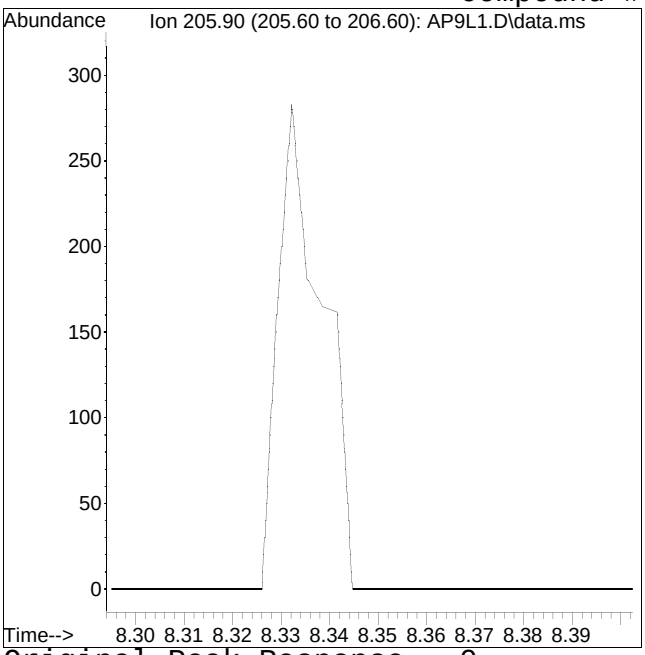
Manual Peak Response = 285 M2

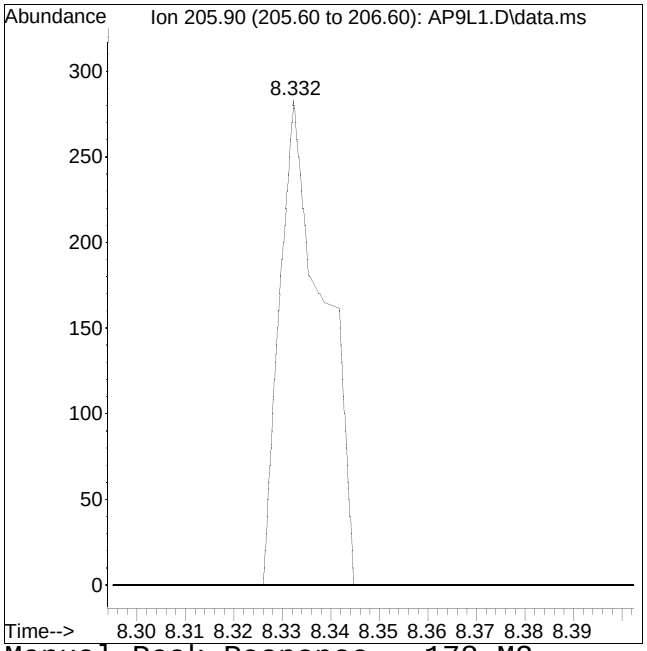
M2 = Peak not found by automatic integration algorithm.

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



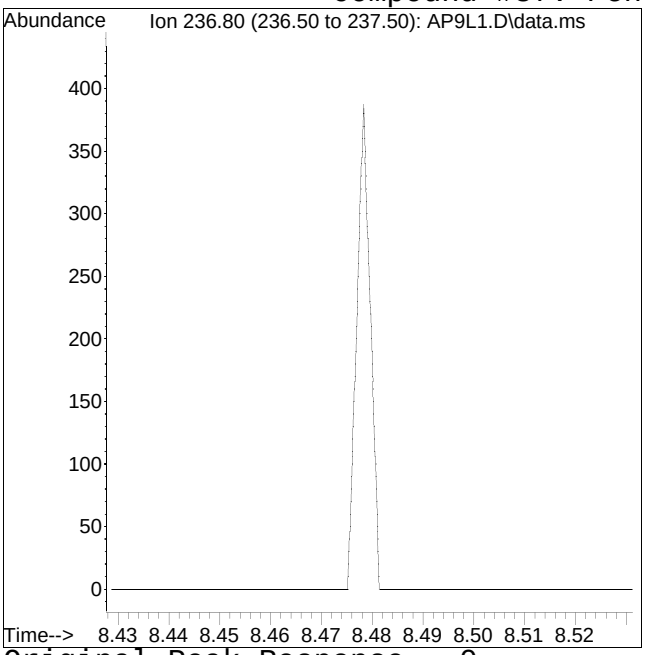


Original Peak Response = 0
Manual Peak Response = 178 M2
M2 = Peak not found by automatic integration algorithm.

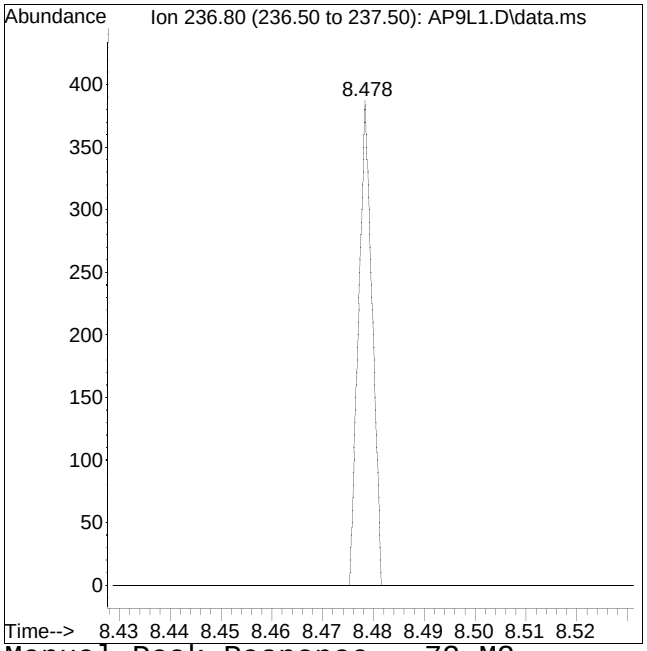
Manual Integration Report

Data Path : I:\8270\Dakota\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 #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

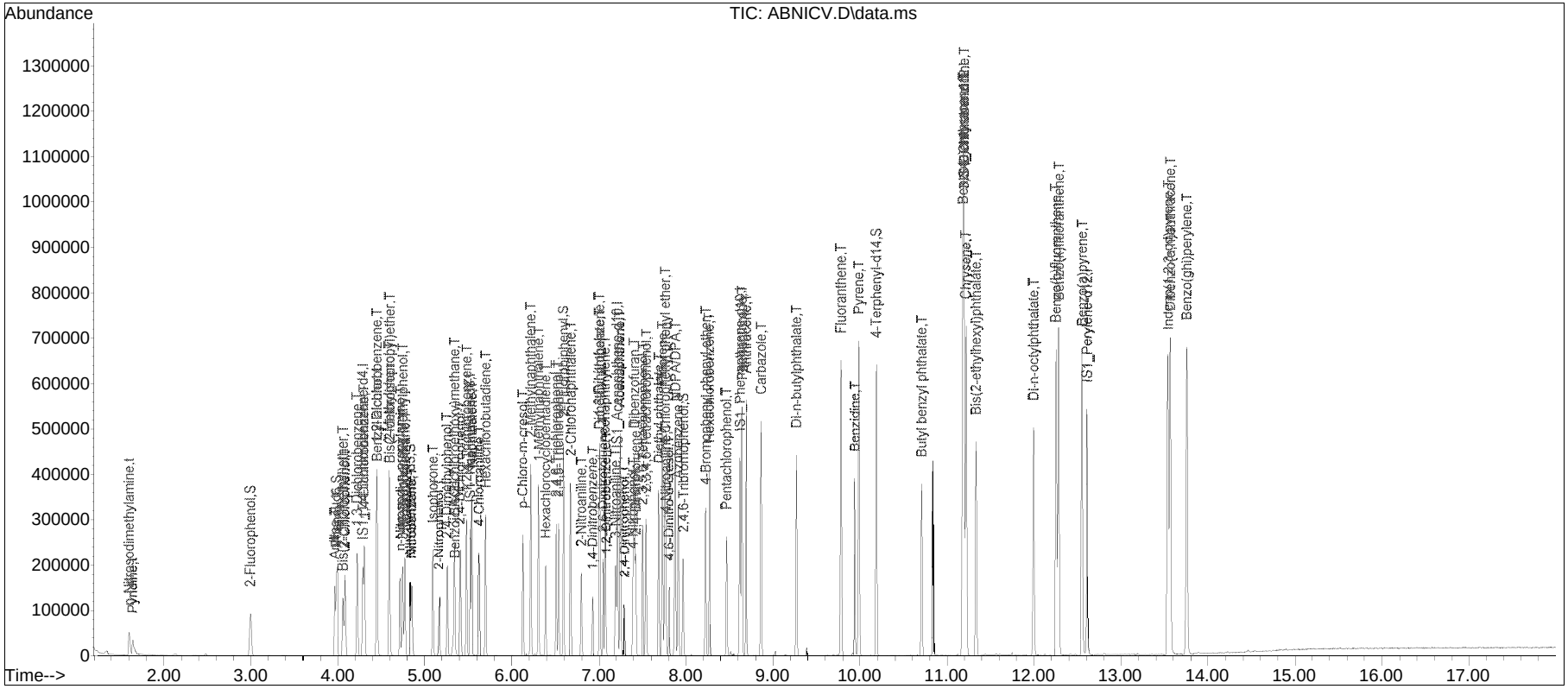
(#) = qualifier out of range (m) = manual integration (+) = signals summed

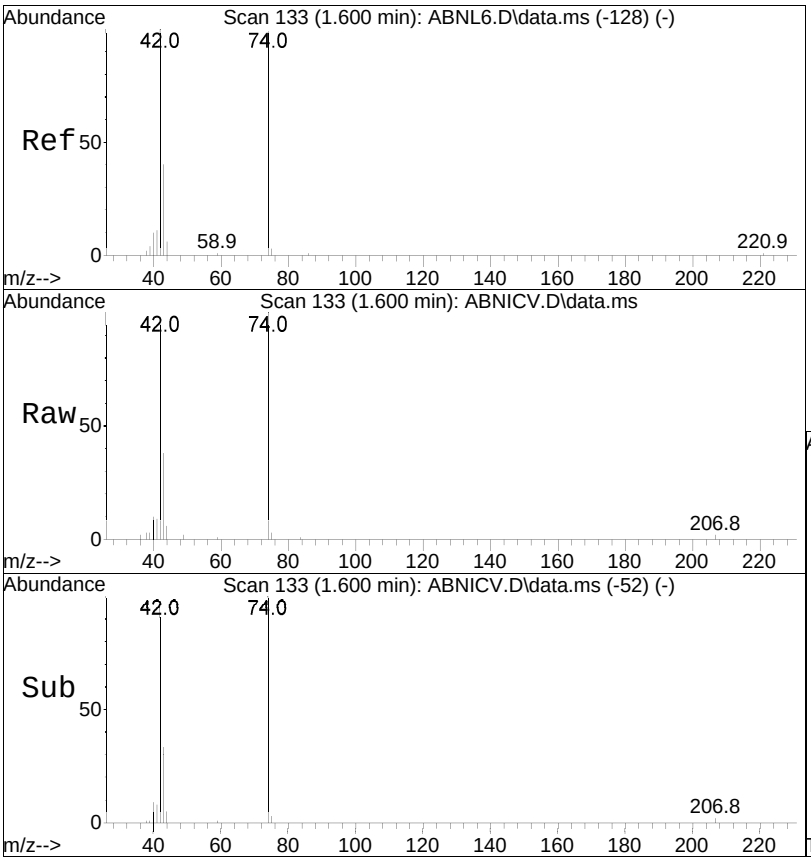
Quantitation Report (QT Reviewed)

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•

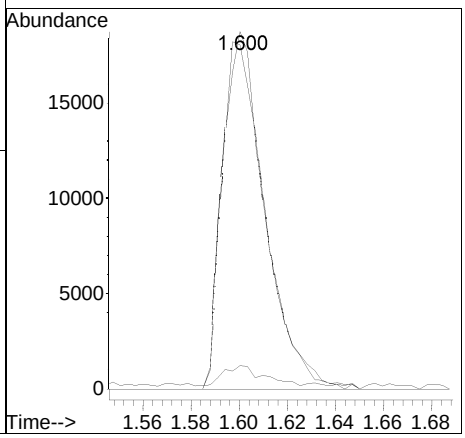


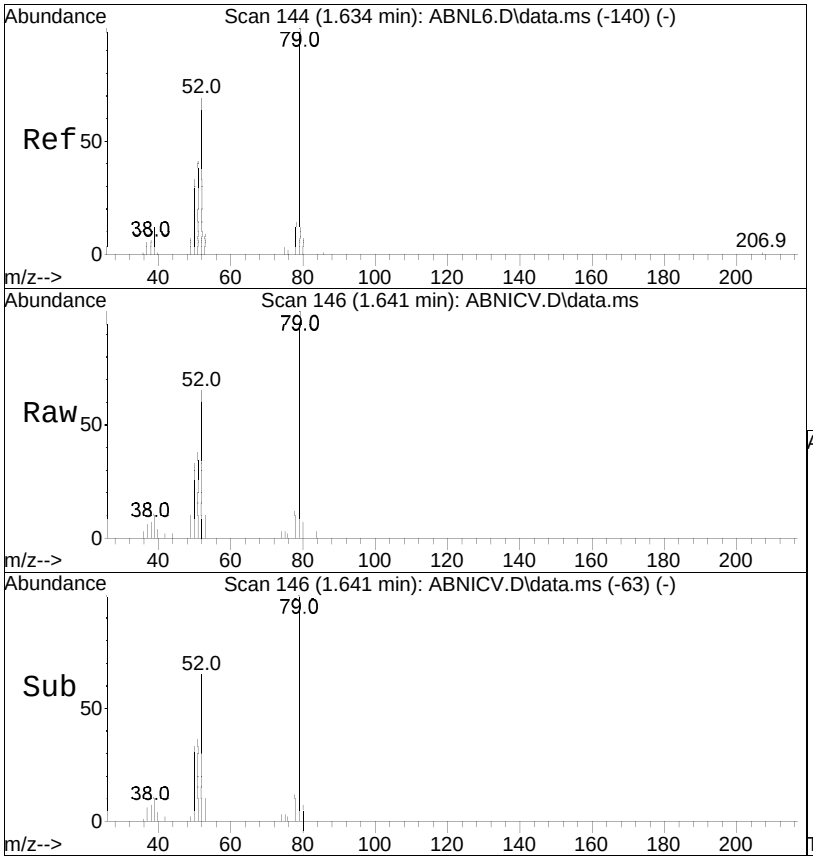


#2
n-Nitrosodimethylamine
Concen: 4.80 ug/ml
RT: 1.600 min Scan# 133
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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#

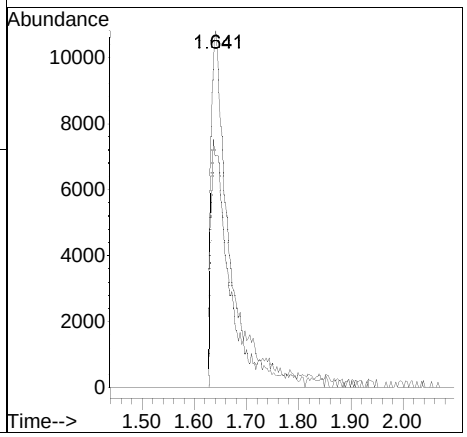


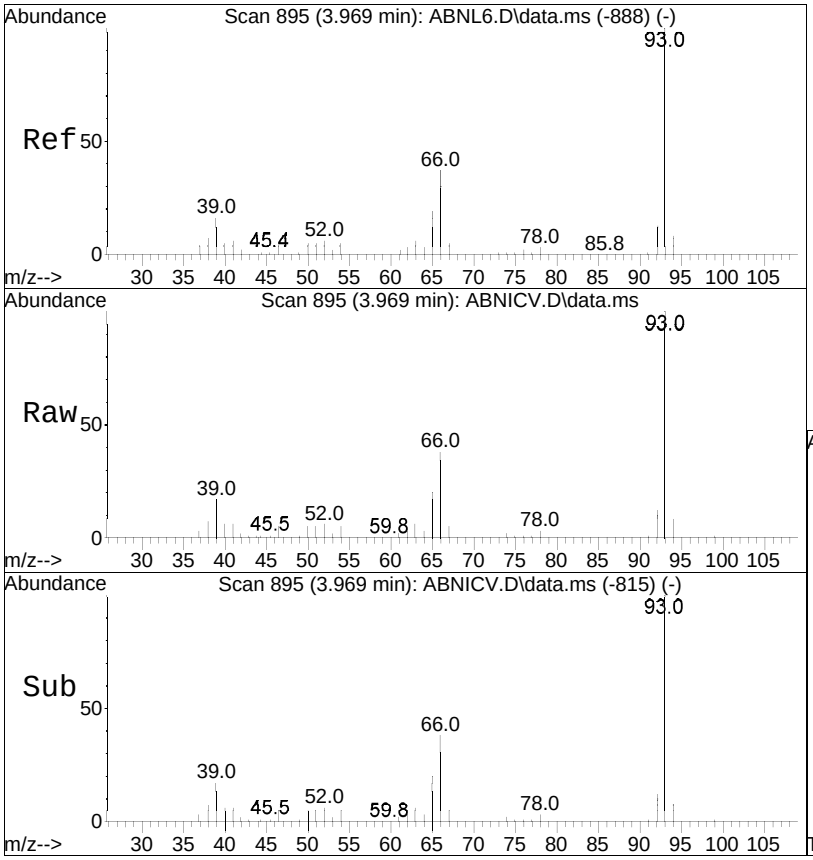


#3
Pyridine
Concen: 3.97 ug/ml M1
RT: 1.641 min Scan# 146
Delta R.T. 0.007 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion: 79 Resp: 28316

Ion	Ratio	Lower	Upper
79	100		
52	57.6	93.1	139.7#

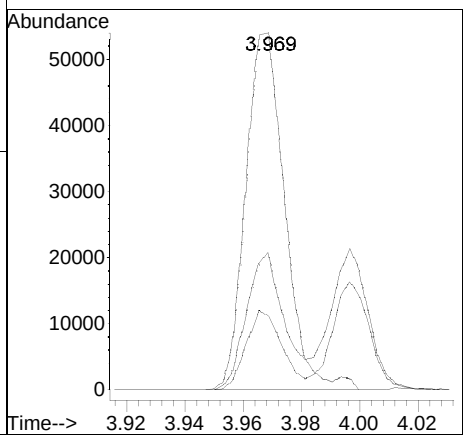


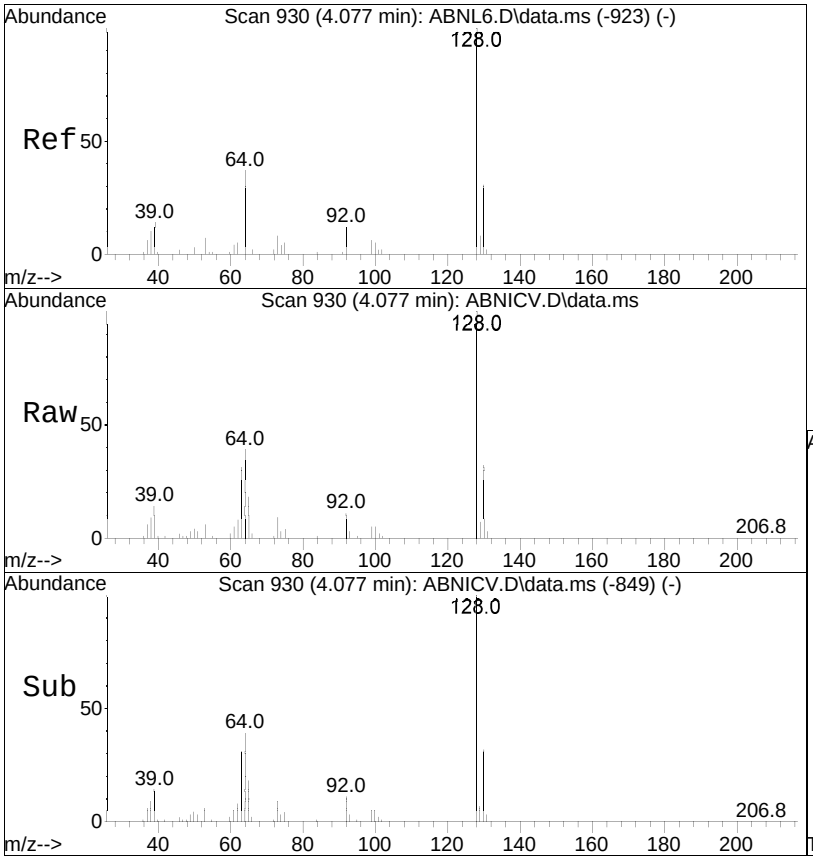


#5
Aniline
Concen: 4.27 ug/ml
RT: 3.969 min Scan# 895
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

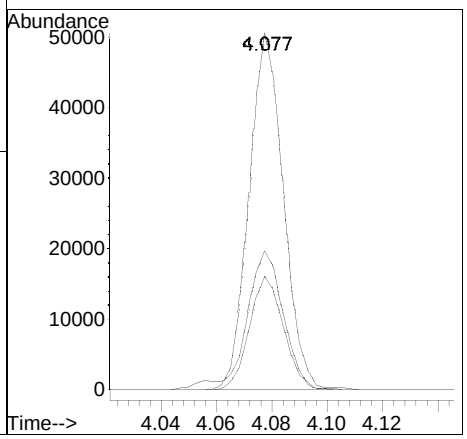


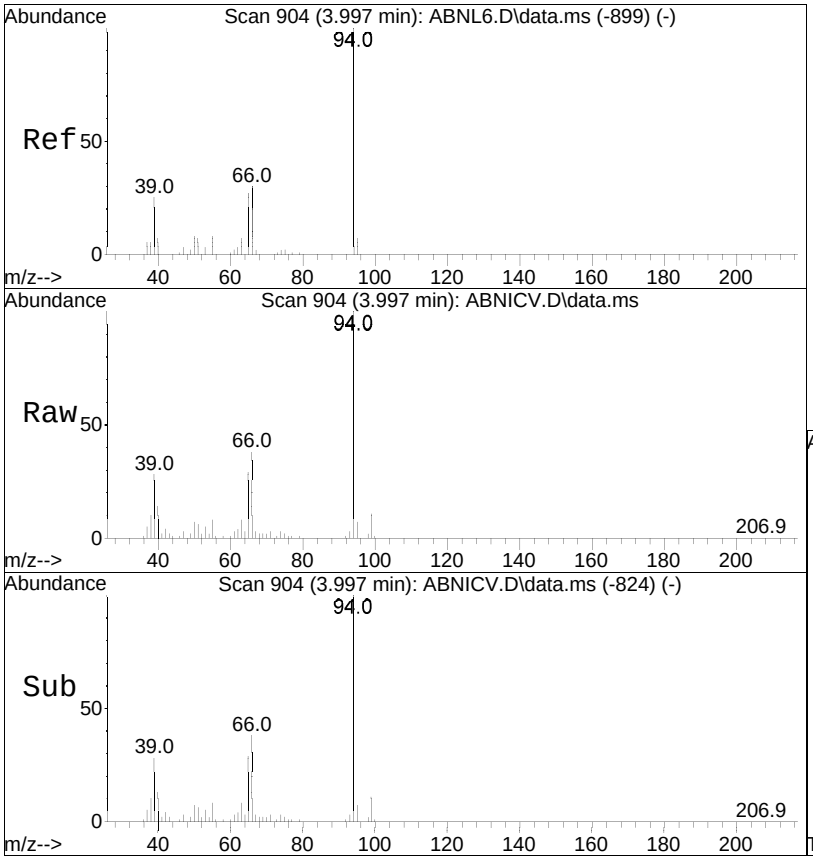


#6
2-Chlorophenol
Concen: 4.73 ug/ml
RT: 4.077 min Scan# 930
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

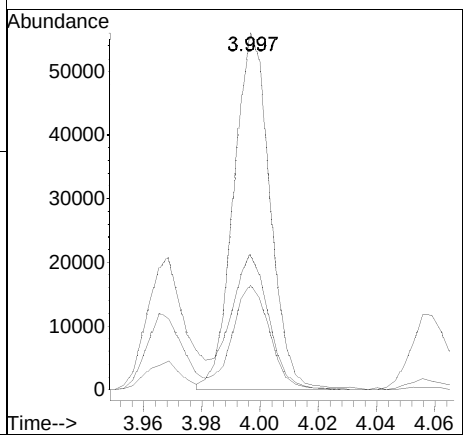


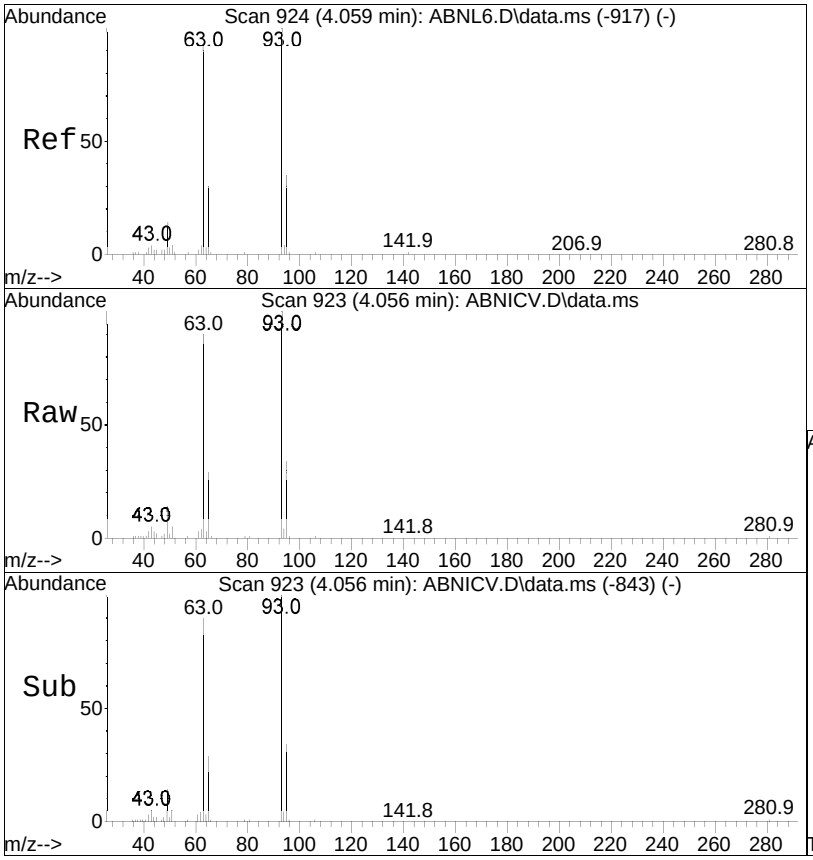


#8
Phenol
Concen: 4.56 ug/ml
RT: 3.997 min Scan# 904
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

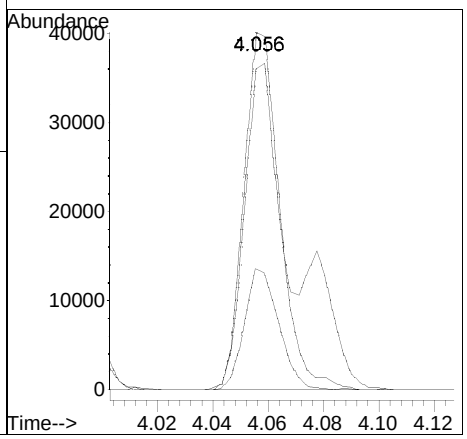


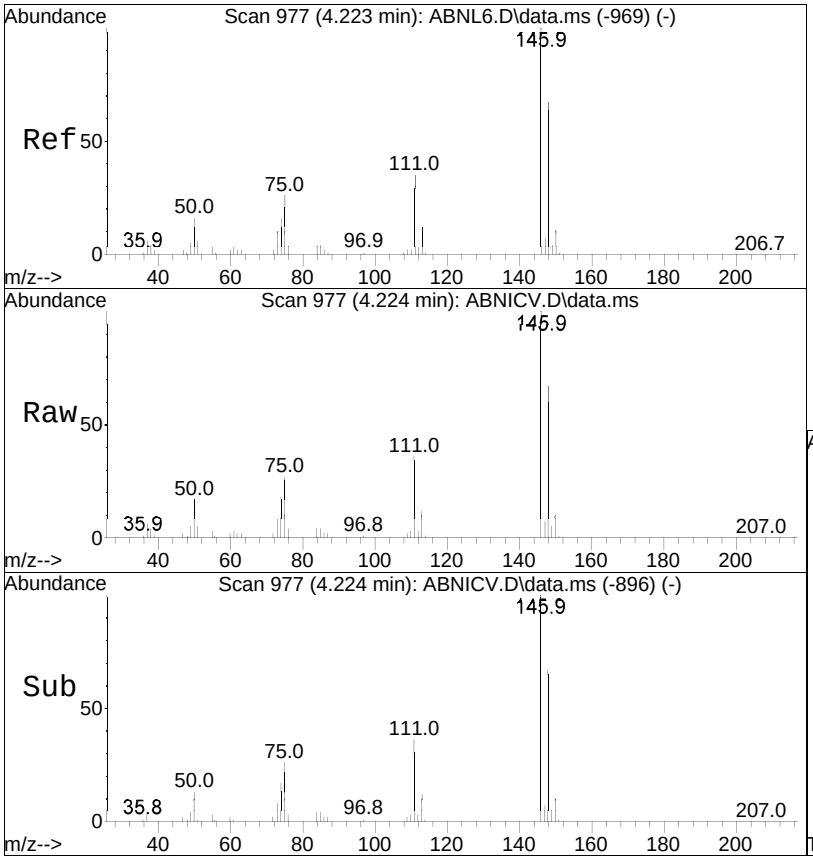


#9
Bis(2-chloroethyl)ether
Concen: 4.73 ug/ml
RT: 4.056 min Scan# 923
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

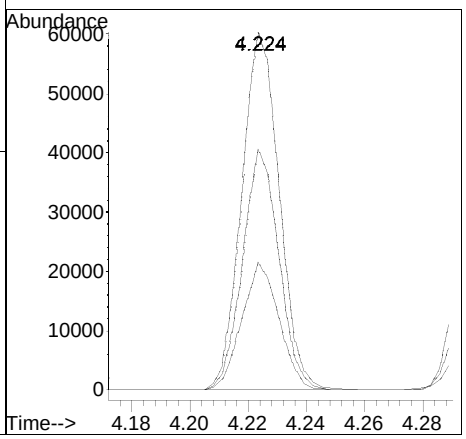


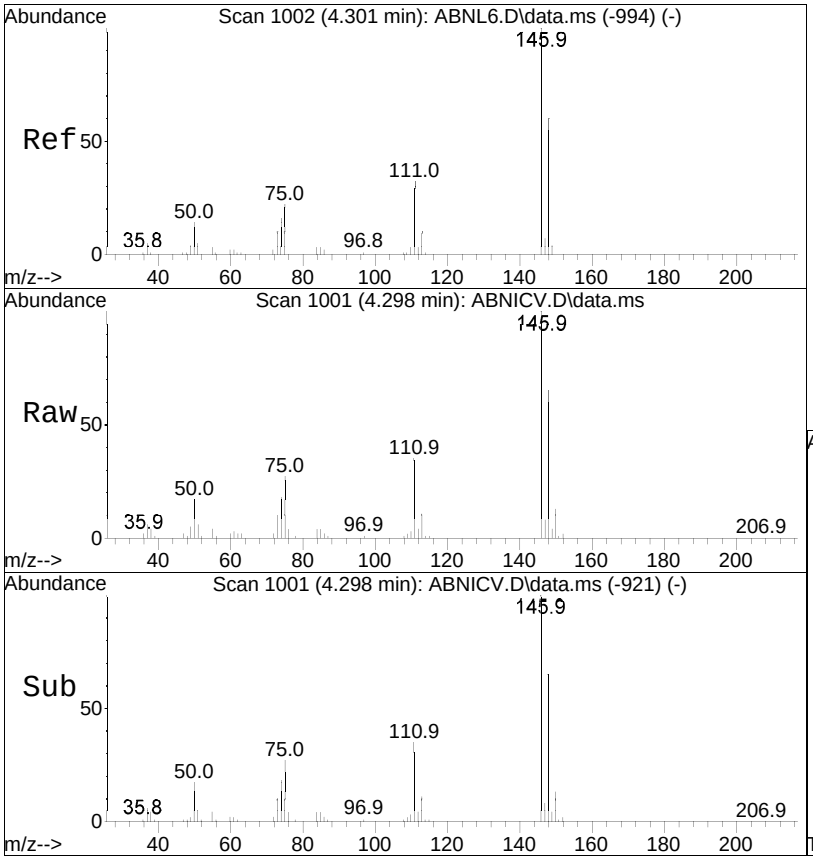


#10
1,3-Dichlorobenzene
Concen: 4.53 ug/ml
RT: 4.224 min Scan# 977
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

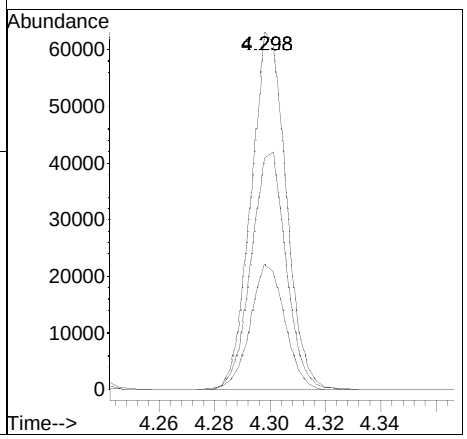


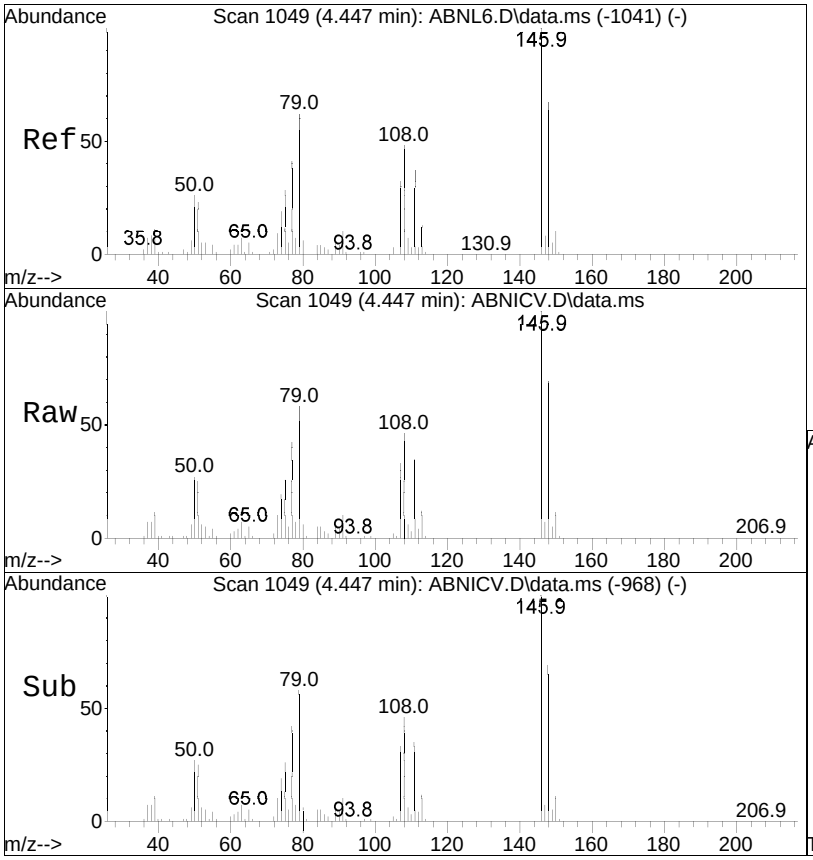


#11
1,4-Dichlorobenzene
Concen: 4.58 ug/ml
RT: 4.298 min Scan# 1001
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

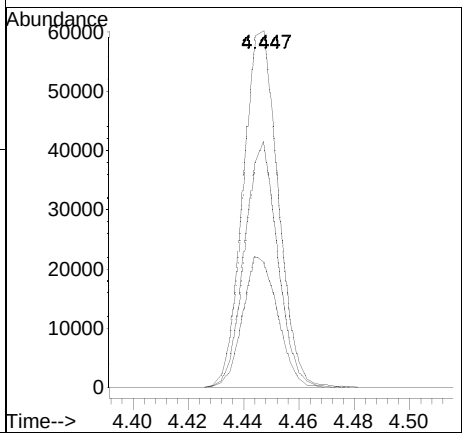


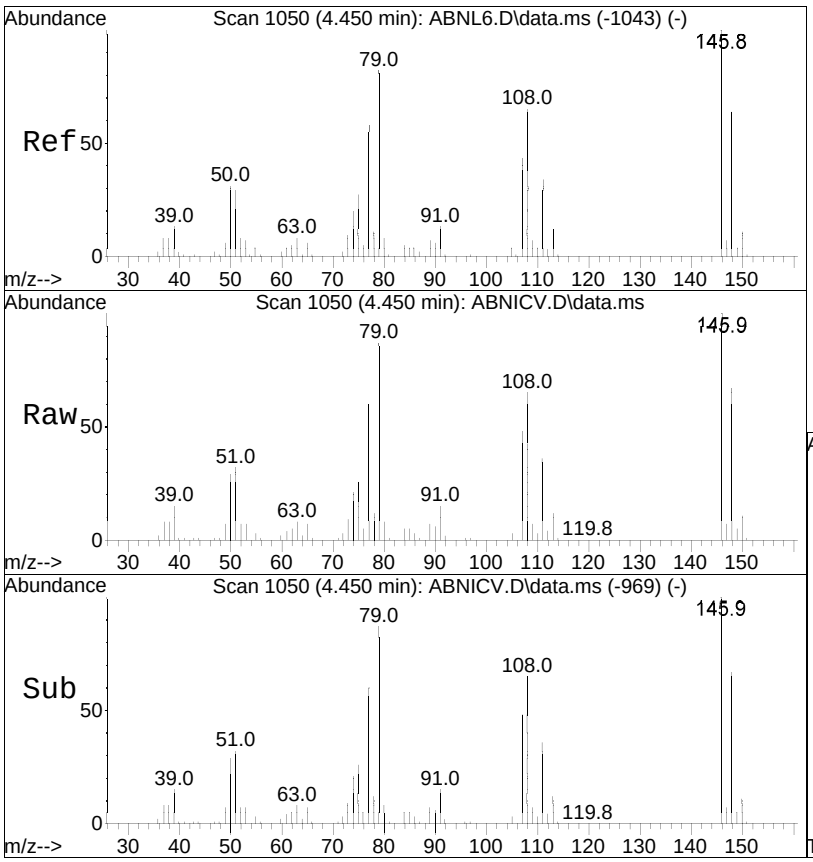


#12
1,2-Dichlorobenzene
Concen: 4.60 ug/ml
RT: 4.447 min Scan# 1049
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

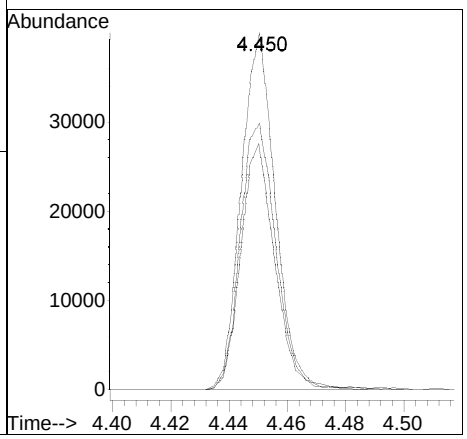


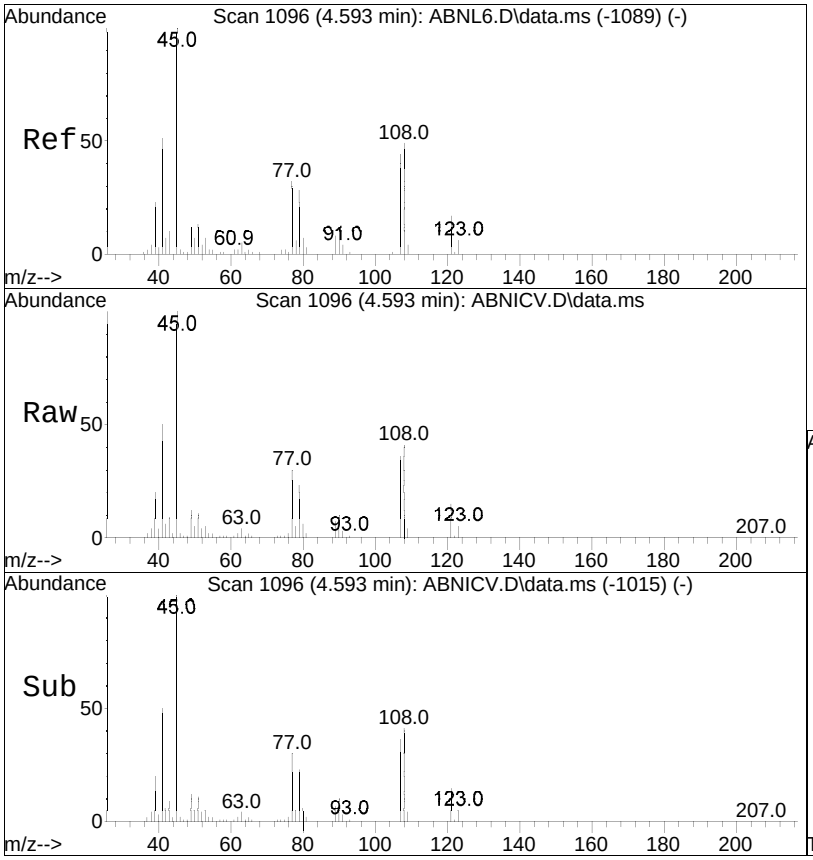


#13
Benzyl alcohol
Concen: 4.67 ug/ml
RT: 4.450 min Scan# 1050
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

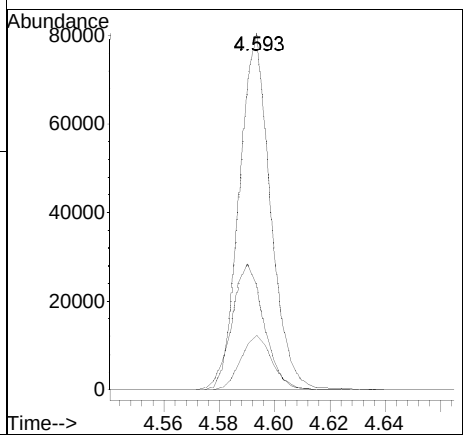


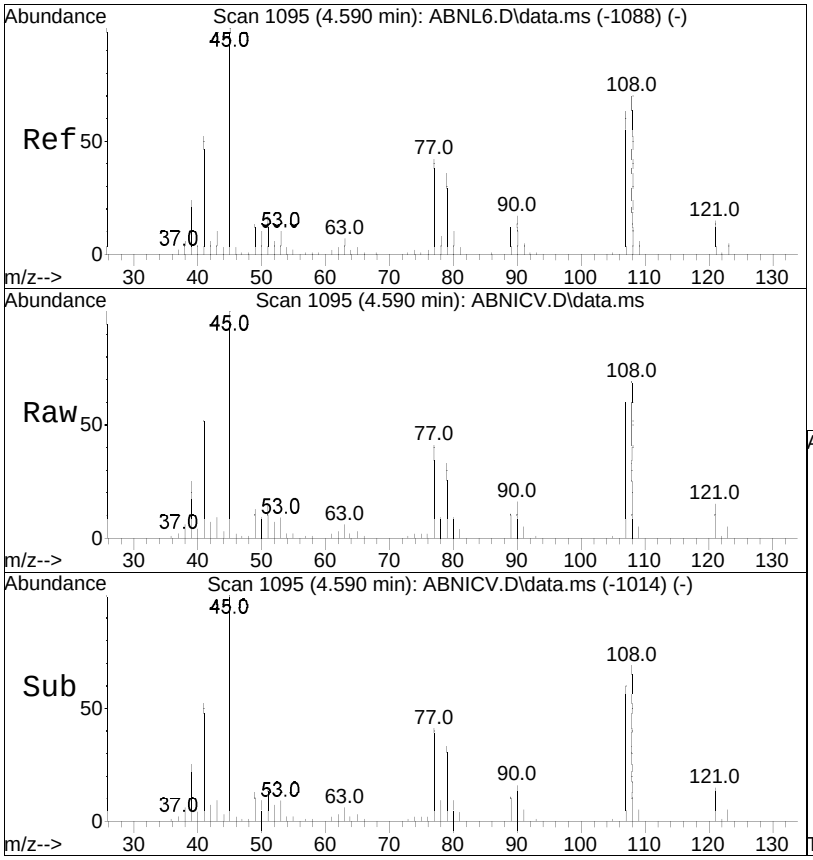


#14
Bis(2-chloroisopropyl)ether
Concen: 4.66 ug/ml
RT: 4.593 min Scan# 1096
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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#

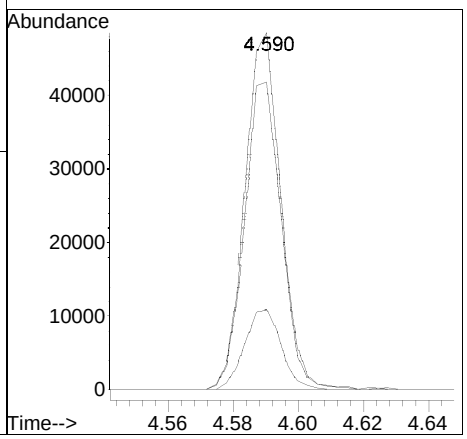


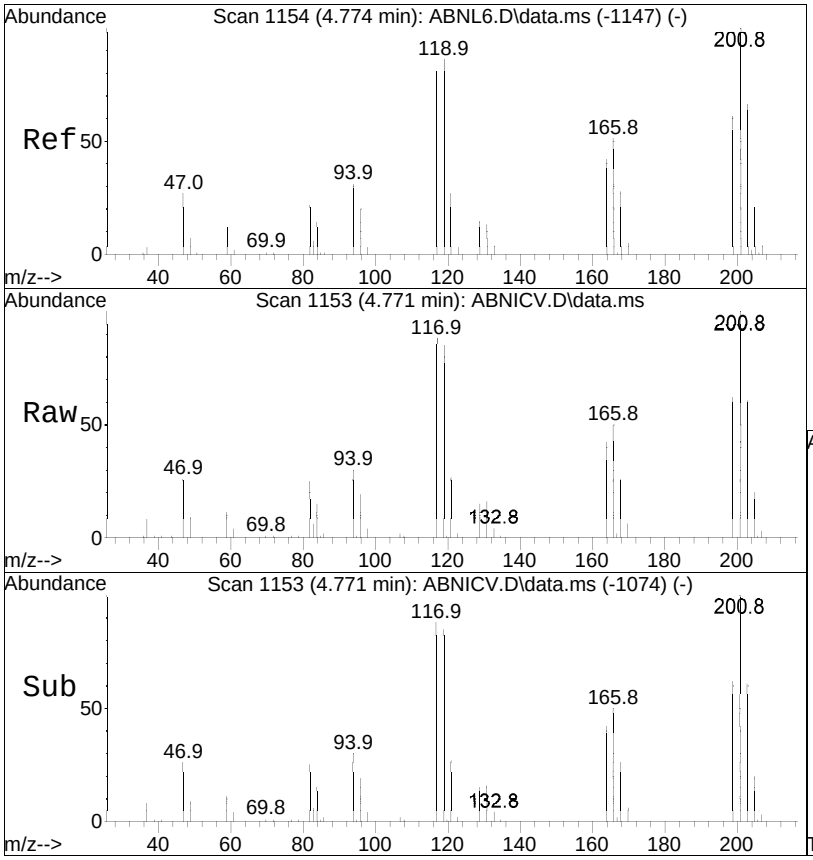


#15
2-Methylphenol
Concen: 4.59 ug/ml
RT: 4.590 min Scan# 1095
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

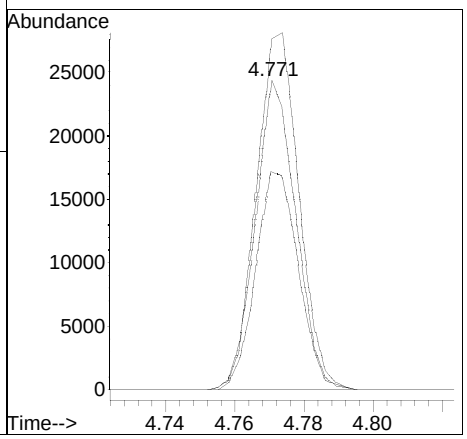


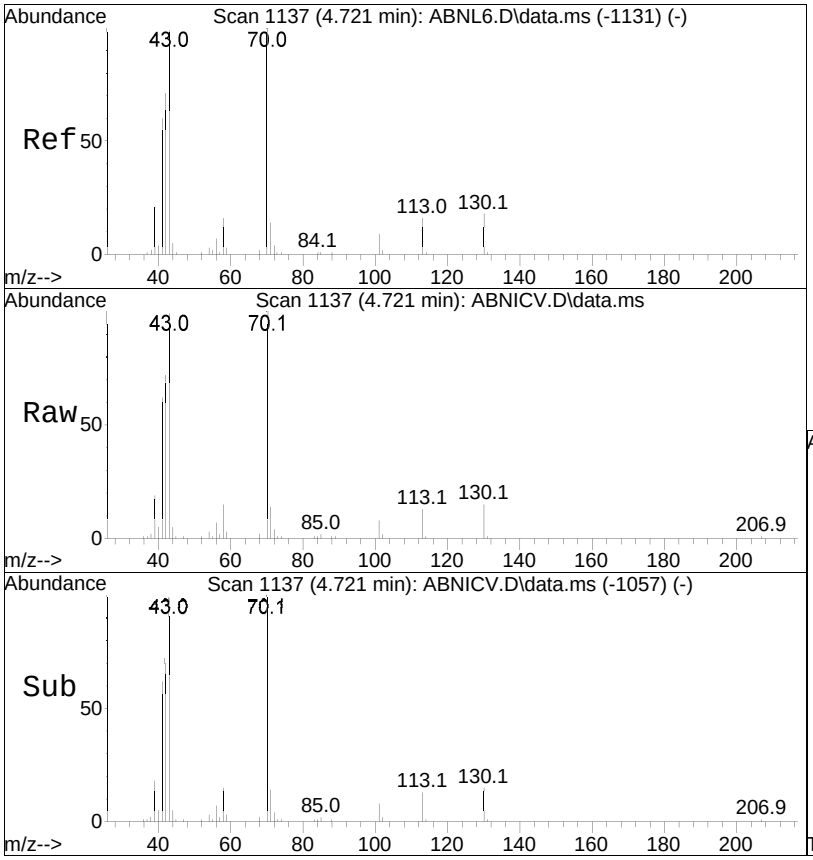


#16
Hexachloroethane
Concen: 4.49 ug/ml
RT: 4.771 min Scan# 1153
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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#

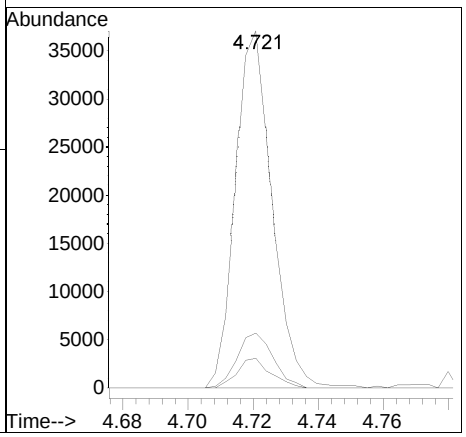


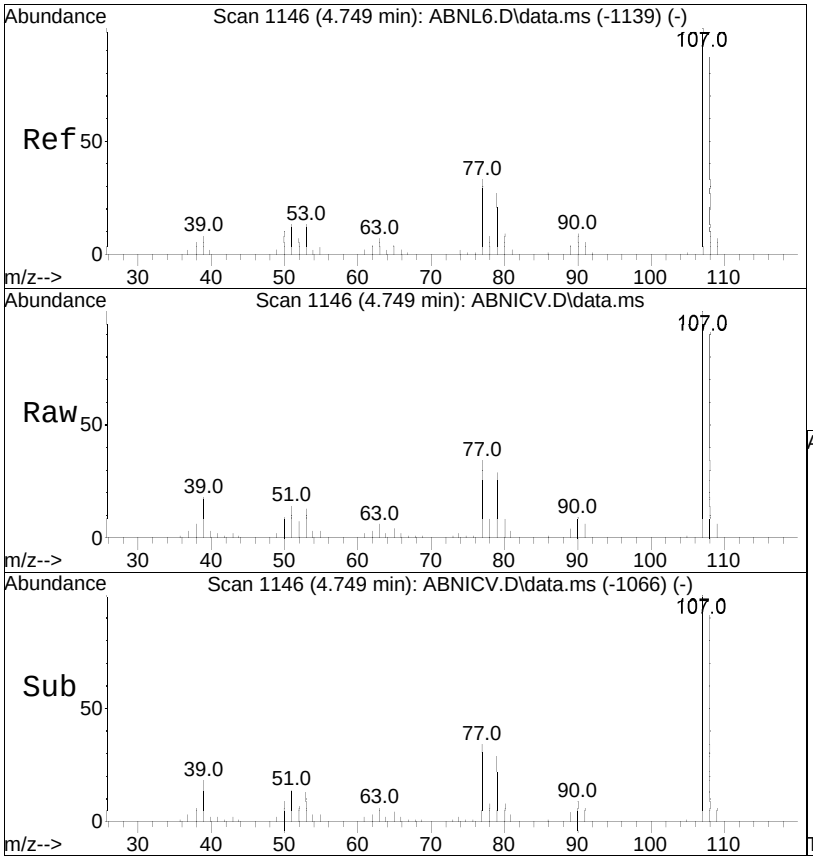


#17
n-Nitrosodi-n-propylamine
Concen: 4.48 ug/ml
RT: 4.721 min Scan# 1137
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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#

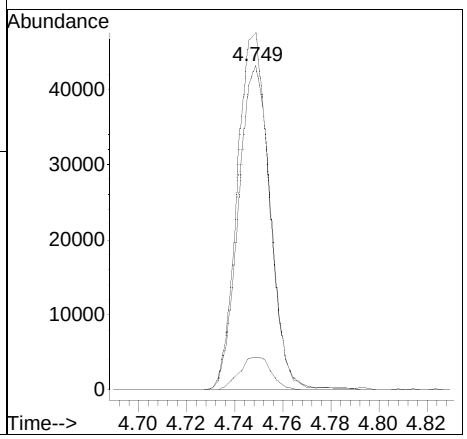


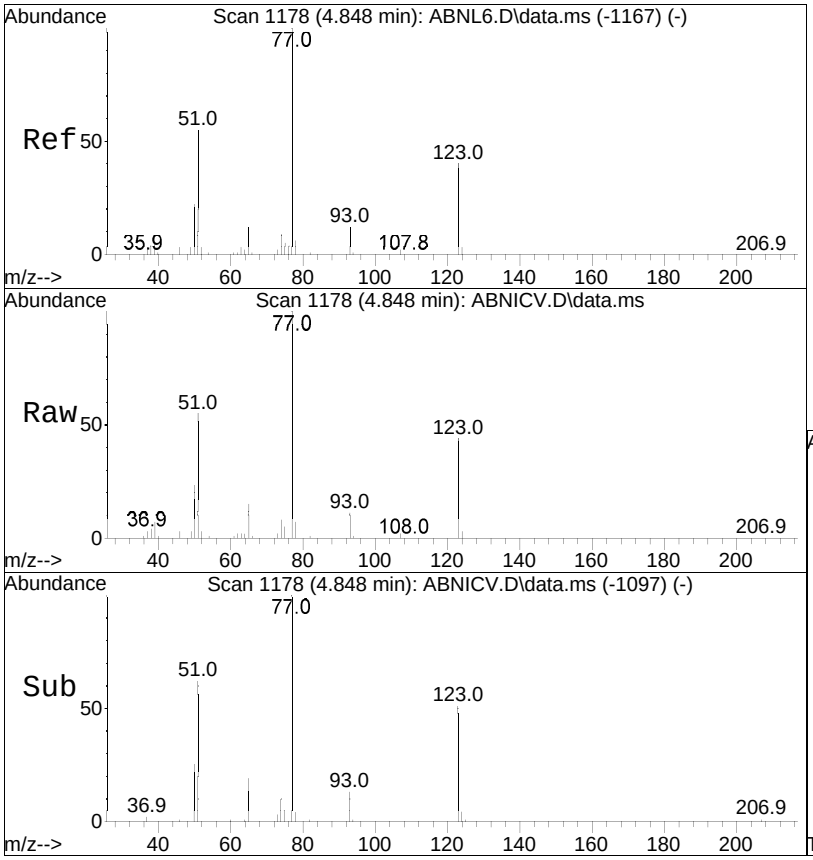


#18
3-Methylphenol/4-Methylphenol
Concen: 4.49 ug/ml
RT: 4.749 min Scan# 1146
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

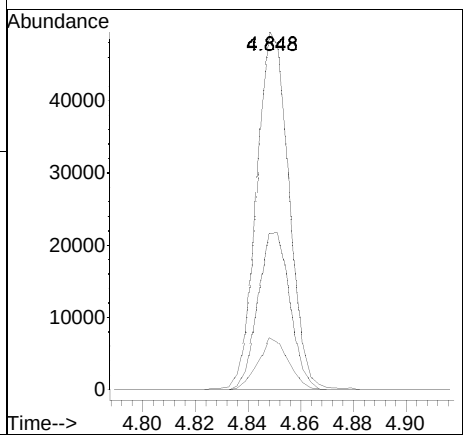


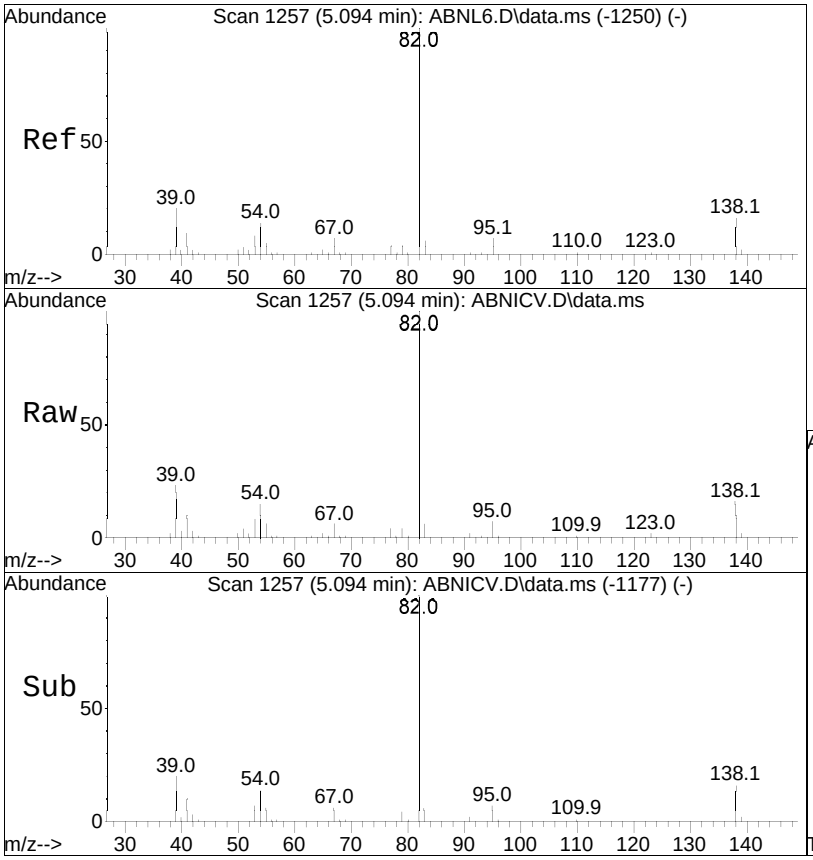


#20
Nitrobenzene
Concen: 4.59 ug/ml
RT: 4.848 min Scan# 1178
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

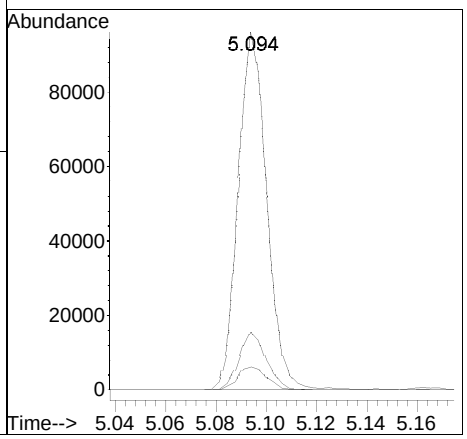


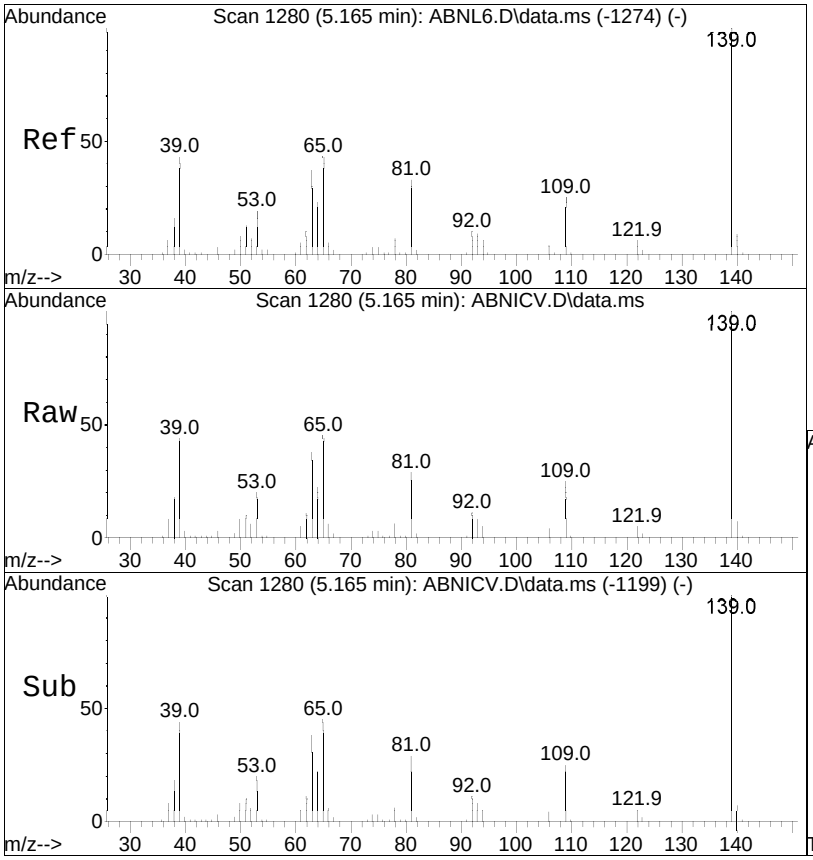


#21
Isophorone
Concen: 4.48 ug/ml
RT: 5.094 min Scan# 1257
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

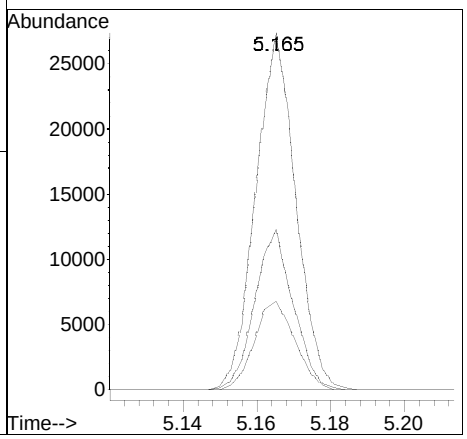


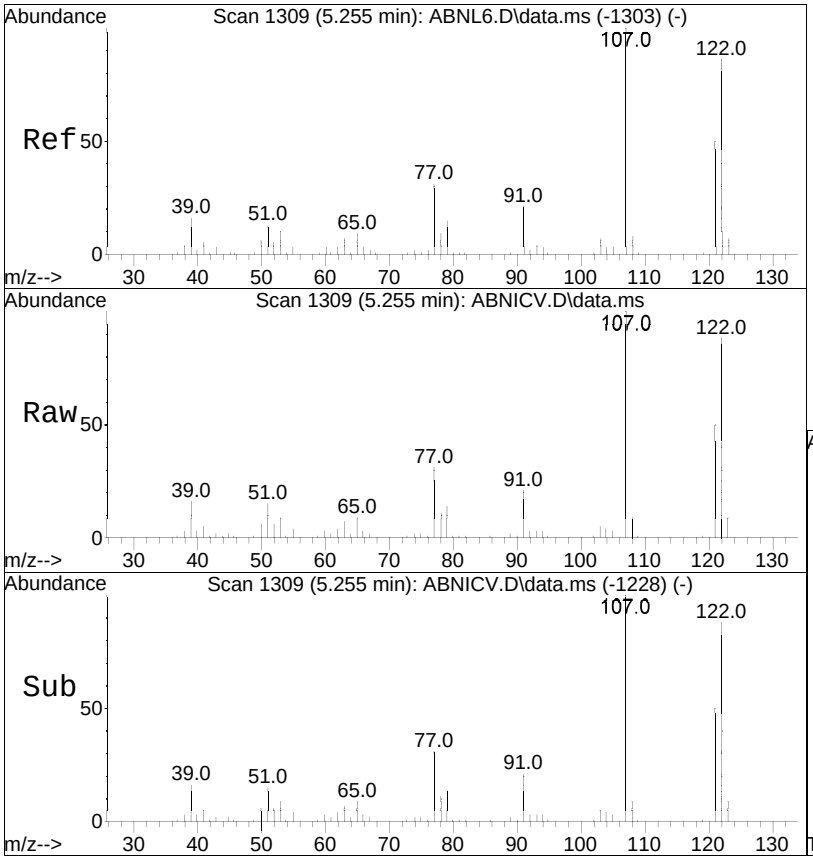


#22
2-Nitrophenol
Concen: 4.42 ug/ml
RT: 5.165 min Scan# 1280
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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#

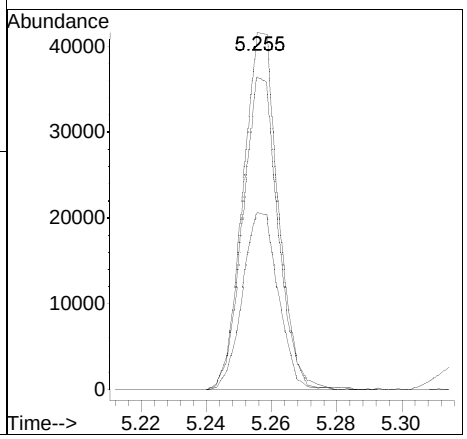


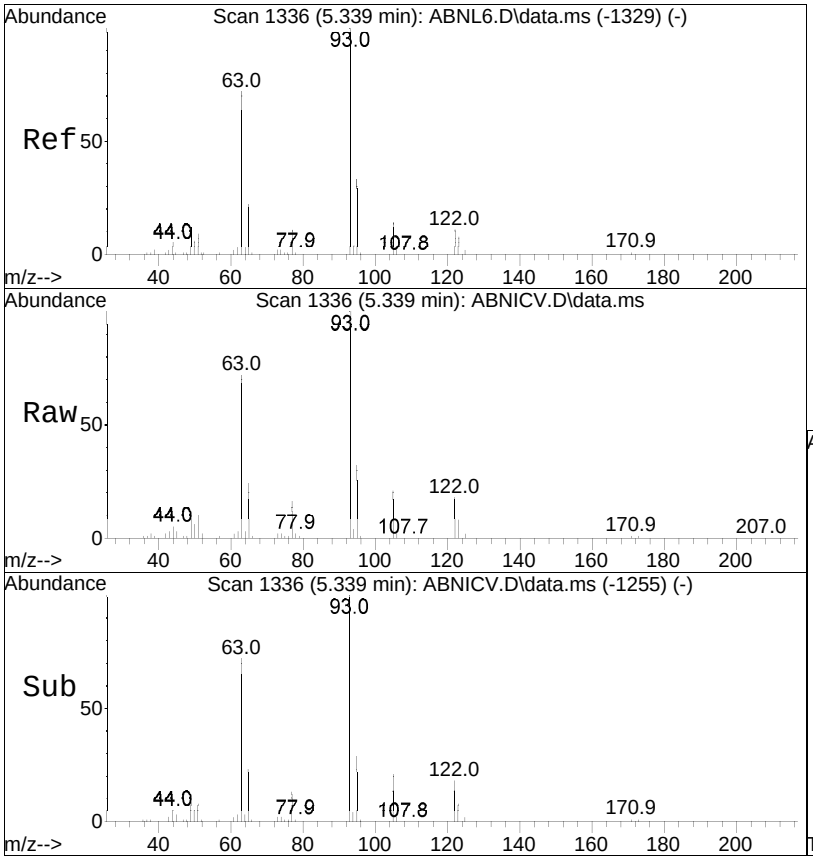


#23
2,4-Dimethylphenol
Concen: 3.79 ug/ml
RT: 5.255 min Scan# 1309
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

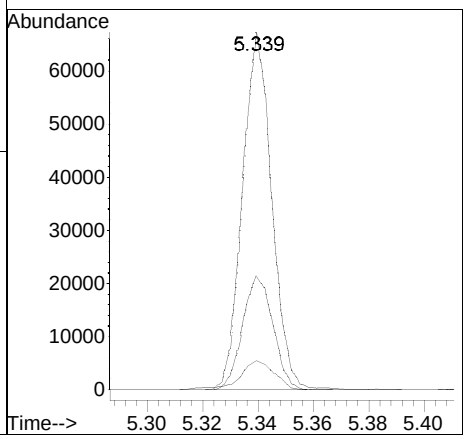


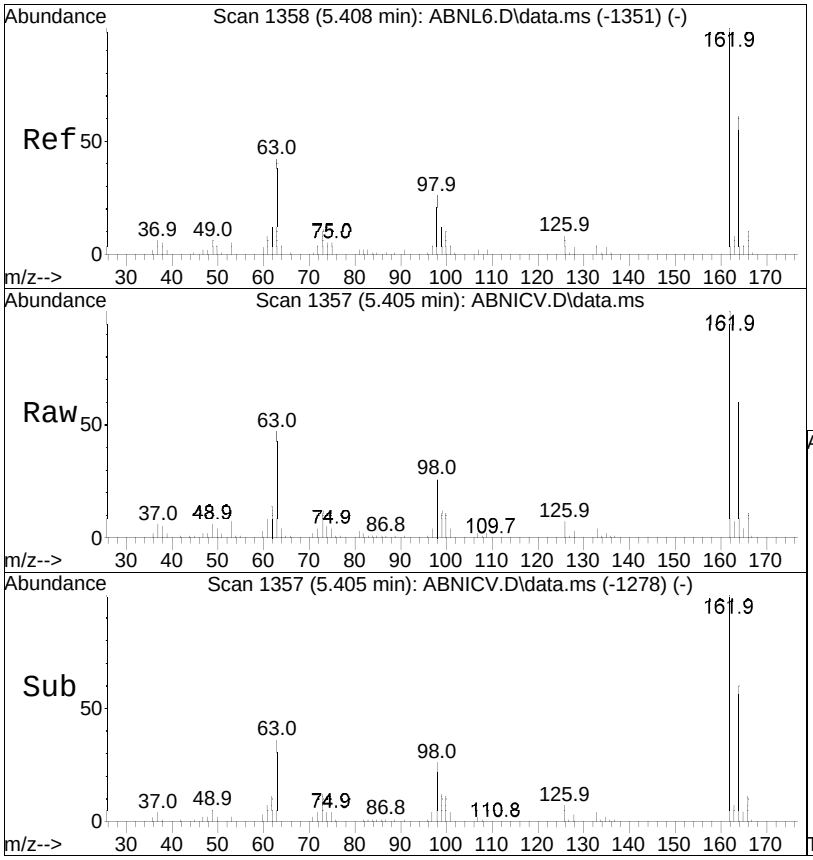


#24
Bis(2-chloroethoxy)methane
Concen: 4.69 ug/ml
RT: 5.339 min Scan# 1336
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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#

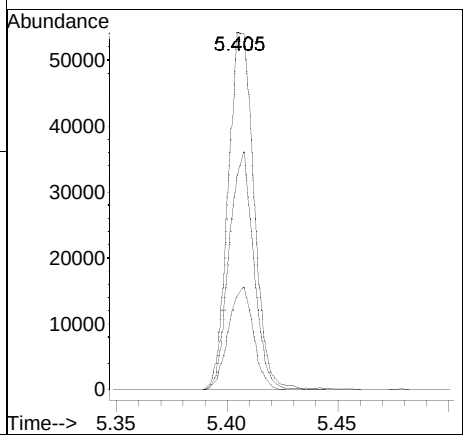


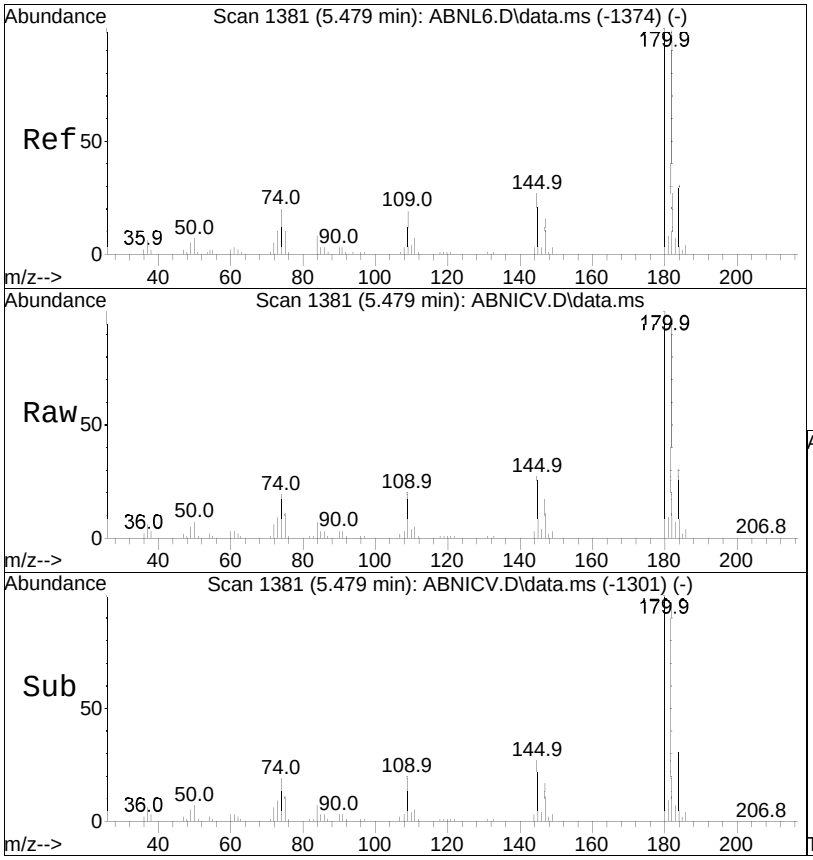


#25
2,4-Dichlorophenol
Concen: 4.55 ug/ml
RT: 5.405 min Scan# 1357
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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#

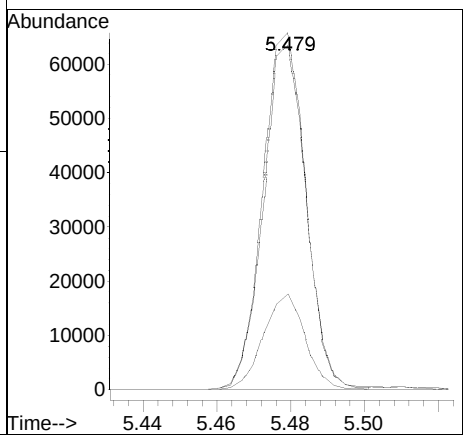


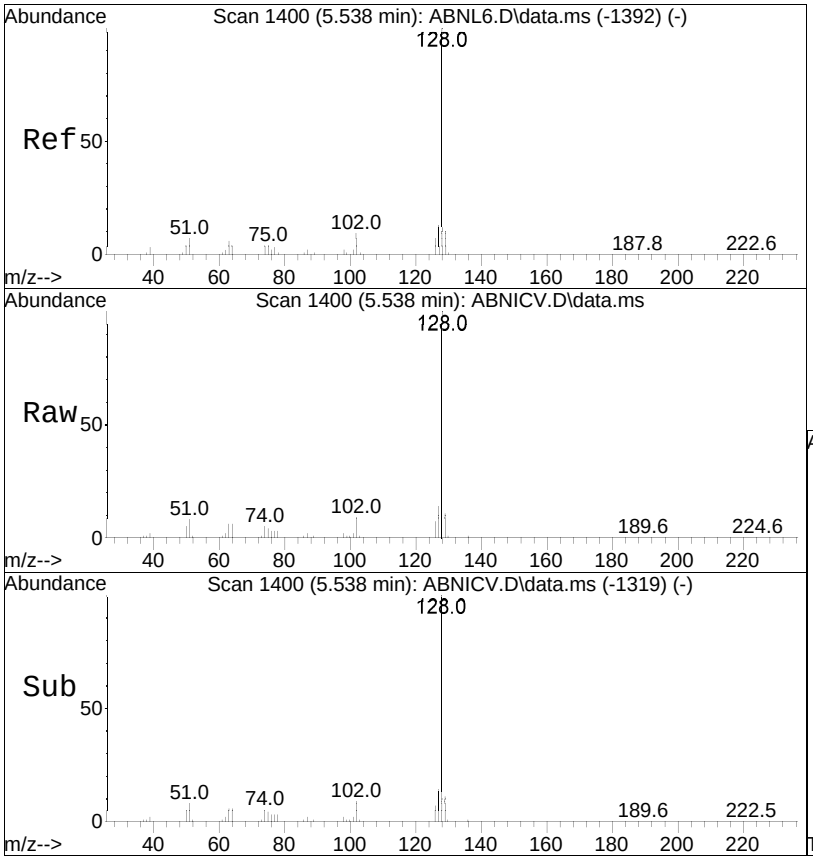


#26
1,2,4-Trichlorobenzene
Concen: 4.56 ug/ml
RT: 5.479 min Scan# 1381
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

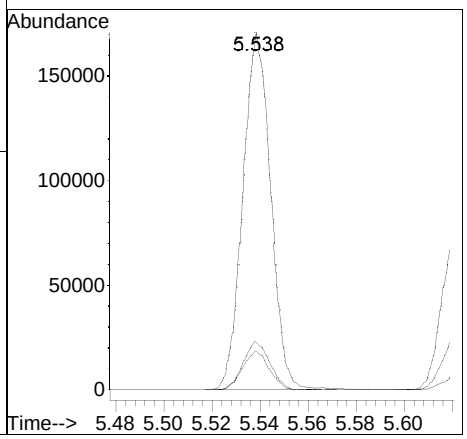


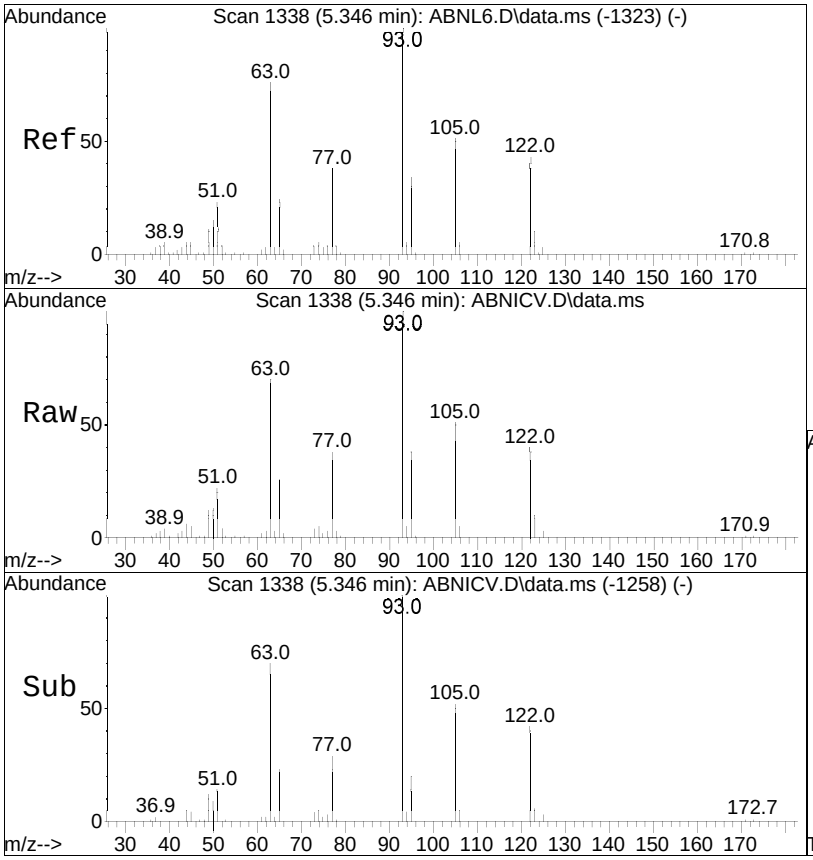


#38
Naphthalene
Concen: 4.45 ug/ml
RT: 5.538 min Scan# 1400
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

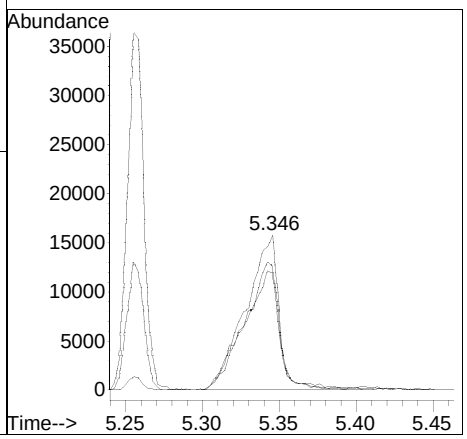


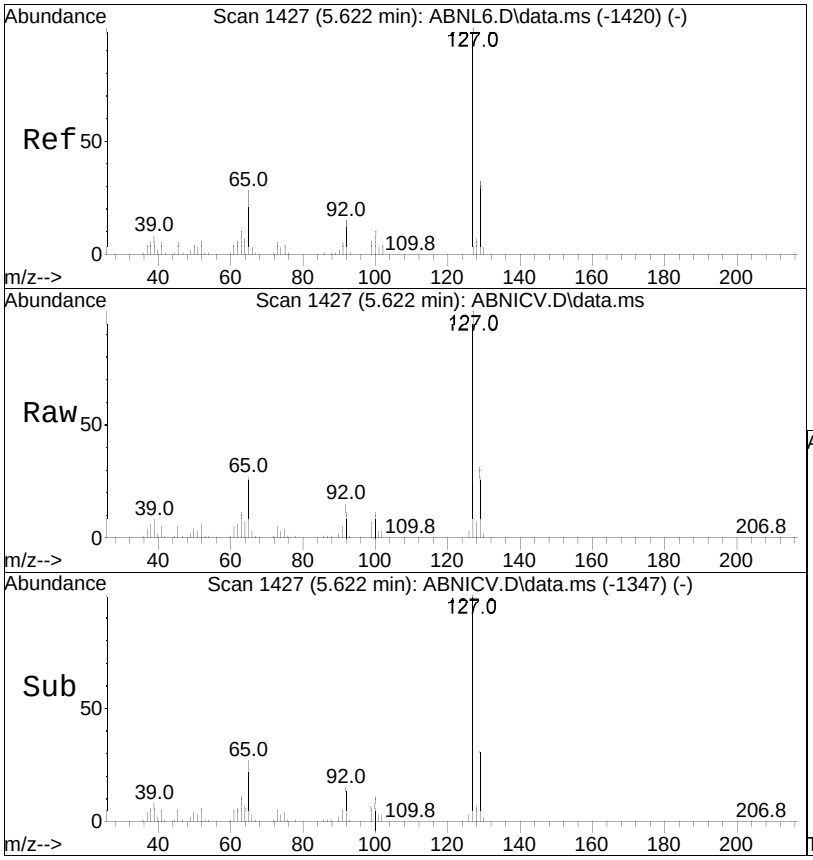


#39
Benzoic Acid
Concen: 3.83 ug/ml
RT: 5.346 min Scan# 1338
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

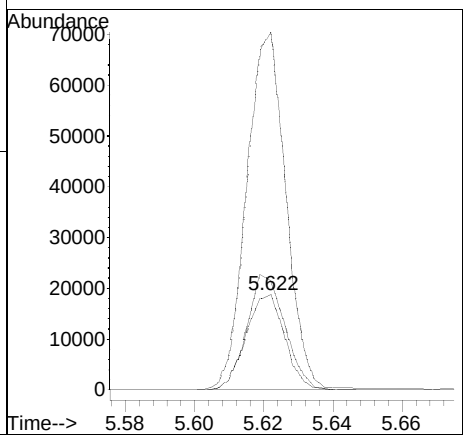


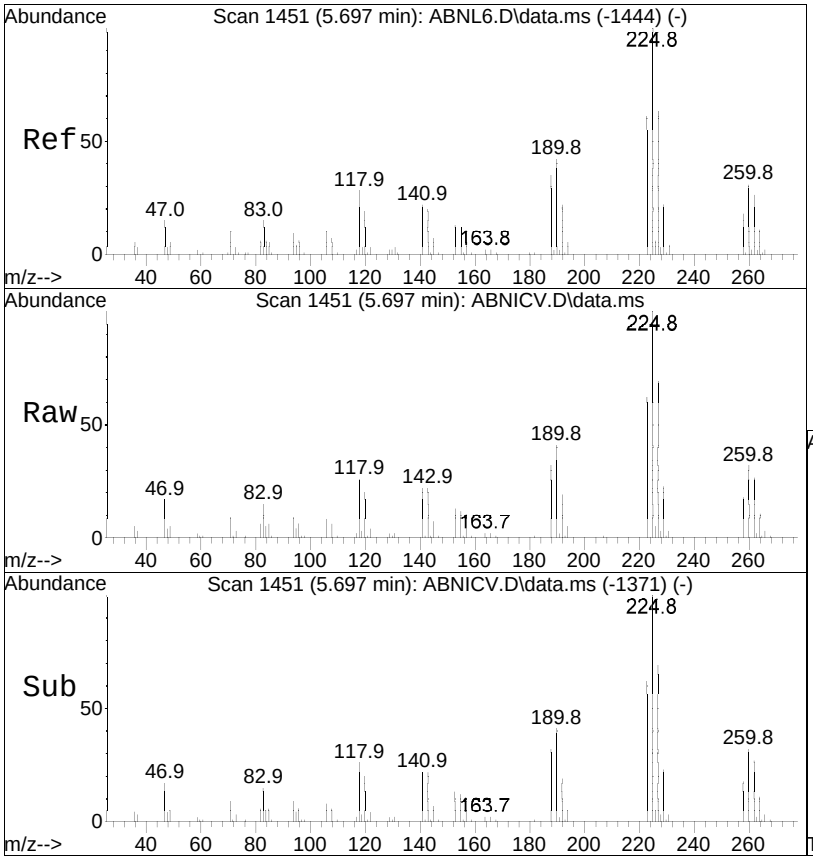


#40
4-Chloroaniline
Concen: 4.31 ug/ml
RT: 5.622 min Scan# 1427
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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#

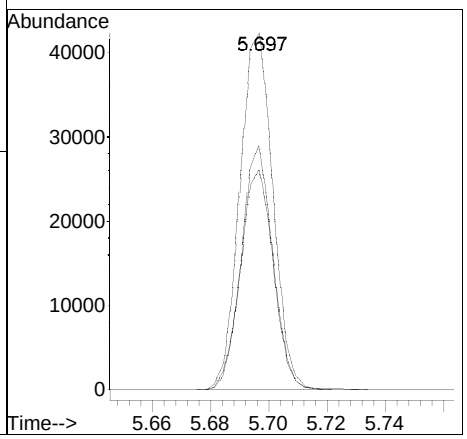


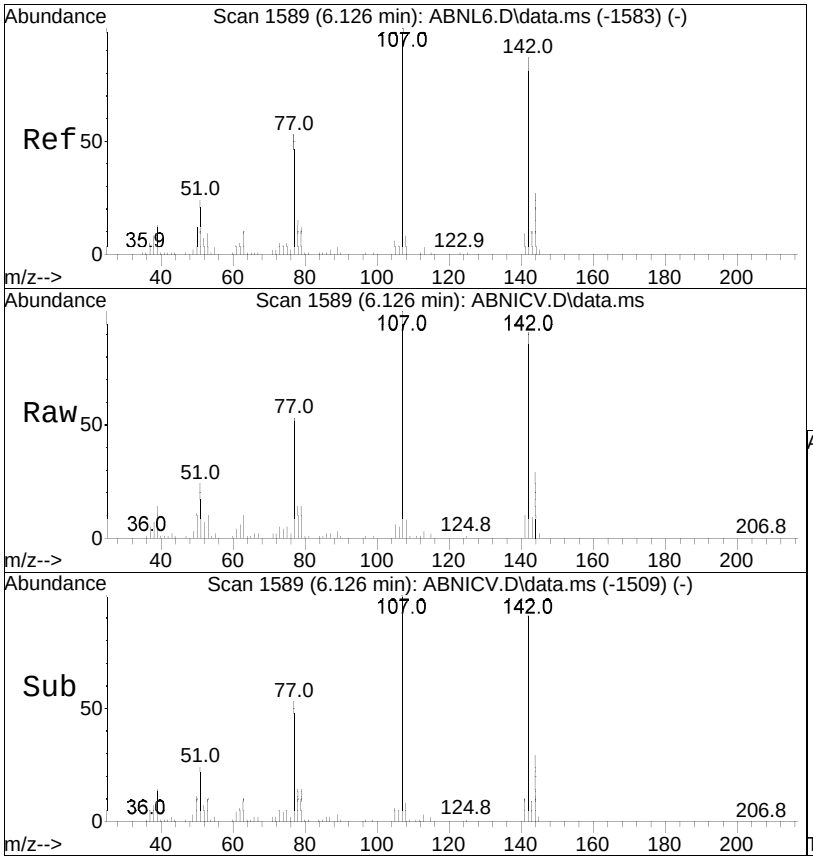


#41
Hexachlorobutadiene
Concen: 4.65 ug/ml
RT: 5.697 min Scan# 1451
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

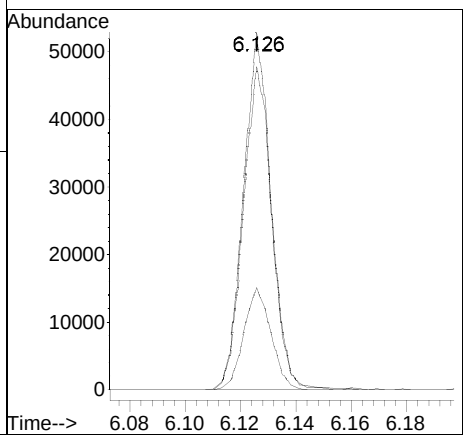


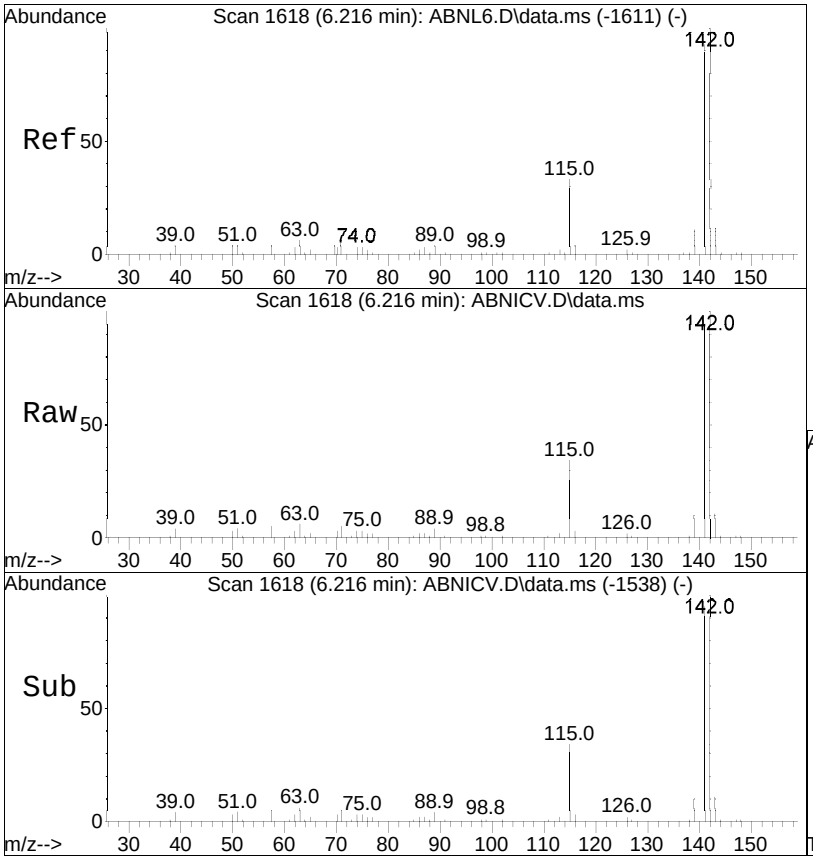


#42
p-Chloro-m-cresol
Concen: 4.51 ug/ml
RT: 6.126 min Scan# 1589
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

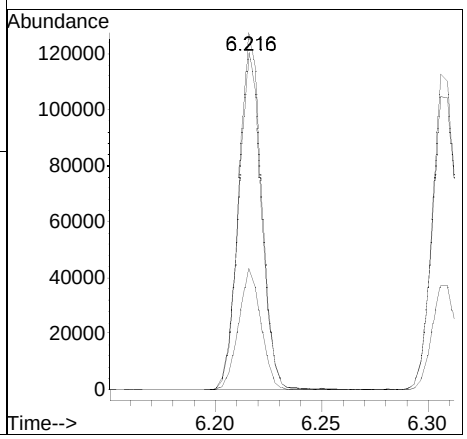


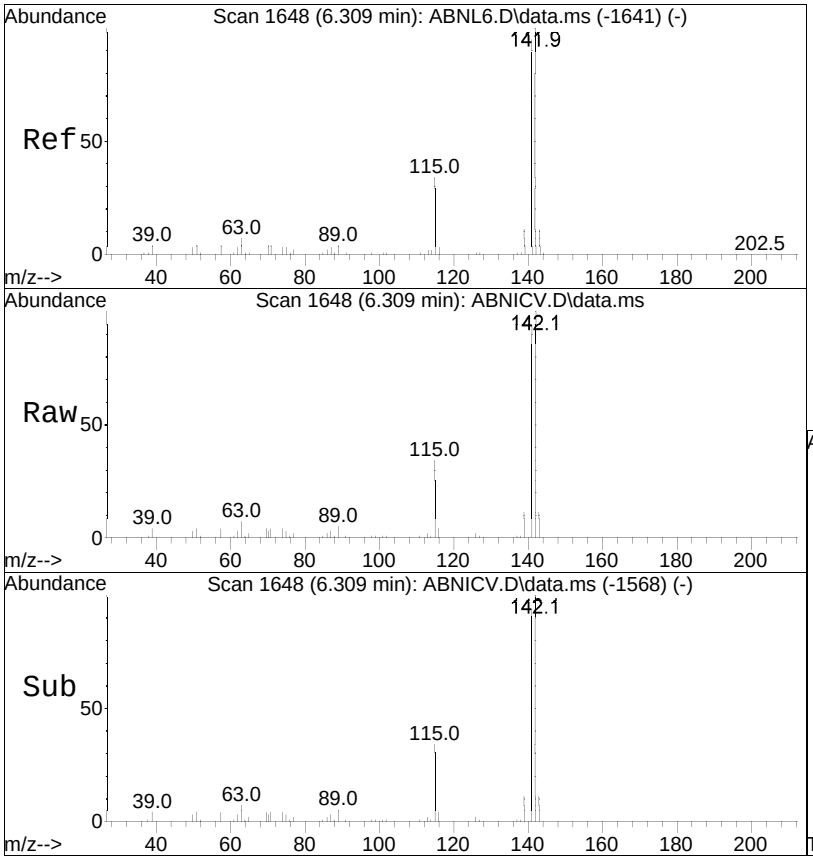


#43
2-Methylnaphthalene
Concen: 4.53 ug/ml
RT: 6.216 min Scan# 1618
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

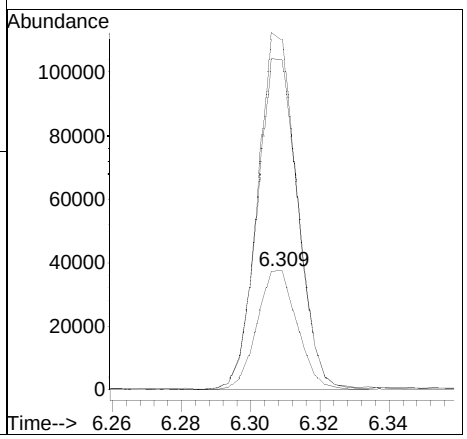


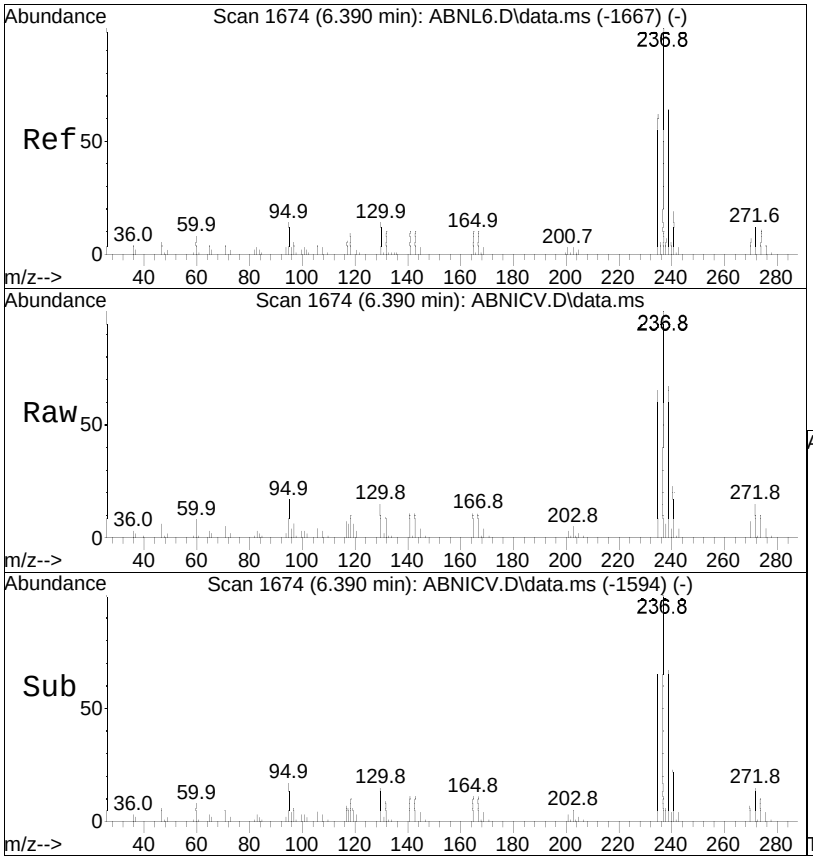


#44
1-Methylnaphthalene
Concen: 4.52 ug/ml
RT: 6.309 min Scan# 1648
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

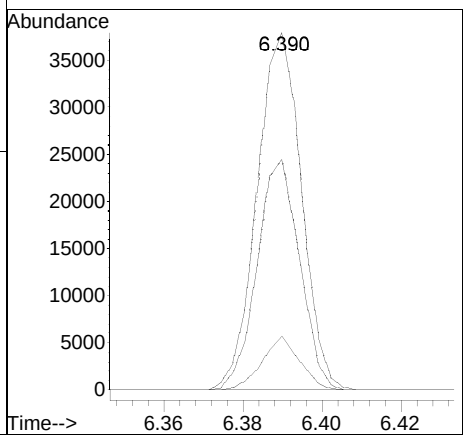


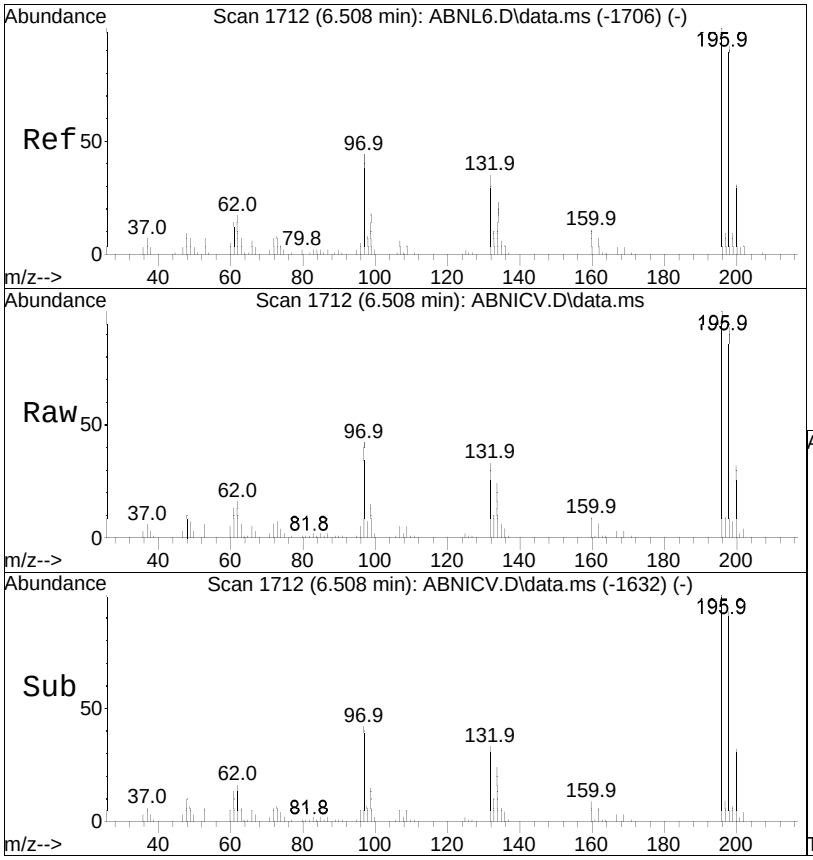


#45
Hexachlorocyclopentadiene
Concen: 3.87 ug/ml
RT: 6.390 min Scan# 1674
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

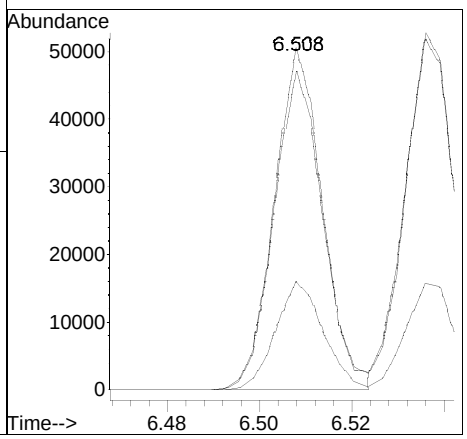


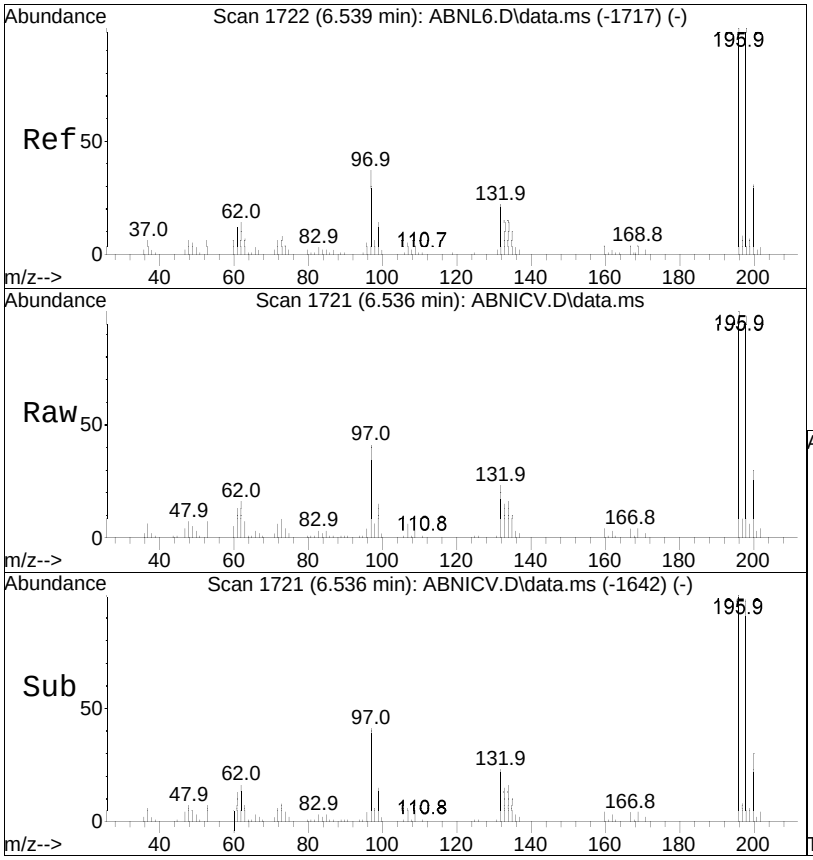


#46
2,4,6-Trichlorophenol
Concen: 4.58 ug/ml
RT: 6.508 min Scan# 1712
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

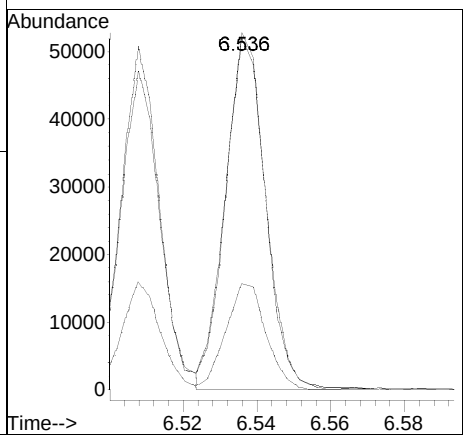


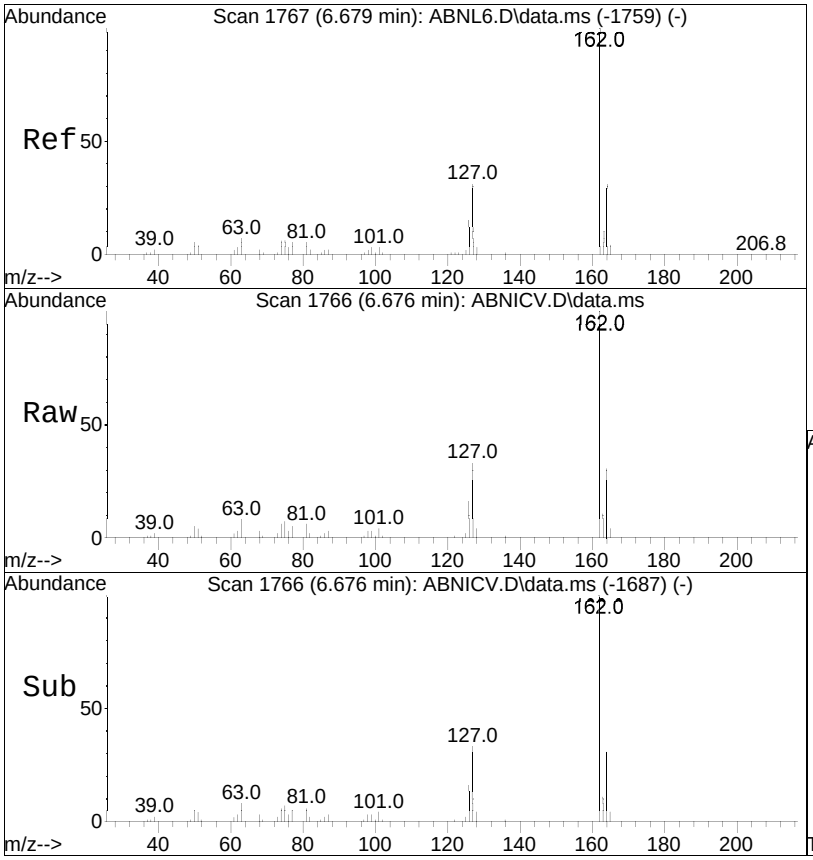


#47
2,4,5-Trichlorophenol
Concen: 4.43 ug/ml
RT: 6.536 min Scan# 1721
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

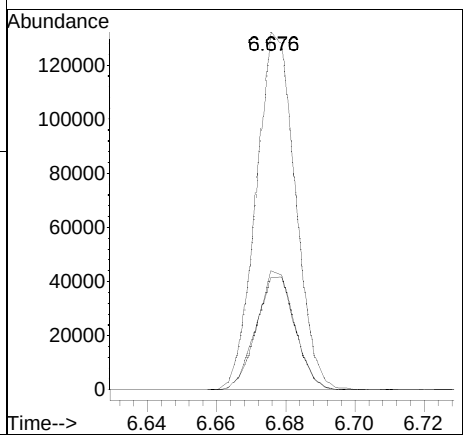


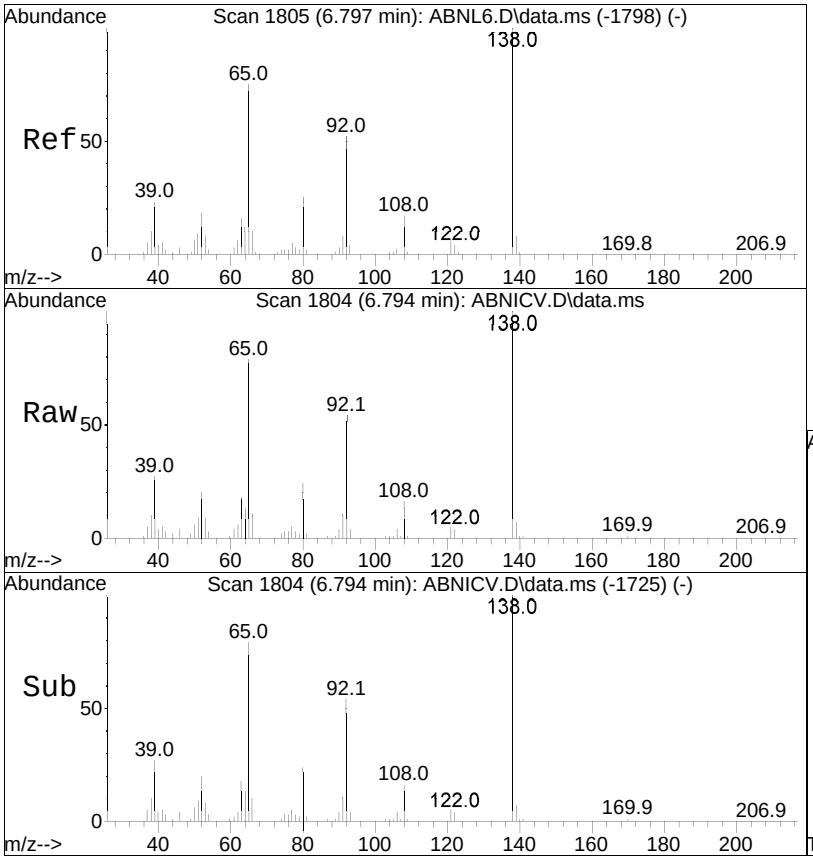


#49
2-Chloronaphthalene
Concen: 4.33 ug/ml
RT: 6.676 min Scan# 1766
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

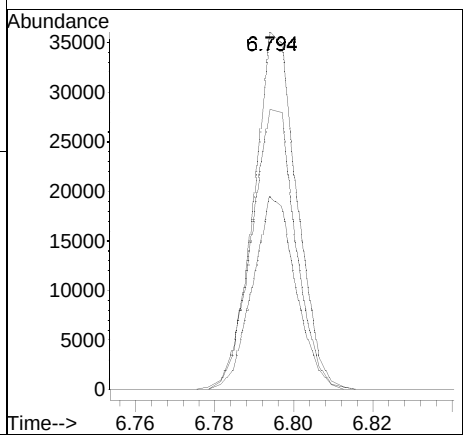


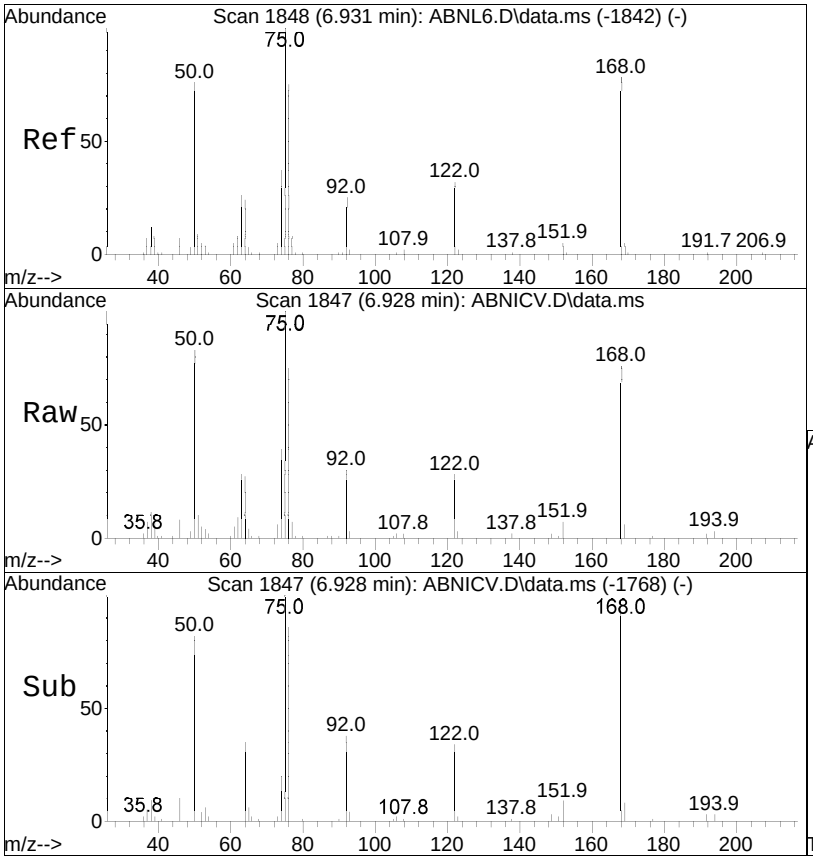


#50
2-Nitroaniline
Concen: 4.45 ug/ml
RT: 6.794 min Scan# 1804
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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#

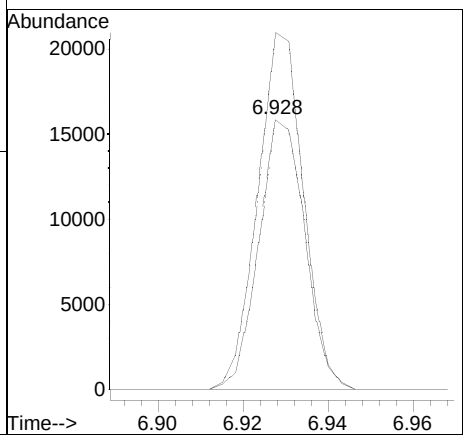


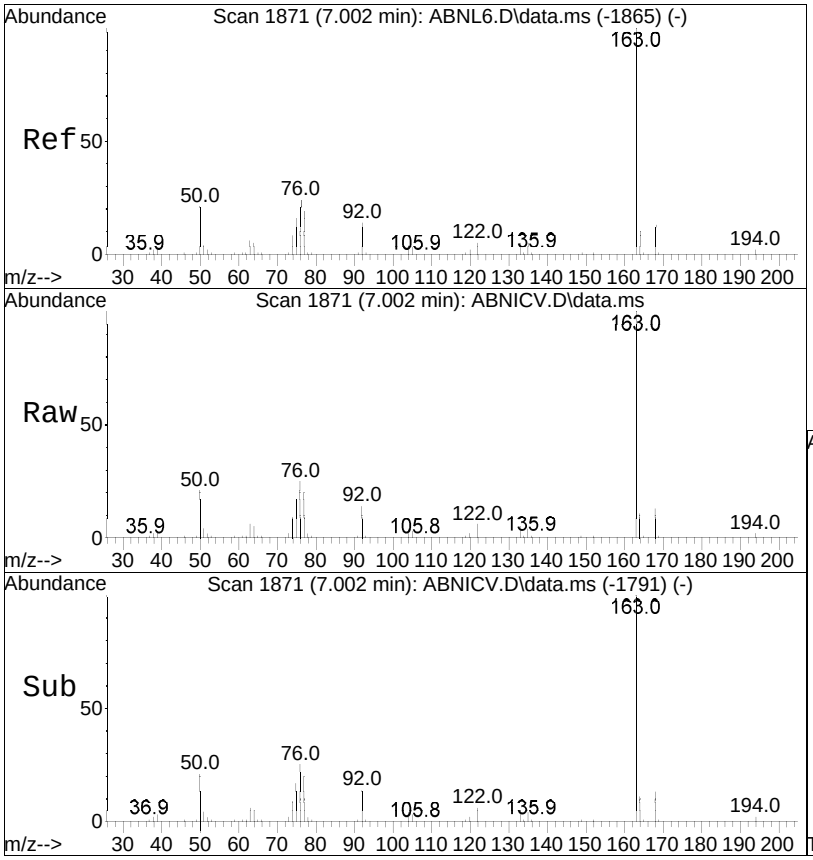


#51
1,4-Dinitrobenzene
Concen: 4.50 ug/ml
RT: 6.928 min Scan# 1847
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:168 Resp: 11911

Ion	Ratio	Lower	Upper
168	100		
75	131.0	121.8	182.8

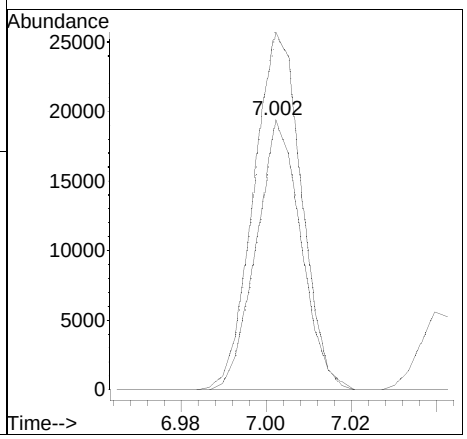


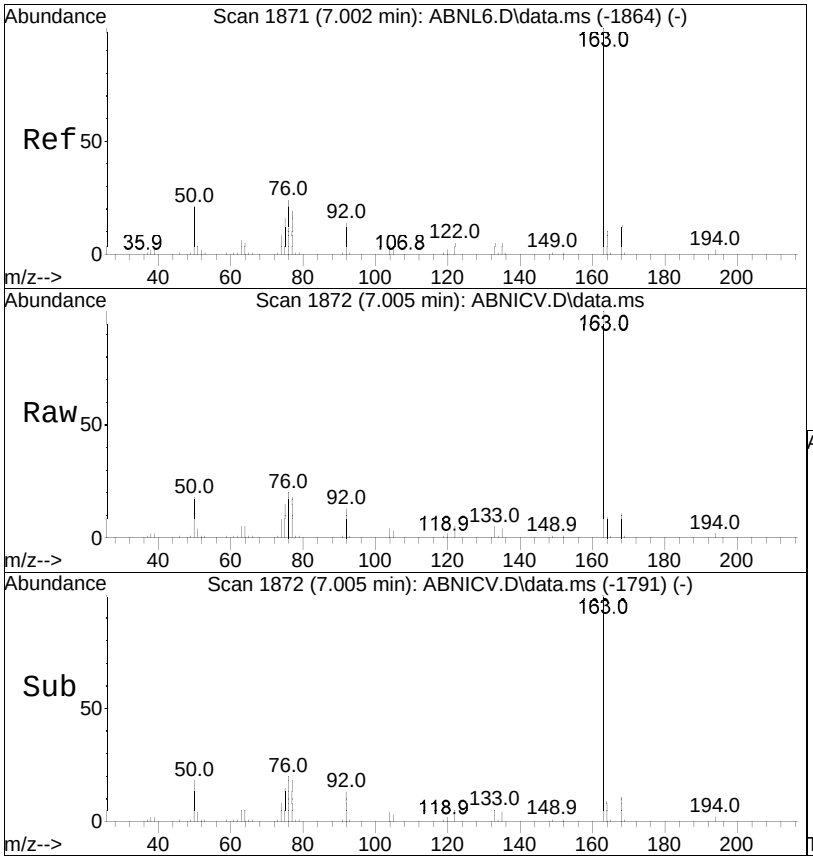


#52
1,3-Dinitrobenzene
Concen: 4.43 ug/ml
RT: 7.002 min Scan# 1871
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:168 Resp: 14057

Ion	Ratio	Lower	Upper
168	100		
75	141.5	22.7	34.1#

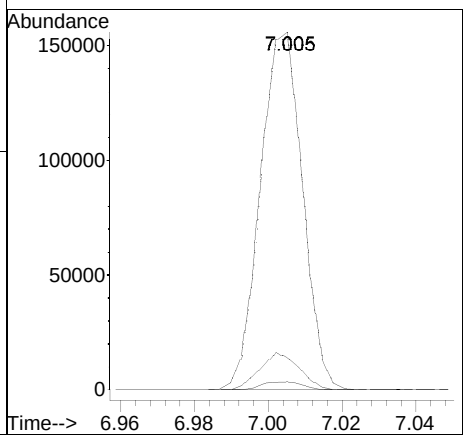


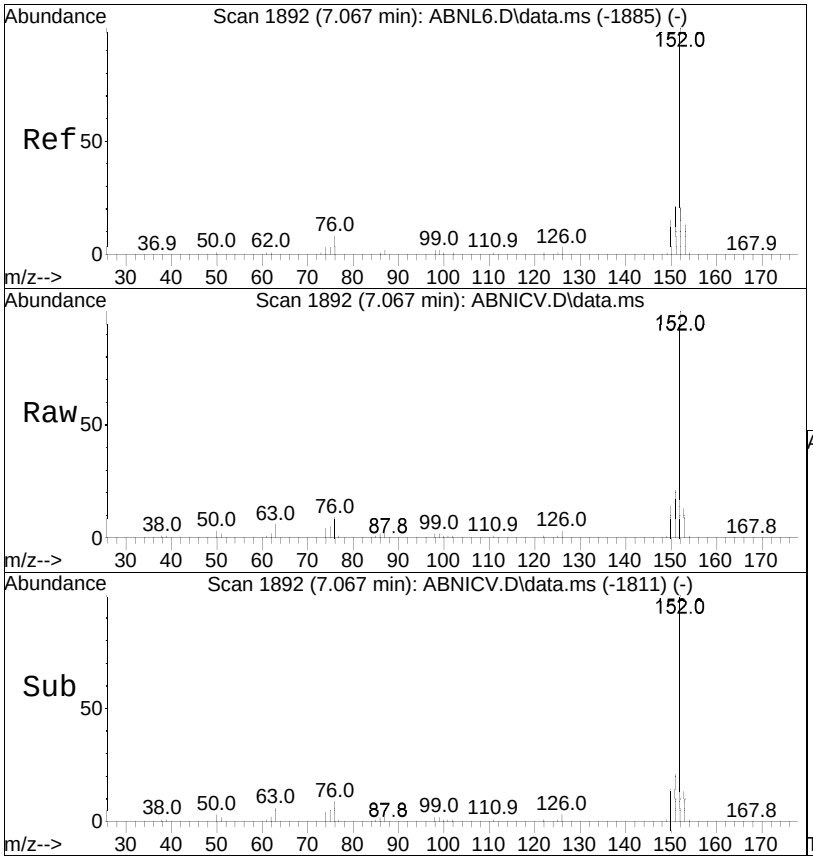


#53
Dimethyl phthalate
Concen: 4.44 ug/ml
RT: 7.005 min Scan# 1872
Delta R.T. 0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

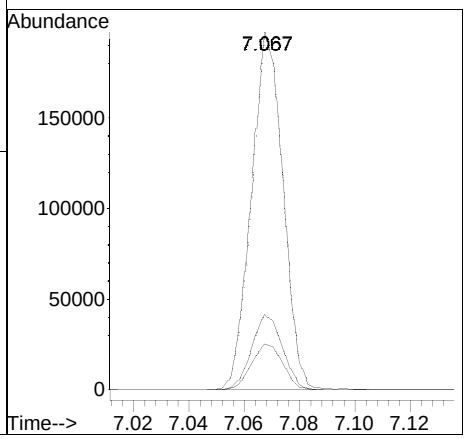


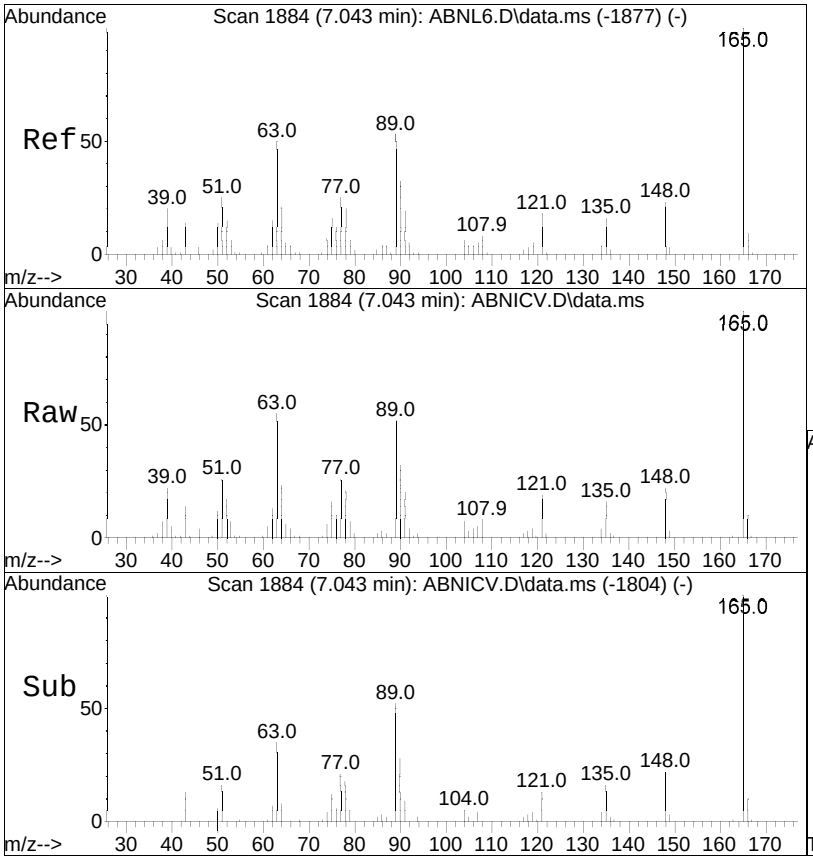


#54
Acenaphthylene
Concen: 4.44 ug/ml
RT: 7.067 min Scan# 1892
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

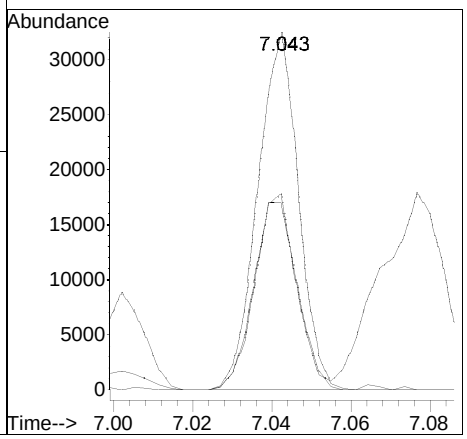


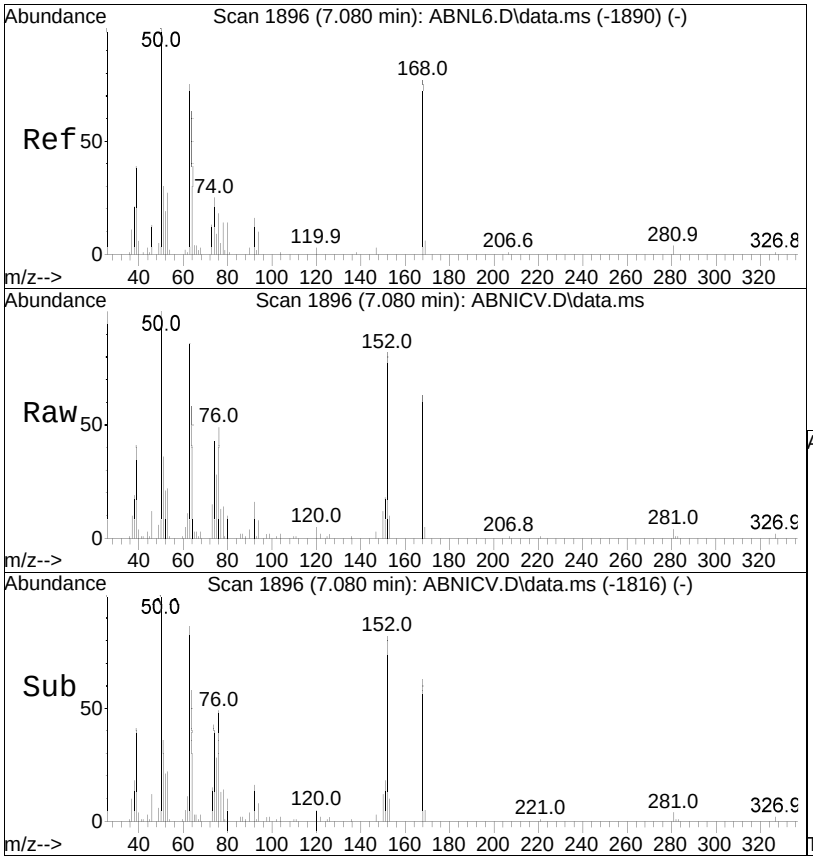


#55
2,6-Dinitrotoluene
Concen: 4.50 ug/ml
RT: 7.043 min Scan# 1884
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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#

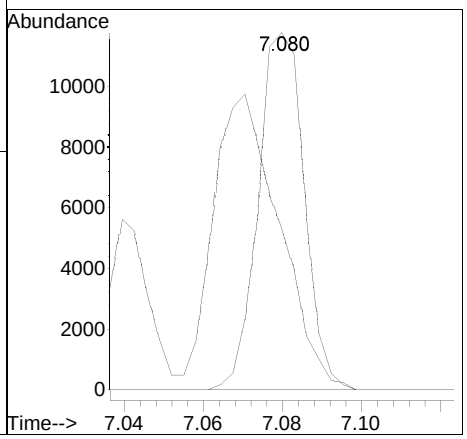


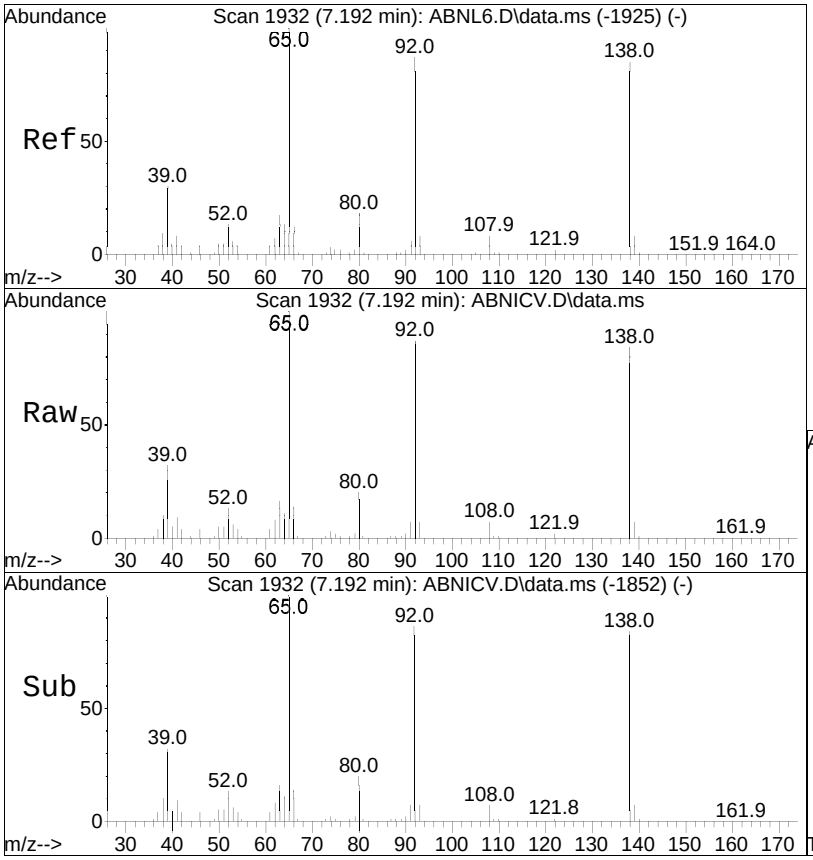


#56
1,2-Dinitrobenzene
Concen: 5.13 ug/ml
RT: 7.080 min Scan# 1896
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:168 Resp: 9499

Ion	Ratio	Lower	Upper
168	100		
75	118.0	30.9	46.3#

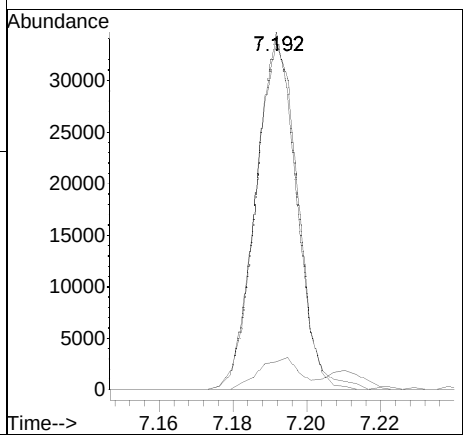


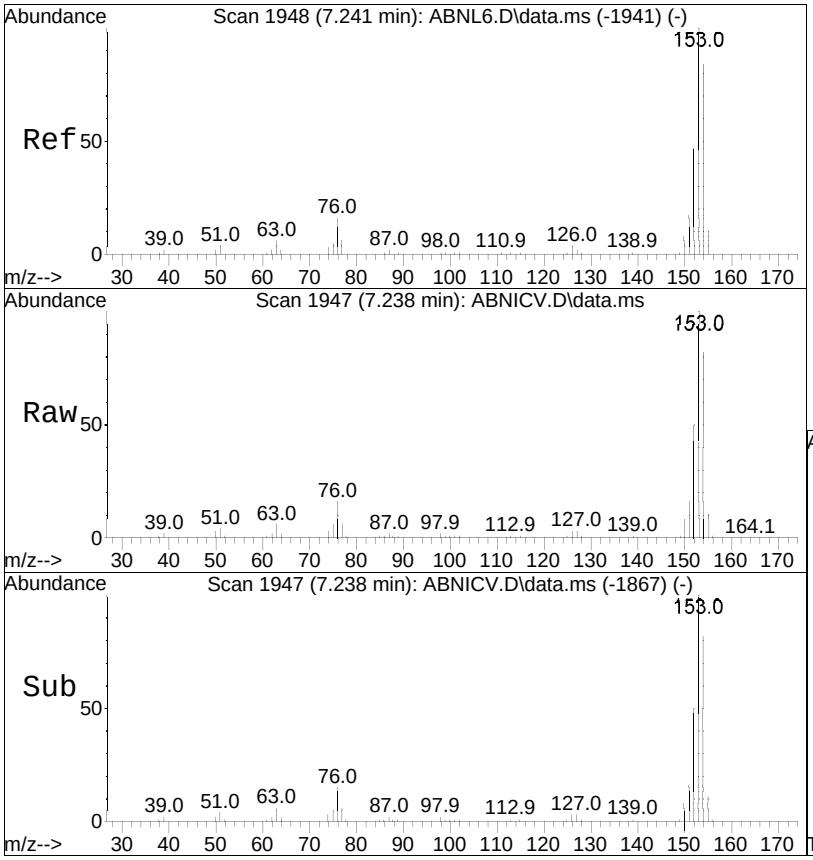


#66
3-Nitroaniline
Concen: 4.70 ug/ml
RT: 7.192 min Scan# 1932
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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#

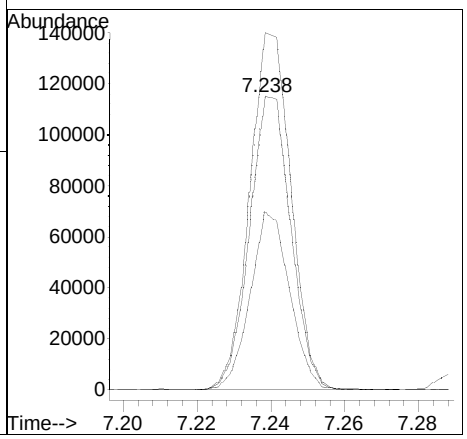


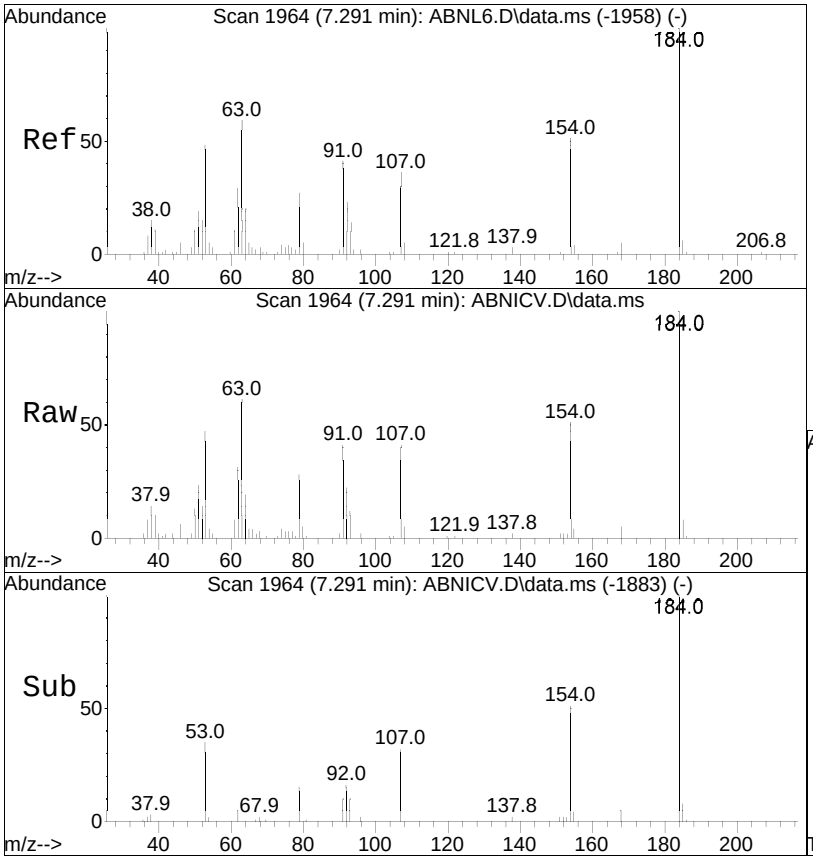


#67
Acenaphthene
Concen: 4.27 ug/ml
RT: 7.238 min Scan# 1947
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

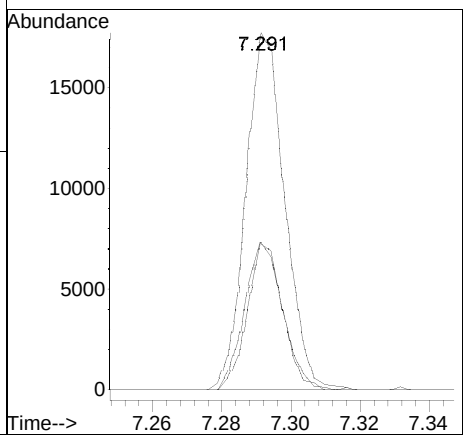


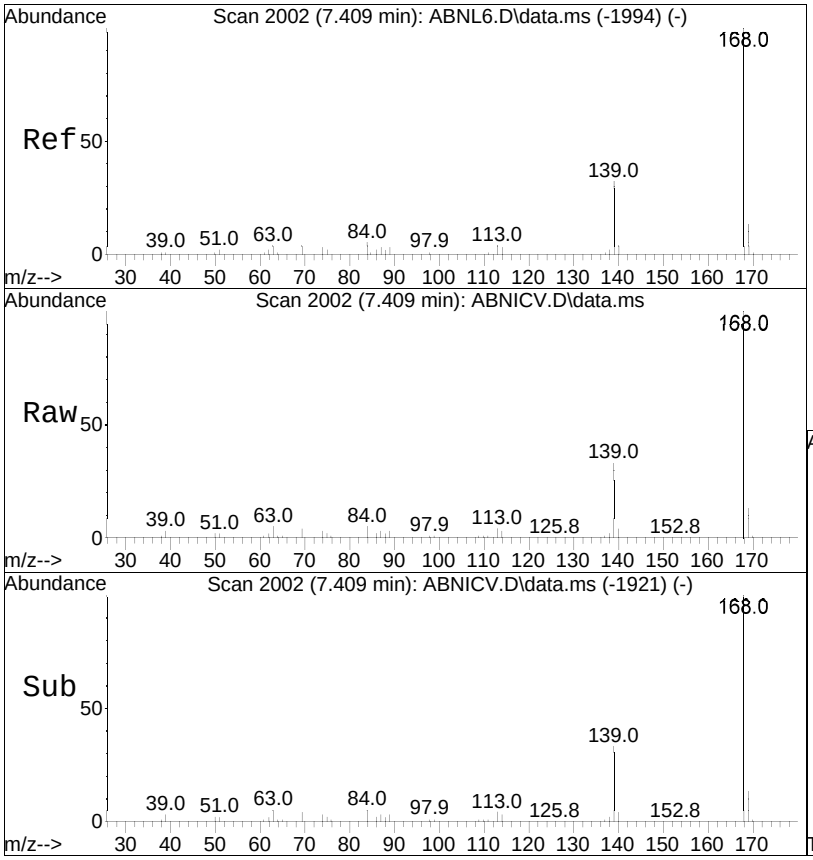


#68
2,4-Dinitrophenol
Concen: 4.13 ug/ml
RT: 7.291 min Scan# 1964
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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#

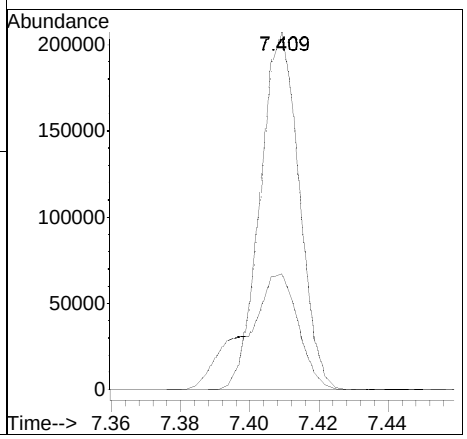


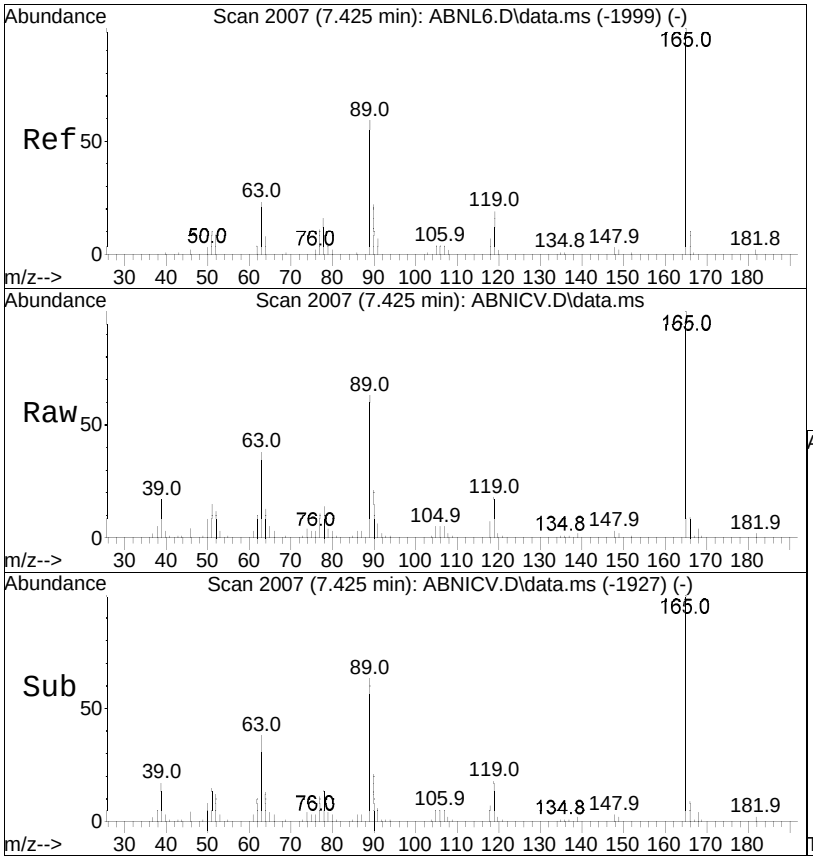


#69
Dibenzofuran
Concen: 4.45 ug/ml
RT: 7.409 min Scan# 2002
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:168 Resp: 160445

Ion	Ratio	Lower	Upper
168	100		
139	45.7	31.4	47.2

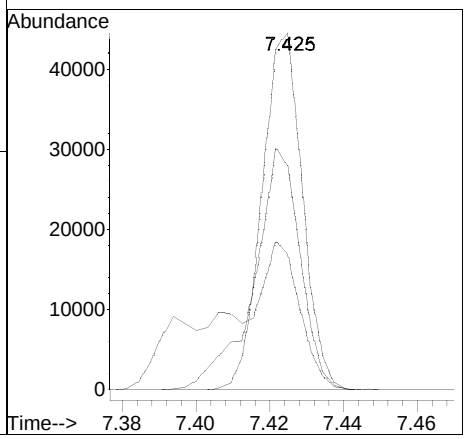


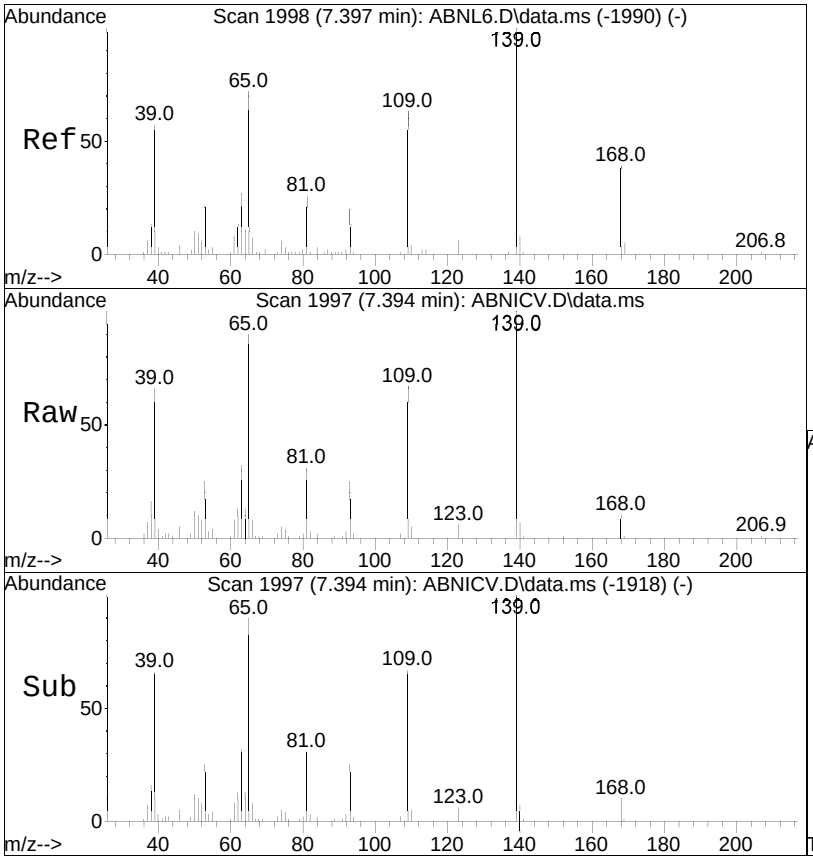


#70
2,4-Dinitrotoluene
Concen: 4.84 ug/ml
RT: 7.425 min Scan# 2007
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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#

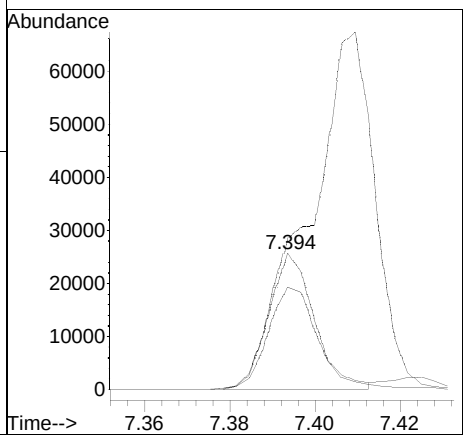


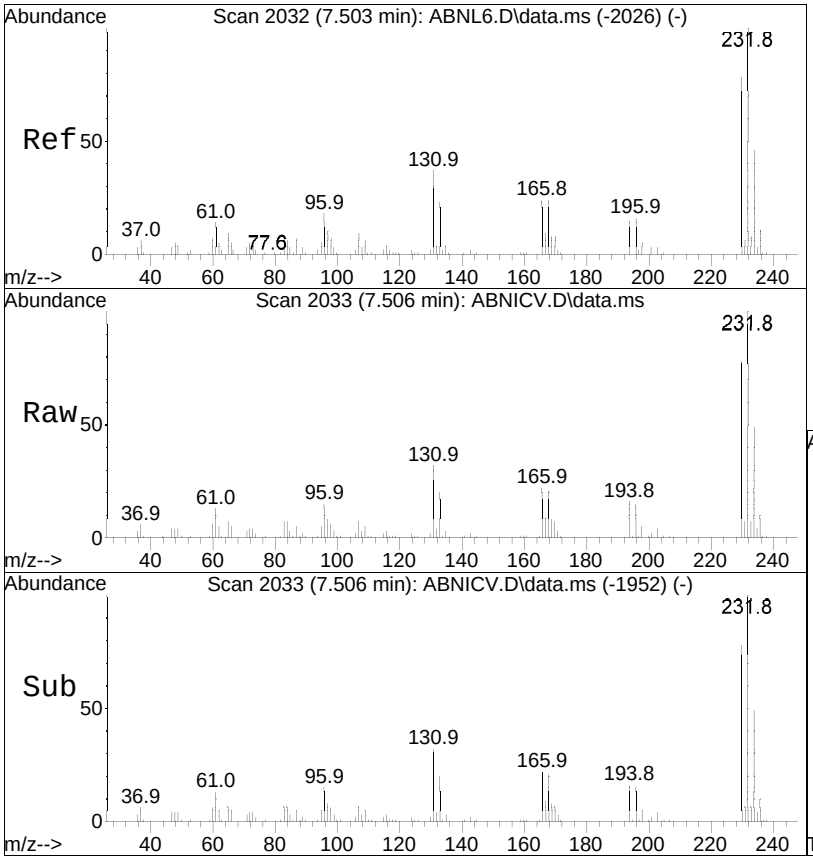


#71
4-Nitrophenol
Concen: 4.67 ug/ml
RT: 7.394 min Scan# 1997
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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#

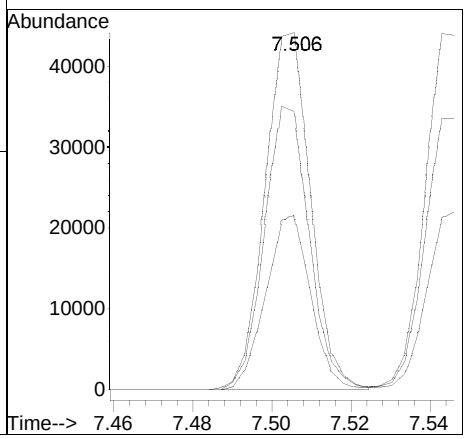


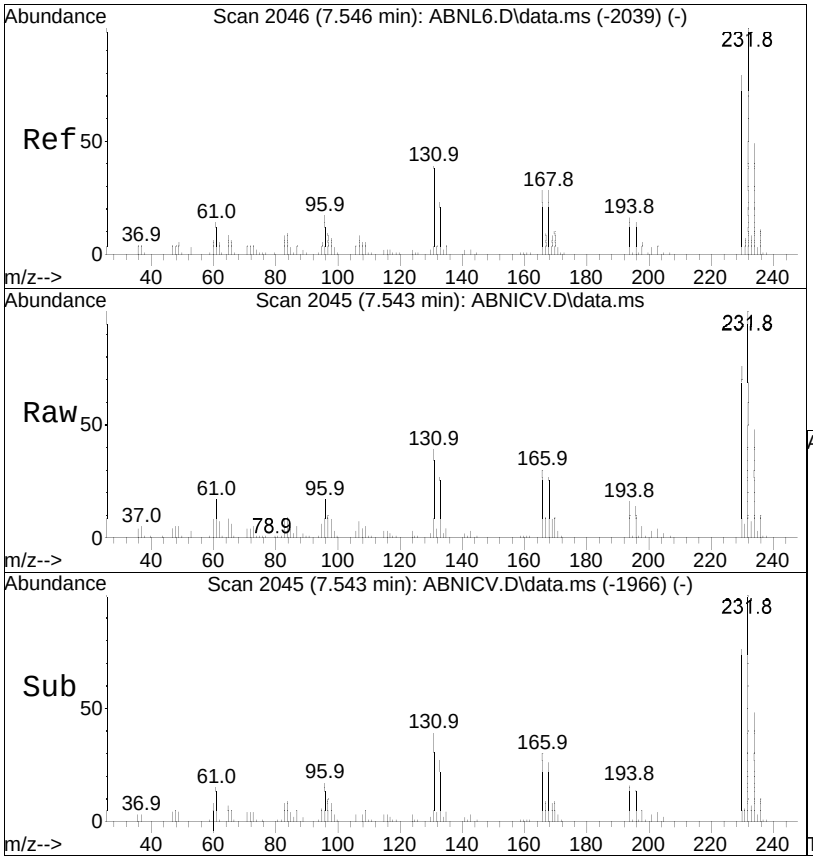


#72
2,3,5,6-Tetrachlorophenol
Concen: 4.52 ug/ml
RT: 7.506 min Scan# 2033
Delta R.T. 0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

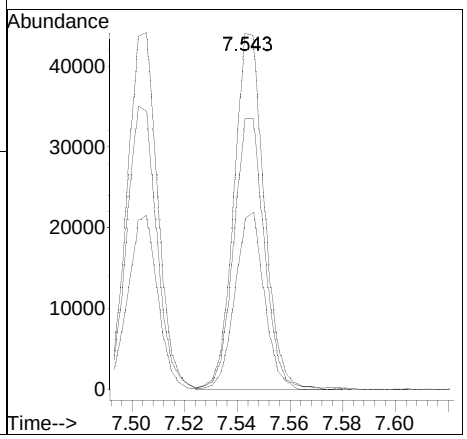


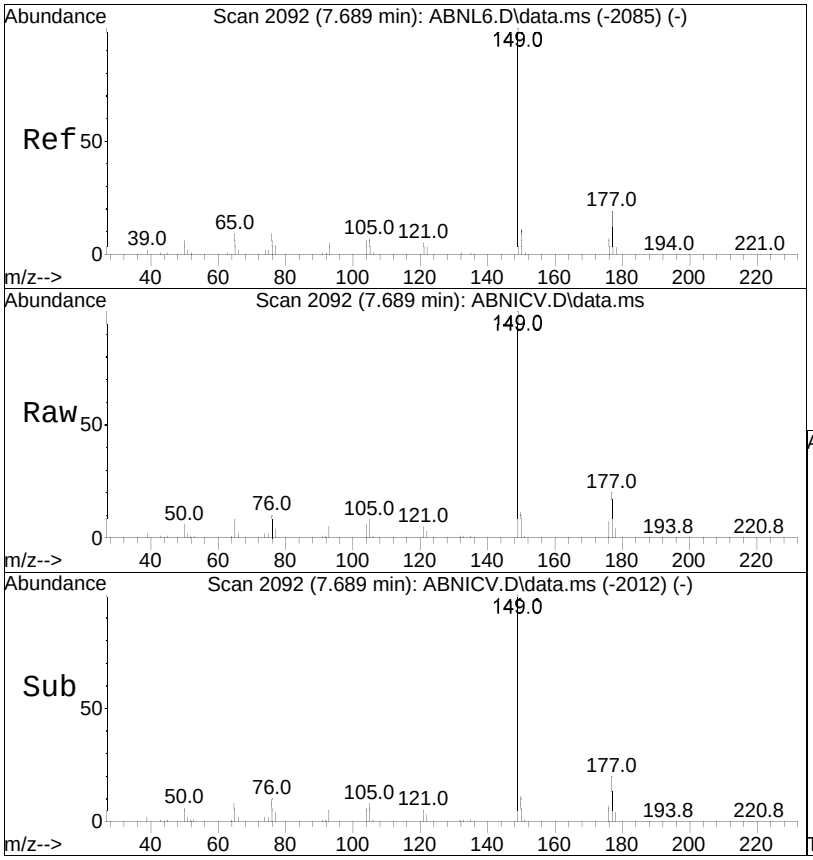


#73
2,3,4,6-Tetrachlorophenol
Concen: 4.63 ug/ml
RT: 7.543 min Scan# 2045
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

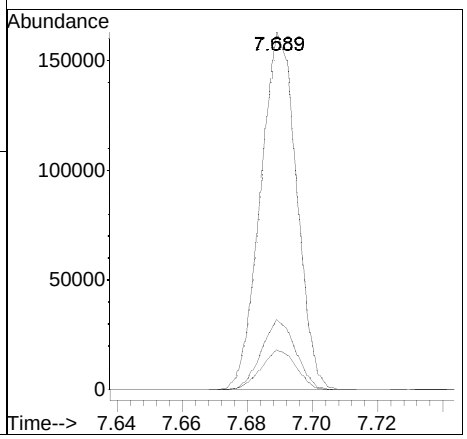


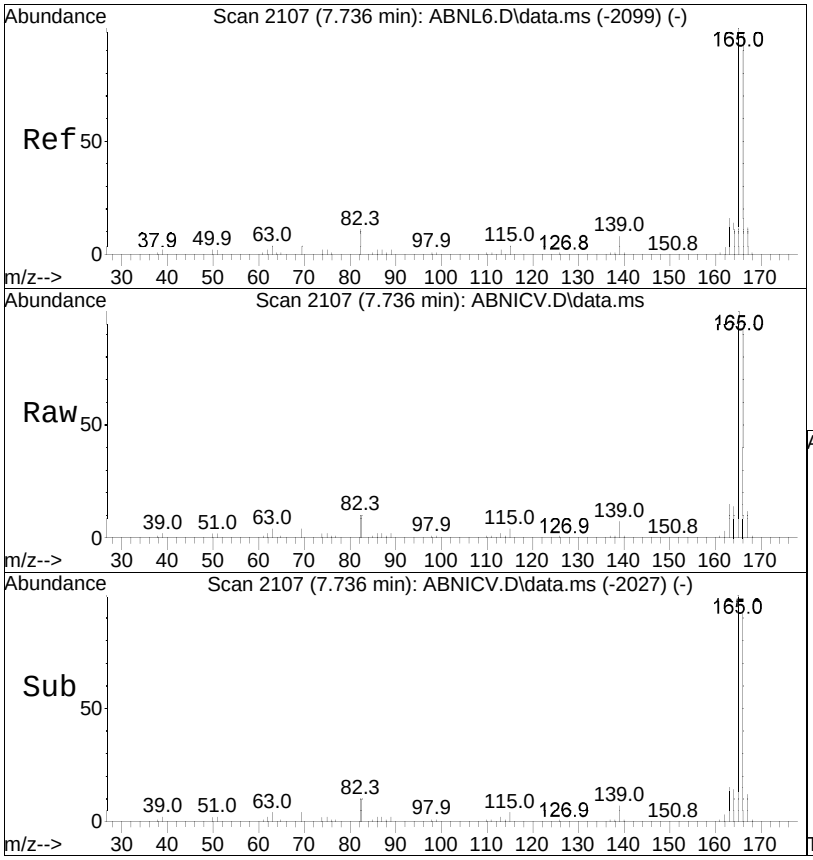


#74
Diethyl phthalate
Concen: 4.38 ug/ml
RT: 7.689 min Scan# 2092
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

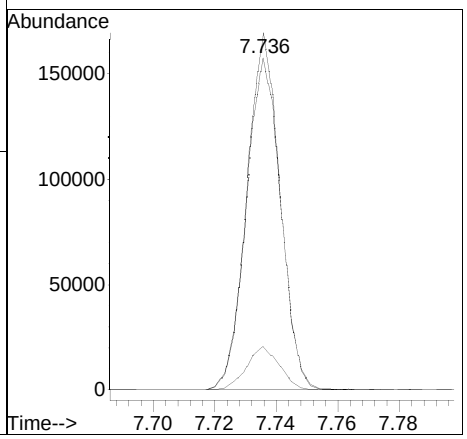


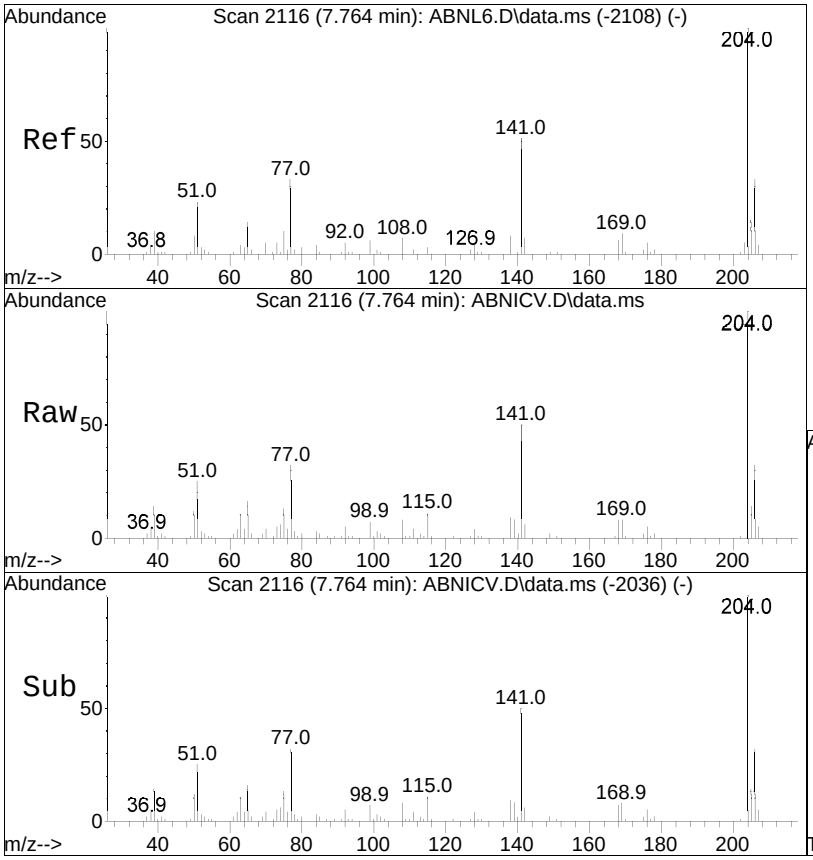


#75
Fluorene
Concen: 4.42 ug/ml
RT: 7.736 min Scan# 2107
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

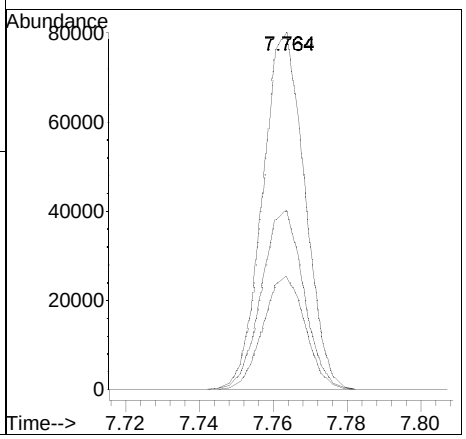


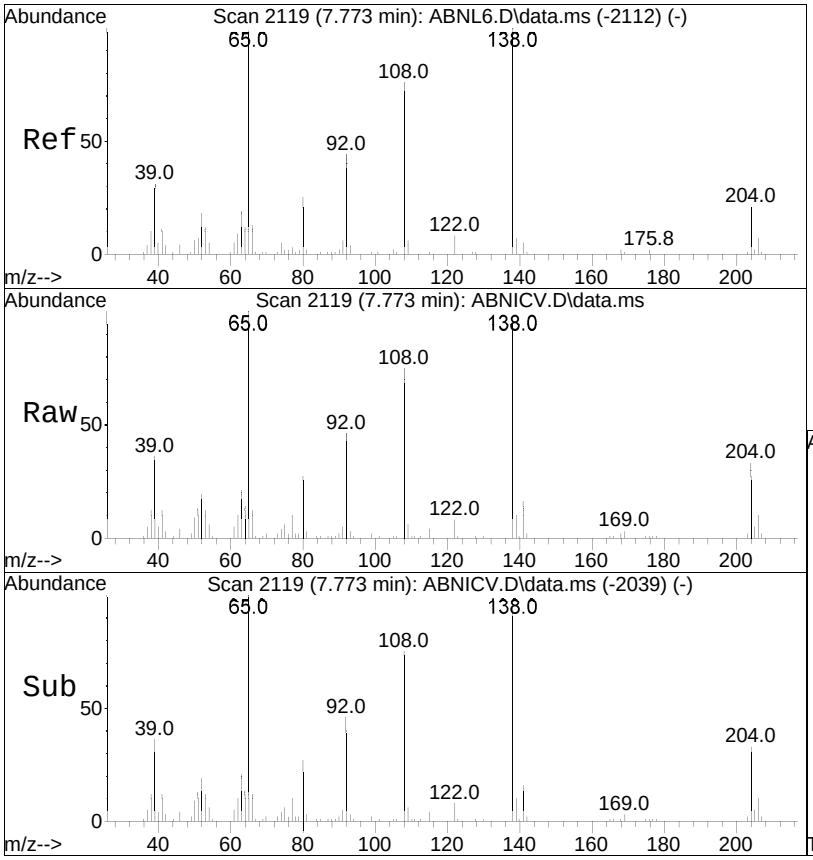


#76
4-Chlorophenyl phenyl ether
Concen: 4.43 ug/ml
RT: 7.764 min Scan# 2116
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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#

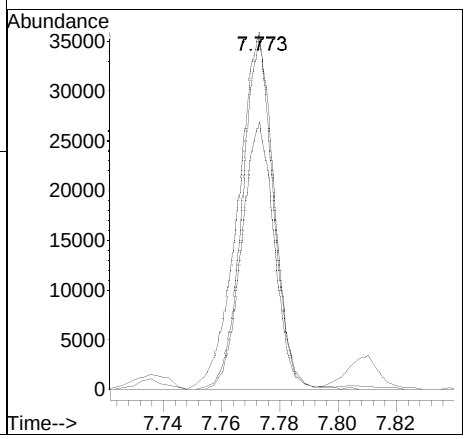


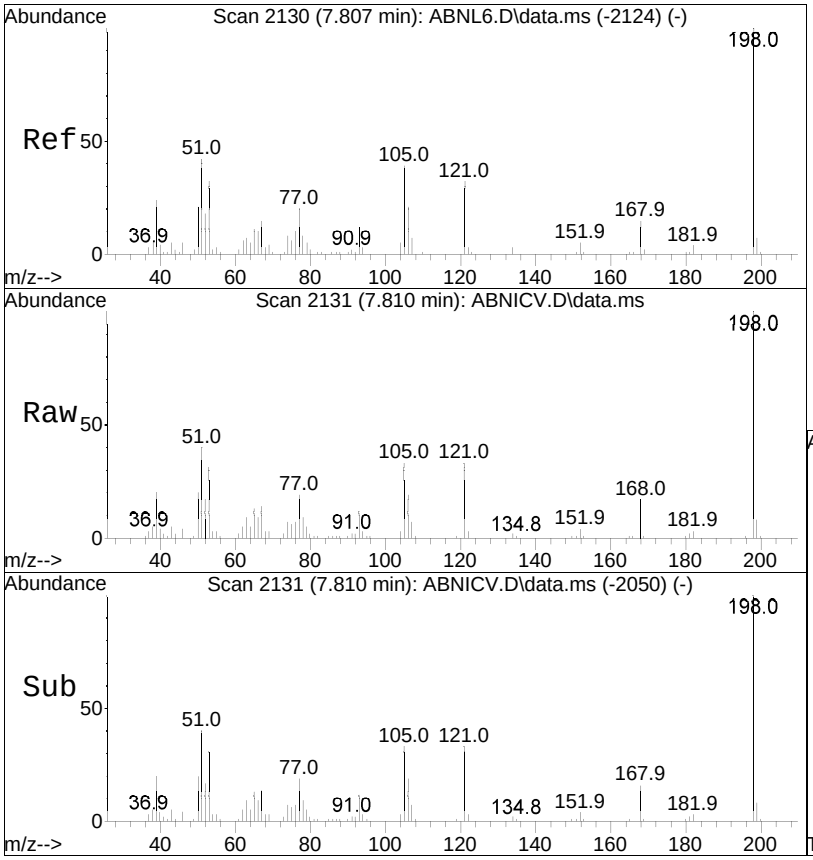


#77
4-Nitroaniline
Concen: 5.02 ug/ml
RT: 7.773 min Scan# 2119
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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#

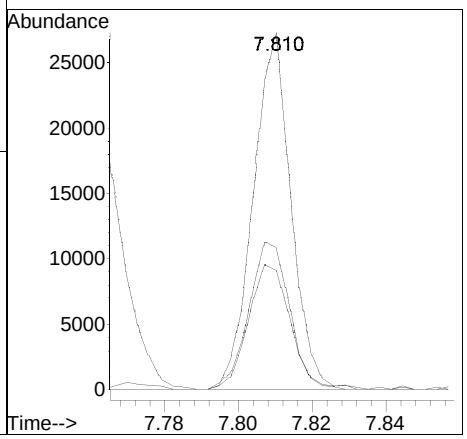


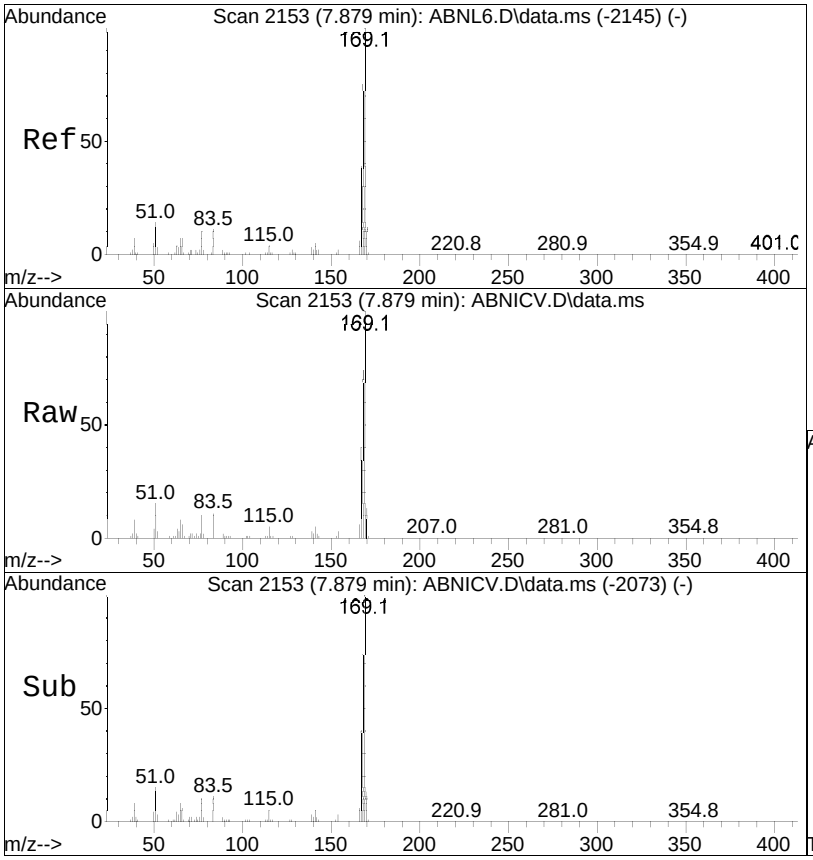


#78
4,6-Dinitro-o-cresol
Concen: 4.61 ug/ml
RT: 7.810 min Scan# 2131
Delta R.T. 0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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#

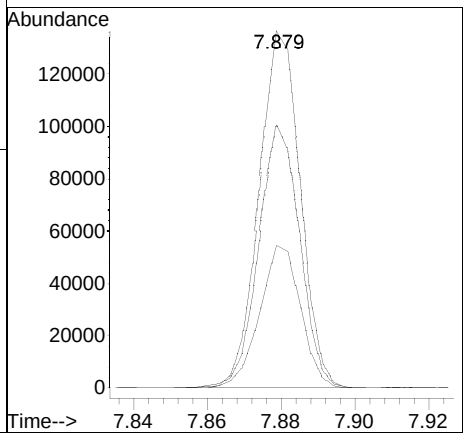


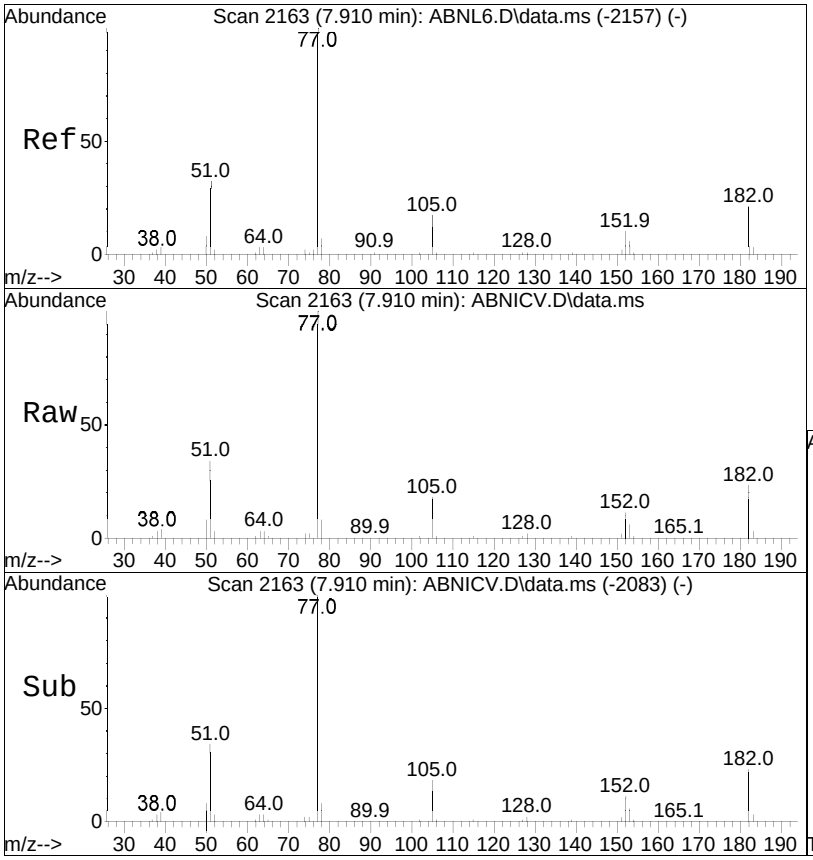


#79
NDPA/DPA
Concen: 4.40 ug/ml
RT: 7.879 min Scan# 2153
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

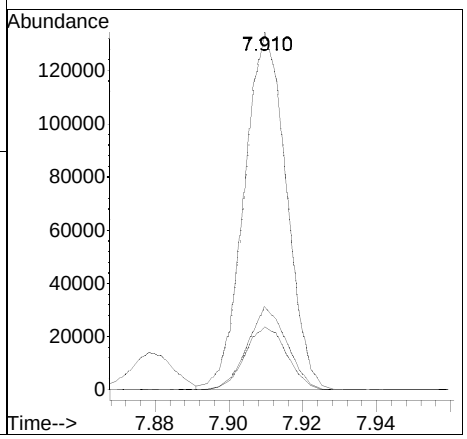


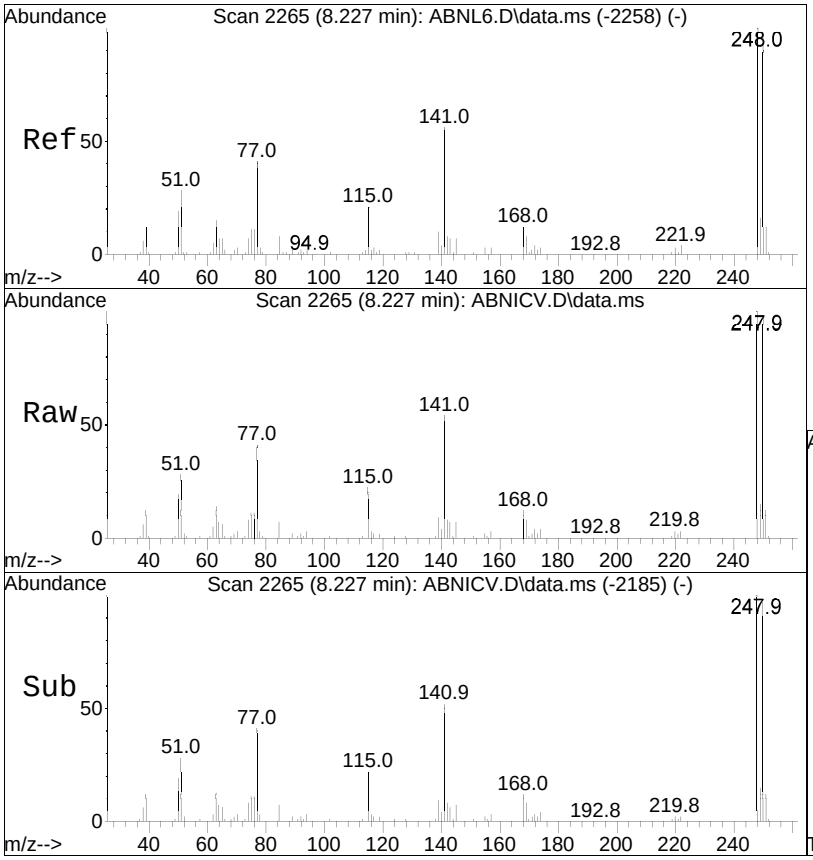


#80
Azobenzene
Concen: 4.60 ug/ml
RT: 7.910 min Scan# 2163
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

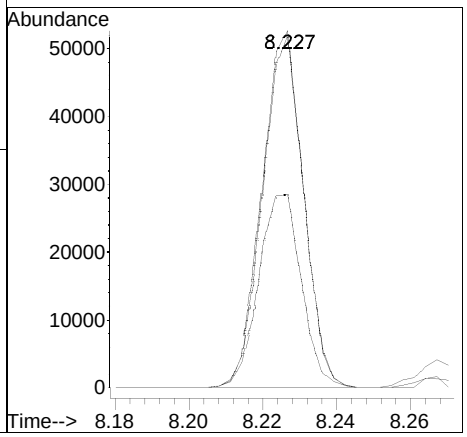


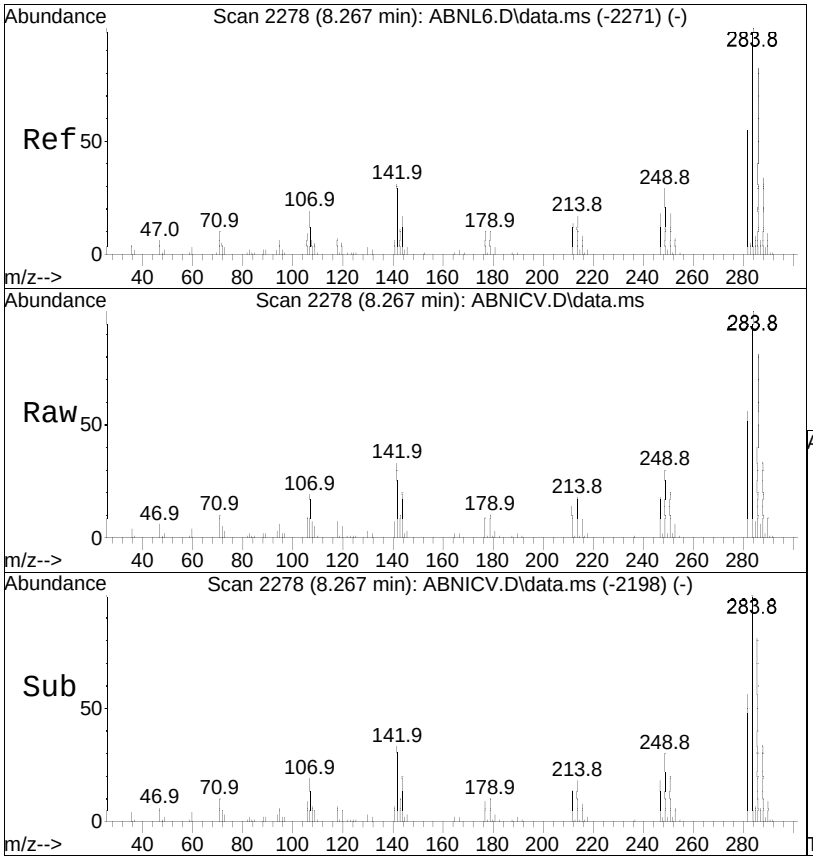


#82
4-Bromophenyl phenyl ether
Concen: 4.36 ug/ml
RT: 8.227 min Scan# 2265
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

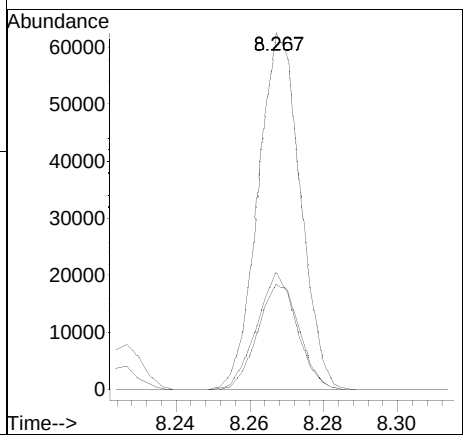


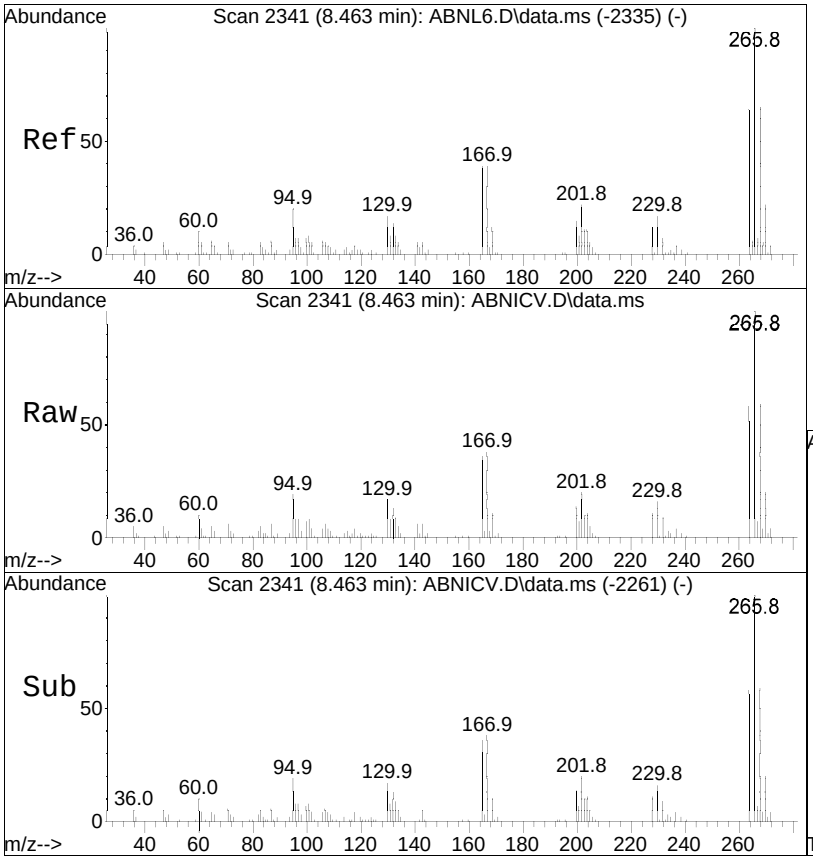


#83
Hexachlorobenzene
Concen: 4.21 ug/ml
RT: 8.267 min Scan# 2278
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

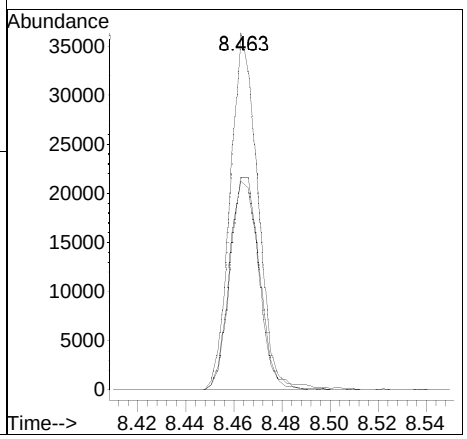


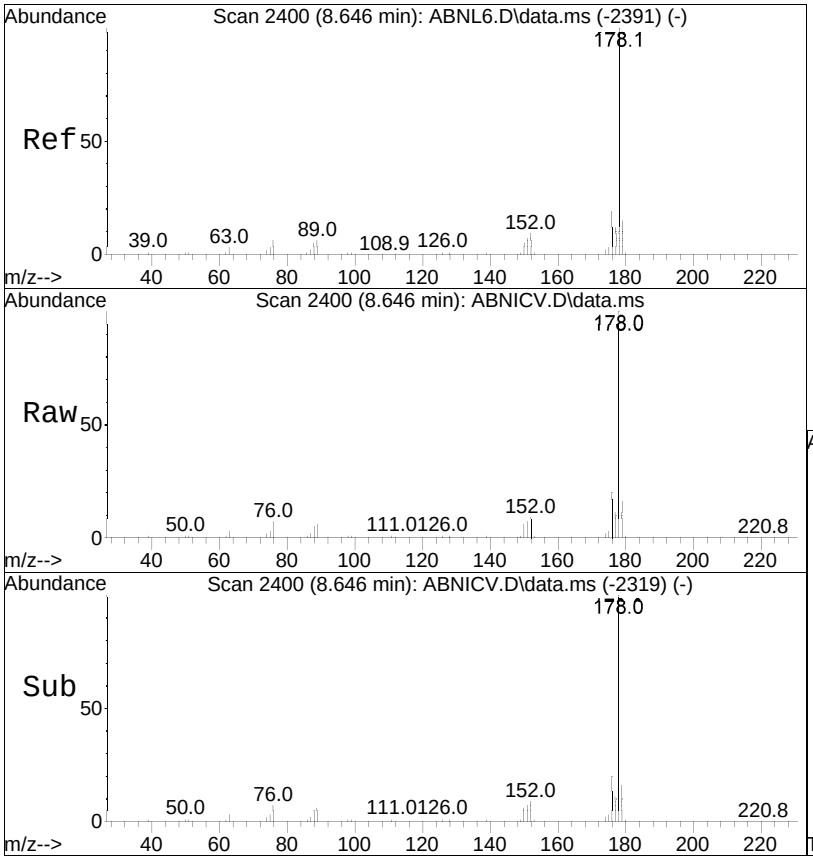


#84
Pentachlorophenol
Concen: 4.55 ug/ml
RT: 8.463 min Scan# 2341
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

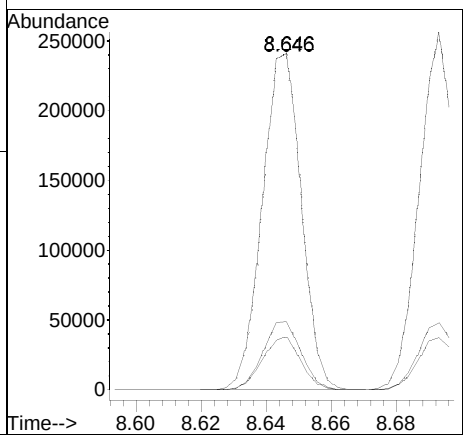


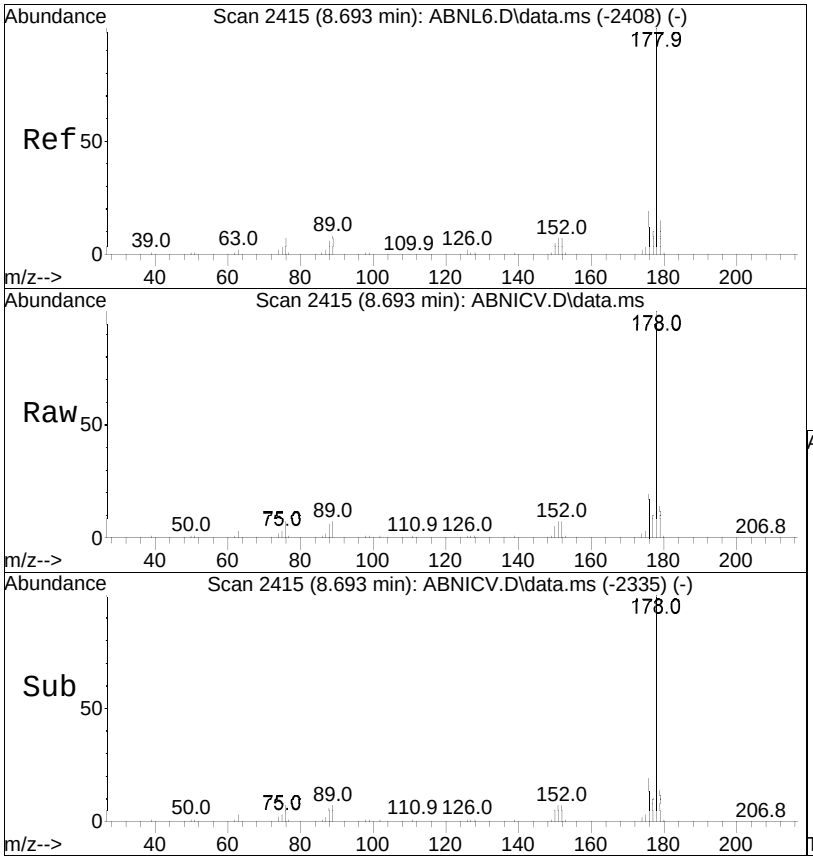


#91
Phenanthrene
Concen: 4.41 ug/ml
RT: 8.646 min Scan# 2400
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

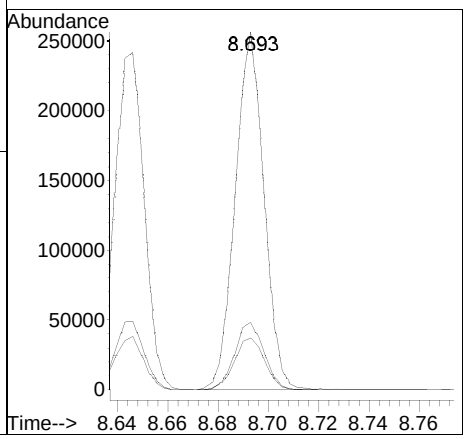


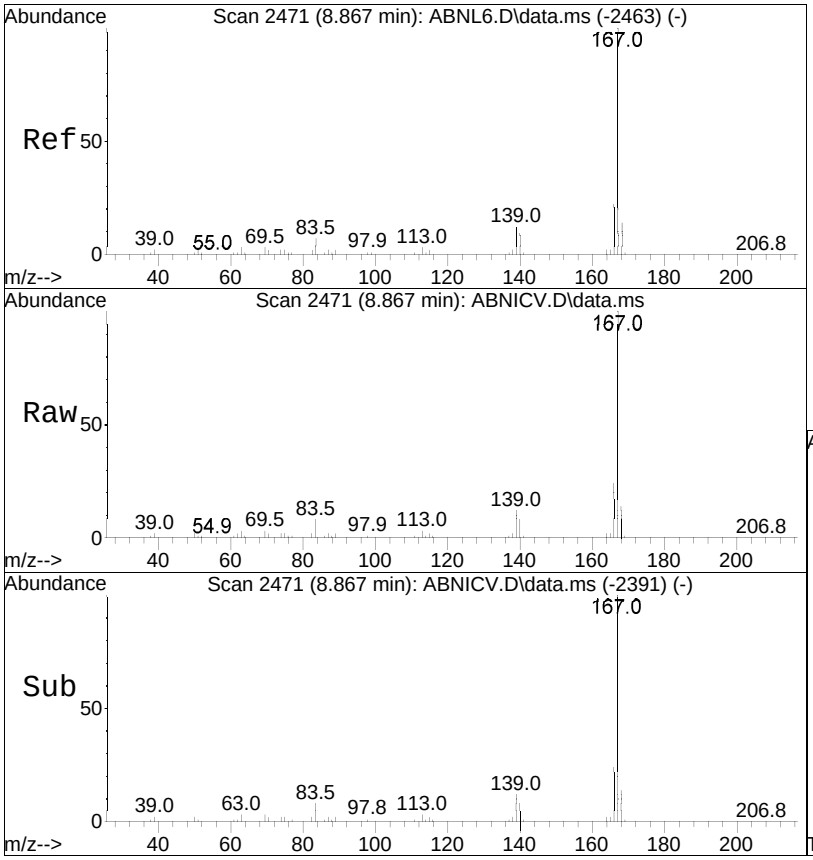


#92
Anthracene
Concen: 4.57 ug/ml
RT: 8.693 min Scan# 2415
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

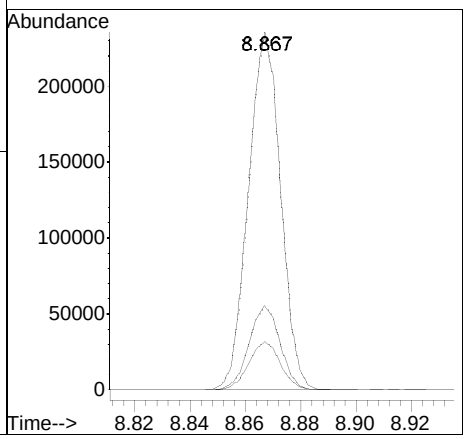


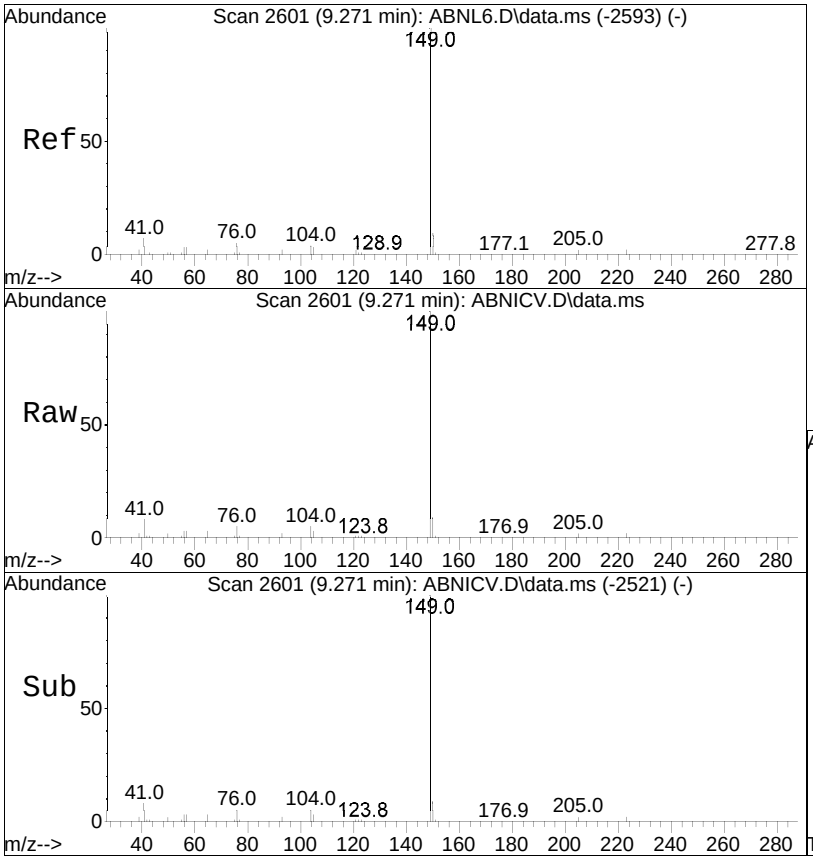


#93
Carbazole
Concen: 4.61 ug/ml
RT: 8.867 min Scan# 2471
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

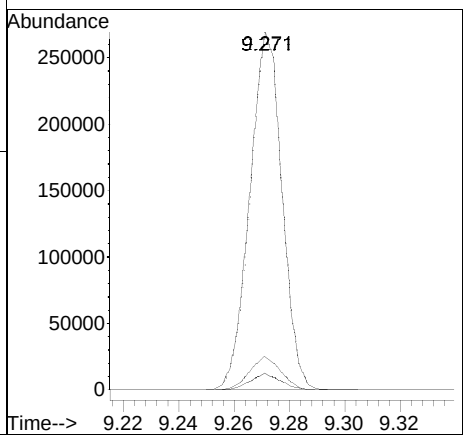


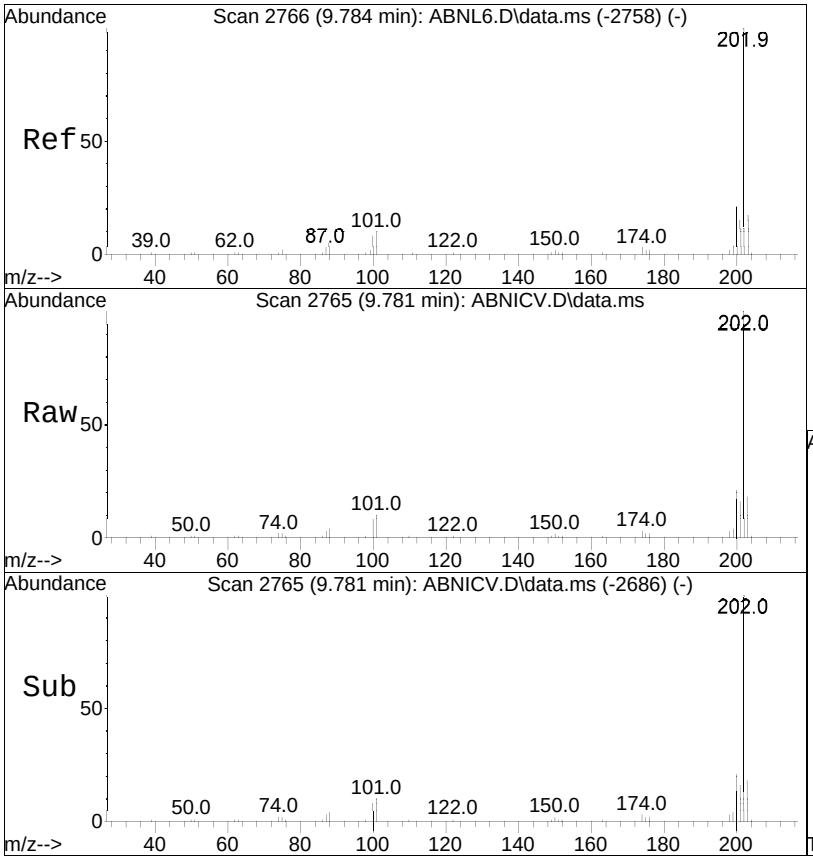


#94
Di-n-butylphthalate
Concen: 4.64 ug/ml
RT: 9.271 min Scan# 2601
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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#

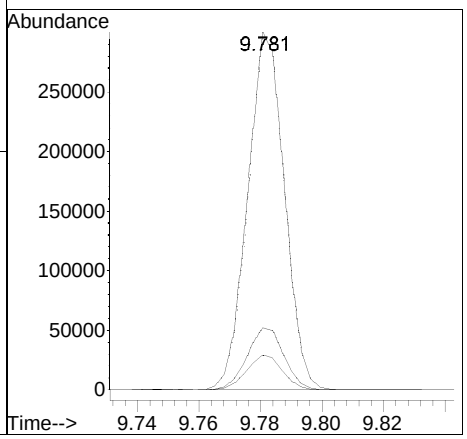


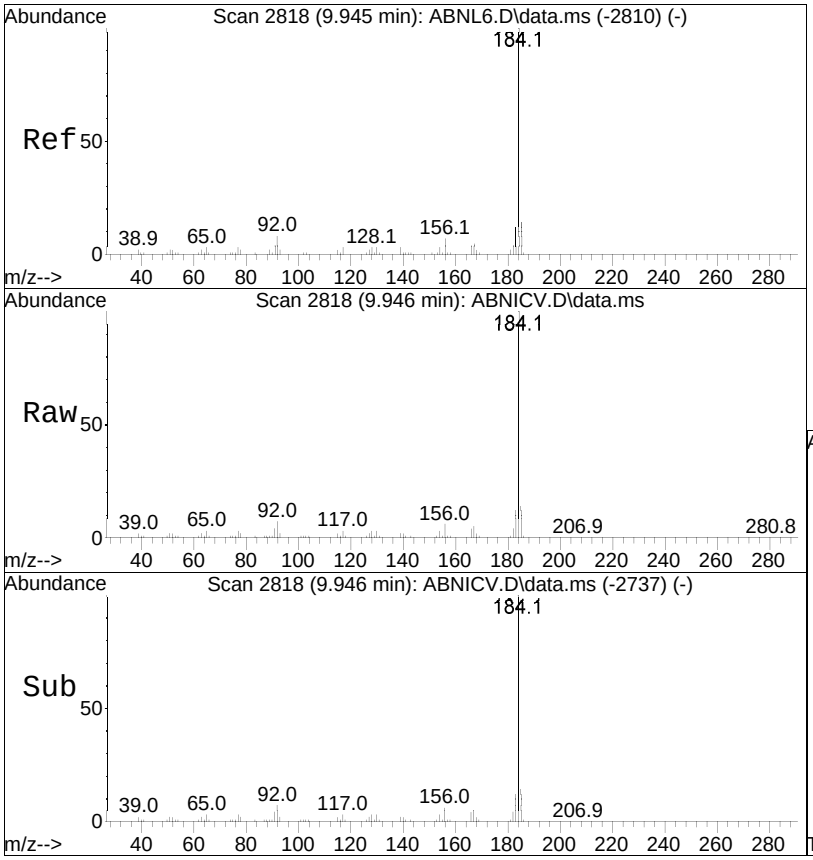


#95
Fluoranthene
Concen: 4.53 ug/ml
RT: 9.781 min Scan# 2765
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

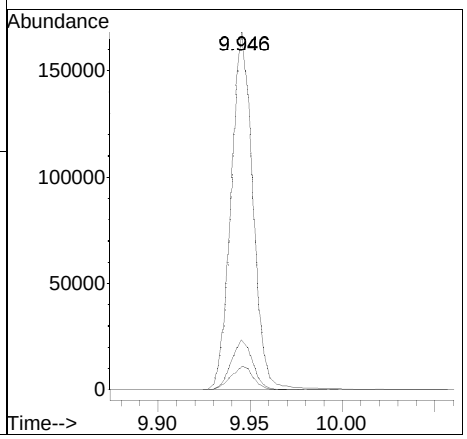


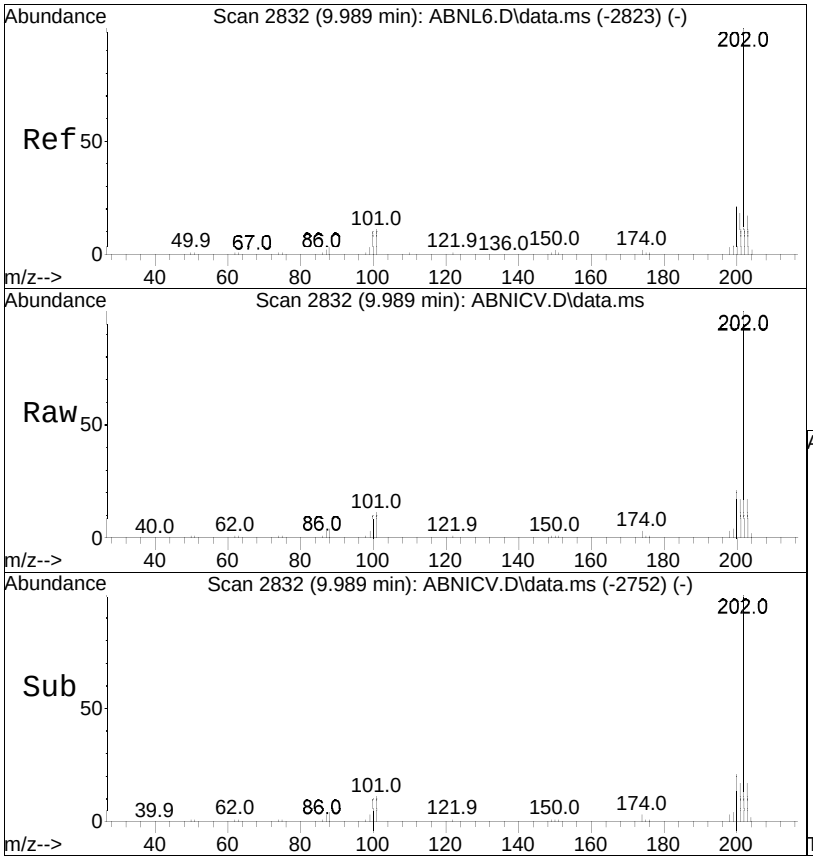


#96
Benzidine
Concen: 4.63 ug/ml
RT: 9.946 min Scan# 2818
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

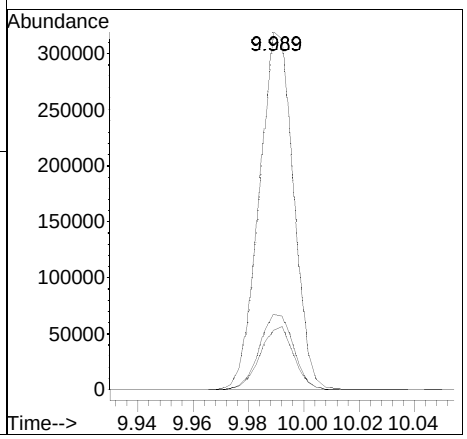


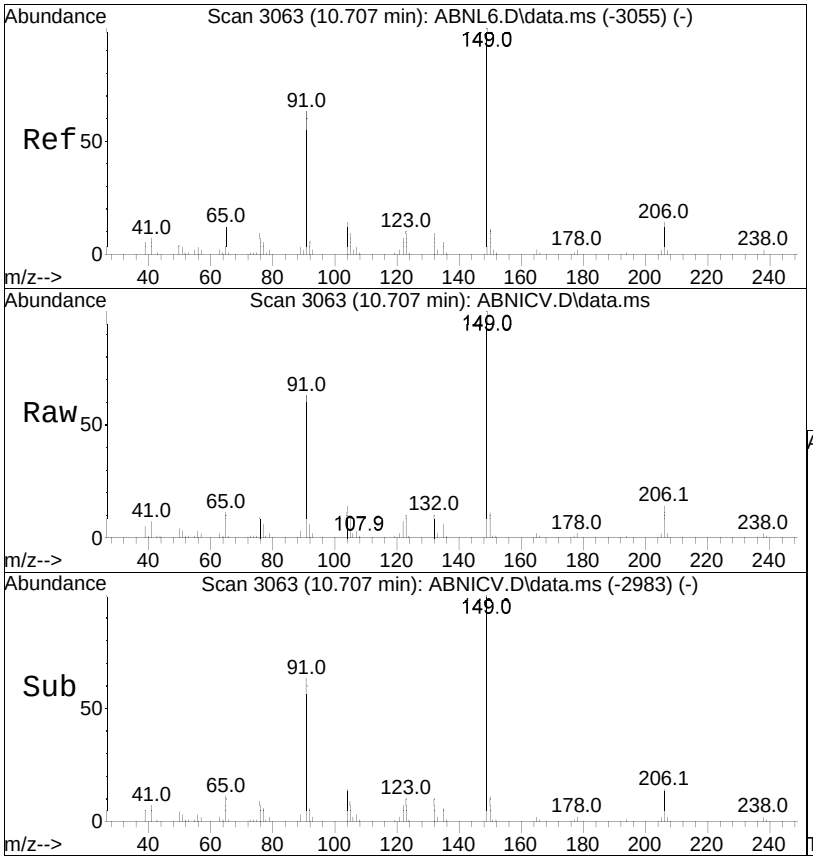


#97
Pyrene
Concen: 4.67 ug/ml
RT: 9.989 min Scan# 2832
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

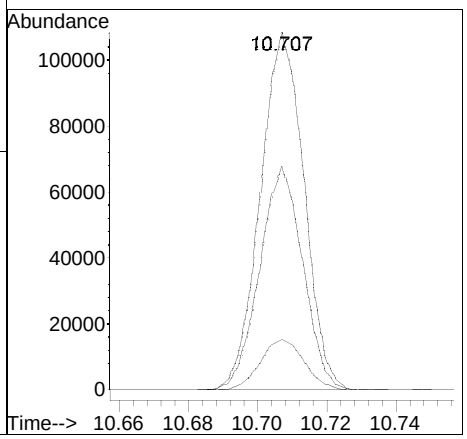


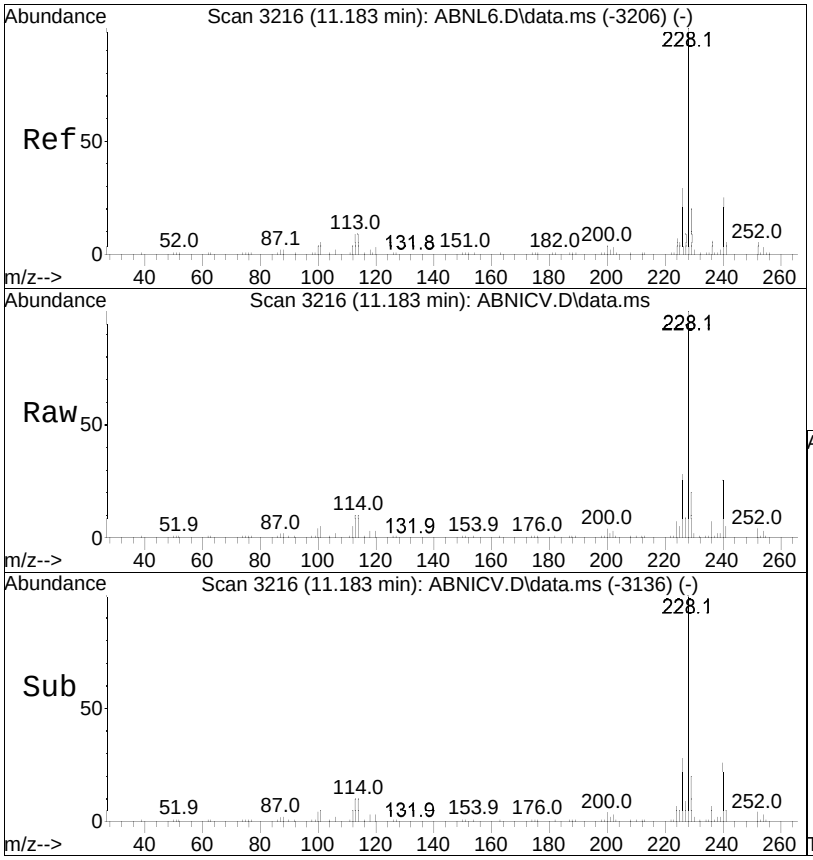


#99
Butyl benzyl phthalate
Concen: 4.75 ug/ml
RT: 10.707 min Scan# 3063
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

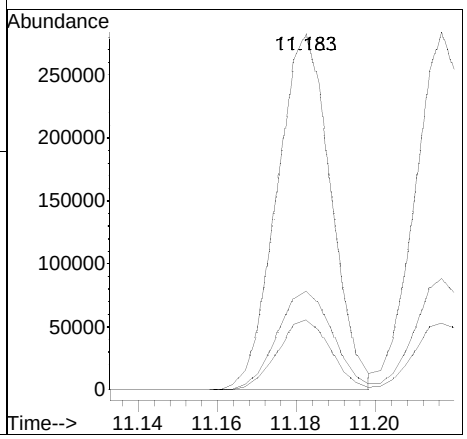


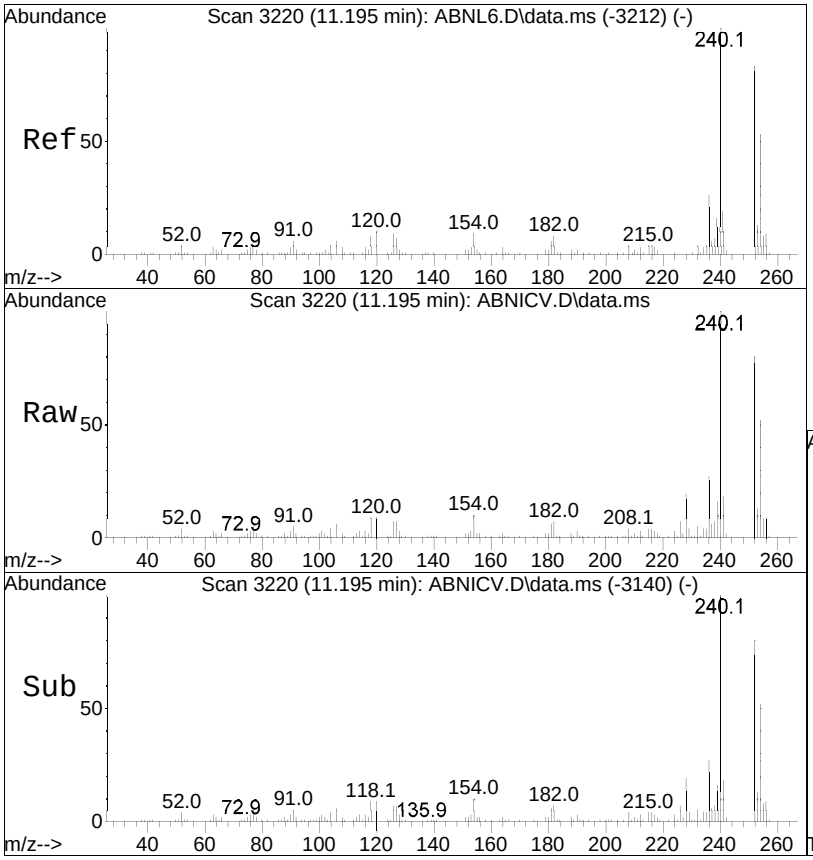


#107
Benzo(a)anthracene
Concen: 4.44 ug/ml
RT: 11.183 min Scan# 3216
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

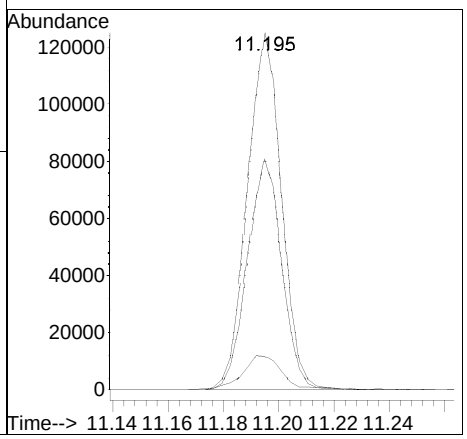


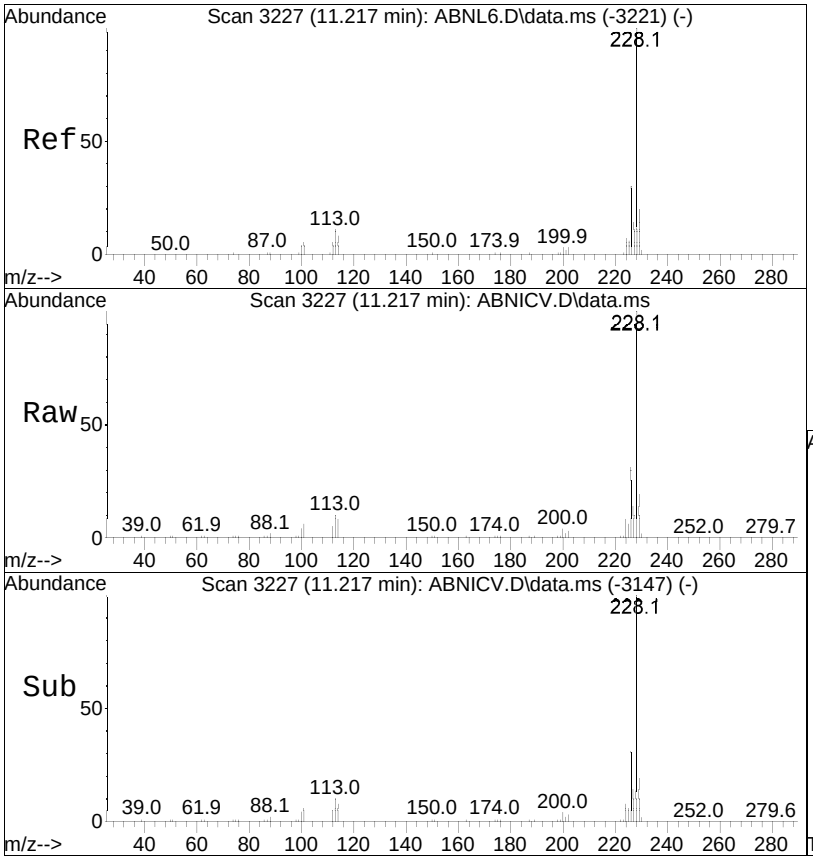


#108
3,3'-Dichlorobenzidine
Concen: 4.76 ug/ml
RT: 11.195 min Scan# 3220
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

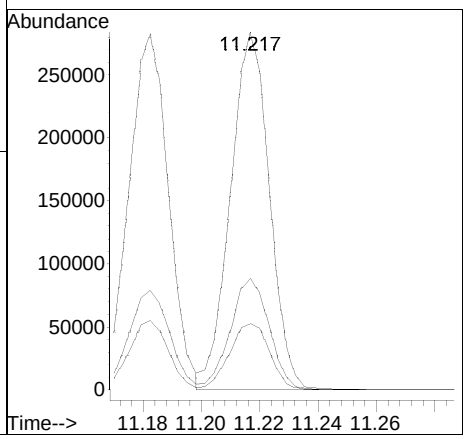


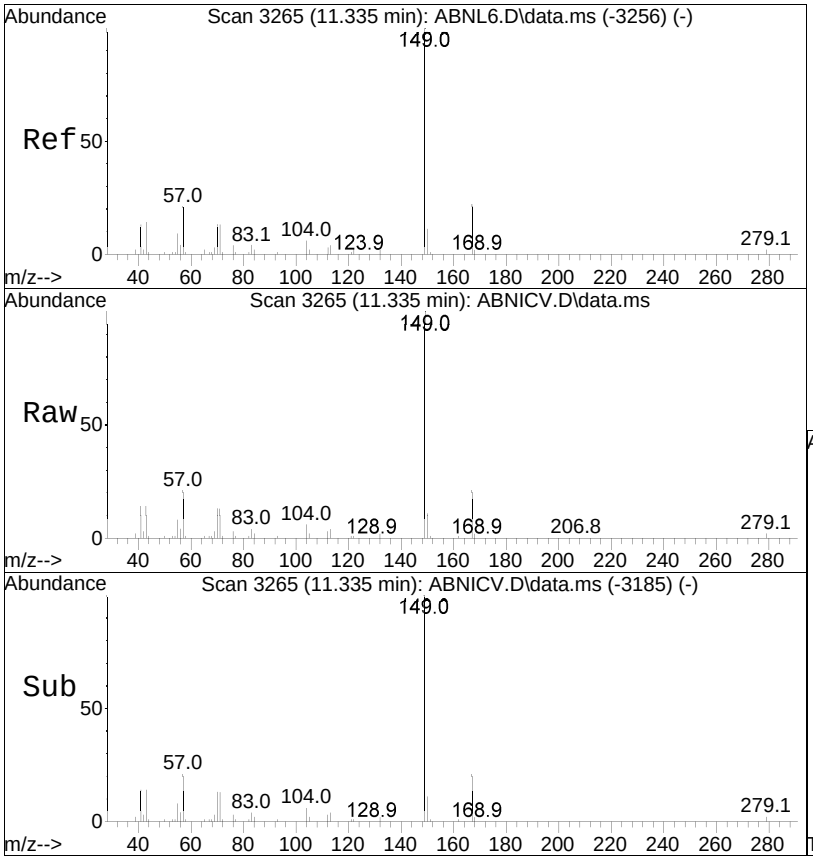


#109
Chrysene
Concen: 4.40 ug/ml
RT: 11.217 min Scan# 3227
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

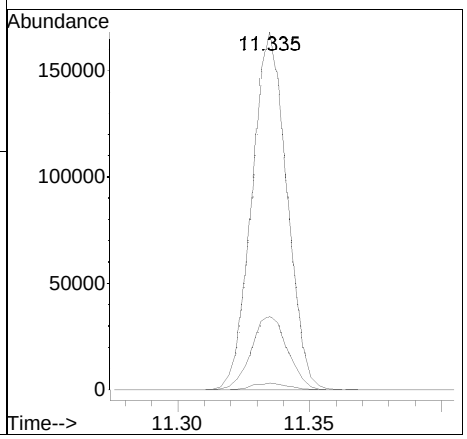


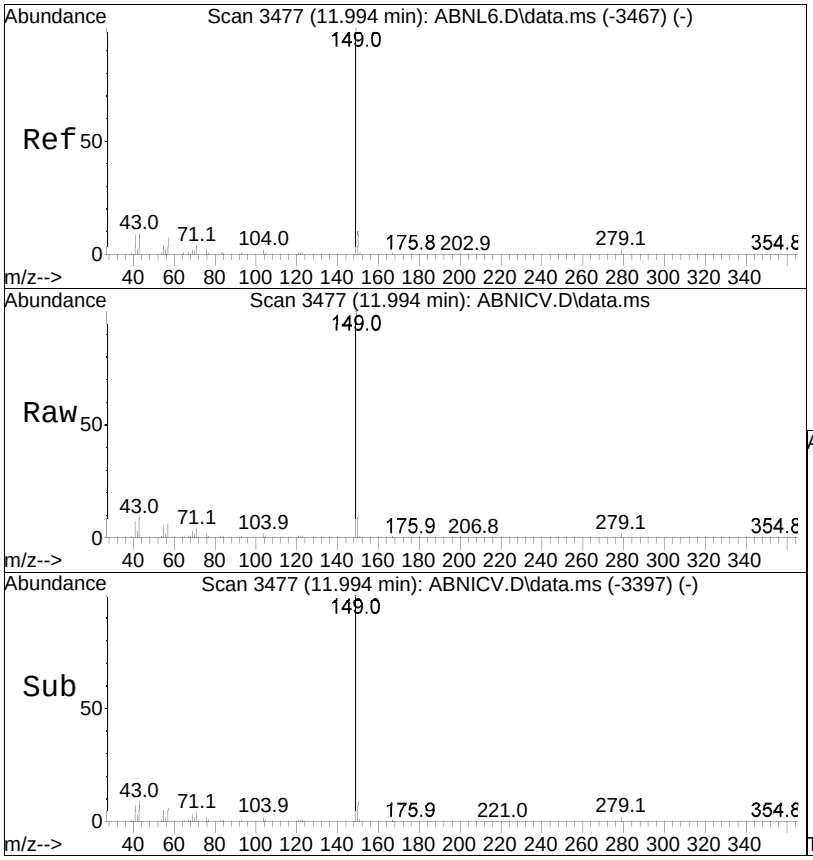


#110
Bis(2-ethylhexyl)phthalate
Concen: 4.74 ug/ml
RT: 11.335 min Scan# 3265
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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#

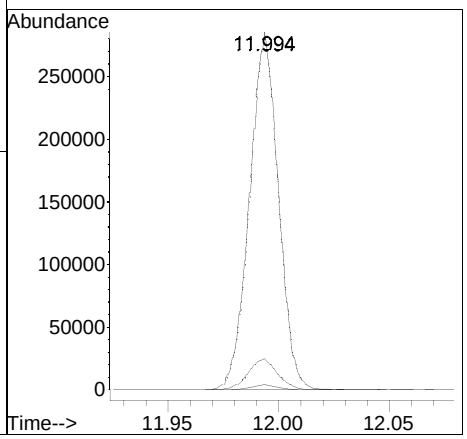


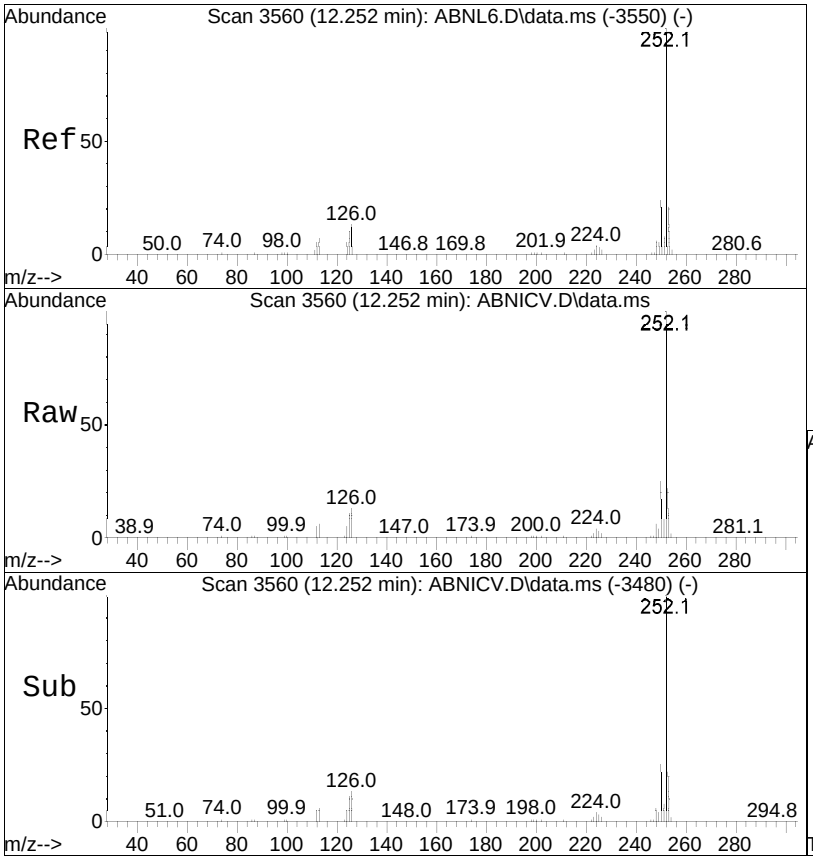


#111
Di-n-octylphthalate
Concen: 4.75 ug/ml
RT: 11.994 min Scan# 3477
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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#

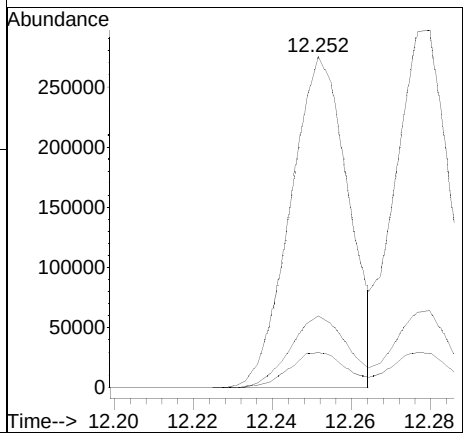


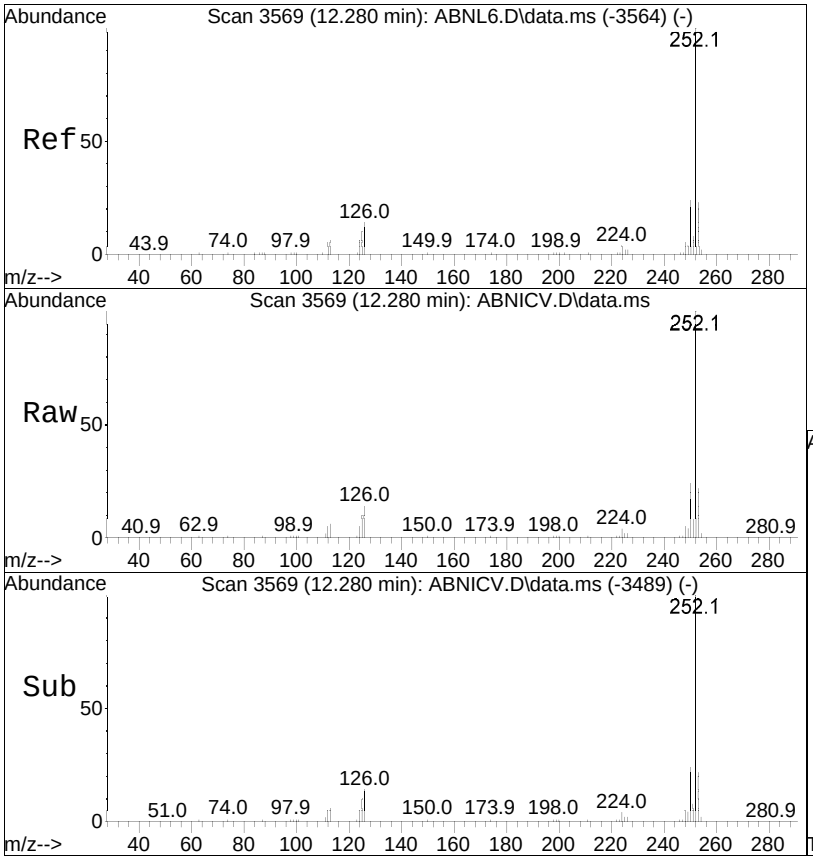


#112
Benzo(b)fluoranthene
Concen: 4.49 ug/ml
RT: 12.252 min Scan# 3560
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

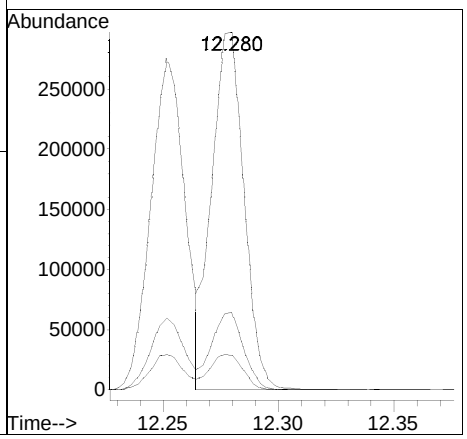


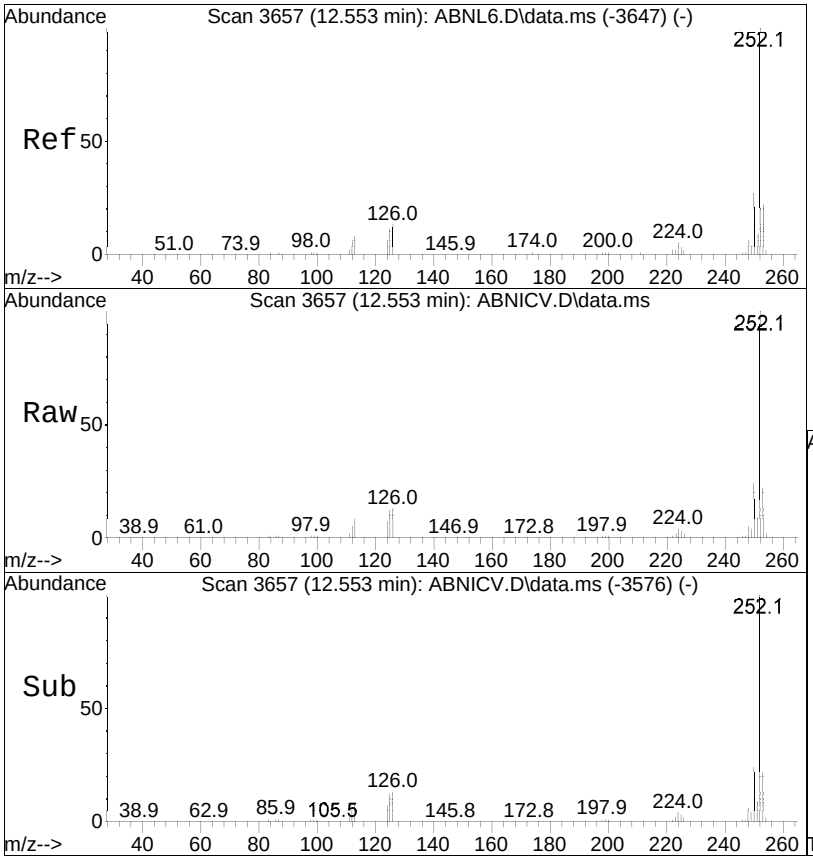


#113
Benzo(k)fluoranthene
Concen: 4.71 ug/ml
RT: 12.280 min Scan# 3569
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

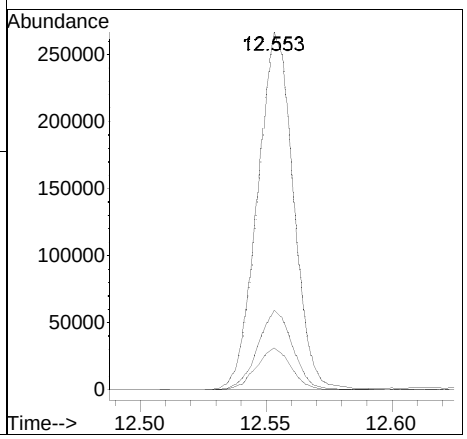


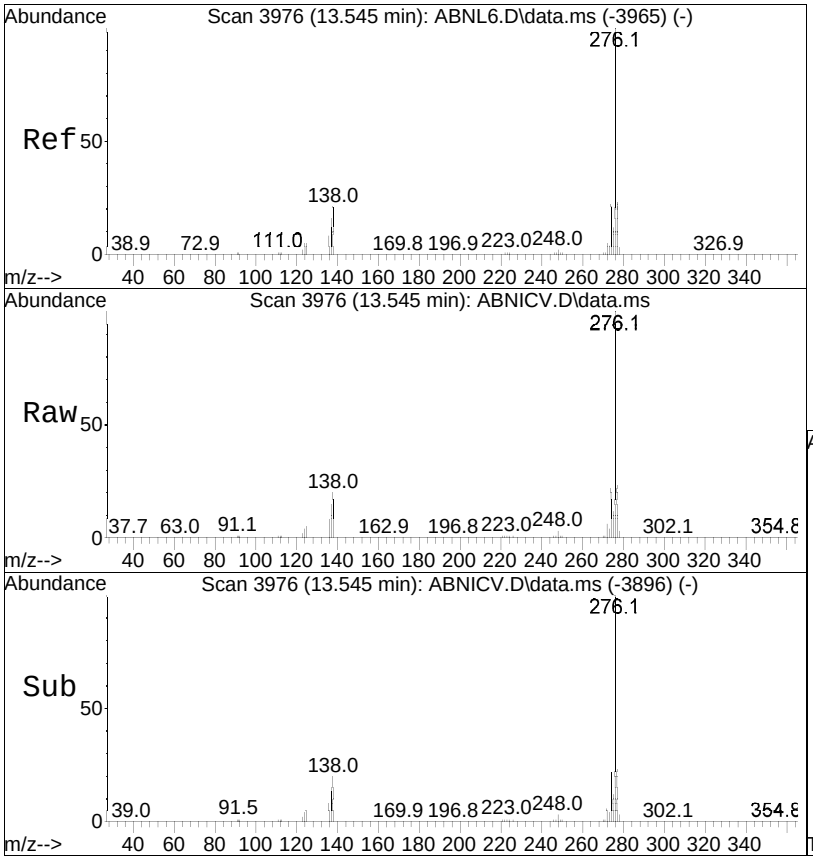


#114
Benzo(a)pyrene
Concen: 4.67 ug/ml
RT: 12.553 min Scan# 3657
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

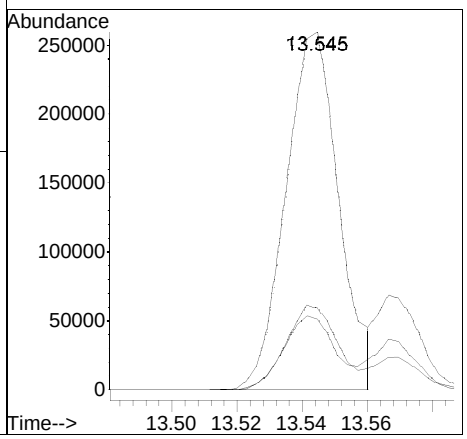


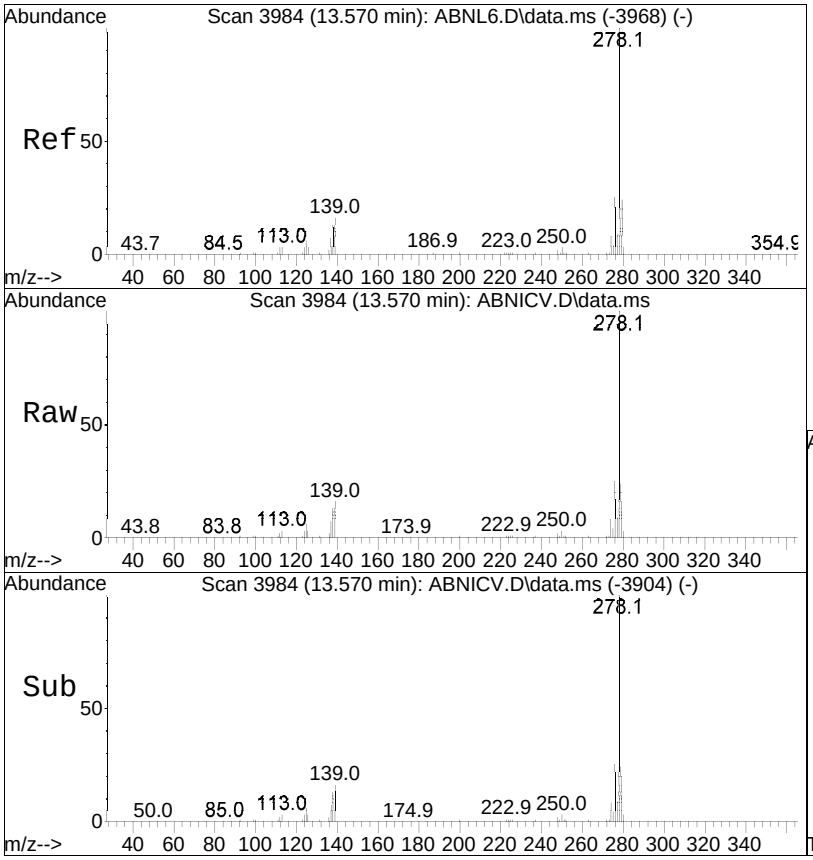


#116
Indeno(1,2,3-cd)pyrene
Concen: 4.58 ug/mL
RT: 13.545 min Scan# 3976
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

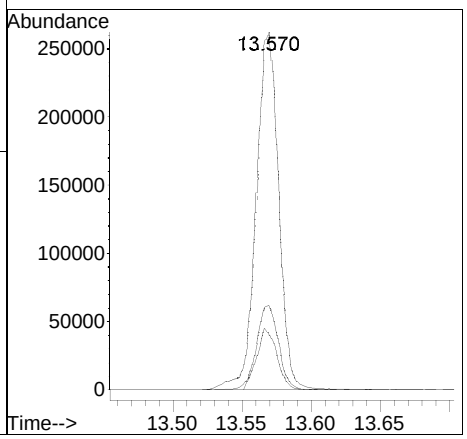


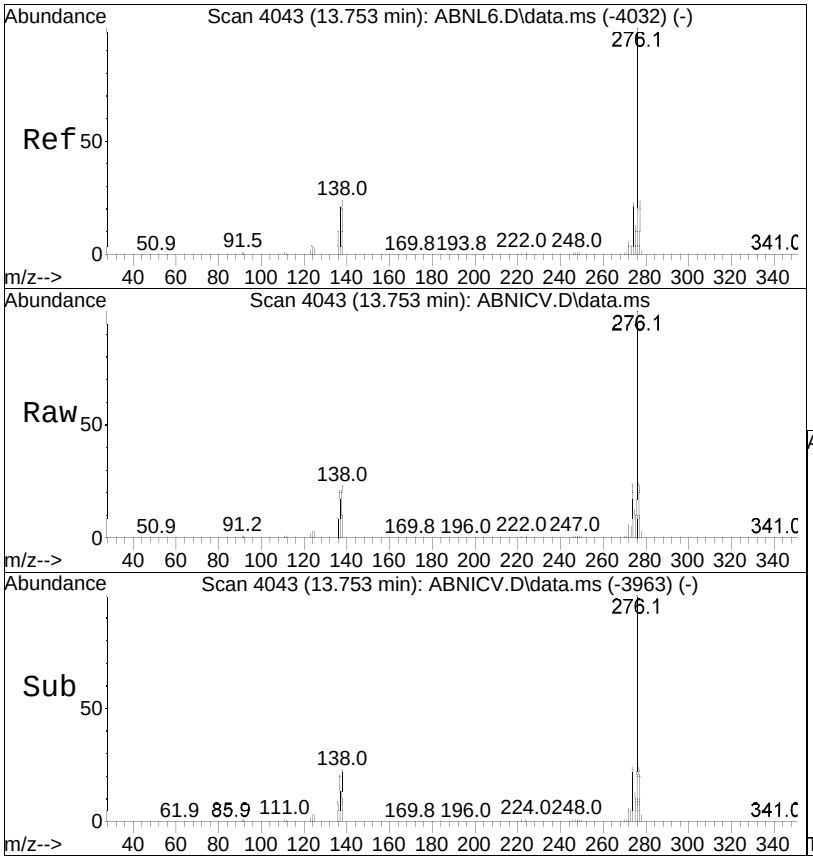


#117
Dibenzo(a,h)anthracene
Concen: 4.67 ug/ml
RT: 13.570 min Scan# 3984
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

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

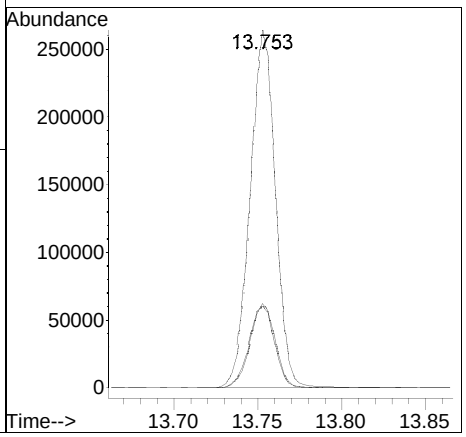




#118
Benzo(ghi)perylene
Concen: 4.45 ug/ml
RT: 13.753 min Scan# 4043
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:276 Resp: 274527

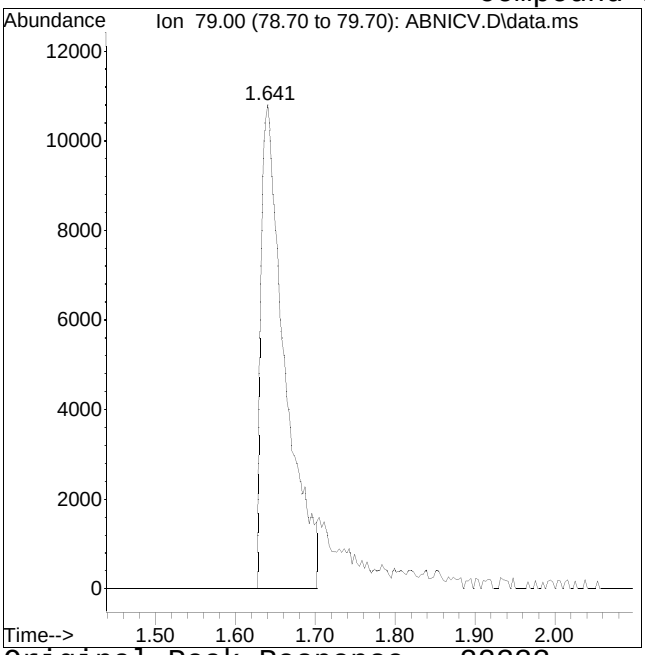
Ion	Ratio	Lower	Upper
276	100		
138	23.4	29.2	43.8#
277	23.6	18.8	28.2



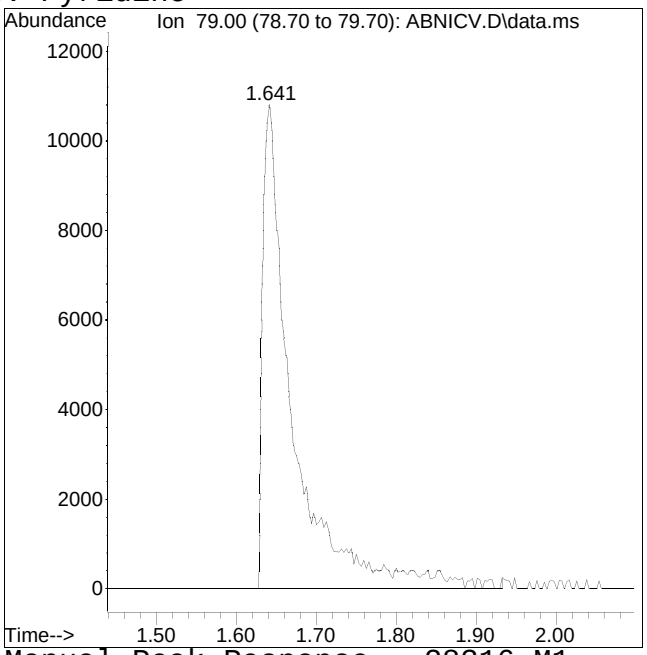
Manual Integration Report

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

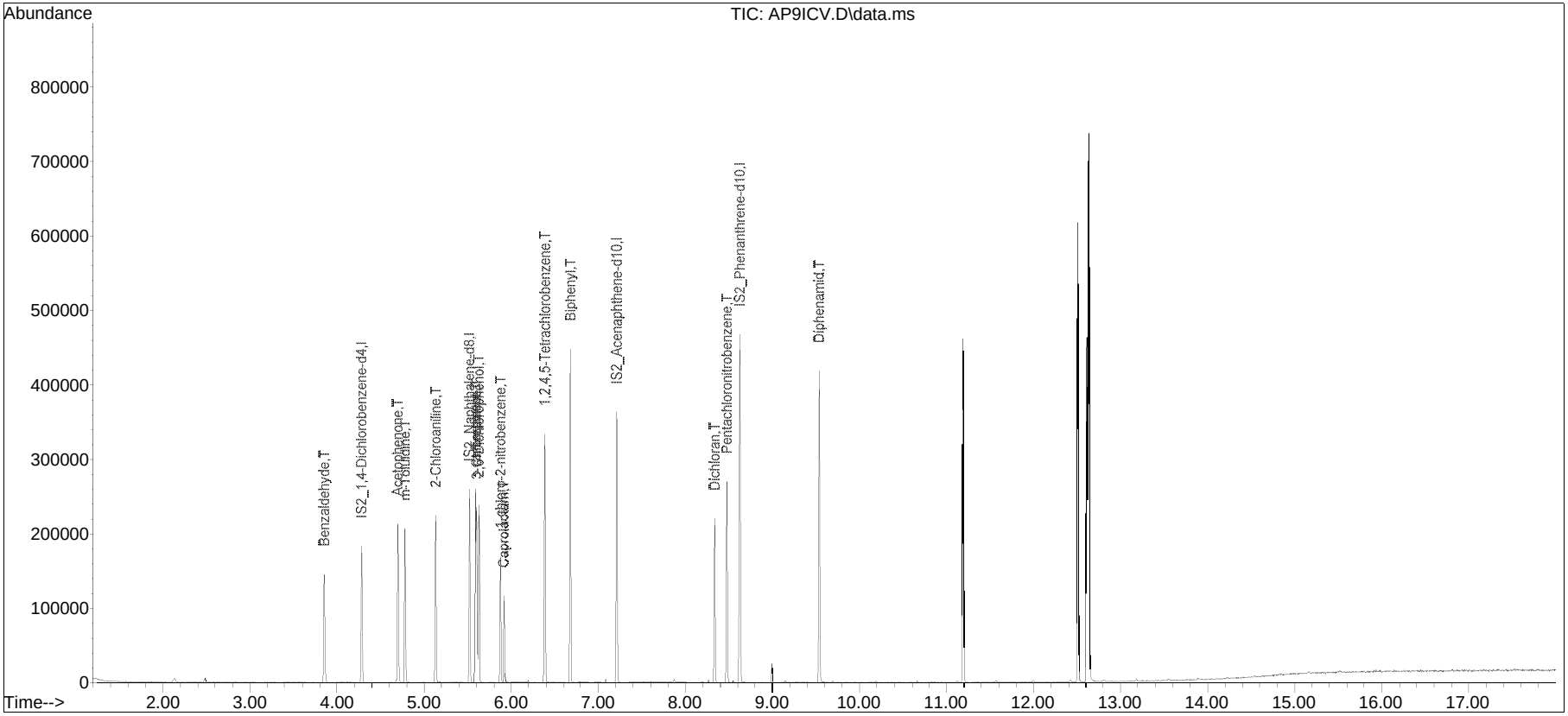
(#) = qualifier out of range (m) = manual integration (+) = signals summed

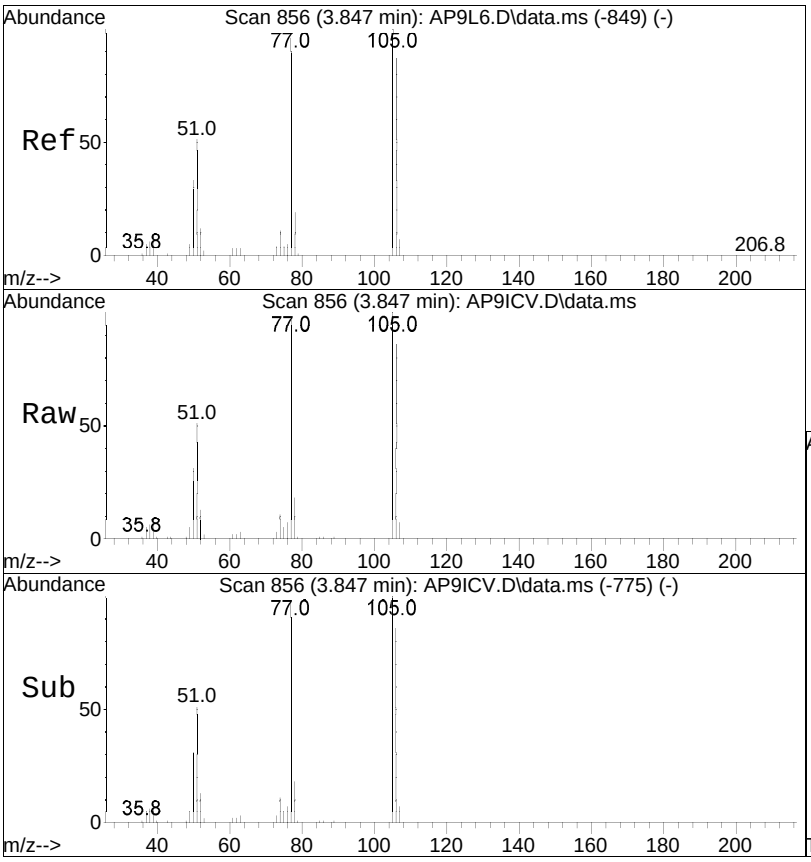
Quantitation Report (QT Reviewed)

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•

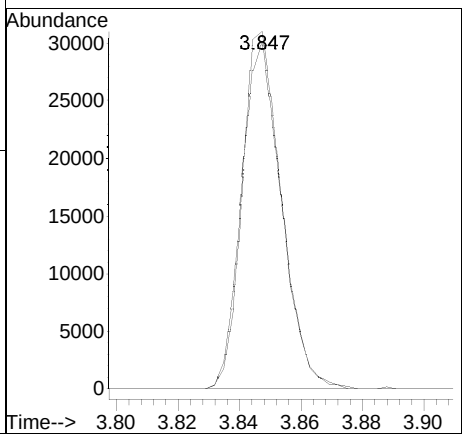


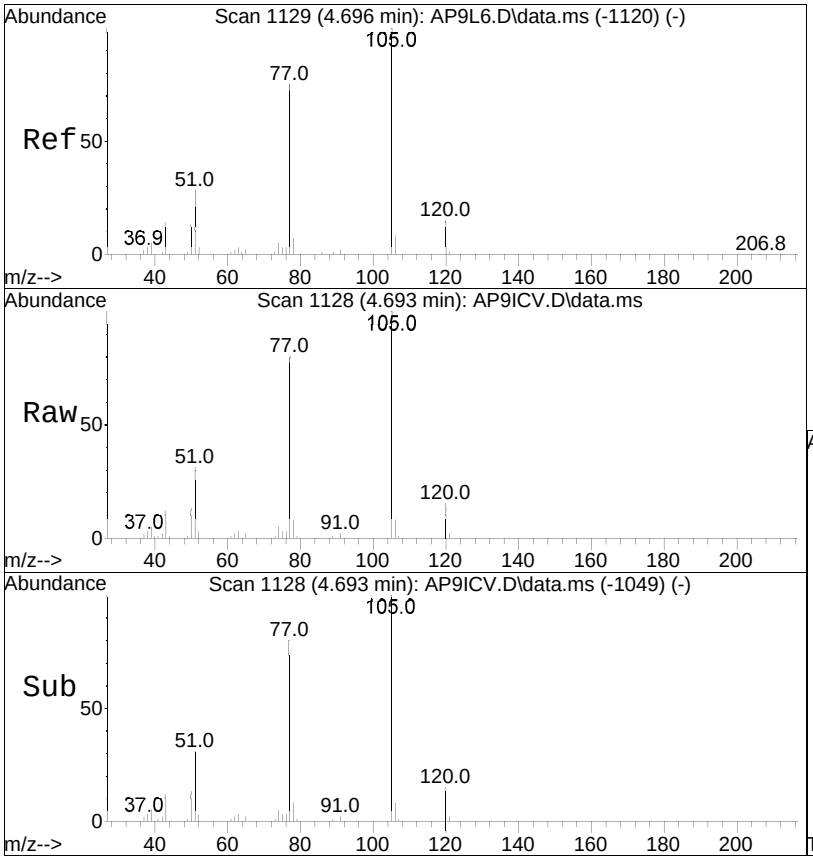


#28
Benzaldehyde
Concen: 5.45 ug/ml
RT: 3.847 min Scan# 856
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

Tgt Ion:105 Resp: 27551

Ion	Ratio	Lower	Upper
105	100		
77	98.2	82.2	123.4

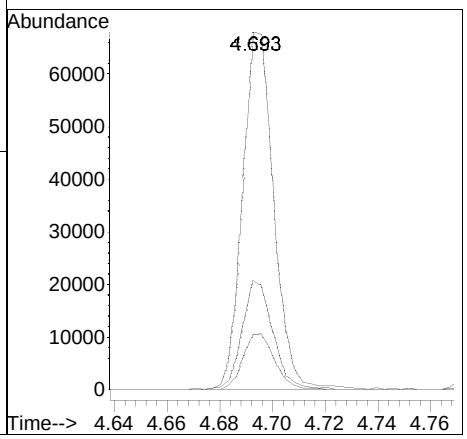


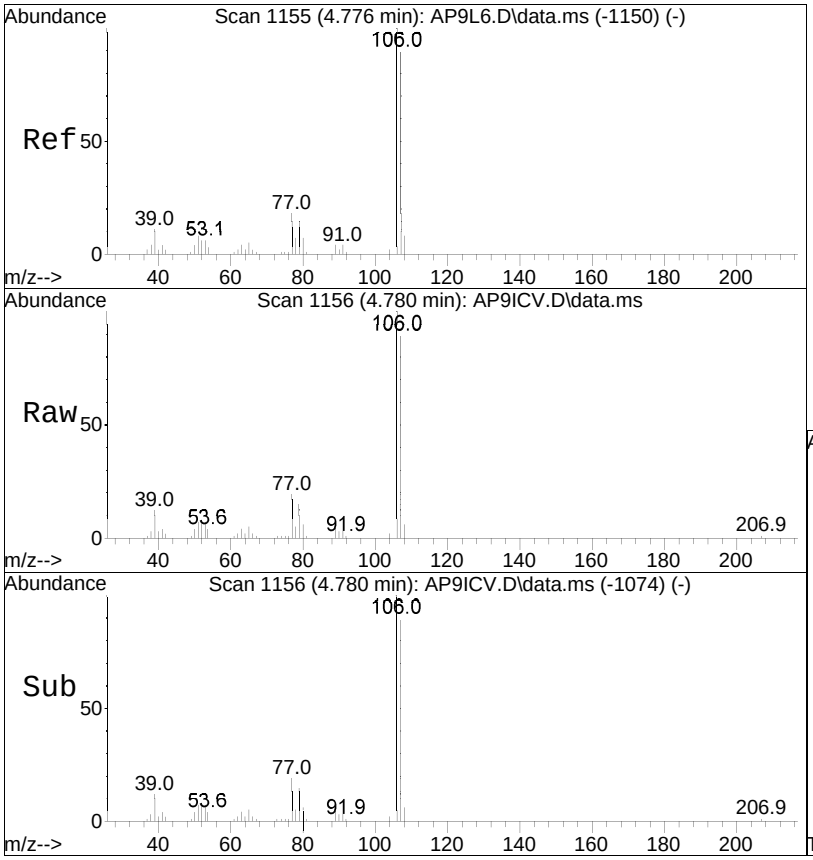


#29
Acetophenone
Concen: 5.48 ug/ml
RT: 4.693 min Scan# 1128
Delta R.T. -0.003 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

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#

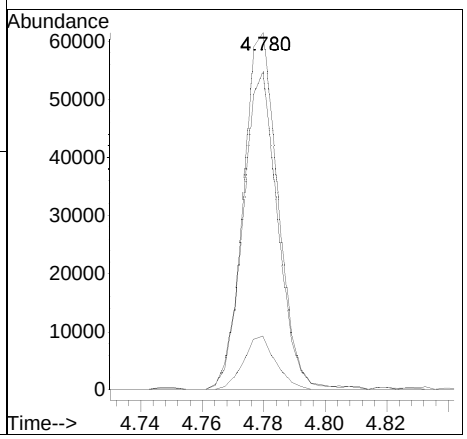


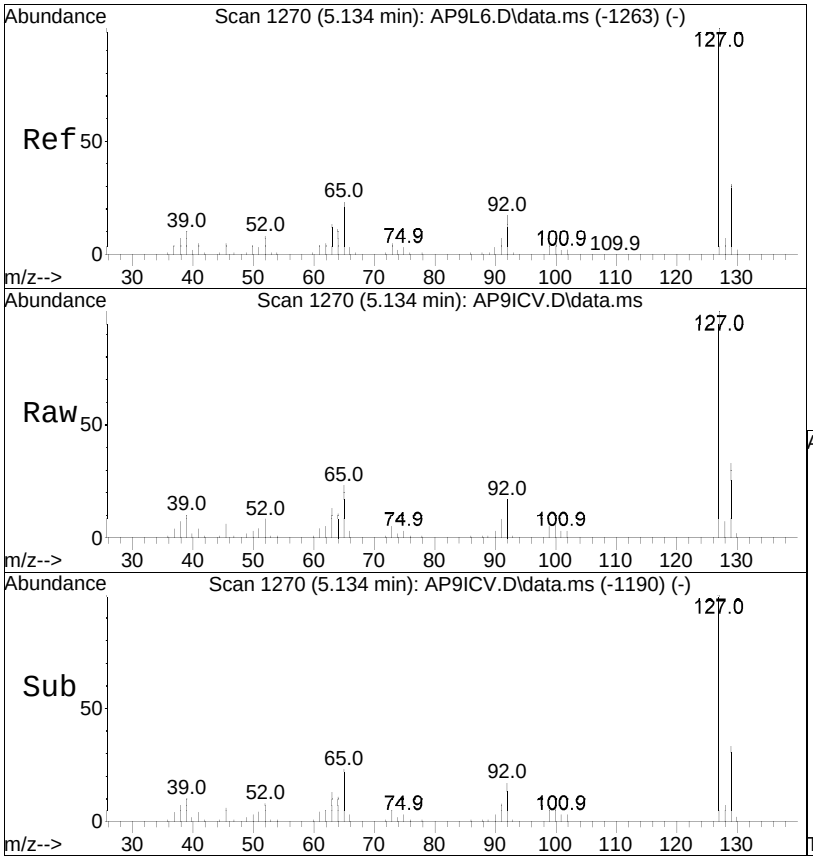


#30
m-Toluidine
Concen: 5.23 ug/ml
RT: 4.780 min Scan# 1156
Delta R.T. 0.004 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

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

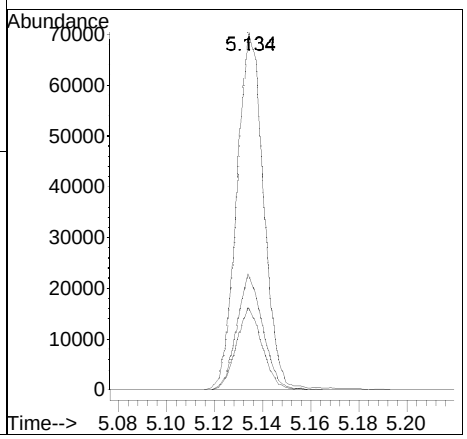


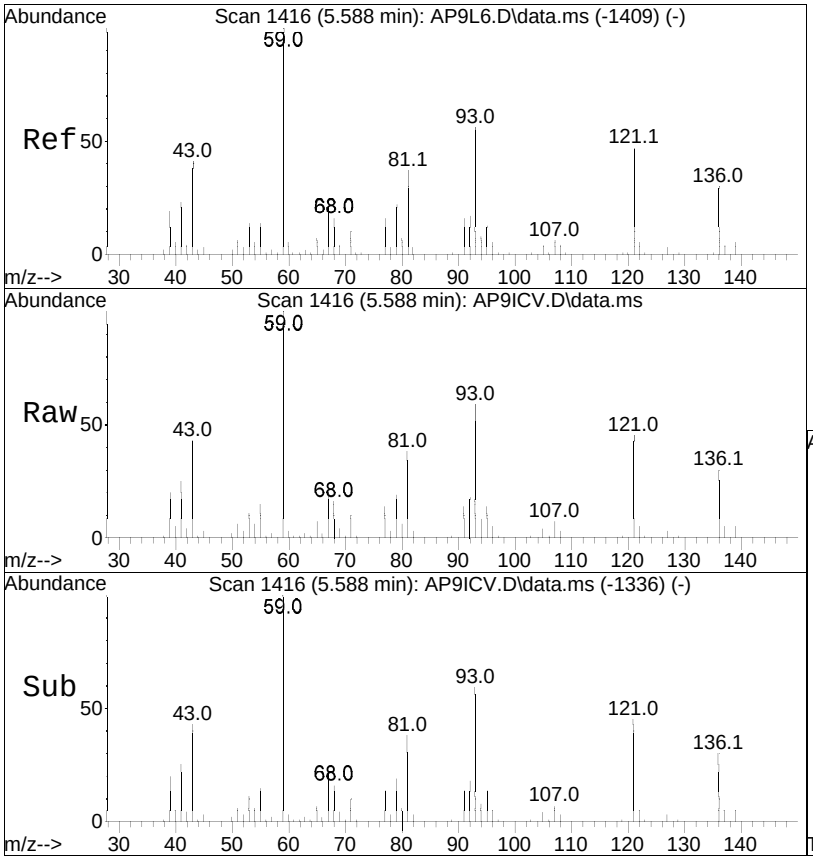


#31
2-Chloroaniline
Concen: 5.51 ug/ml
RT: 5.134 min Scan# 1270
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

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#

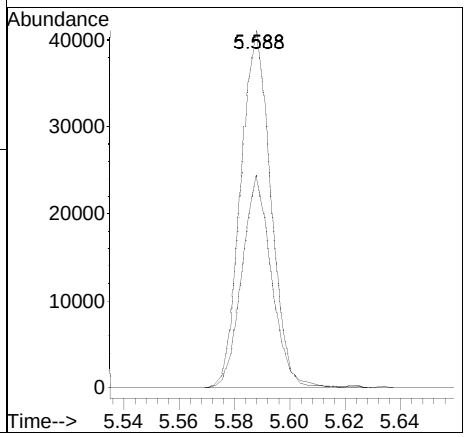


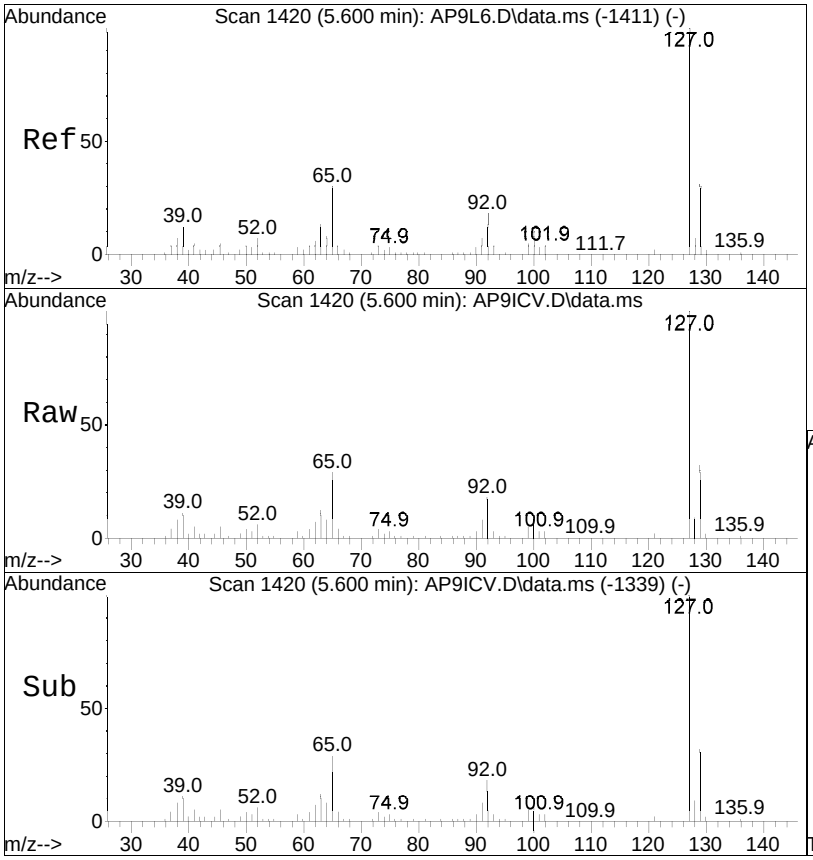


#58
a-Terpineol
Concen: 5.39 ug/ml
RT: 5.588 min Scan# 1416
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

Tgt Ion: 59 Resp: 30996

Ion	Ratio	Lower	Upper
59	100		
93	58.9	35.6	53.4#

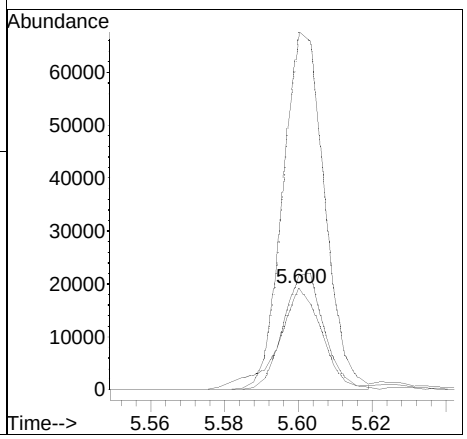


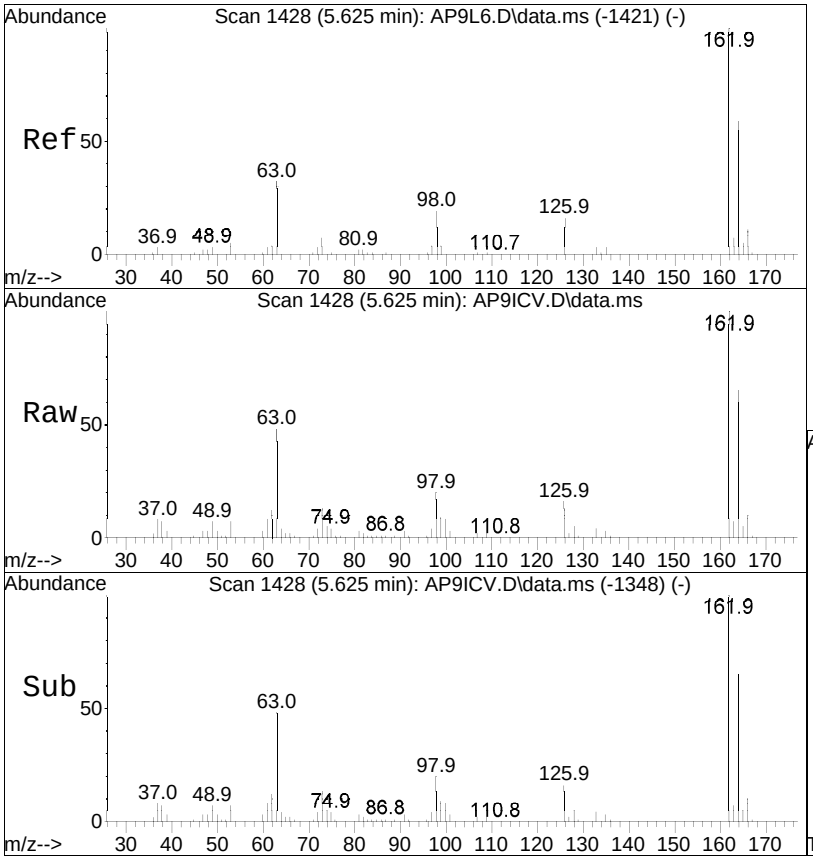


#59
3-Chloroaniline
Concen: 5.36 ug/ml
RT: 5.600 min Scan# 1420
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

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

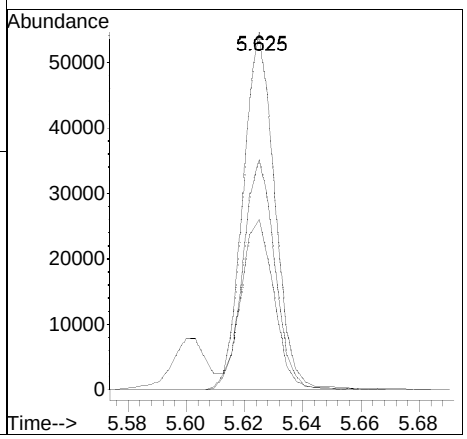


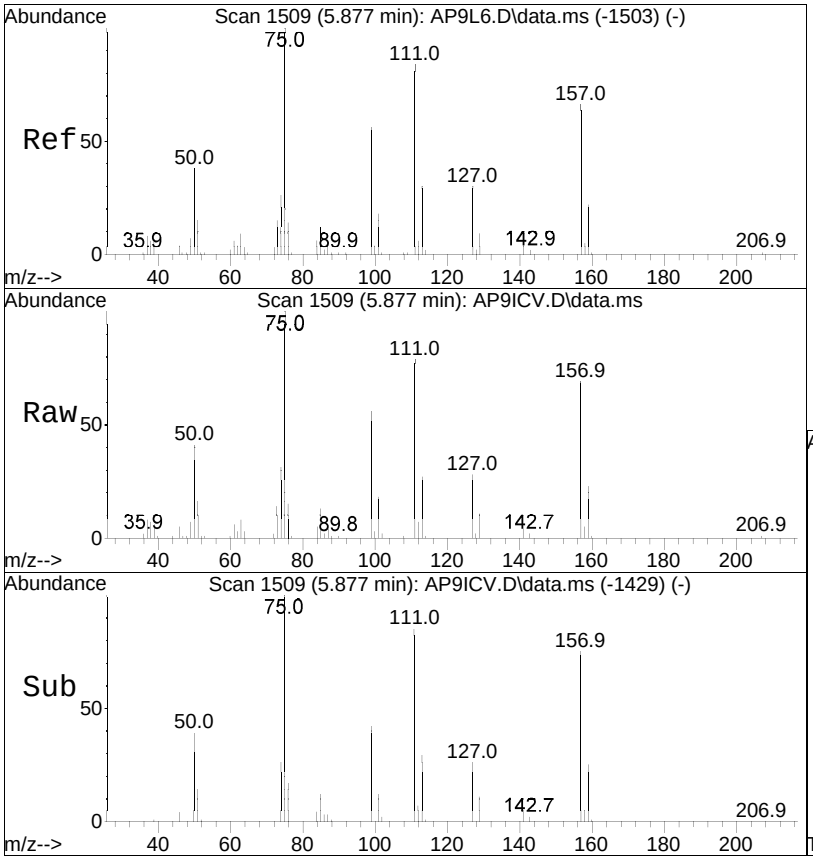


#60
2,6-Dichlorophenol
Concen: 5.35 ug/ml
RT: 5.625 min Scan# 1428
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

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#

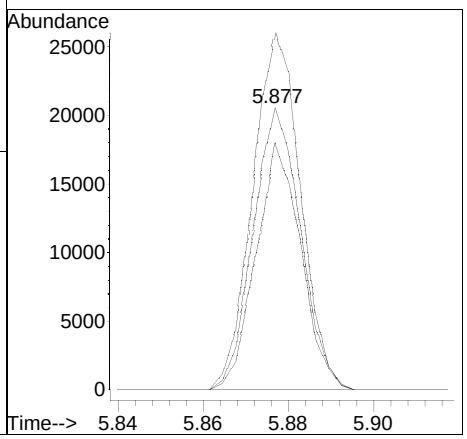


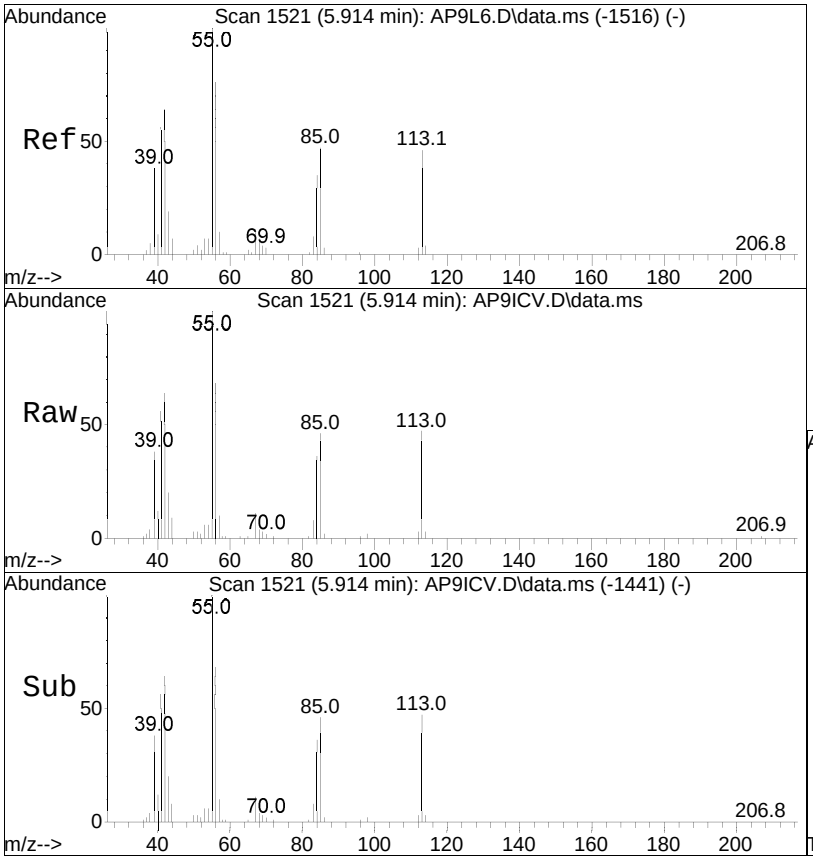


#61
1-chloro-2-nitrobenzene
Concen: 5.37 ug/ml
RT: 5.877 min Scan# 1509
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

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#

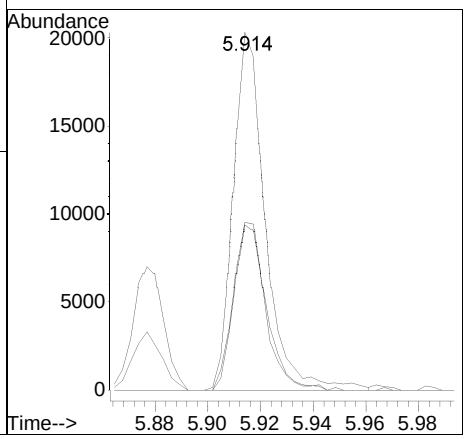


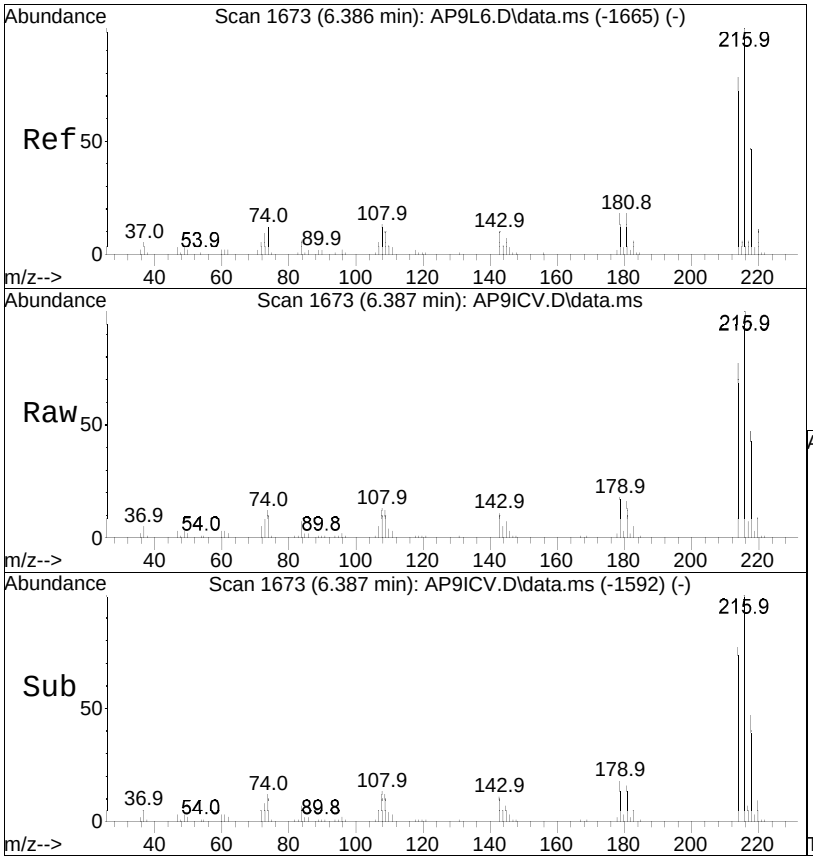


#62
Caprolactam
Concen: 5.35 ug/ml
RT: 5.914 min Scan# 1521
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

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#

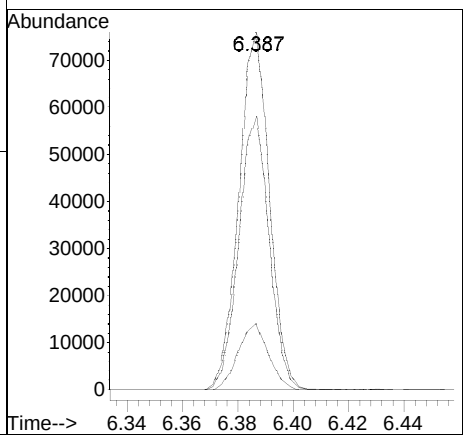


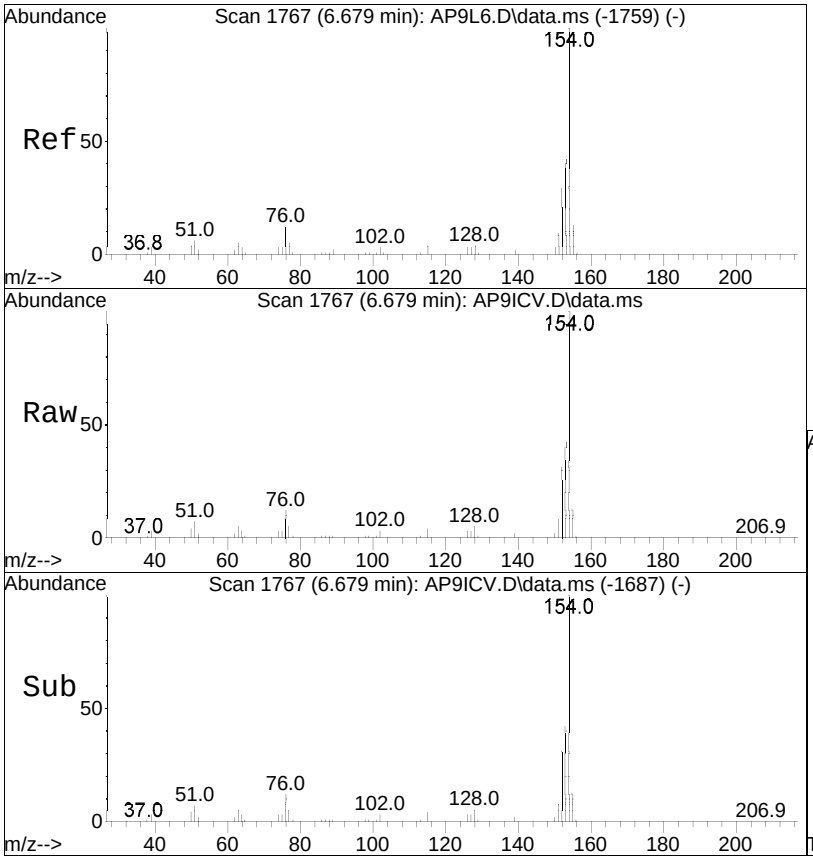


#63
1,2,4,5-Tetrachlorobenzene
Concen: 5.41 ug/ml
RT: 6.387 min Scan# 1673
Delta R.T. 0.001 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

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#

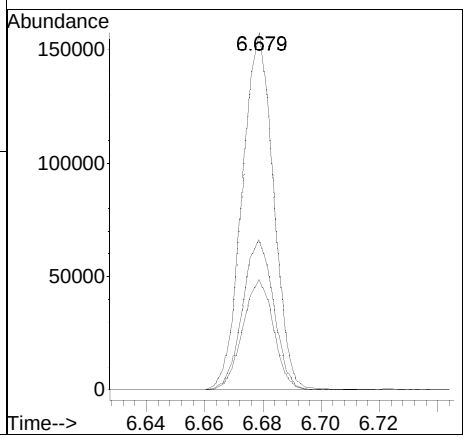


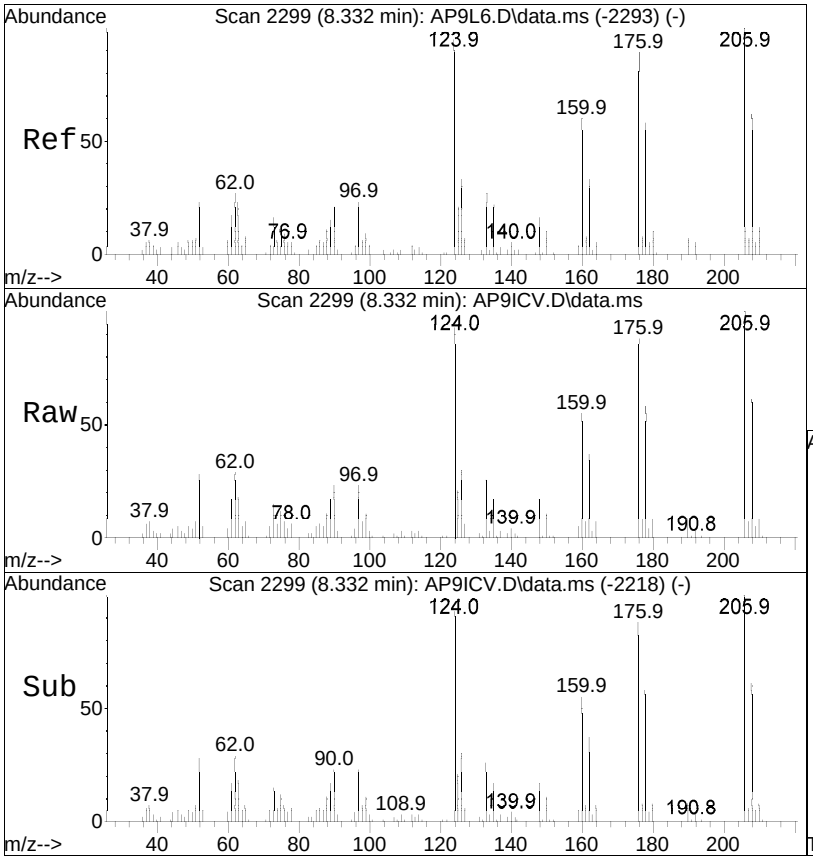


#64
Biphenyl
Concen: 5.37 ug/ml
RT: 6.679 min Scan# 1767
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

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

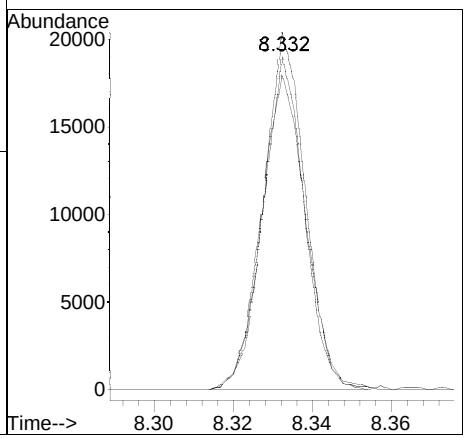


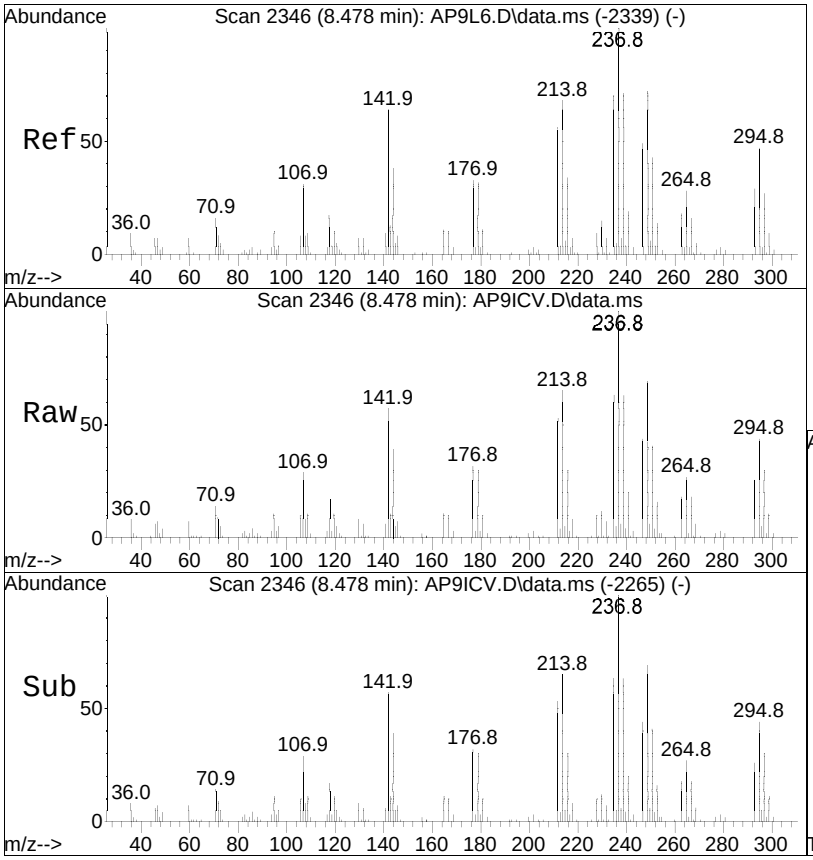


#86
Dichloran
Concen: 5.35 ug/ml
RT: 8.332 min Scan# 2299
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

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#

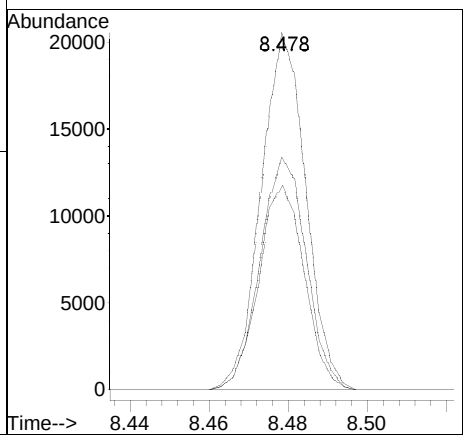


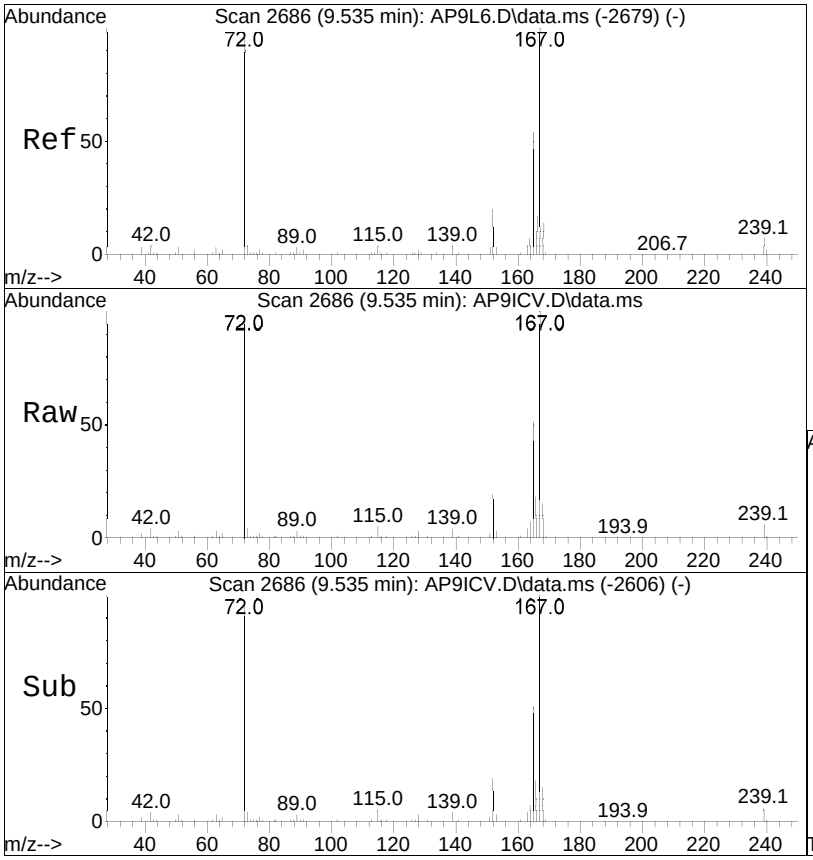


#87
Pentachloronitrobenzene
Concen: 5.23 ug/ml
RT: 8.478 min Scan# 2346
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

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

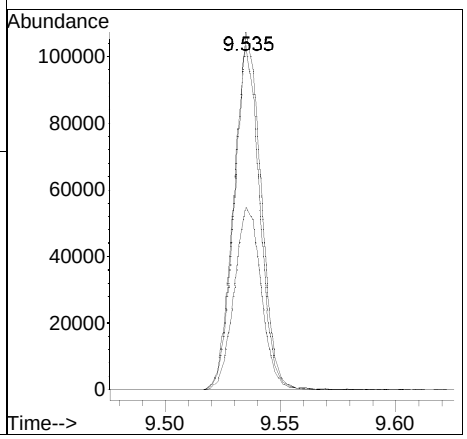




#101
Diphenamid
Concen: 5.61 ug/ml
RT: 9.535 min Scan# 2686
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

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

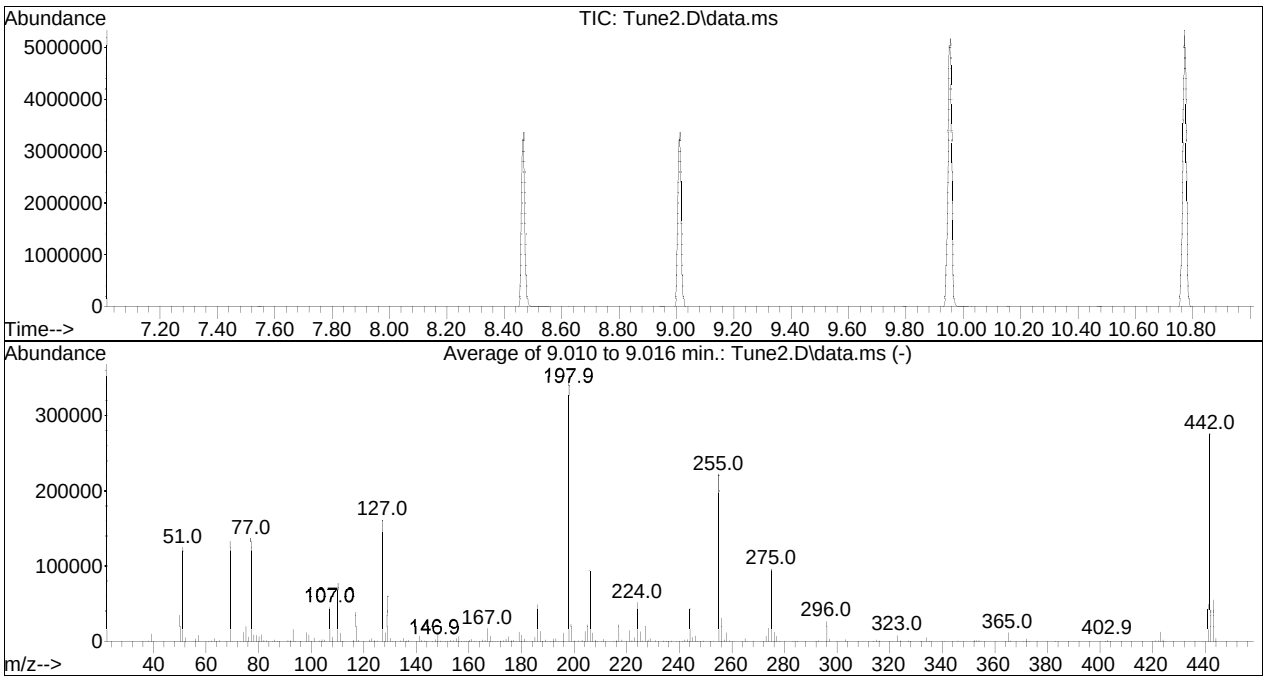
There are no manual integrations or false positives in this file.

DFTPP

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



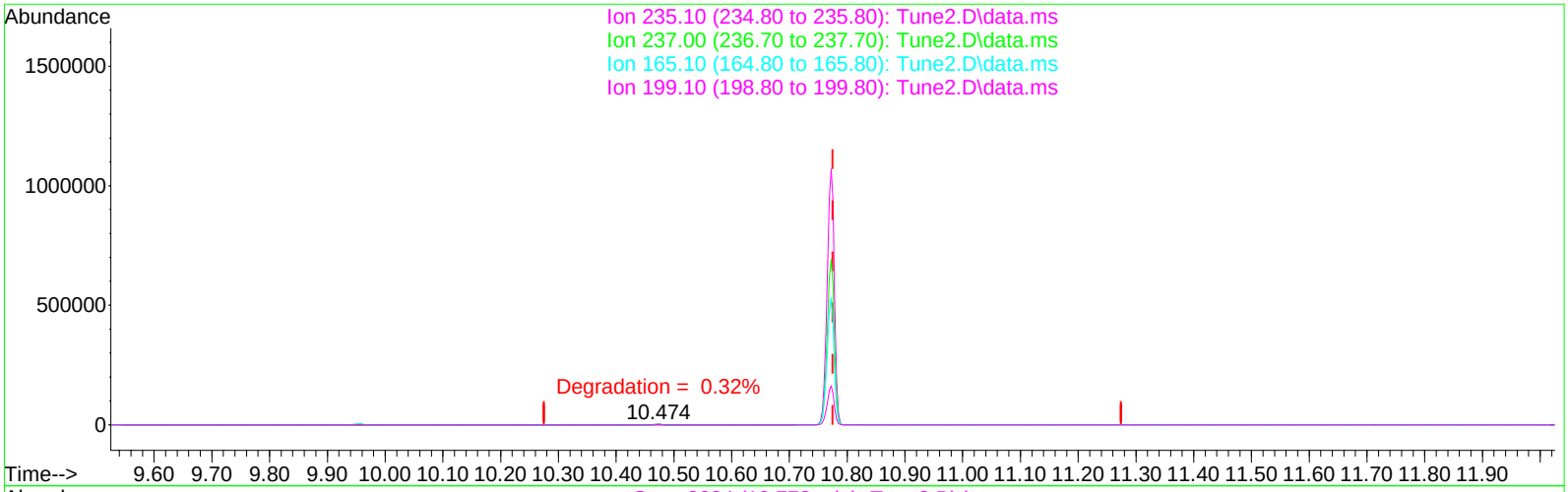
Spectrum Information: Average of 9.010 to 9.016 min.

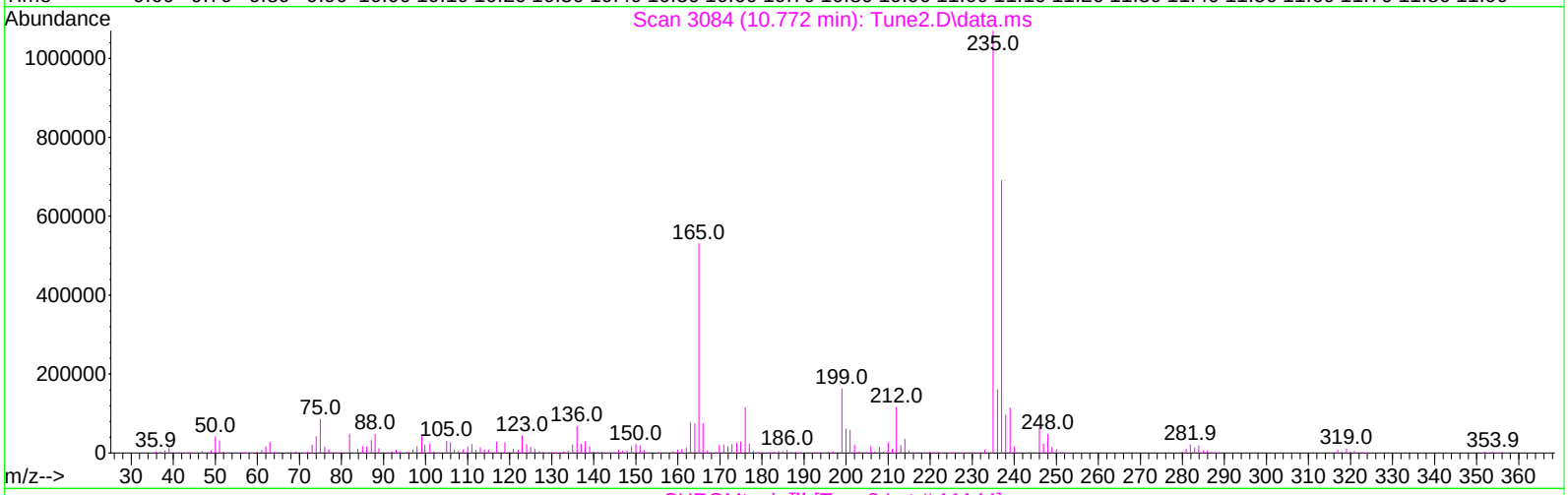
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	35.4	124264	PASS
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	132925	PASS
70	69	0.00	2	0.6	743	PASS
127	198	10	80	45.9	160797	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	350613	PASS
199	198	5	9	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

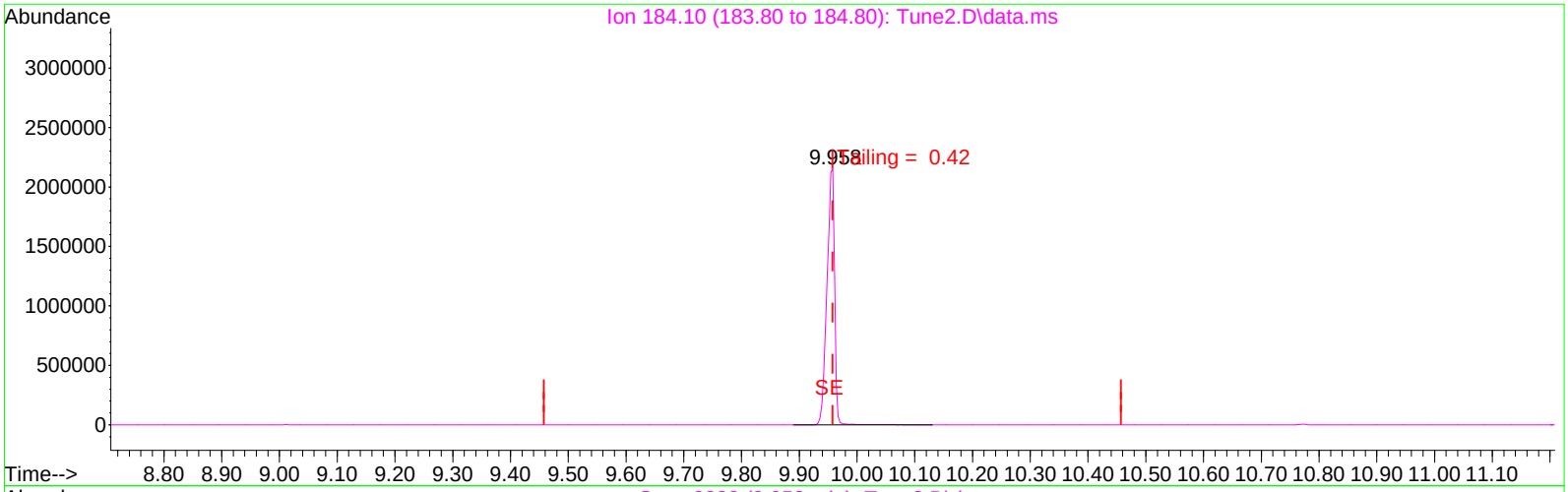
response 934167

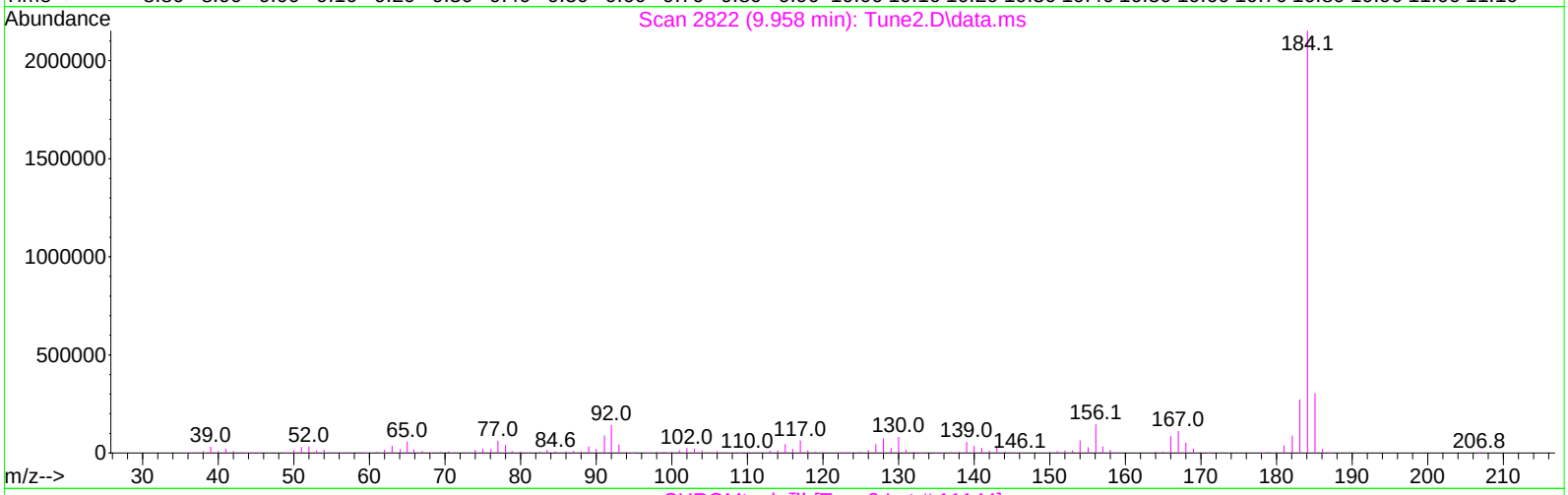
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.90	64.21
165.10	48.70	47.94
199.10	15.80	14.64

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

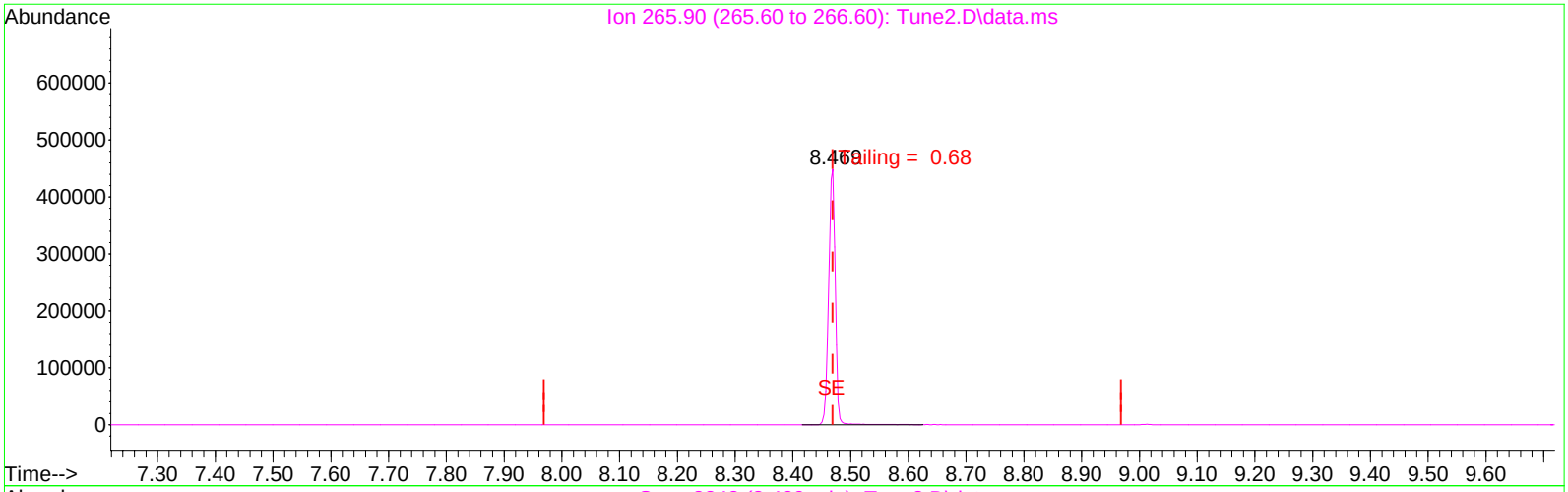
response 1966199

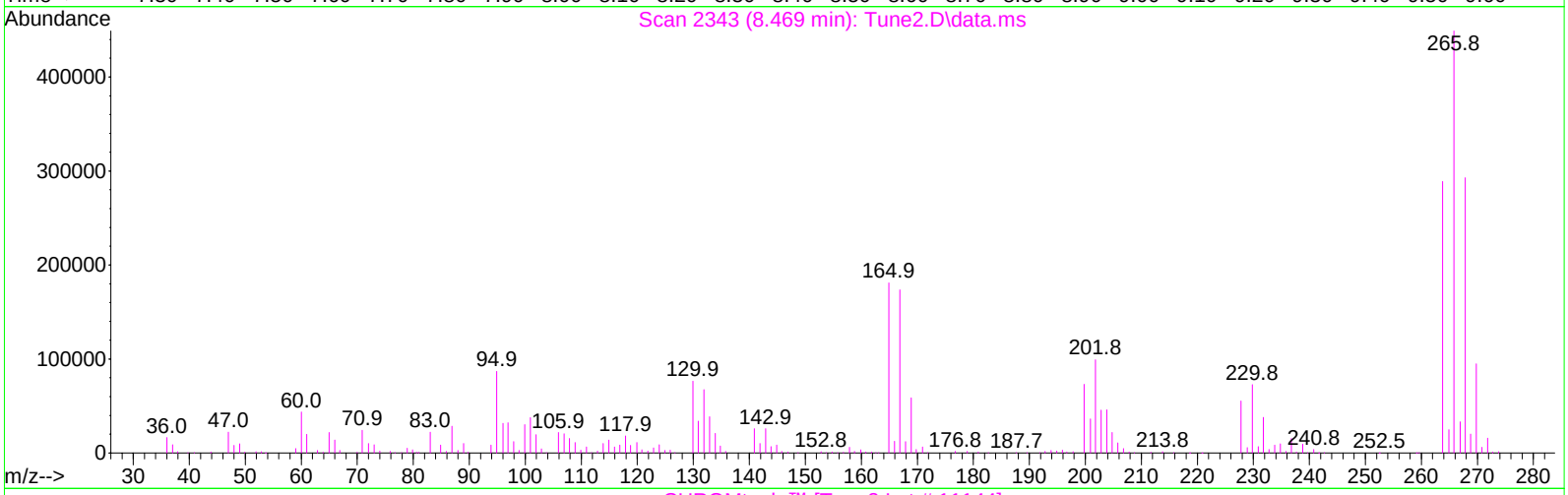
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

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

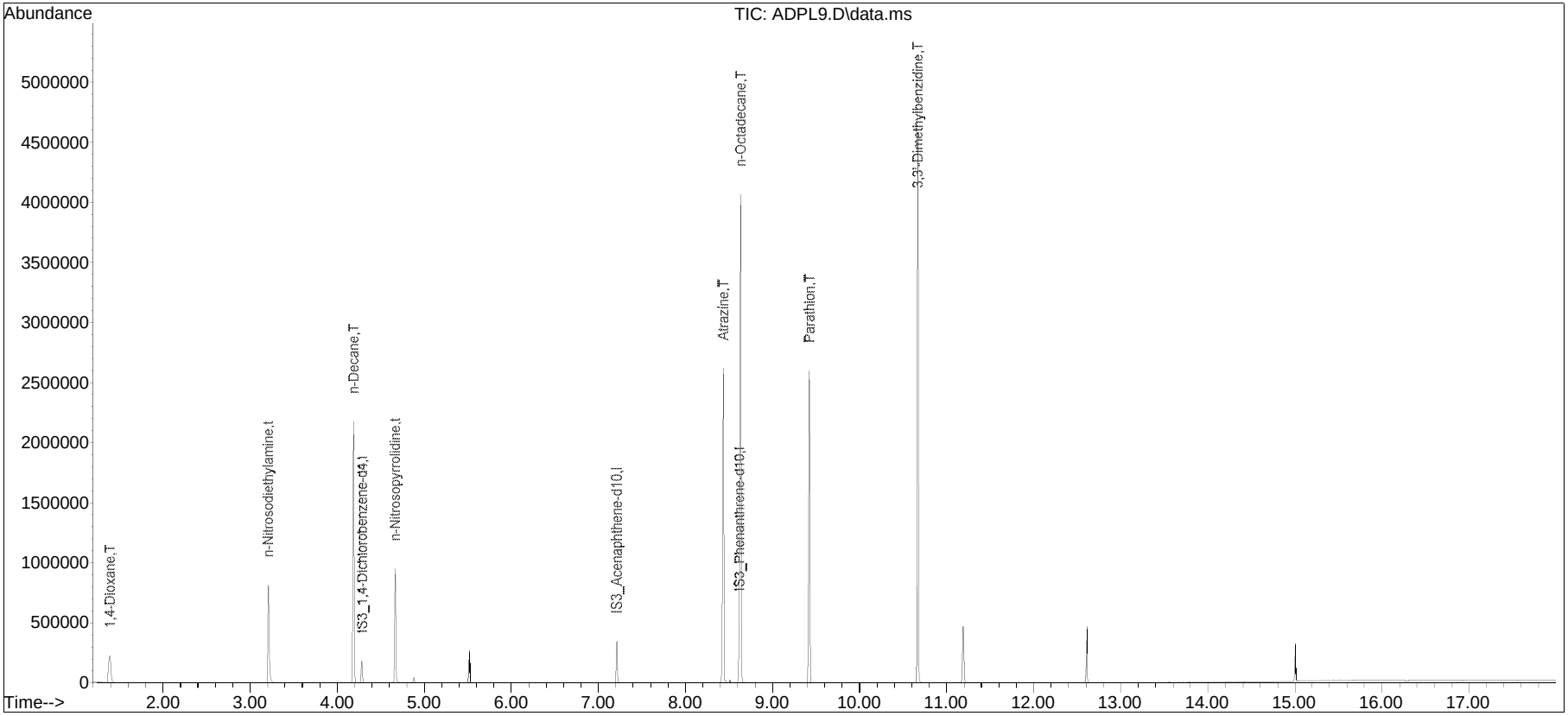
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

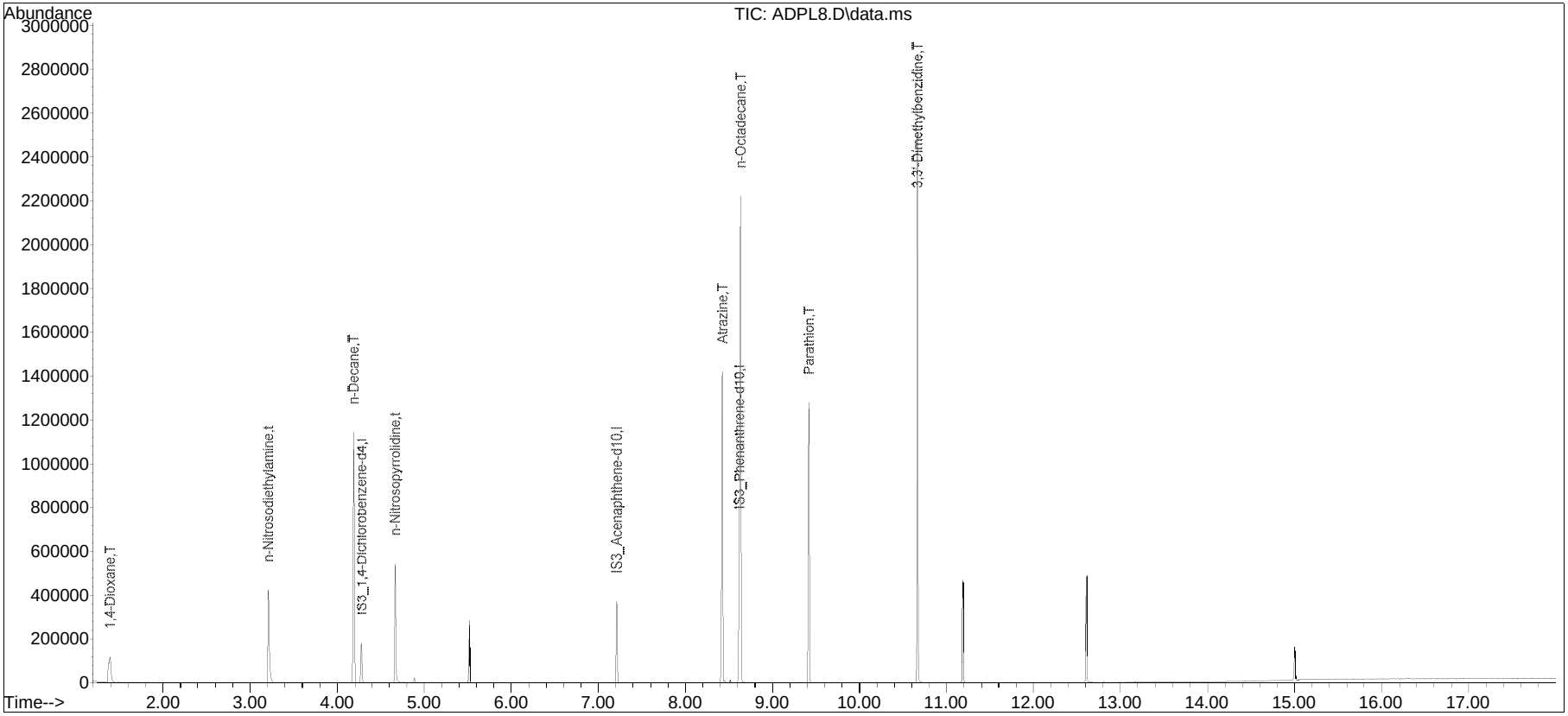
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

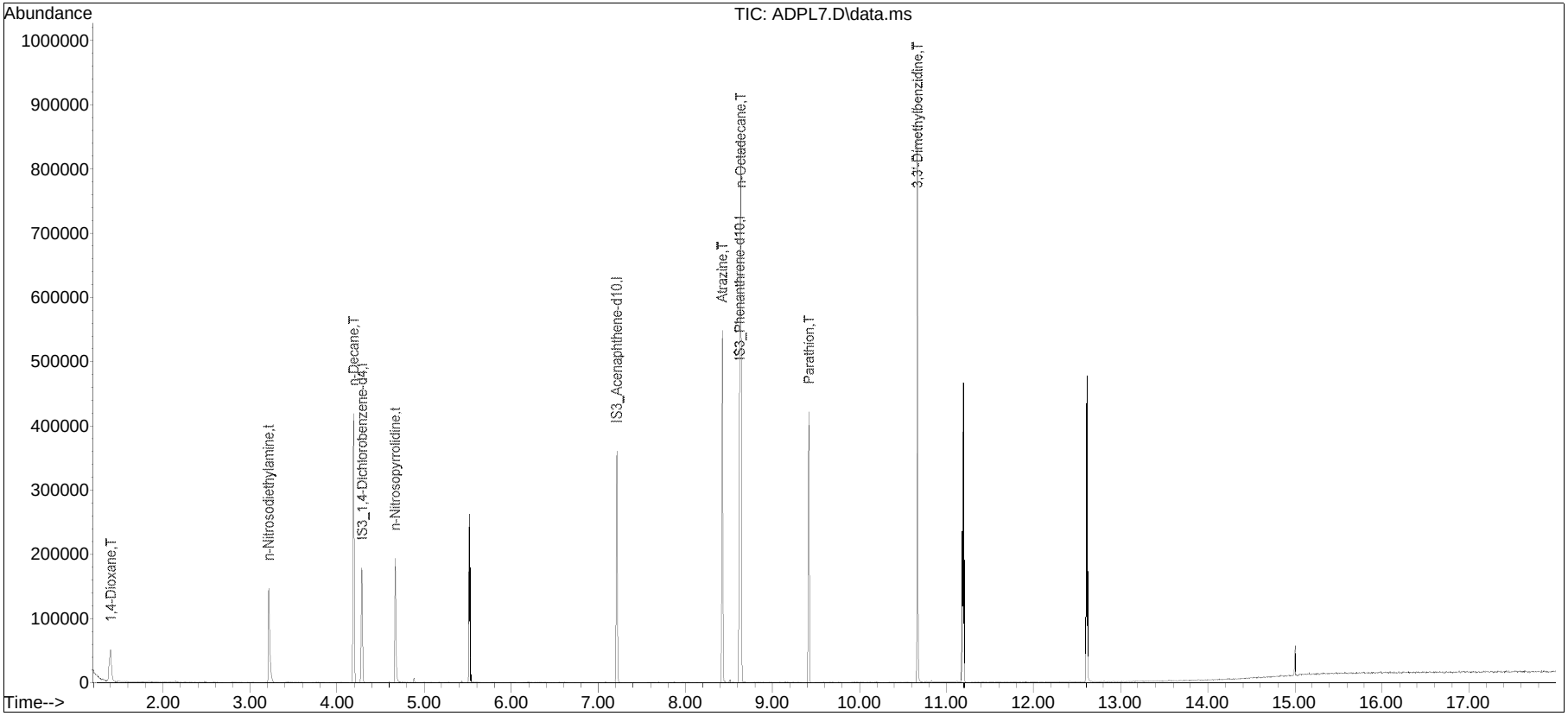
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

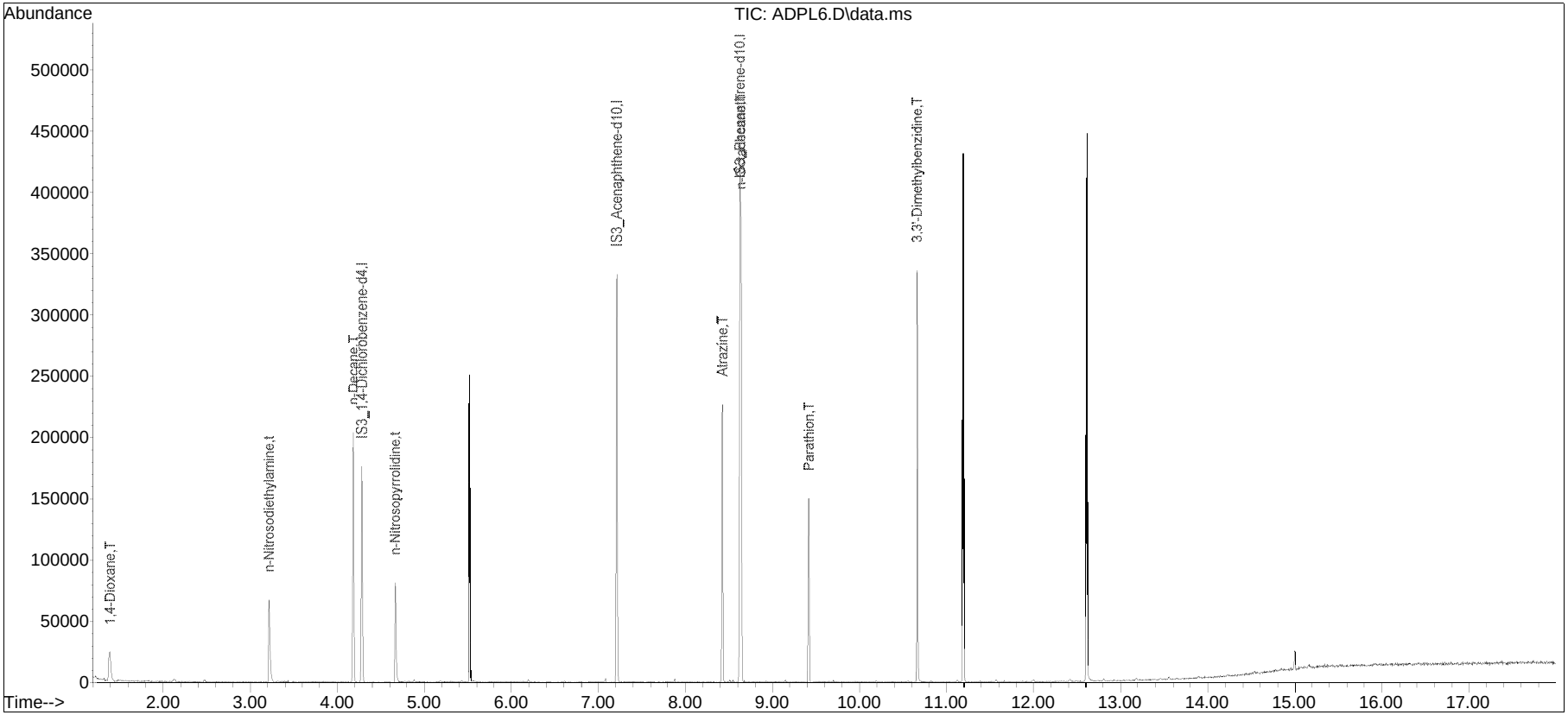
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

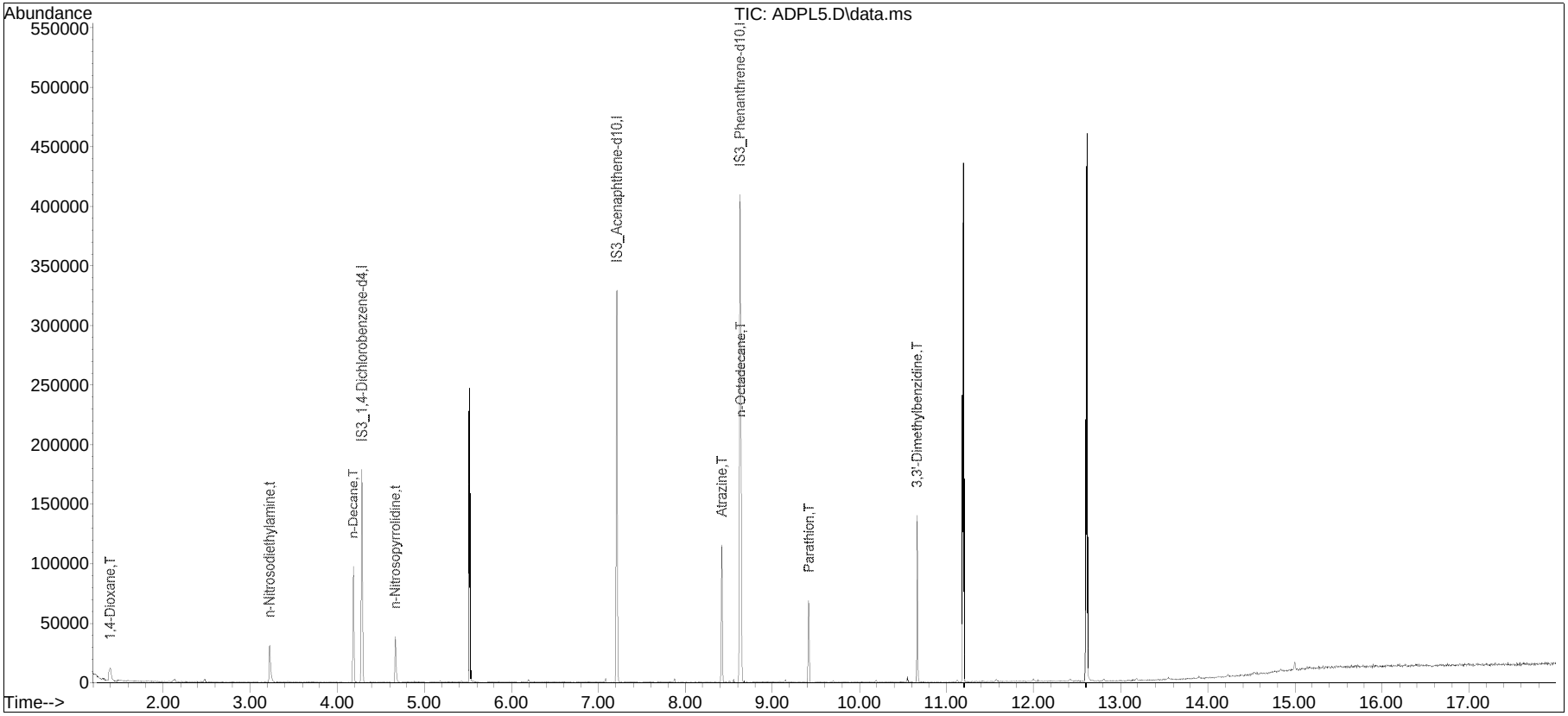
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

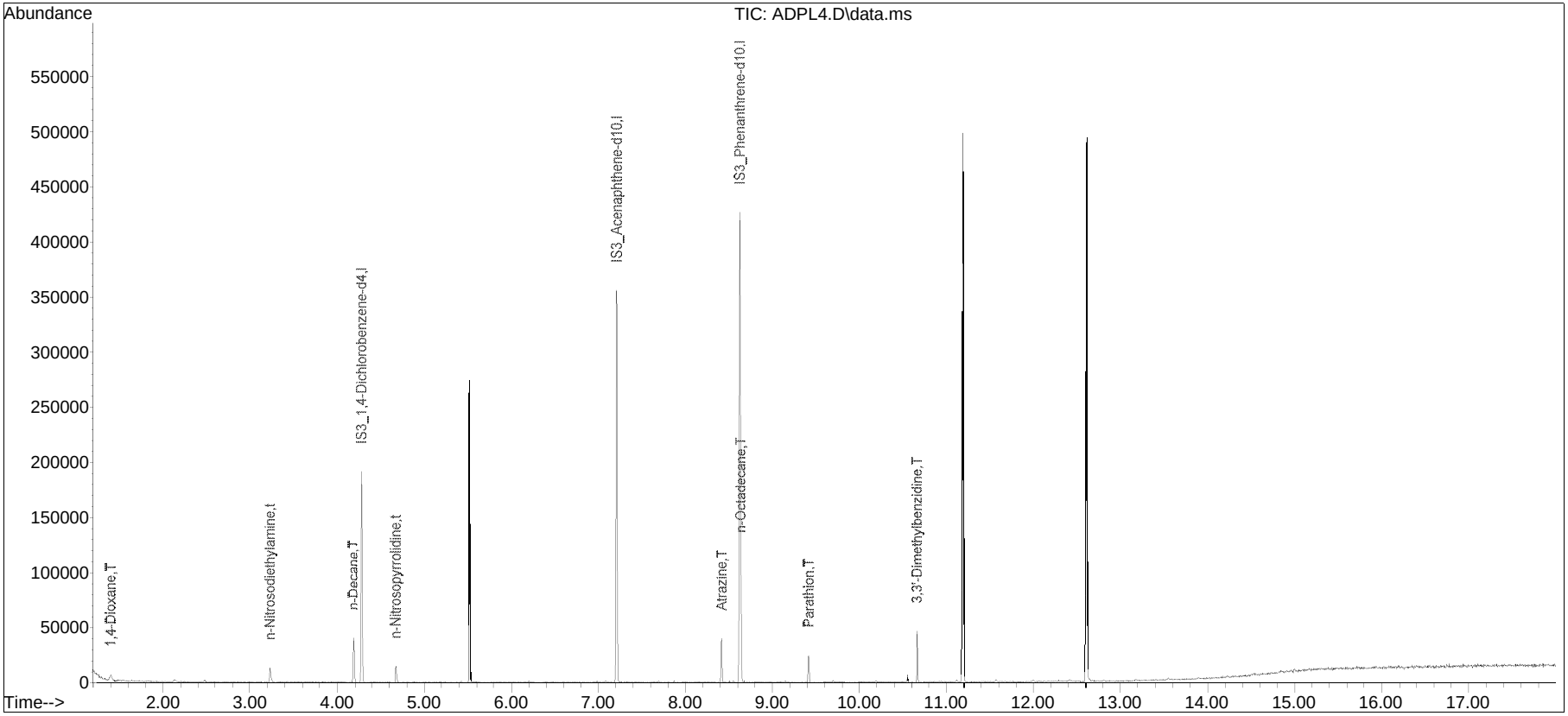
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

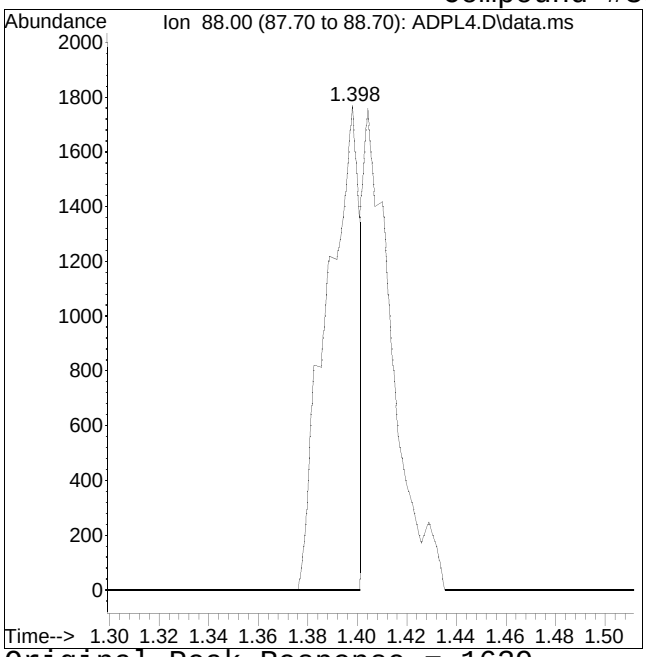
Sub List : ADPical_REV3 - ADP sublistVTICAL\ADPL6.D•



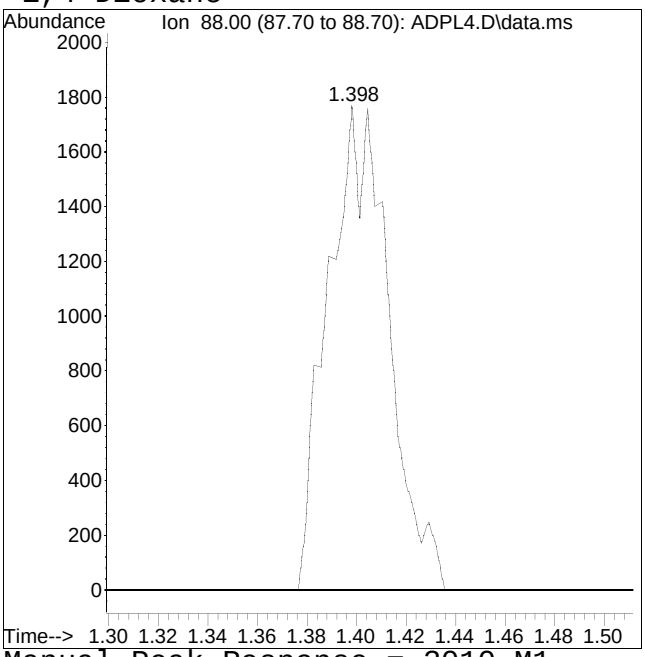
Manual Integration Report

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

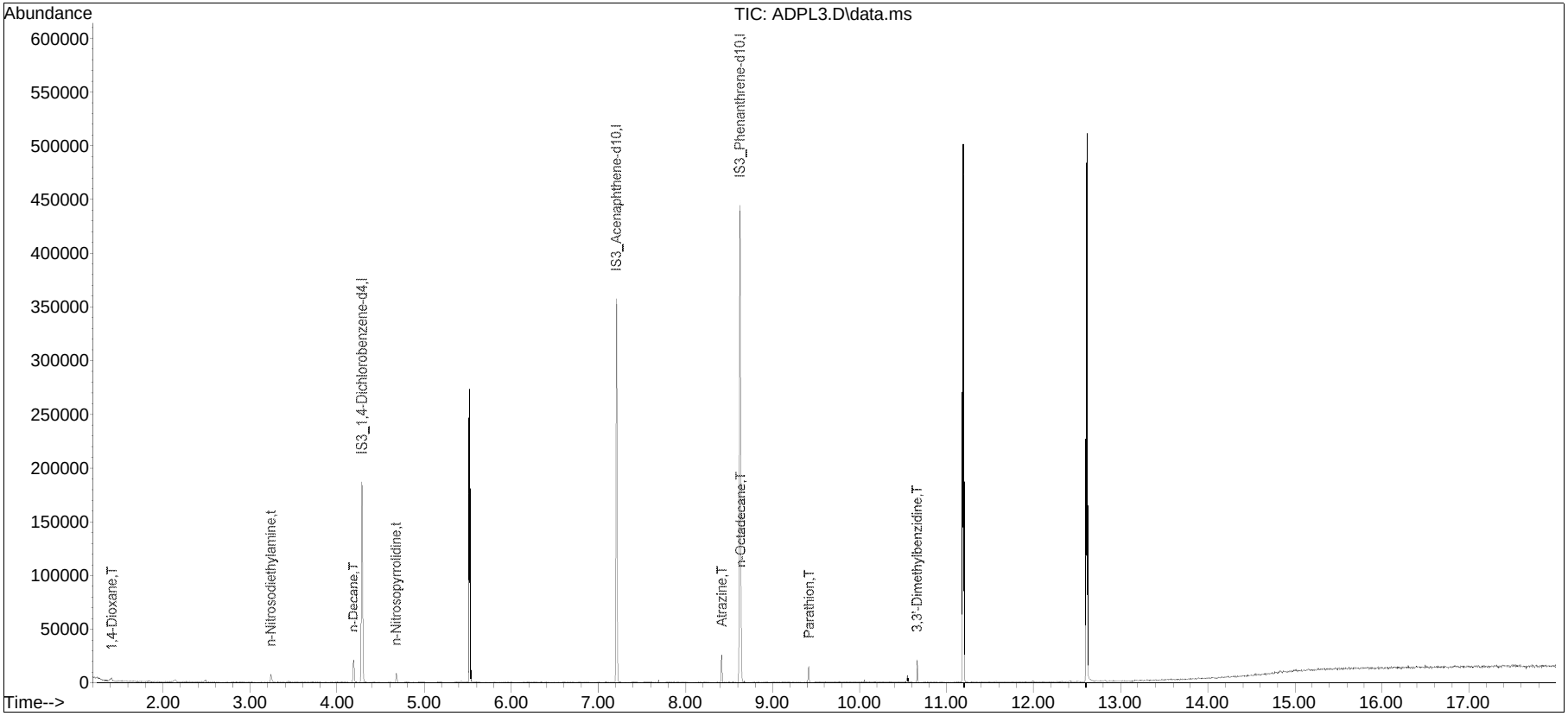
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

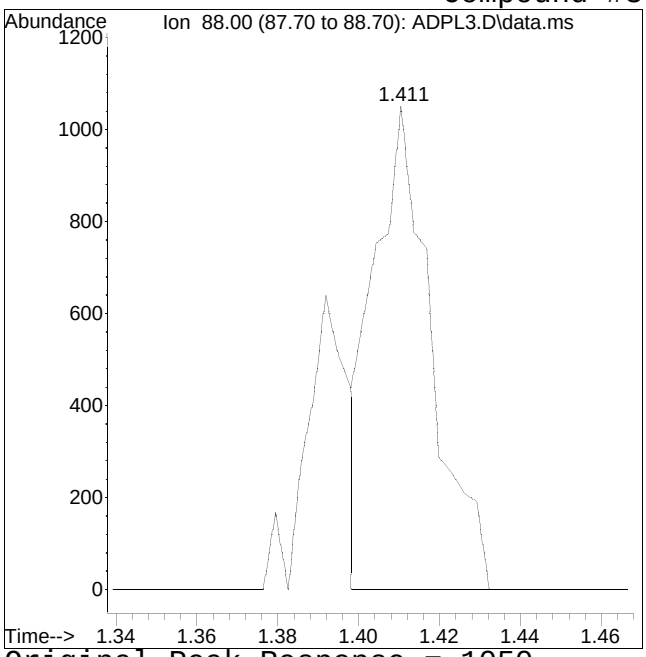
Sub List : ADPical_REV3 - ADP sublistVTICAL\ADPL6.D•



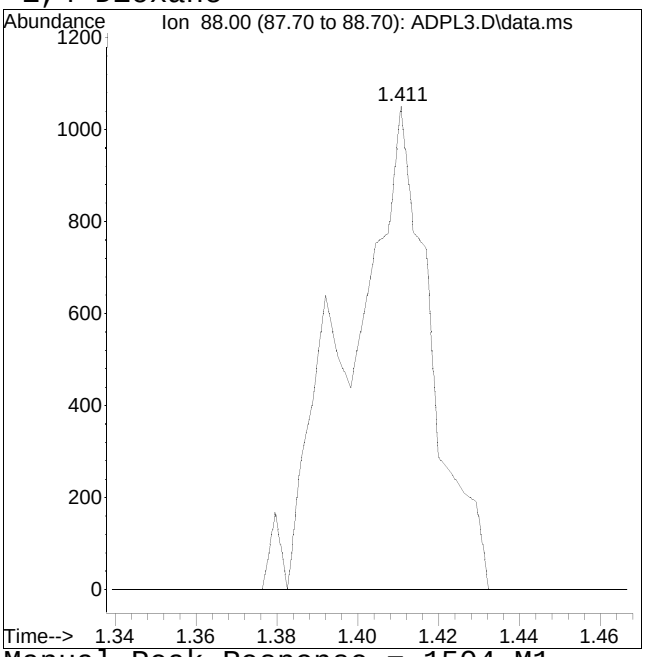
Manual Integration Report

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

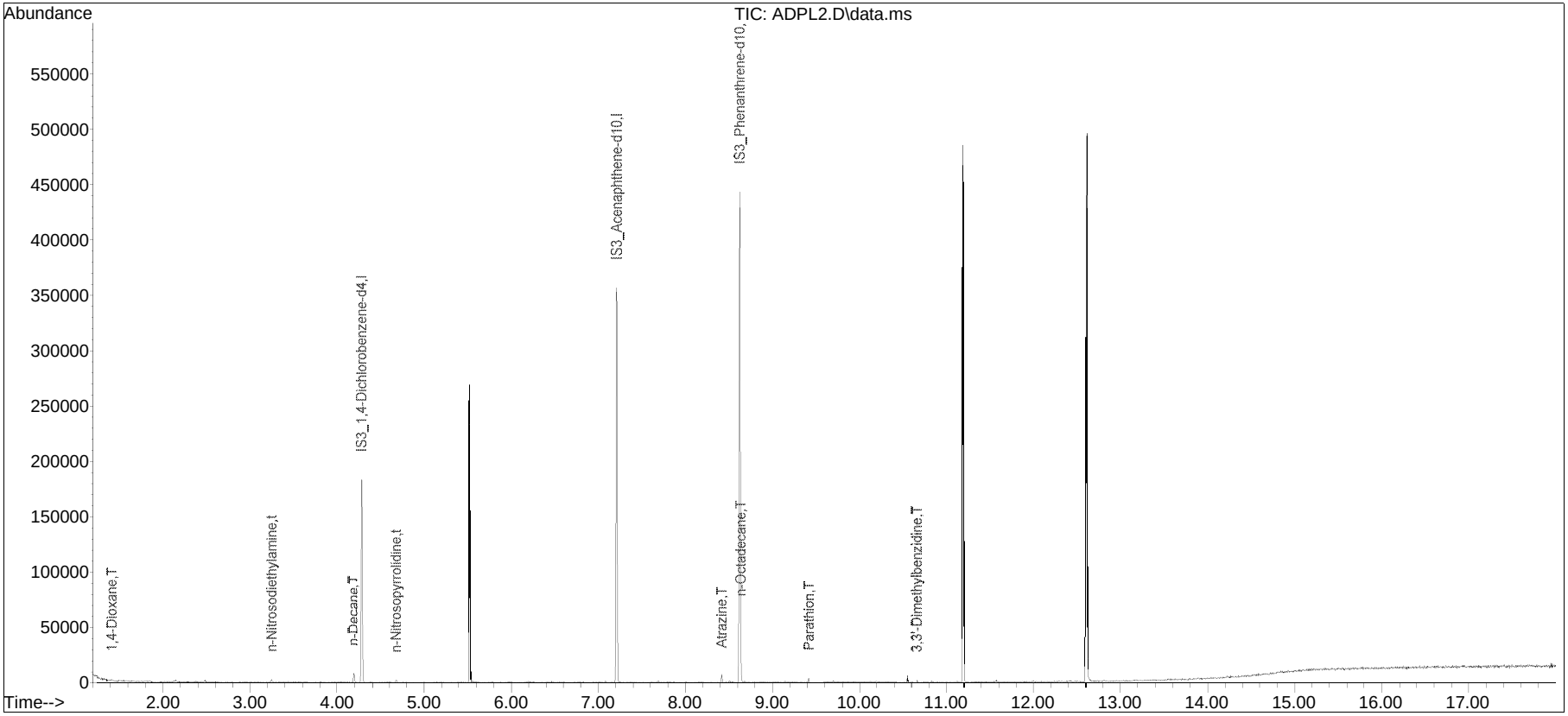
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

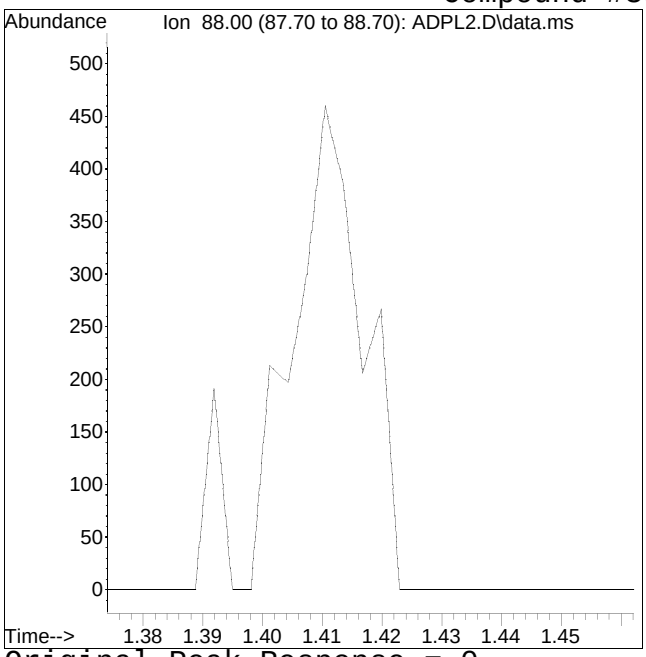
Sub List : ADPical_REV3 - ADP sublistVTICAL\ADPL6.D•



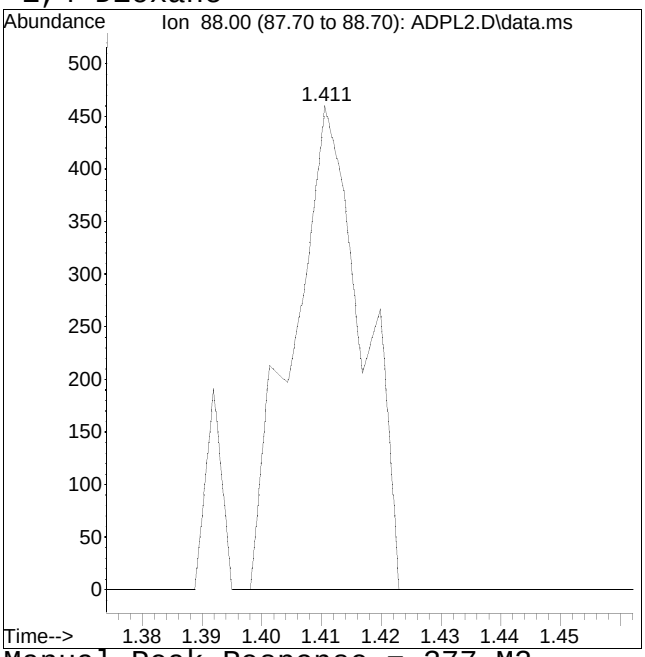
Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ADPL2.D
Date Inj'd : 11/6/2024 3:53 am
Sample : IL9,32,,ADPL0.2 Lot# 11136
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 = 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	

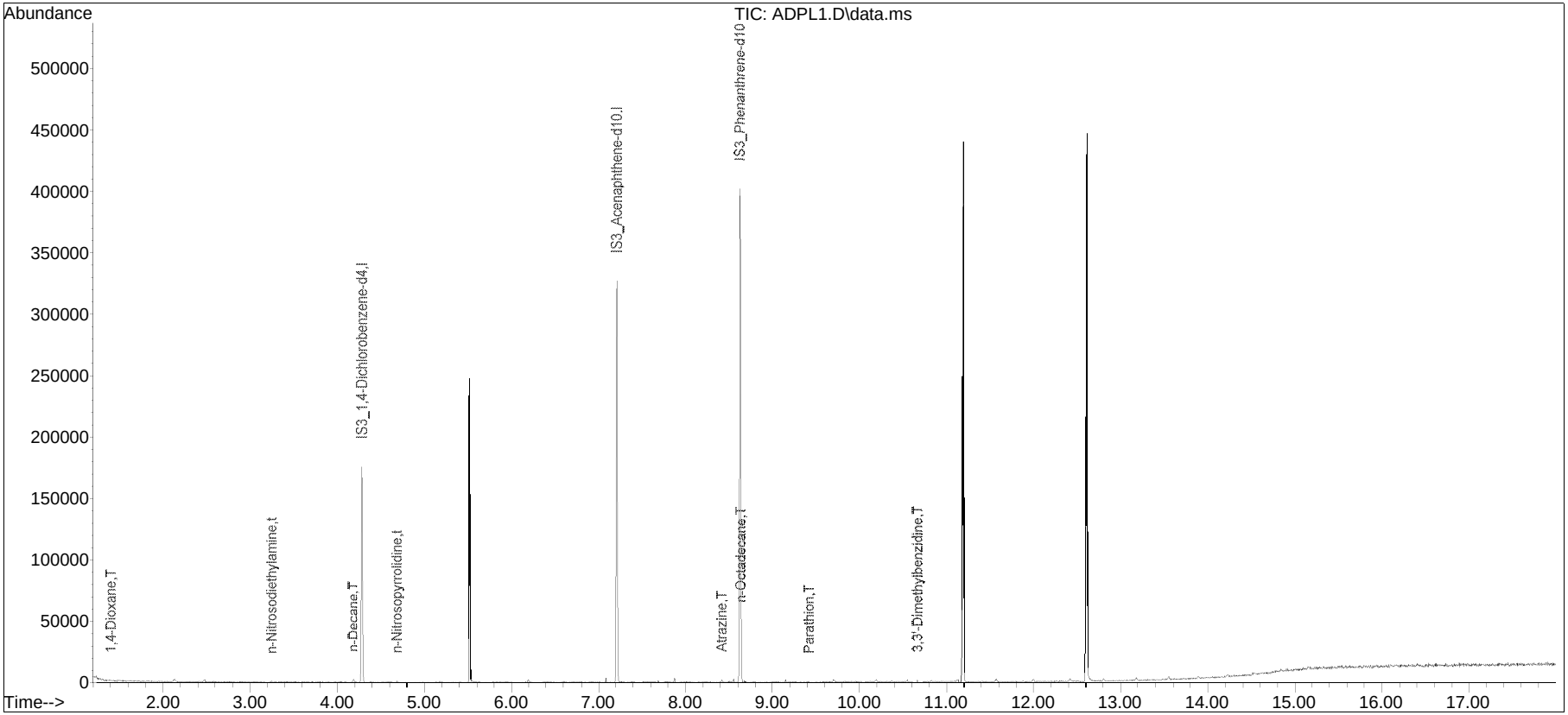
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

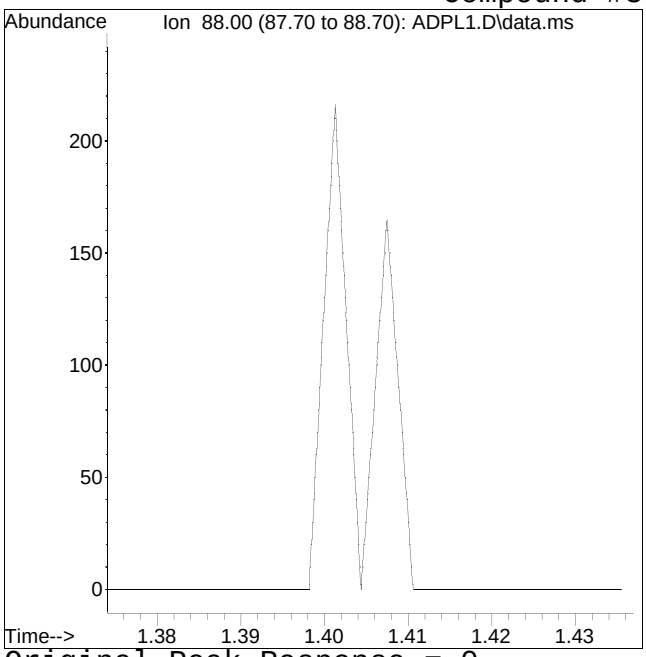
Sub List : ADPical_REV3 - ADP sublistVTICAL\ADPL6.D•



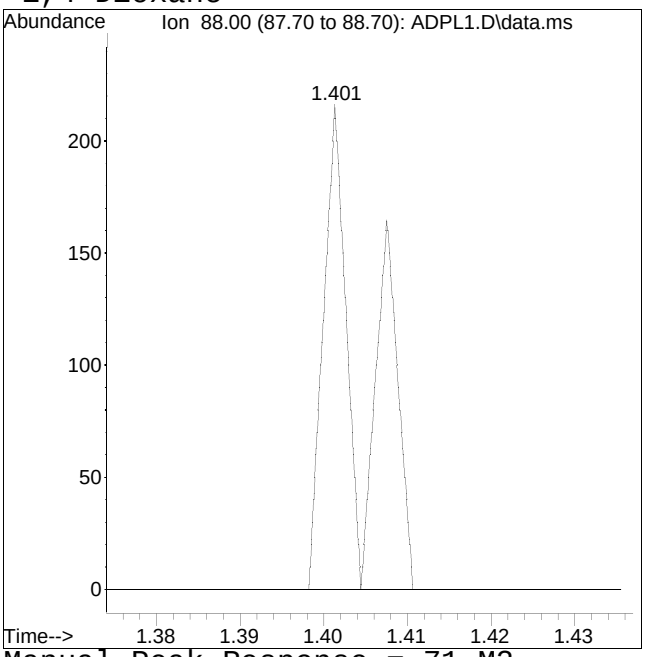
Manual Integration Report

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



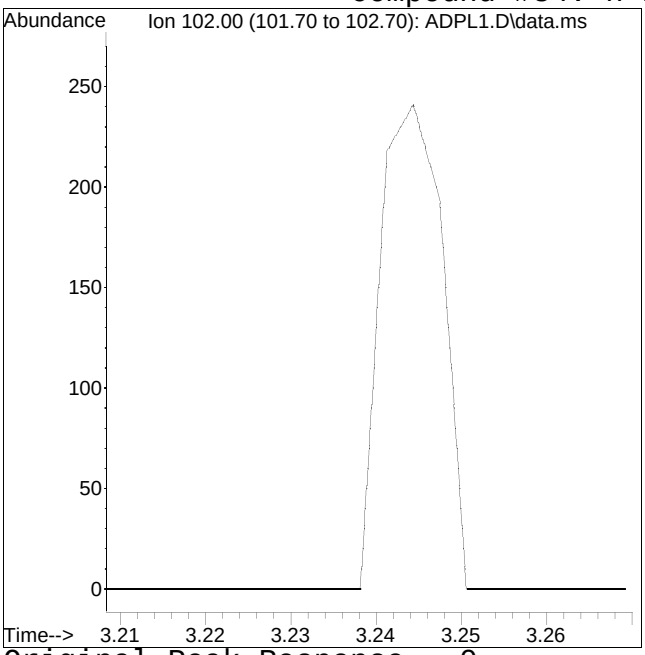
Manual Peak Response = 71 M2

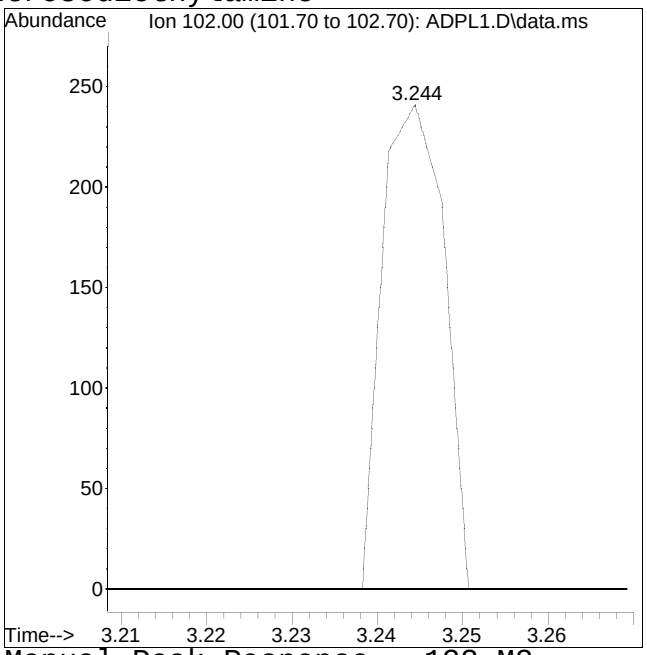
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\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 #34: n-Nitrosodiethylamine



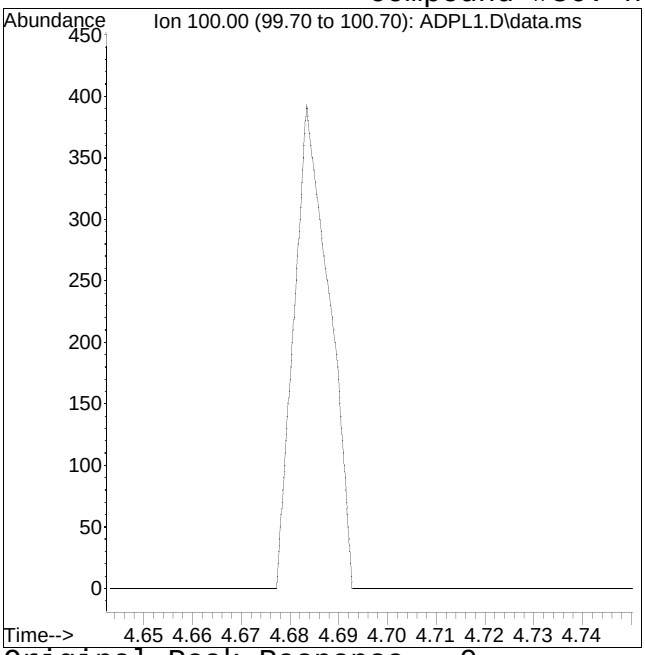


Original Peak Response = 0 Manual Peak Response = 122 M2
M2 = Peak not found by automatic integration algorithm.

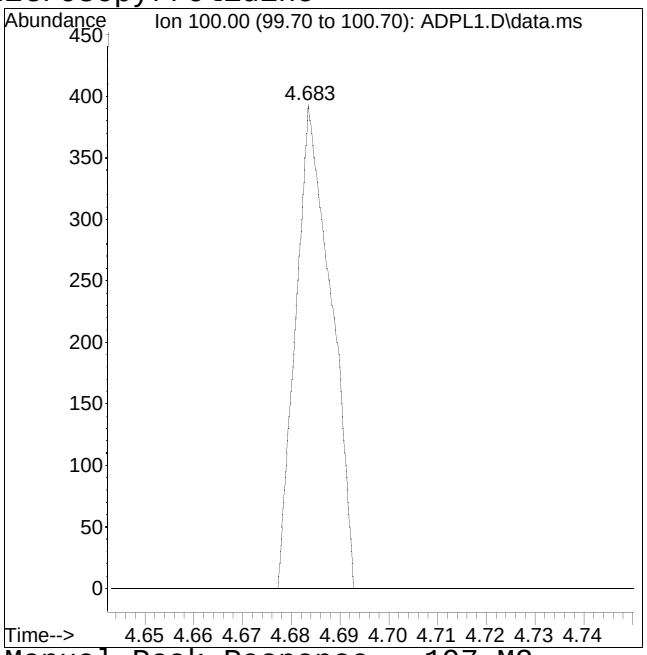
Manual Integration Report

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

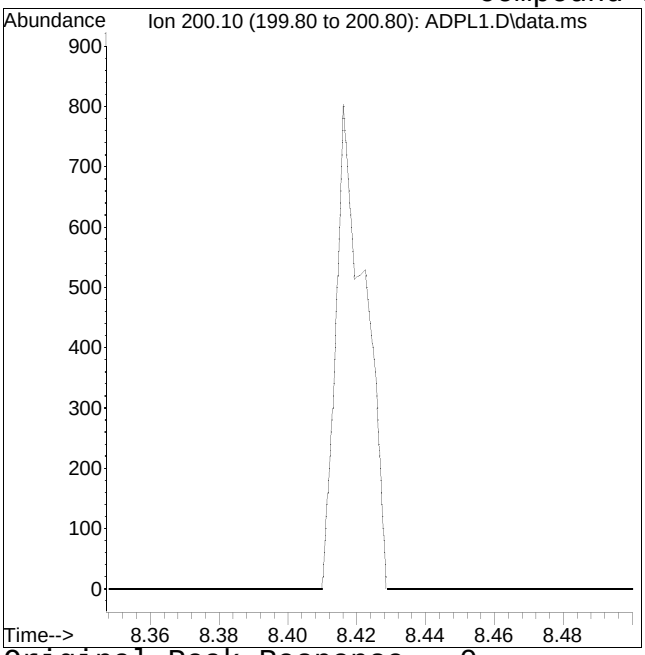
M2 = Peak not found by automatic integration algorithm.

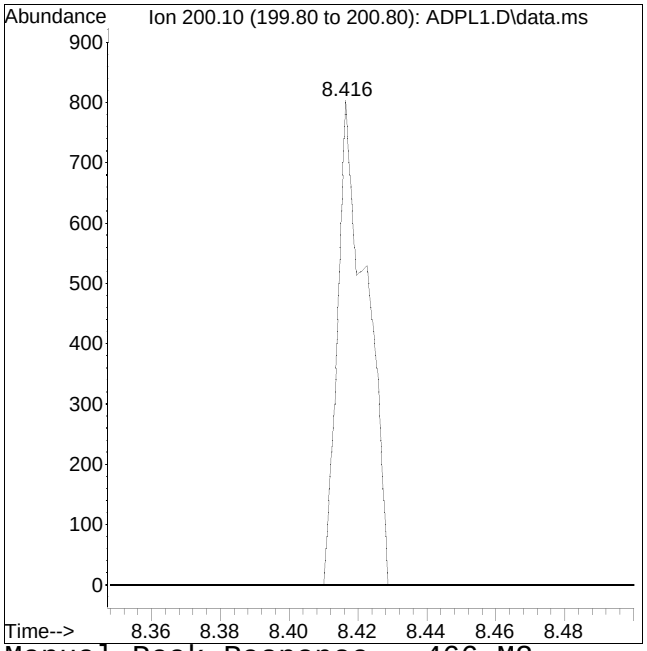
Manual Integration Report

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





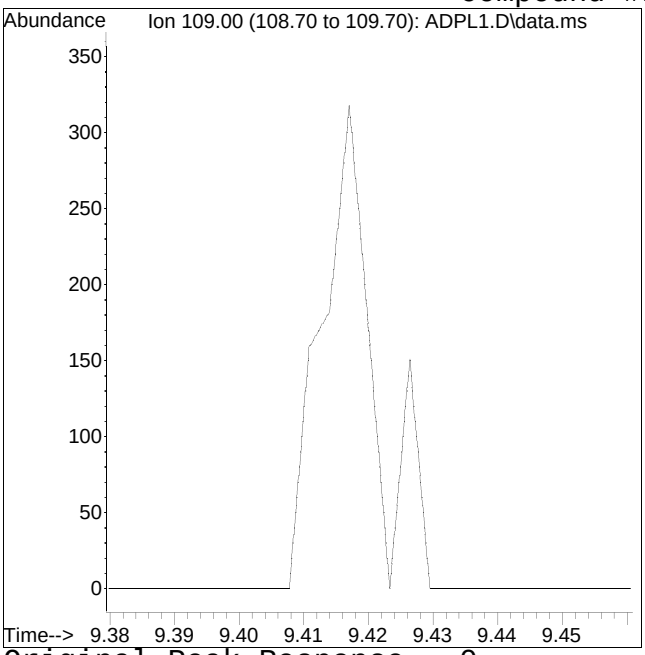
Original Peak Response = 0
Manual Peak Response = 466 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

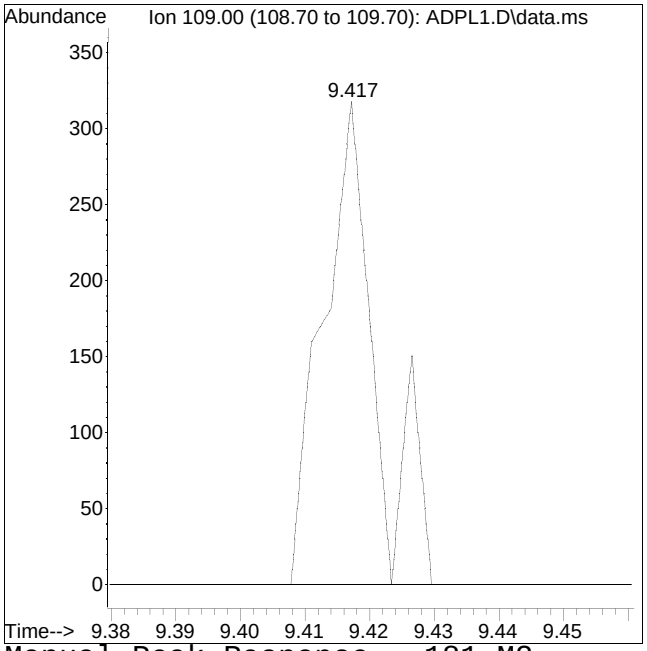
Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ADPL1.D
Date Inj'd : 11/6/2024 4:17 am
Sample : IL10,32,,ADPL0.1 Lot# 1113

Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:36 am

Compound #104: Parathion



Original Peak Response = 0



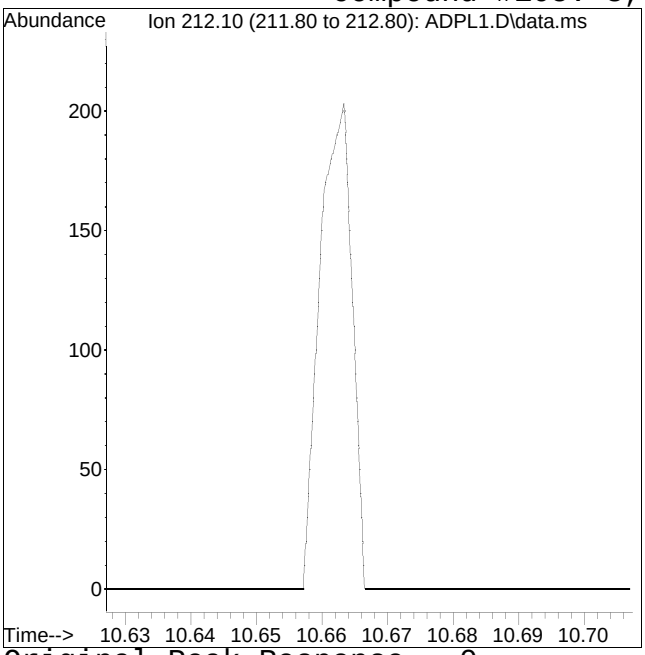
Manual Peak Response = 181 M2

M2 = Peak not found by automatic integration algorithm.

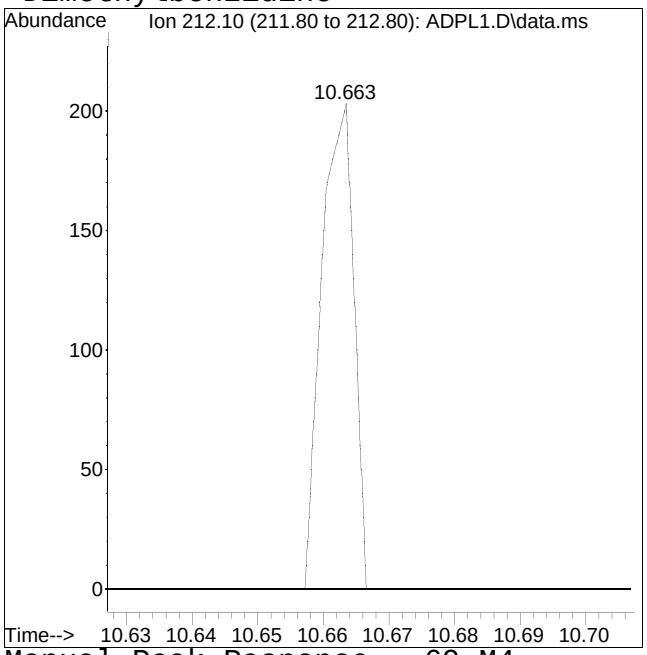
Manual Integration Report

Data Path : I:\8270\Dakota\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 #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

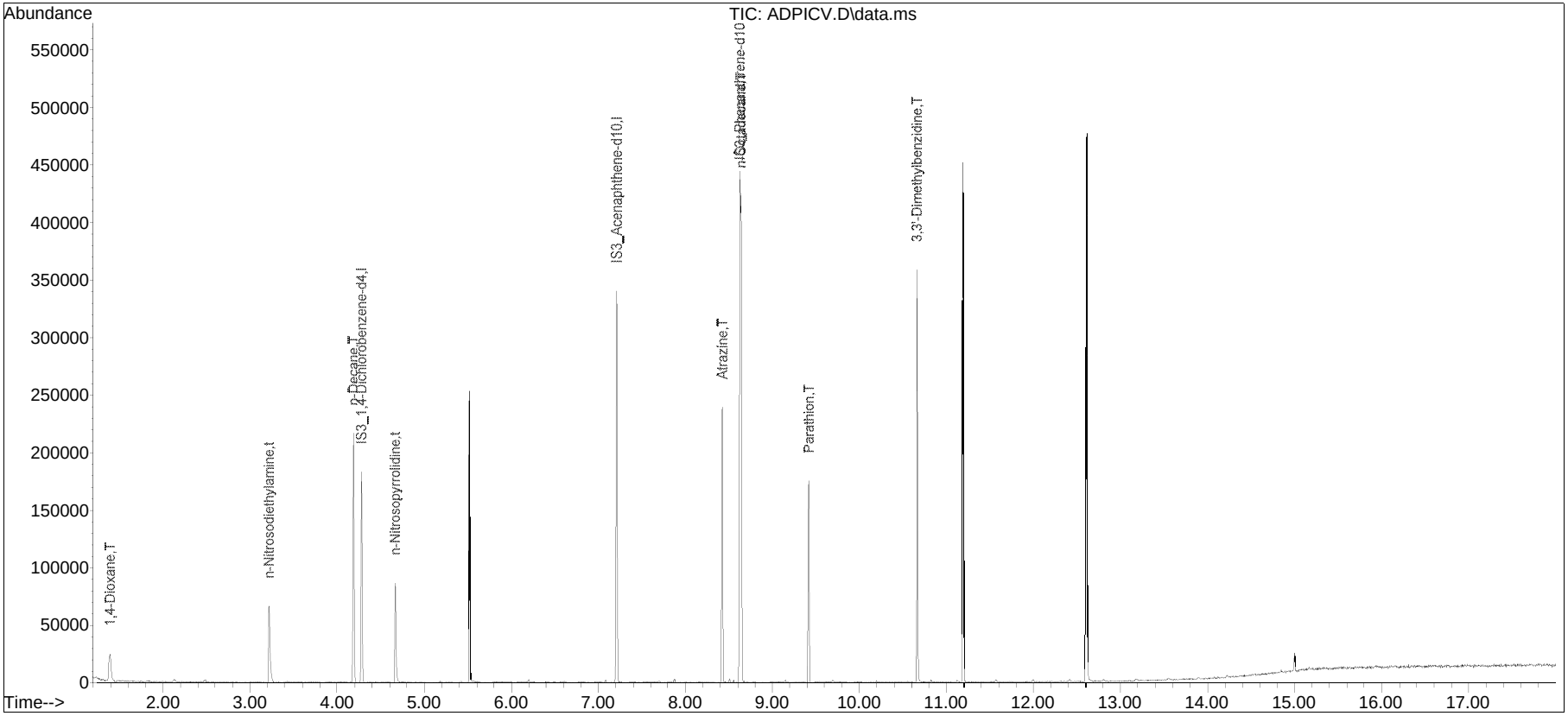
(#) = qualifier out of range (m) = manual integration (+) = signals summed

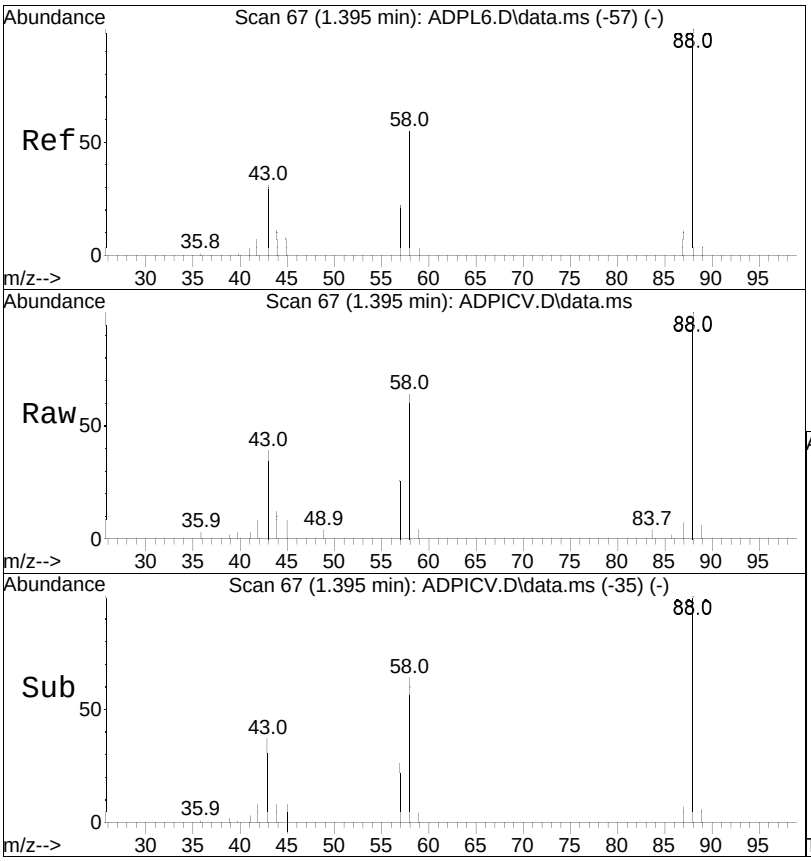
Quantitation Report (QT Reviewed)

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•

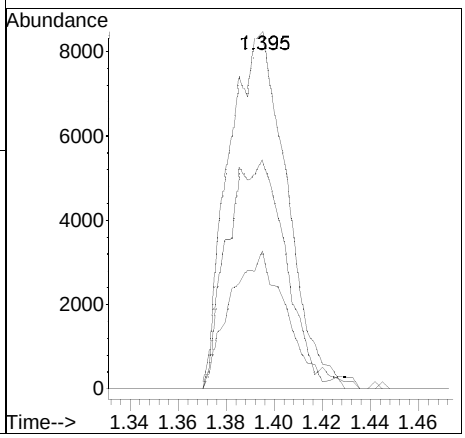


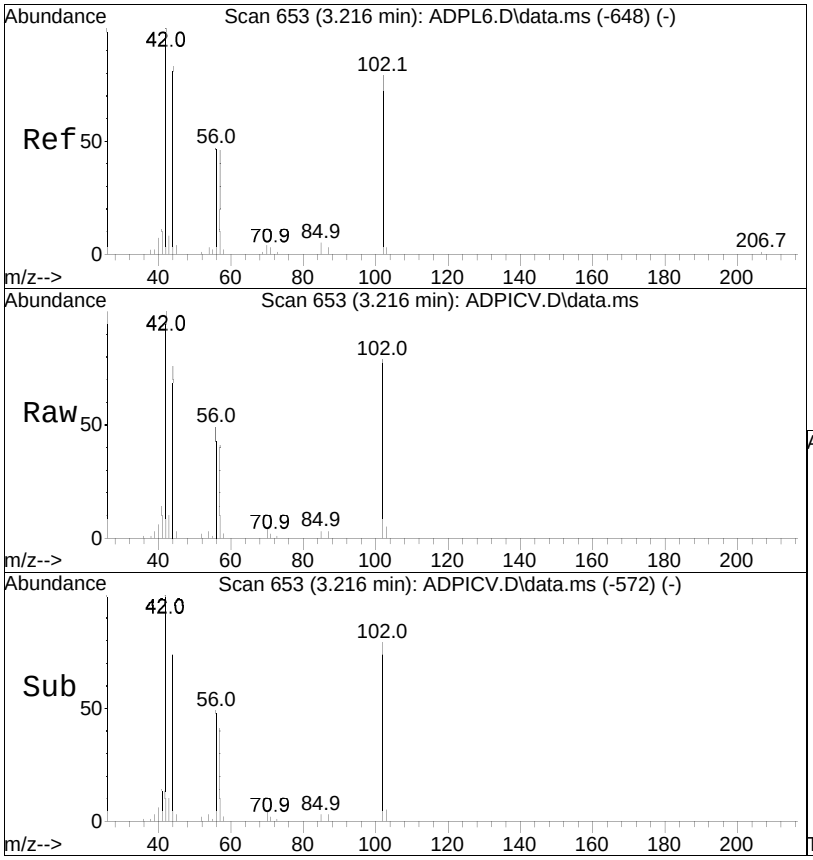


#33
1,4-Dioxane
Concen: 5.35 ug/ml
RT: 1.395 min Scan# 67
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 6 Nov 2024 4:40 am

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#

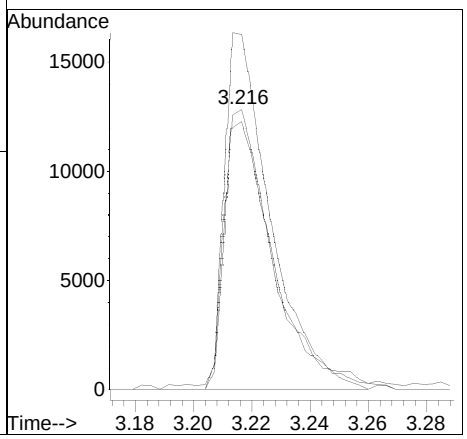


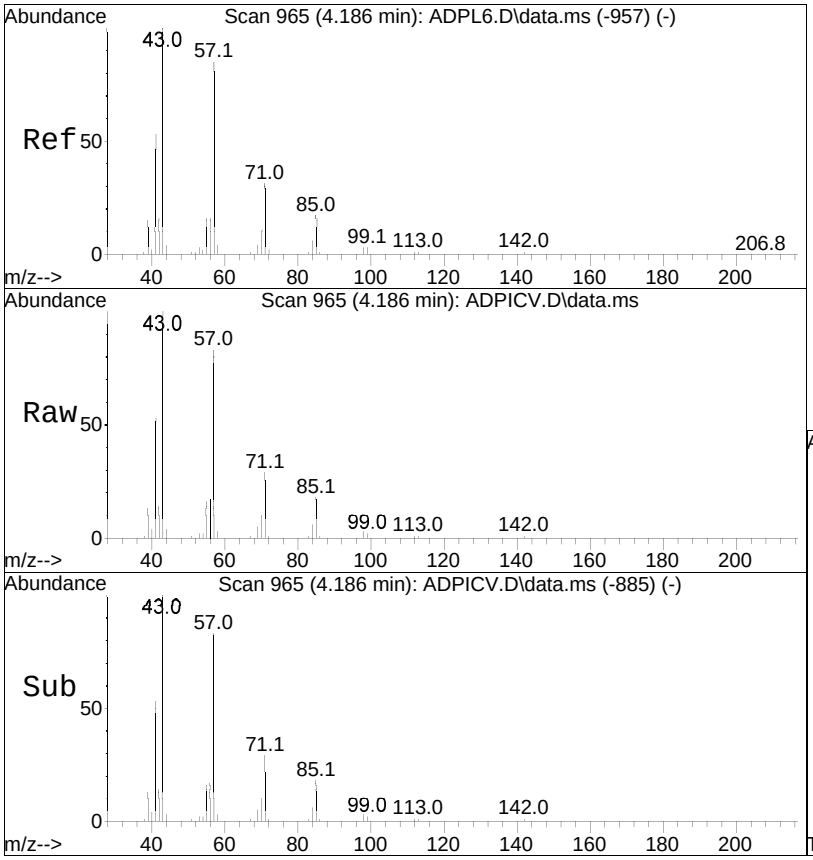


#34
n-Nitrosodiethylamine
Concen: 5.27 ug/ml
RT: 3.216 min Scan# 653
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 6 Nov 2024 4:40 am

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#

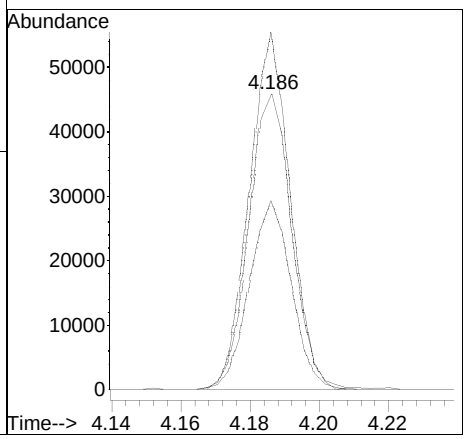


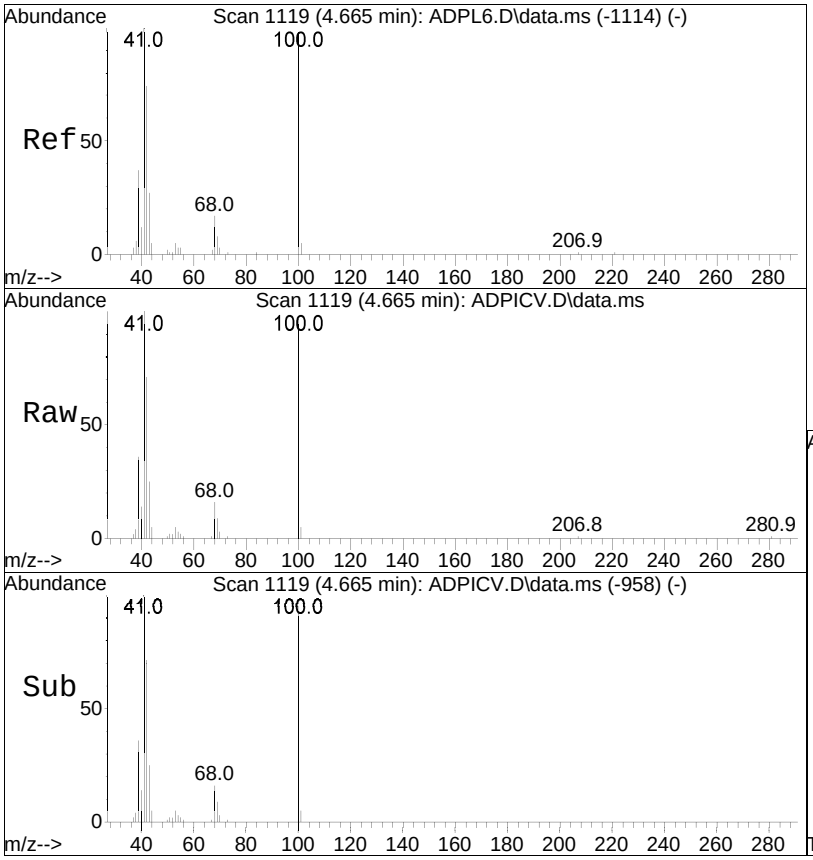


#35
n-Decane
Concen: 5.40 ug/ml
RT: 4.186 min Scan# 965
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 6 Nov 2024 4:40 am

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#

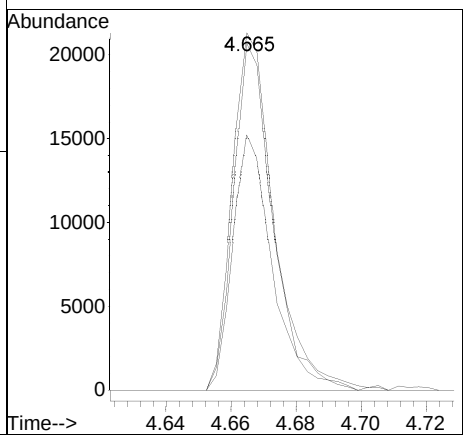


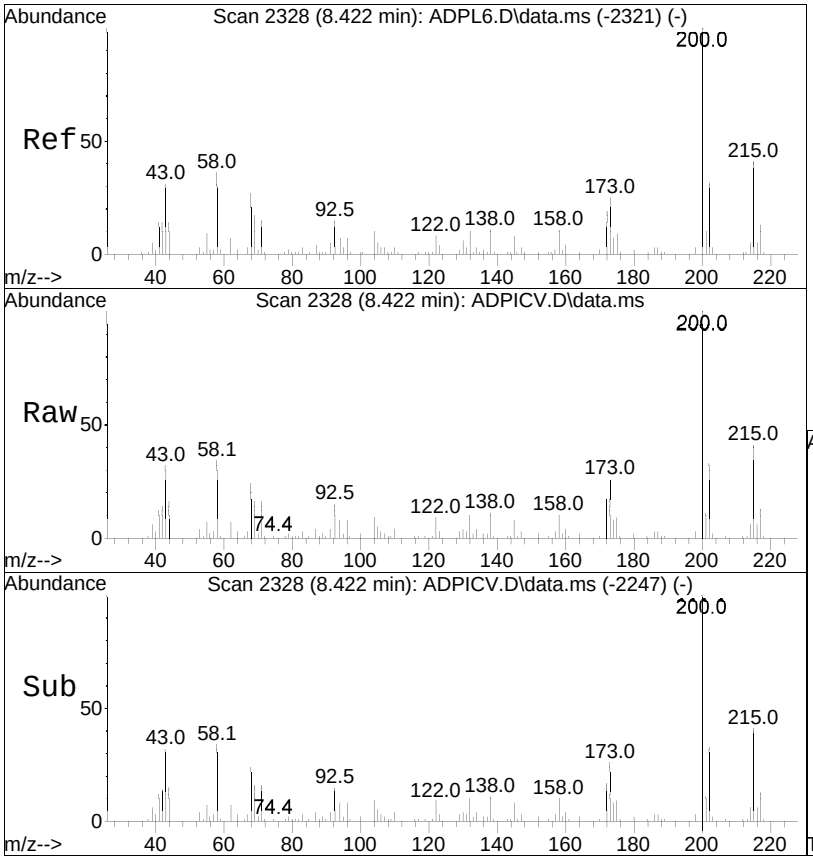


#36
n-Nitrosopyrrolidine
Concen: 5.49 ug/ml
RT: 4.665 min Scan# 1119
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 6 Nov 2024 4:40 am

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#

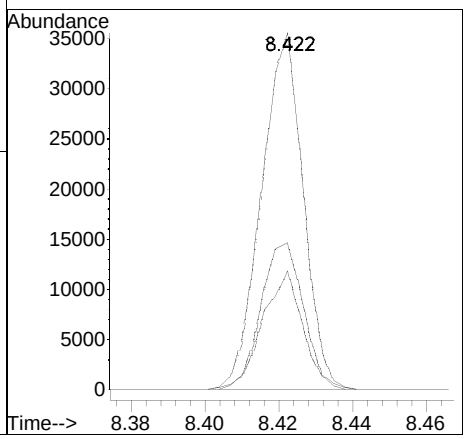


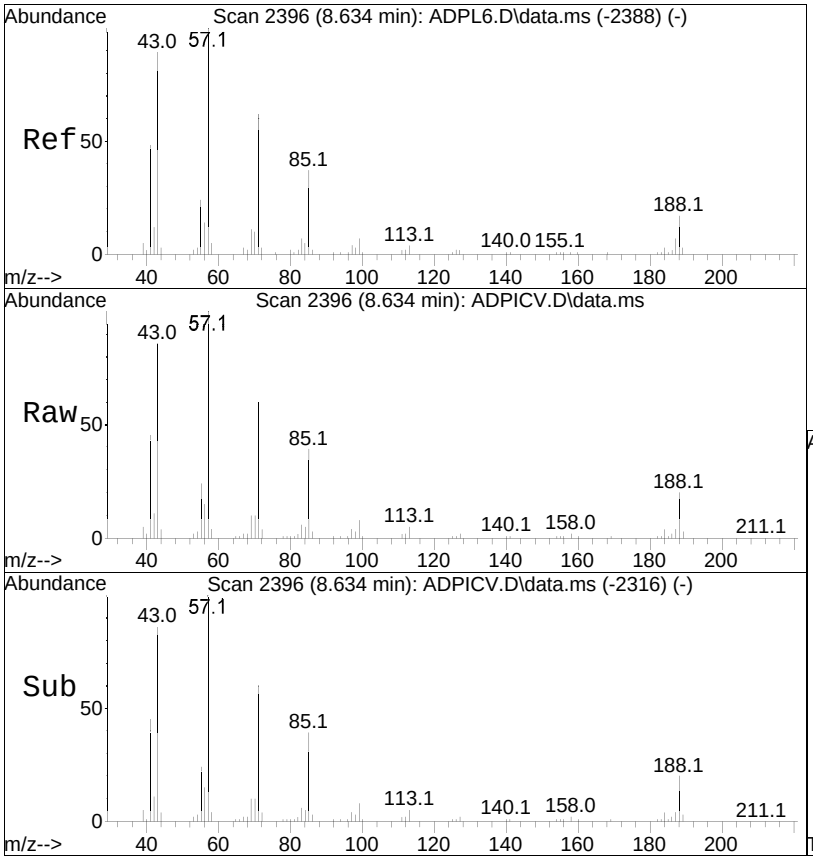


#89
Atrazine
Concen: 5.04 ug/ml
RT: 8.422 min Scan# 2328
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 6 Nov 2024 4:40 am

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

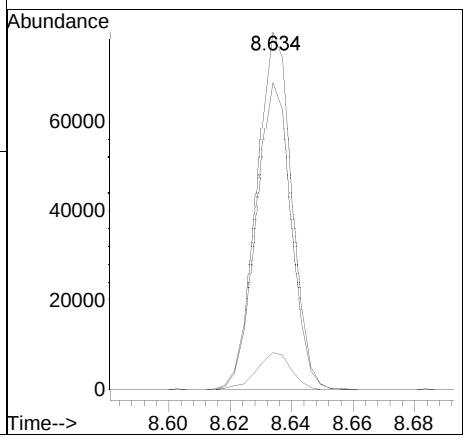


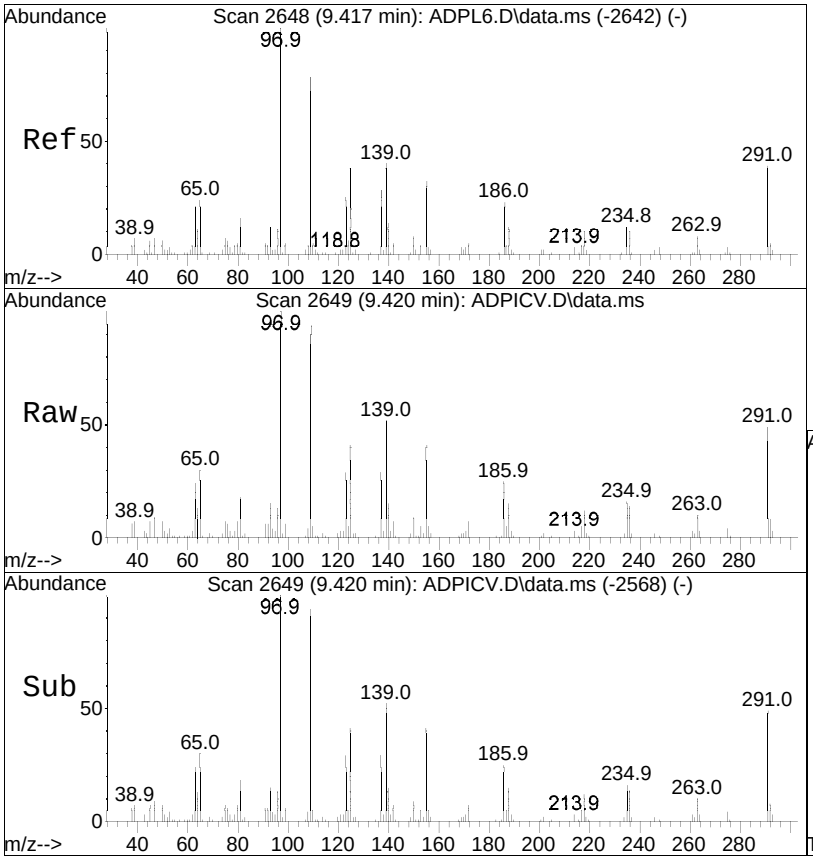


#103
n-Octadecane
Concen: 5.37 ug/ml
RT: 8.634 min Scan# 2396
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 6 Nov 2024 4:40 am

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#

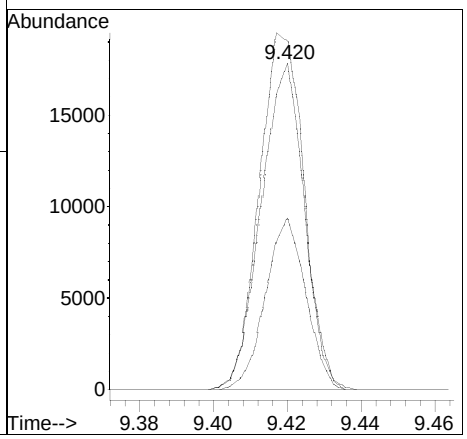


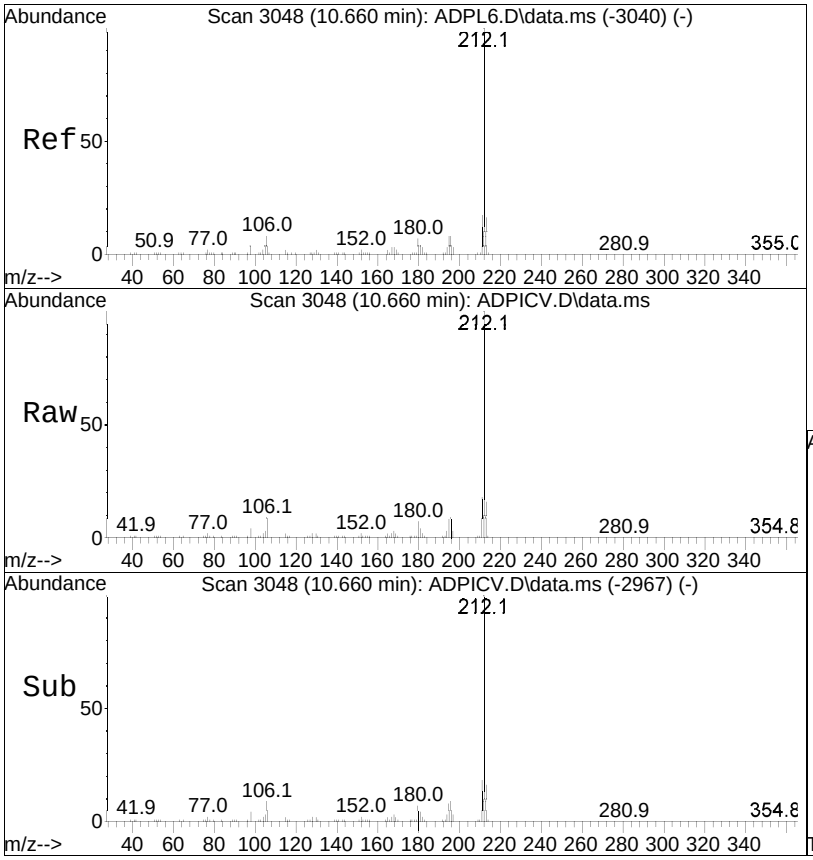


#104
Parathion
Concen: 4.89 ug/ml
RT: 9.420 min Scan# 2649
Delta R.T. 0.003 min
Lab File: ADPICV.D
Acq: 6 Nov 2024 4:40 am

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

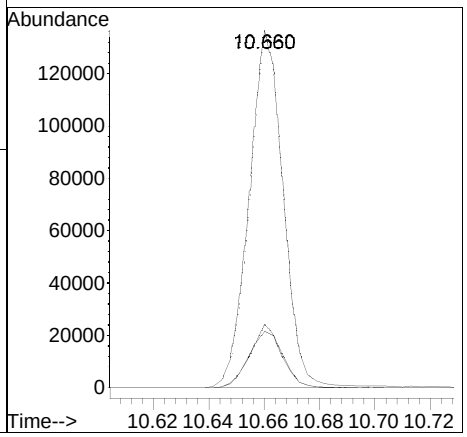




#105
3,3'-Dimethylbenzidine
Concen: 4.51 ug/ml
RT: 10.660 min Scan# 3048
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 6 Nov 2024 4:40 am

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

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 12/16/24 23:14		
Lab File ID	: ABN1216N	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG2008657-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	90	0
n-Nitrosodimethylamine	0.71	0.787	-	-10.8	20	99	0
Pyridine	1.086	1.276	-	-17.5	20	96	0
2-Fluorophenol	1.08	1.186	-	-9.8	20	98	0
Aniline	1.765	1.857	-	-5.2	20	101	0
2-Chlorophenol	1.294	1.303	-	-0.7	20	95	0
Phenol-d6	1.413	1.487	-	-5.2	20	100	0
Phenol	1.566	1.589	-	-1.5	20	98	0
Bis(2-chloroethyl)ether	1.247	1.212	-	2.8	20	97	0
1,3-Dichlorobenzene	1.587	1.511	-	4.8	20	92	0
1,4-Dichlorobenzene	1.599	1.502	-	6.1	20	91	0
1,2-Dichlorobenzene	1.562	1.445	-	7.5	20	91	0
Benzyl alcohol	1.01	1.104	-	-9.3	20	108	0
Bis(2-chloroisopropyl)ethe	1.617	1.876	-	-16	20	115	0
2-Methylphenol	1.126	1.128	-	-0.2	20	101	0
Hexachloroethane	0.563	0.592	-	-5.2	20	98	0
n-Nitrosodi-n-propylamine	0.862	0.919	-	-6.6	20	106	0
3-Methylphenol/4-Methylphe	1.241	1.205	-	2.9	20	99	0
Nitrobenzene-d5	1.368	1.448	-	-5.8	20	105	0
Nitrobenzene	1.312	1.443	-	-10	20	107	0
Isophorone	2.344	2.467	-	-5.2	20	104	0
2-Nitrophenol	0.667	0.664	-	0.4	20	100	0
2,4-Dimethylphenol	1.081	1.086	-	-0.5	20	146	0
Bis(2-chloroethoxy)methane	1.585	1.51	-	4.7	20	98	0
2,4-Dichlorophenol	1.18	1.148	-	2.7	20	96	0
1,2,4-Trichlorobenzene	1.405	1.324	-	5.8	20	95	0
IS1_Naphthalene-d8	1	1	-	0	20	86	0
Naphthalene	1.132	1.071	-	5.4	20	93	0
Benzoic Acid	5	5.333	-	-6.7	20	107	0
4-Chloroaniline	0.126	0.138	-	-9.5	20	98	0
Hexachlorobutadiene	0.224	0.256	-	-14.3	20	108	0
p-Chloro-m-cresol	0.283	0.325	-	-14.8	20	109	0
2-Methylnaphthalene	0.737	0.687	-	6.8	20	90	0
1-Methylnaphthalene	0.238	0.265	-	-11.3	20	105	0
Hexachlorocyclopentadiene	0.212	0.267	-	-25.9*	20	116	0
2,4,6-Trichlorophenol	0.234	0.267	-	-14.1	20	105	0
2,4,5-Trichlorophenol	0.249	0.286	-	-14.9	20	104	0
2-Fluorobiphenyl	0.9	0.873	-	3	20	98	0
2-Chloronaphthalene	0.763	0.71	-	6.9	20	94	0
2-Nitroaniline	0.204	0.224	-	-9.8	20	107	0
1,4-Dinitrobenzene	0.11	0.115	-	-4.5	20	111	0
1,3-Dinitrobenzene	0.129	0.131	-	-1.6	20	107	0
Dimethyl phthalate	0.863	0.898	-	-4.1	20	105	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 12/16/24 23:14		
Lab File ID	: ABN1216N	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG2008657-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.132	1.116	-	1.4	20	98	0
2,6-Dinitrotoluene	0.169	0.186	-	-10.1	20	105	0
1,2-Dinitrobenzene	0.077	0.082	-	-6.5	20	105	0
IS1_Acenaphthene-d10	1	1	-	0	20	97	0
3-Nitroaniline	0.32	0.327	-	-2.2	20	102	0
Acenaphthene	1.138	1.033	-	9.2	20	99	0
2,4-Dinitrophenol	5	4.17	-	16.6	20	106	0
Dibenzofuran	1.879	1.631	-	13.2	20	97	0
2,4-Dinitrotoluene	0.408	0.421	-	-3.2	20	110	0
4-Nitrophenol	0.253	0.264	-	-4.3	20	108	0
2,3,5,6-Tetrachlorophenol	0.341	0.375	-	-10	20	108	0
2,3,4,6-Tetrachlorophenol	0.325	0.371	-	-14.2	20	109	0
Diethyl phthalate	1.327	1.343	-	-1.2	20	113	0
Fluorene	1.404	1.331	-	5.2	20	103	0
4-Chlorophenyl phenyl ethe	0.713	0.678	-	4.9	20	105	0
4-Nitroaniline	0.32	0.327	-	-2.2	20	106	0
4,6-Dinitro-o-cresol	5	5.361	-	-7.2	20	143	0
NDPA/DPA	1.166	1.15	-	1.4	20	106	0
Azobenzene	1.226	1.311	-	-6.9	20	113	0
2,4,6-Tribromophenol	0.187	0.178	-	4.8	20	102	0
4-Bromophenyl phenyl ether	0.385	0.396	-	-2.9	20	113	0
Hexachlorobenzene	0.425	0.397	-	6.6	20	101	0
Pentachlorophenol	5	4.258	-	14.8	20	102	0
IS1_Phenanthrene-d10	1	1	-	0	20	112	0
Phenanthrene	1.151	0.969	-	15.8	20	107	0
Anthracene	1.089	0.982	-	9.8	20	111	0
Carbazole	0.994	0.894	-	10.1	20	109	0
Di-n-butylphthalate	1.094	1.062	-	2.9	20	126	0
Fluoranthene	1.261	1.176	-	6.7	20	116	0
Benzidine	5	4.549	-	9	20	140	0
Pyrene	1.372	1.263	-	7.9	20	115	0
4-Terphenyl-d14	0.946	0.859	-	9.2	20	117	0
Butyl benzyl phthalate	5	4.361	-	12.8	20	143	0
IS1_Chrysene-d12	1	1	-	0	20	117	0
Benzo(a)anthracene	1.453	1.382	-	4.9	20	122	0
3,3'-Dichlorobenzidine	5	4.507	-	9.9	20	131	0
Chrysene	1.403	1.276	-	9.1	20	117	0
Bis(2-ethylhexyl)phthalate	5	4.951	-	1	20	137	0
Di-n-octylphthalate	5	4.737	-	5.3	20	152	0
Benzo(b)fluoranthene	1.251	1.322	-	-5.7	20	130	0
Benzo(k)fluoranthene	1.251	1.114	-	11	20	103	0
Benzo(a)pyrene	1.101	1.139	-	-3.5	20	121	0
IS1_Perylene-d12	1	1	-	0	20	113	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 12/16/24 23:14		
Lab File ID	: ABN1216N	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG2008657-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.098	1.152	-	-4.9	20	122	0
Dibenzo(a,h)anthracene	1.056	1.043	-	1.2	20	113	0
Benzo(ghi)perylene	0.977	1.027	-	-5.1	20	114	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: DAKOTA	**Calibration Date**	: 12/16/24 23:28		
Lab File ID	: ABN1216NA	**Init. Calib. Date(s)**	: 11/05/24	11/06/24	
Sample No	: WG2009953-3	**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	91	0
n-Nitrosodimethylamine	0.63	0.66	-	-4.8	20	97	0
Pyridine	0.954	1.113	-	-16.7	20	100	0
2-Fluorophenol	1.028	1.011	-	1.7	20	92	0
Aniline	1.567	1.532	-	2.2	20	91	0
2-Chlorophenol	1.225	1.194	-	2.5	20	90	0
Phenol-d6	1.317	1.263	-	4.1	20	91	0
Phenol	1.421	1.379	-	3	20	91	0
Bis(2-chloroethyl)ether	1.017	0.983	-	3.3	20	92	0
1,3-Dichlorobenzene	1.577	1.486	-	5.8	20	90	0
1,4-Dichlorobenzene	1.61	1.494	-	7.2	20	89	0
1,2-Dichlorobenzene	1.534	1.465	-	4.5	20	91	0
Benzyl alcohol	0.93	0.928	-	0.2	20	93	0
Bis(2-chloroisopropyl)ethe	1.794	1.891	-	-5.4	20	101	0
2-Methylphenol	1.079	1.036	-	4	20	93	0
Hexachloroethane	0.589	0.553	-	6.1	20	93	0
n-Nitrosodi-n-propylamine	0.863	0.823	-	4.6	20	93	0
3-Methylphenol/4-Methylphe	1.182	1.122	-	5.1	20	93	0
Nitrobenzene-d5	1.195	1.213	-	-1.5	20	94	0
Nitrobenzene	1.222	1.255	-	-2.7	20	95	0
Isophorone	2.247	2.218	-	1.3	20	93	0
2-Nitrophenol	0.619	0.65	-	-5	20	99	0
2,4-Dimethylphenol	1.101	1.014	-	7.9	20	87	0
Bis(2-chloroethoxy)methane	1.4	1.415	-	-1.1	20	96	0
2,4-Dichlorophenol	1.285	1.252	-	2.6	20	92	0
1,2,4-Trichlorobenzene	1.555	1.42	-	8.7	20	88	0
IS1_Naphthalene-d8	1	1	-	0	20	93	0
Naphthalene	1.1	1.017	-	7.5	20	92	0
Benzoic Acid	0.228	0.206	-	9.6	20	93	0
4-Chloroaniline	0.121	0.118	-	2.5	20	92	0
Hexachlorobutadiene	0.258	0.236	-	8.5	20	87	0
p-Chloro-m-cresol	0.29	0.279	-	3.8	20	92	0
2-Methylnaphthalene	0.761	0.712	-	6.4	20	94	0
1-Methylnaphthalene	0.242	0.23	-	5	20	92	0
Hexachlorocyclopentadiene	0.272	0.267	-	1.8	20	92	0
2,4,6-Trichlorophenol	0.287	0.286	-	0.3	20	95	0
2,4,5-Trichlorophenol	0.32	0.299	-	6.6	20	92	0
2-Fluorobiphenyl	0.99	0.919	-	7.2	20	93	0
2-Chloronaphthalene	0.852	0.789	-	7.4	20	92	0
2-Nitroaniline	0.218	0.221	-	-1.4	20	95	0
1,4-Dinitrobenzene	0.095	0.101	-	-6.3	20	99	0
1,3-Dinitrobenzene	0.113	0.114	-	-0.9	20	92	0
Dimethyl phthalate	0.991	0.981	-	1	20	99	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: DAKOTA	**Calibration Date**	: 12/16/24 23:28		
Lab File ID	: ABN1216NA	**Init. Calib. Date(s)**	: 11/05/24	11/06/24	
Sample No	: WG2009953-3	**Init. Calib. Times**	: 16:59	04:17	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.252	1.236	-	1.3	20	97	0
2,6-Dinitrotoluene	0.185	0.2	-	-8.1	20	100	0
1,2-Dinitrobenzene	0.066	0.07	-	-6.1	20	93	0
IS1_Acenaphthene-d10	1	1	-	0	20	98	0
3-Nitroaniline	0.309	0.309	-	0	20	97	0
Acenaphthene	1.163	1.03	-	11.4	20	95	0
2,4-Dinitrophenol	0.188	0.155	-	17.6	20	88	0
Dibenzofuran	2.006	1.79	-	10.8	20	96	0
2,4-Dinitrotoluene	0.387	0.421	-	-8.8	20	102	0
4-Nitrophenol	0.23	0.257	-	-11.7	20	108	0
2,3,5,6-Tetrachlorophenol	0.436	0.427	-	2.1	20	98	0
2,3,4,6-Tetrachlorophenol	0.428	0.418	-	2.3	20	99	0
Diethyl phthalate	1.575	1.504	-	4.5	20	103	0
Fluorene	1.536	1.4	-	8.9	20	96	0
4-Chlorophenyl phenyl ethe	0.792	0.7	-	11.6	20	95	0
4-Nitroaniline	0.299	0.313	-	-4.7	20	98	0
4,6-Dinitro-o-cresol	0.234	0.246	-	-5.1	20	100	0
NDPA/DPA	1.337	1.212	-	9.3	20	97	0
Azobenzene	1.281	1.254	-	2.1	20	101	0
2,4,6-Tribromophenol	0.286	0.308	-	-7.7	20	111	0
4-Bromophenyl phenyl ether	0.522	0.469	-	10.2	20	97	0
Hexachlorobenzene	0.656	0.618	-	5.8	20	103	0
Pentachlorophenol	0.356	0.304	-	14.6	20	83	0
IS1_Phenanthrene-d10	1	1	-	0	20	101	0
Phenanthrene	1.183	1.077	-	9	20	100	0
Anthracene	1.16	1.066	-	8.1	20	99	0
Carbazole	1.064	1.002	-	5.8	20	99	0
Di-n-butylphthalate	1.207	1.205	-	0.2	20	102	0
Fluoranthene	1.422	1.313	-	7.7	20	100	0
Benzidine	0.772	0.753	-	2.5	20	94	0
Pyrene	1.52	1.425	-	6.2	20	100	0
4-Terphenyl-d14	1.157	1.032	-	10.8	20	97	0
Butyl benzyl phthalate	0.517	0.53	-	-2.5	20	102	0
IS1_Chrysene-d12	1	1	-	0	20	103	0
Benzo(a)anthracene	1.355	1.218	-	10.1	20	100	0
3,3'-Dichlorobenzidine	0.505	0.483	-	4.4	20	99	0
Chrysene	1.349	1.172	-	13.1	20	98	0
Bis(2-ethylhexyl)phthalate	0.726	0.75	-	-3.3	20	105	0
Di-n-octylphthalate	1.212	1.219	-	-0.6	20	103	0
Benzo(b)fluoranthene	1.42	1.325	-	6.7	20	104	0
Benzo(k)fluoranthene	1.383	1.248	-	9.8	20	95	0
Benzo(a)pyrene	1.267	1.177	-	7.1	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**	: L2473162		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: DAKOTA	**Calibration Date**	: 12/16/24 23:28		
Lab File ID	: ABN1216NA	**Init. Calib. Date(s)**	: 11/05/24	11/06/24	
Sample No	: WG2009953-3	**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	1.127	-	8.7	20	97	0
Dibenzo(a,h)anthracene	1.213	1.094	-	9.8	20	94	0
Benzo(ghi)perylene	1.192	1.102	-	7.6	20	99	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 12/16/24 23:40		
Lab File ID	: AP91216N	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG2008657-4	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	110	0
Benzaldehyde	1.145	1.009	-	11.9	20	101	0
Acetophenone	2.032	1.786	-	12.1	20	101	0
m-Toluidine	1.86	1.673	-	10.1	20	97	0
2-Chloroaniline	1.773	1.544	-	12.9	20	96	0
IS2_Naphthalene-d8	1	1	-	0	20	101	0
a-Terpineol	0.297	0.307	-	-3.4	20	102	0
3-Chloroaniline	0.163	0.162	-	0.6	20	99	0
2,6-Dichlorophenol	0.319	0.311	-	2.5	20	95	0
1-chloro-2-nitrobenzene	0.155	0.151	-	2.6	20	99	0
Caprolactam	5	4.99	-	0.2	20	114	0
1,2,4,5-Tetrachlorobenzene	0.444	0.409	-	7.9	20	97	0
Biphenyl	1.036	0.823	-	20.6*	20	85	0
IS2_Acenaphthene-d10	1	1	-	0	20	101	0
Dichloran	5	4.645	-	7.1	20	118	0
Pentachloronitrobenzene	5	5.192	-	-3.8	20	125	0
IS2_Phenanthrene-d10	1	1	-	0	20	108	0
Diphenamid	0.507	0.482	-	4.9	20	107	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: DAKOTA	**Calibration Date**	: 12/16/24 23:50		
Lab File ID	: AP91216NA	**Init. Calib. Date(s)**	: 11/05/24	11/06/24	
Sample No	: WG2009953-4	**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	92	0
Benzaldehyde	0.703	0.751	-	-6.8	20	91	0
Acetophenone	1.403	1.498	-	-6.8	20	94	0
m-Toluidine	1.287	1.38	-	-7.2	20	96	0
2-Chloroaniline	1.368	1.502	-	-9.8	20	97	0
IS2_Naphthalene-d8	1	1	-	0	20	97	0
a-Terpineol	0.221	0.247	-	-11.8	20	102	0
3-Chloroaniline	0.115	0.125	-	-8.7	20	97	0
2,6-Dichlorophenol	0.296	0.323	-	-9.1	20	98	0
1-chloro-2-nitrobenzene	0.113	0.125	-	-10.6	20	96	0
Caprolactam	0.123	0.135	-	-9.8	20	103	0
1,2,4,5-Tetrachlorobenzene	0.413	0.41	-	0.7	20	91	0
Biphenyl	0.842	0.875	-	-3.9	20	95	0
IS2_Acenaphthene-d10	1	1	-	0	20	97	0
Dichloran	0.169	0.188	-	-11.2	20	111	0
Pentachloronitrobenzene	0.187	0.212	-	-13.4	20	114	0
IS2_Phenanthrene-d10	1	1	-	0	20	101	0
Diphenamid	0.416	0.468	-	-12.5	20	109	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 12/17/24 00:06		
Lab File ID	: ADP1216N	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG2008657-5	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	117	0
1,4-Dioxane	0.459	0.451	-	1.7	20	131	0
n-Decane	1.388	1.423	-	-2.5	20	131	0
IS3_Acenaphthene-d10	1	1	-	0	20	109	0
Atrazine	0.315	0.375	-	-19	20	130	0
IS3_Phenanthrene-d10	1	1	-	0	20	115	0
n-Octadecane	0.381	0.377	-	1	20	116	0
Parathion	5	6.757	-	-35.1*	20	193	0
3,3'-Dimethylbenzidine	5	4.049	-	19	20	118	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: DAKOTA	**Calibration Date**	: 12/17/24 00:13		
Lab File ID	: ADP1216NA	**Init. Calib. Date(s)**	: 11/05/24	11/06/24	
Sample No	: WG2009953-5	**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	95	0
1,4-Dioxane	0.381	0.4	-	-5	20	95	0
n-Decane	1.048	1.091	-	-4.1	20	95	0
IS3_Acenaphthene-d10	1	1	-	0	20	100	0
Atrazine	0.343	0.347	-	-1.2	20	101	0
IS3_Phenanthrene-d10	1	1	-	0	20	103	0
n-Octadecane	0.334	0.365	-	-9.3	20	113	0
Parathion	5	5.361	-	-7.2	20	124	0
3,3'-Dimethylbenzidine	0.728	0.683	-	6.2	20	108	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\241216NRVT\
Data File : ABN1216n.D
Acq On : 16 Dec 2024 11:14 pm
Operator : SV107:ljg
Sample : WG2008657-3,32,,ABN RVT CCV Lot # 11043
Misc : WG2008657,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 16 23:42:32 2024
Quant Method : I:\8270\SV107\241216NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 23:44:08 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	90	0.00
2	t	n-Nitrosodimethylamine		0.710	0.787	-10.8	99	0.00
3	t	Pyridine		1.086	1.276	-17.5	96	0.00
4	S	2-Fluorophenol		1.080	1.186	-9.8	98	0.00
5	T	Aniline		1.765	1.857	-5.2	101	0.00
6	t	2-Chlorophenol		1.294	1.303	-0.7	95	0.00
7	S	Phenol-d6		1.413	1.487	-5.2	100	0.00
8	T	Phenol		1.566	1.589	-1.5	98	0.00
9	T	Bis(2-chloroethyl)ether		1.247	1.212	2.8	97	0.00
10	T	1,3-Dichlorobenzene		1.587	1.511	4.8	92	0.00
11	T	1,4-Dichlorobenzene		1.599	1.502	6.1	91	0.00
12	T	1,2-Dichlorobenzene		1.562	1.445	7.5	91	0.00
13	t	Benzyl alcohol		1.010	1.104	-9.3	108	0.00
14	T	Bis(2-chloroisopropyl)ether		1.617	1.876	-16.0	115	0.00
15	T	2-Methylphenol		1.126	1.128	-0.2	101	0.00
16	T	Hexachloroethane		0.563	0.592	-5.2	98	0.00
17	T	n-Nitrosodi-n-propylamine		0.862	0.919	-6.6	106	0.00
18	T	3-Methylphenol/4-Methylphen		1.241	1.205	2.9	99	0.00
19	S	Nitrobenzene-d5		1.368	1.448	-5.8	105	0.00
20	T	Nitrobenzene		1.312	1.443	-10.0	107	0.00
21	T	Isophorone		2.344	2.467	-5.2	104	0.00
22	T	2-Nitrophenol		0.667	0.664	0.4	100	0.00
23	T	2,4-Dimethylphenol		1.081	1.086	-0.5	146	0.00
24	T	Bis(2-chloroethoxy)methane		1.585	1.510	4.7	98	0.00
25	T	2,4-Dichlorophenol		1.180	1.148	2.7	96	0.00
26	T	1,2,4-Trichlorobenzene		1.405	1.324	5.8	95	0.00
35	I	IS1_Naphthalene-d8		1.000	1.000	0.0	86	0.00
36	T	Naphthalene		1.132	1.071	5.4	93	0.00
37	T	Benzoic Acid	*	5.000	5.333	-6.7	107	0.00
38	T	4-Chloroaniline		0.126	0.138	-9.5	98	0.00
39	T	Hexachlorobutadiene		0.224	0.256	-14.3	108	0.00
40	T	p-Chloro-m-cresol		0.283	0.325	-14.8	109	0.00
41	T	2-Methylnaphthalene		0.737	0.687	6.8	90	0.00
42	T	1-Methylnaphthalene		0.238	0.265	-11.3	105	0.00
43	T	Hexachlorocyclopentadiene		0.212	0.267	-25.9#	116	0.00
44	T	2,4,6-Trichlorophenol		0.234	0.267	-14.1	105	0.00
45	T	2,4,5-Trichlorophenol		0.249	0.286	-14.9	104	0.00
46	S	2-Fluorobiphenyl		0.900	0.873	3.0	98	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\241216NRVT\
Data File : ABN1216n.D
Acq On : 16 Dec 2024 11:14 pm
Operator : SV107:ljg
Sample : WG2008657-3,32,,ABN RVT CCV Lot # 11043
Misc : WG2008657,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 16 23:42:32 2024
Quant Method : I:\8270\SV107\241216NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 23:44:08 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)
47	T	2-Chloronaphthalene		0.763	0.710	6.9	94	0.00
48	T	2-Nitroaniline		0.204	0.224	-9.8	107	0.00
49	T	1,4-Dinitrobenzene		0.110	0.115	-4.5	111	0.00
50	T	1,3-Dinitrobenzene		0.129	0.131	-1.6	107	0.00
51	T	Dimethyl phthalate		0.863	0.898	-4.1	105	0.00
52	T	Acenaphthylene		1.132	1.116	1.4	98	0.00
53	T	2,6-Dinitrotoluene		0.169	0.186	-10.1	105	0.00
54	T	1,2-Dinitrobenzene		0.077	0.082	-6.5	105	0.00
63	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	97	0.00
64	T	3-Nitroaniline		0.320	0.327	-2.2	102	0.00
65	T	Acenaphthene		1.138	1.033	9.2	99	0.00
66	T	2,4-Dinitrophenol	*	5.000	4.170	16.6	106	0.00
67	T	Dibenzofuran		1.879	1.631	13.2	97	0.00
68	T	2,4-Dinitrotoluene		0.408	0.421	-3.2	110	0.00
69	T	4-Nitrophenol		0.253	0.264	-4.3	108	0.00
70	T	2,3,5,6-Tetrachlorophenol		0.341	0.375	-10.0	108	0.00
71	T	2,3,4,6-Tetrachlorophenol		0.325	0.371	-14.2	109	0.00
72	T	Diethyl phthalate		1.327	1.343	-1.2	113	0.00
73	T	Fluorene		1.404	1.331	5.2	103	0.00
74	T	4-Chlorophenyl phenyl ether		0.713	0.678	4.9	105	0.00
75	T	4-Nitroaniline		0.320	0.327	-2.2	106	0.00
76	T	4,6-Dinitro-o-cresol	*	5.000	5.361	-7.2	143	0.00
77	T	NDPA/DPA		1.166	1.150	1.4	106	0.00
78	T	Azobenzene		1.226	1.311	-6.9	113	0.00
79	S	2,4,6-Tribromophenol		0.187	0.178	4.8	102	0.00
80	T	4-Bromophenyl phenyl ether		0.385	0.396	-2.9	113	0.00
81	T	Hexachlorobenzene		0.425	0.397	6.6	101	0.00
82	T	Pentachlorophenol	*	5.000	4.258	14.8	102	0.00
88	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	112	0.00
89	T	Phenanthrene		1.151	0.969	15.8	107	0.00
90	T	Anthracene		1.089	0.982	9.8	111	0.00
91	T	Carbazole		0.994	0.894	10.1	109	0.00
92	T	Di-n-butylphthalate		1.094	1.062	2.9	126	0.00
93	T	Fluoranthene		1.261	1.176	6.7	116	0.00
94	T	Benzidine	*	5.000	4.549	9.0	140	0.00
95	T	Pyrene		1.372	1.263	7.9	115	0.00
96	S	4-Terphenyl-d14		0.946	0.859	9.2	117	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\241216NRVT\
Data File : ABN1216n.D
Acq On : 16 Dec 2024 11:14 pm
Operator : SV107:ljg
Sample : WG2008657-3,32,,ABN RVT CCV Lot # 11043
Misc : WG2008657,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 16 23:42:32 2024
Quant Method : I:\8270\SV107\241216NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 23:44:08 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)
97	T	Butyl benzyl phthalate	*	5.000	4.361	12.8	143	0.00
104	I	IS1_Chrysene-d12		1.000	1.000	0.0	117	0.00
105	T	Benzo(a)anthracene		1.453	1.382	4.9	122	0.00
106	T	3,3'-Dichlorobenzidine	*	5.000	4.507	9.9	131	0.00
107	T	Chrysene		1.403	1.276	9.1	117	0.00
108	T	Bis(2-ethylhexyl)phthalate	*	5.000	4.951	1.0	137	0.00
109	T	Di-n-octylphthalate	*	5.000	4.737	5.3	152	0.00
110	T	Benzo(b)fluoranthene		1.251	1.322	-5.7	130	0.00
111	T	Benzo(k)fluoranthene		1.251	1.114	11.0	103	0.00
112	T	Benzo(a)pyrene		1.101	1.139	-3.5	121	0.00
113	I	IS1_Perylene-d12		1.000	1.000	0.0	113	0.00
114	T	Indeno(1,2,3-cd)pyrene		1.098	1.152	-4.9	122	0.00
115	T	Dibenzo(a,h)anthracene		1.056	1.043	1.2	113	0.00
116	T	Benzo(ghi)perylene		0.977	1.027	-5.1	114	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\SV107\241216NRVT\
Data File : ABN1216n.D
Acq On : 16 Dec 2024 11:14 pm
Operator : SV107:ljg
Sample : WG2008657-3,32,,ABN RVT CCV Lot # 11043
Misc : WG2008657,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 16 23:42:32 2024
Quant Method : I:\8270\SV107\241216NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 23:44:08 2024
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...	6.425	152	13003	4.000	ug/ml		0.00
35) IS1_Naphthalene-d8	7.848	136	46064	4.000	ug/ml		0.00
63) IS1_Acenaphthene-d10	9.607	164	29301	4.000	ug/ml		0.00
88) IS1_Phenanthrene-d10	11.042	188	62102	4.000	ug/ml		0.00
104) IS1_Chrysene-d12	13.665	240	57573	4.000	ug/ml	#	0.00
113) IS1_Perylene-d12	15.124	264	60333	4.000	ug/ml		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.548	112	19271	5.489	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 274.45%#				
7) Phenol-d6	6.060	99	24174	5.263	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 263.15%#				
19) Nitrobenzene-d5	7.078	82	23537	5.294	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 529.40%#				
46) 2-Fluorobiphenyl	8.966	172	50245	4.848	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 484.80%#				
79) 2,4,6-Tribromophenol	10.371	330	6503	4.739	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 236.95%#				
96) 4-Terphenyl-d14	12.613	244	66646	4.539	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 453.90%#				
Target Compounds							Qvalue
2) n-Nitrosodimethylamine	2.148	74	12785	5.537	ug/ml	#	63
3) Pyridine	2.178	79	20734	5.871	ug/ml	#	65
5) Aniline	6.019	93	30188	5.261	ug/ml		98
6) 2-Chlorophenol	6.166	128	21174	5.033	ug/ml		95
8) Phenol	6.078	94	25833	5.073	ug/ml		96
9) Bis(2-chloroethyl)ether	6.148	93	19701	4.859	ug/ml	#	80
10) 1,3-Dichlorobenzene	6.348	146	24552	4.758	ug/ml		99
11) 1,4-Dichlorobenzene	6.442	146	24414	4.695	ug/ml		99
12) 1,2-Dichlorobenzene	6.625	146	23490	4.627	ug/ml		98
13) Benzyl alcohol	6.636	79	17946	5.468	ug/ml		97
14) Bis(2-chloroisopropyl)...	6.807	45	30487	5.799	ug/ml	#	53
15) 2-Methylphenol	6.807	108	18337	5.008	ug/ml		97
16) Hexachloroethane	7.013	117	9622	5.260	ug/ml	#	57
17) n-Nitrosodi-n-propylamine	6.954	70	14934	5.329	ug/ml		94
18) 3-Methylphenol/4-Methy...	6.989	108	19592	4.856	ug/ml		94
20) Nitrobenzene	7.101	77	23454	5.499	ug/ml		97
21) Isophorone	7.378	82	40106	5.264	ug/ml		94
22) 2-Nitrophenol	7.460	139	10798	4.984	ug/ml	#	92

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\241216NRVT\
Data File : ABN1216n.D
Acq On : 16 Dec 2024 11:14 pm
Operator : SV107:ljg
Sample : WG2008657-3,32,,ABN RVT CCV Lot # 11043
Misc : WG2008657,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 16 23:42:32 2024
Quant Method : I:\8270\SV107\241216NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 23:44:08 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	7.560	107	17648	5.020	ug/ml	94
24) Bis(2-chloroethoxy)met...	7.648	93	24540	4.763	ug/ml	99
25) 2,4-Dichlorophenol	7.725	162	18653	4.861	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.801	180	21516	4.711	ug/ml	97
36) Naphthalene	7.866	128	61659	4.730	ug/ml	99
37) Benzoic Acid	7.654	105	12087	5.333	ug/ml	98
38) 4-Chloroaniline	7.954	65	7937	5.453	ug/ml	91
39) Hexachlorobutadiene	8.036	225	14761	5.727	ug/ml	97
40) p-Chloro-m-cresol	8.477	107	18685	5.736	ug/ml	95
41) 2-Methylnaphthalene	8.583	142	39548	4.658	ug/ml	94
42) 1-Methylnaphthalene	8.677	115	15241	5.556	ug/ml	81
43) Hexachlorocyclopentadiene	8.760	237	15357	6.300	ug/ml	99
44) 2,4,6-Trichlorophenol	8.883	196	15349	5.694	ug/ml	99
45) 2,4,5-Trichlorophenol	8.913	196	16482	5.755	ug/ml	98
47) 2-Chloronaphthalene	9.060	162	40891	4.654	ug/ml	97
48) 2-Nitroaniline	9.177	138	12925	5.499	ug/ml	92
49) 1,4-Dinitrobenzene	9.307	168	6615	5.229	ug/ml	84
50) 1,3-Dinitrobenzene	9.383	168	7517	5.059	ug/ml#	1
51) Dimethyl phthalate	9.383	163	51693	5.204	ug/ml#	99
52) Acenaphthylene	9.466	152	64285	4.929	ug/ml	98
53) 2,6-Dinitrotoluene	9.424	165	10695	5.501	ug/ml#	87
54) 1,2-Dinitrobenzene	9.466	168	4744	5.371	ug/ml#	1
64) 3-Nitroaniline	9.577	138	11986	5.113	ug/ml	99
65) Acenaphthene	9.636	154	37843	4.540	ug/ml	90
66) 2,4-Dinitrophenol	9.677	184	5353	4.170	ug/ml#	89
67) Dibenzofuran	9.807	168	59724	4.339	ug/ml	100
68) 2,4-Dinitrotoluene	9.813	165	15437	5.160	ug/ml	97
69) 4-Nitrophenol	9.772	65	9685	5.225	ug/ml#	83
70) 2,3,5,6-Tetrachlorophenol	9.901	232	13729	5.495	ug/ml	99
71) 2,3,4,6-Tetrachlorophenol	9.942	232	13589	5.703	ug/ml	98
72) Diethyl phthalate	10.072	149	49185	5.060	ug/ml	97
73) Fluorene	10.142	166	48760	4.740	ug/ml	93
74) 4-Chlorophenyl phenyl ...	10.160	204	24819	4.753	ug/ml	90
75) 4-Nitroaniline	10.166	138	11966	5.102	ug/ml#	80
76) 4,6-Dinitro-o-cresol	10.201	198	9920	5.361	ug/ml#	63
77) NDPA/DPA	10.271	169	42119	4.932	ug/ml	97
78) Azobenzene	10.307	77	48034	5.347	ug/ml	98
80) 4-Bromophenyl phenyl e...	10.630	248	14502	5.143	ug/ml#	88
81) Hexachlorobenzene	10.677	284	14525	4.669	ug/ml#	86
82) Pentachlorophenol	10.871	266	8921	4.258	ug/ml	98
89) Phenanthrene	11.060	178	75248	4.210	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\241216NRVT\
Data File : ABN1216n.D
Acq On : 16 Dec 2024 11:14 pm
Operator : SV107:ljg
Sample : WG2008657-3,32,,ABN RVT CCV Lot # 11043
Misc : WG2008657,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 16 23:42:32 2024
Quant Method : I:\8270\SV107\241216NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 23:44:08 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
90)	Anthracene	11.113	178	76203	4.507	ug/ml	98
91)	Carbazole	11.277	167	69403	4.499	ug/ml	98
92)	Di-n-butylphthalate	11.666	149	82403	4.851	ug/ml	99
93)	Fluoranthene	12.213	202	91323	4.665	ug/ml#	91
94)	Benzidine	12.360	184	51516	4.549	ug/ml#	95
95)	Pyrene	12.424	202	98011	4.602	ug/ml	99
97)	Butyl benzyl phthalate	13.136	149	37952	4.361	ug/ml	92
105)	Benzo(a)anthracene	13.654	228	99467	4.755	ug/ml	99
106)	3,3'-Dichlorobenzidine	13.654	252	33810	4.507	ug/ml#	97
107)	Chrysene	13.689	228	91849	4.547	ug/ml	97
108)	Bis(2-ethylhexyl)phtha...	13.771	149	55925	4.951	ug/ml#	94
109)	Di-n-octylphthalate	14.442	149	93877	4.737	ug/ml#	72
110)	Benzo(b)fluoranthene	14.754	252	95114	5.280	ug/ml#	92
111)	Benzo(k)fluoranthene	14.783	252	80184	4.452	ug/ml#	94
112)	Benzo(a)pyrene	15.065	252	81953	5.173	ug/ml#	93
114)	Indeno(1,2,3-cd)pyrene	16.101	276	86843M6	5.244	ug/mL	
115)	Dibenzo(a,h)anthracene	16.124	278	78653	4.940	ug/ml#	89
116)	Benzo(ghi)perylene	16.353	276	77418	5.251	ug/ml#	87

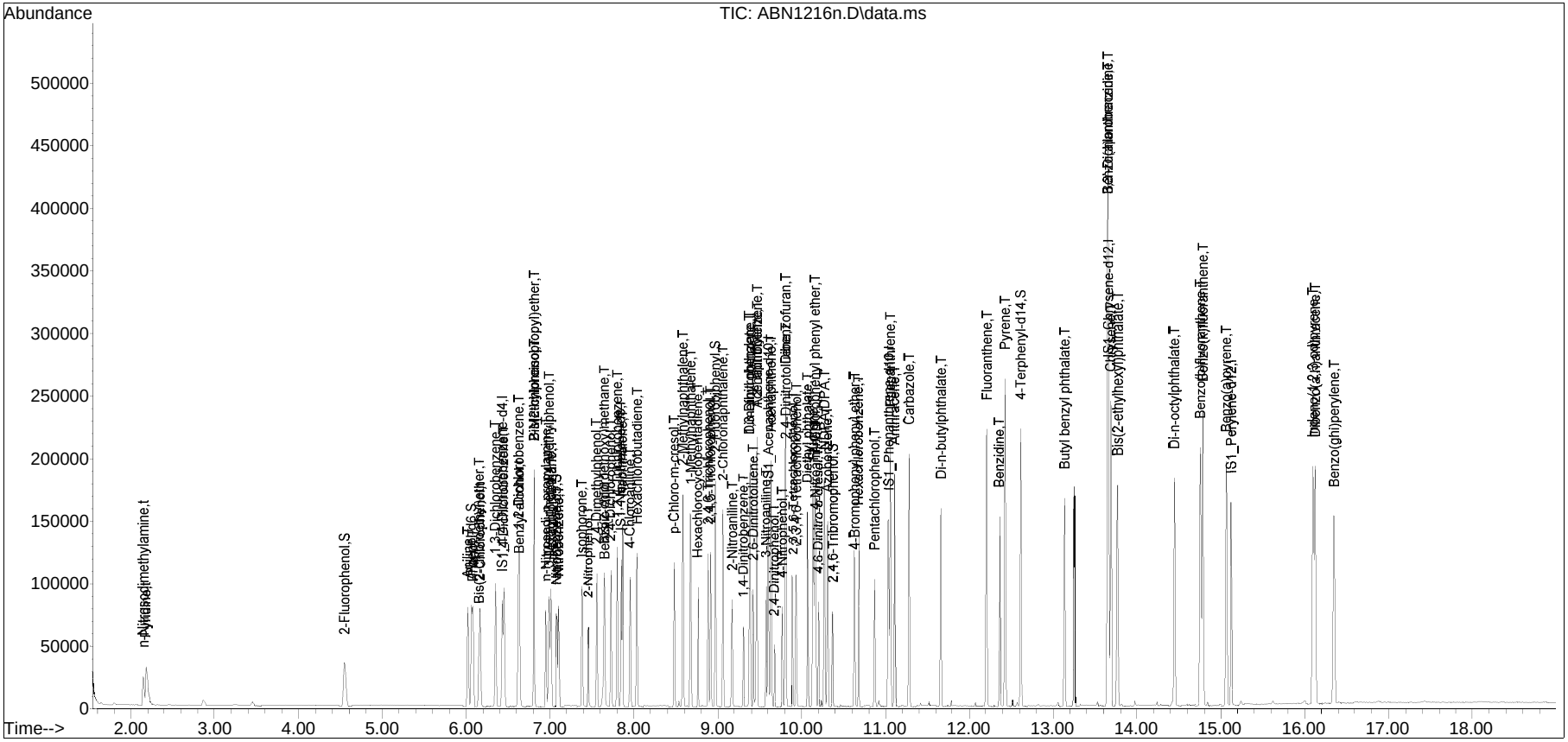
(#) = qualifier out of range (m) = manual integration (+) = signals summed

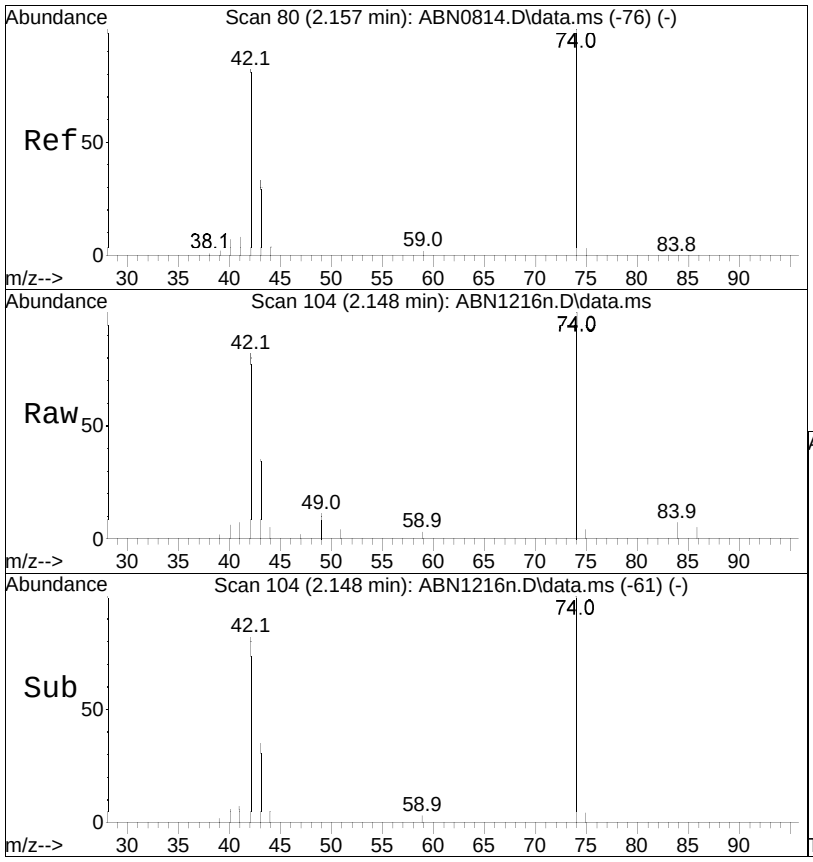
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\241216NRVT\
Data File : ABN1216n.D
Acq On : 16 Dec 2024 11:14 pm
Operator : SV107:ljg
Sample : WG2008657-3,32,,ABN RVT CCV Lot # 11043
Misc : WG2008657,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 16 23:42:32 2024
Quant Method : I:\8270\SV107\241216NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 23:44:08 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

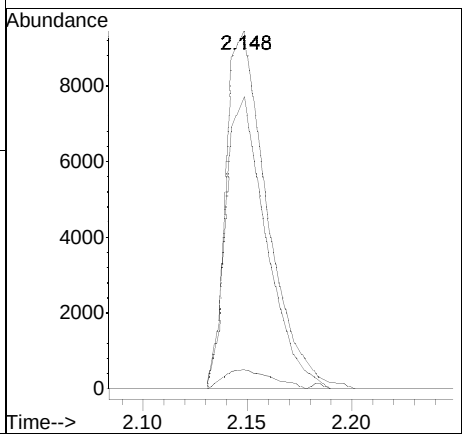


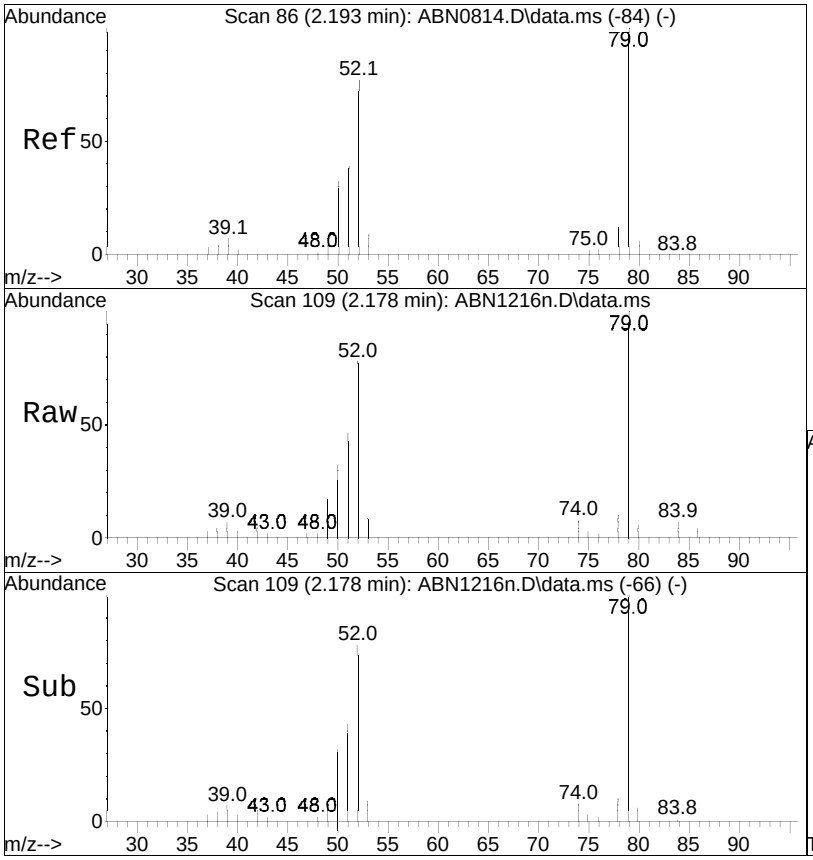


#2
n-Nitrosodimethylamine
Concen: 5.54 ug/ml
RT: 2.148 min Scan# 104
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion: 74 Resp: 12785

Ion	Ratio	Lower	Upper
74	100		
42	80.8	100.0	150.0#
44	6.7	6.7	10.1#

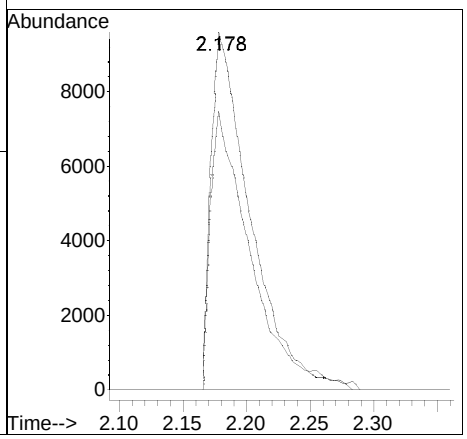


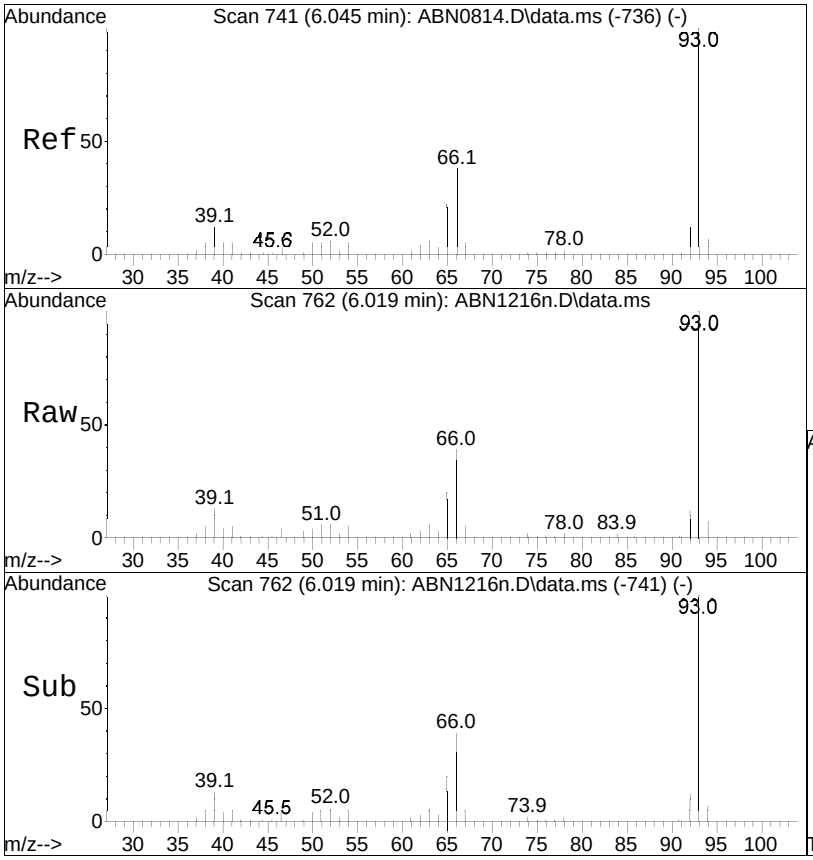


#3
Pyridine
Concen: 5.87 ug/ml
RT: 2.178 min Scan# 109
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion: 79 Resp: 20734

Ion	Ratio	Lower	Upper
79	100		
52	78.1	93.1	139.7#

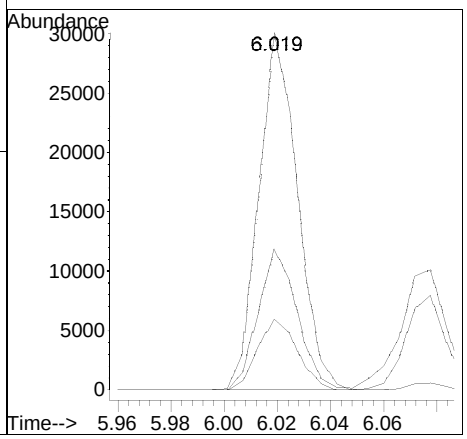


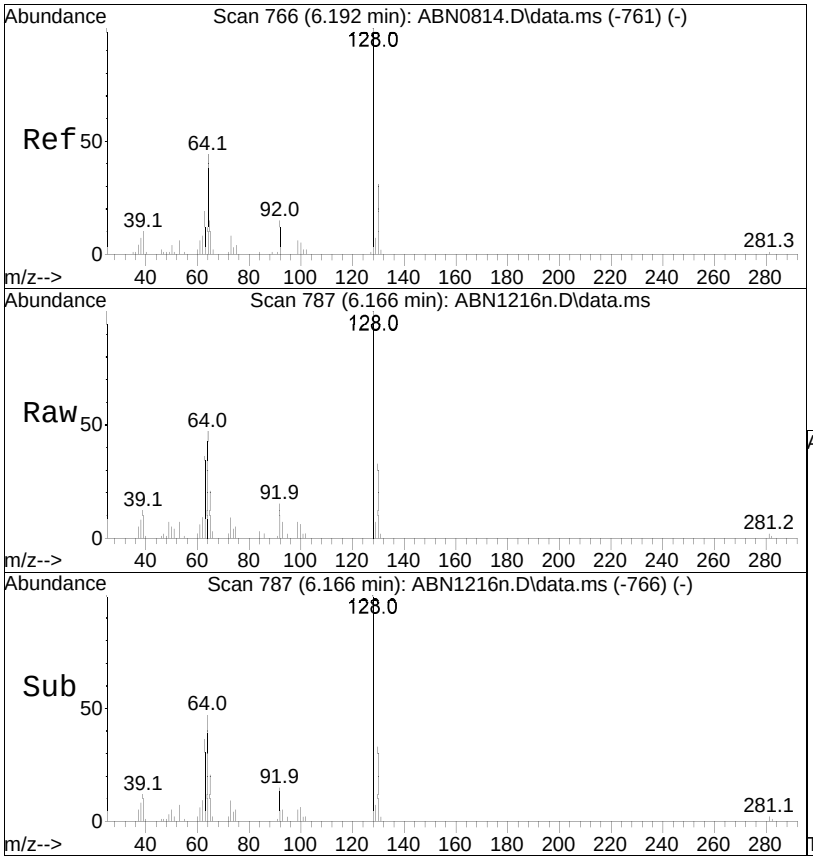


#5
Aniline
Concen: 5.26 ug/ml
RT: 6.019 min Scan# 762
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion: 93 Resp: 30188

Ion	Ratio	Lower	Upper
93	100		
66	40.2	32.6	49.0
65	20.6	17.6	26.4

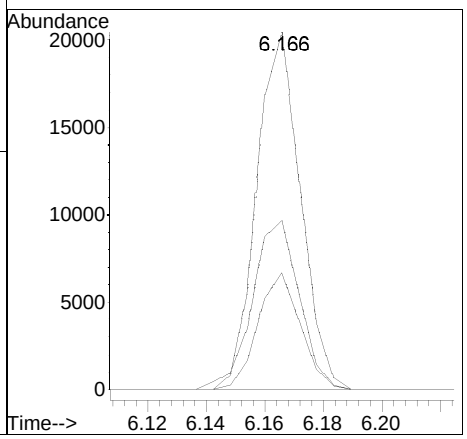


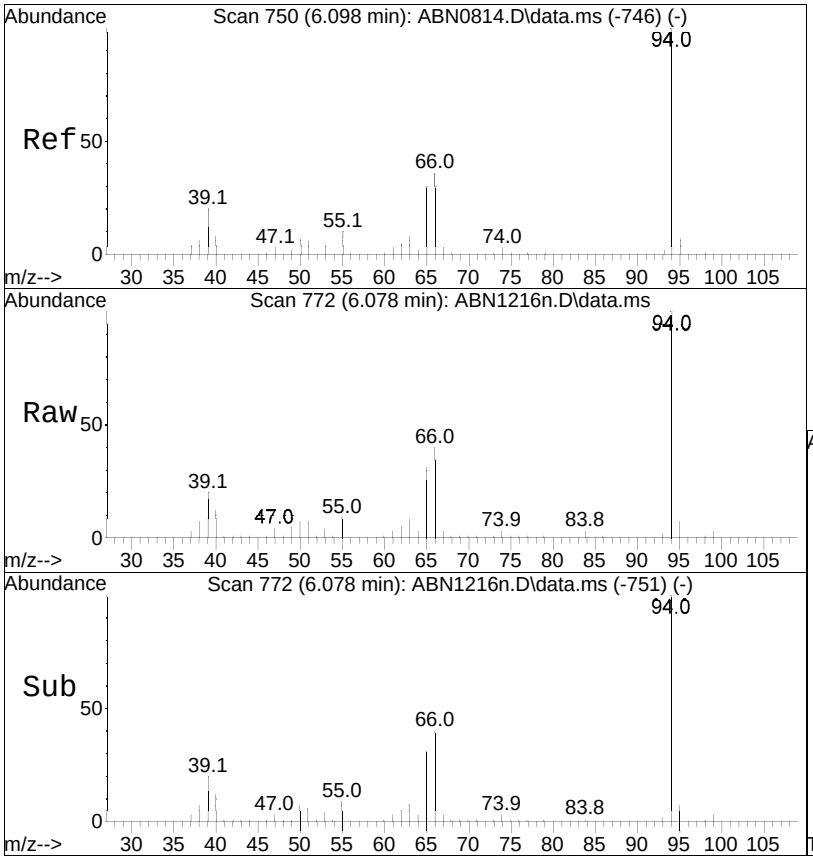


#6
2-Chlorophenol
Concen: 5.03 ug/ml
RT: 6.166 min Scan# 787
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:128 Resp: 21174

Ion	Ratio	Lower	Upper
128	100		
64	50.8	45.1	67.7
130	31.9	26.2	39.4

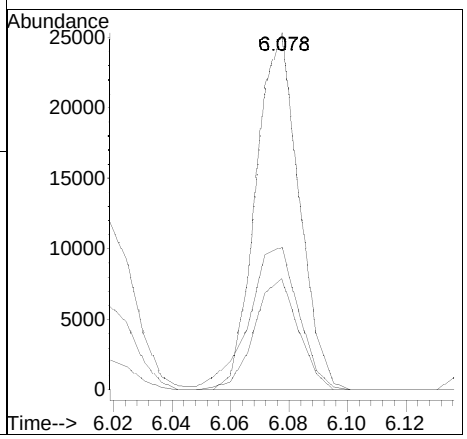


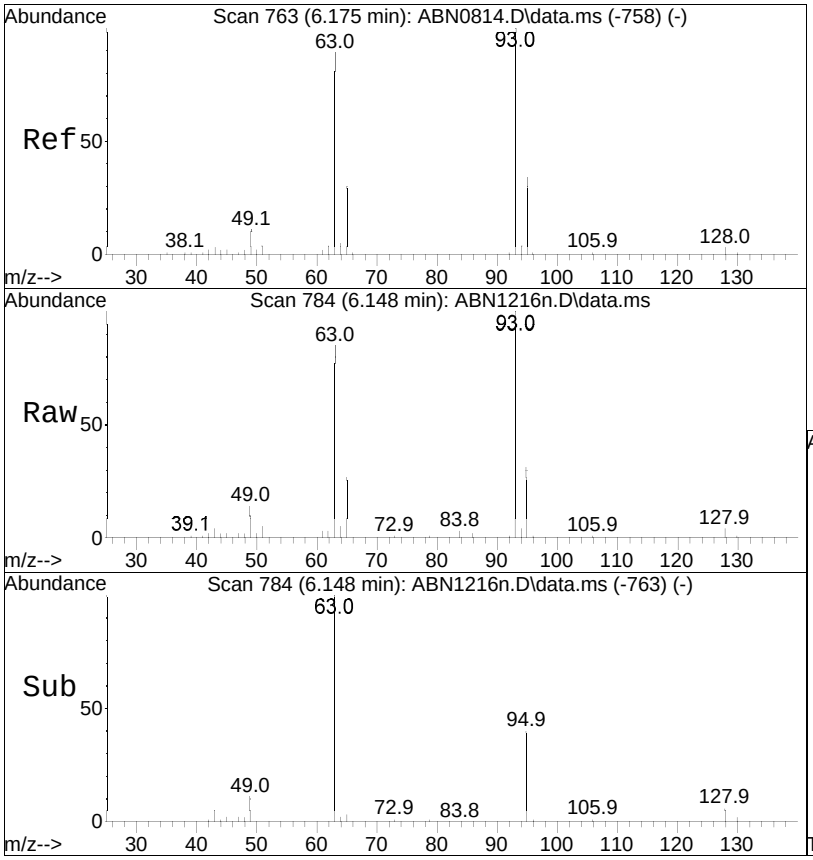


#8
Phenol
Concen: 5.07 ug/ml
RT: 6.078 min Scan# 772
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion: 94 Resp: 25833

Ion	Ratio	Lower	Upper
94	100		
65	32.0	26.0	39.0
66	46.4	33.8	50.8

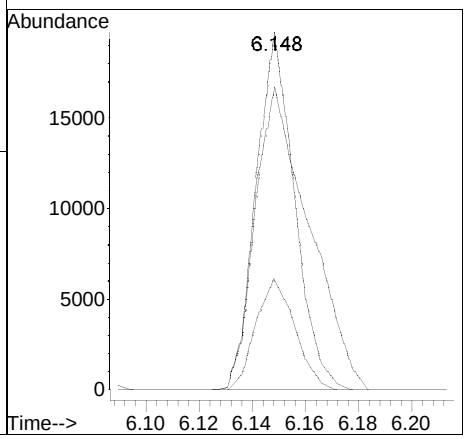


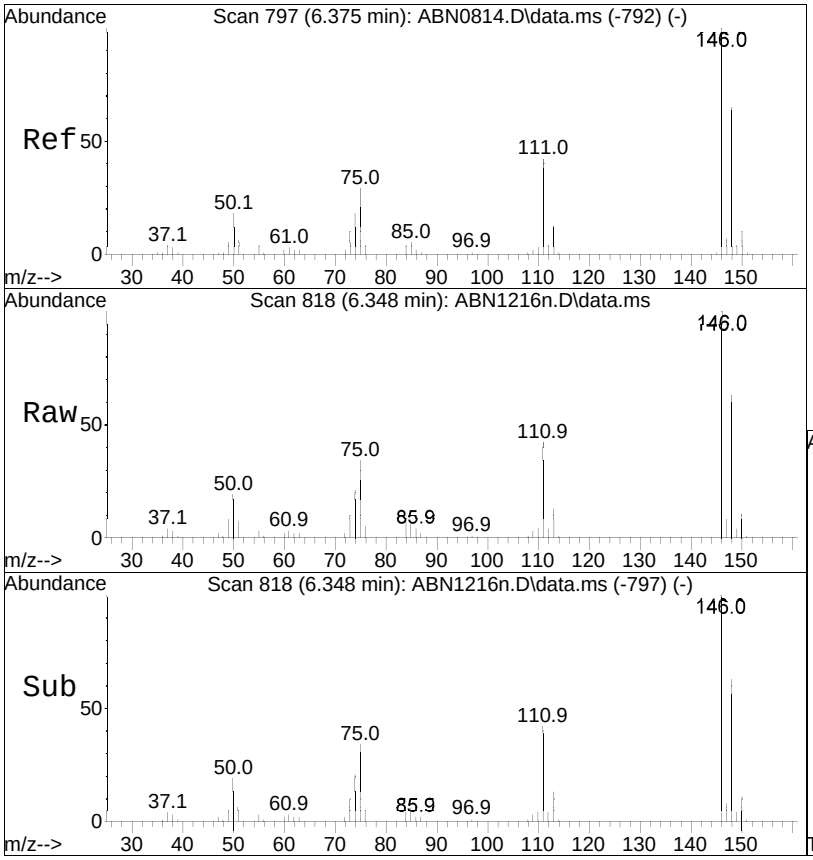


#9
Bis(2-chloroethyl)ether
Concen: 4.86 ug/ml
RT: 6.148 min Scan# 784
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion: 93 Resp: 19701

Ion	Ratio	Lower	Upper
93	100		
63	118.2	74.6	111.8#
95	31.6	25.9	38.9

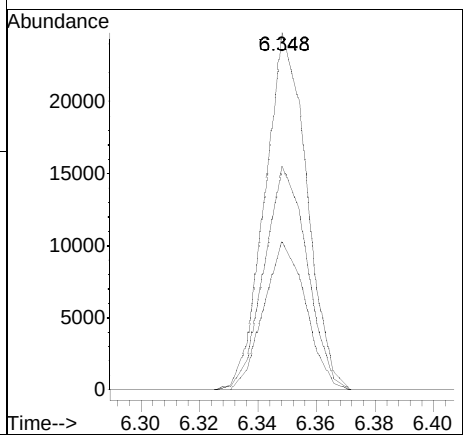


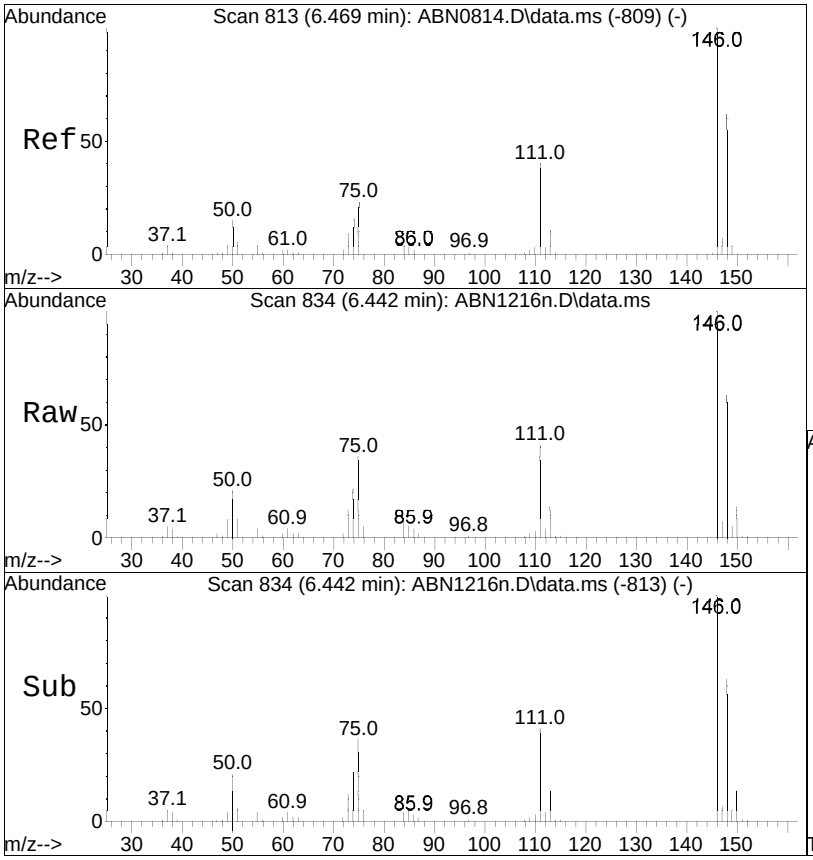


#10
1,3-Dichlorobenzene
Concen: 4.76 ug/ml
RT: 6.348 min Scan# 818
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:146 Resp: 24552

Ion	Ratio	Lower	Upper
146	100		
111	41.6	34.3	51.5
148	63.9	50.8	76.2

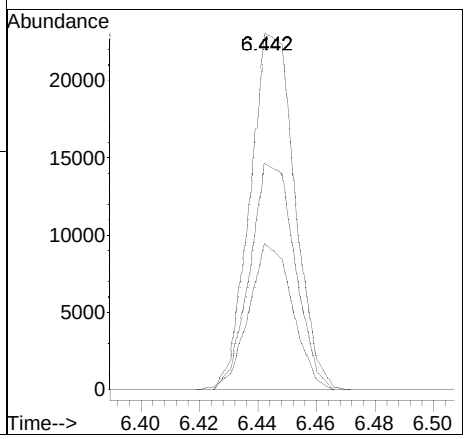


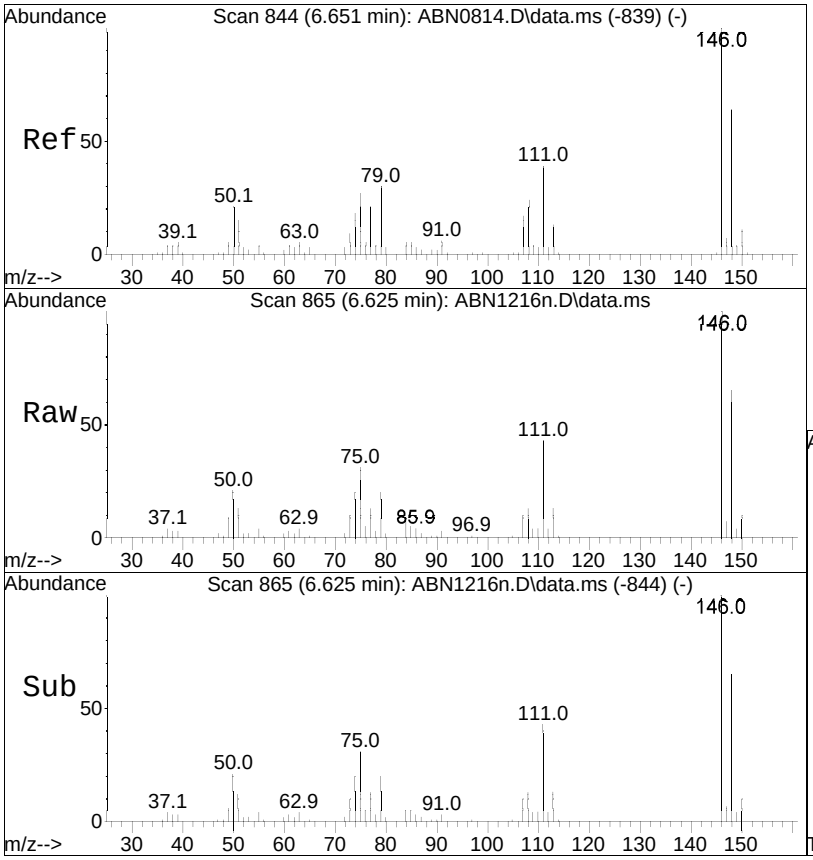


#11
1,4-Dichlorobenzene
Concen: 4.70 ug/ml
RT: 6.442 min Scan# 834
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:146 Resp: 24414

Ion	Ratio	Lower	Upper
146	100		
148	63.6	50.7	76.1
111	40.3	33.4	50.0

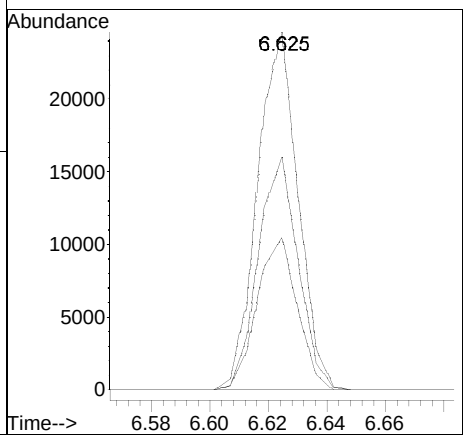


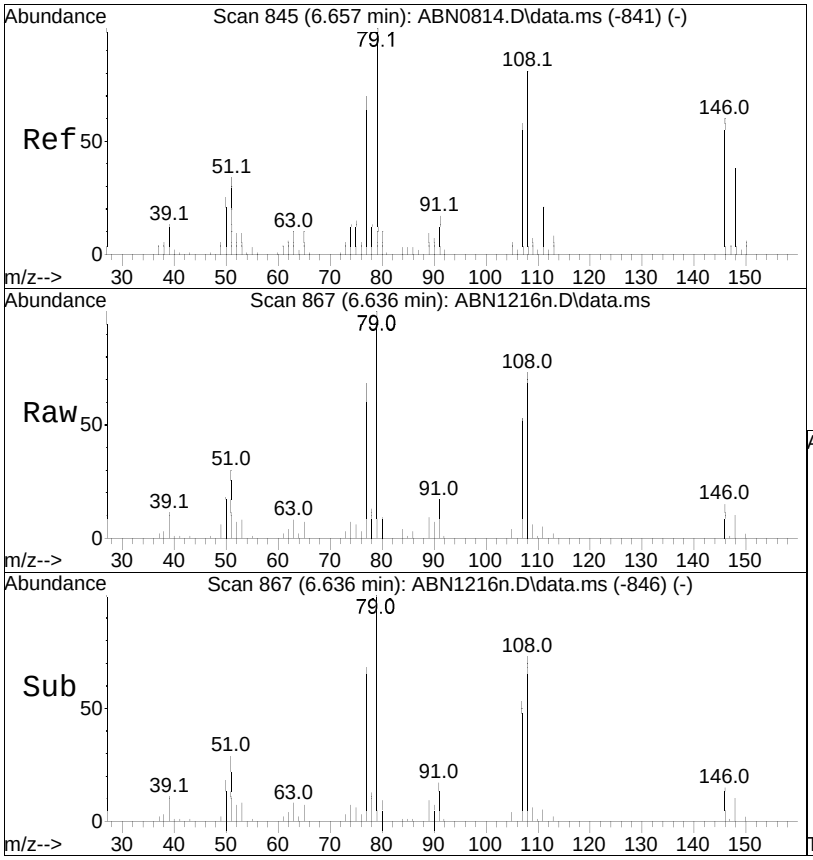


#12
1,2-Dichlorobenzene
Concen: 4.63 ug/ml
RT: 6.625 min Scan# 865
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:146 Resp: 23490

Ion	Ratio	Lower	Upper
146	100		
111	42.5	34.6	52.0
148	64.1	50.2	75.4

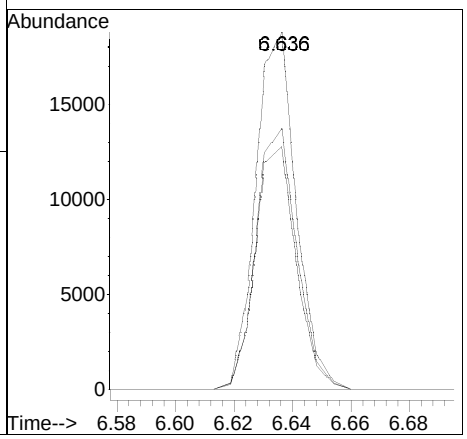


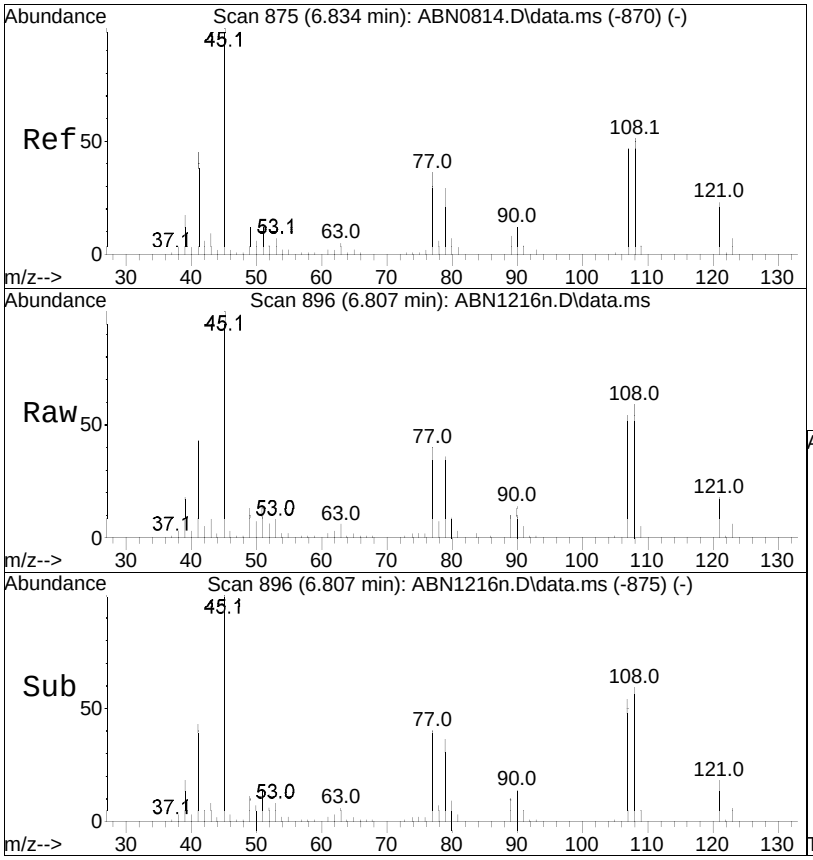


#13
Benzyl alcohol
Concen: 5.47 ug/ml
RT: 6.636 min Scan# 867
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion: 79 Resp: 17946

Ion	Ratio	Lower	Upper
79	100		
77	69.0	54.9	82.3
108	74.2	63.1	94.7

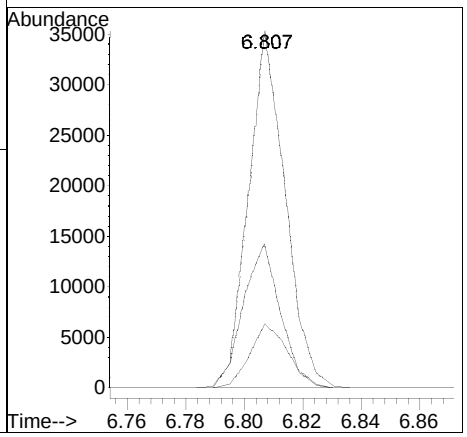


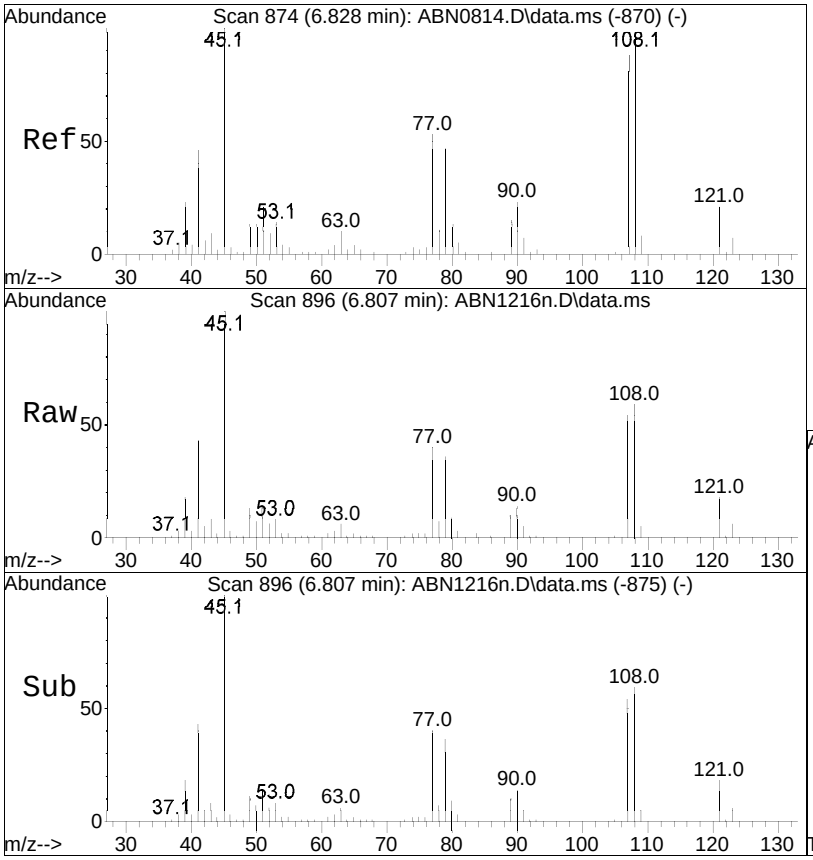


#14
Bis(2-chloroisopropyl)ether
Concen: 5.80 ug/ml
RT: 6.807 min Scan# 896
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion: 45 Resp: 30487

Ion	Ratio	Lower	Upper
45	100		
121	18.7	9.8	14.6#
77	41.1	6.1	9.1#

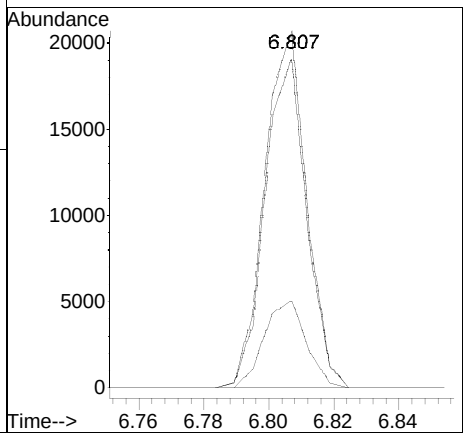


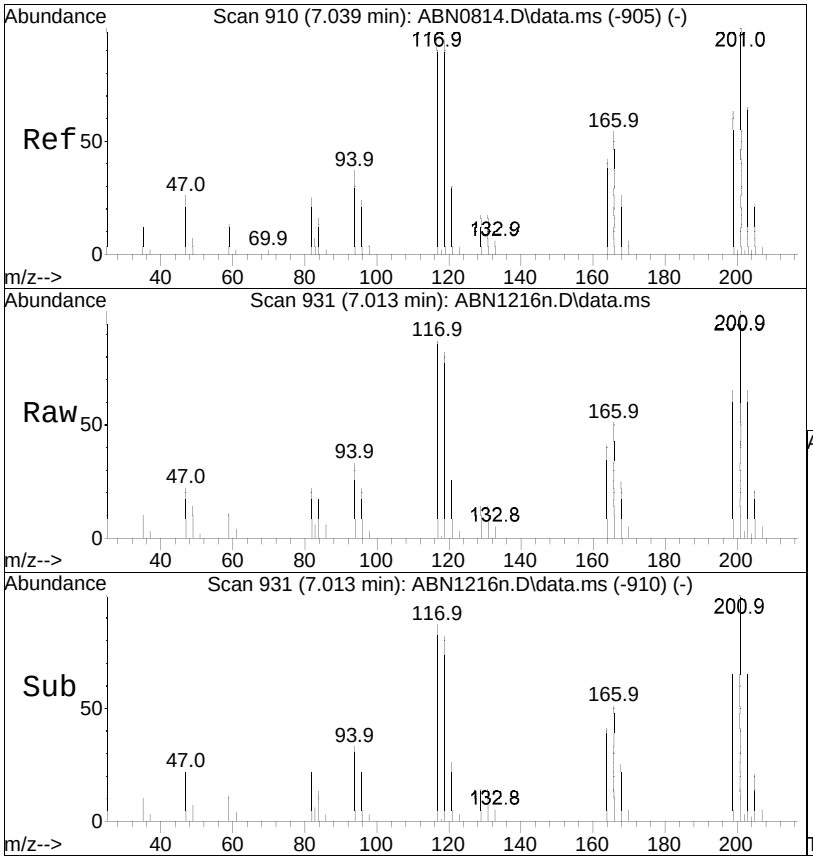


#15
2-Methylphenol
Concen: 5.01 ug/ml
RT: 6.807 min Scan# 896
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:108 Resp: 18337

Ion	Ratio	Lower	Upper
108	100		
107	91.8	70.7	106.1
90	24.6	18.7	28.1

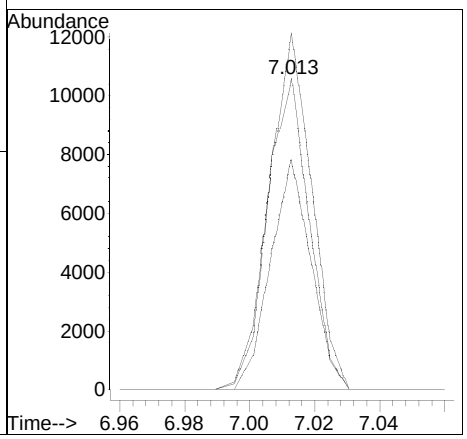


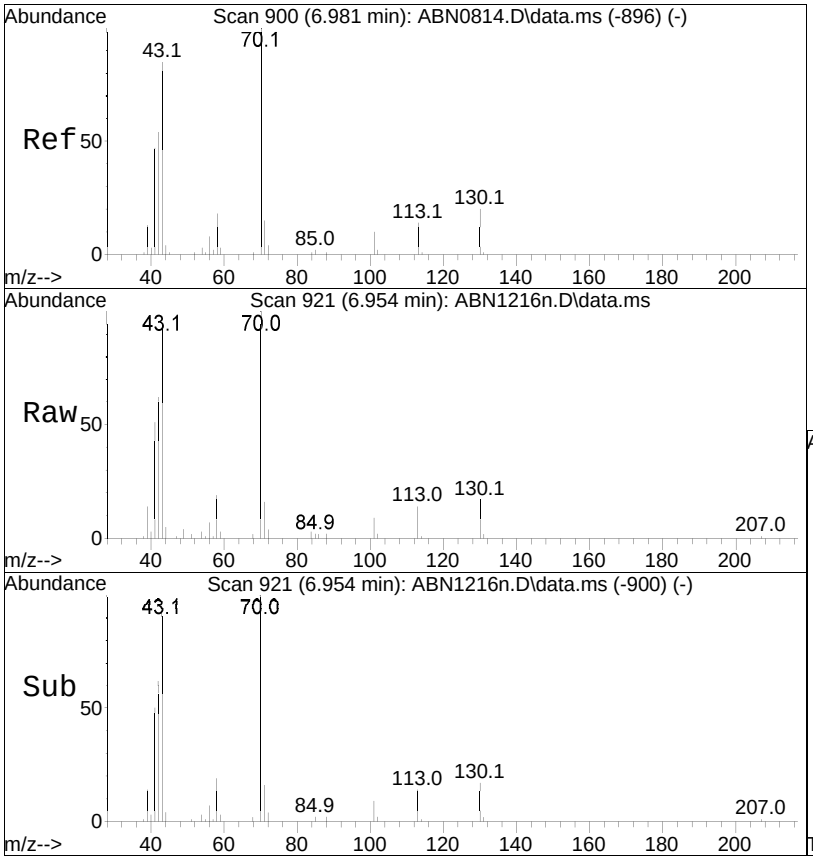


#16
Hexachloroethane
Concen: 5.26 ug/ml
RT: 7.013 min Scan# 931
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:117 Resp: 9622

Ion	Ratio	Lower	Upper
117	100		
201	113.1	58.6	87.8#
199	70.5	36.9	55.3#

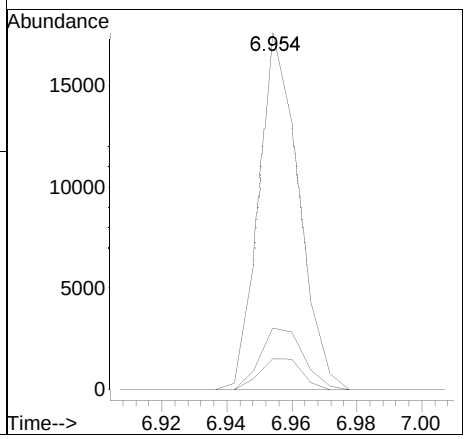


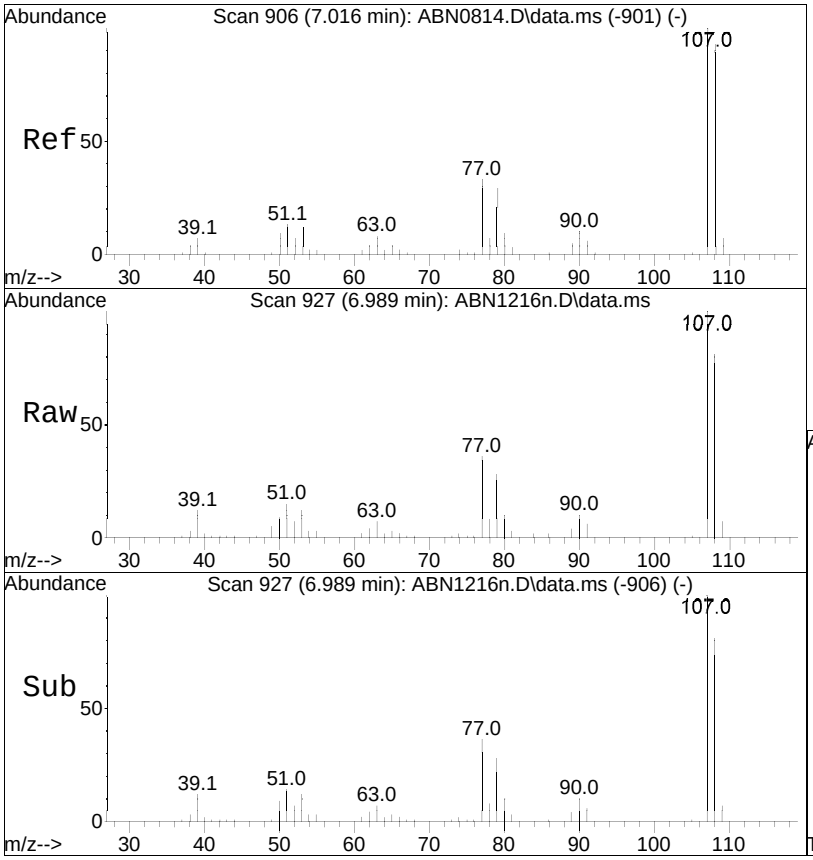


#17
n-Nitrosodi-n-propylamine
Concen: 5.33 ug/ml
RT: 6.954 min Scan# 921
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion: 70 Resp: 14934

Ion	Ratio	Lower	Upper
70	100		
130	18.7	18.2	27.4
101	9.2	7.8	11.8

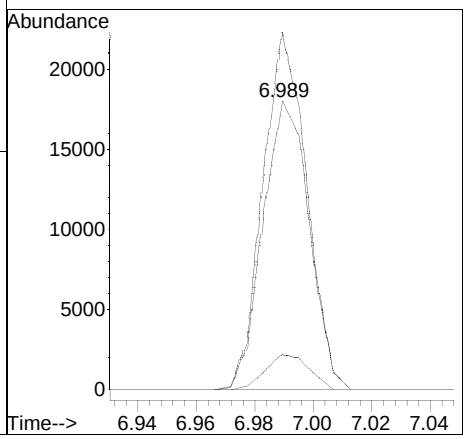


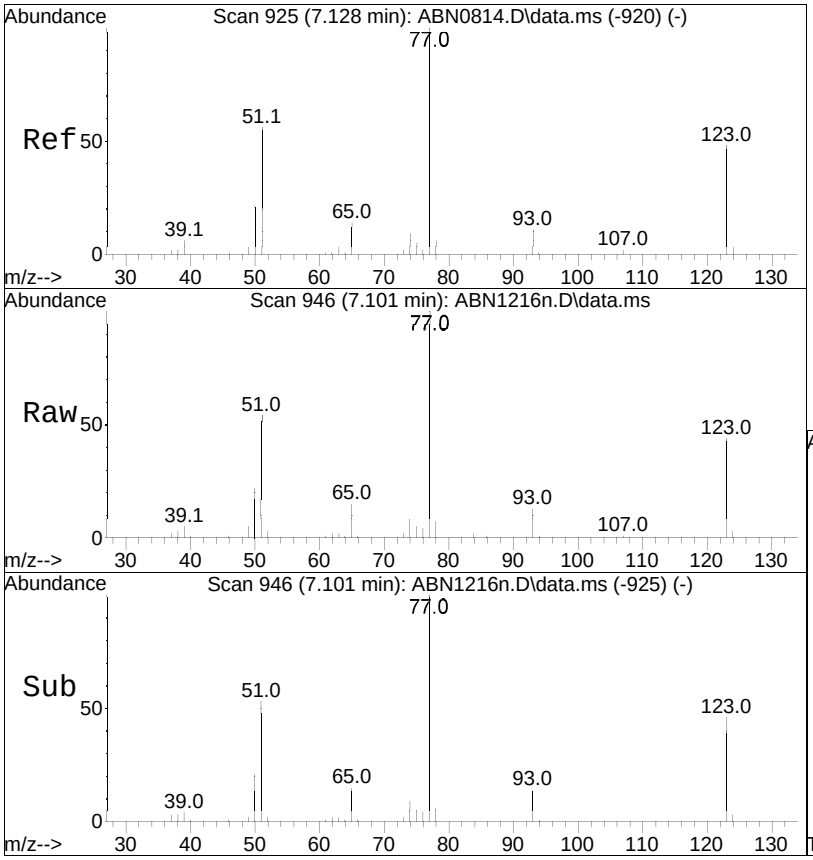


#18
3-Methylphenol/4-Methylphenol
Concen: 4.86 ug/ml
RT: 6.989 min Scan# 927
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:108 Resp: 19592

Ion	Ratio	Lower	Upper
108	100		
107	117.2	88.6	132.8
90	11.7	8.8	13.2

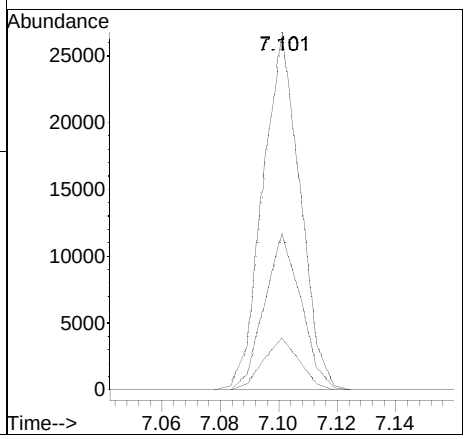


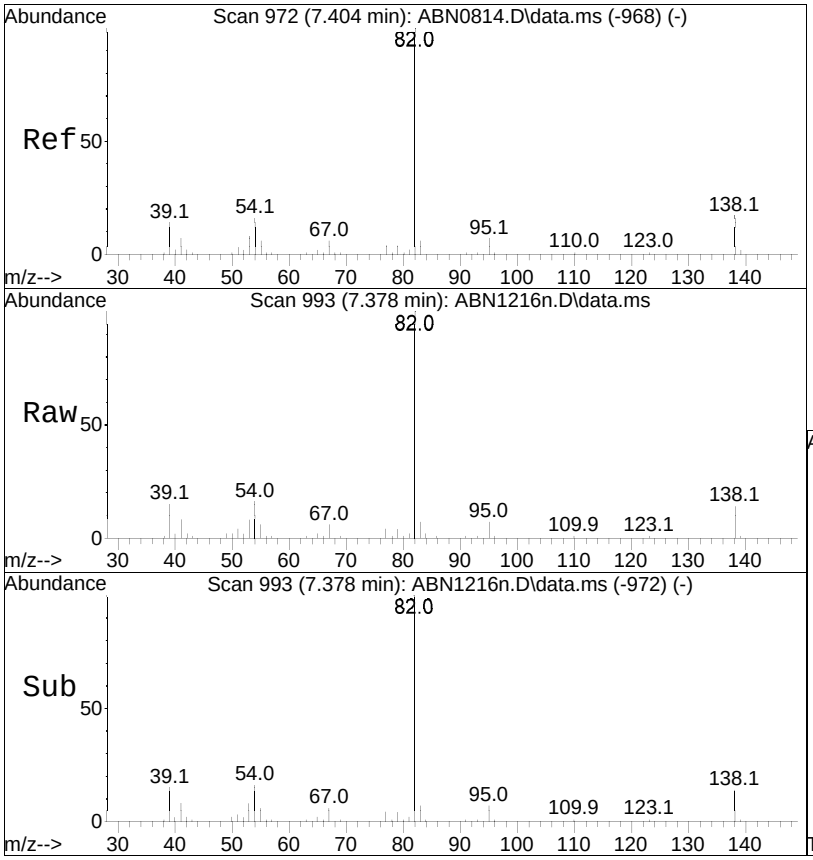


#20
Nitrobenzene
Concen: 5.50 ug/ml
RT: 7.101 min Scan# 946
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion: 77 Resp: 23454

Ion	Ratio	Lower	Upper
77	100		
123	43.1	36.3	54.5
65	14.2	11.6	17.4

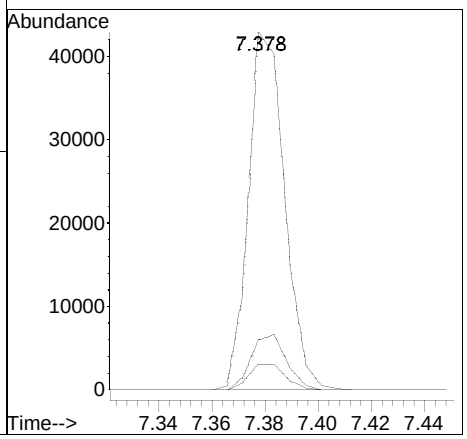


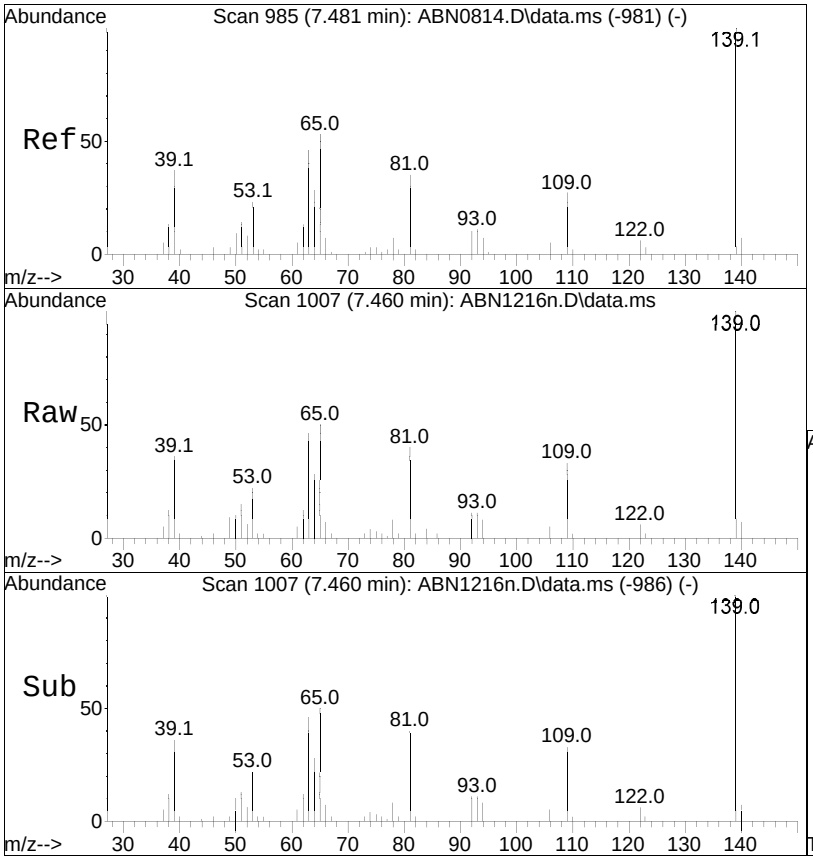


#21
Isophorone
Concen: 5.26 ug/ml
RT: 7.378 min Scan# 993
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion: 82 Resp: 40106

Ion	Ratio	Lower	Upper
82	100		
138	15.2	14.7	22.1
95	7.4	5.2	7.8

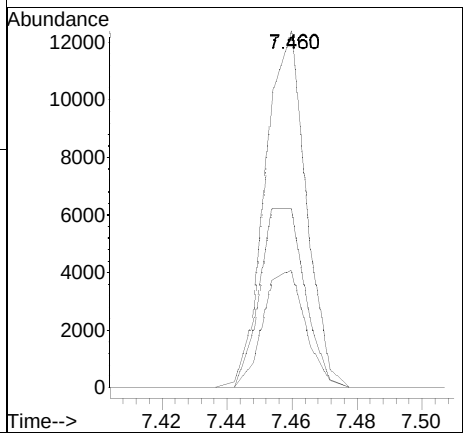


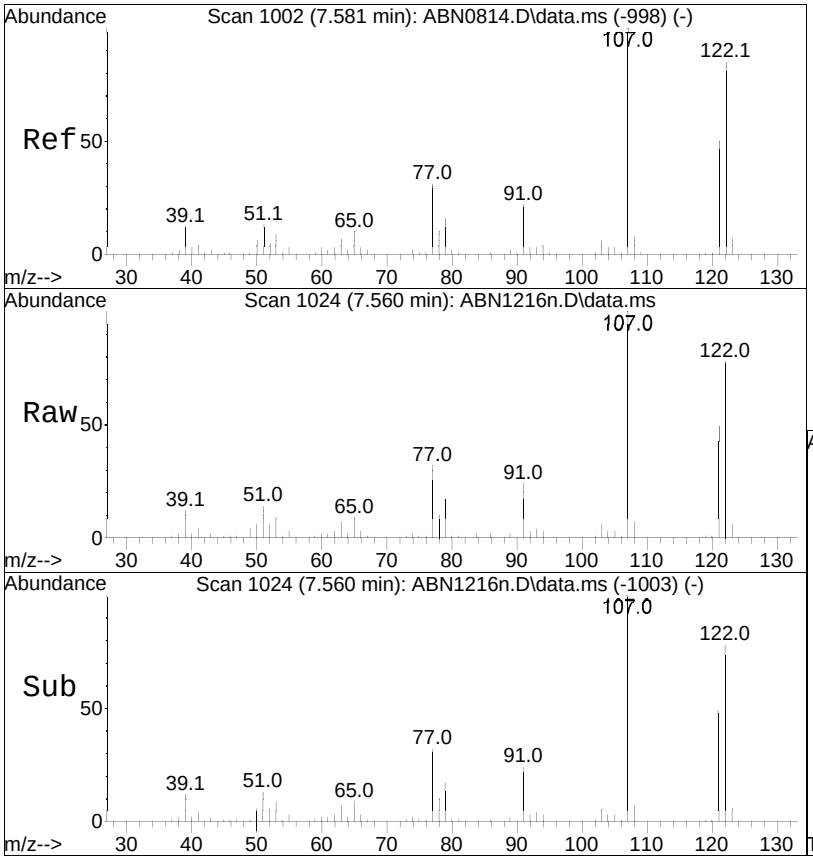


#22
2-Nitrophenol
Concen: 4.98 ug/ml
RT: 7.460 min Scan# 1007
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:139 Resp: 10798

Ion	Ratio	Lower	Upper
139	100		
109	34.0	19.4	29.0#
65	55.1	46.1	69.1

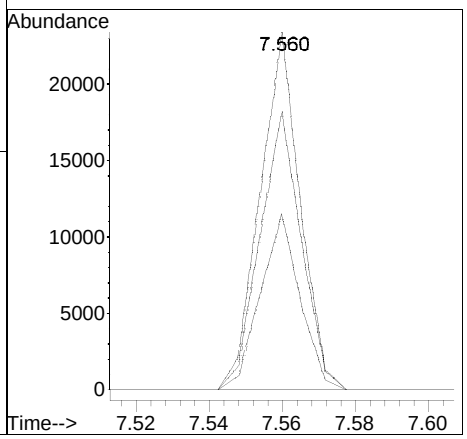


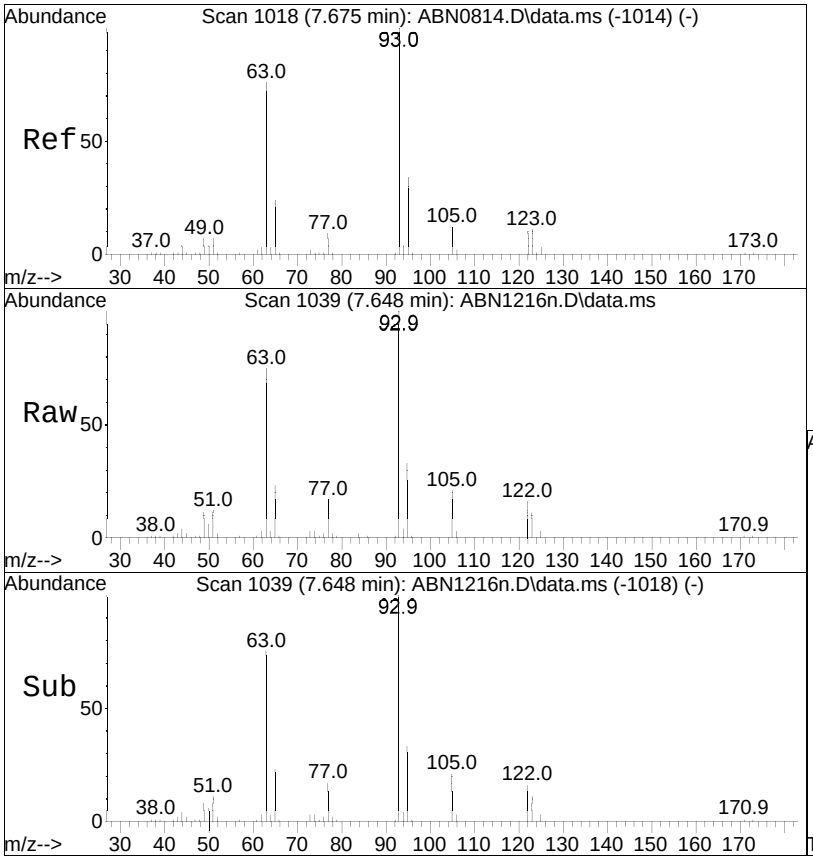


#23
2,4-Dimethylphenol
Concen: 5.02 ug/ml
RT: 7.560 min Scan# 1024
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:107 Resp: 17648

Ion	Ratio	Lower	Upper
107	100		
121	48.7	40.0	60.0
122	79.9	70.2	105.4

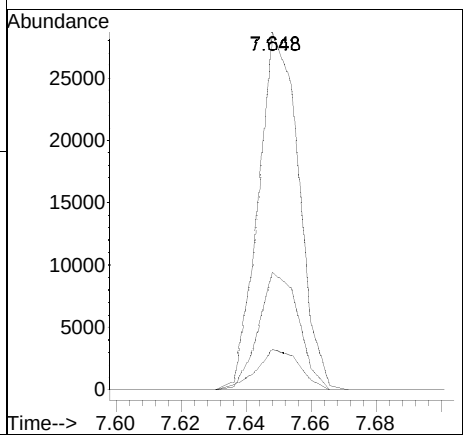


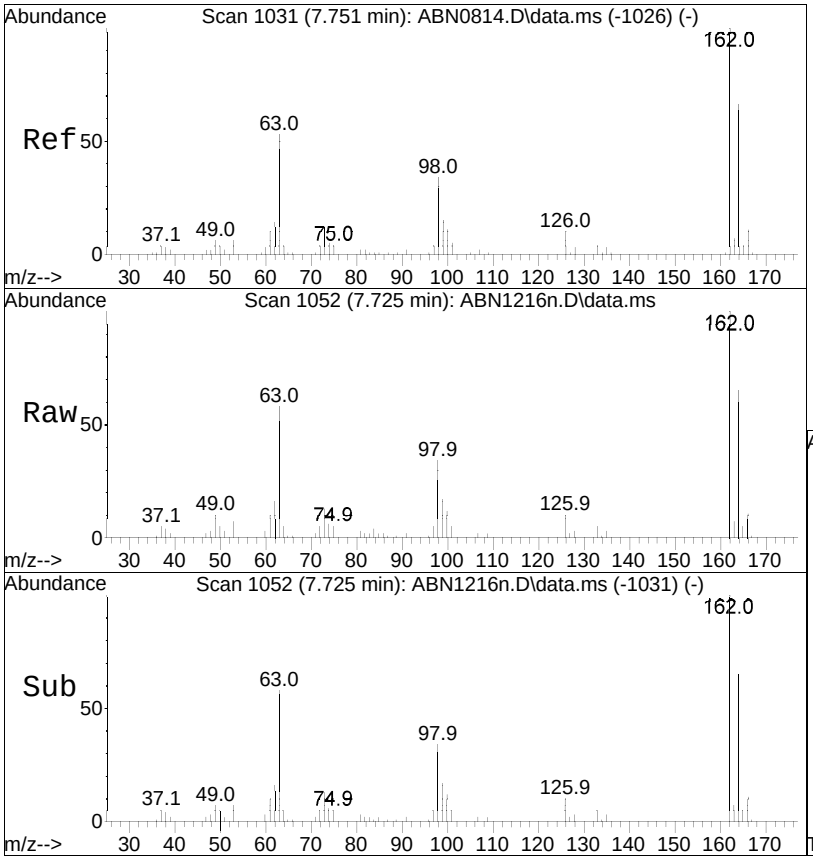


#24
Bis(2-chloroethoxy)methane
Concen: 4.76 ug/ml
RT: 7.648 min Scan# 1039
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion: 93 Resp: 24540

Ion	Ratio	Lower	Upper
93	100		
95	32.8	25.8	38.8
123	12.2	10.1	15.1

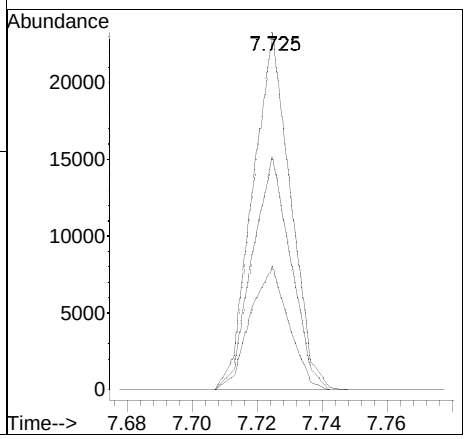


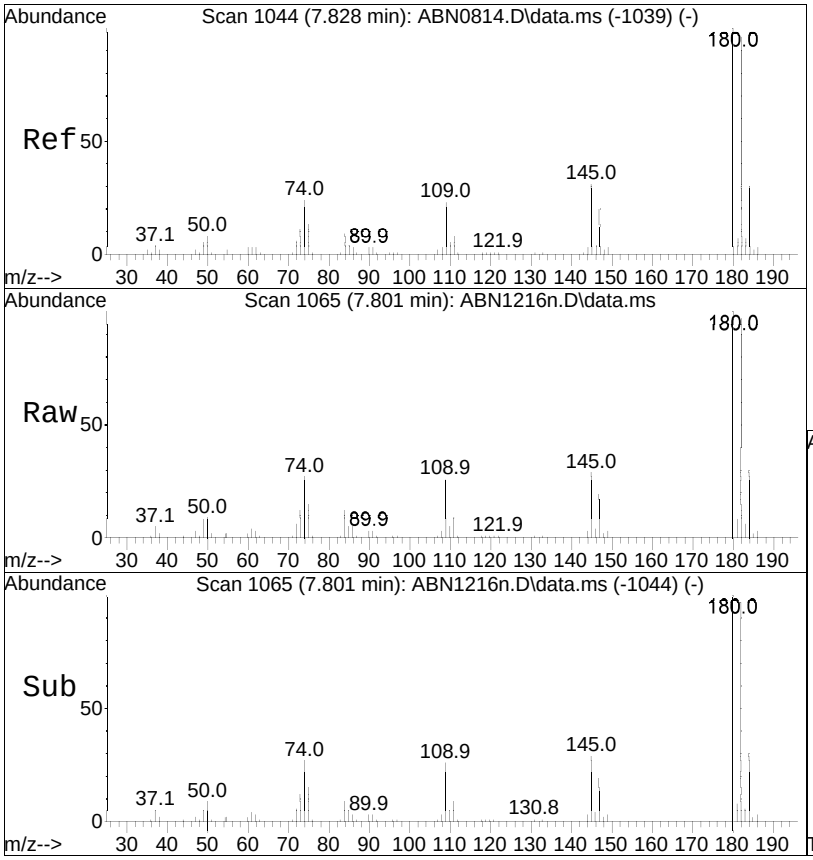


#25
2,4-Dichlorophenol
Concen: 4.86 ug/ml
RT: 7.725 min Scan# 1052
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:162 Resp: 18653

Ion	Ratio	Lower	Upper
162	100		
164	66.3	51.0	76.4
98	35.3	32.2	48.2

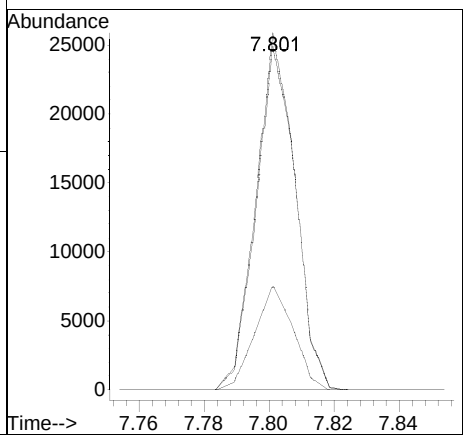


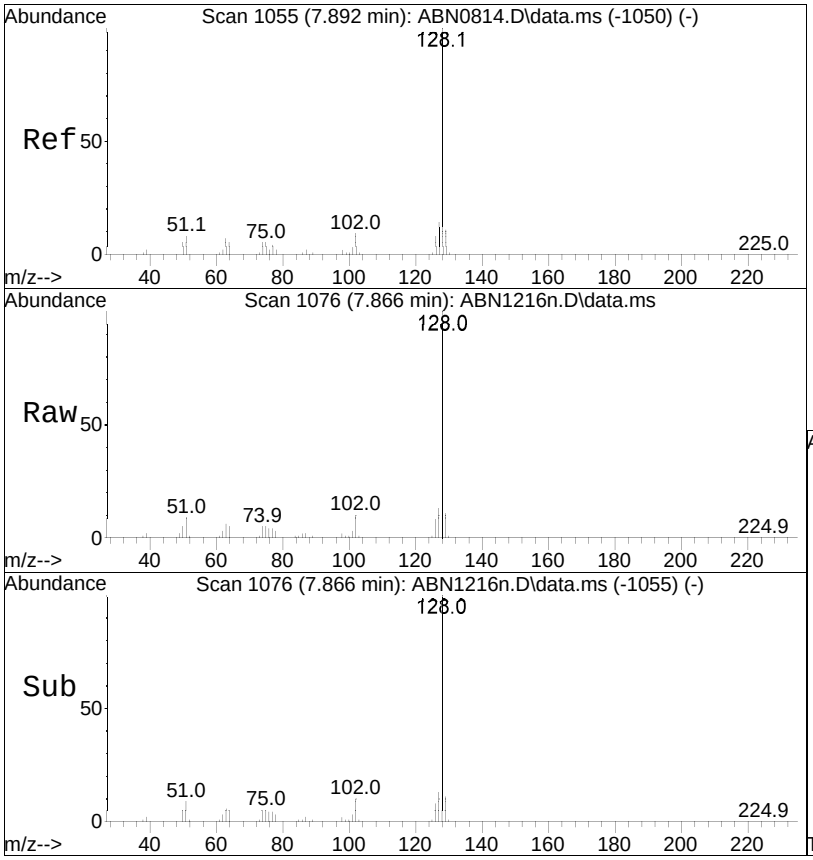


#26
1,2,4-Trichlorobenzene
Concen: 4.71 ug/ml
RT: 7.801 min Scan# 1065
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:180 Resp: 21516

Ion	Ratio	Lower	Upper
180	100		
182	97.3	76.0	114.0
145	28.9	25.7	38.5

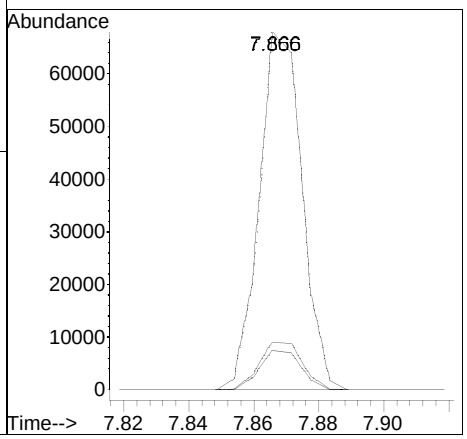


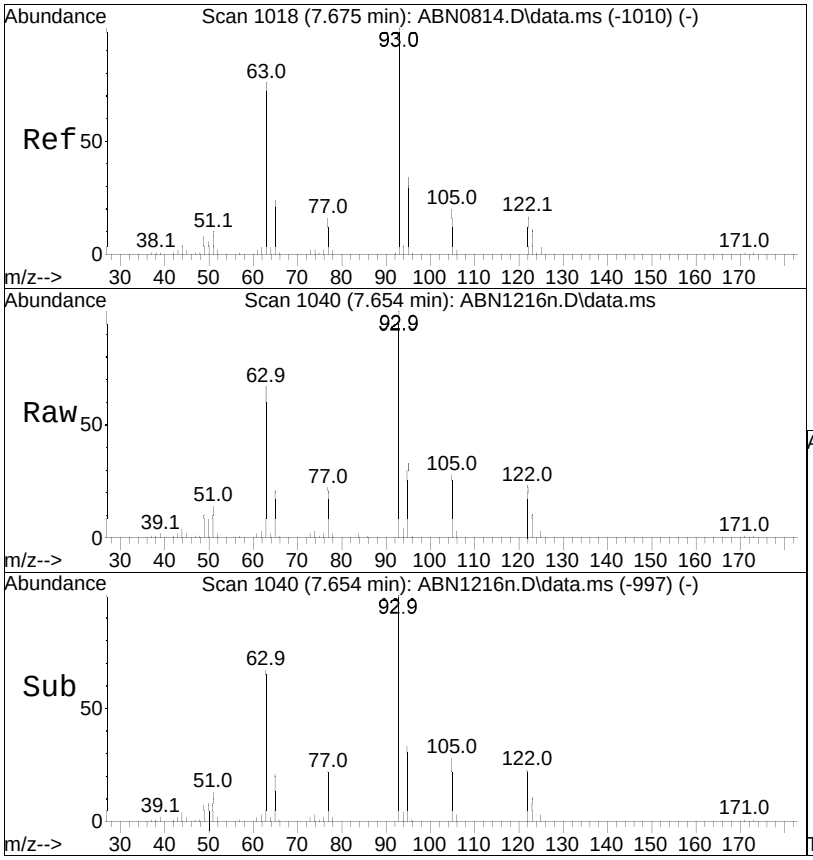


#36
Naphthalene
Concen: 4.73 ug/ml
RT: 7.866 min Scan# 1076
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:128 Resp: 61659

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.7	13.1
127	13.7	10.3	15.5

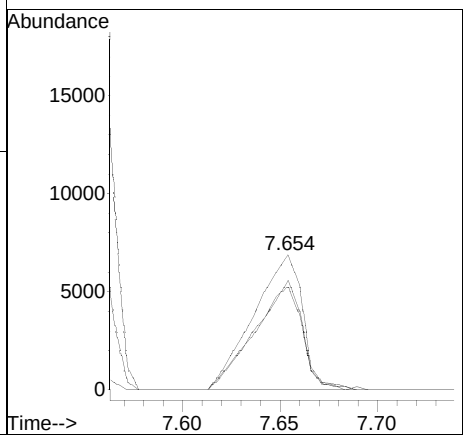


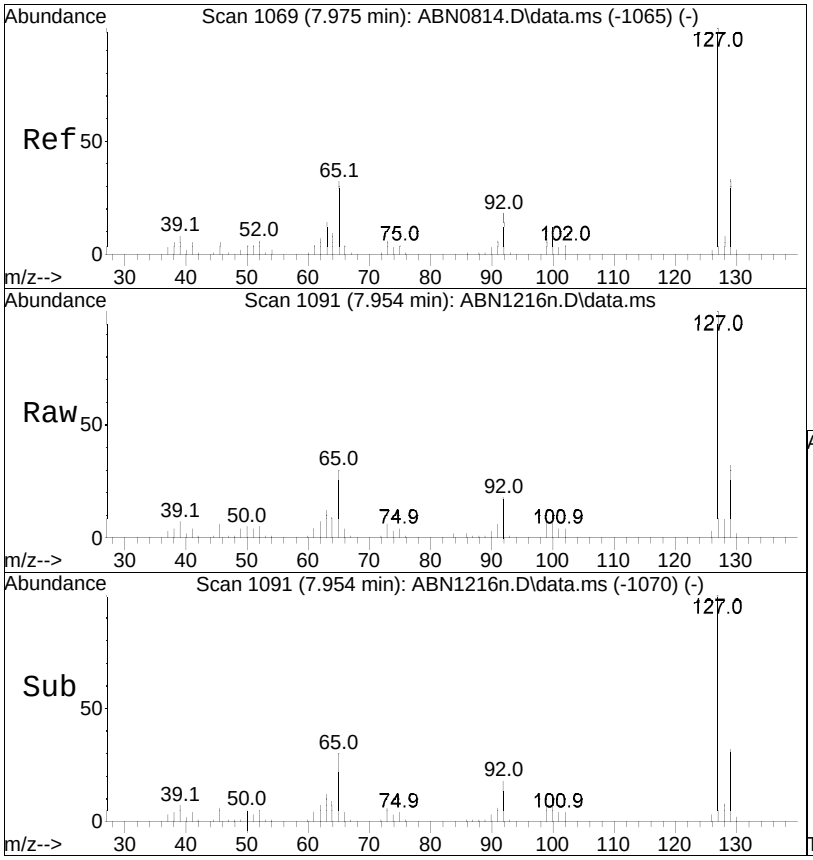


#37
Benzoic Acid
Concen: 5.33 ug/ml
RT: 7.654 min Scan# 1040
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:105 Resp: 12087

Ion	Ratio	Lower	Upper
105	100		
122	77.6	59.9	89.9
77	76.3	60.1	90.1

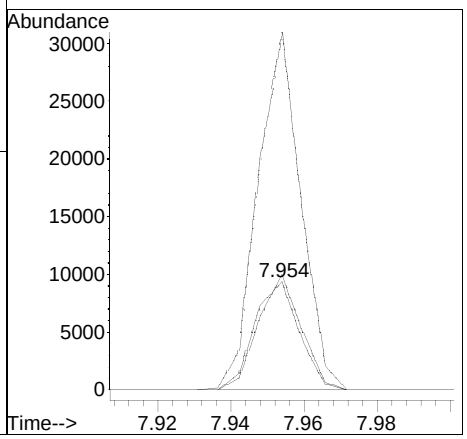


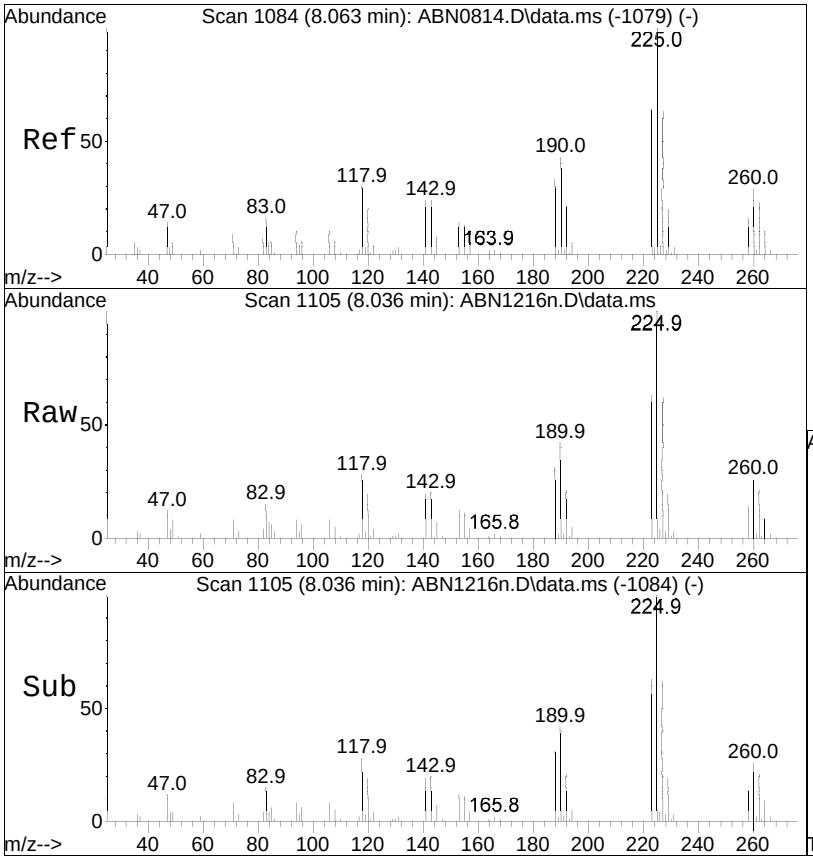


#38
4-Chloroaniline
Concen: 5.45 ug/ml
RT: 7.954 min Scan# 1091
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion: 65 Resp: 7937

Ion	Ratio	Lower	Upper
65	100		
127	315.1	237.6	356.4
129	101.4	76.3	114.5

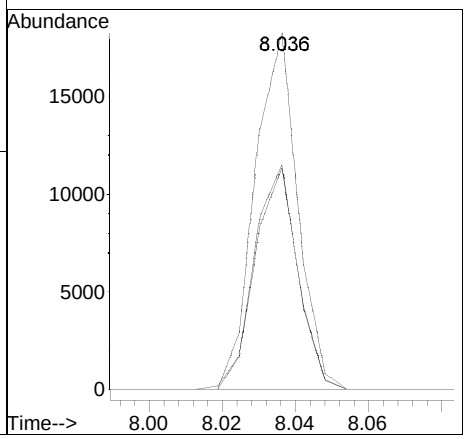


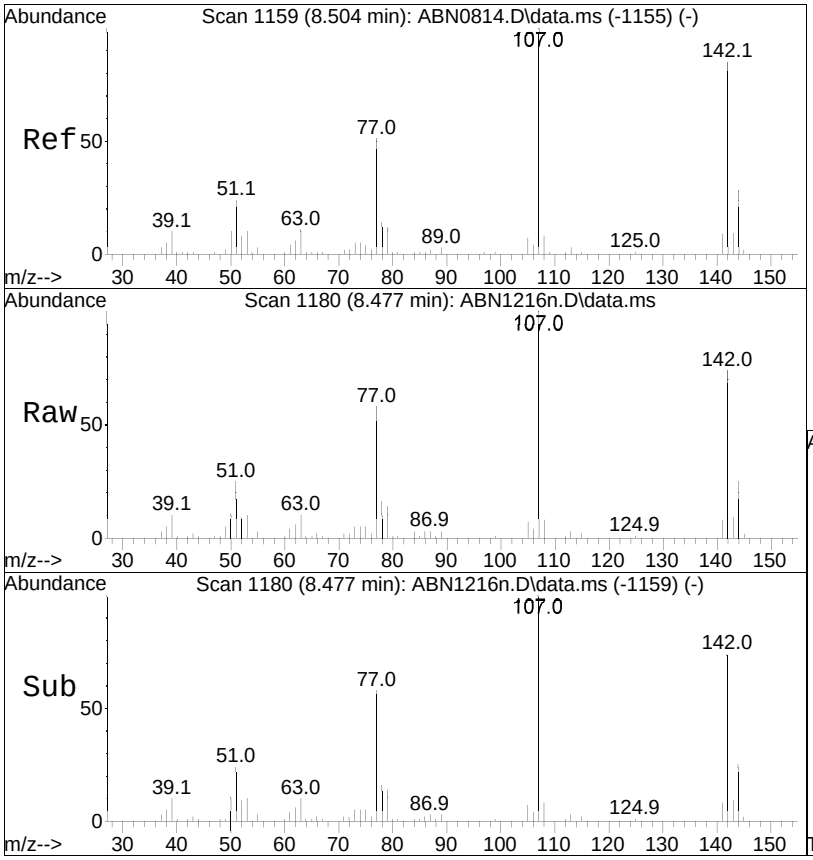


#39
Hexachlorobutadiene
Concen: 5.73 ug/ml
RT: 8.036 min Scan# 1105
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:225 Resp: 14761

Ion	Ratio	Lower	Upper
225	100		
223	64.1	50.3	75.5
227	62.4	52.2	78.2

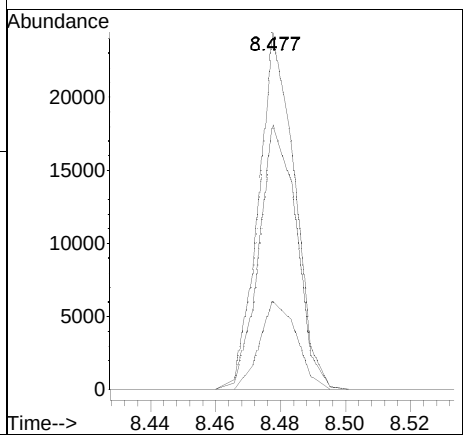


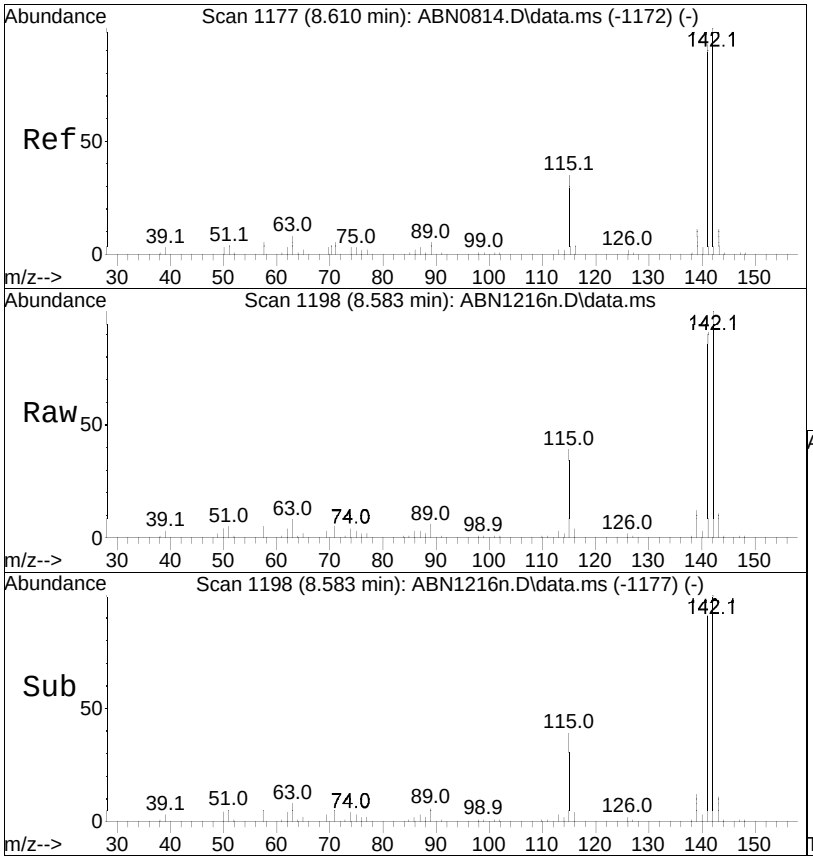


#40
p-Chloro-m-cresol
Concen: 5.74 ug/ml
RT: 8.477 min Scan# 1180
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:107 Resp: 18685

Ion	Ratio	Lower	Upper
107	100		
144	25.4	20.9	31.3
142	77.1	66.1	99.1

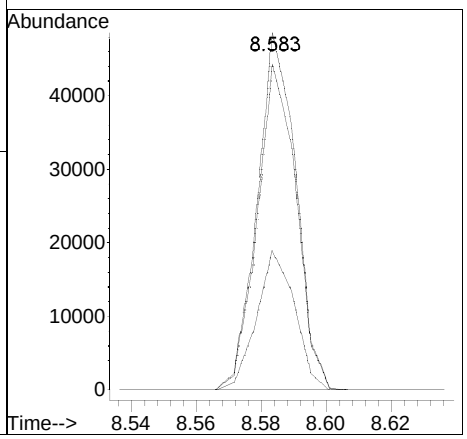


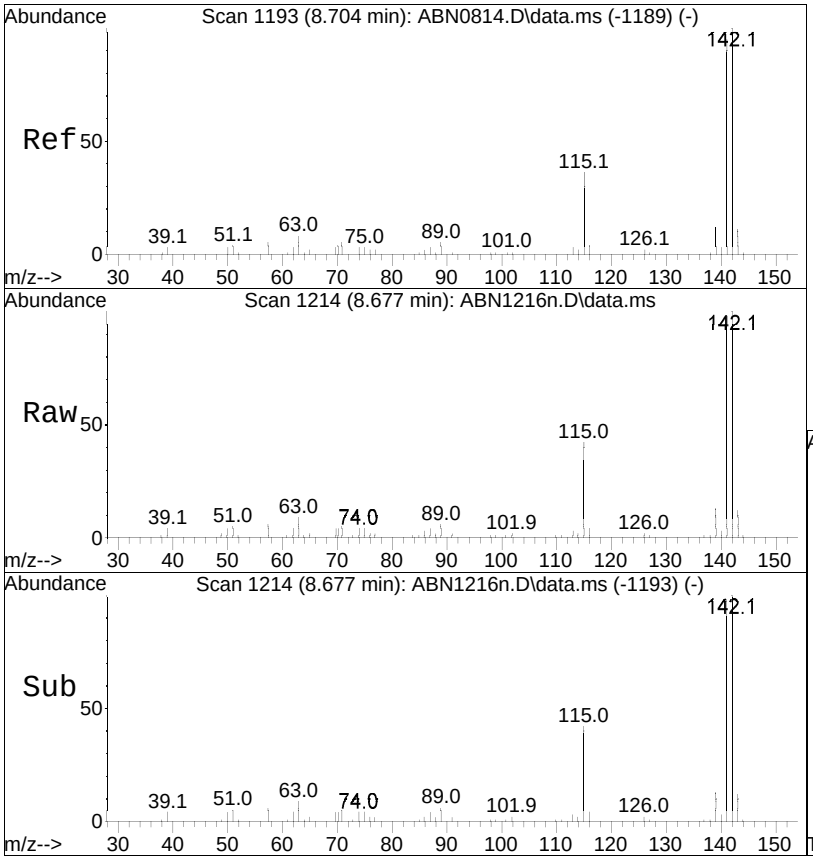


#41
2-Methylnaphthalene
Concen: 4.66 ug/ml
RT: 8.583 min Scan# 1198
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:142 Resp: 39548

Ion	Ratio	Lower	Upper
142	100		
141	91.8	69.6	104.4
115	38.5	26.6	40.0

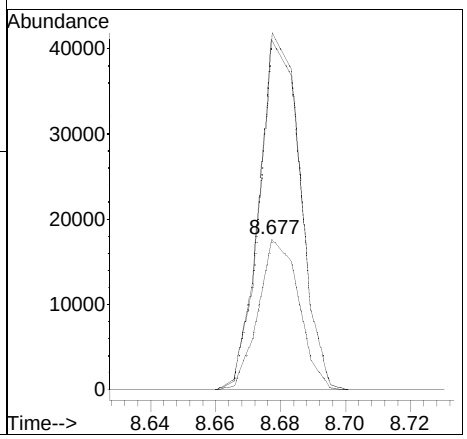


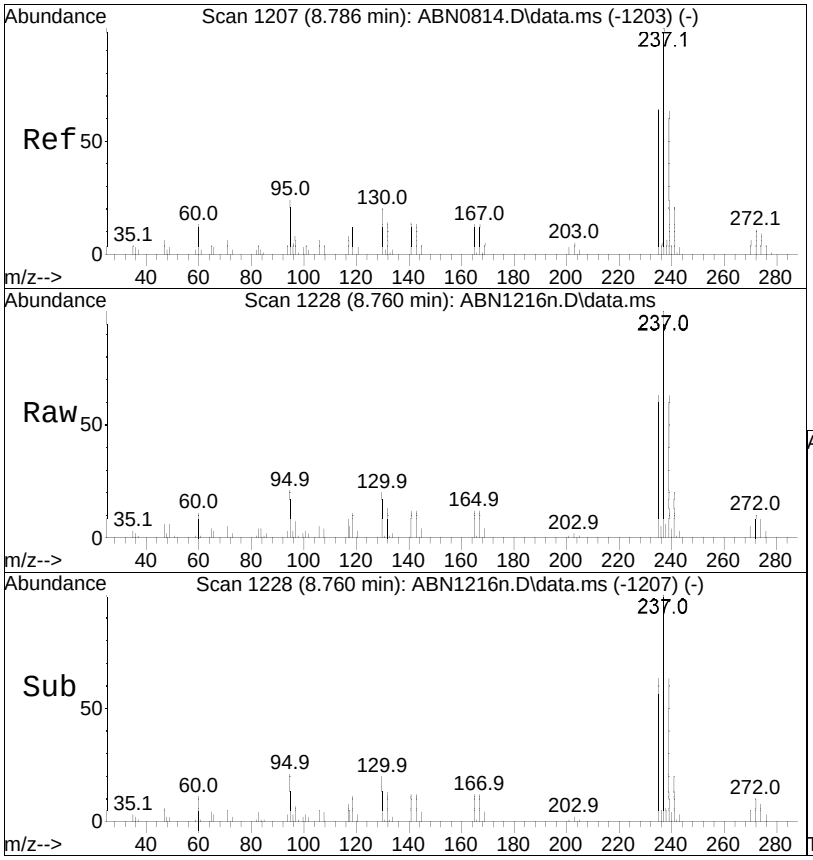


#42
1-Methylnaphthalene
Concen: 5.56 ug/ml
RT: 8.677 min Scan# 1214
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:115 Resp: 15241

Ion	Ratio	Lower	Upper
115	100		
141	234.3	207.8	311.6
142	239.5	226.8	340.2

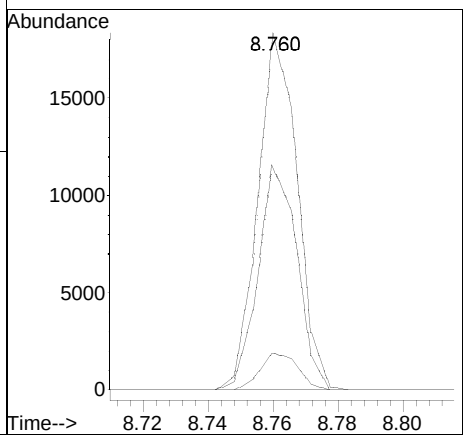


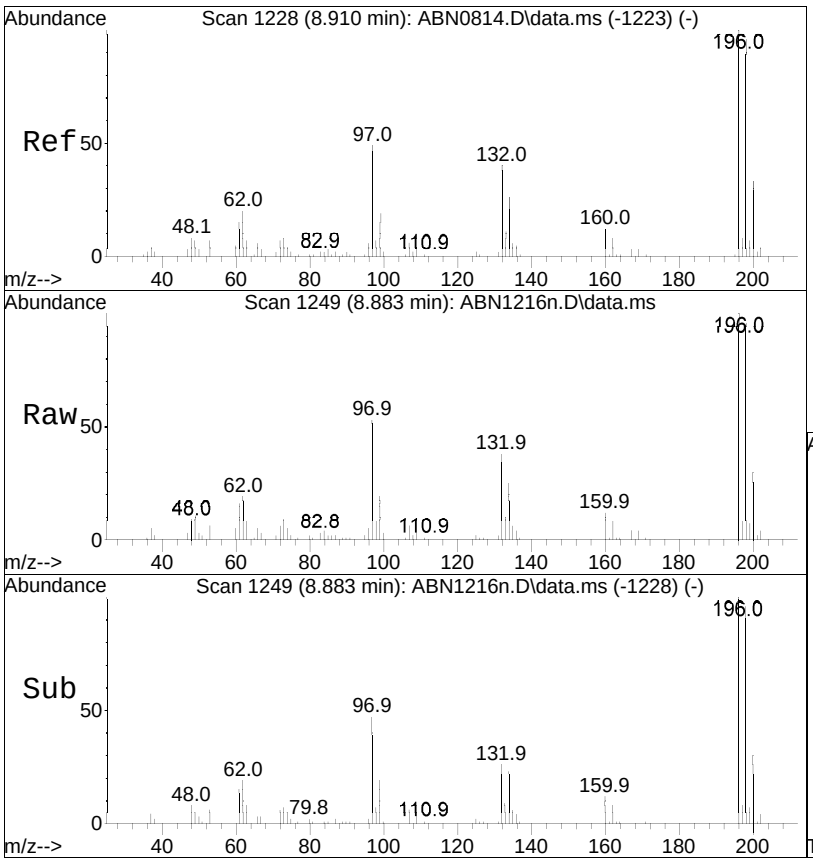


#43
Hexachlorocyclopentadiene
Concen: 6.30 ug/ml
RT: 8.760 min Scan# 1228
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:237 Resp: 15357

Ion	Ratio	Lower	Upper
237	100		
235	62.4	49.7	74.5
272	10.1	9.8	14.6

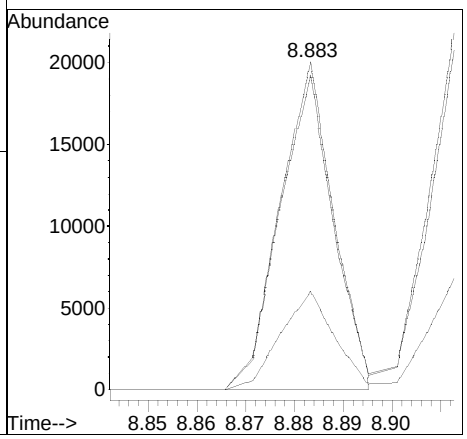


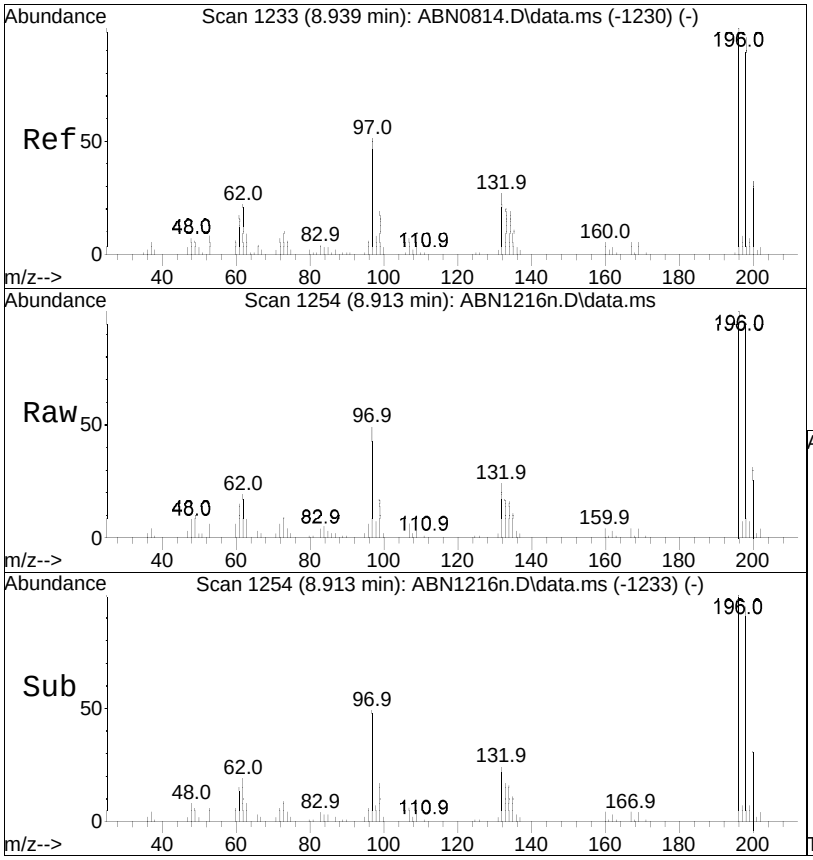


#44
2,4,6-Trichlorophenol
Concen: 5.69 ug/ml
RT: 8.883 min Scan# 1249
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:196 Resp: 15349

Ion	Ratio	Lower	Upper
196	100		
198	96.1	77.5	116.3
200	30.3	23.8	35.6

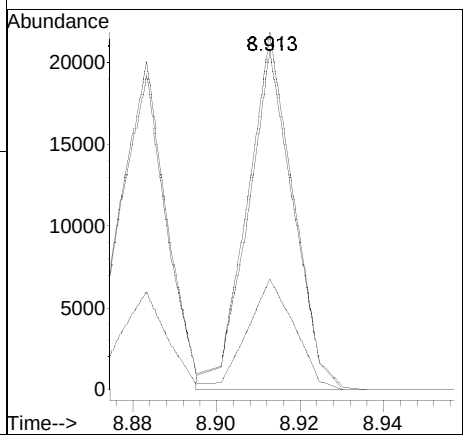


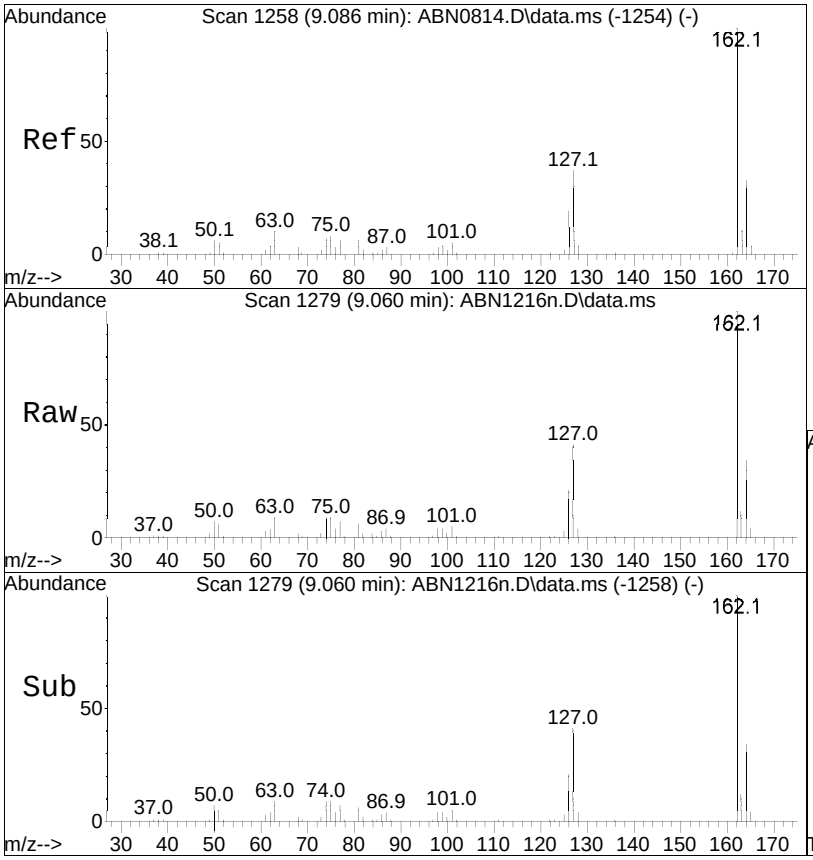


#45
2,4,5-Trichlorophenol
Concen: 5.76 ug/ml
RT: 8.913 min Scan# 1254
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:196 Resp: 16482

Ion	Ratio	Lower	Upper
196	100		
200	32.1	25.4	38.0
198	94.8	78.0	117.0

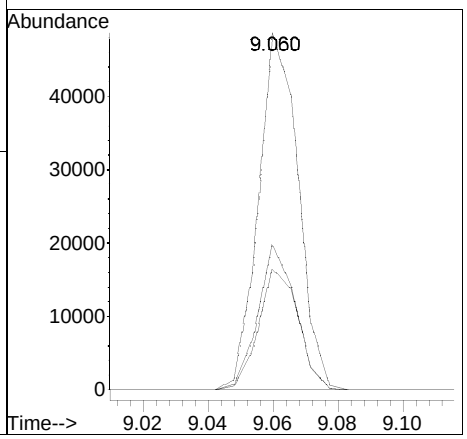


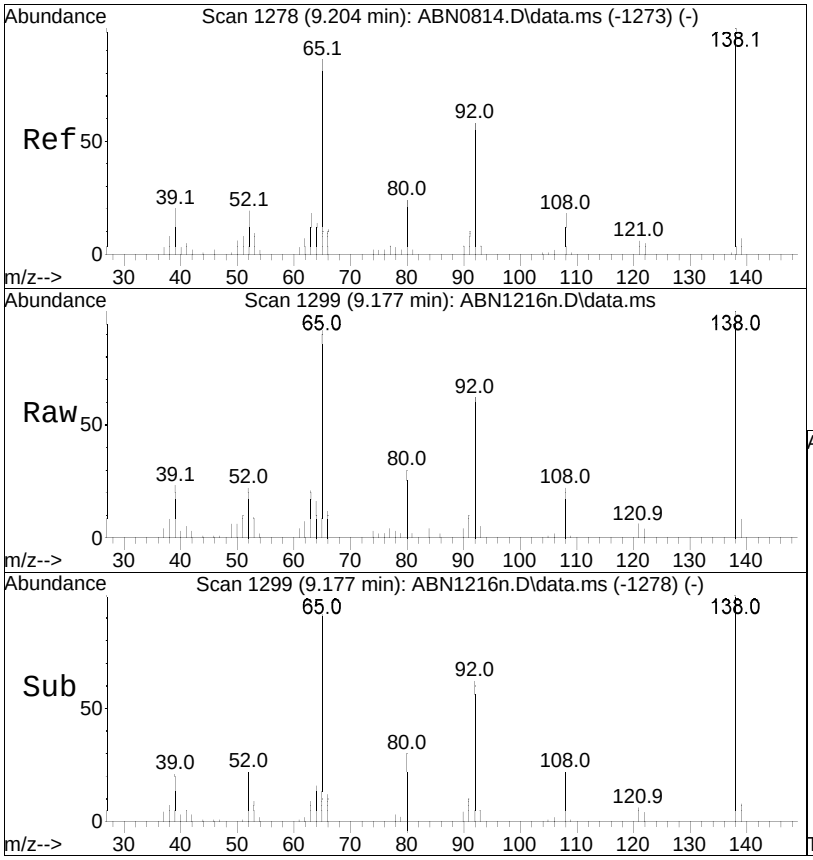


#47
2-Chloronaphthalene
Concen: 4.65 ug/ml
RT: 9.060 min Scan# 1279
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:162 Resp: 40891

Ion	Ratio	Lower	Upper
162	100		
127	38.7	32.2	48.4
164	34.1	25.7	38.5

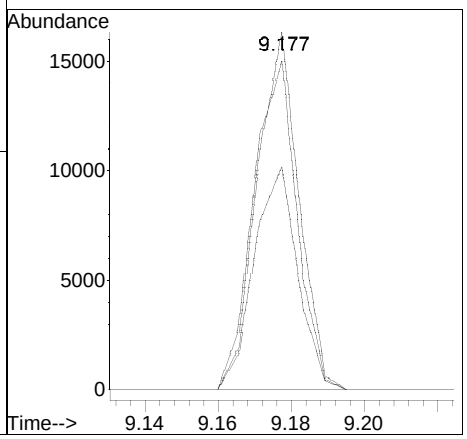


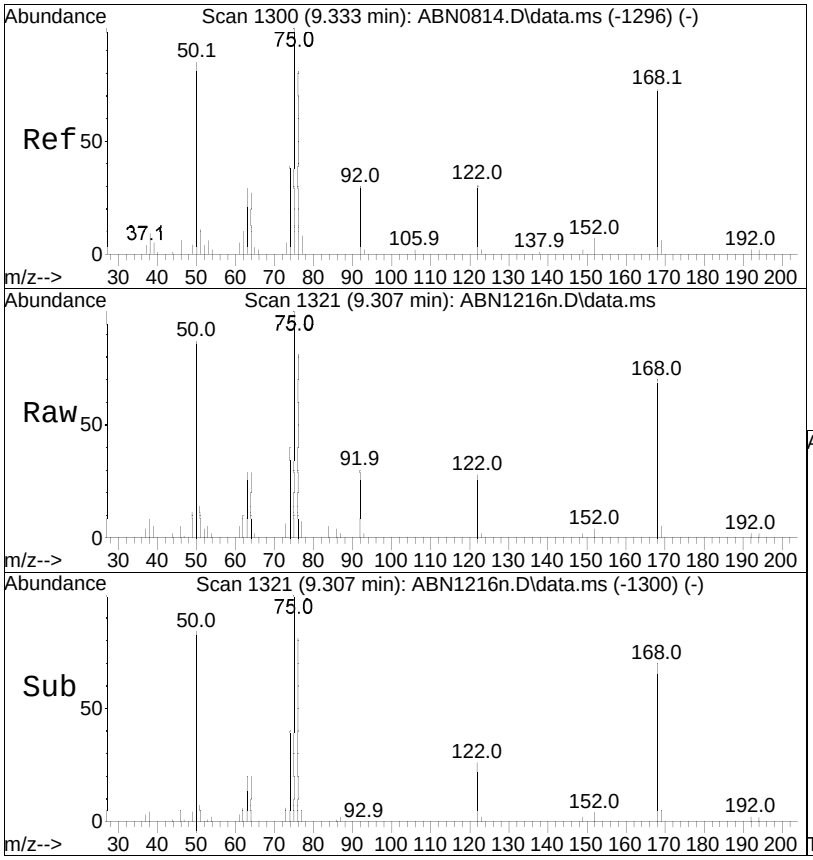


#48
2-Nitroaniline
Concen: 5.50 ug/ml
RT: 9.177 min Scan# 1299
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:138 Resp: 12925

Ion	Ratio	Lower	Upper
138	100		
92	64.7	53.5	80.3
65	95.3	86.3	129.5

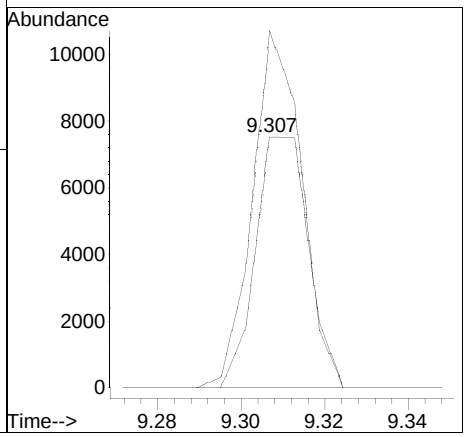


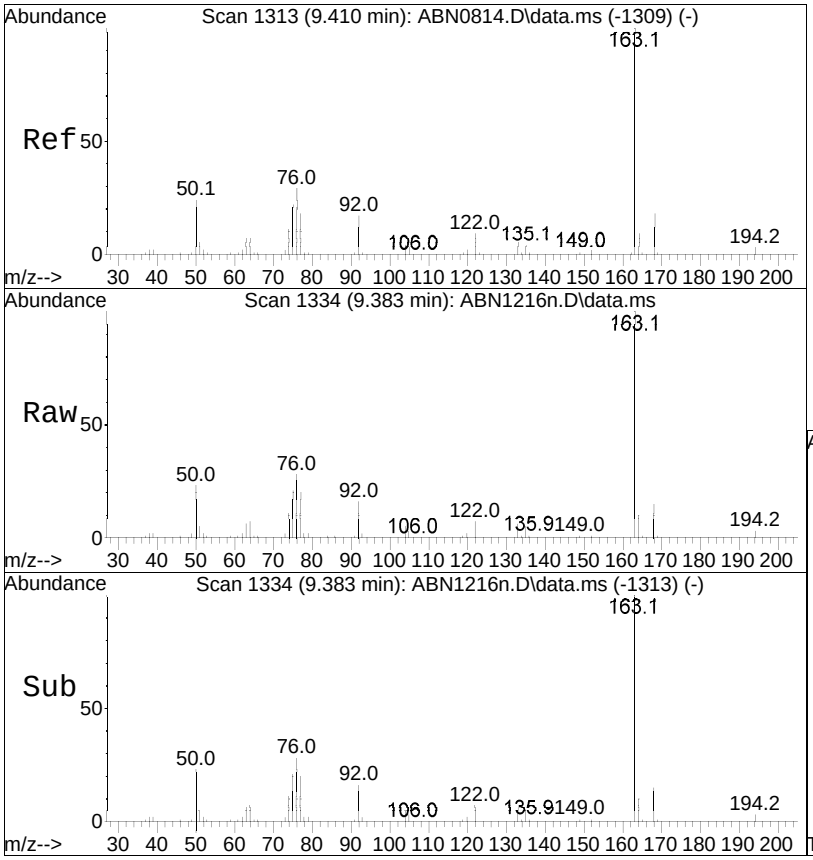


#49
1,4-Dinitrobenzene
Concen: 5.23 ug/ml
RT: 9.307 min Scan# 1321
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:168 Resp: 6615

Ion	Ratio	Lower	Upper
168	100		
75	132.0	121.8	182.8

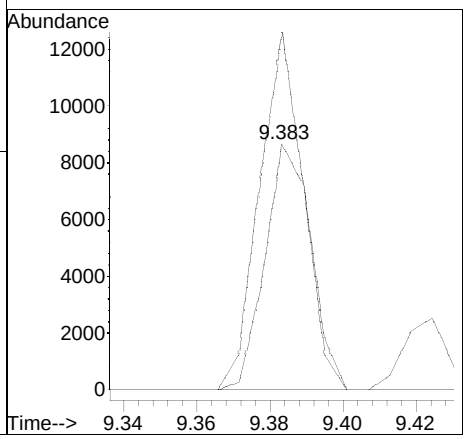


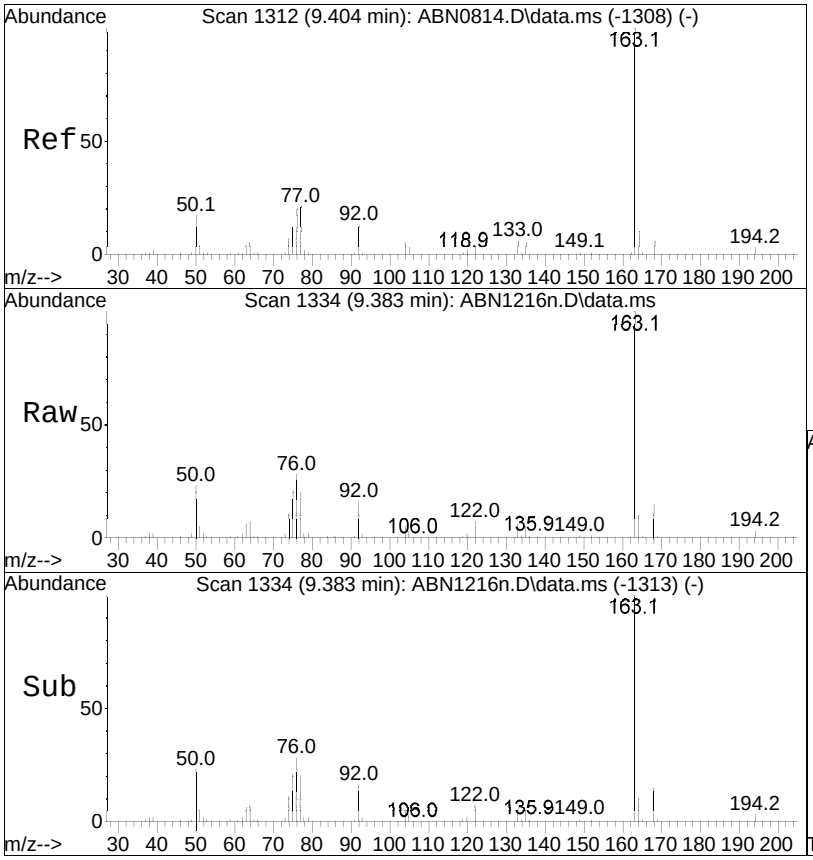


#50
1,3-Dinitrobenzene
Concen: 5.06 ug/ml
RT: 9.383 min Scan# 1334
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:168 Resp: 7517

Ion	Ratio	Lower	Upper
168	100		
75	138.8	22.7	34.1#

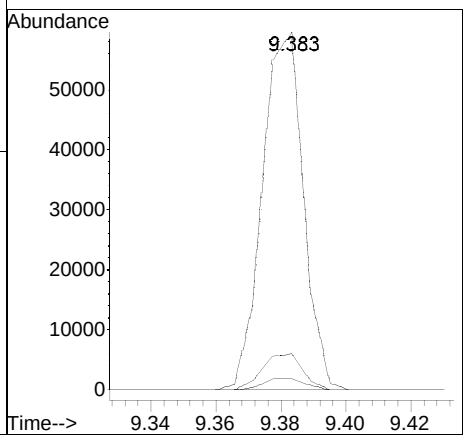


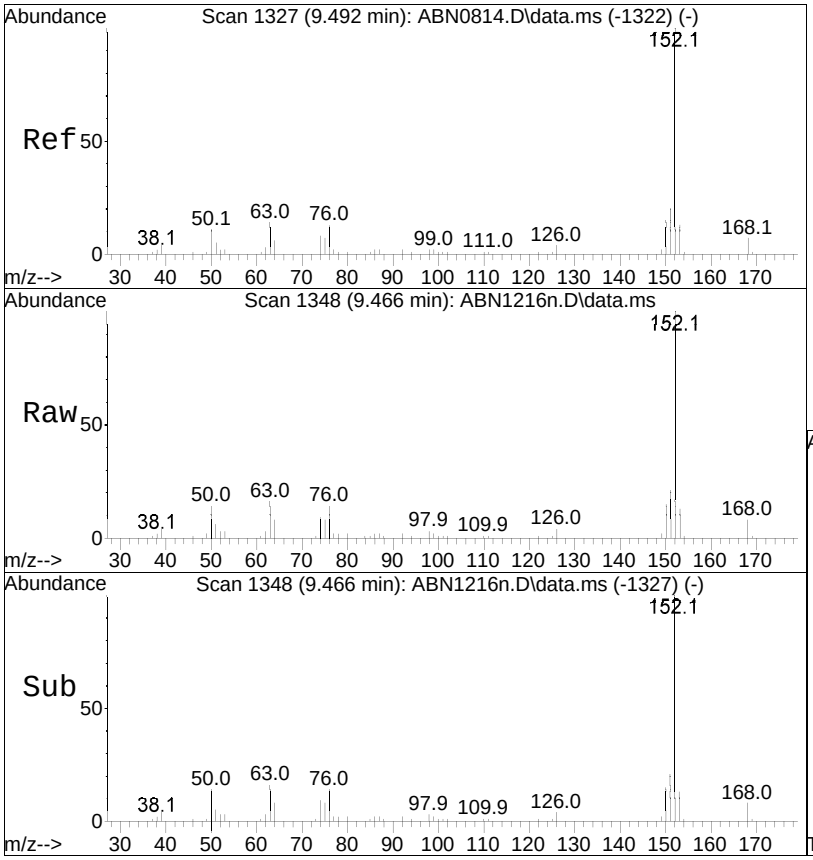


#51
Dimethyl phthalate
Concen: 5.20 ug/ml
RT: 9.383 min Scan# 1334
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:163 Resp: 51693

Ion	Ratio	Lower	Upper
163	100		
194	3.2	3.5	5.3#
164	10.0	7.9	11.9

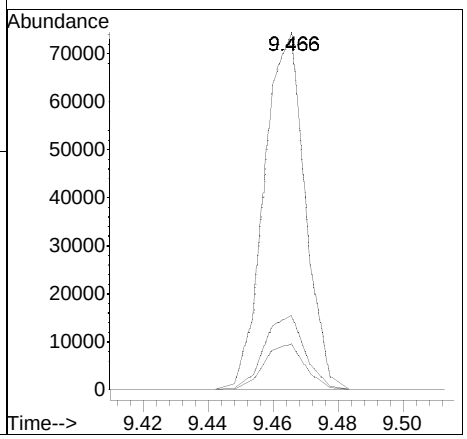


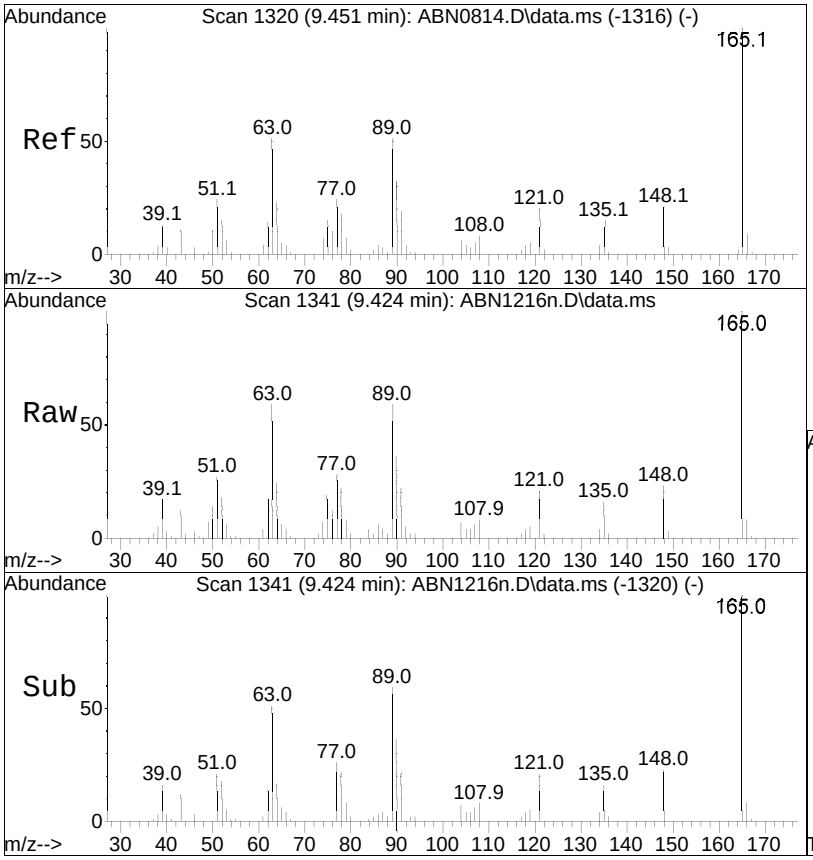


#52
Acenaphthylene
Concen: 4.93 ug/ml
RT: 9.466 min Scan# 1348
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:152 Resp: 64285

Ion	Ratio	Lower	Upper
152	100		
151	20.8	15.8	23.6
153	13.0	10.5	15.7

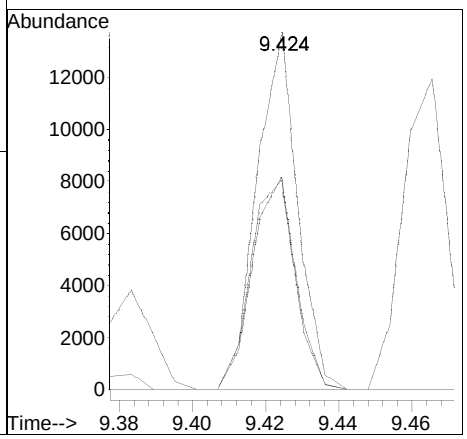


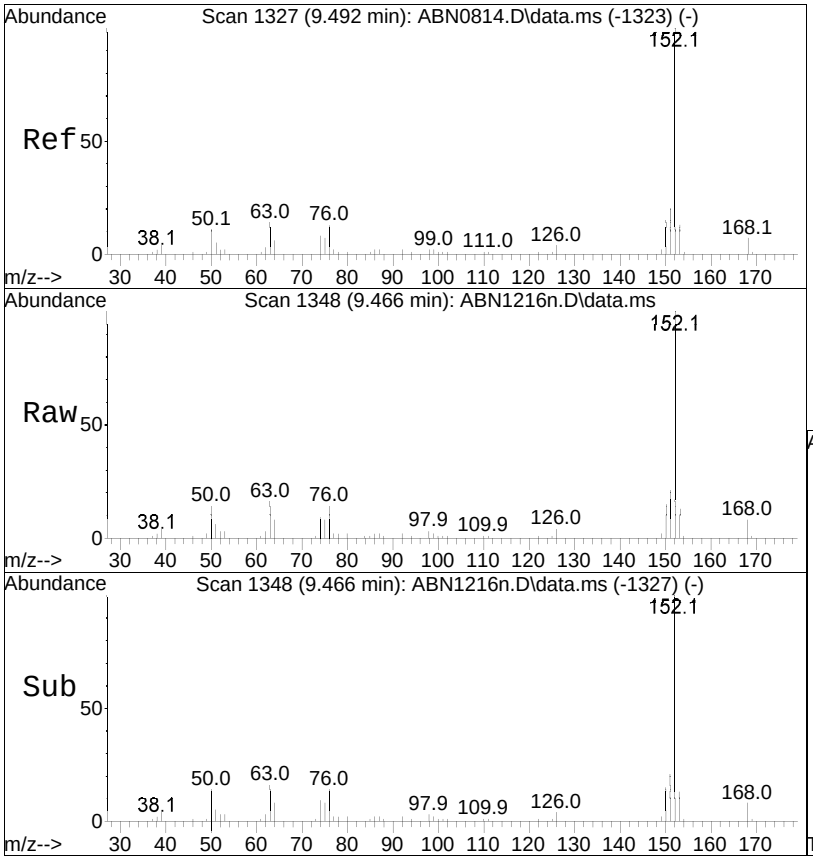


#53
2,6-Dinitrotoluene
Concen: 5.50 ug/ml
RT: 9.424 min Scan# 1341
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:165 Resp: 10695

Ion	Ratio	Lower	Upper
165	100		
89	62.8	54.2	81.2
63	63.7	64.2	96.2#

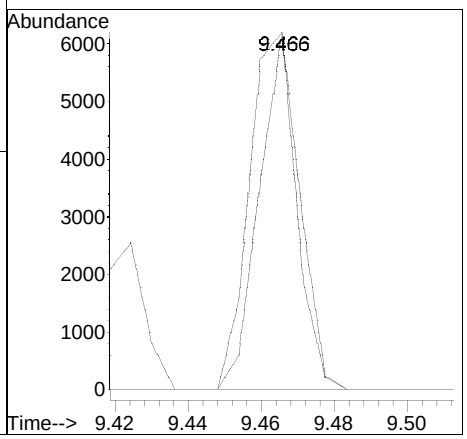


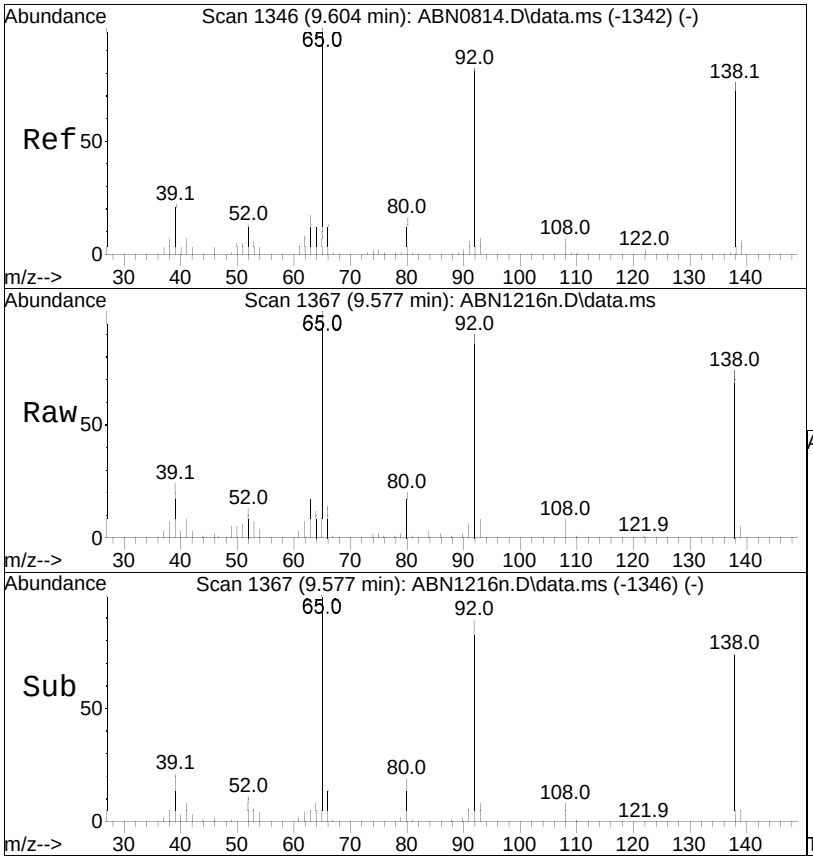


#54
1,2-Dinitrobenzene
Concen: 5.37 ug/ml
RT: 9.466 min Scan# 1348
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:168 Resp: 4744

Ion	Ratio	Lower	Upper
168	100		
75	115.3	30.9	46.3#

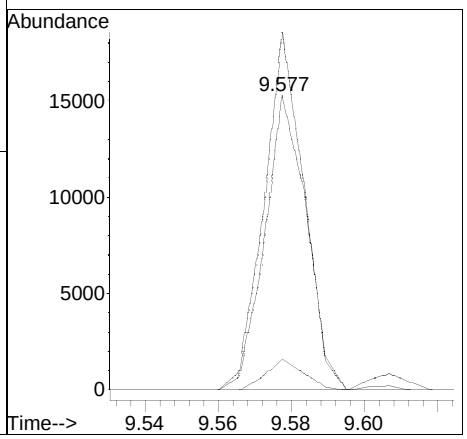


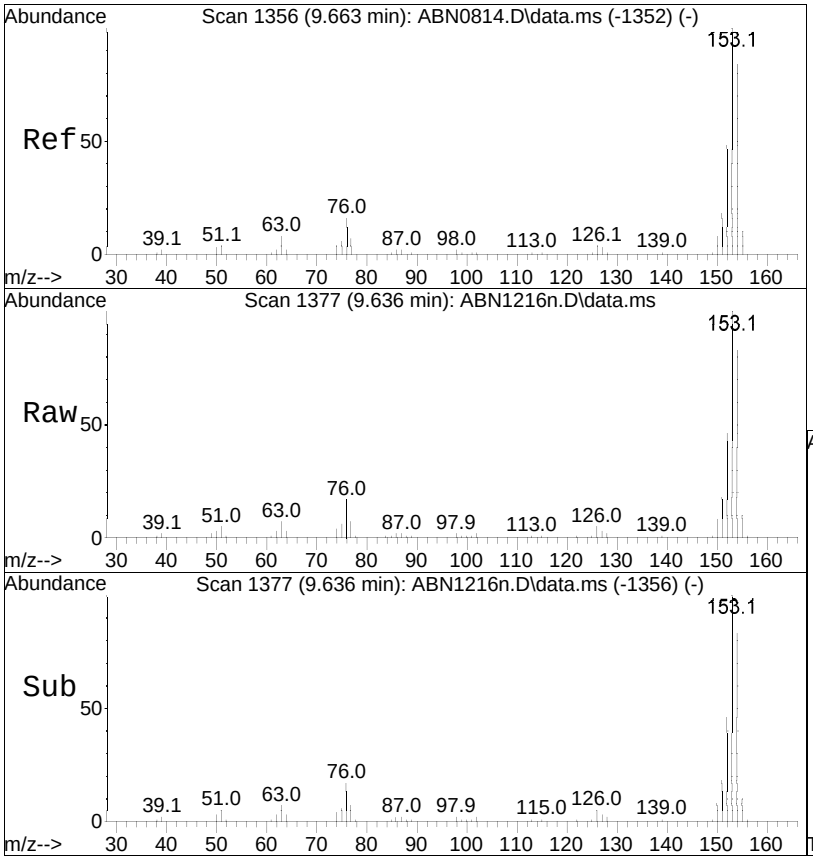


#64
3-Nitroaniline
Concen: 5.11 ug/ml
RT: 9.577 min Scan# 1367
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:138 Resp: 11986

Ion	Ratio	Lower	Upper
138	100		
92	117.3	93.4	140.2
108	9.5	9.5	14.3

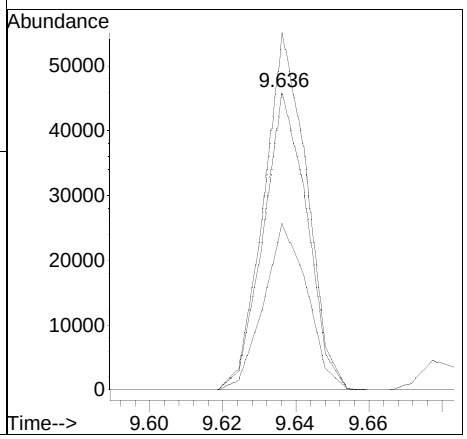


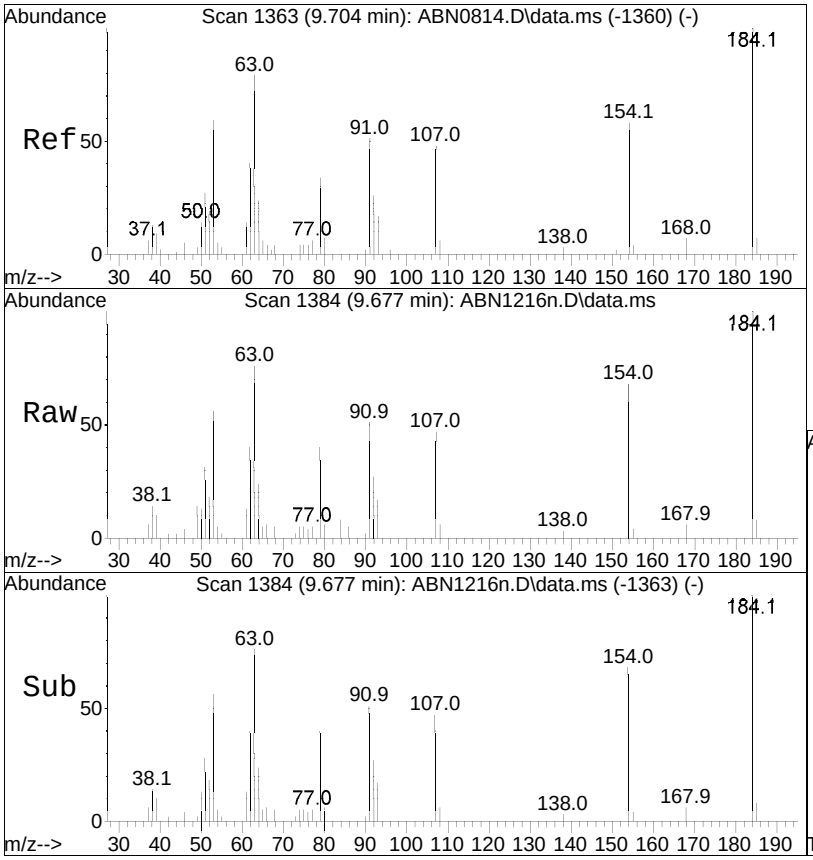


#65
Acenaphthene
Concen: 4.54 ug/ml
RT: 9.636 min Scan# 1377
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:154 Resp: 37843

Ion	Ratio	Lower	Upper
154	100		
153	118.3	85.3	127.9
152	56.1	41.4	62.0

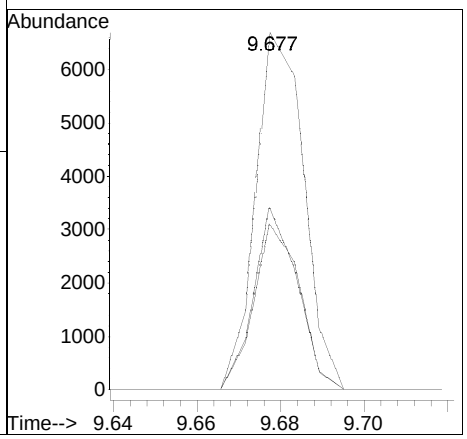


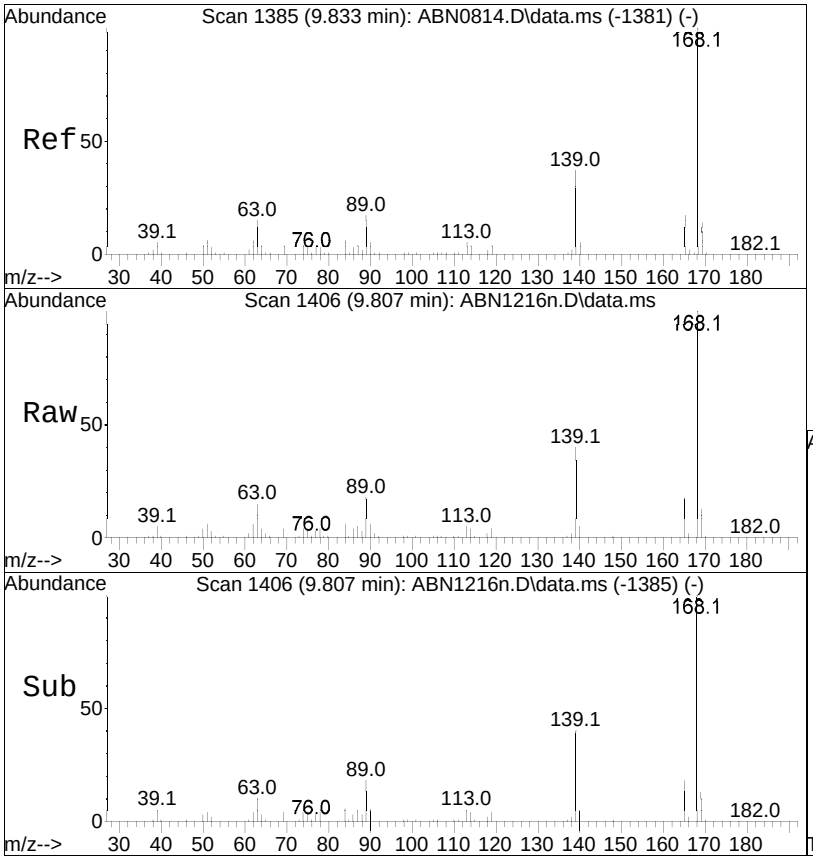


#66
2,4-Dinitrophenol
Concen: 4.17 ug/ml
RT: 9.677 min Scan# 1384
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:184 Resp: 5353

Ion	Ratio	Lower	Upper
184	100		
107	44.2	37.7	56.5
91	46.1	46.3	69.5#

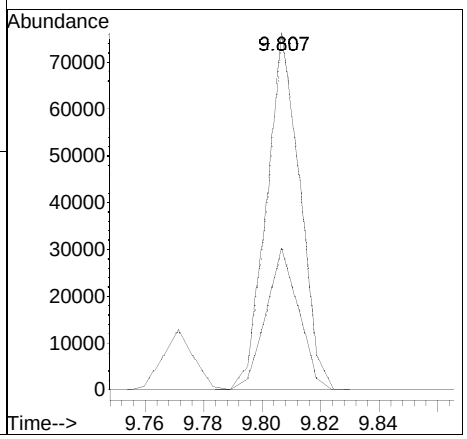


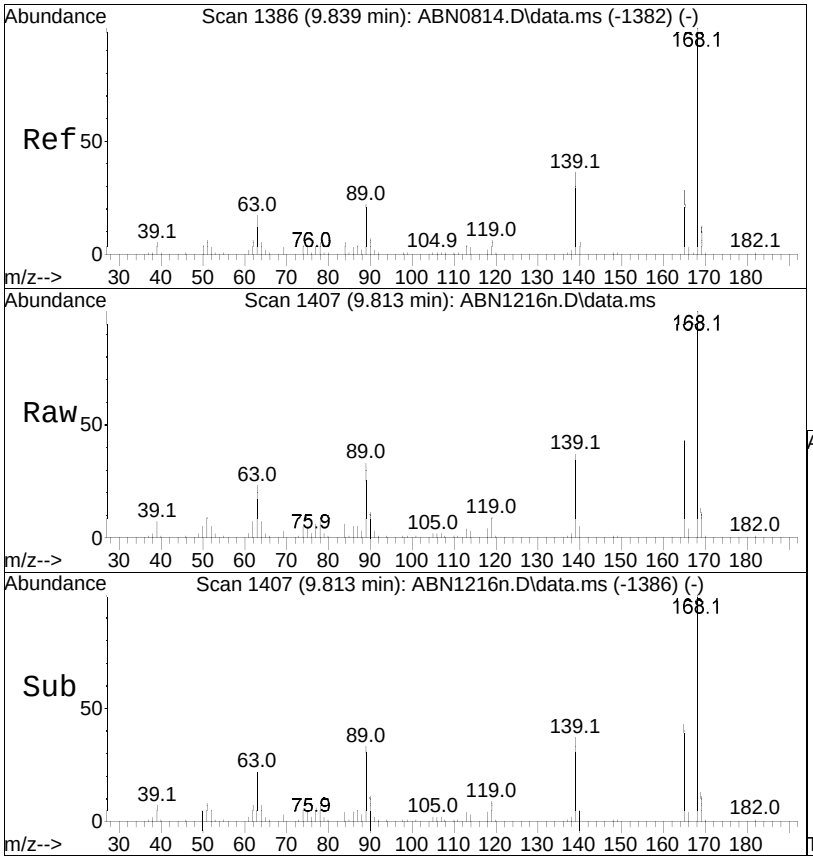


#67
Dibenzofuran
Concen: 4.34 ug/ml
RT: 9.807 min Scan# 1406
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:168 Resp: 59724

Ion	Ratio	Lower	Upper
168	100		
139	39.5	31.4	47.2

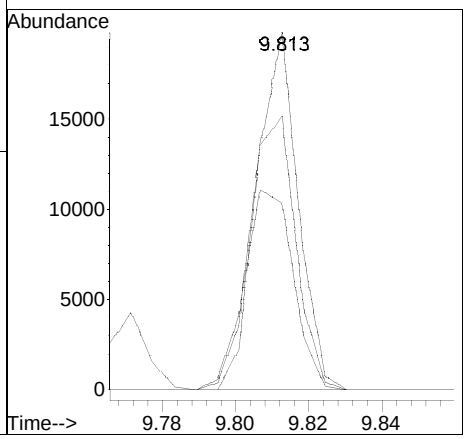


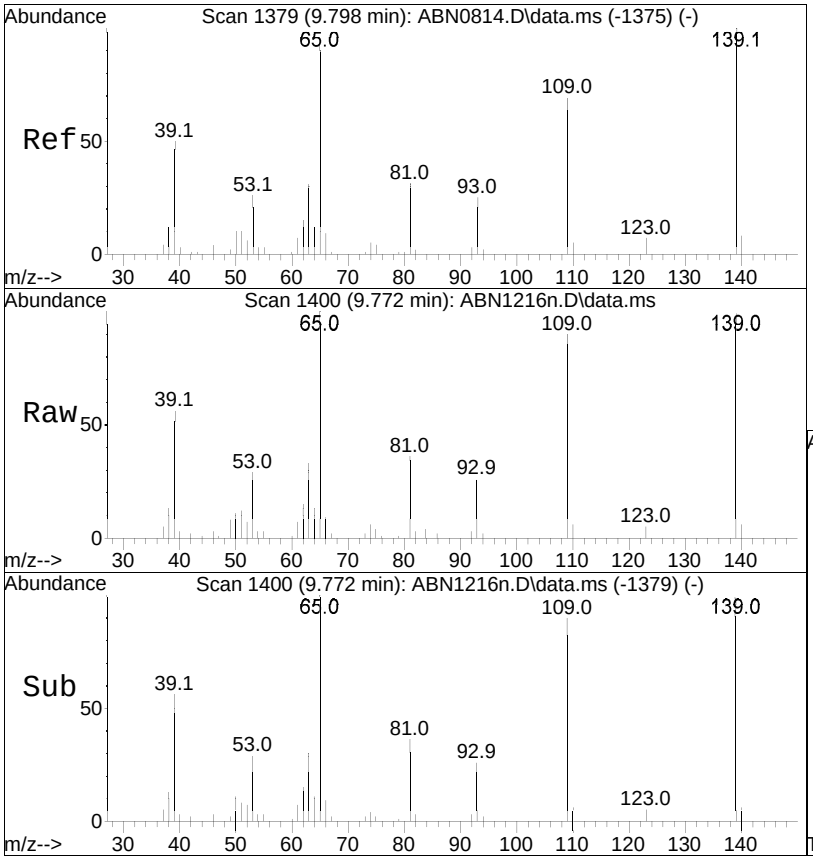


#68
2,4-Dinitrotoluene
Concen: 5.16 ug/ml
RT: 9.813 min Scan# 1407
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:165 Resp: 15437

Ion	Ratio	Lower	Upper
165	100		
89	85.9	72.0	108.0
63	66.9	52.7	79.1

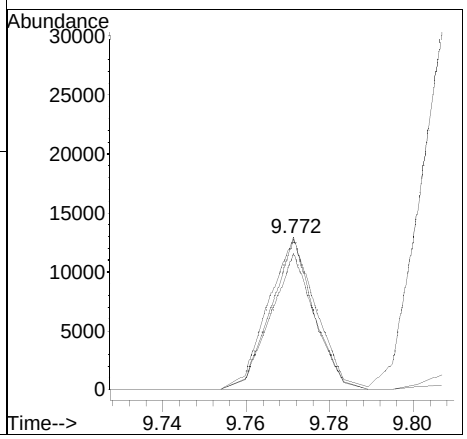


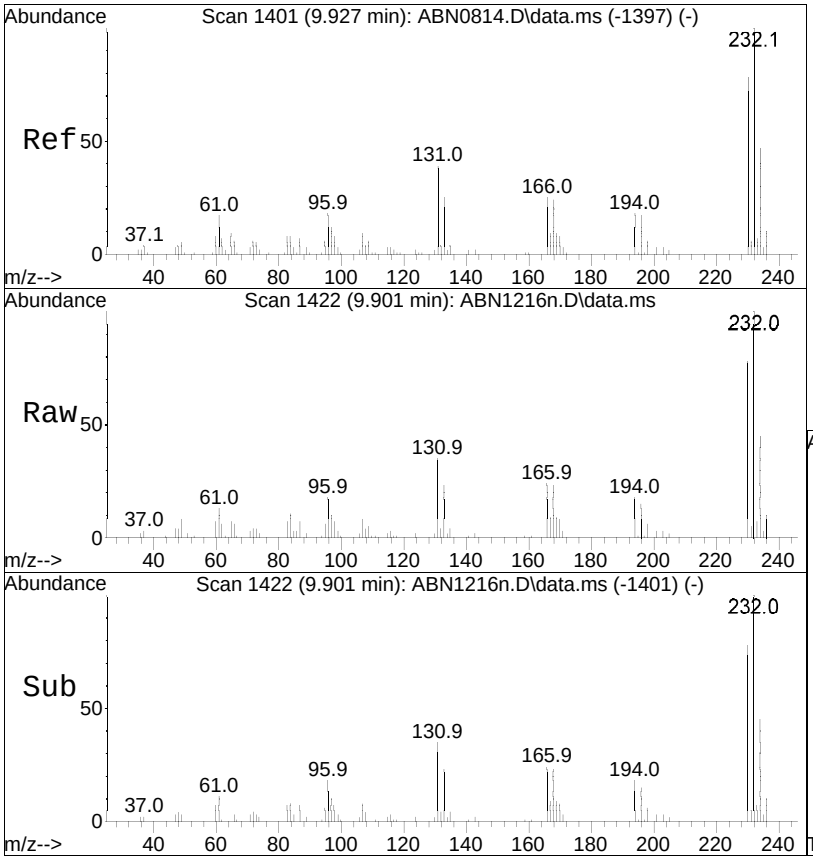


#69
4-Nitrophenol
Concen: 5.22 ug/ml
RT: 9.772 min Scan# 1400
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion: 65 Resp: 9685

Ion	Ratio	Lower	Upper
65	100		
109	88.4	47.4	71.2#
139	99.7	76.6	115.0

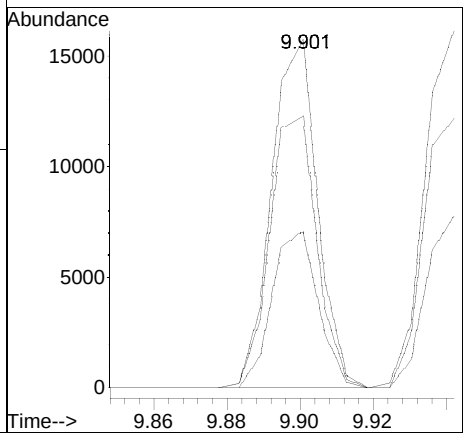


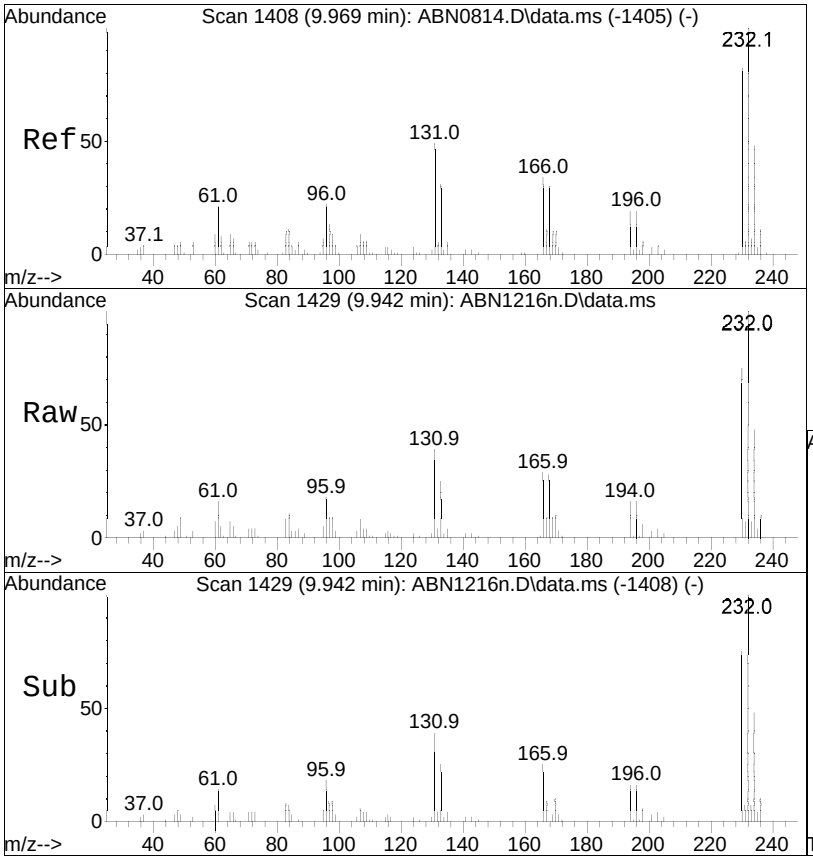


#70
2,3,5,6-Tetrachlorophenol
Concen: 5.49 ug/ml
RT: 9.901 min Scan# 1422
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:232 Resp: 13729

Ion	Ratio	Lower	Upper
232	100		
230	80.4	64.2	96.4
234	45.3	38.1	57.1

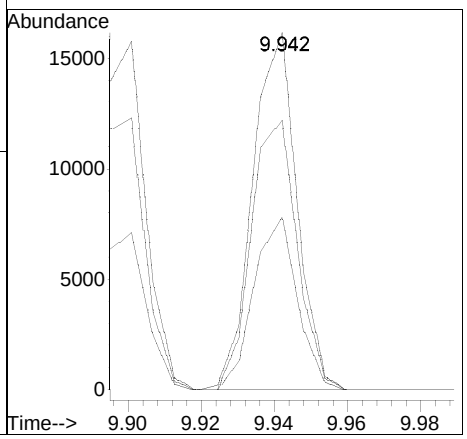


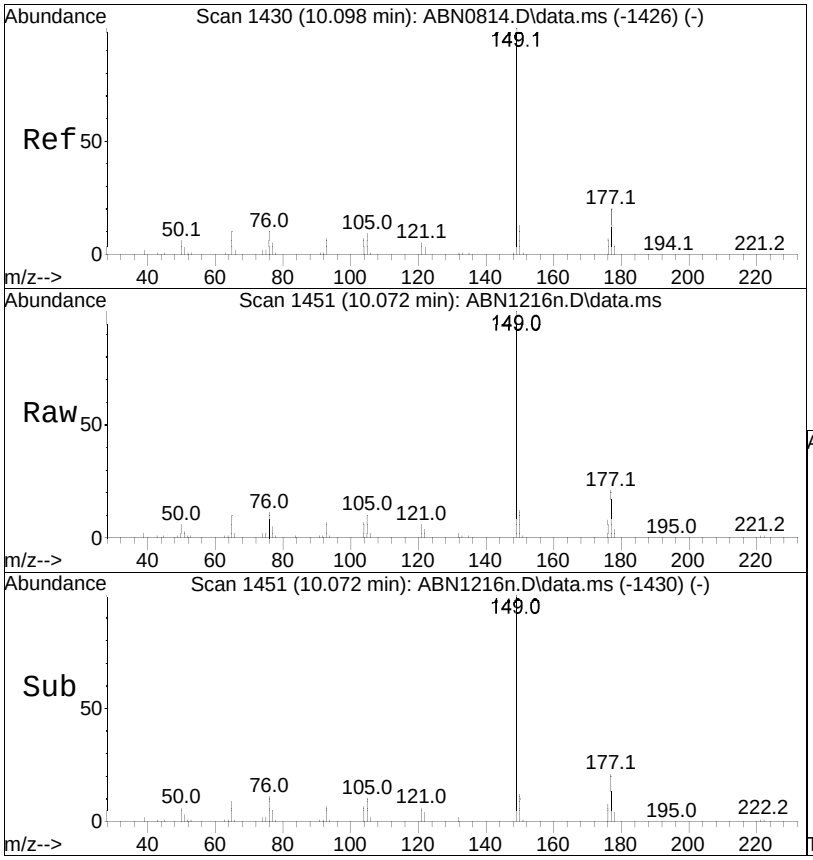


#71
2,3,4,6-Tetrachlorophenol
Concen: 5.70 ug/ml
RT: 9.942 min Scan# 1429
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:232 Resp: 13589

Ion	Ratio	Lower	Upper
232	100		
230	78.4	61.8	92.8
234	47.6	36.2	54.2

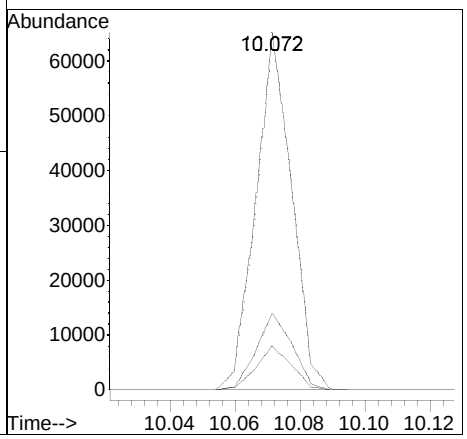


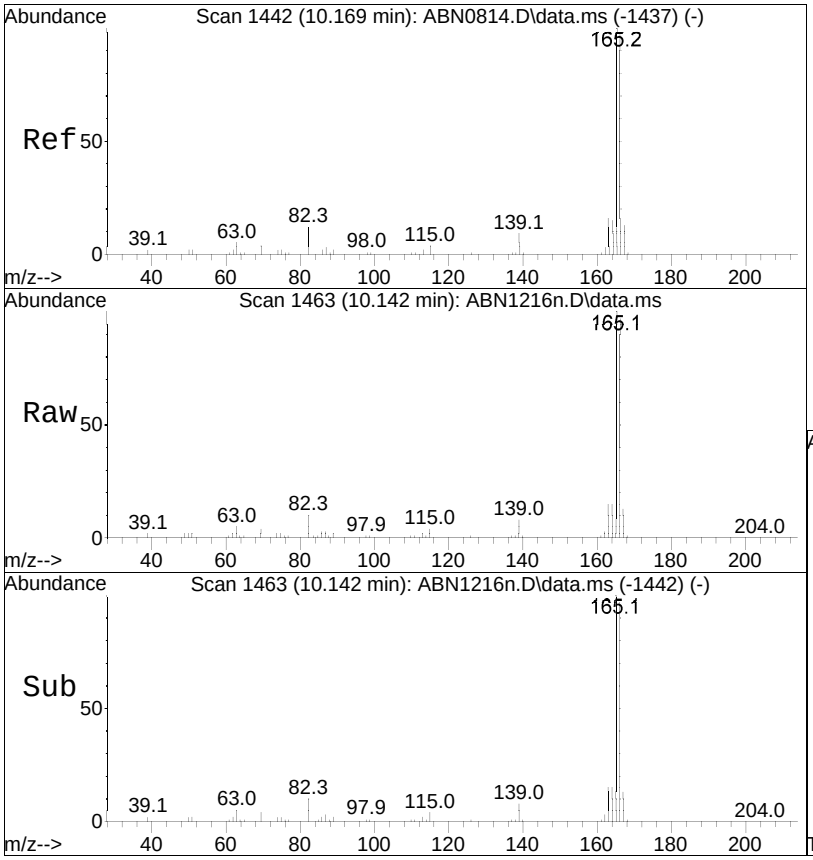


#72
Diethyl phthalate
Concen: 5.06 ug/ml
RT: 10.072 min Scan# 1451
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:149 Resp: 49185

Ion	Ratio	Lower	Upper
149	100		
177	21.8	16.1	24.1
150	12.3	9.4	14.2

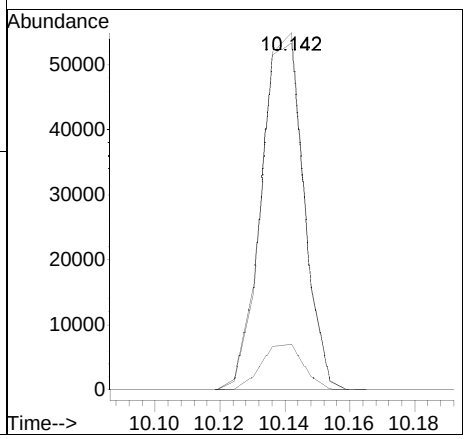


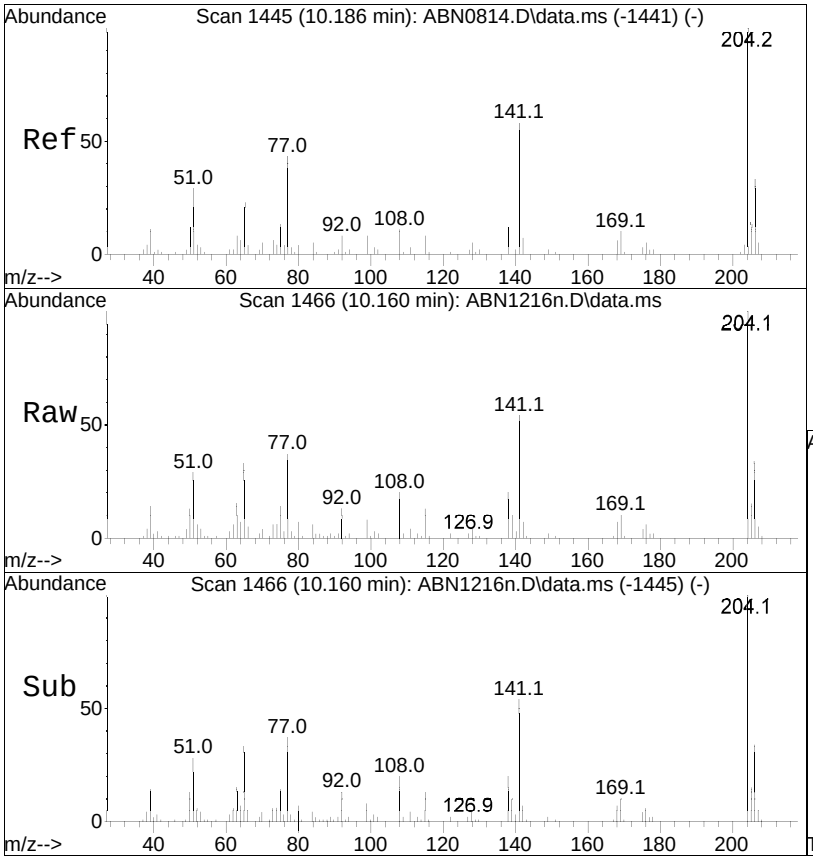


#73
Fluorene
Concen: 4.74 ug/ml
RT: 10.142 min Scan# 1463
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:166 Resp: 48760

Ion	Ratio	Lower	Upper
166	100		
165	102.7	76.2	114.2
167	13.3	10.6	15.8

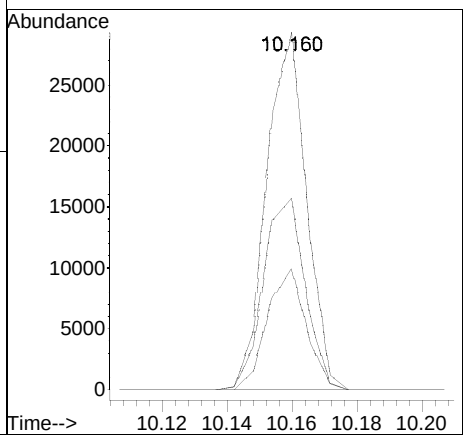


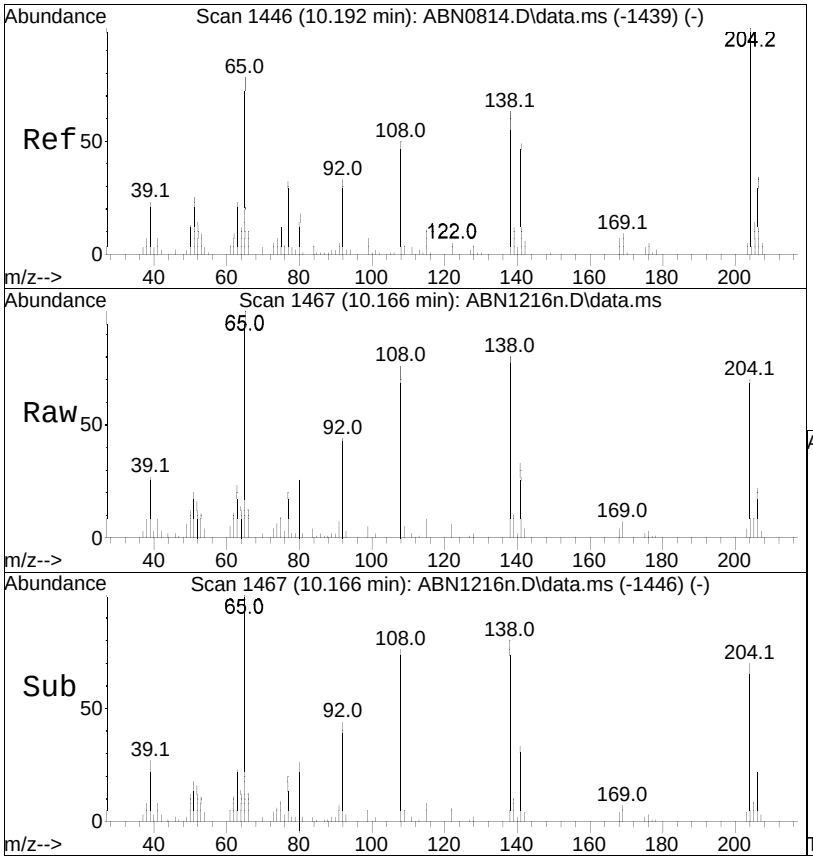


#74
4-Chlorophenyl phenyl ether
Concen: 4.75 ug/ml
RT: 10.160 min Scan# 1466
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:204 Resp: 24819

Ion	Ratio	Lower	Upper
204	100		
206	33.2	25.8	38.6
141	56.3	53.6	80.4

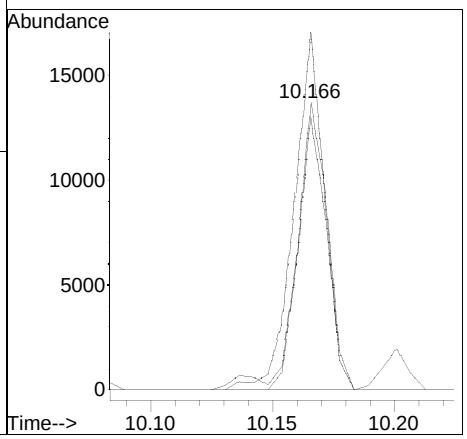


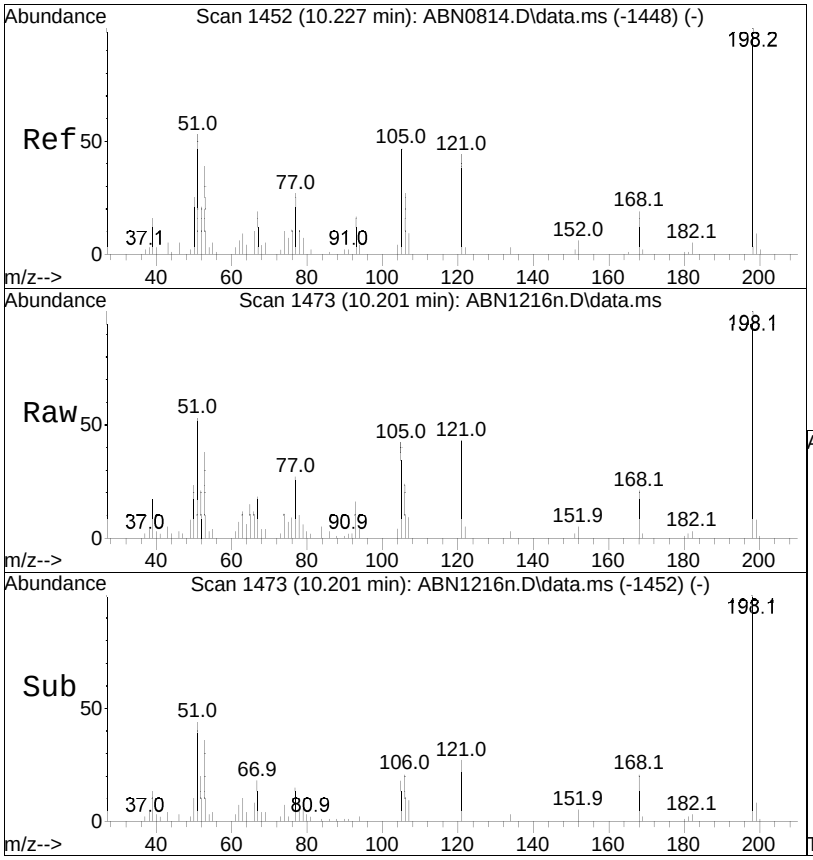


#75
4-Nitroaniline
Concen: 5.10 ug/ml
RT: 10.166 min Scan# 1467
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:138 Resp: 11966

Ion	Ratio	Lower	Upper
138	100		
108	87.0	52.1	78.1#
65	122.9	115.0	172.6

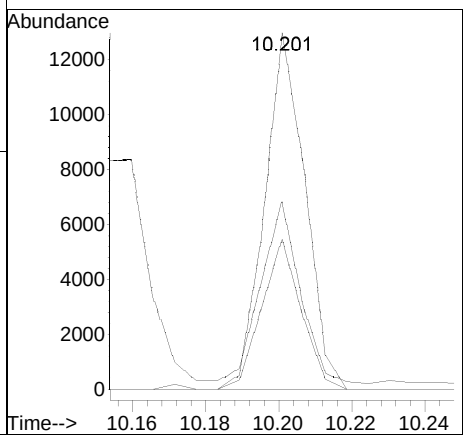


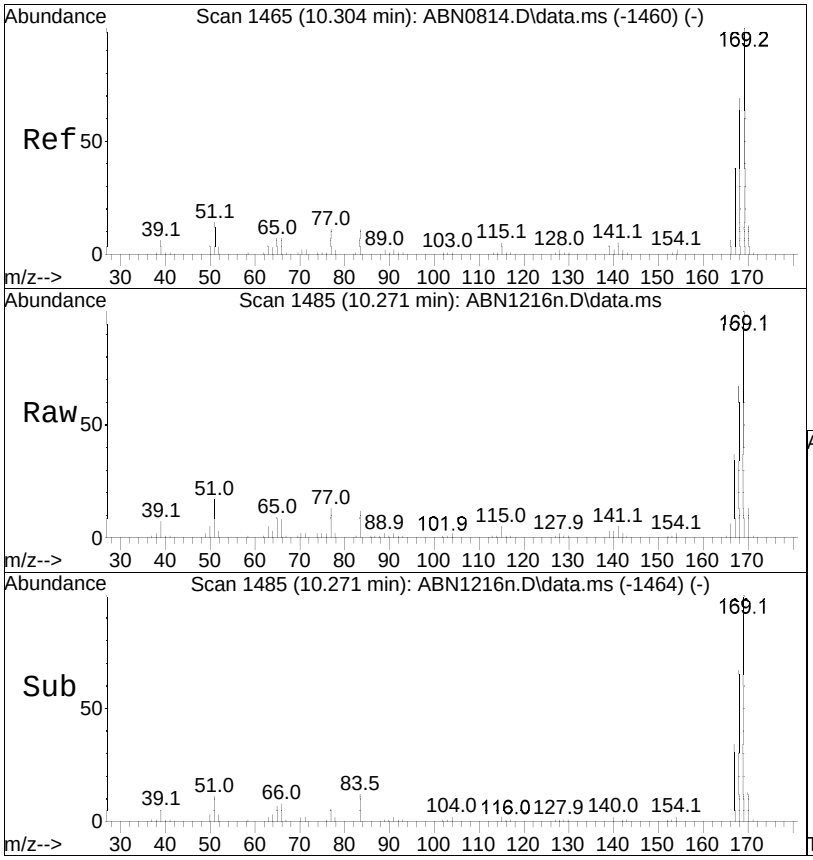


#76
4,6-Dinitro-o-cresol
Concen: 5.36 ug/ml
RT: 10.201 min Scan# 1473
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:198 Resp: 9920

Ion	Ratio	Lower	Upper
198	100		
51	50.4	76.0	114.0#
105	41.3	45.6	68.4#

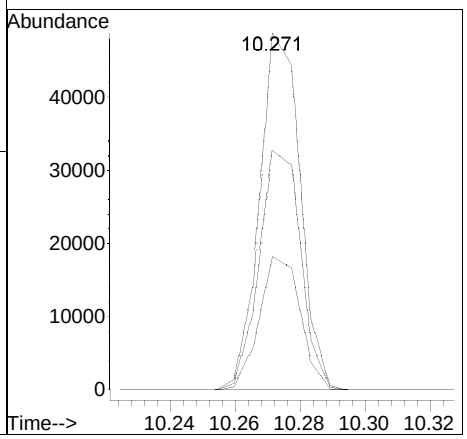


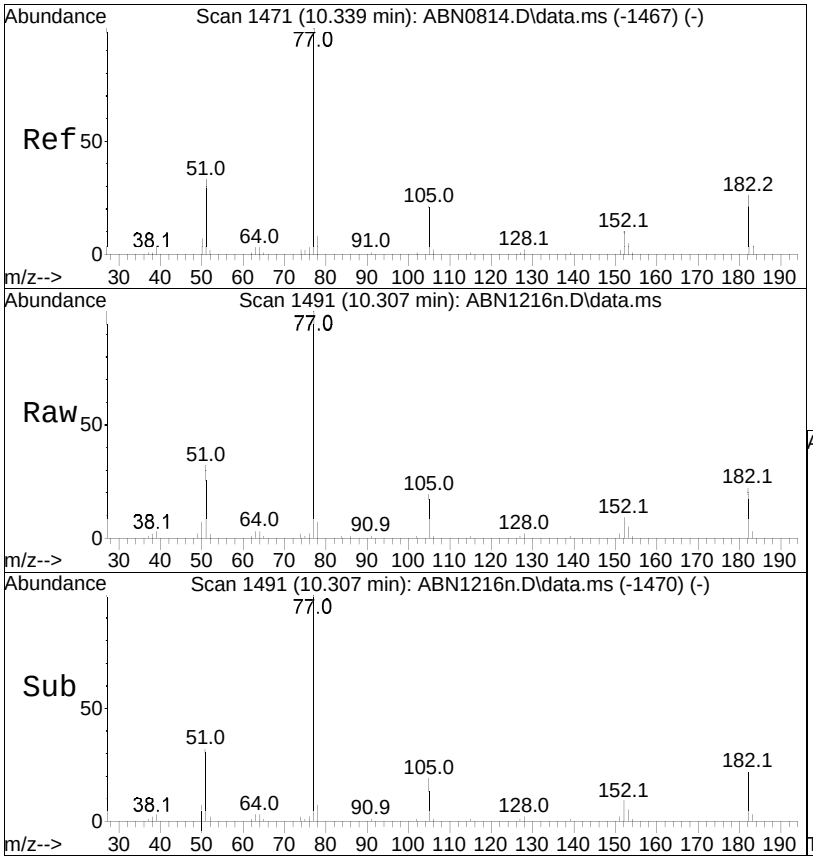


#77
NDPA/DPA
Concen: 4.93 ug/ml
RT: 10.271 min Scan# 1485
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:169 Resp: 42119

Ion	Ratio	Lower	Upper
169	100		
168	69.0	54.0	81.0
167	38.1	28.6	42.8

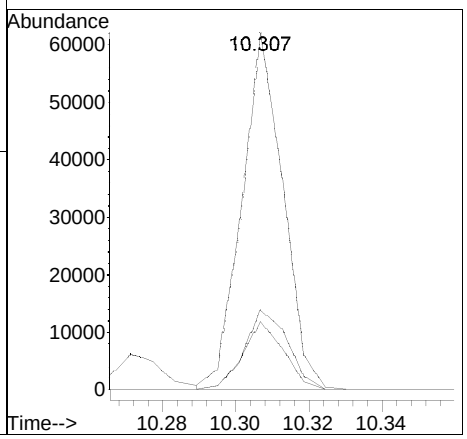


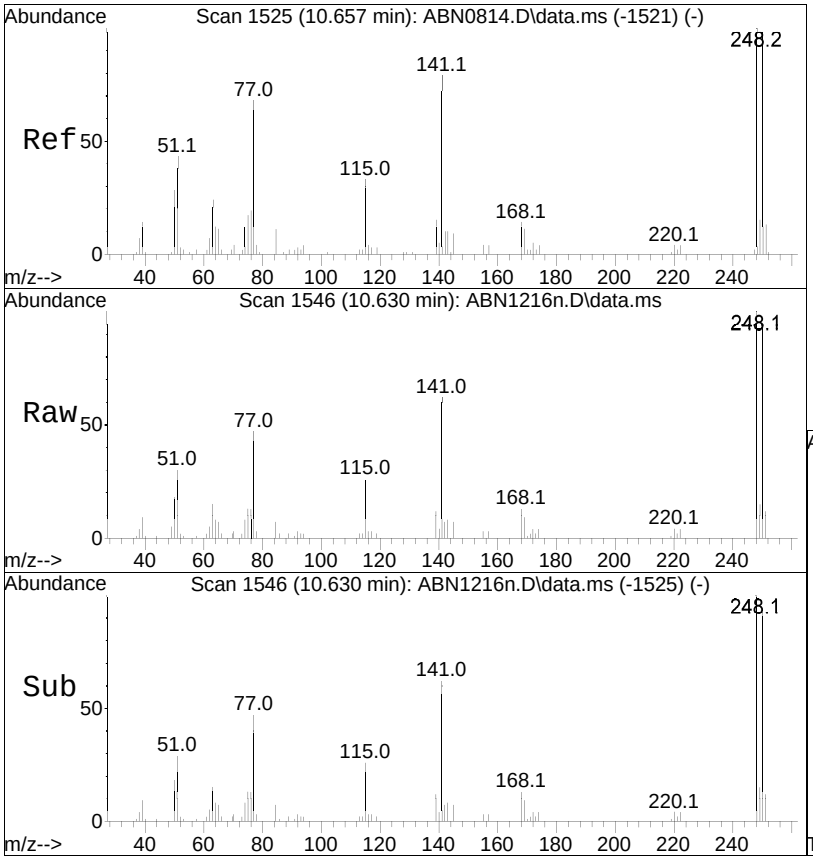


#78
Azobenzene
Concen: 5.35 ug/ml
RT: 10.307 min Scan# 1491
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion: 77 Resp: 48034

Ion	Ratio	Lower	Upper
77	100		
182	23.6	17.4	26.2
105	19.1	15.4	23.2

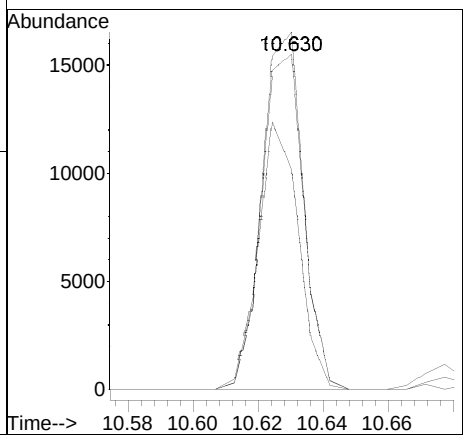


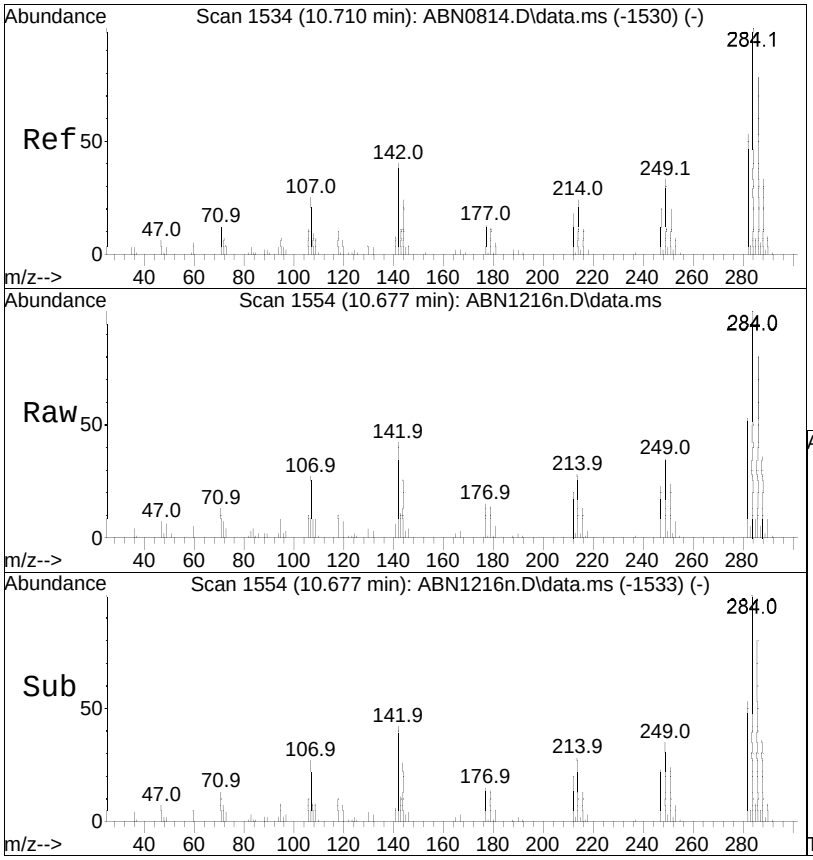


#80
4-Bromophenyl phenyl ether
Concen: 5.14 ug/ml
RT: 10.630 min Scan# 1546
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:248 Resp: 14502

Ion	Ratio	Lower	Upper
248	100		
141	72.7	76.6	114.8#
250	95.6	77.3	115.9

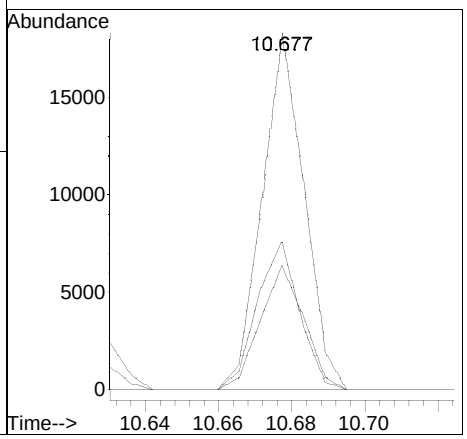


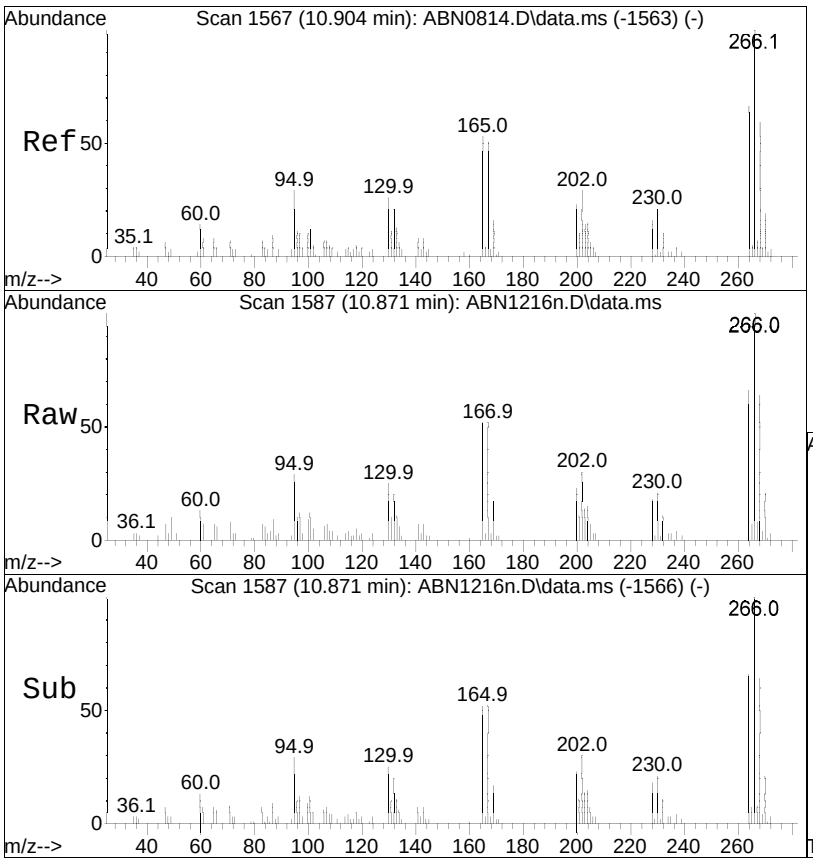


#81
Hexachlorobenzene
Concen: 4.67 ug/ml
RT: 10.677 min Scan# 1554
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:284 Resp: 14525

Ion	Ratio	Lower	Upper
284	100		
142	42.1	41.9	62.9
249	36.4	24.1	36.1#

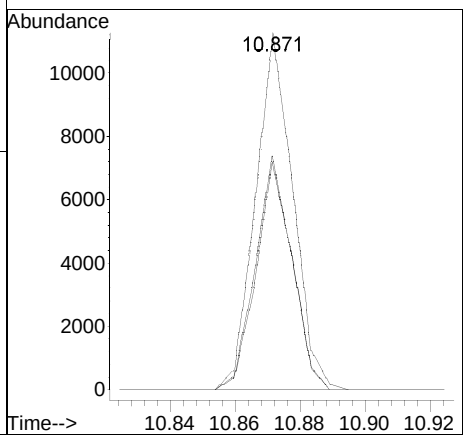


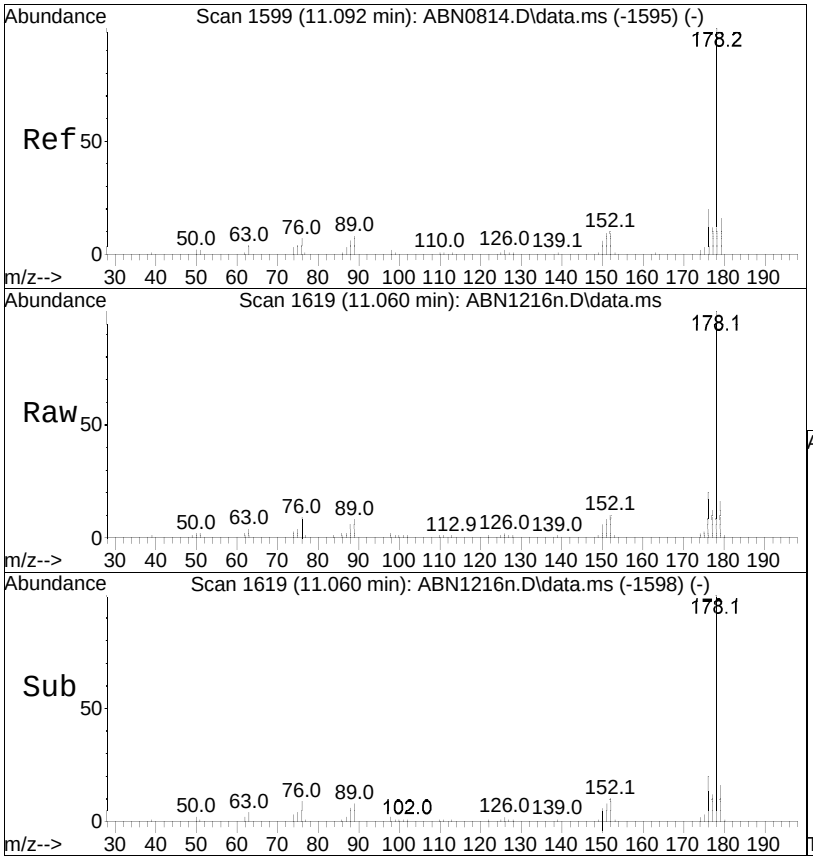


#82
Pentachlorophenol
Concen: 4.26 ug/ml
RT: 10.871 min Scan# 1587
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:266 Resp: 8921

Ion	Ratio	Lower	Upper
266	100		
264	64.2	49.7	74.5
268	62.1	50.5	75.7

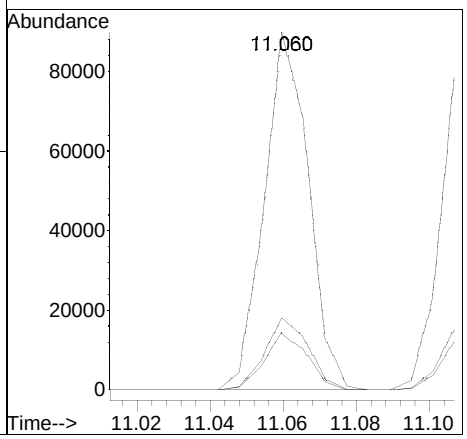


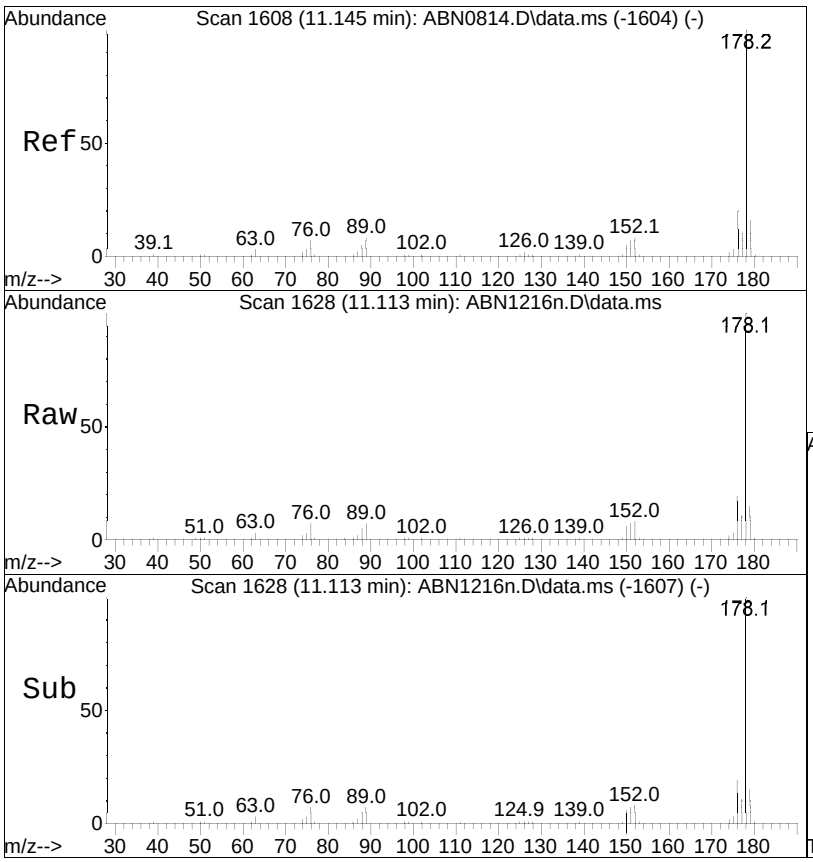


#89
Phenanthrene
Concen: 4.21 ug/ml
RT: 11.060 min Scan# 1619
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:178 Resp: 75248

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.2	18.2
176	19.8	15.4	23.2

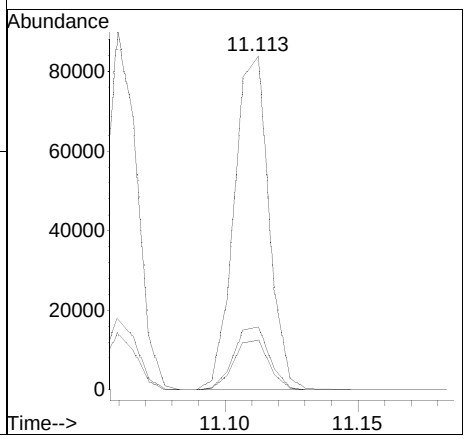


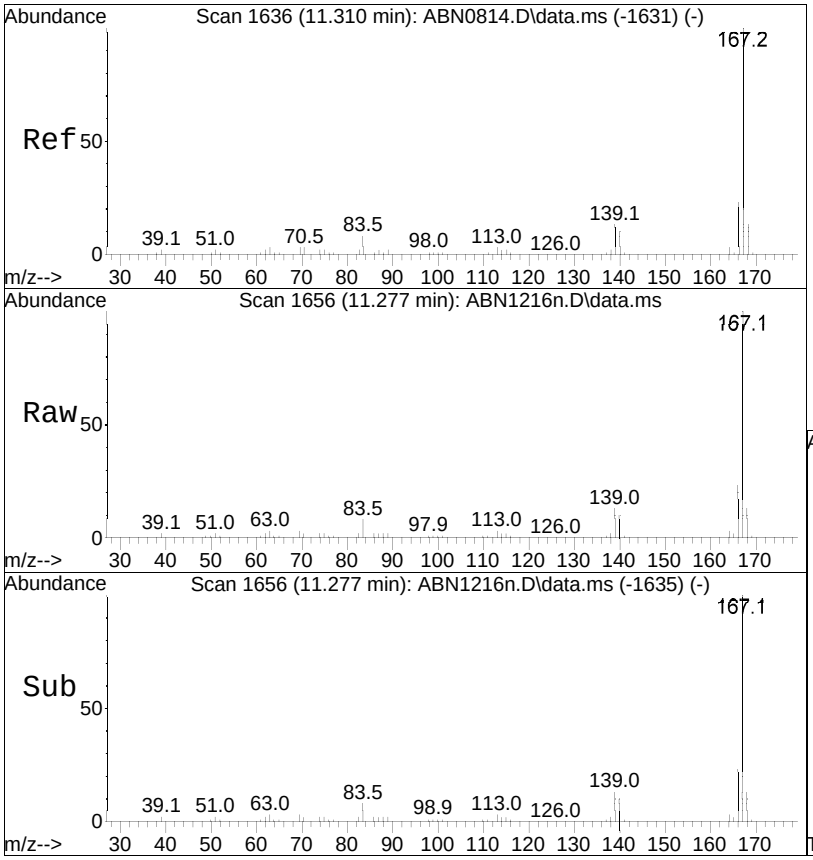


#90
Anthracene
Concen: 4.51 ug/ml
RT: 11.113 min Scan# 1628
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:178 Resp: 76203

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.0	18.0
176	19.4	14.6	22.0

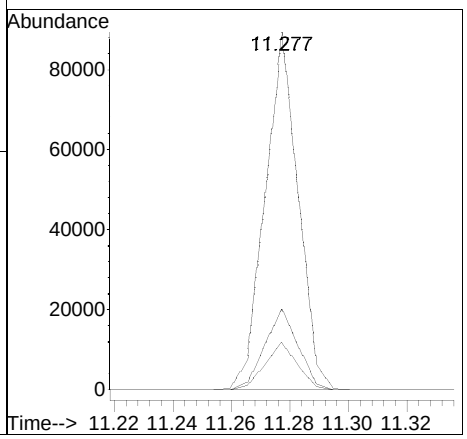


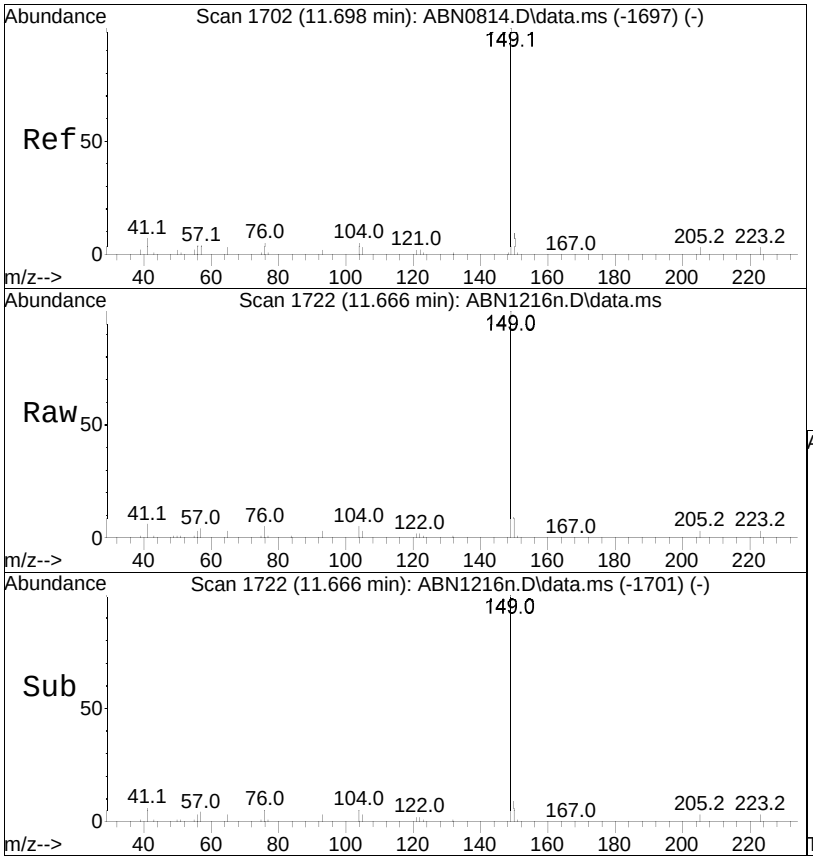


#91
Carbazole
Concen: 4.50 ug/ml
RT: 11.277 min Scan# 1656
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:167 Resp: 69403

Ion	Ratio	Lower	Upper
167	100		
168	13.2	10.6	15.8
166	22.9	17.4	26.0

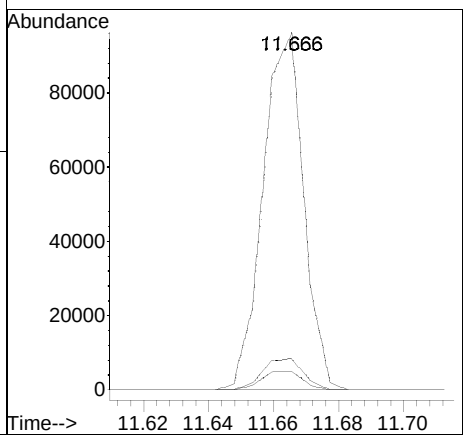


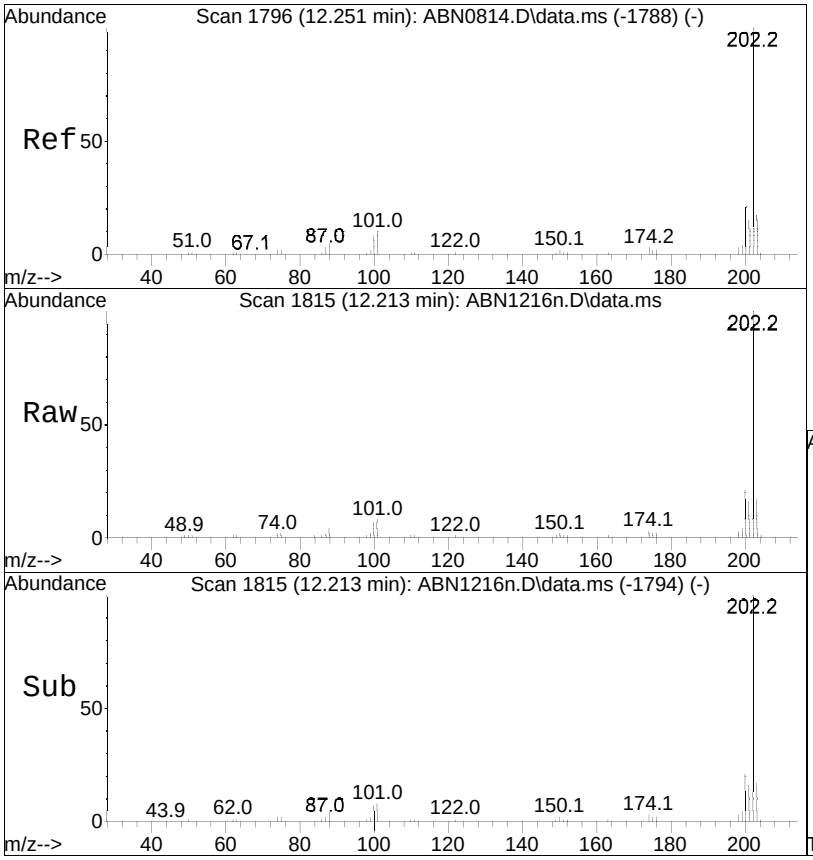


#92
Di-n-butylphthalate
Concen: 4.85 ug/ml
RT: 11.666 min Scan# 1722
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:149 Resp: 82403

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.0	10.6
104	5.4	4.5	6.7

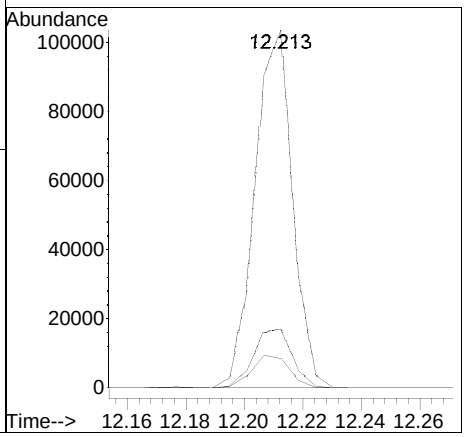


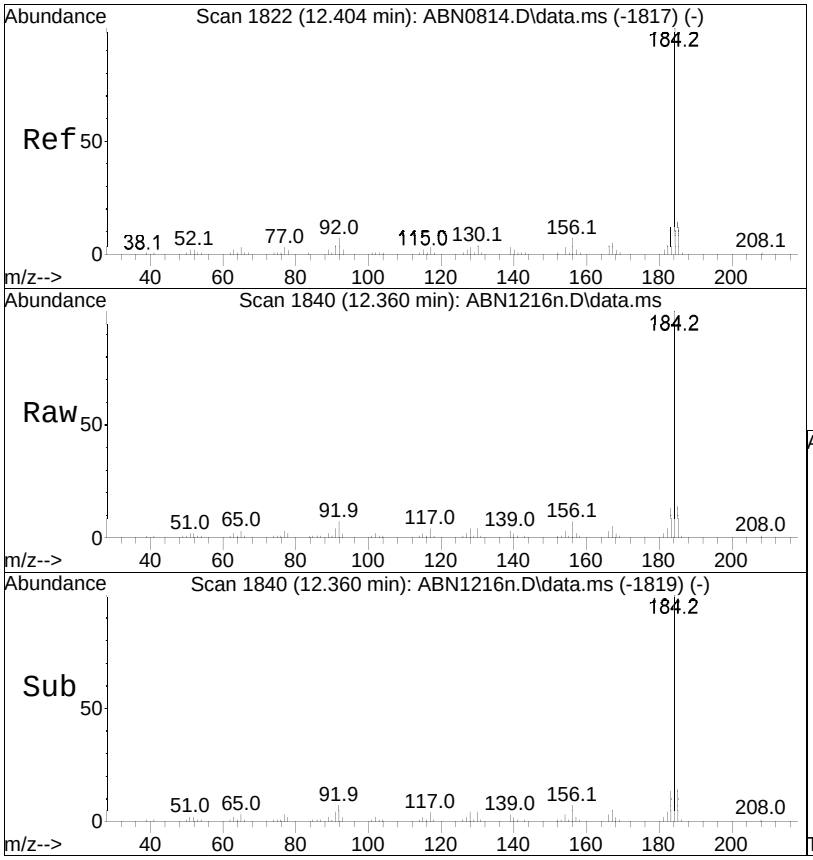


#93
Fluoranthene
Concen: 4.66 ug/ml
RT: 12.213 min Scan# 1815
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:202 Resp: 91323

Ion	Ratio	Lower	Upper
202	100		
101	9.3	13.5	20.3#
203	17.1	13.6	20.4

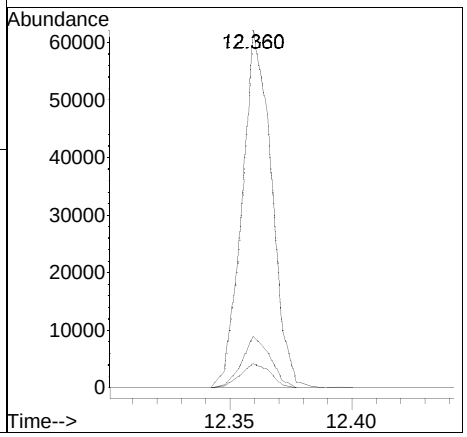


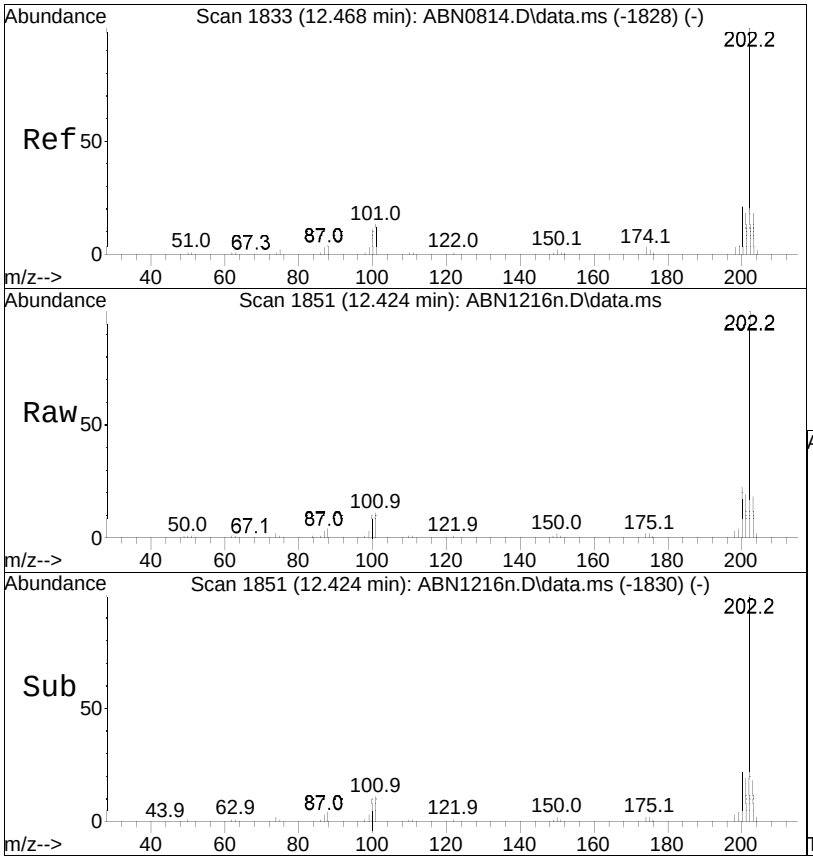


#94
Benzidine
Concen: 4.55 ug/ml
RT: 12.360 min Scan# 1840
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:184 Resp: 51516

Ion	Ratio	Lower	Upper
184	100		
92	6.9	9.1	13.7#
185	13.9	11.1	16.7

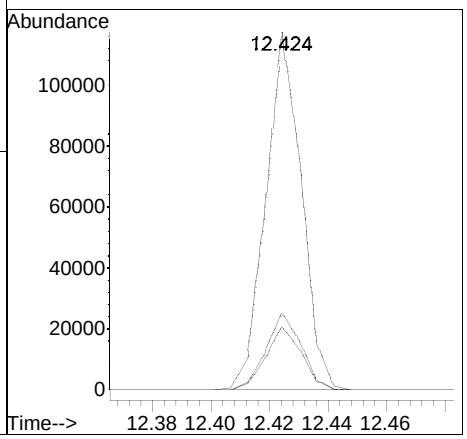


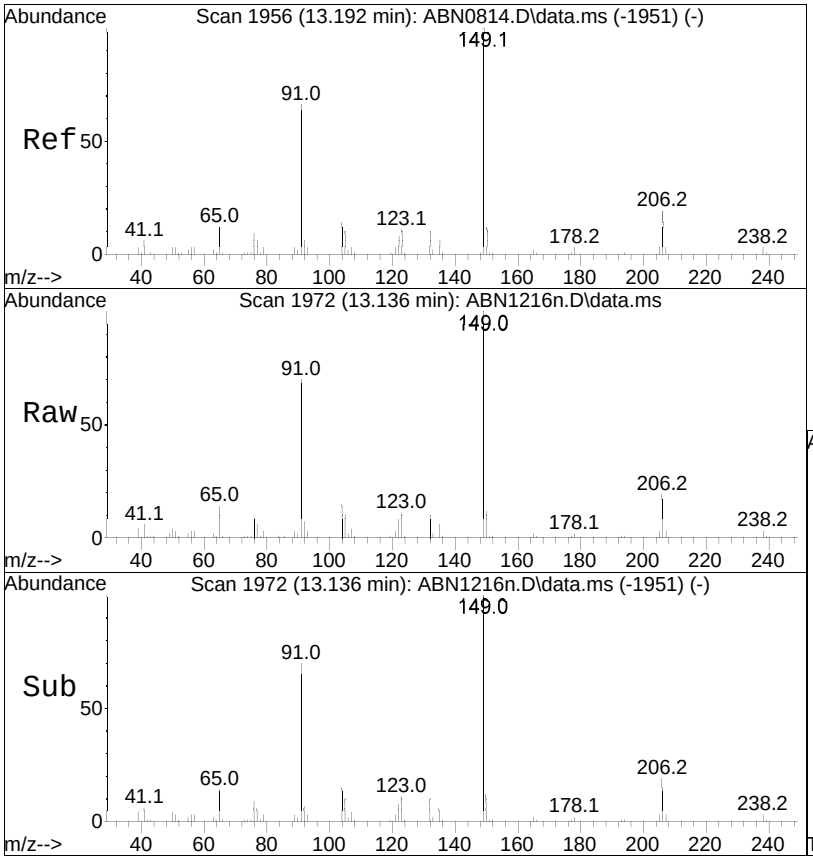


#95
Pyrene
Concen: 4.60 ug/ml
RT: 12.424 min Scan# 1851
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:202 Resp: 98011

Ion	Ratio	Lower	Upper
202	100		
200	21.4	16.7	25.1
203	17.8	14.2	21.4

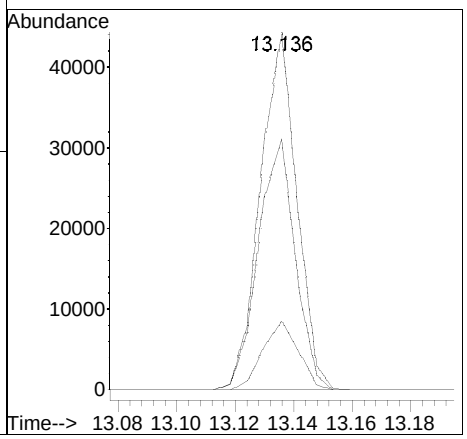


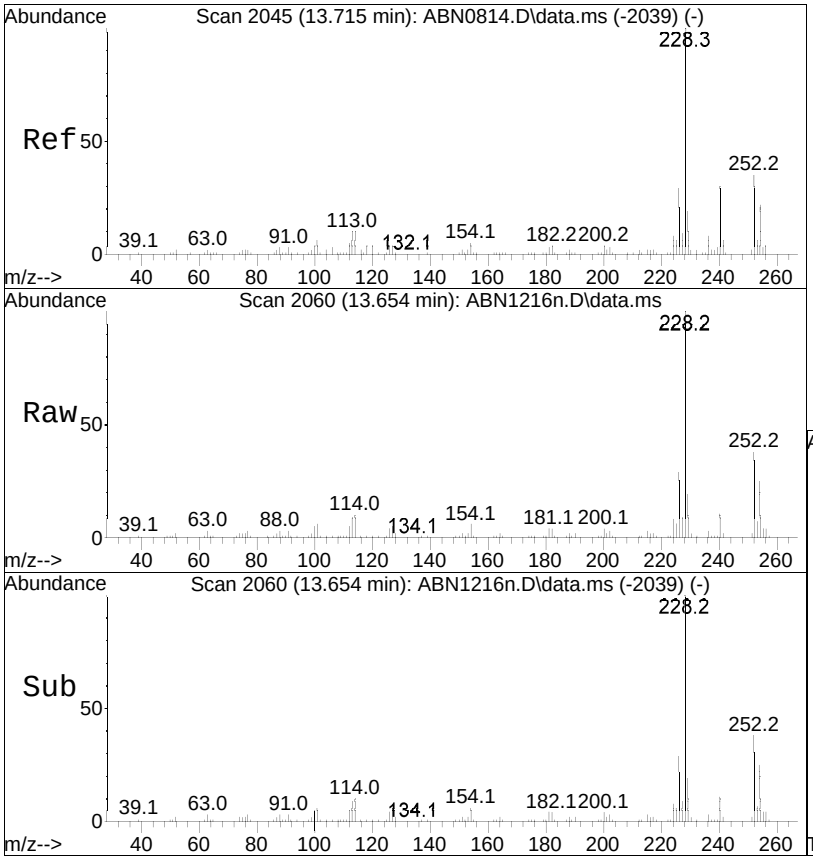


#97
Butyl benzyl phthalate
Concen: 4.36 ug/ml
RT: 13.136 min Scan# 1972
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:149 Resp: 37952

Ion	Ratio	Lower	Upper
149	100		
91	71.3	63.3	94.9
206	19.0	13.9	20.9

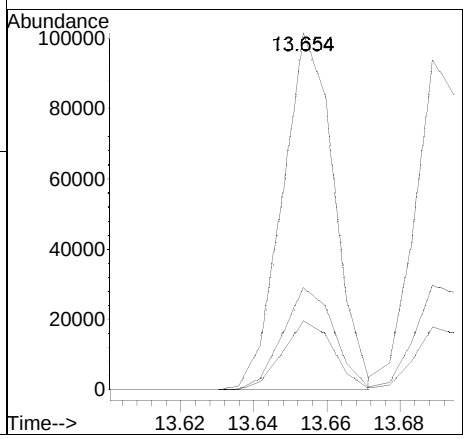


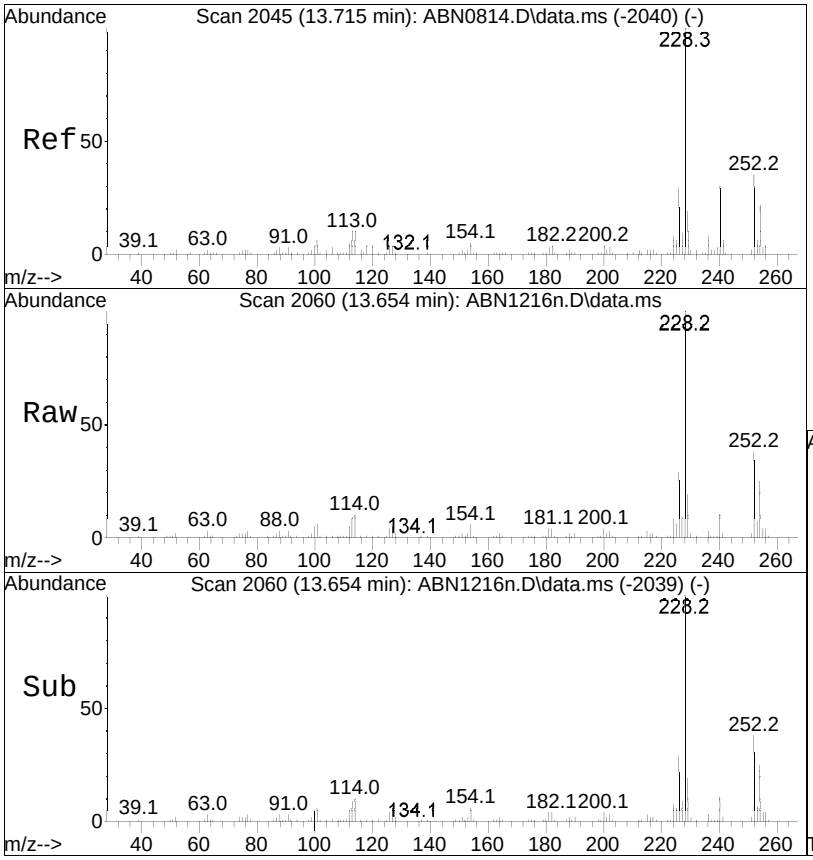


#105
Benzo(a)anthracene
Concen: 4.75 ug/ml
RT: 13.654 min Scan# 2060
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:228 Resp: 99467

Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.2	33.4
229	19.2	15.6	23.4

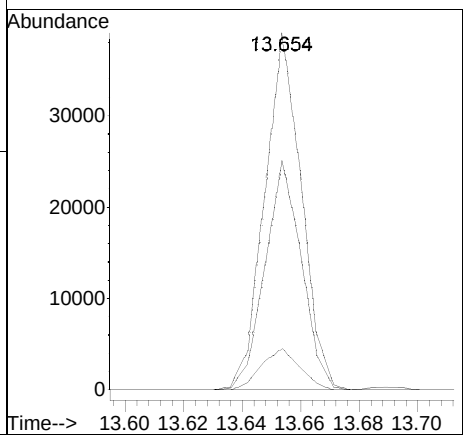


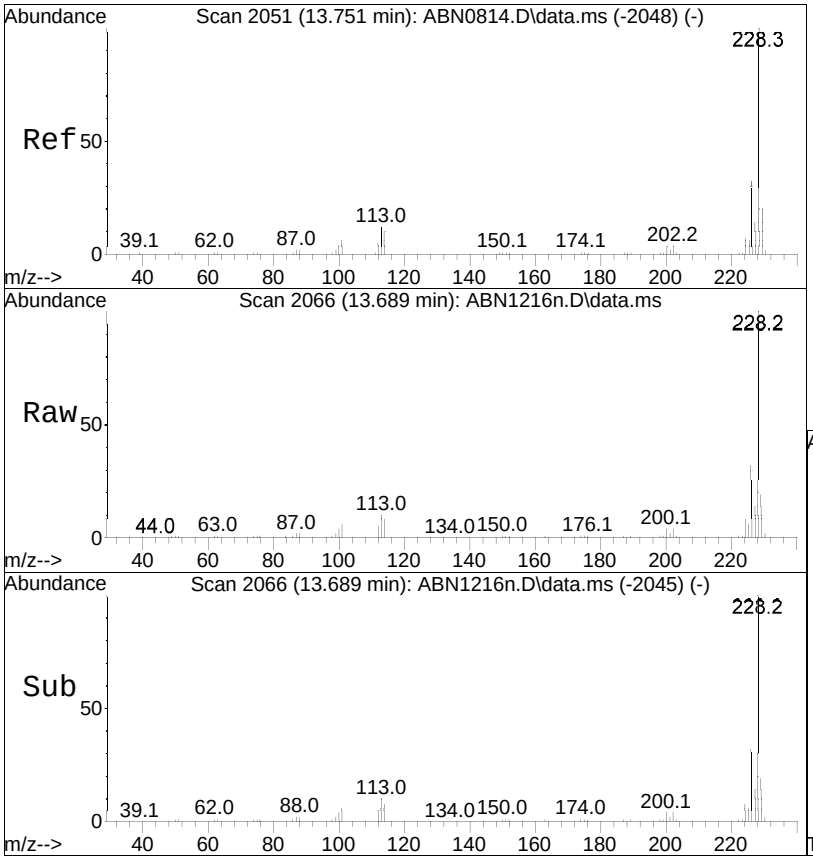


#106
3,3'-Dichlorobenzidine
Concen: 4.51 ug/ml
RT: 13.654 min Scan# 2060
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:252 Resp: 33810

Ion	Ratio	Lower	Upper
252	100		
126	12.3	14.5	21.7#
254	63.9	51.2	76.8

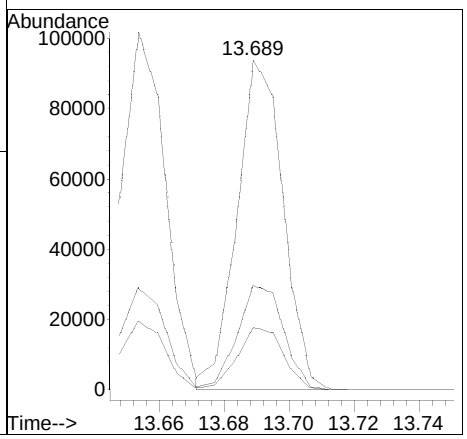


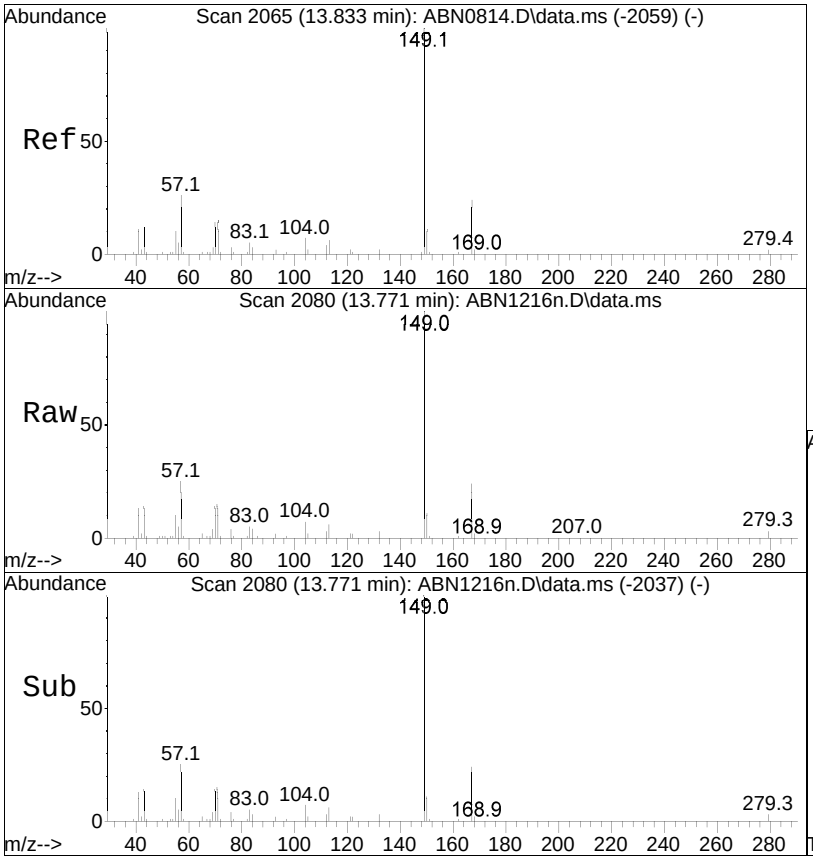


#107
Chrysene
Concen: 4.55 ug/ml
RT: 13.689 min Scan# 2066
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:228 Resp: 91849

Ion	Ratio	Lower	Upper
228	100		
226	31.9	24.0	36.0
229	19.1	15.8	23.8

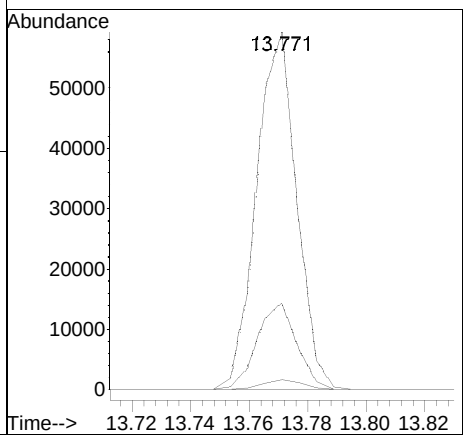


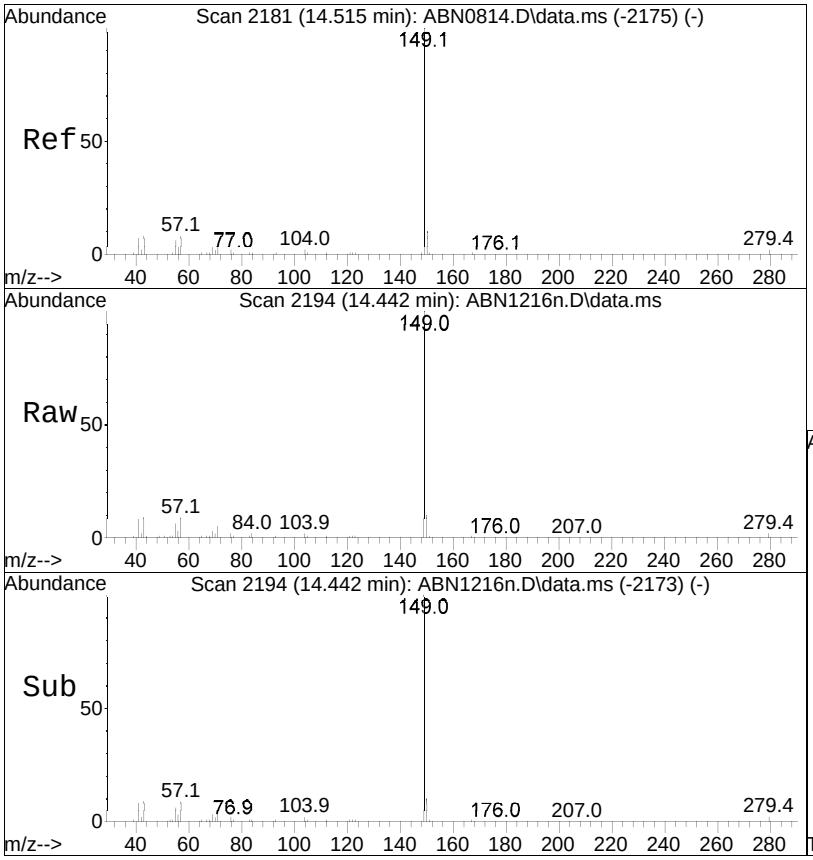


#108
Bis(2-ethylhexyl)phthalate
Concen: 4.95 ug/ml
RT: 13.771 min Scan# 2080
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:149 Resp: 55925

Ion	Ratio	Lower	Upper
149	100		
167	24.1	22.1	33.1
279	2.5	3.0	4.4#

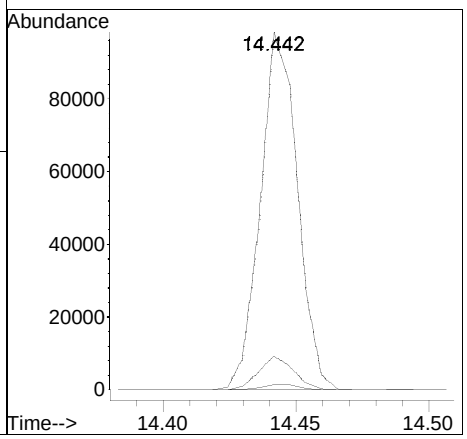


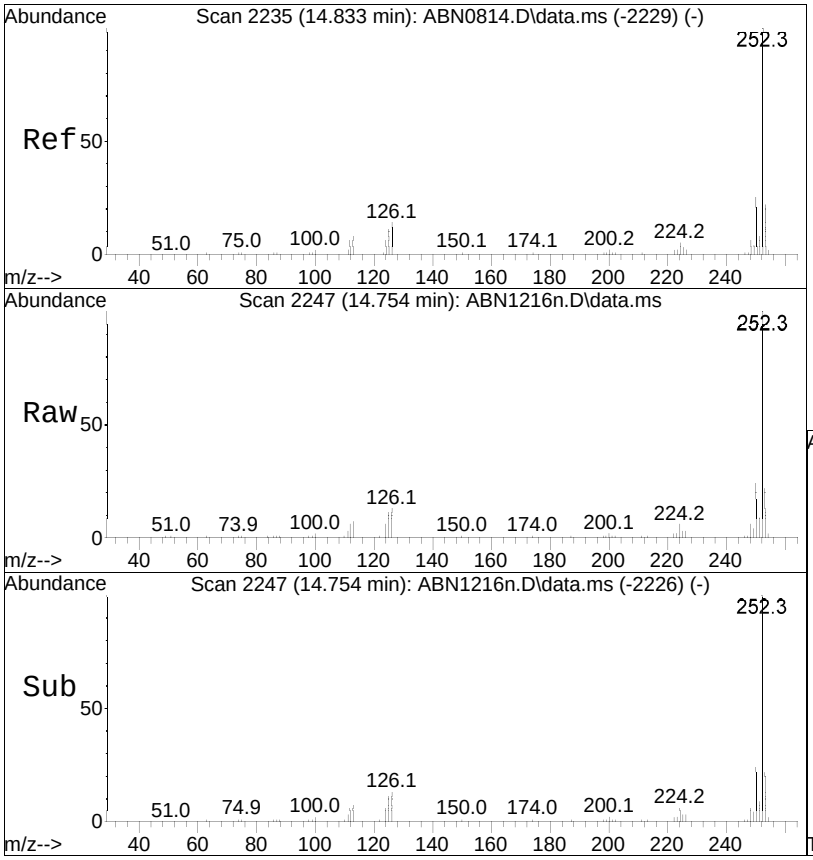


#109
Di-n-octylphthalate
Concen: 4.74 ug/ml
RT: 14.442 min Scan# 2194
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:149 Resp: 93877

Ion	Ratio	Lower	Upper
149	100		
43	8.9	18.8	28.2#
167	1.4	1.3	1.9

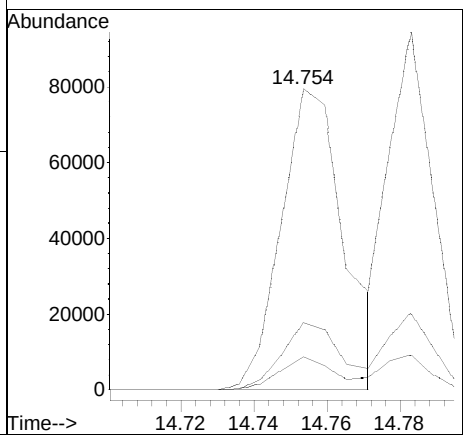


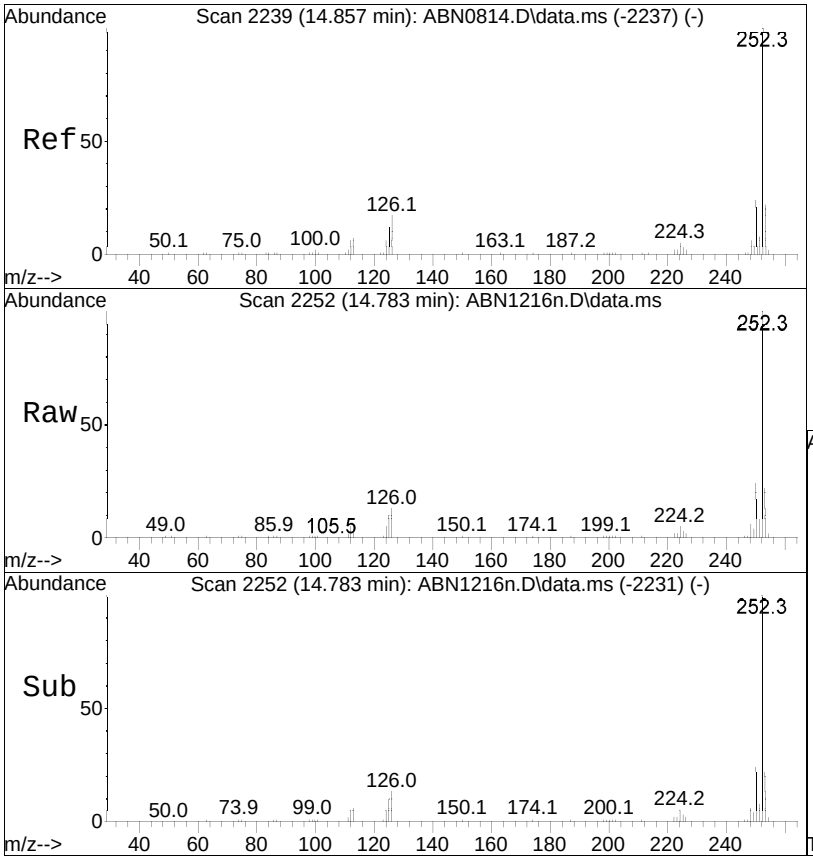


#110
Benzo(b)fluoranthene
Concen: 5.28 ug/ml
RT: 14.754 min Scan# 2247
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:252 Resp: 95114

Ion	Ratio	Lower	Upper
252	100		
125	9.3	13.3	19.9#
253	21.9	17.1	25.7

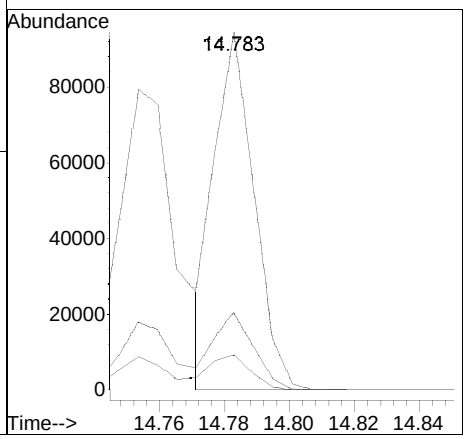


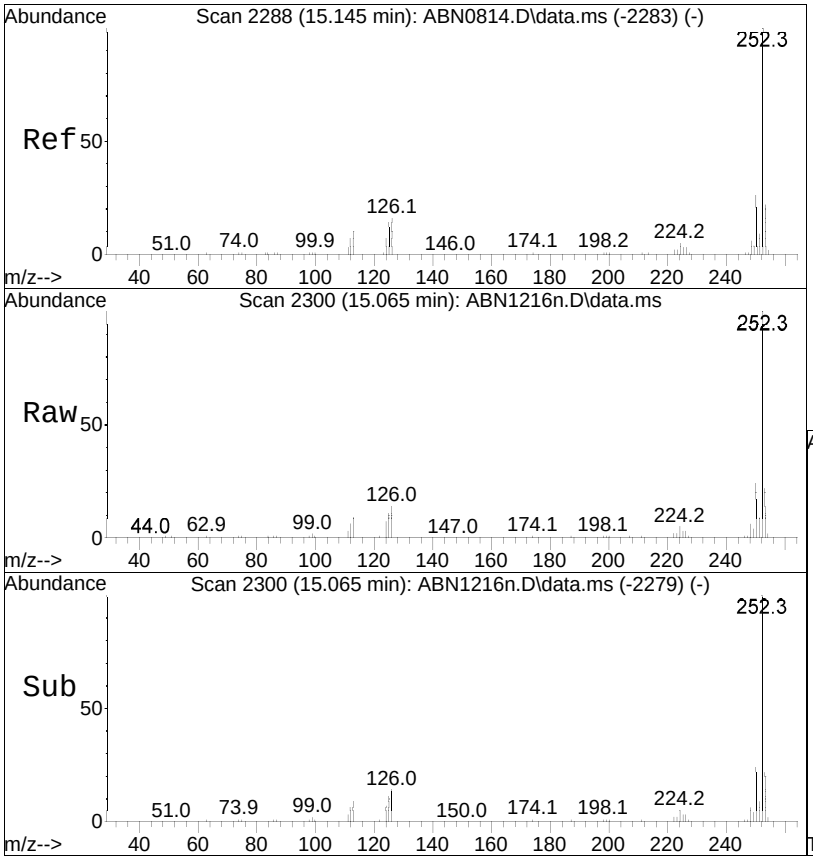


#111
Benzo(k)fluoranthene
Concen: 4.45 ug/ml
RT: 14.783 min Scan# 2252
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:252 Resp: 80184

Ion	Ratio	Lower	Upper
252	100		
125	11.1	13.0	19.6#
253	21.6	16.8	25.2

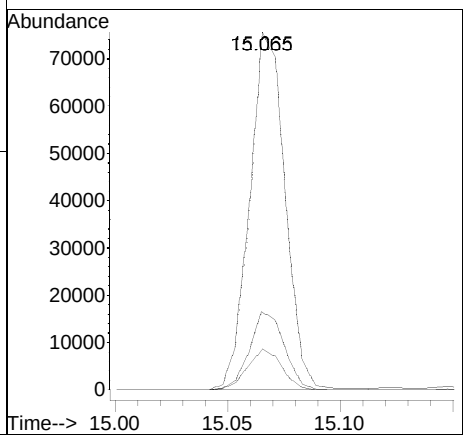


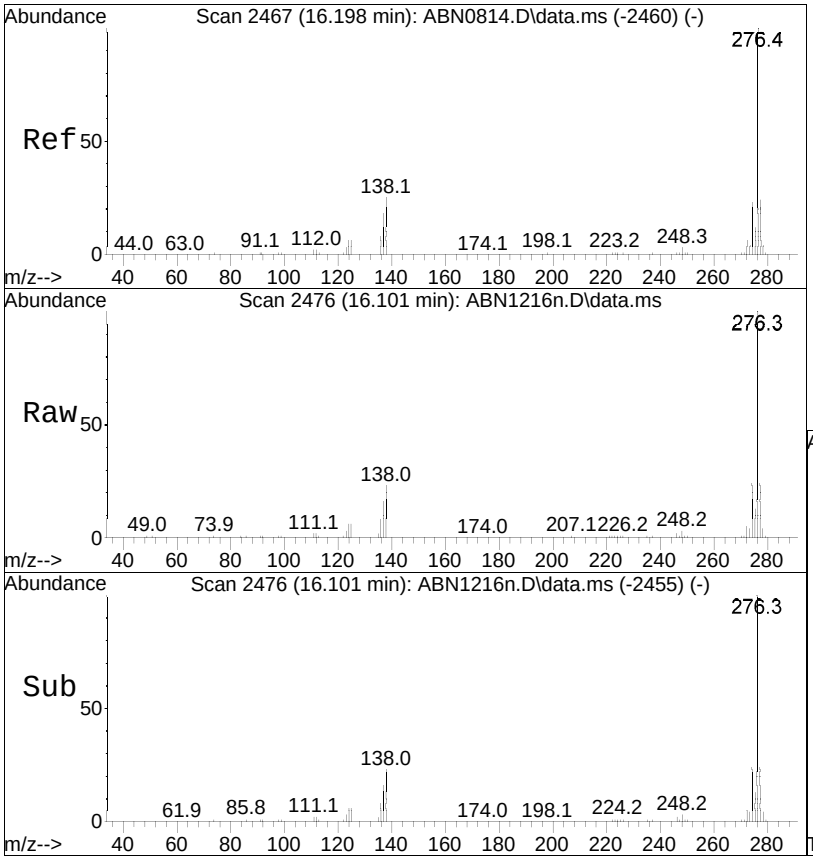


#112
Benzo(a)pyrene
Concen: 5.17 ug/ml
RT: 15.065 min Scan# 2300
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:252 Resp: 81953

Ion	Ratio	Lower	Upper
252	100		
125	11.1	14.2	21.2#
253	21.5	16.9	25.3

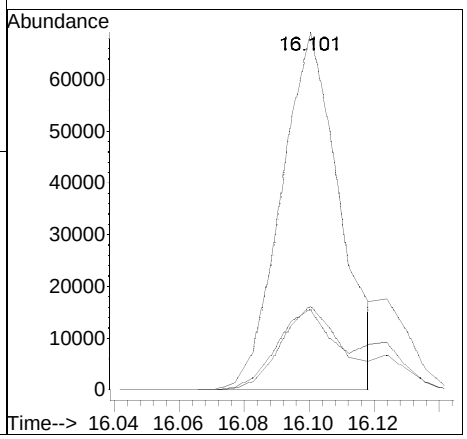


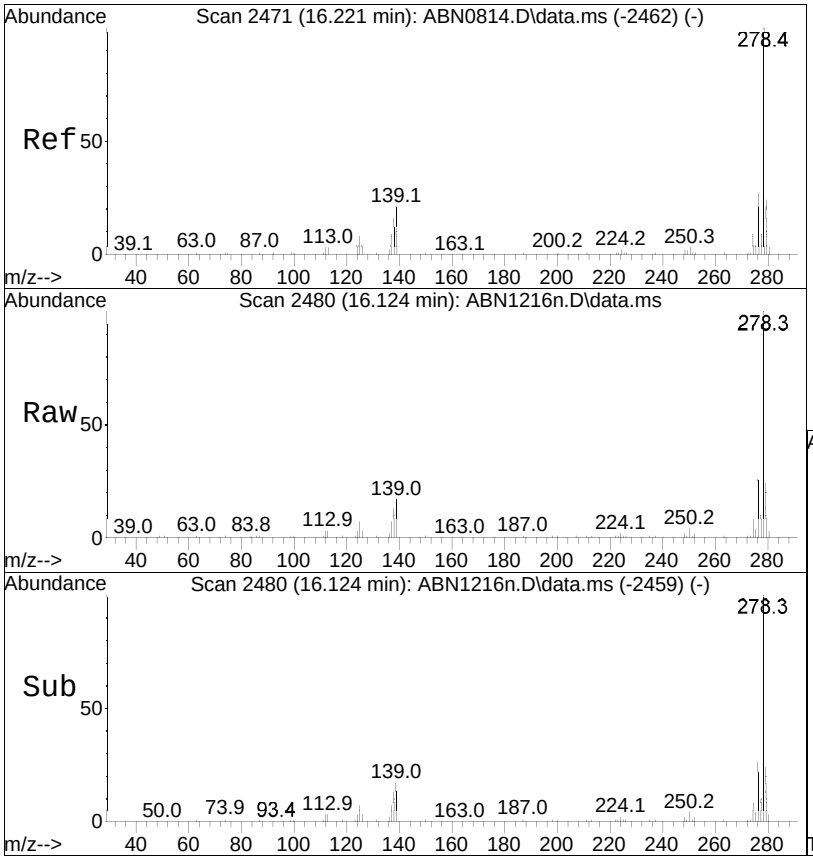


#114
Indeno(1,2,3-cd)pyrene
Concen: 5.24 ug/mL M6
RT: 16.101 min Scan# 2476
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:276 Resp: 86843

Ion	Ratio	Lower	Upper
276	100		
138	32.4	25.1	37.7
277	29.7	18.6	28.0#

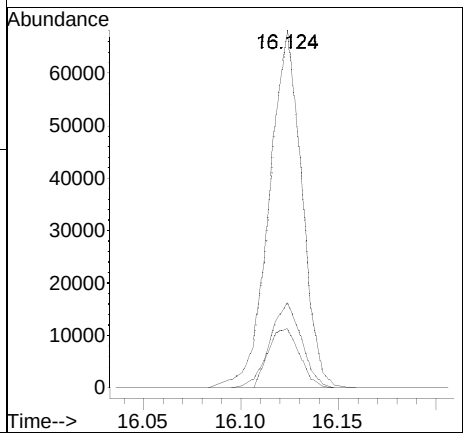


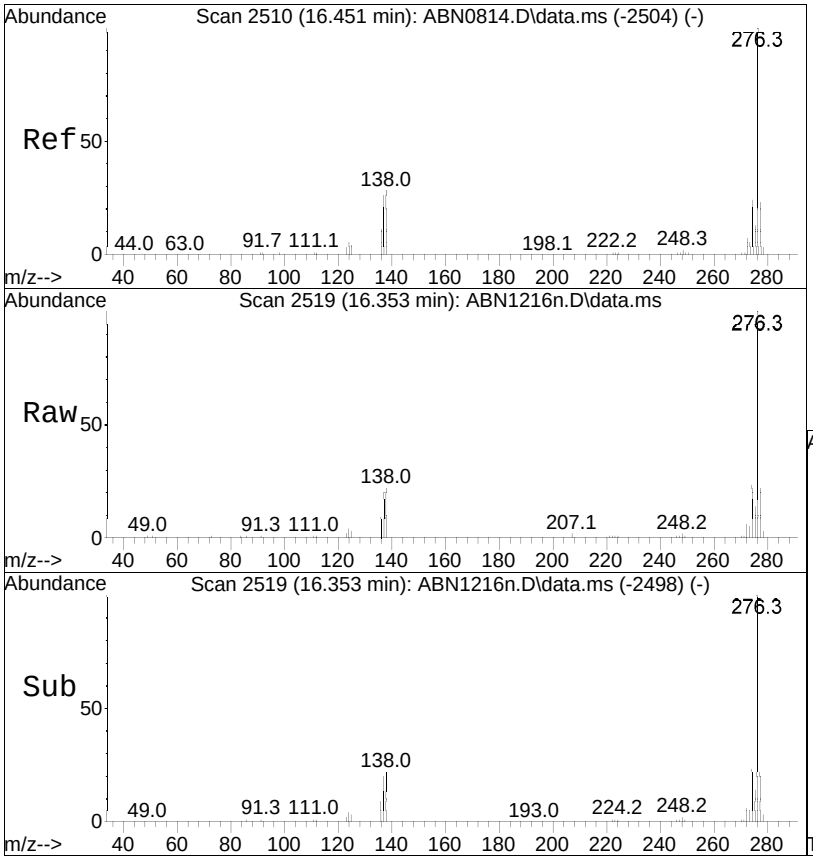


#115
Dibenzo(a,h)anthracene
Concen: 4.94 ug/ml
RT: 16.124 min Scan# 2480
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:278 Resp: 78653

Ion	Ratio	Lower	Upper
278	100		
139	16.0	20.8	31.2#
279	23.2	18.3	27.5

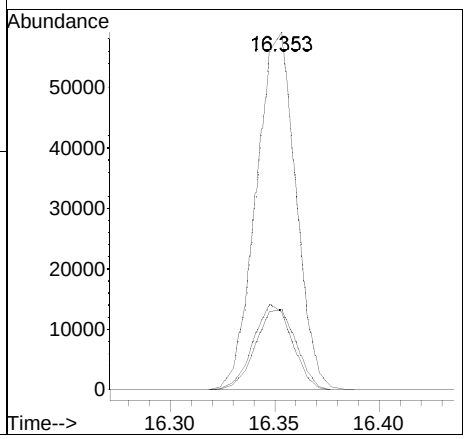




#116
Benzo(ghi)perylene
Concen: 5.25 ug/ml
RT: 16.353 min Scan# 2519
Delta R.T. 0.000 min
Lab File: ABN1216n.D
Acq: 16 Dec 2024 11:14 pm

Tgt Ion:276 Resp: 77418

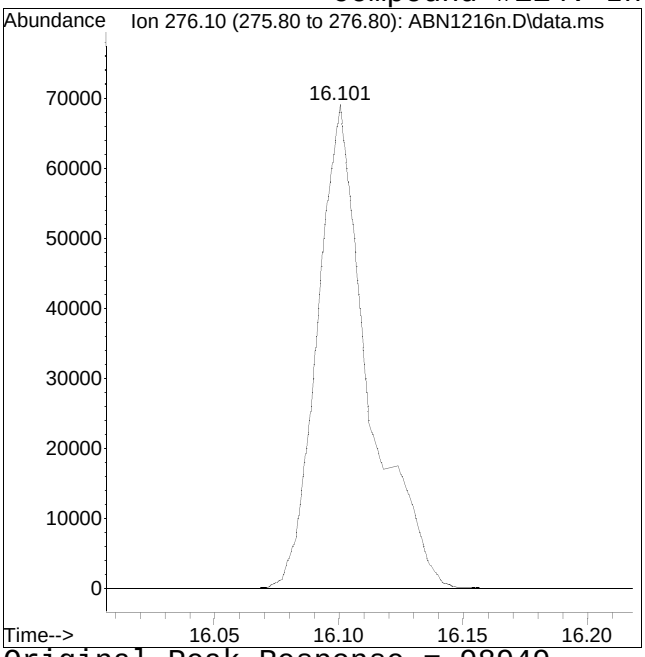
Ion	Ratio	Lower	Upper
276	100		
138	23.6	29.2	43.8#
277	23.2	18.8	28.2



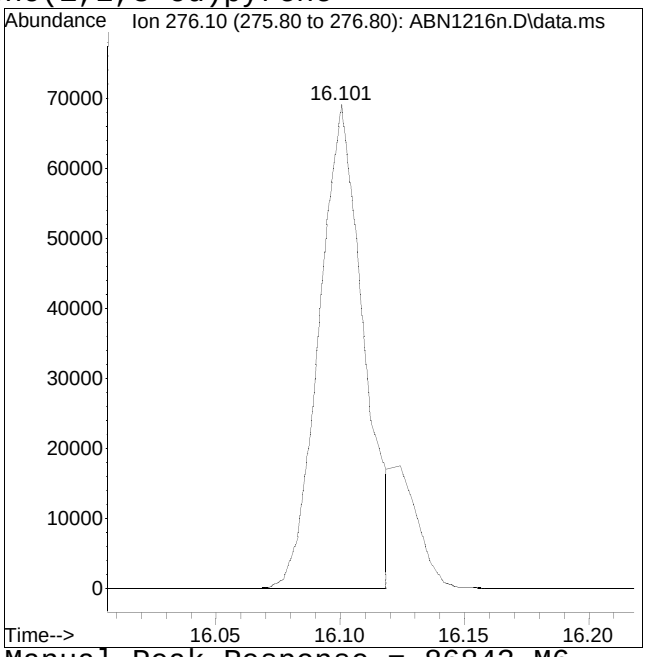
Manual Integration Report

Data Path : I:\8270\SV107\241216NRVT\ QMethod : FS240730SV107RVT.m
Data File : ABN1216n.D Operator : SV107:ljg
Date Inj'd : 12/16/2024 11:14 pm Instrument : SV107
Sample : WG2008657-3,32,,ABN RVT CCQuant Date : 12/16/2024 11:44 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 98949



Manual Peak Response = 86843 M6

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\241216NRVT\
Data File : AP91216n.D
Acq On : 16 Dec 2024 11:40 pm
Operator : SV107:ljg
Sample : WG2008657-4,32,,AP9 RVT CCV Lot # 10909
Misc : WG2008657,,ical21360
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Dec 17 00:08:39 2024
Quant Method : I:\8270\SV107\241216NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:10:13 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	110	0.00
28	T	Benzaldehyde		1.145	1.009	11.9	101	0.00
29	T	Acetophenone		2.032	1.786	12.1	101	0.00
30	T	m-Toluidine		1.860	1.673	10.1	97	0.00
31	T	2-Chloroaniline		1.773	1.544	12.9	96	0.00
55	I	IS2_Naphthalene-d8		1.000	1.000	0.0	101	0.00
56	T	a-Terpineol		0.297	0.307	-3.4	102	0.00
57	T	3-Chloroaniline		0.163	0.162	0.6	99	0.00
58	T	2,6-Dichlorophenol		0.319	0.311	2.5	95	0.00
59	T	1-chloro-2-nitrobenzene		0.155	0.151	2.6	99	0.00
60	T	Caprolactam	*	5.000	4.990	0.2	114	0.00
61	T	1,2,4,5-Tetrachlorobenzene		0.444	0.409	7.9	97	0.00
62	T	Biphenyl		1.036	0.823	20.6#	85	0.00
83	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	101	0.00
84	T	Dichloran	*	5.000	4.645	7.1	118	0.00
85	T	Pentachloronitrobenzene	*	5.000	5.192	-3.8	125	0.00
98	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	108	0.00
99	T	Diphenamid		0.507	0.482	4.9	107	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\SV107\241216NRVT\
Data File : AP91216n.D
Acq On : 16 Dec 2024 11:40 pm
Operator : SV107:ljg
Sample : WG2008657-4,32,,AP9 RVT CCV Lot # 10909
Misc : WG2008657,,ical21360
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Dec 17 00:08:39 2024
Quant Method : I:\8270\SV107\241216NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:10:13 2024
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...	6.425	152	17952	4.000	ug/ml		0.00
55) IS2_Naphthalene-d8	7.848	136	60982	4.000	ug/ml		0.00
83) IS2_Acenaphthene-d10	9.607	164	35583	4.000	ug/ml		0.00
98) IS2_Phenanthrene-d10	11.042	188	75212	4.000	ug/ml	#	0.00
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.854	105	22646	4.408	ug/ml		99
29) Acetophenone	6.919	105	40078	4.395	ug/ml	#	82
30) m-Toluidine	7.019	106	37545	4.498	ug/ml		94
31) 2-Chloroaniline	7.425	127	34637	4.354	ug/ml	#	94
56) a-Terpineol	7.919	59	23385	5.167	ug/ml	#	81
57) 3-Chloroaniline	7.930	65	12353	4.984	ug/ml		82
58) 2,6-Dichlorophenol	7.960	162	23679	4.861	ug/ml		90
59) 1-chloro-2-nitrobenzene	8.225	111	11494	4.864	ug/ml	#	1
60) Caprolactam	8.272	55	12921	4.990	ug/ml	#	72
61) 1,2,4,5-Tetrachloroben...	8.760	216	31164	4.602	ug/ml	#	97
62) Biphenyl	9.060	154	62716	3.972	ug/ml		98
84) Dichloran	10.736	206	8533	4.645	ug/ml	#	72
85) Pentachloronitrobenzene	10.889	237	9131	5.192	ug/ml	#	80
99) Diphenamid	11.942	167	45353	4.762	ug/ml	#	81

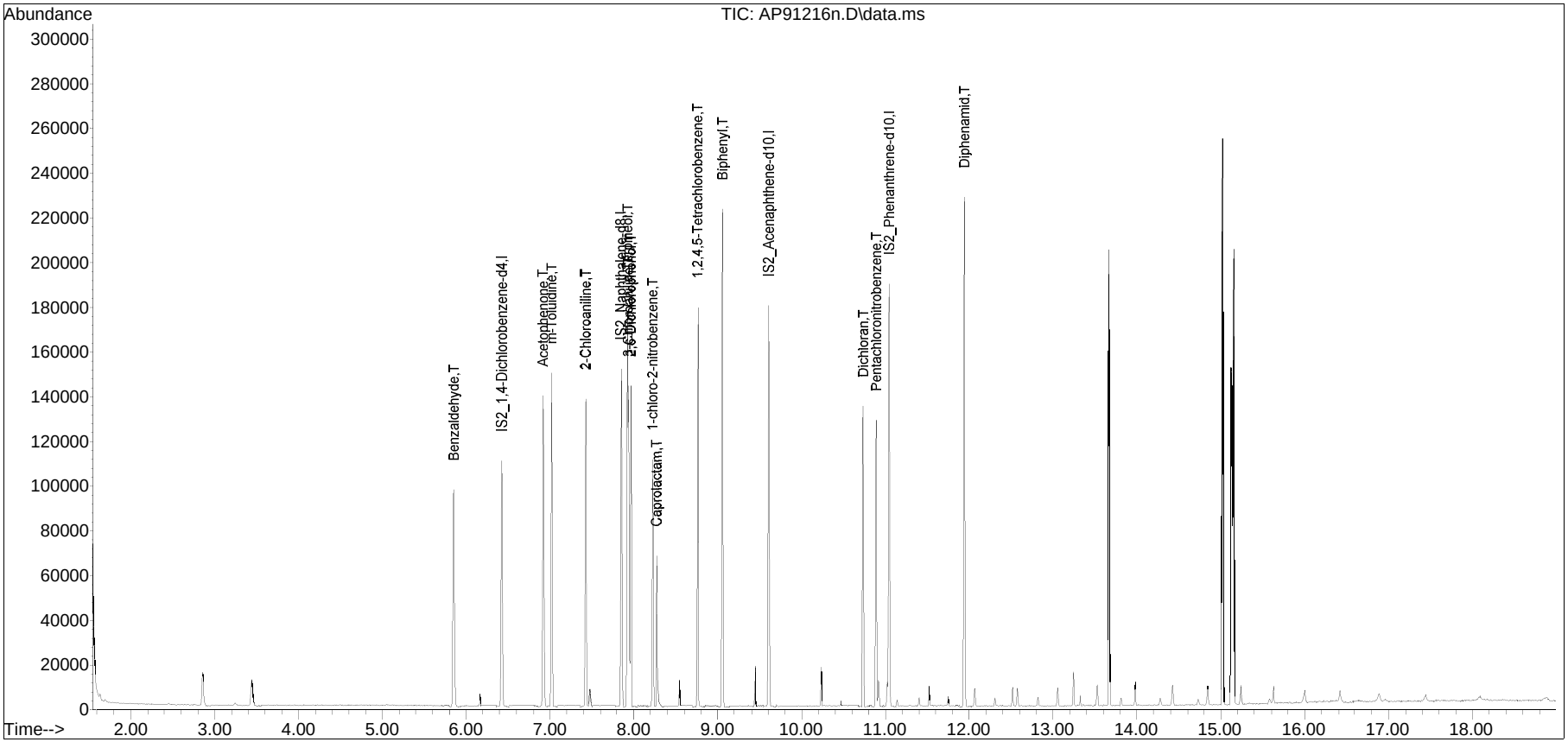
(#) = qualifier out of range (m) = manual integration (+) = signals summed

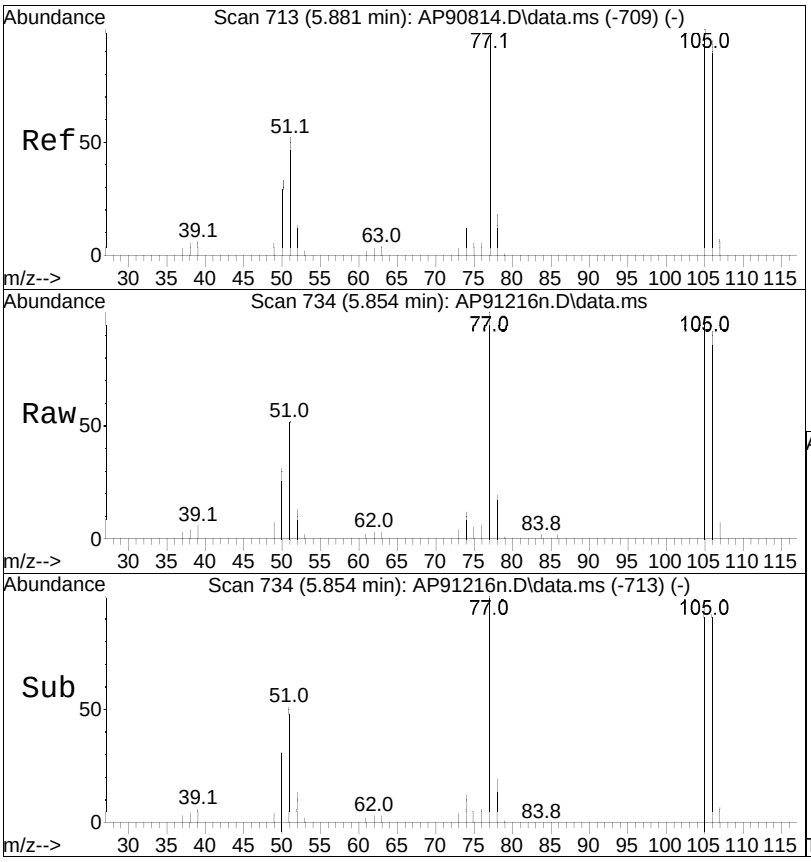
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\241216NRVT\
Data File : AP91216n.D
Acq On : 16 Dec 2024 11:40 pm
Operator : SV107:ljg
Sample : WG2008657-4,32,,AP9 RVT CCV Lot # 10909
Misc : WG2008657,,ical21360
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Dec 17 00:08:39 2024
Quant Method : I:\8270\SV107\241216NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:10:13 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

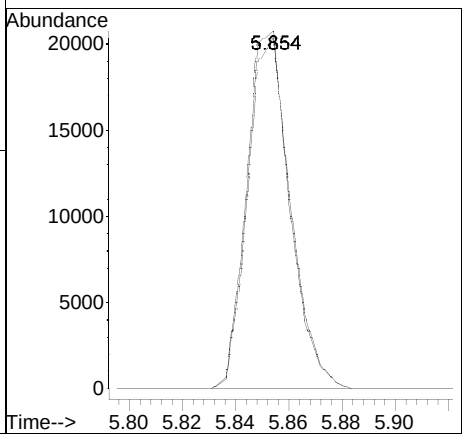


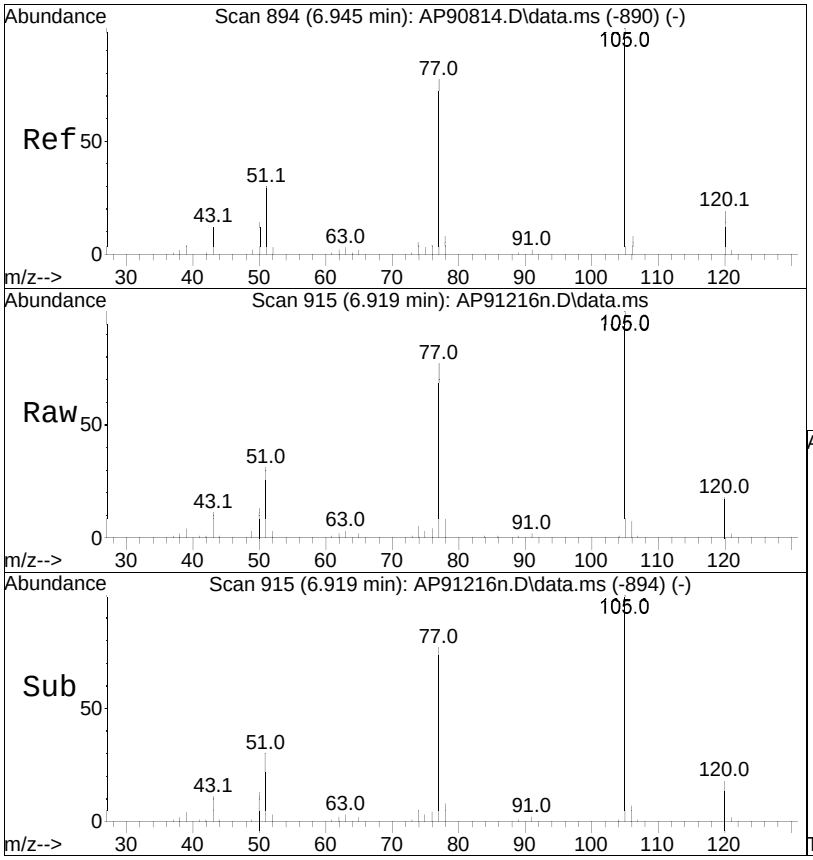


#28
Benzaldehyde
Concen: 4.41 ug/ml
RT: 5.854 min Scan# 734
Delta R.T. 0.000 min
Lab File: AP91216n.D
Acq: 16 Dec 2024 11:40 pm

Tgt Ion:105 Resp: 22646

Ion	Ratio	Lower	Upper
105	100		
77	102.1	82.2	123.4

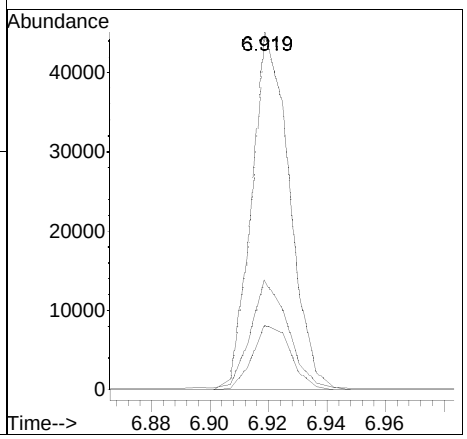


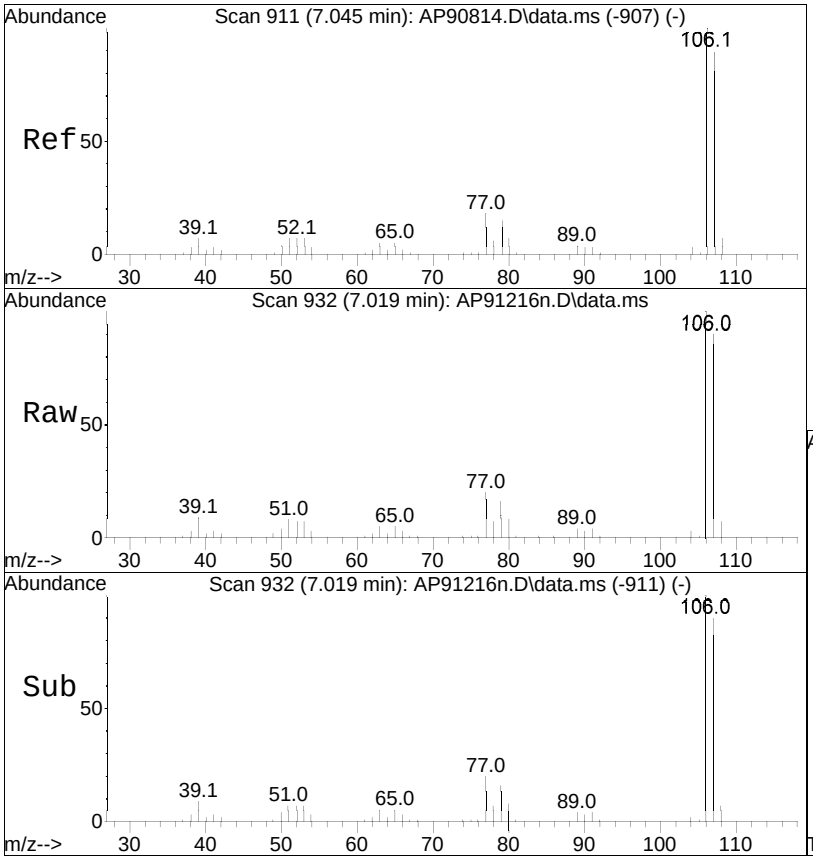


#29
Acetophenone
Concen: 4.40 ug/ml
RT: 6.919 min Scan# 915
Delta R.T. 0.000 min
Lab File: AP91216n.D
Acq: 16 Dec 2024 11:40 pm

Tgt Ion:105 Resp: 40078

Ion	Ratio	Lower	Upper
105	100		
120	18.5	20.5	30.7#
51	30.2	34.9	52.3#

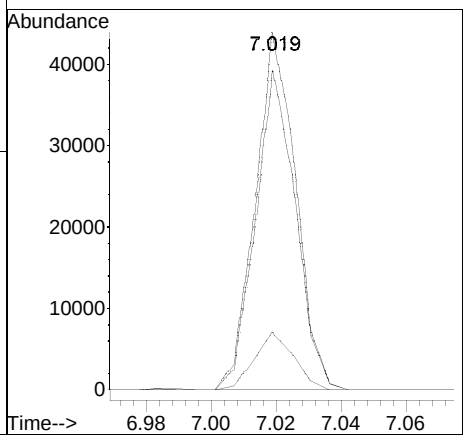


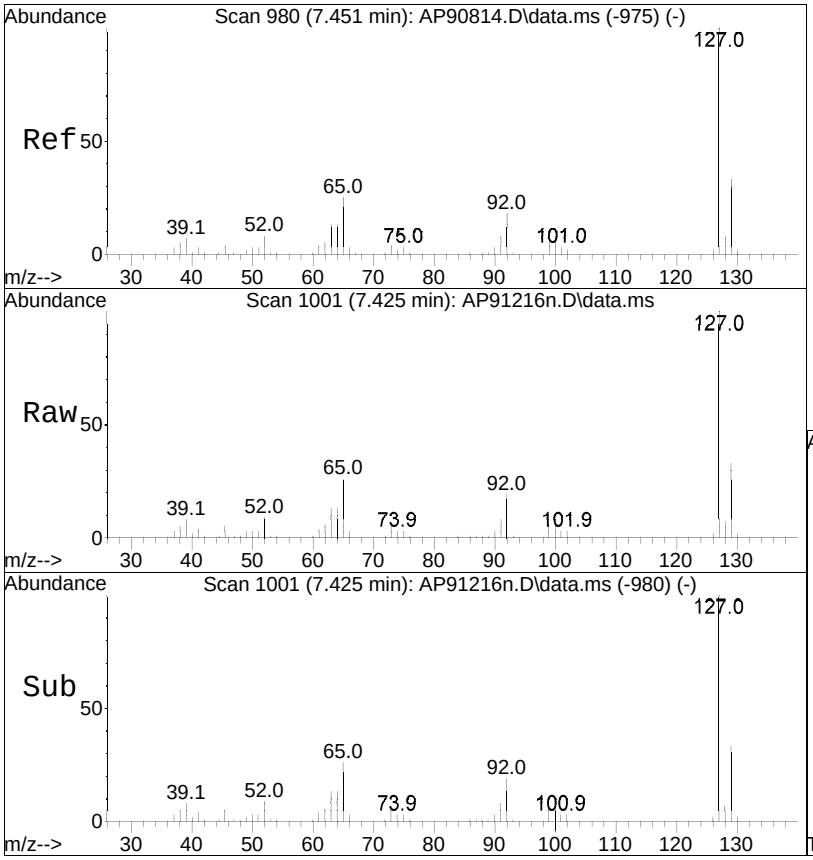


#30
m-Toluidine
Concen: 4.50 ug/ml
RT: 7.019 min Scan# 932
Delta R.T. 0.000 min
Lab File: AP91216n.D
Acq: 16 Dec 2024 11:40 pm

Tgt Ion:106 Resp: 37545

Ion	Ratio	Lower	Upper
106	100		
107	88.5	75.7	113.5
79	15.8	11.8	17.8

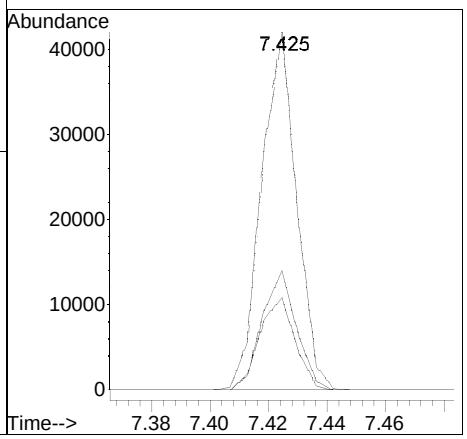


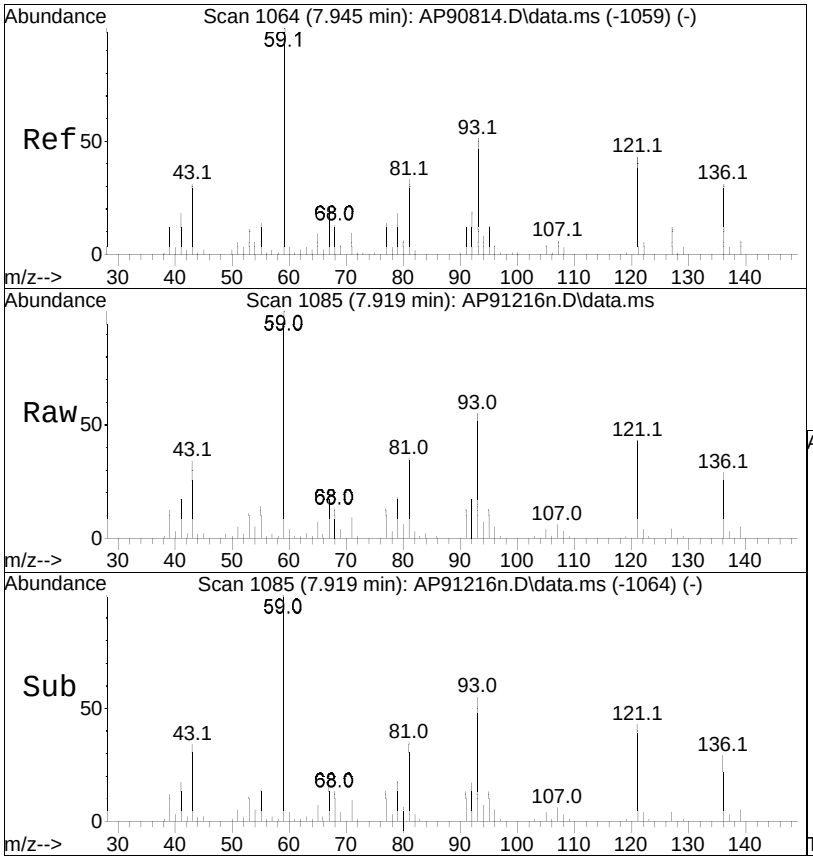


#31
2-Chloroaniline
Concen: 4.35 ug/ml
RT: 7.425 min Scan# 1001
Delta R.T. 0.000 min
Lab File: AP91216n.D
Acq: 16 Dec 2024 11:40 pm

Tgt Ion:127 Resp: 34637

Ion	Ratio	Lower	Upper
127	100		
129	32.7	25.9	38.9
65	26.2	26.3	39.5#

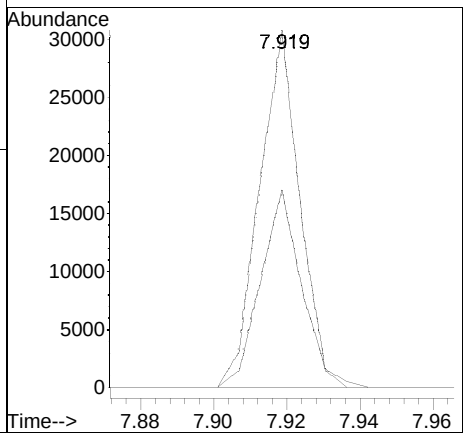


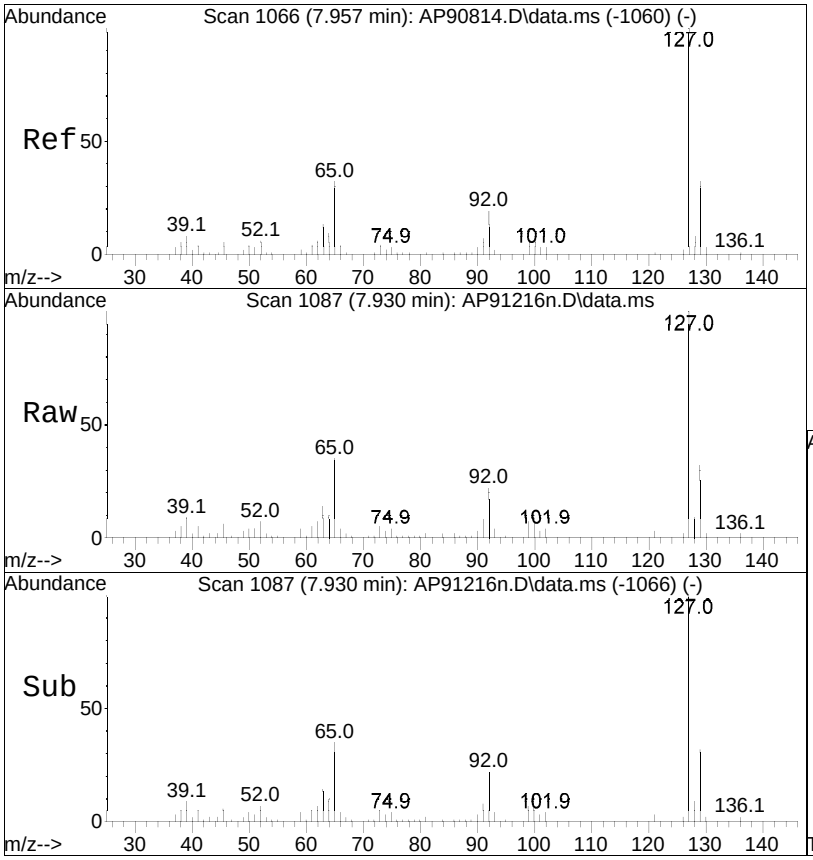


#56
a-Terpineol
Concen: 5.17 ug/ml
RT: 7.919 min Scan# 1085
Delta R.T. 0.000 min
Lab File: AP91216n.D
Acq: 16 Dec 2024 11:40 pm

Tgt Ion: 59 Resp: 23385

Ion	Ratio	Lower	Upper
59	100		
93	56.9	35.6	53.4#

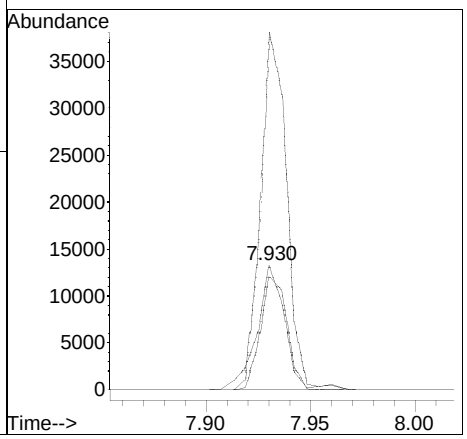


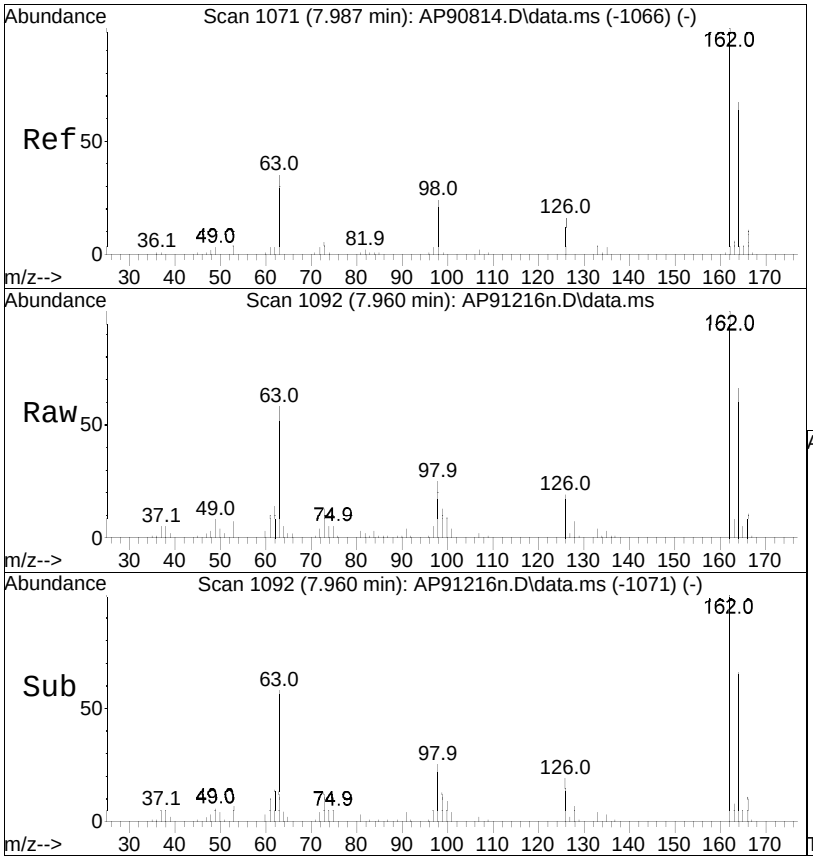


#57
3-Chloroaniline
Concen: 4.98 ug/ml
RT: 7.930 min Scan# 1087
Delta R.T. 0.000 min
Lab File: AP91216n.D
Acq: 16 Dec 2024 11:40 pm

Tgt Ion: 65 Resp: 12353

Ion	Ratio	Lower	Upper
65	100		
127	264.0	243.2	364.8
129	86.2	78.8	118.2

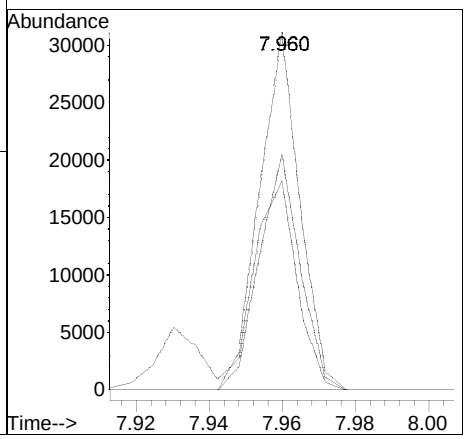


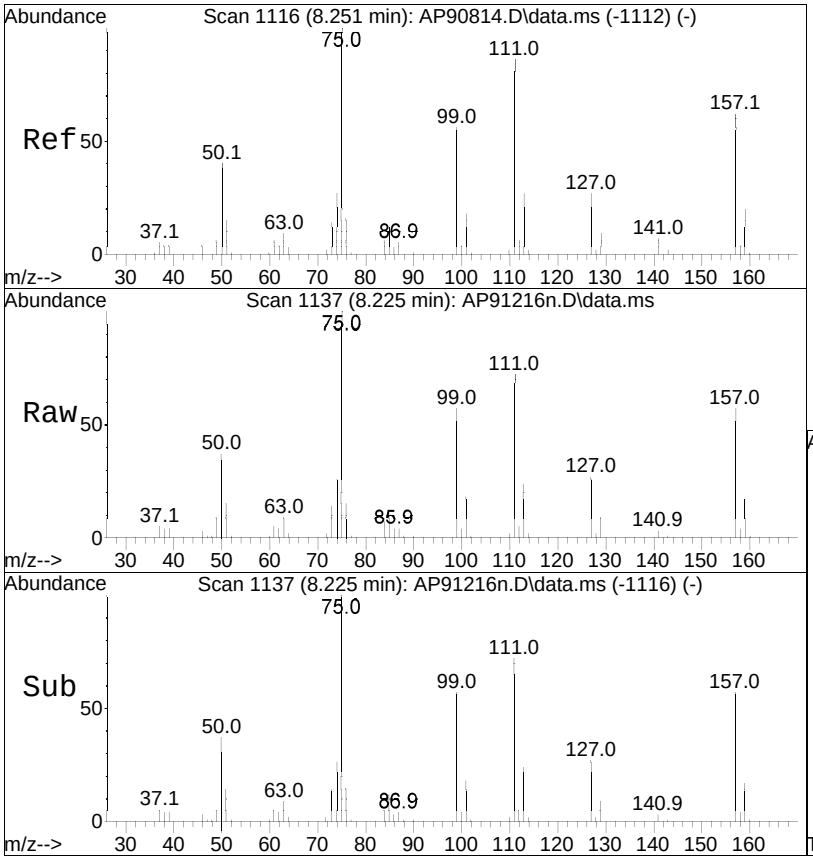


#58
2,6-Dichlorophenol
Concen: 4.86 ug/ml
RT: 7.960 min Scan# 1092
Delta R.T. 0.000 min
Lab File: AP91216n.D
Acq: 16 Dec 2024 11:40 pm

Tgt Ion:162 Resp: 23679

Ion	Ratio	Lower	Upper
162	100		
164	66.5	51.1	76.7
63	61.9	60.8	91.2

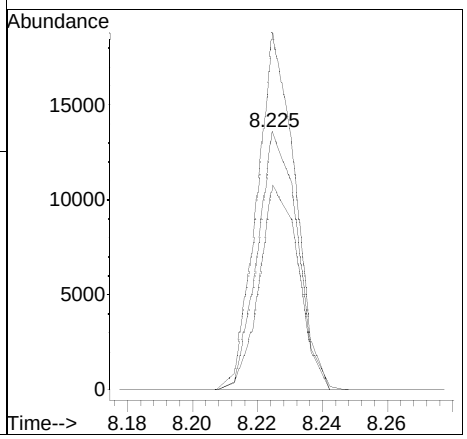


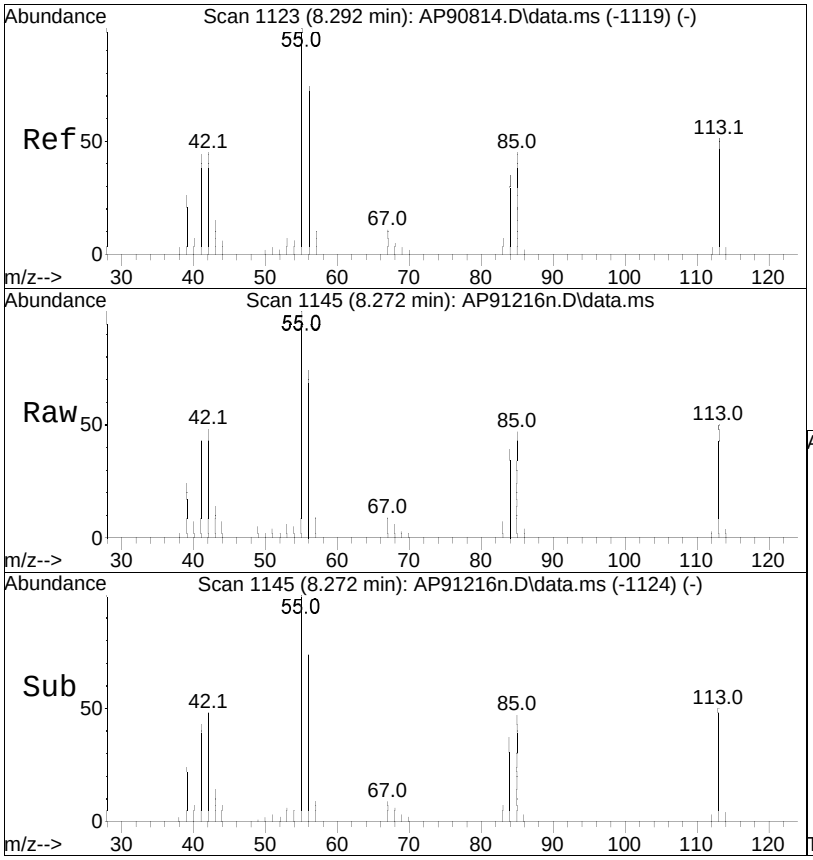


#59
1-chloro-2-nitrobenzene
Concen: 4.86 ug/ml
RT: 8.225 min Scan# 1137
Delta R.T. 0.000 min
Lab File: AP91216n.D
Acq: 16 Dec 2024 11:40 pm

Tgt Ion:111 Resp: 11494

Ion	Ratio	Lower	Upper
111	100		
157	78.1	0.0	0.0#
75	132.1	28.2	42.2#

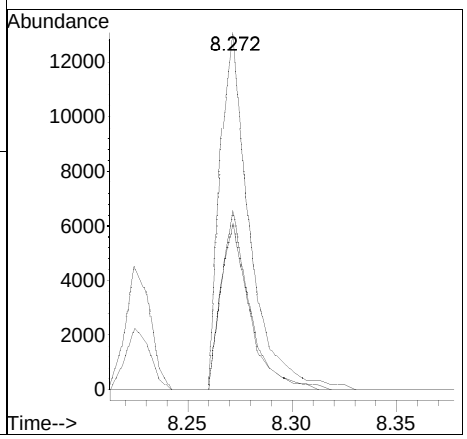


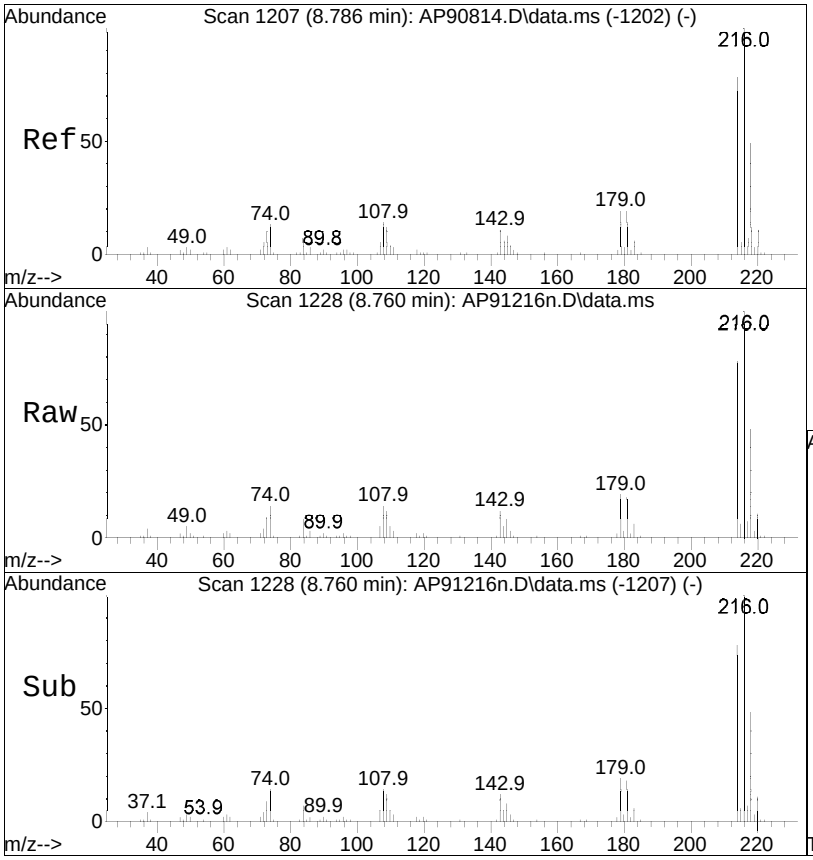


#60
Caprolactam
Concen: 4.99 ug/ml
RT: 8.272 min Scan# 1145
Delta R.T. 0.000 min
Lab File: AP91216n.D
Acq: 16 Dec 2024 11:40 pm

Tgt Ion: 55 Resp: 12921

Ion	Ratio	Lower	Upper
55	100		
85	46.1	19.8	29.6#
113	47.6	29.6	44.4#

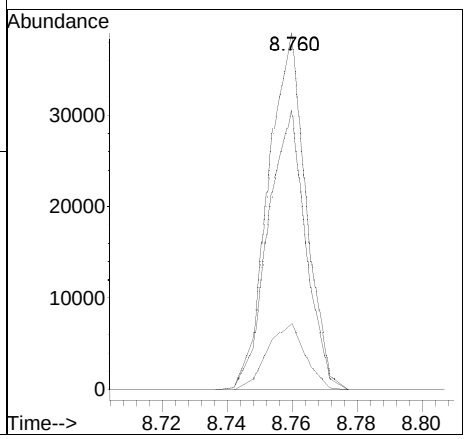


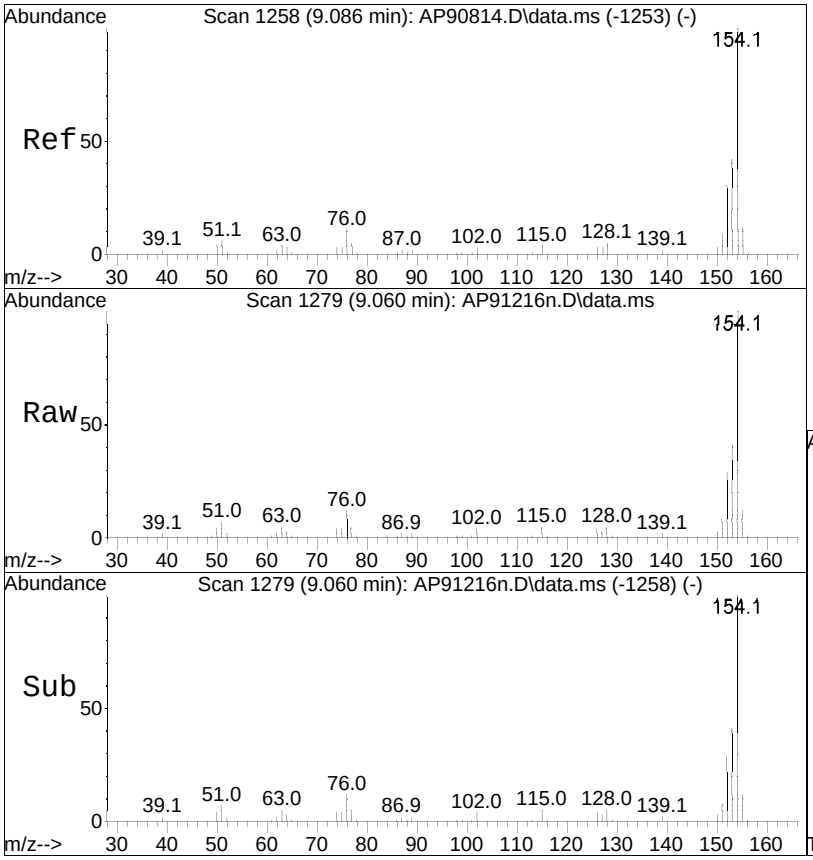


#61
1,2,4,5-Tetrachlorobenzene
Concen: 4.60 ug/ml
RT: 8.760 min Scan# 1228
Delta R.T. 0.000 min
Lab File: AP91216n.D
Acq: 16 Dec 2024 11:40 pm

Tgt Ion:216 Resp: 31164

Ion	Ratio	Lower	Upper
216	100		
214	78.8	63.7	95.5
179	18.9	19.0	28.6#

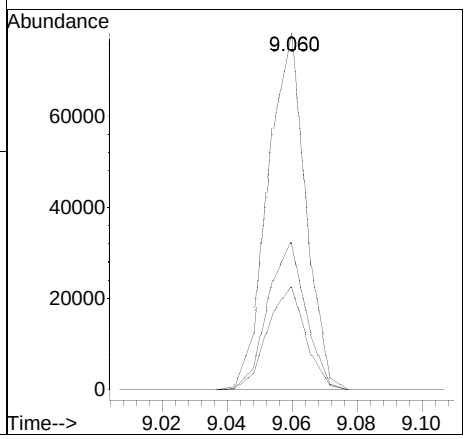


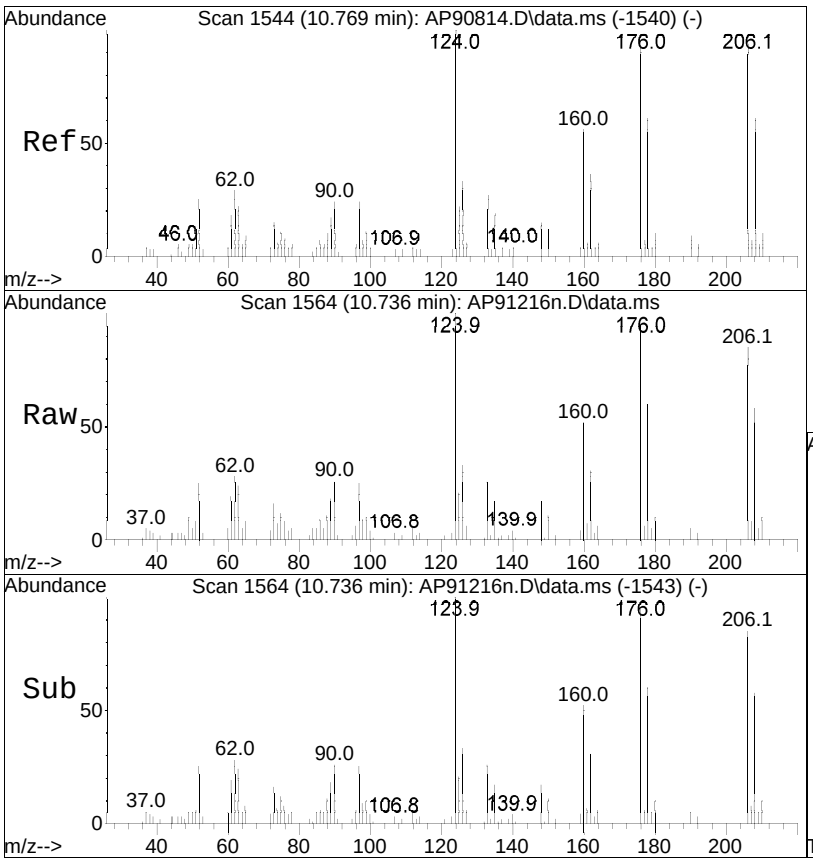


#62
Biphenyl
Concen: 3.97 ug/ml
RT: 9.060 min Scan# 1279
Delta R.T. 0.000 min
Lab File: AP91216n.D
Acq: 16 Dec 2024 11:40 pm

Tgt Ion:154 Resp: 62716

Ion	Ratio	Lower	Upper
154	100		
153	41.7	32.3	48.5
152	29.3	22.5	33.7

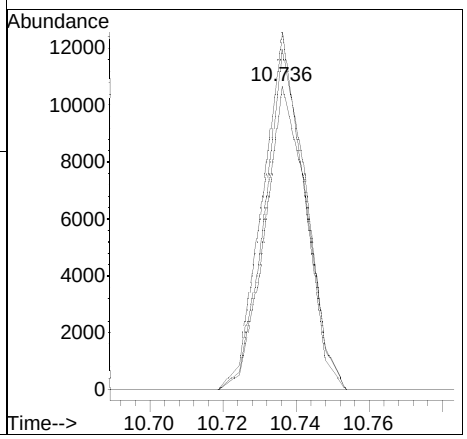


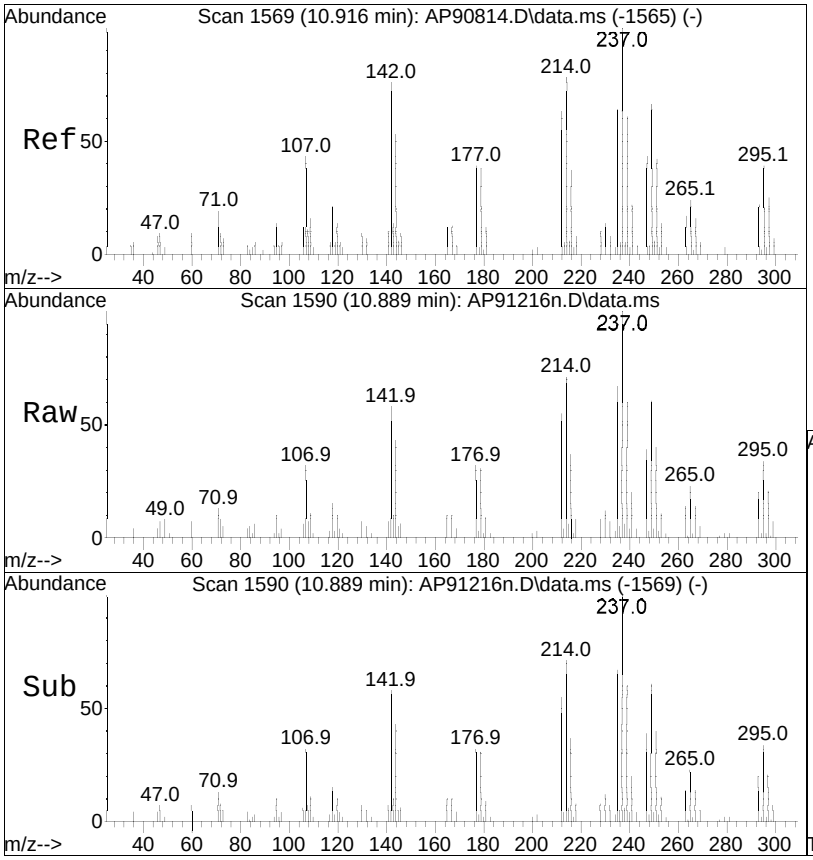


#84
Dichloran
Concen: 4.65 ug/ml
RT: 10.736 min Scan# 1564
Delta R.T. 0.000 min
Lab File: AP91216n.D
Acq: 16 Dec 2024 11:40 pm

Tgt Ion:206 Resp: 8533

Ion	Ratio	Lower	Upper
206	100		
176	109.6	104.6	157.0
124	114.1	130.5	195.7#

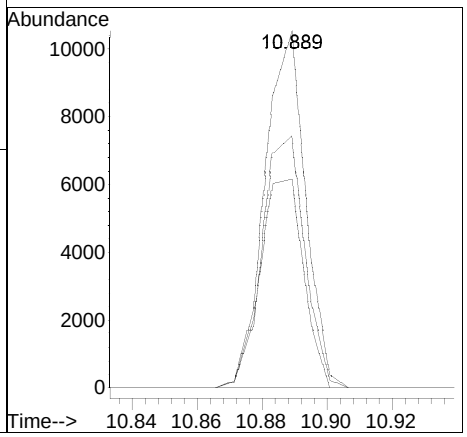


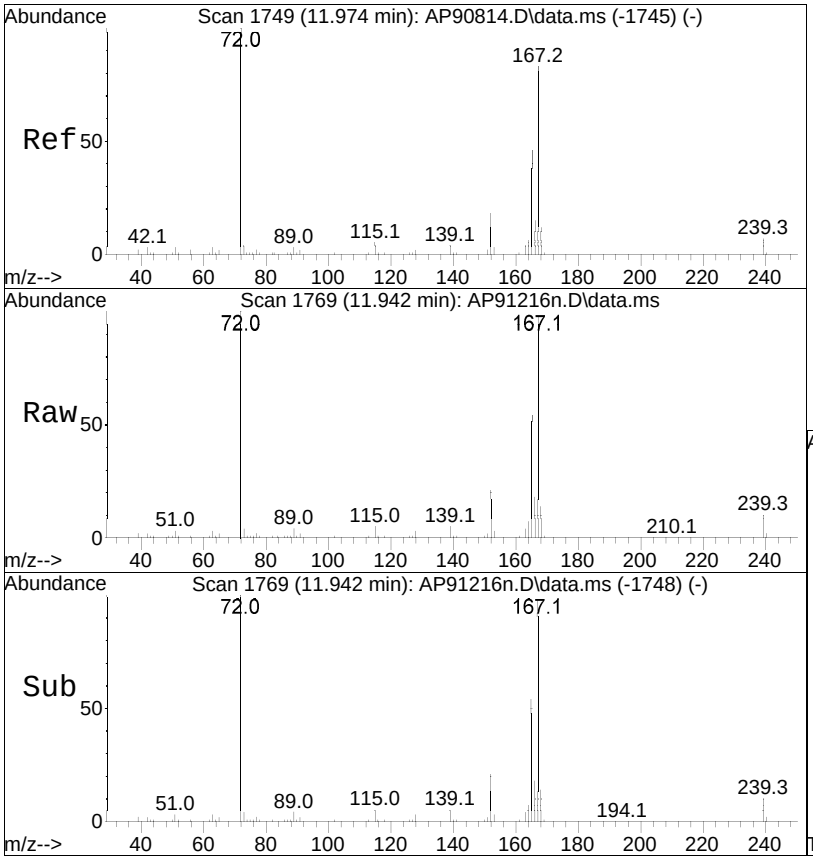


#85
Pentachloronitrobenzene
Concen: 5.19 ug/ml
RT: 10.889 min Scan# 1590
Delta R.T. 0.000 min
Lab File: AP91216n.D
Acq: 16 Dec 2024 11:40 pm

Tgt Ion:237 Resp: 9131

Ion	Ratio	Lower	Upper
237	100		
142	63.0	77.0	115.4#
214	74.0	58.2	87.4

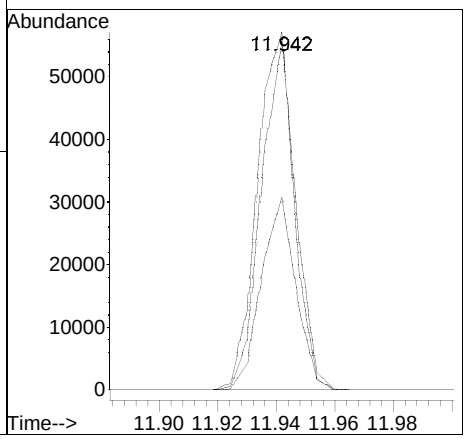




#99
Diphenamid
Concen: 4.76 ug/ml
RT: 11.942 min Scan# 1769
Delta R.T. 0.000 min
Lab File: AP91216n.D
Acq: 16 Dec 2024 11:40 pm

Tgt Ion:167 Resp: 45353

Ion	Ratio	Lower	Upper
167	100		
72	108.2	109.7	164.5#
165	55.4	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\SV107\241216NRVT\	QMethod	: FS240730SV107RVT.m
Data File	: AP91216n.D	Operator	: SV107:ljg
Date Inj'd	: 12/16/2024 11:40 pm	Instrument	: SV107
Sample	: WG2008657-4,32,,AP9 RVT CC	Quant Date	: 12/17/2024 0:10 am

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\241216NRVT\
Data File : ADP1216n.D
Acq On : 17 Dec 2024 12:06 am
Operator : SV107:ljg
Sample : WG2008657-5,32,,ADP RVT CCV Lot # 10751
Misc : WG2008657,,ical21360
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Dec 17 00:28:18 2024
Quant Method : I:\8270\SV107\241216NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:29:51 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	117	0.00
33		1,4-Dioxane		0.459	0.451	1.7	131	0.00
34	T	n-Decane		1.388	1.423	-2.5	131	0.00
86	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	109	0.00
87	T	Atrazine		0.315	0.375	-19.0	130	0.00
100	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	115	0.00
101	T	n-Octadecane		0.381	0.377	1.0	116	0.00
102	T	Parathion	*	5.000	6.757	-35.1#	193	0.00
103	T	3,3'-Dimethylbenzidine	*	5.000	4.049	19.0	118	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\SV107\241216NRVT\
Data File : ADP1216n.D
Acq On : 17 Dec 2024 12:06 am
Operator : SV107:ljg
Sample : WG2008657-5,32,,ADP RVT CCV Lot # 10751
Misc : WG2008657,,ical21360
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Dec 17 00:28:18 2024
Quant Method : I:\8270\SV107\241216NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:29:51 2024
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...	6.425	152	20785	4.000	ug/ml		0.00
86)	IS3_Acenaphthene-d10	9.607	164	40587	4.000	ug/ml		0.00
100)	IS3_Phenanthrene-d10	11.036	188	86632	4.000	ug/ml	#	0.00
	System Monitoring Compounds							
	Target Compounds							Qvalue
33)	1,4-Dioxane	1.866	88	11727	4.913	ug/ml	#	81
34)	n-Decane	6.313	57	36966	5.124	ug/ml	#	45
87)	Atrazine	10.813	200	19020	5.958	ug/ml		95
101)	n-Octadecane	11.013	57	40852	4.947	ug/ml	#	1
102)	Parathion	11.819	109	11935	6.757	ug/ml		95
103)	3,3'-Dimethylbenzidine	13.101	212	60079	4.049	ug/ml		98

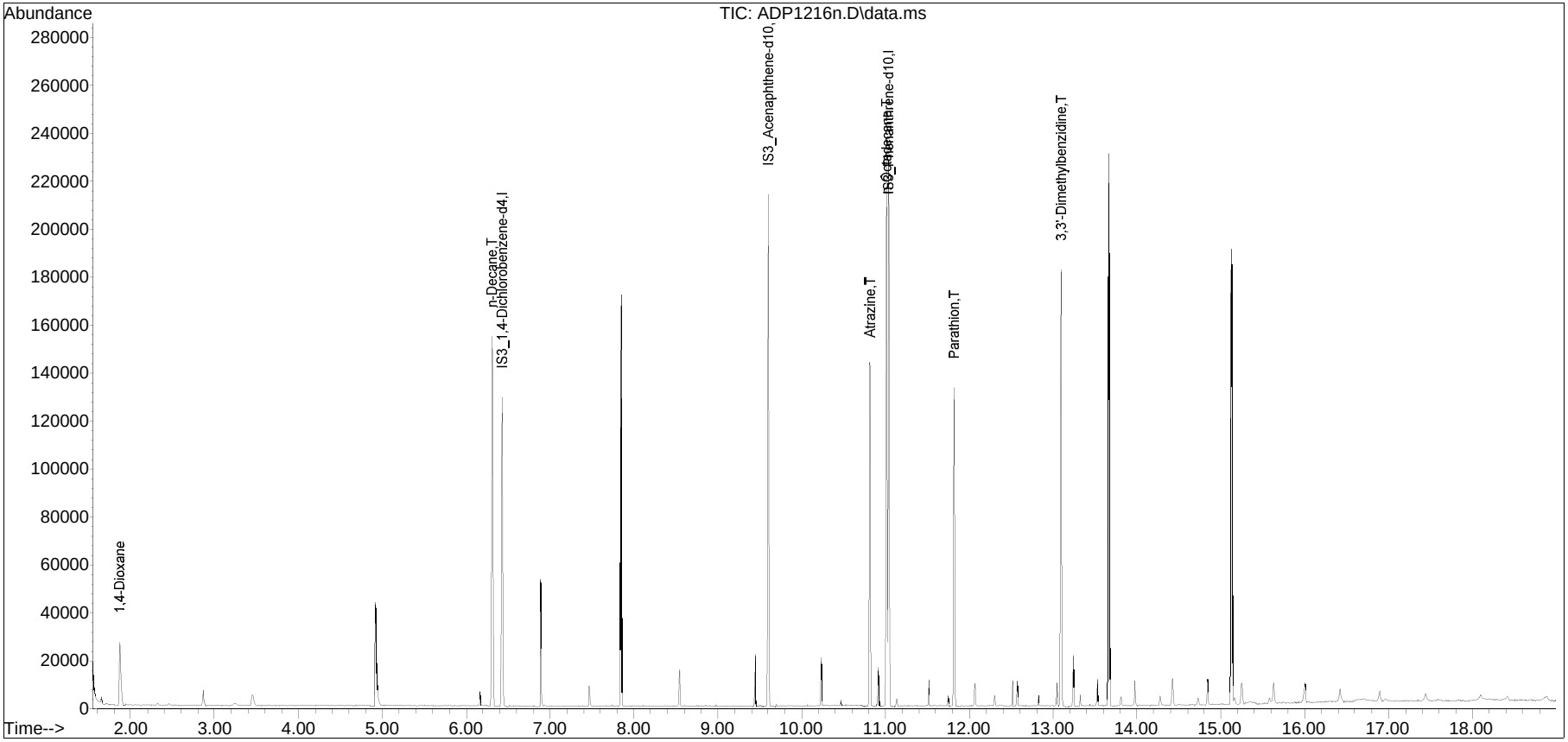
(#) = qualifier out of range (m) = manual integration (+) = signals summed

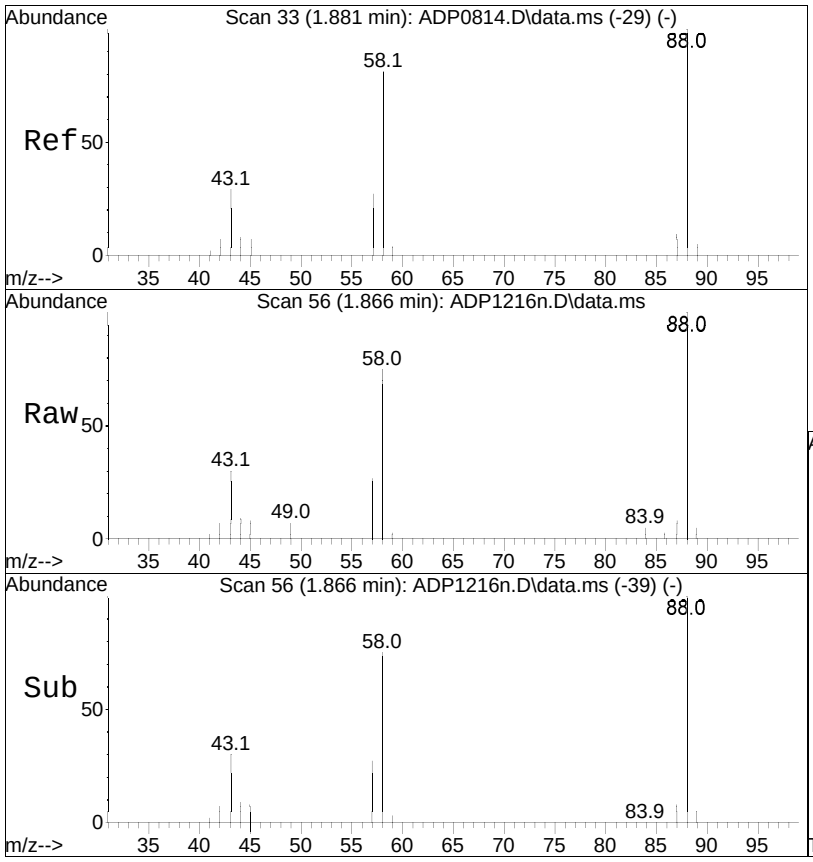
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\241216NRVT\
Data File : ADP1216n.D
Acq On : 17 Dec 2024 12:06 am
Operator : SV107:ljg
Sample : WG2008657-5,32,,ADP RVT CCV Lot # 10751
Misc : WG2008657,,ical21360
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Dec 17 00:28:18 2024
Quant Method : I:\8270\SV107\241216NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:29:51 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

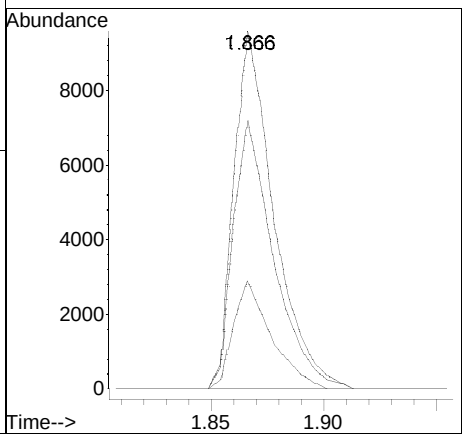


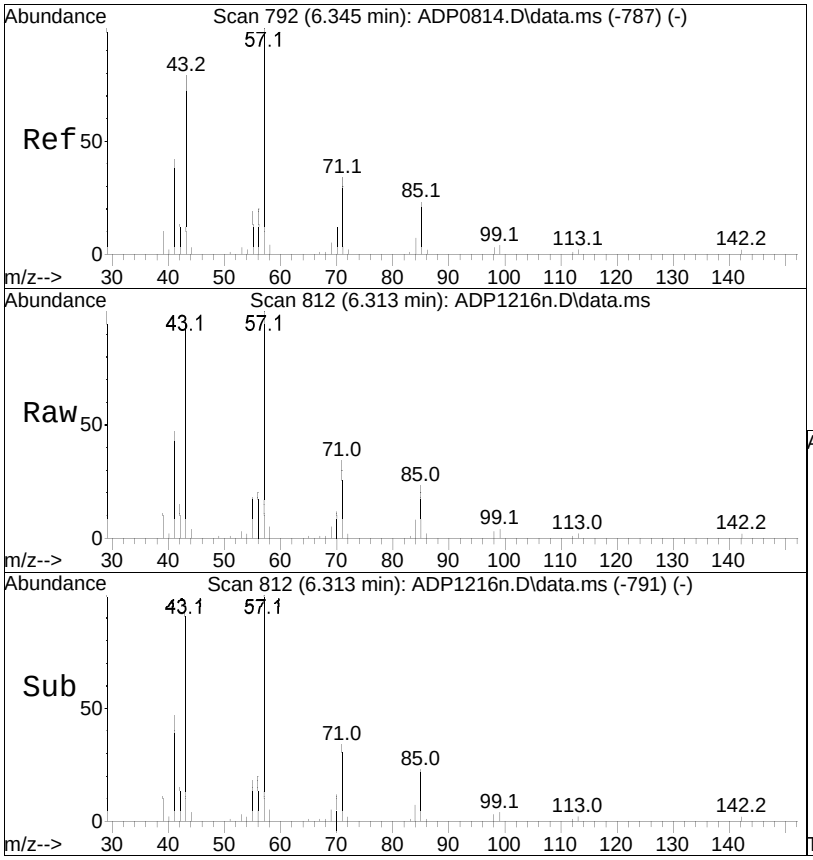


#33
1,4-Dioxane
Concen: 4.91 ug/ml
RT: 1.866 min Scan# 56
Delta R.T. 0.000 min
Lab File: ADP1216n.D
Acq: 17 Dec 2024 12:06 am

Tgt Ion: 88 Resp: 11727

Ion	Ratio	Lower	Upper
88	100		
58	75.9	44.8	67.2#
43	28.7	22.4	33.6

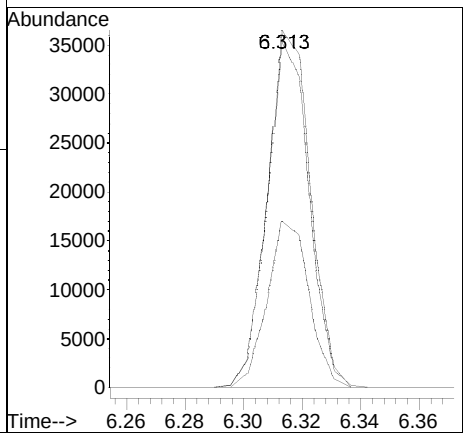


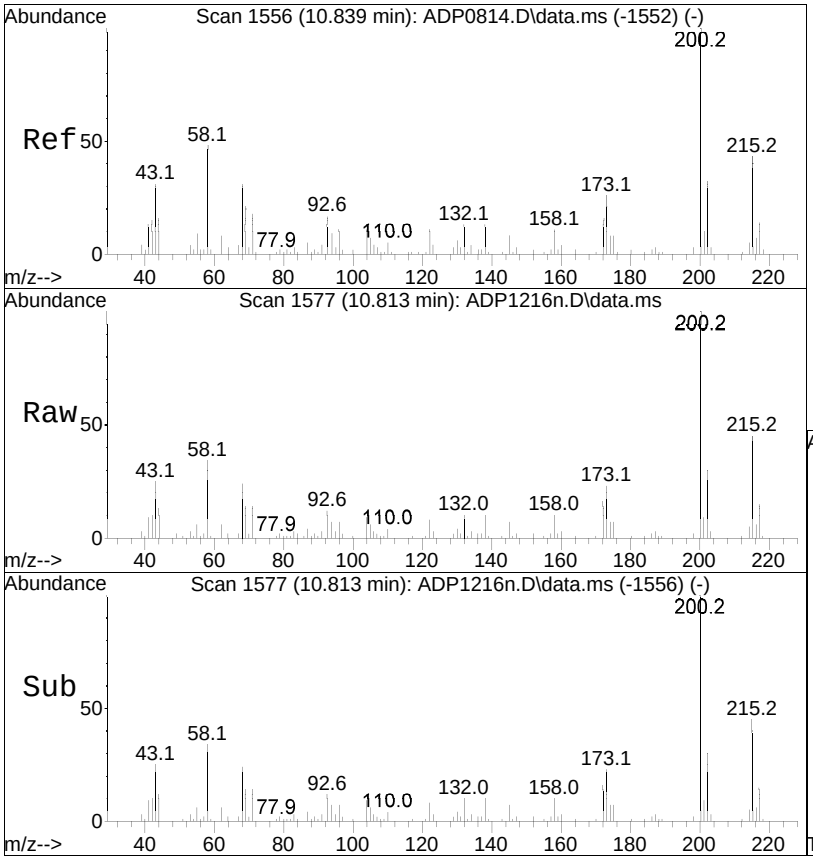


#34
n-Decane
Concen: 5.12 ug/ml
RT: 6.313 min Scan# 812
Delta R.T. 0.000 min
Lab File: ADP1216n.D
Acq: 17 Dec 2024 12:06 am

Tgt Ion: 57 Resp: 36966

Ion	Ratio	Lower	Upper
57	100		
43	94.8	0.2	0.2#
41	45.6	0.2	0.2#

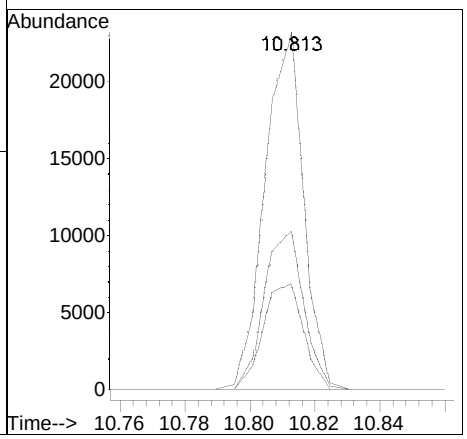


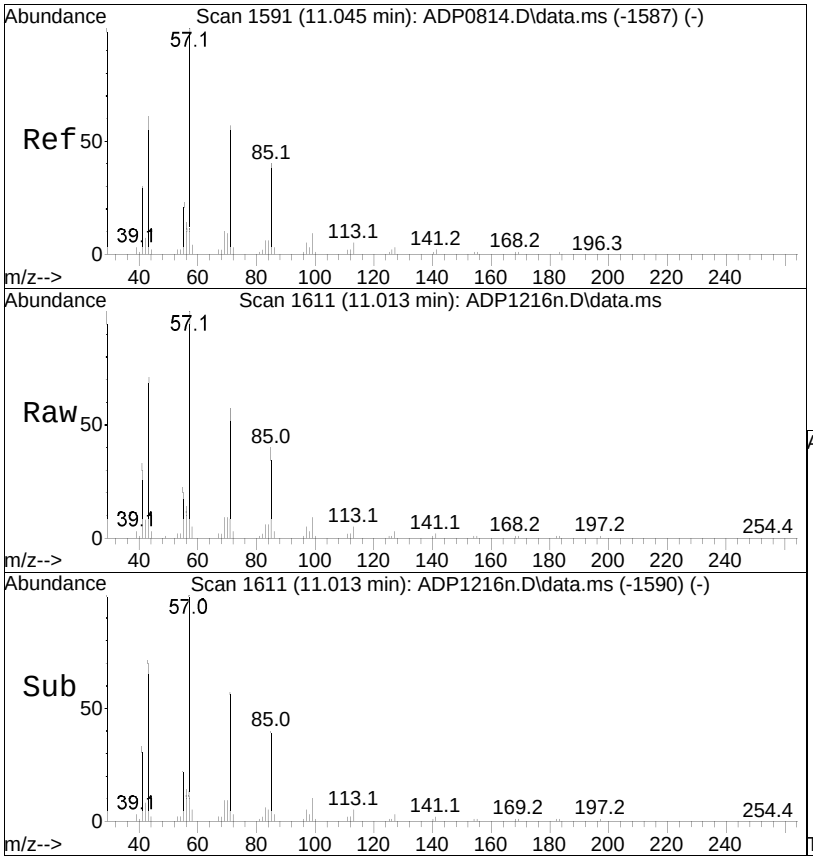


#87
Atrazine
Concen: 5.96 ug/ml
RT: 10.813 min Scan# 1577
Delta R.T. 0.000 min
Lab File: ADP1216n.D
Acq: 17 Dec 2024 12:06 am

Tgt Ion:200 Resp: 19020

Ion	Ratio	Lower	Upper
200	100		
202	31.2	25.8	38.6
215	45.6	40.2	60.4

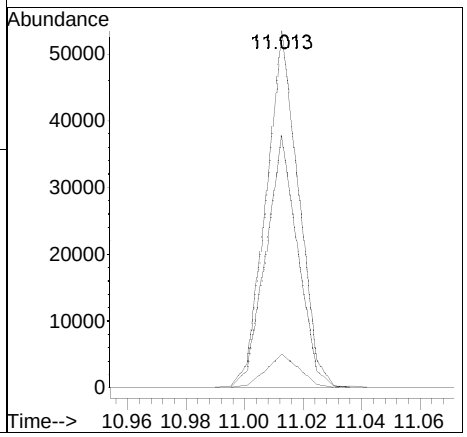


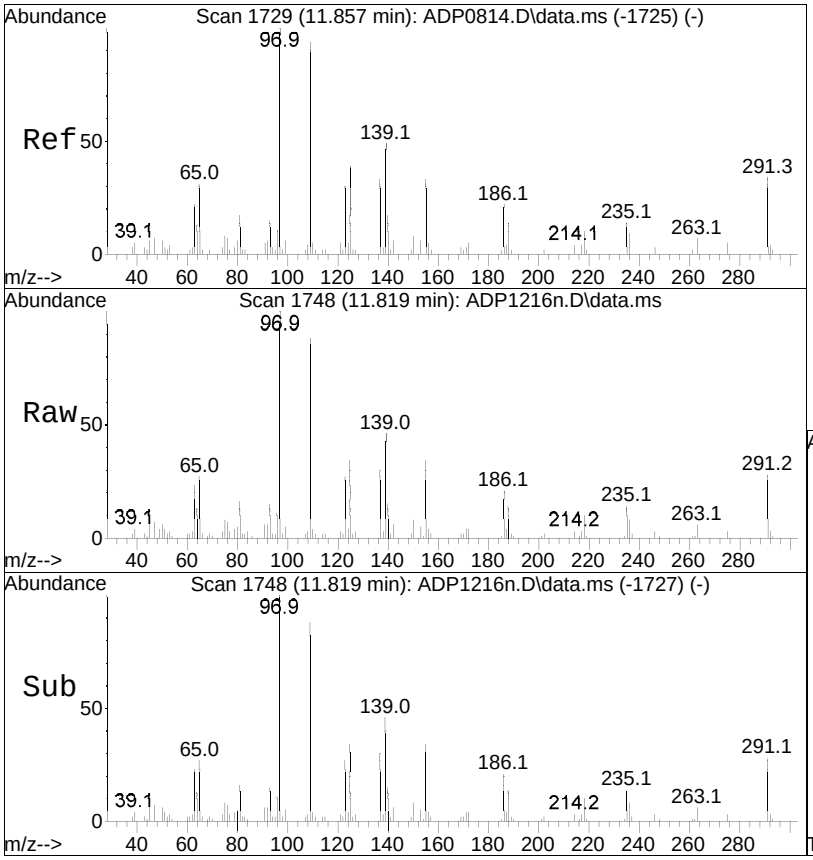


#101
n-Octadecane
Concen: 4.95 ug/ml
RT: 11.013 min Scan# 1611
Delta R.T. 0.000 min
Lab File: ADP1216n.D
Acq: 17 Dec 2024 12:06 am

Tgt Ion: 57 Resp: 40852

Ion	Ratio	Lower	Upper
57	100		
43	69.6	9.0	13.6#
70	9.8	0.2	0.2#

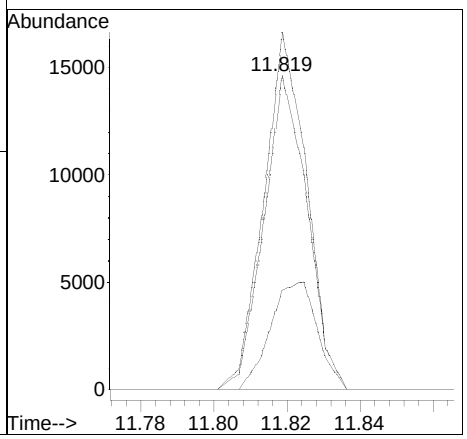


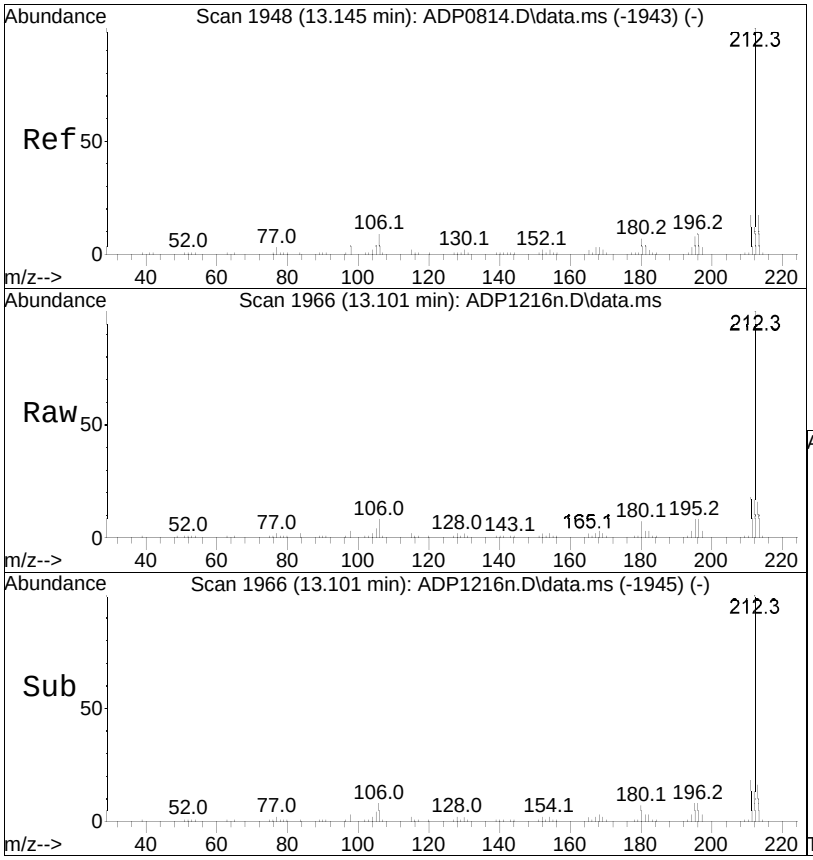


#102
Parathion
Concen: 6.76 ug/ml
RT: 11.819 min Scan# 1748
Delta R.T. 0.000 min
Lab File: ADP1216n.D
Acq: 17 Dec 2024 12:06 am

Tgt Ion:109 Resp: 11935

Ion	Ratio	Lower	Upper
109	100		
97	112.8	87.4	131.2
291	37.5	34.2	51.2

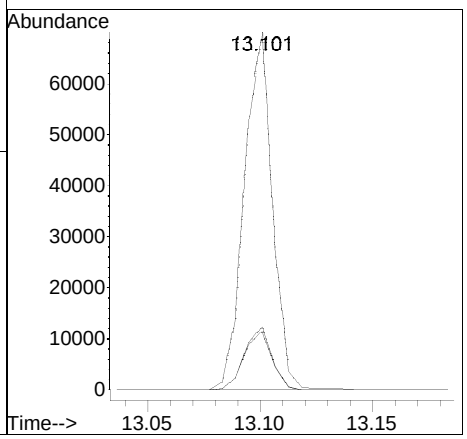




#103
3,3'-Dimethylbenzidine
Concen: 4.05 ug/ml
RT: 13.101 min Scan# 1966
Delta R.T. 0.000 min
Lab File: ADP1216n.D
Acq: 17 Dec 2024 12:06 am

Tgt Ion:212 Resp: 60079

Ion	Ratio	Lower	Upper
212	100		
211	17.3	12.9	19.3
213	16.3	13.2	19.8



Manual Integration Report

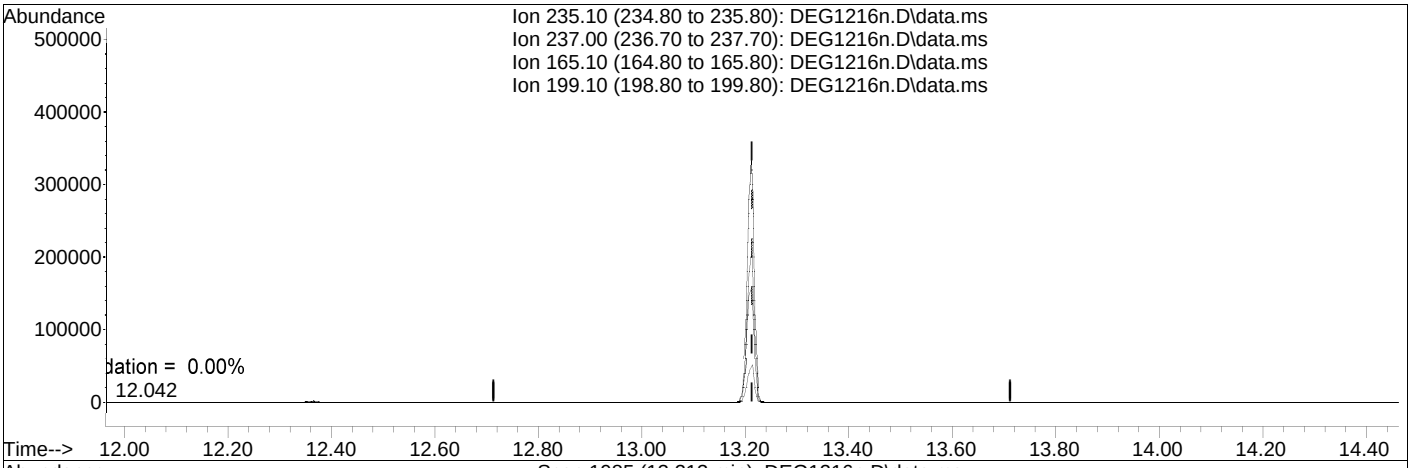
Data Path	: I:\8270\SV107\241216NRVT\	QMethod	: FS240730SV107RVT.m
Data File	: ADP1216n.D	Operator	: SV107:ljg
Date Inj'd	: 12/17/2024 12:06 am	Instrument	: SV107
Sample	: WG2008657-5,32,,ADP RVT CC	Quant Date	: 12/17/2024 0:29 am

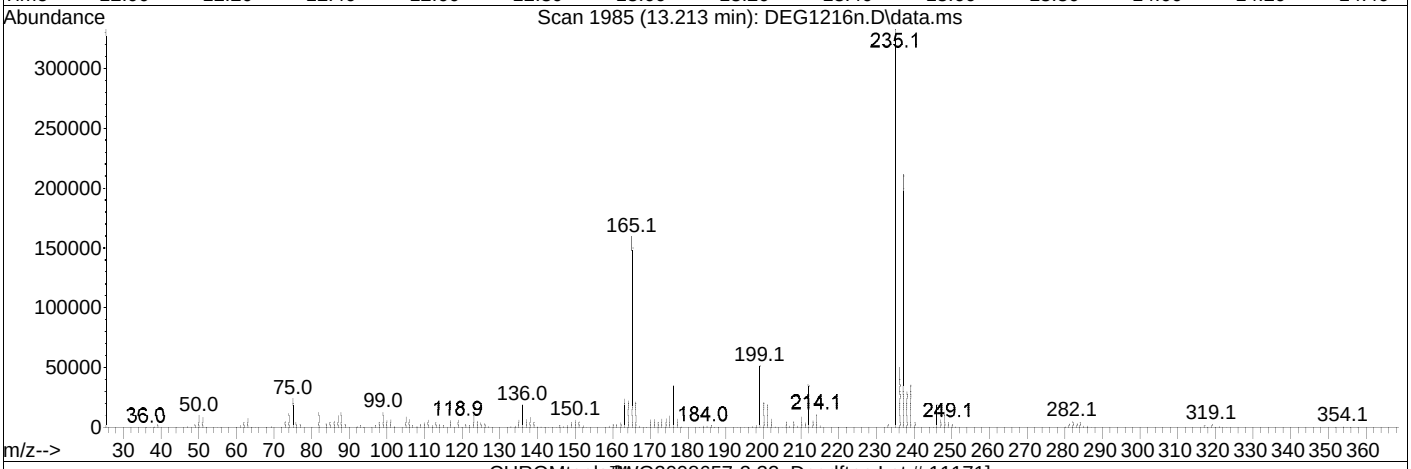
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\241216NRVT\
Data File : DEG1216n.D
Acq On : 16 Dec 2024 10:48 pm
Operator : SV107:ljg
Sample : WG2008657-2,32,,Degdftpp Lot # 11171
Misc : WG2008657,,ical21360
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 16 23:07:32 2024
Quant Method : I:\8270\SV107\241216NRVT\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 23:09:20 2024
Response via : Initial Calibration





CHROMtools [WG2008657-2,32,,Degdftpp Lot # 11171]

(6) DDT (T)

13.213min (-0.000) 49.50

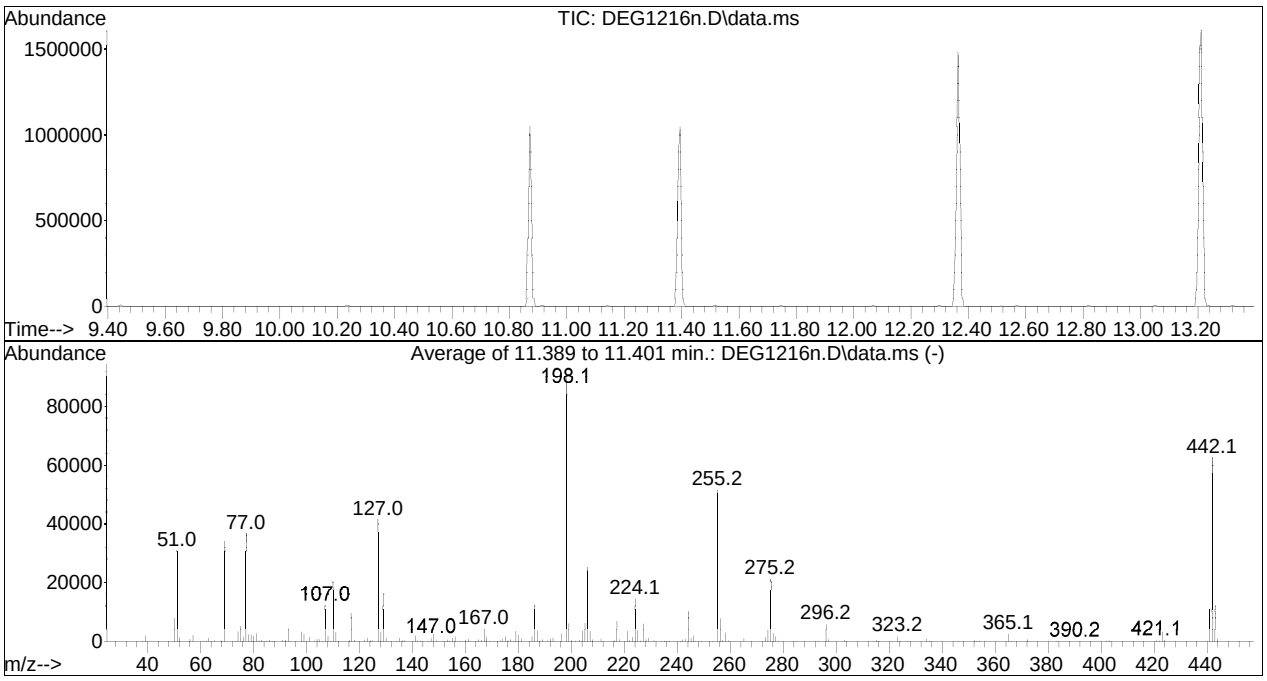
response 301725

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	64.30	63.67
165.10	55.40	49.67
199.10	16.20	15.63

Data Path : I:\8270\SV107\241216NRVT\
Data File : DEG1216n.D
Acq On : 16 Dec 2024 10:48 pm
Operator : SV107: ASK
Sample : WG2008657-1,32,,Degdftpp Lot # 11171
Misc : WG2008657,,ical21360
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV107\241216NRVT\FS240730SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Dec 17 00:10:11 2024



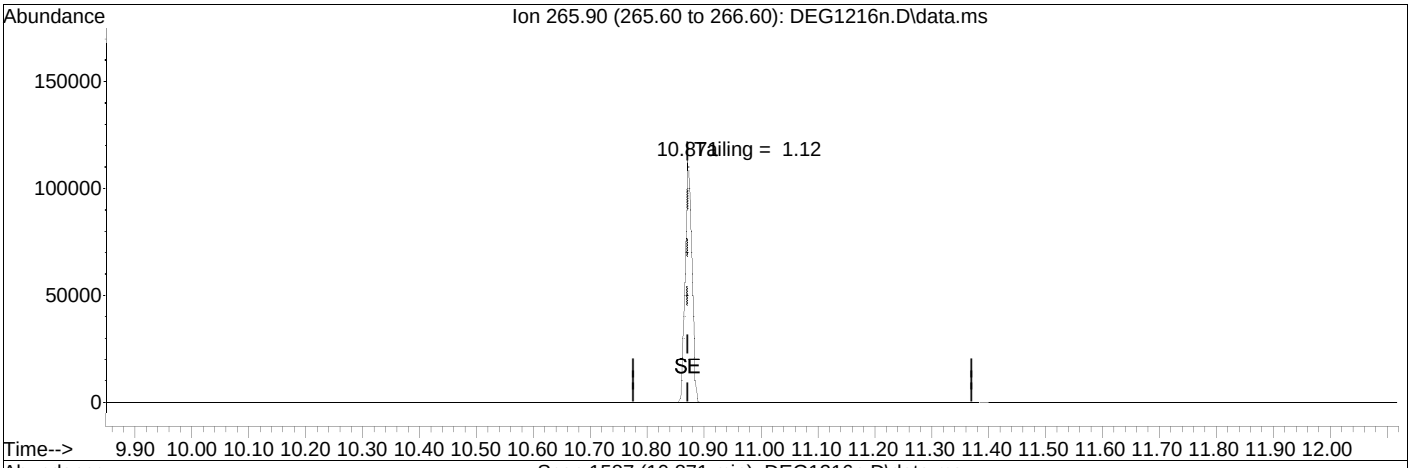
Spectrum Information: Average of 11.389 to 11.401 min.

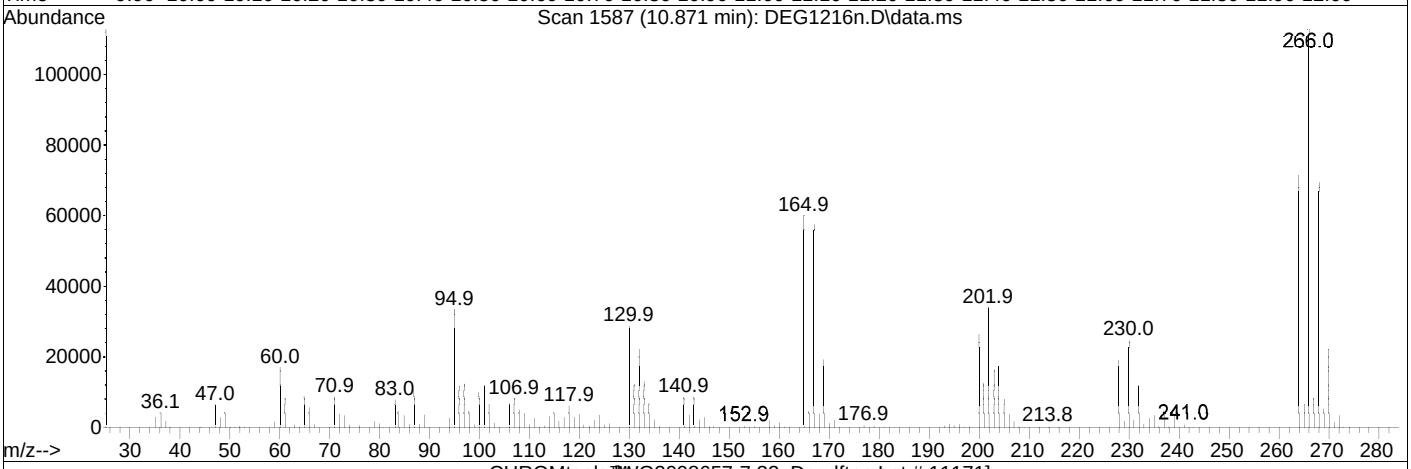
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.3	30795	PASS
68	69	0.00	2	1.5	497	PASS
69	69	100	100	100.0	33932	PASS
70	69	0.00	2	0.5	157	PASS
127	198	10	80	46.3	41513	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	89755	PASS
199	198	5	9	6.9	6176	PASS
275	198	10	60	23.6	21159	PASS
365	198	1	100	2.8	2473	PASS
441	442	0.01	24	17.2	10736	PASS
442	198	50	100	69.6	62507	PASS
443	442	15	24	19.3	12089	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\241216NRVT\
Data File : DEG1216n.D
Acq On : 16 Dec 2024 10:48 pm
Operator : SV107:ljg
Sample : WG2008657-7,32,,Degdftpp Lot # 11171
Misc : WG2008657,,ical21360
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 16 23:07:32 2024
Quant Method : I:\8270\SV107\241216NRVT\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 23:09:20 2024
Response via : Initial Calibration





CHROMtools [WG2008657-7,32,,Degdftpp Lot # 11171]

(1) Pentachlorophenol (T)

10.871min (+ 0.000) 40.62

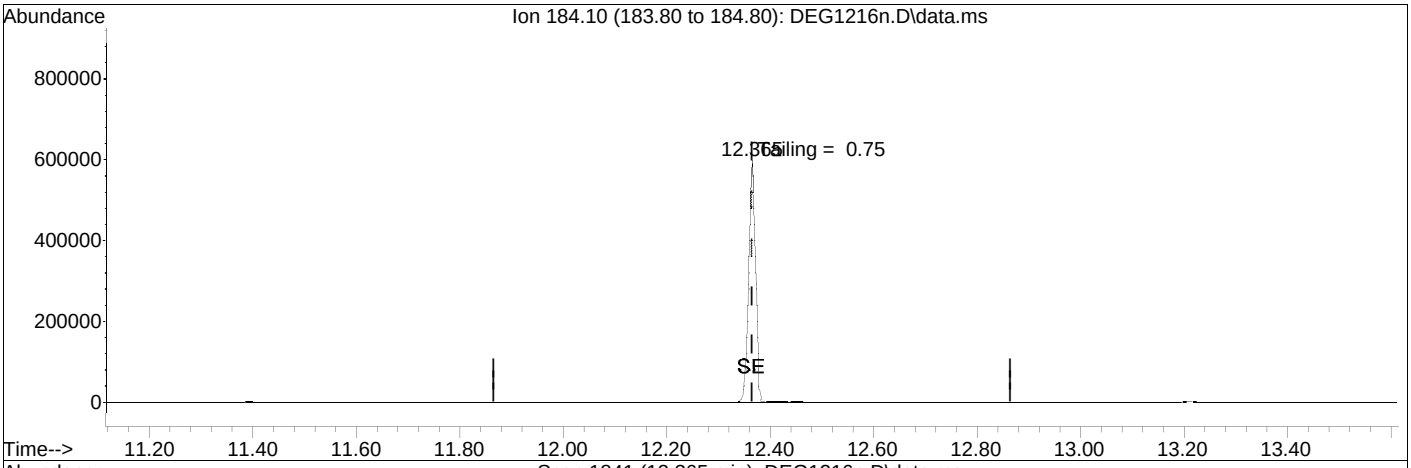
response 85310

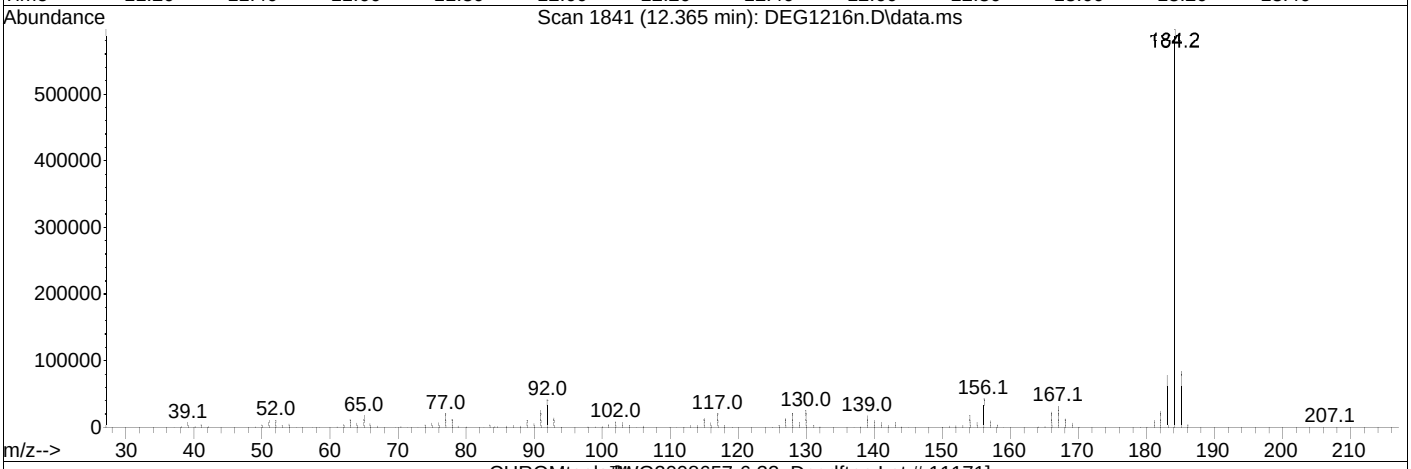
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\241216NRVT\
Data File : DEG1216n.D
Acq On : 16 Dec 2024 10:48 pm
Operator : SV107:ljg
Sample : WG2008657-6,32,,Degdftpp Lot # 11171
Misc : WG2008657,,ical21360
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 16 23:07:32 2024
Quant Method : I:\8270\SV107\241216NRVT\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 23:09:20 2024
Response via : Initial Calibration





CHROMtools [WG2008657-6,32,,Degdftpp Lot # 11171]

(3) Benzidine (T)

12.365min (+ 0.000) 51.10

response 520197

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

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 12/16/24 23:14		
Lab File ID	: ABN1216N	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG2008657-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	90	0
n-Nitrosodimethylamine	0.71	0.787	-	-10.8	20	99	0
Pyridine	1.086	1.276	-	-17.5	20	96	0
2-Fluorophenol	1.08	1.186	-	-9.8	20	98	0
Aniline	1.765	1.857	-	-5.2	20	101	0
2-Chlorophenol	1.294	1.303	-	-0.7	20	95	0
Phenol-d6	1.413	1.487	-	-5.2	20	100	0
Phenol	1.566	1.589	-	-1.5	20	98	0
Bis(2-chloroethyl)ether	1.247	1.212	-	2.8	20	97	0
1,3-Dichlorobenzene	1.587	1.511	-	4.8	20	92	0
1,4-Dichlorobenzene	1.599	1.502	-	6.1	20	91	0
1,2-Dichlorobenzene	1.562	1.445	-	7.5	20	91	0
Benzyl alcohol	1.01	1.104	-	-9.3	20	108	0
Bis(2-chloroisopropyl)ethe	1.617	1.876	-	-16	20	115	0
2-Methylphenol	1.126	1.128	-	-0.2	20	101	0
Hexachloroethane	0.563	0.592	-	-5.2	20	98	0
n-Nitrosodi-n-propylamine	0.862	0.919	-	-6.6	20	106	0
3-Methylphenol/4-Methylphe	1.241	1.205	-	2.9	20	99	0
Nitrobenzene-d5	1.368	1.448	-	-5.8	20	105	0
Nitrobenzene	1.312	1.443	-	-10	20	107	0
Isophorone	2.344	2.467	-	-5.2	20	104	0
2-Nitrophenol	0.667	0.664	-	0.4	20	100	0
2,4-Dimethylphenol	1.081	1.086	-	-0.5	20	146	0
Bis(2-chloroethoxy)methane	1.585	1.51	-	4.7	20	98	0
2,4-Dichlorophenol	1.18	1.148	-	2.7	20	96	0
1,2,4-Trichlorobenzene	1.405	1.324	-	5.8	20	95	0
IS1_Naphthalene-d8	1	1	-	0	20	86	0
Naphthalene	1.132	1.071	-	5.4	20	93	0
Benzoic Acid	5	5.333	-	-6.7	20	107	0
4-Chloroaniline	0.126	0.138	-	-9.5	20	98	0
Hexachlorobutadiene	0.224	0.256	-	-14.3	20	108	0
p-Chloro-m-cresol	0.283	0.325	-	-14.8	20	109	0
2-Methylnaphthalene	0.737	0.687	-	6.8	20	90	0
1-Methylnaphthalene	0.238	0.265	-	-11.3	20	105	0
Hexachlorocyclopentadiene	0.212	0.267	-	-25.9*	20	116	0
2,4,6-Trichlorophenol	0.234	0.267	-	-14.1	20	105	0
2,4,5-Trichlorophenol	0.249	0.286	-	-14.9	20	104	0
2-Fluorobiphenyl	0.9	0.873	-	3	20	98	0
2-Chloronaphthalene	0.763	0.71	-	6.9	20	94	0
2-Nitroaniline	0.204	0.224	-	-9.8	20	107	0
1,4-Dinitrobenzene	0.11	0.115	-	-4.5	20	111	0
1,3-Dinitrobenzene	0.129	0.131	-	-1.6	20	107	0
Dimethyl phthalate	0.863	0.898	-	-4.1	20	105	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 12/16/24 23:14		
Lab File ID	: ABN1216N	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG2008657-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.132	1.116	-	1.4	20	98	0
2,6-Dinitrotoluene	0.169	0.186	-	-10.1	20	105	0
1,2-Dinitrobenzene	0.077	0.082	-	-6.5	20	105	0
IS1_Acenaphthene-d10	1	1	-	0	20	97	0
3-Nitroaniline	0.32	0.327	-	-2.2	20	102	0
Acenaphthene	1.138	1.033	-	9.2	20	99	0
2,4-Dinitrophenol	5	4.17	-	16.6	20	106	0
Dibenzofuran	1.879	1.631	-	13.2	20	97	0
2,4-Dinitrotoluene	0.408	0.421	-	-3.2	20	110	0
4-Nitrophenol	0.253	0.264	-	-4.3	20	108	0
2,3,5,6-Tetrachlorophenol	0.341	0.375	-	-10	20	108	0
2,3,4,6-Tetrachlorophenol	0.325	0.371	-	-14.2	20	109	0
Diethyl phthalate	1.327	1.343	-	-1.2	20	113	0
Fluorene	1.404	1.331	-	5.2	20	103	0
4-Chlorophenyl phenyl ethe	0.713	0.678	-	4.9	20	105	0
4-Nitroaniline	0.32	0.327	-	-2.2	20	106	0
4,6-Dinitro-o-cresol	5	5.361	-	-7.2	20	143	0
NDPA/DPA	1.166	1.15	-	1.4	20	106	0
Azobenzene	1.226	1.311	-	-6.9	20	113	0
2,4,6-Tribromophenol	0.187	0.178	-	4.8	20	102	0
4-Bromophenyl phenyl ether	0.385	0.396	-	-2.9	20	113	0
Hexachlorobenzene	0.425	0.397	-	6.6	20	101	0
Pentachlorophenol	5	4.258	-	14.8	20	102	0
IS1_Phenanthrene-d10	1	1	-	0	20	112	0
Phenanthrene	1.151	0.969	-	15.8	20	107	0
Anthracene	1.089	0.982	-	9.8	20	111	0
Carbazole	0.994	0.894	-	10.1	20	109	0
Di-n-butylphthalate	1.094	1.062	-	2.9	20	126	0
Fluoranthene	1.261	1.176	-	6.7	20	116	0
Benzidine	5	4.549	-	9	20	140	0
Pyrene	1.372	1.263	-	7.9	20	115	0
4-Terphenyl-d14	0.946	0.859	-	9.2	20	117	0
Butyl benzyl phthalate	5	4.361	-	12.8	20	143	0
IS1_Chrysene-d12	1	1	-	0	20	117	0
Benzo(a)anthracene	1.453	1.382	-	4.9	20	122	0
3,3'-Dichlorobenzidine	5	4.507	-	9.9	20	131	0
Chrysene	1.403	1.276	-	9.1	20	117	0
Bis(2-ethylhexyl)phthalate	5	4.951	-	1	20	137	0
Di-n-octylphthalate	5	4.737	-	5.3	20	152	0
Benzo(b)fluoranthene	1.251	1.322	-	-5.7	20	130	0
Benzo(k)fluoranthene	1.251	1.114	-	11	20	103	0
Benzo(a)pyrene	1.101	1.139	-	-3.5	20	121	0
IS1_Perylene-d12	1	1	-	0	20	113	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 12/16/24 23:14		
Lab File ID	: ABN1216N	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG2008657-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.098	1.152	-	-4.9	20	122	0
Dibenzo(a,h)anthracene	1.056	1.043	-	1.2	20	113	0
Benzo(ghi)perylene	0.977	1.027	-	-5.1	20	114	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: DAKOTA	**Calibration Date**	: 12/16/24 23:28		
Lab File ID	: ABN1216NA	**Init. Calib. Date(s)**	: 11/05/24	11/06/24	
Sample No	: WG2009953-3	**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	91	0
n-Nitrosodimethylamine	0.63	0.66	-	-4.8	20	97	0
Pyridine	0.954	1.113	-	-16.7	20	100	0
2-Fluorophenol	1.028	1.011	-	1.7	20	92	0
Aniline	1.567	1.532	-	2.2	20	91	0
2-Chlorophenol	1.225	1.194	-	2.5	20	90	0
Phenol-d6	1.317	1.263	-	4.1	20	91	0
Phenol	1.421	1.379	-	3	20	91	0
Bis(2-chloroethyl)ether	1.017	0.983	-	3.3	20	92	0
1,3-Dichlorobenzene	1.577	1.486	-	5.8	20	90	0
1,4-Dichlorobenzene	1.61	1.494	-	7.2	20	89	0
1,2-Dichlorobenzene	1.534	1.465	-	4.5	20	91	0
Benzyl alcohol	0.93	0.928	-	0.2	20	93	0
Bis(2-chloroisopropyl)ethe	1.794	1.891	-	-5.4	20	101	0
2-Methylphenol	1.079	1.036	-	4	20	93	0
Hexachloroethane	0.589	0.553	-	6.1	20	93	0
n-Nitrosodi-n-propylamine	0.863	0.823	-	4.6	20	93	0
3-Methylphenol/4-Methylphe	1.182	1.122	-	5.1	20	93	0
Nitrobenzene-d5	1.195	1.213	-	-1.5	20	94	0
Nitrobenzene	1.222	1.255	-	-2.7	20	95	0
Isophorone	2.247	2.218	-	1.3	20	93	0
2-Nitrophenol	0.619	0.65	-	-5	20	99	0
2,4-Dimethylphenol	1.101	1.014	-	7.9	20	87	0
Bis(2-chloroethoxy)methane	1.4	1.415	-	-1.1	20	96	0
2,4-Dichlorophenol	1.285	1.252	-	2.6	20	92	0
1,2,4-Trichlorobenzene	1.555	1.42	-	8.7	20	88	0
IS1_Naphthalene-d8	1	1	-	0	20	93	0
Naphthalene	1.1	1.017	-	7.5	20	92	0
Benzoic Acid	0.228	0.206	-	9.6	20	93	0
4-Chloroaniline	0.121	0.118	-	2.5	20	92	0
Hexachlorobutadiene	0.258	0.236	-	8.5	20	87	0
p-Chloro-m-cresol	0.29	0.279	-	3.8	20	92	0
2-Methylnaphthalene	0.761	0.712	-	6.4	20	94	0
1-Methylnaphthalene	0.242	0.23	-	5	20	92	0
Hexachlorocyclopentadiene	0.272	0.267	-	1.8	20	92	0
2,4,6-Trichlorophenol	0.287	0.286	-	0.3	20	95	0
2,4,5-Trichlorophenol	0.32	0.299	-	6.6	20	92	0
2-Fluorobiphenyl	0.99	0.919	-	7.2	20	93	0
2-Chloronaphthalene	0.852	0.789	-	7.4	20	92	0
2-Nitroaniline	0.218	0.221	-	-1.4	20	95	0
1,4-Dinitrobenzene	0.095	0.101	-	-6.3	20	99	0
1,3-Dinitrobenzene	0.113	0.114	-	-0.9	20	92	0
Dimethyl phthalate	0.991	0.981	-	1	20	99	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: DAKOTA	**Calibration Date**	: 12/16/24 23:28		
Lab File ID	: ABN1216NA	**Init. Calib. Date(s)**	: 11/05/24	11/06/24	
Sample No	: WG2009953-3	**Init. Calib. Times**	: 16:59	04:17	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.252	1.236	-	1.3	20	97	0
2,6-Dinitrotoluene	0.185	0.2	-	-8.1	20	100	0
1,2-Dinitrobenzene	0.066	0.07	-	-6.1	20	93	0
IS1_Acenaphthene-d10	1	1	-	0	20	98	0
3-Nitroaniline	0.309	0.309	-	0	20	97	0
Acenaphthene	1.163	1.03	-	11.4	20	95	0
2,4-Dinitrophenol	0.188	0.155	-	17.6	20	88	0
Dibenzofuran	2.006	1.79	-	10.8	20	96	0
2,4-Dinitrotoluene	0.387	0.421	-	-8.8	20	102	0
4-Nitrophenol	0.23	0.257	-	-11.7	20	108	0
2,3,5,6-Tetrachlorophenol	0.436	0.427	-	2.1	20	98	0
2,3,4,6-Tetrachlorophenol	0.428	0.418	-	2.3	20	99	0
Diethyl phthalate	1.575	1.504	-	4.5	20	103	0
Fluorene	1.536	1.4	-	8.9	20	96	0
4-Chlorophenyl phenyl ethe	0.792	0.7	-	11.6	20	95	0
4-Nitroaniline	0.299	0.313	-	-4.7	20	98	0
4,6-Dinitro-o-cresol	0.234	0.246	-	-5.1	20	100	0
NDPA/DPA	1.337	1.212	-	9.3	20	97	0
Azobenzene	1.281	1.254	-	2.1	20	101	0
2,4,6-Tribromophenol	0.286	0.308	-	-7.7	20	111	0
4-Bromophenyl phenyl ether	0.522	0.469	-	10.2	20	97	0
Hexachlorobenzene	0.656	0.618	-	5.8	20	103	0
Pentachlorophenol	0.356	0.304	-	14.6	20	83	0
IS1_Phenanthrene-d10	1	1	-	0	20	101	0
Phenanthrene	1.183	1.077	-	9	20	100	0
Anthracene	1.16	1.066	-	8.1	20	99	0
Carbazole	1.064	1.002	-	5.8	20	99	0
Di-n-butylphthalate	1.207	1.205	-	0.2	20	102	0
Fluoranthene	1.422	1.313	-	7.7	20	100	0
Benzidine	0.772	0.753	-	2.5	20	94	0
Pyrene	1.52	1.425	-	6.2	20	100	0
4-Terphenyl-d14	1.157	1.032	-	10.8	20	97	0
Butyl benzyl phthalate	0.517	0.53	-	-2.5	20	102	0
IS1_Chrysene-d12	1	1	-	0	20	103	0
Benzo(a)anthracene	1.355	1.218	-	10.1	20	100	0
3,3'-Dichlorobenzidine	0.505	0.483	-	4.4	20	99	0
Chrysene	1.349	1.172	-	13.1	20	98	0
Bis(2-ethylhexyl)phthalate	0.726	0.75	-	-3.3	20	105	0
Di-n-octylphthalate	1.212	1.219	-	-0.6	20	103	0
Benzo(b)fluoranthene	1.42	1.325	-	6.7	20	104	0
Benzo(k)fluoranthene	1.383	1.248	-	9.8	20	95	0
Benzo(a)pyrene	1.267	1.177	-	7.1	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**	: L2473162		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: DAKOTA	**Calibration Date**	: 12/16/24 23:28		
Lab File ID	: ABN1216NA	**Init. Calib. Date(s)**	: 11/05/24	11/06/24	
Sample No	: WG2009953-3	**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	1.127	-	8.7	20	97	0
Dibenzo(a,h)anthracene	1.213	1.094	-	9.8	20	94	0
Benzo(ghi)perylene	1.192	1.102	-	7.6	20	99	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 12/16/24 23:40		
Lab File ID	: AP91216N	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG2008657-4	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	110	0
Benzaldehyde	1.145	1.009	-	11.9	20	101	0
Acetophenone	2.032	1.786	-	12.1	20	101	0
m-Toluidine	1.86	1.673	-	10.1	20	97	0
2-Chloroaniline	1.773	1.544	-	12.9	20	96	0
IS2_Naphthalene-d8	1	1	-	0	20	101	0
a-Terpineol	0.297	0.307	-	-3.4	20	102	0
3-Chloroaniline	0.163	0.162	-	0.6	20	99	0
2,6-Dichlorophenol	0.319	0.311	-	2.5	20	95	0
1-chloro-2-nitrobenzene	0.155	0.151	-	2.6	20	99	0
Caprolactam	5	4.99	-	0.2	20	114	0
1,2,4,5-Tetrachlorobenzene	0.444	0.409	-	7.9	20	97	0
Biphenyl	1.036	0.823	-	20.6*	20	85	0
IS2_Acenaphthene-d10	1	1	-	0	20	101	0
Dichloran	5	4.645	-	7.1	20	118	0
Pentachloronitrobenzene	5	5.192	-	-3.8	20	125	0
IS2_Phenanthrene-d10	1	1	-	0	20	108	0
Diphenamid	0.507	0.482	-	4.9	20	107	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: DAKOTA	**Calibration Date**	: 12/16/24 23:50		
Lab File ID	: AP91216NA	**Init. Calib. Date(s)**	: 11/05/24	11/06/24	
Sample No	: WG2009953-4	**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	92	0
Benzaldehyde	0.703	0.751	-	-6.8	20	91	0
Acetophenone	1.403	1.498	-	-6.8	20	94	0
m-Toluidine	1.287	1.38	-	-7.2	20	96	0
2-Chloroaniline	1.368	1.502	-	-9.8	20	97	0
IS2_Naphthalene-d8	1	1	-	0	20	97	0
a-Terpineol	0.221	0.247	-	-11.8	20	102	0
3-Chloroaniline	0.115	0.125	-	-8.7	20	97	0
2,6-Dichlorophenol	0.296	0.323	-	-9.1	20	98	0
1-chloro-2-nitrobenzene	0.113	0.125	-	-10.6	20	96	0
Caprolactam	0.123	0.135	-	-9.8	20	103	0
1,2,4,5-Tetrachlorobenzene	0.413	0.41	-	0.7	20	91	0
Biphenyl	0.842	0.875	-	-3.9	20	95	0
IS2_Acenaphthene-d10	1	1	-	0	20	97	0
Dichloran	0.169	0.188	-	-11.2	20	111	0
Pentachloronitrobenzene	0.187	0.212	-	-13.4	20	114	0
IS2_Phenanthrene-d10	1	1	-	0	20	101	0
Diphenamid	0.416	0.468	-	-12.5	20	109	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 12/17/24 00:06		
Lab File ID	: ADP1216N	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG2008657-5	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	117	0
1,4-Dioxane	0.459	0.451	-	1.7	20	131	0
n-Decane	1.388	1.423	-	-2.5	20	131	0
IS3_Acenaphthene-d10	1	1	-	0	20	109	0
Atrazine	0.315	0.375	-	-19	20	130	0
IS3_Phenanthrene-d10	1	1	-	0	20	115	0
n-Octadecane	0.381	0.377	-	1	20	116	0
Parathion	5	6.757	-	-35.1*	20	193	0
3,3'-Dimethylbenzidine	5	4.049	-	19	20	118	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: DAKOTA	**Calibration Date**	: 12/17/24 00:13		
Lab File ID	: ADP1216NA	**Init. Calib. Date(s)**	: 11/05/24	11/06/24	
Sample No	: WG2009953-5	**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	95	0
1,4-Dioxane	0.381	0.4	-	-5	20	95	0
n-Decane	1.048	1.091	-	-4.1	20	95	0
IS3_Acenaphthene-d10	1	1	-	0	20	100	0
Atrazine	0.343	0.347	-	-1.2	20	101	0
IS3_Phenanthrene-d10	1	1	-	0	20	103	0
n-Octadecane	0.334	0.365	-	-9.3	20	113	0
Parathion	5	5.361	-	-7.2	20	124	0
3,3'-Dimethylbenzidine	0.728	0.683	-	6.2	20	108	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\241216NARVT\
Data File : ABN1216na.D
Acq On : 16 Dec 2024 11:28 pm
Operator : Dakota:ljg
Sample : WG2009953-3,32,,ABN RVT CCV Lot # 11043
Misc : WG2009953,,ical21680
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Dec 17 10:49:30 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 10:50:27 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	91	0.00
2	t	n-Nitrosodimethylamine	0.630	0.660	-4.8	97	0.00
3	t	Pyridine	0.954	1.113	-16.7	100	0.00
4	S	2-Fluorophenol	1.028	1.011	1.7	92	0.00
5	T	Aniline	1.567	1.532	2.2	91	0.00
6	t	2-Chlorophenol	1.225	1.194	2.5	90	0.00
7	S	Phenol-d6	1.317	1.263	4.1	91	0.00
8	T	Phenol	1.421	1.379	3.0	91	0.00
9	T	Bis(2-chloroethyl)ether	1.017	0.983	3.3	92	0.00
10	T	1,3-Dichlorobenzene	1.577	1.486	5.8	90	0.00
11	T	1,4-Dichlorobenzene	1.610	1.494	7.2	89	0.00
12	T	1,2-Dichlorobenzene	1.534	1.465	4.5	91	0.00
13	t	Benzyl alcohol	0.930	0.928	0.2	93	0.00
14	T	Bis(2-chloroisopropyl)ether	1.794	1.891	-5.4	101	0.00
15	T	2-Methylphenol	1.079	1.036	4.0	93	0.00
16	T	Hexachloroethane	0.589	0.553	6.1	93	0.00
17	T	n-Nitrosodi-n-propylamine	0.863	0.823	4.6	93	0.00
18	T	3-Methylphenol/4-Methylphen	1.182	1.122	5.1	93	0.00
19	S	Nitrobenzene-d5	1.195	1.213	-1.5	94	0.00
20	T	Nitrobenzene	1.222	1.255	-2.7	95	0.00
21	T	Isophorone	2.247	2.218	1.3	93	0.00
22	T	2-Nitrophenol	0.619	0.650	-5.0	99	0.00
23	T	2,4-Dimethylphenol	1.101	1.014	7.9	87	0.00
24	T	Bis(2-chloroethoxy)methane	1.400	1.415	-1.1	96	0.00
25	T	2,4-Dichlorophenol	1.285	1.252	2.6	92	0.00
26	T	1,2,4-Trichlorobenzene	1.555	1.420	8.7	88	0.00
37	I	IS1_Naphthalene-d8	1.000	1.000	0.0	93	0.00
38	T	Naphthalene	1.100	1.017	7.5	92	0.00
39	T	Benzoic Acid	0.228	0.206	9.6	93	0.00
40	T	4-Chloroaniline	0.121	0.118	2.5	92	0.00
41	T	Hexachlorobutadiene	0.258	0.236	8.5	87	0.00
42	T	p-Chloro-m-cresol	0.290	0.279	3.8	92	0.00
43	T	2-Methylnaphthalene	0.761	0.712	6.4	94	0.00
44	T	1-Methylnaphthalene	0.242	0.230	5.0	92	0.00
45	T	Hexachlorocyclopentadiene	0.272	0.267	1.8	92	0.00
46	T	2,4,6-Trichlorophenol	0.287	0.286	0.3	95	0.00
47	T	2,4,5-Trichlorophenol	0.320	0.299	6.6	92	0.00
48	S	2-Fluorobiphenyl	0.990	0.919	7.2	93	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\241216NARVT\
Data File : ABN1216na.D
Acq On : 16 Dec 2024 11:28 pm
Operator : Dakota:ljg
Sample : WG2009953-3,32,,ABN RVT CCV Lot # 11043
Misc : WG2009953,,ical21680
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Dec 17 10:49:30 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 10:50:27 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	0.789	7.4	92	0.00
50	T	2-Nitroaniline	0.218	0.221	-1.4	95	0.00
51	T	1,4-Dinitrobenzene	0.095	0.101	-6.3	99	0.00
52	T	1,3-Dinitrobenzene	0.113	0.114	-0.9	92	0.00
53	T	Dimethyl phthalate	0.991	0.981	1.0	99	0.00
54	T	Acenaphthylene	1.252	1.236	1.3	97	0.00
55	T	2,6-Dinitrotoluene	0.185	0.200	-8.1	100	0.00
56	T	1,2-Dinitrobenzene	0.066	0.070	-6.1	93	0.00
65	I	IS1_Acenaphthene-d10	1.000	1.000	0.0	98	0.00
66	T	3-Nitroaniline	0.309	0.309	0.0	97	0.00
67	T	Acenaphthene	1.163	1.030	11.4	95	0.00
68	T	2,4-Dinitrophenol	0.188	0.155	17.6	88	0.00
69	T	Dibenzofuran	2.006	1.790	10.8	96	0.00
70	T	2,4-Dinitrotoluene	0.387	0.421	-8.8	102	0.00
71	T	4-Nitrophenol	0.230	0.257	-11.7	108	0.00
72	T	2,3,5,6-Tetrachlorophenol	0.436	0.427	2.1	98	0.00
73	T	2,3,4,6-Tetrachlorophenol	0.428	0.418	2.3	99	0.00
74	T	Diethyl phthalate	1.575	1.504	4.5	103	0.00
75	T	Fluorene	1.536	1.400	8.9	96	0.00
76	T	4-Chlorophenyl phenyl ether	0.792	0.700	11.6	95	0.00
77	T	4-Nitroaniline	0.299	0.313	-4.7	98	0.00
78	T	4,6-Dinitro-o-cresol	0.234	0.246	-5.1	100	0.00
79	T	NDPA/DPA	1.337	1.212	9.3	97	0.00
80	T	Azobenzene	1.281	1.254	2.1	101	0.00
81	S	2,4,6-Tribromophenol	0.286	0.308	-7.7	111	0.00
82	T	4-Bromophenyl phenyl ether	0.522	0.469	10.2	97	0.00
83	T	Hexachlorobenzene	0.656	0.618	5.8	103	0.00
84	T	Pentachlorophenol	0.356	0.304	14.6	83	0.00
90	I	IS1_Phenanthrene-d10	1.000	1.000	0.0	101	0.00
91	T	Phenanthrene	1.183	1.077	9.0	100	0.00
92	T	Anthracene	1.160	1.066	8.1	99	0.00
93	T	Carbazole	1.064	1.002	5.8	99	0.00
94	T	Di-n-butylphthalate	1.207	1.205	0.2	102	0.00
95	T	Fluoranthene	1.422	1.313	7.7	100	0.00
96	T	Benzidine	0.772	0.753	2.5	94	0.00
97	T	Pyrene	1.520	1.425	6.2	100	0.00
98	S	4-Terphenyl-d14	1.157	1.032	10.8	97	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\241216NARVT\
Data File : ABN1216na.D
Acq On : 16 Dec 2024 11:28 pm
Operator : Dakota:ljg
Sample : WG2009953-3,32,,ABN RVT CCV Lot # 11043
Misc : WG2009953,,ical21680
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Dec 17 10:49:30 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 10:50:27 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	0.530	-2.5	102	0.00
106	I	IS1_Chrysene-d12	1.000	1.000	0.0	103	0.00
107	T	Benzo(a)anthracene	1.355	1.218	10.1	100	0.00
108	T	3,3'-Dichlorobenzidine	0.505	0.483	4.4	99	0.00
109	T	Chrysene	1.349	1.172	13.1	98	0.00
110	T	Bis(2-ethylhexyl)phthalate	0.726	0.750	-3.3	105	0.00
111	T	Di-n-octylphthalate	1.212	1.219	-0.6	103	0.00
112	T	Benzo(b)fluoranthene	1.420	1.325	6.7	104	0.00
113	T	Benzo(k)fluoranthene	1.383	1.248	9.8	95	0.00
114	T	Benzo(a)pyrene	1.267	1.177	7.1	98	0.00
115	I	IS1_Perylene-d12	1.000	1.000	0.0	100	0.00
116	T	Indeno(1,2,3-cd)pyrene	1.234	1.127	8.7	97	0.00
117	T	Dibenzo(a,h)anthracene	1.213	1.094	9.8	94	0.00
118	T	Benzo(ghi)perylene	1.192	1.102	7.6	99	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\241216NARVT\
Data File : ABN1216na.D
Acq On : 16 Dec 2024 11:28 pm
Operator : Dakota:ljg
Sample : WG2009953-3,32,,ABN RVT CCV Lot # 11043
Misc : WG2009953,,ical21680
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Dec 17 10:49:30 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 10:50:27 2024
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...	3.636	152	26484	4.000	ug/ml		0.00
37) IS1_Naphthalene-d8	4.898	136	99668	4.000	ug/ml	#	0.00
65) IS1_Acenaphthene-d10	6.580	164	68055	4.000	ug/ml		0.00
90) IS1_Phenanthrene-d10	7.972	188	150638	4.000	ug/ml		0.00
106) IS1_Chrysene-d12	10.477	240	177601	4.000	ug/ml		0.00
115) IS1_Perylene-d12	11.826	264	203764	4.000	ug/ml		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	2.222	112	33482	4.918	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 245.90%#				
7) Phenol-d6	3.369	99	41817	4.796	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 239.80%#				
19) Nitrobenzene-d5	4.212	82	40143	5.073	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 507.30%#				
48) 2-Fluorobiphenyl	5.983	172	114458	4.640	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 464.00%#				
81) 2,4,6-Tribromophenol	7.332	330	26183	5.382	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 269.10%#				
98) 4-Terphenyl-d14	9.545	244	194344	4.459	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 445.90%#				
Target Compounds							Qvalue
2) n-Nitrosodimethylamine	1.013	74	21834	5.232	ug/ml		83
3) Pyridine	1.029	79	36844	5.833	ug/ml	#	60
5) Aniline	3.310	93	50706	4.888	ug/ml		96
6) 2-Chlorophenol	3.425	128	39530	4.874	ug/ml		91
8) Phenol	3.382	94	45655	4.854	ug/ml		97
9) Bis(2-chloroethyl)ether	3.422	93	32545	4.832	ug/ml	#	69
10) 1,3-Dichlorobenzene	3.574	146	49179	4.711	ug/ml		94
11) 1,4-Dichlorobenzene	3.655	146	49461	4.641	ug/ml		94
12) 1,2-Dichlorobenzene	3.804	146	48501	4.774	ug/ml		93
13) Benzyl alcohol	3.832	79	30729	4.990	ug/ml		99
14) Bis(2-chloroisopropyl)...	3.985	45	62612	5.271	ug/ml	#	68
15) 2-Methylphenol	3.997	108	34301	4.800	ug/ml		99
16) Hexachloroethane	4.137	117	18292	4.688	ug/ml	#	52
17) n-Nitrosodi-n-propylamine	4.115	70	27252	4.771	ug/ml	#	85
18) 3-Methylphenol/4-Methy...	4.165	108	37139	4.744	ug/ml		99
20) Nitrobenzene	4.230	77	41557	5.135	ug/ml		94
21) Isophorone	4.485	82	73431	4.936	ug/ml	#	93
22) 2-Nitrophenol	4.553	139	21521	5.253	ug/ml	#	87

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : ABN1216na.D
Acq On : 16 Dec 2024 11:28 pm
Operator : Dakota:ljg
Sample : WG2009953-3,32,,ABN RVT CCV Lot # 11043
Misc : WG2009953,,ical21680
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Dec 17 10:49:30 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 10:50:27 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	4.675	107	33573	4.607	ug/ml	99
24) Bis(2-chloroethoxy)met...	4.752	93	46835	5.053	ug/ml#	94
25) 2,4-Dichlorophenol	4.802	162	41434	4.870	ug/ml#	93
26) 1,2,4-Trichlorobenzene	4.864	180	47016	4.566	ug/ml	95
38) Naphthalene	4.917	128	126726	4.623	ug/ml	100
39) Benzoic Acid	4.790	105	25697	4.528	ug/ml	89
40) 4-Chloroaniline	5.020	65	14650	4.862	ug/ml#	68
41) Hexachlorobutadiene	5.088	225	29370	4.562	ug/ml	99
42) p-Chloro-m-cresol	5.548	107	34723	4.808	ug/ml	90
43) 2-Methylnaphthalene	5.601	142	88726	4.677	ug/ml	95
44) 1-Methylnaphthalene	5.688	115	28617	4.745	ug/ml	94
45) Hexachlorocyclopentadiene	5.775	237	33229	4.899	ug/ml	98
46) 2,4,6-Trichlorophenol	5.902	196	35649	4.992	ug/ml	99
47) 2,4,5-Trichlorophenol	5.930	196	37251	4.666	ug/ml	100
49) 2-Chloronaphthalene	6.055	162	98354	4.631	ug/ml	93
50) 2-Nitroaniline	6.185	138	27557	5.070	ug/ml#	79
51) 1,4-Dinitrobenzene	6.325	168	12608	5.341	ug/ml	94
52) 1,3-Dinitrobenzene	6.400	168	14149	5.004	ug/ml#	1
53) Dimethyl phthalate	6.409	163	122277	4.953	ug/ml#	97
54) Acenaphthylene	6.437	152	153932	4.935	ug/ml	99
55) 2,6-Dinitrotoluene	6.440	165	24915	5.406	ug/ml	90
56) 1,2-Dinitrobenzene	6.471	168	8746	5.299	ug/ml#	84
66) 3-Nitroaniline	6.580	138	26289	5.002	ug/ml	89
67) Acenaphthene	6.608	154	87658	4.429	ug/ml	86
68) 2,4-Dinitrophenol	6.682	184	13157	4.111	ug/ml#	87
69) Dibenzofuran	6.776	168	152258	4.461	ug/ml	91
70) 2,4-Dinitrotoluene	6.813	165	35792	5.434	ug/ml#	85
71) 4-Nitrophenol	6.810	65	21866	5.581	ug/ml#	89
72) 2,3,5,6-Tetrachlorophenol	6.881	232	36345	4.895	ug/ml	98
73) 2,3,4,6-Tetrachlorophenol	6.925	232	35572	4.887	ug/ml	99
74) Diethyl phthalate	7.093	149	127919	4.775	ug/ml	97
75) Fluorene	7.099	166	119135	4.558	ug/ml	90
76) 4-Chlorophenyl phenyl ...	7.142	204	59543	4.420	ug/ml#	88
77) 4-Nitroaniline	7.155	138	26615	5.239	ug/ml#	79
78) 4,6-Dinitro-o-cresol	7.192	198	20940	5.259	ug/ml#	62
79) NDPA/DPA	7.261	169	103096	4.534	ug/ml	92
80) Azobenzene	7.285	77	106686	4.896	ug/ml	94
82) 4-Bromophenyl phenyl e...	7.596	248	39929	4.500	ug/ml#	80
83) Hexachlorobenzene	7.624	284	52603	4.710	ug/ml#	78
84) Pentachlorophenol	7.829	266	25835	4.267	ug/ml	96
91) Phenanthrene	7.991	178	202722	4.552	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : ABN1216na.D
Acq On : 16 Dec 2024 11:28 pm
Operator : Dakota:ljg
Sample : WG2009953-3,32,,ABN RVT CCV Lot # 11043
Misc : WG2009953,,ical21680
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Dec 17 10:49:30 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 10:50:27 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) Anthracene	8.041	178	200729	4.595	ug/ml	99
93) Carbazole	8.224	167	188716	4.708	ug/ml	98
94) Di-n-butylphthalate	8.662	149	226874	4.992	ug/ml#	99
95) Fluoranthene	9.113	202	247166	4.615	ug/ml#	93
96) Benzidine	9.299	184	141723	4.876	ug/ml#	95
97) Pyrene	9.315	202	268254	4.687	ug/ml	99
99) Butyl benzyl phthalate	10.067	149	99767	5.125	ug/ml#	83
107) Benzo(a)anthracene	10.471	228	270407	4.494	ug/ml	99
108) 3,3'-Dichlorobenzidine	10.502	252	107266	4.785	ug/ml#	96
109) Chrysene	10.502	228	260284	4.346	ug/ml	97
110) Bis(2-ethylhexyl)phtha...	10.679	149	166432	5.160	ug/ml#	87
111) Di-n-octylphthalate	11.310	149	270662	5.031	ug/ml#	73
112) Benzo(b)fluoranthene	11.488	252	294234	4.667	ug/ml#	94
113) Benzo(k)fluoranthene	11.512	252	277031	4.511	ug/ml#	94
114) Benzo(a)pyrene	11.774	252	261318	4.645	ug/ml#	93
116) Indeno(1,2,3-cd)pyrene	12.734	276	287054	4.566	ug/mL#	89
117) Dibenzo(a,h)anthracene	12.768	278	278635	4.510	ug/ml#	90
118) Benzo(ghi)perylene	12.936	276	280745	4.623	ug/ml#	87

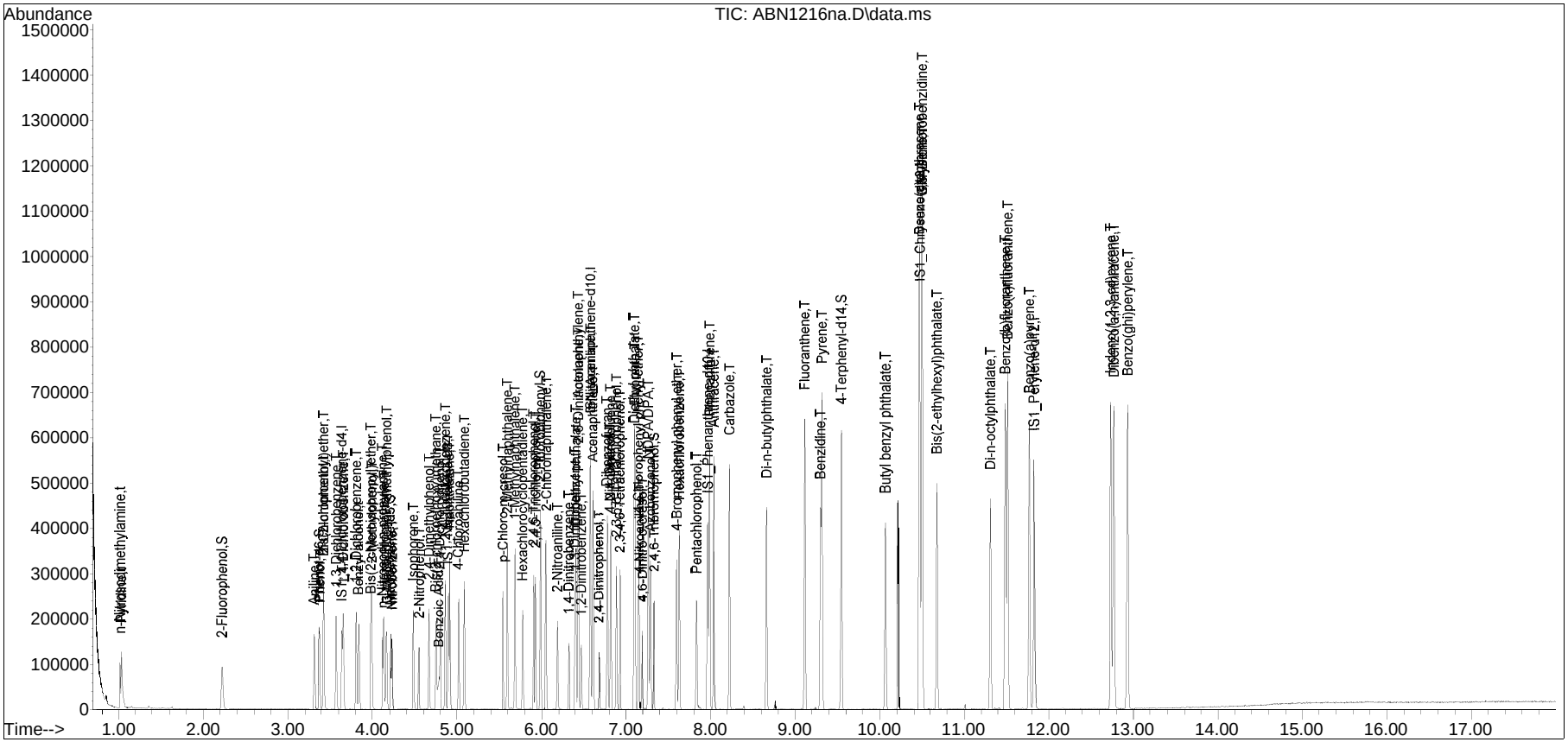
(#) = qualifier out of range (m) = manual integration (+) = signals summed

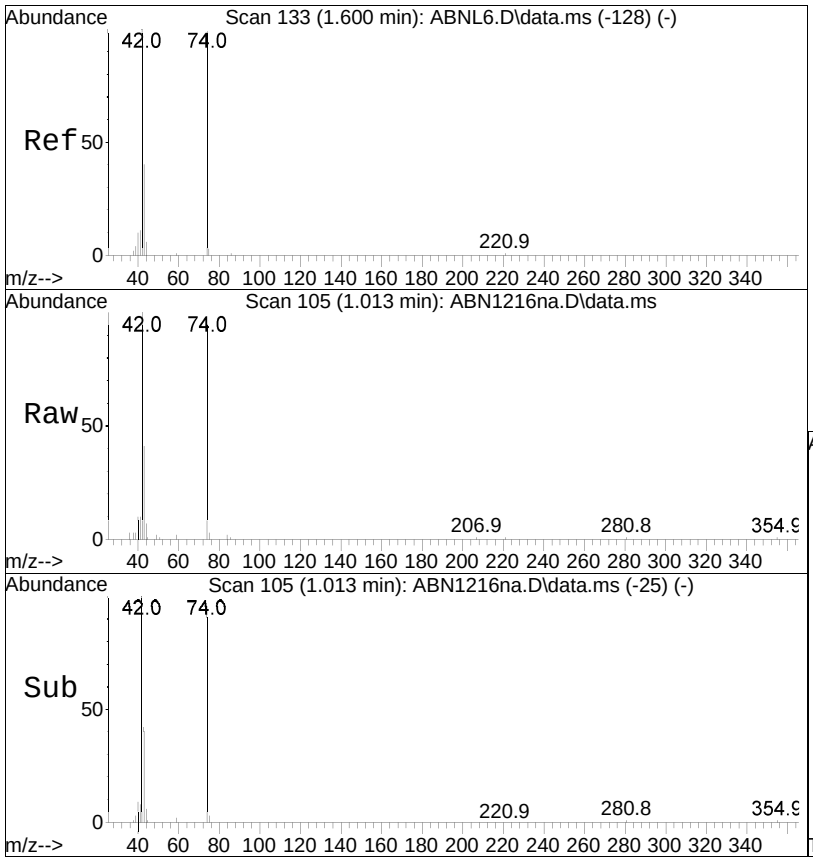
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : ABN1216na.D
Acq On : 16 Dec 2024 11:28 pm
Operator : Dakota:ljg
Sample : WG2009953-3,32,,ABN RVT CCV Lot # 11043
Misc : WG2009953,,ical21680
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Dec 17 10:49:30 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 10:50:27 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

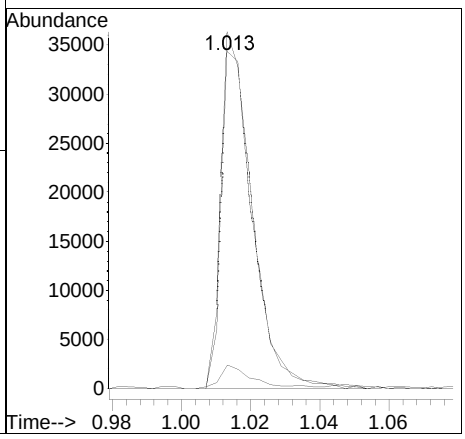


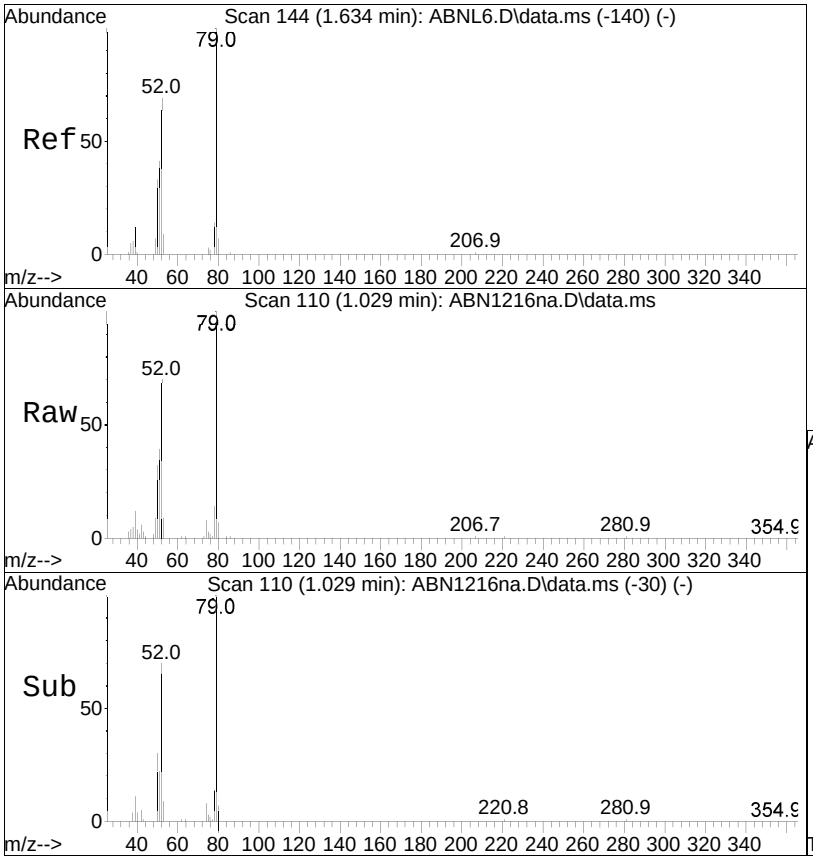


#2
n-Nitrosodimethylamine
Concen: 5.23 ug/ml
RT: 1.013 min Scan# 105
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion: 74 Resp: 21834

Ion	Ratio	Lower	Upper
74	100		
42	104.4	100.0	150.0
44	7.5	6.7	10.1

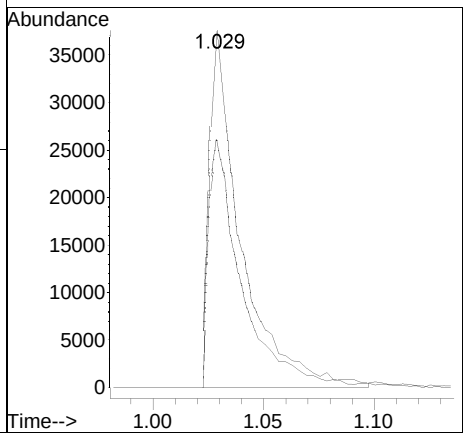


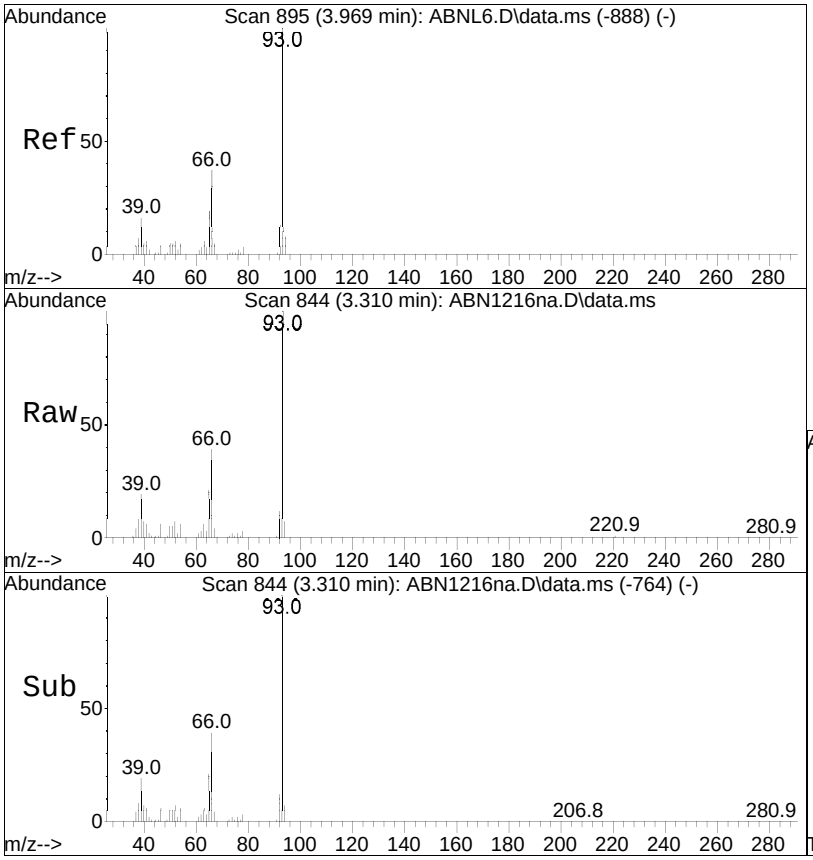


#3
Pyridine
Concen: 5.83 ug/ml
RT: 1.029 min Scan# 110
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion: 79 Resp: 36844

Ion	Ratio	Lower	Upper
79	100		
52	72.7	93.1	139.7#

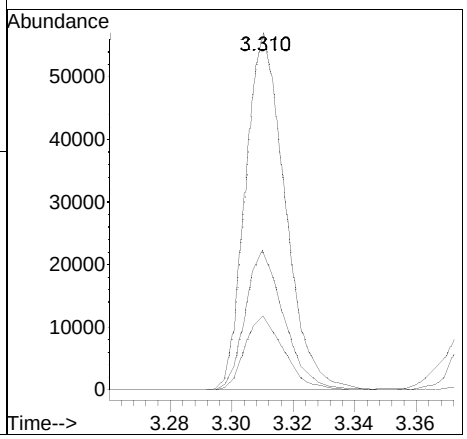


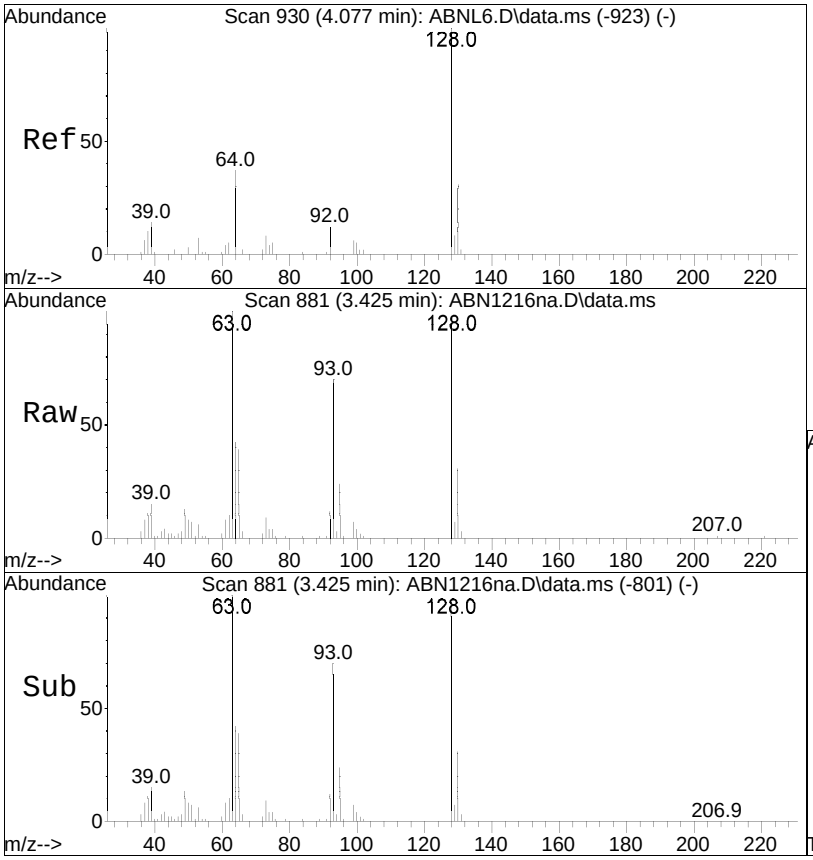


#5
Aniline
Concen: 4.89 ug/ml
RT: 3.310 min Scan# 844
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion: 93 Resp: 50706

Ion	Ratio	Lower	Upper
93	100		
66	38.3	32.6	49.0
65	20.4	17.6	26.4

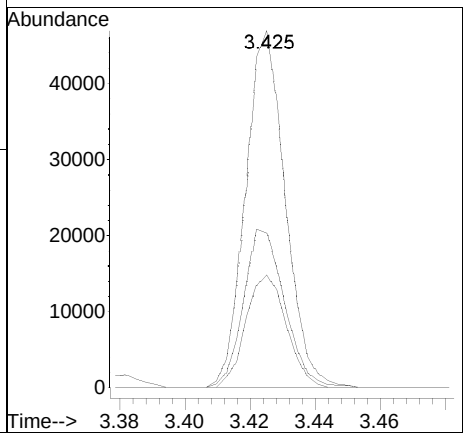


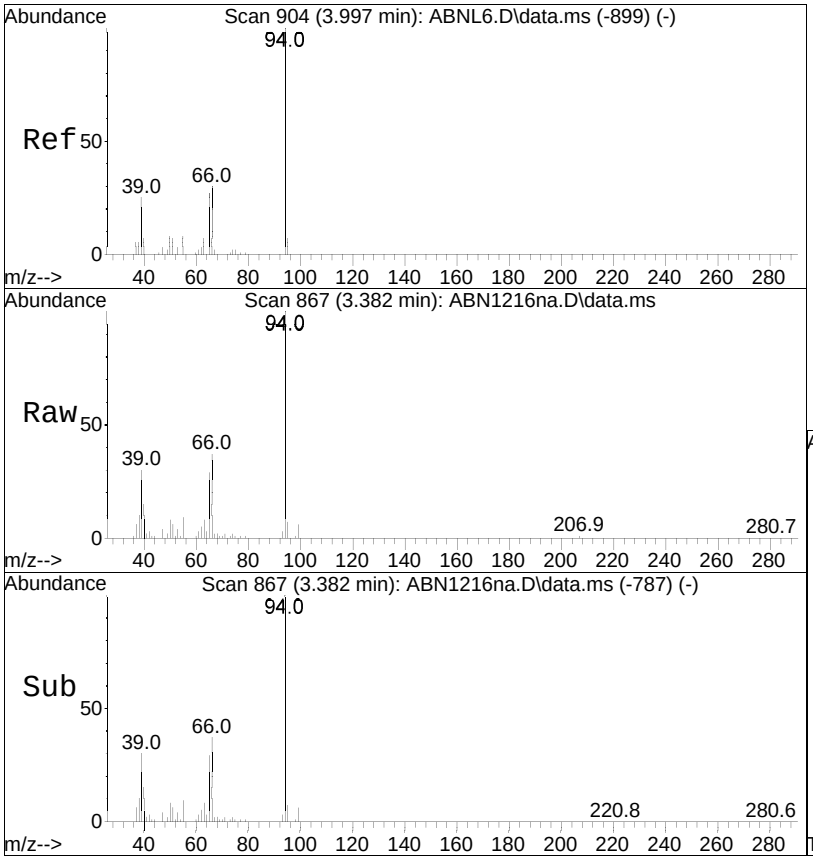


#6
2-Chlorophenol
Concen: 4.87 ug/ml
RT: 3.425 min Scan# 881
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:128 Resp: 39530

Ion	Ratio	Lower	Upper
128	100		
64	46.1	45.1	67.7
130	32.5	26.2	39.4

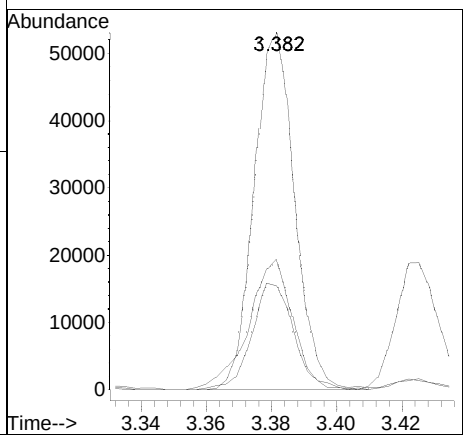


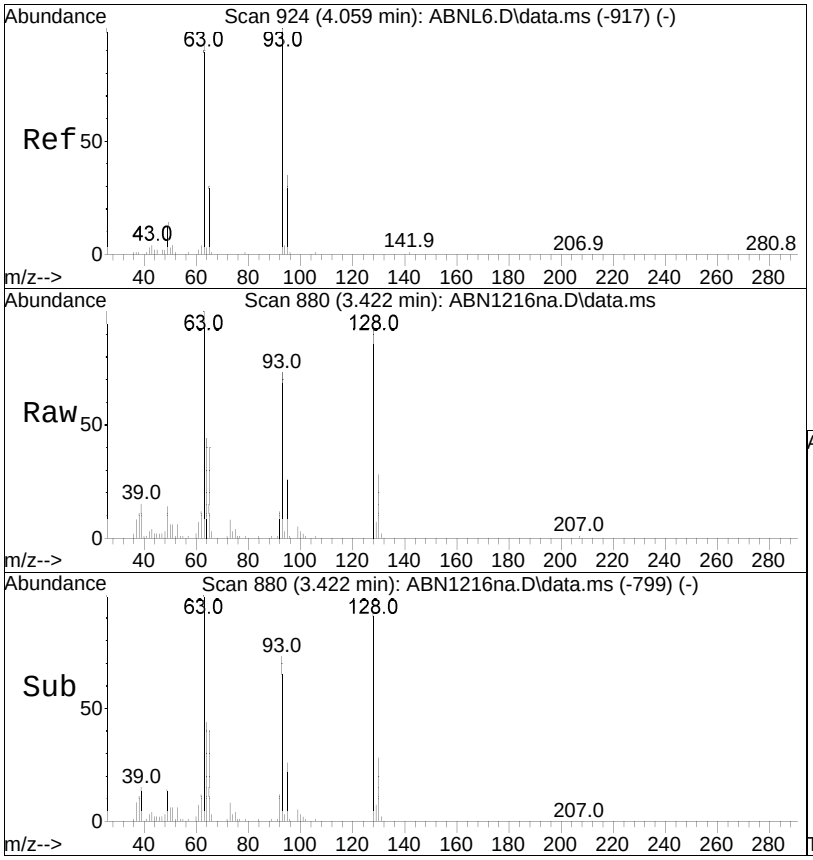


#8
Phenol
Concen: 4.85 ug/ml
RT: 3.382 min Scan# 867
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion: 94 Resp: 45655

Ion	Ratio	Lower	Upper
94	100		
65	30.6	26.0	39.0
66	40.2	33.8	50.8

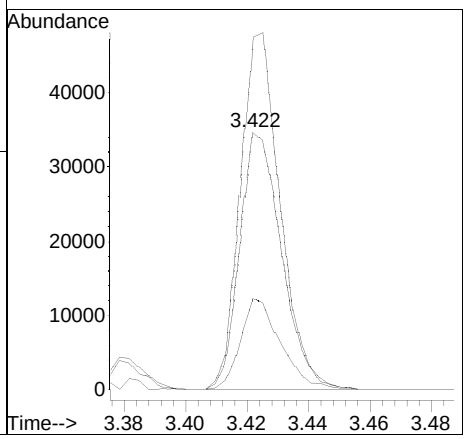


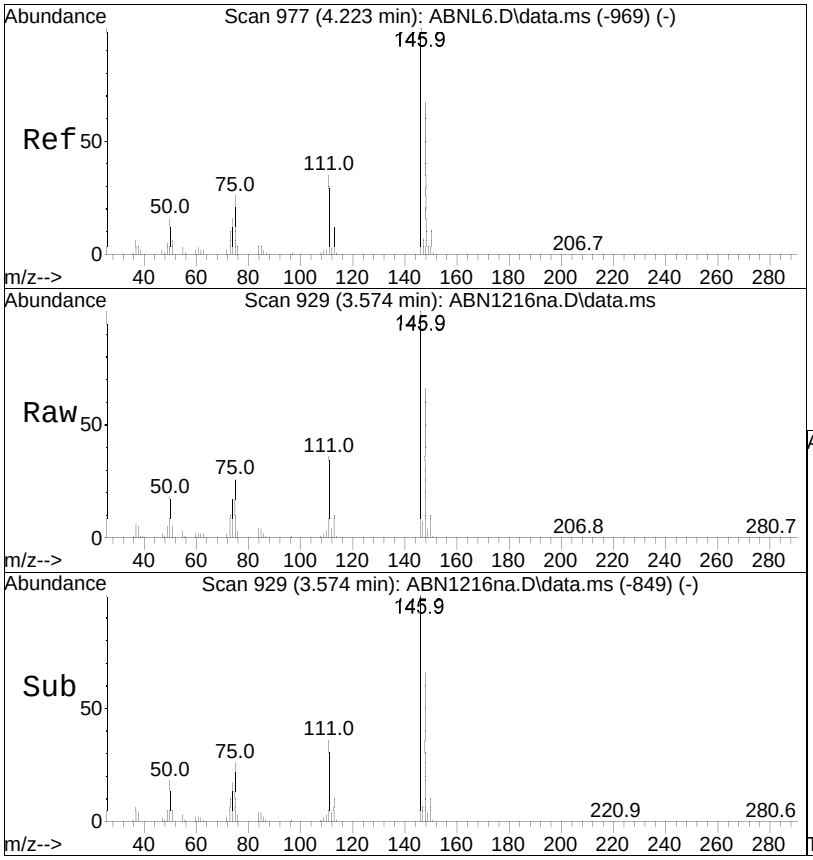


#9
Bis(2-chloroethyl)ether
Concen: 4.83 ug/ml
RT: 3.422 min Scan# 880
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion: 93 Resp: 32545

Ion	Ratio	Lower	Upper
93	100		
63	132.5	74.6	111.8#
95	34.2	25.9	38.9

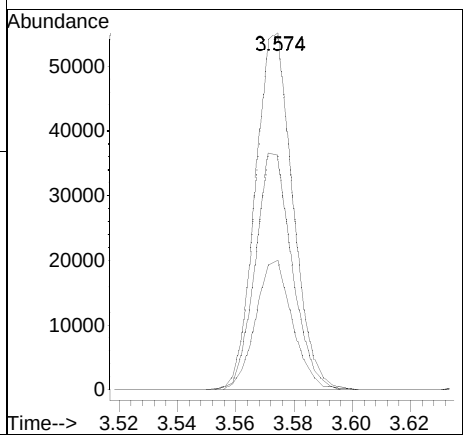


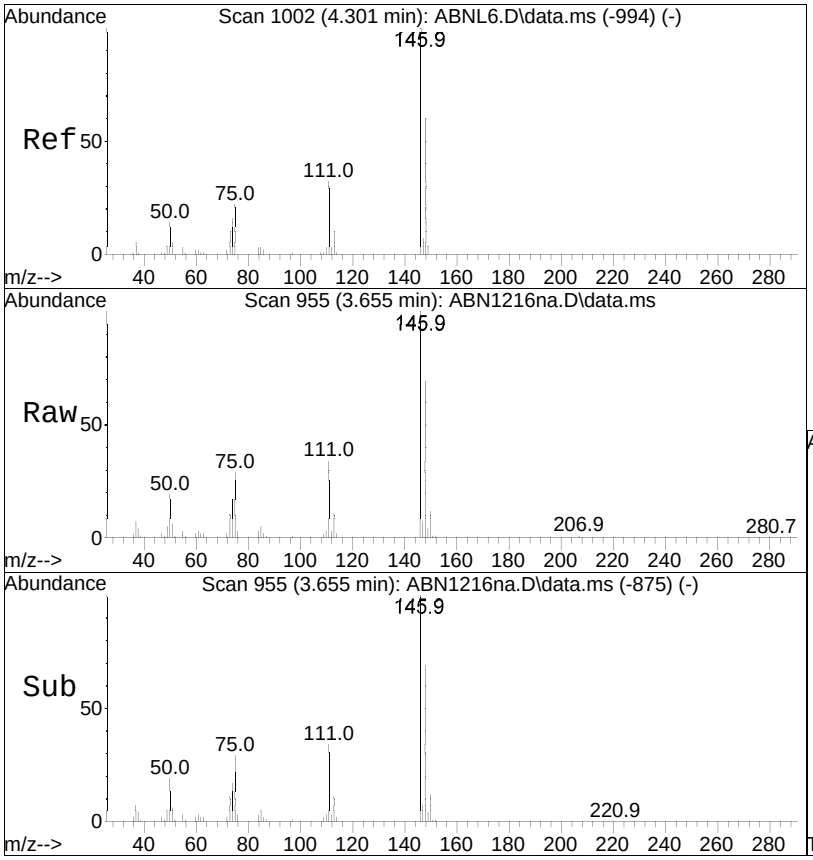


#10
1,3-Dichlorobenzene
Concen: 4.71 ug/ml
RT: 3.574 min Scan# 929
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:146 Resp: 49179

Ion	Ratio	Lower	Upper
146	100		
111	35.8	34.3	51.5
148	65.4	50.8	76.2

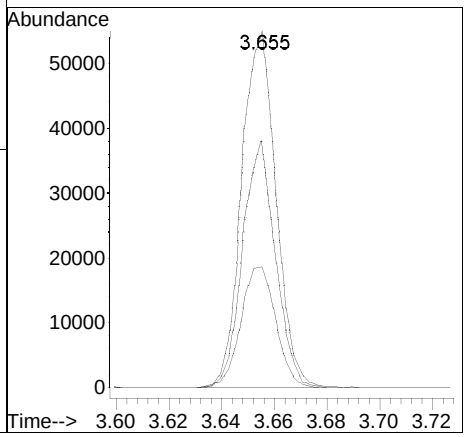


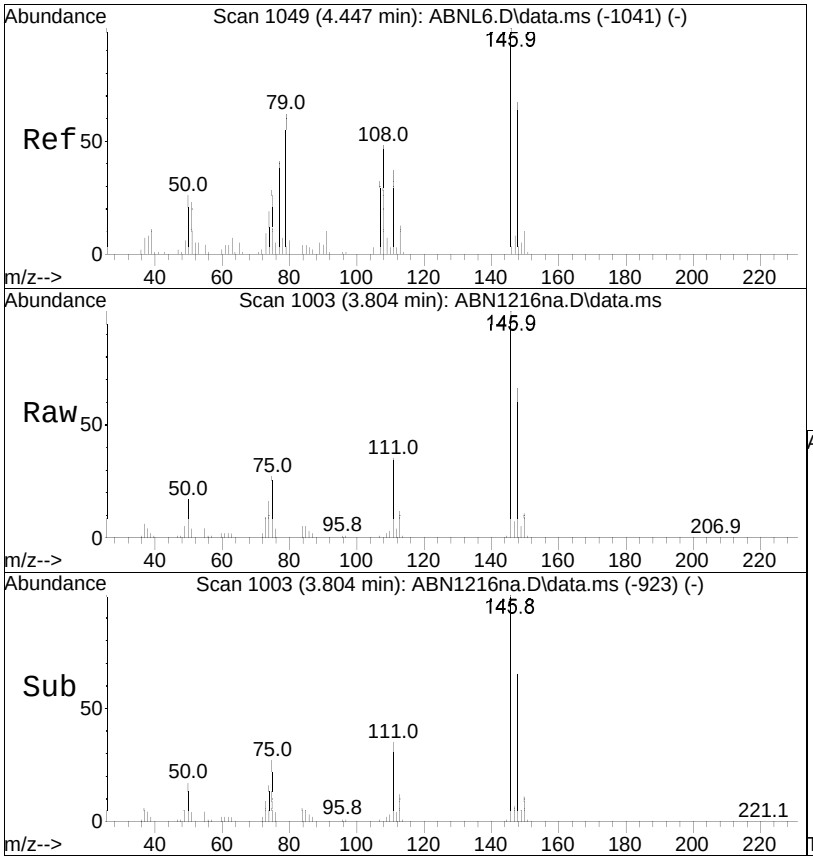


#11
1,4-Dichlorobenzene
Concen: 4.64 ug/ml
RT: 3.655 min Scan# 955
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:146 Resp: 49461

Ion	Ratio	Lower	Upper
146	100		
148	66.2	50.7	76.1
111	34.9	33.4	50.0

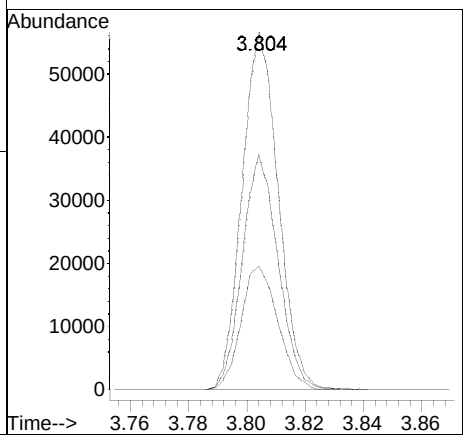


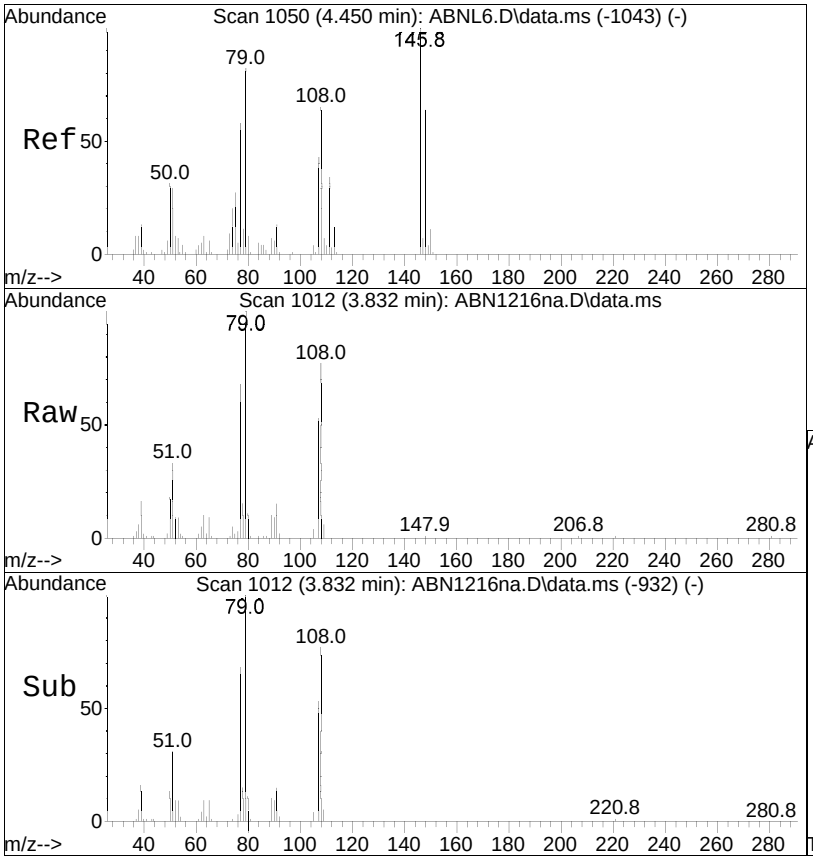


#12
1,2-Dichlorobenzene
Concen: 4.77 ug/ml
RT: 3.804 min Scan# 1003
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:146 Resp: 48501

Ion	Ratio	Lower	Upper
146	100		
111	35.5	34.6	52.0
148	65.0	50.2	75.4

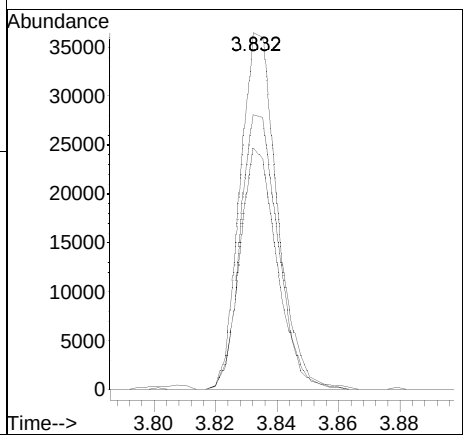


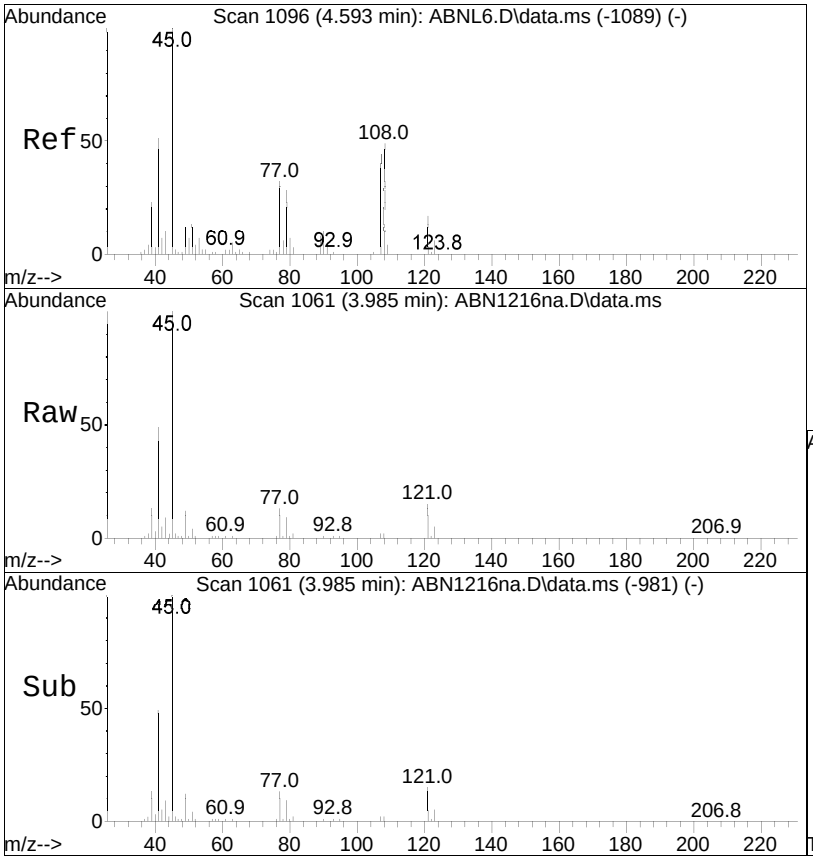


#13
Benzyl alcohol
Concen: 4.99 ug/ml
RT: 3.832 min Scan# 1012
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion: 79 Resp: 30729

Ion	Ratio	Lower	Upper
79	100		
77	67.3	54.9	82.3
108	78.0	63.1	94.7

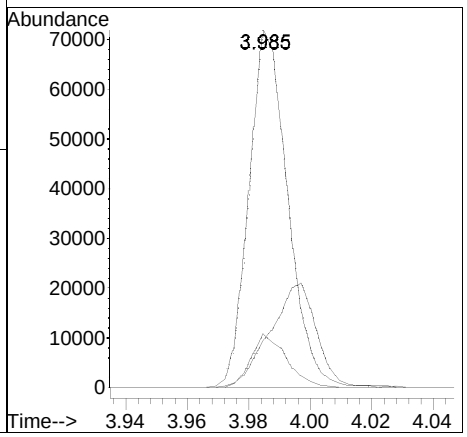


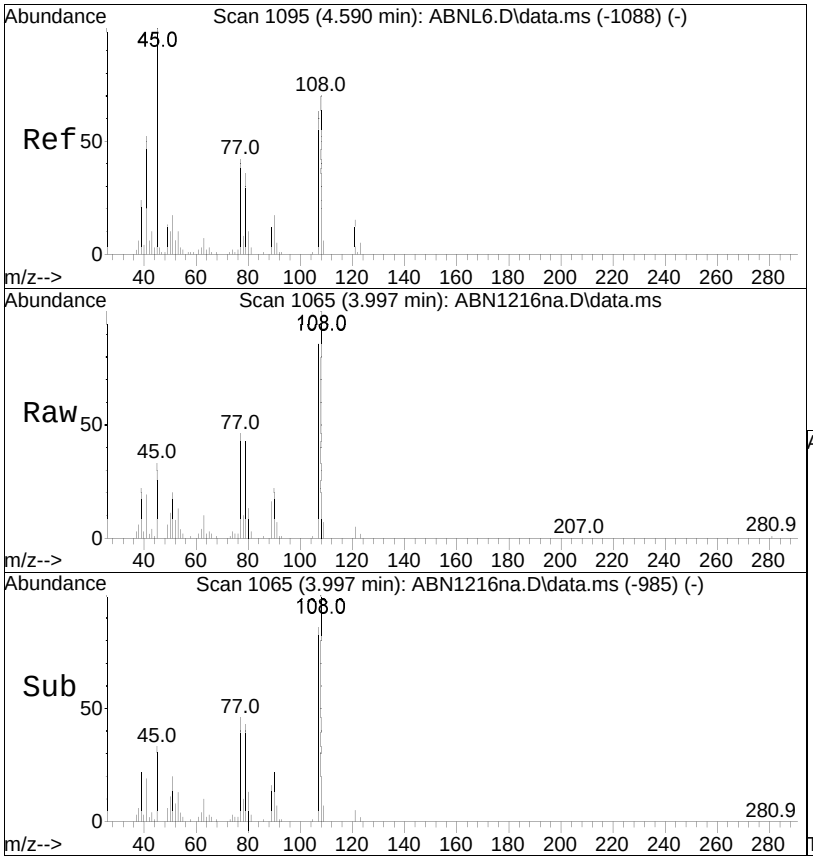


#14
Bis(2-chloroisopropyl)ether
Concen: 5.27 ug/ml
RT: 3.985 min Scan# 1061
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion: 45 Resp: 62612

Ion	Ratio	Lower	Upper
45	100		
121	13.7	9.8	14.6
77	35.0	6.1	9.1#

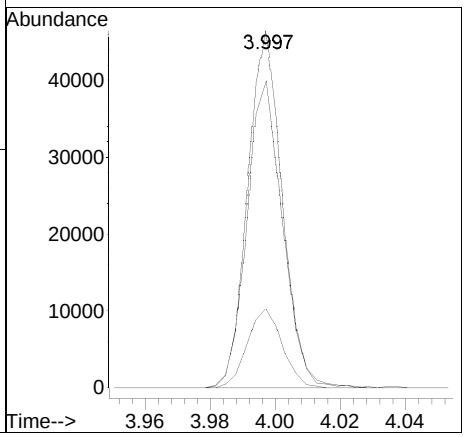


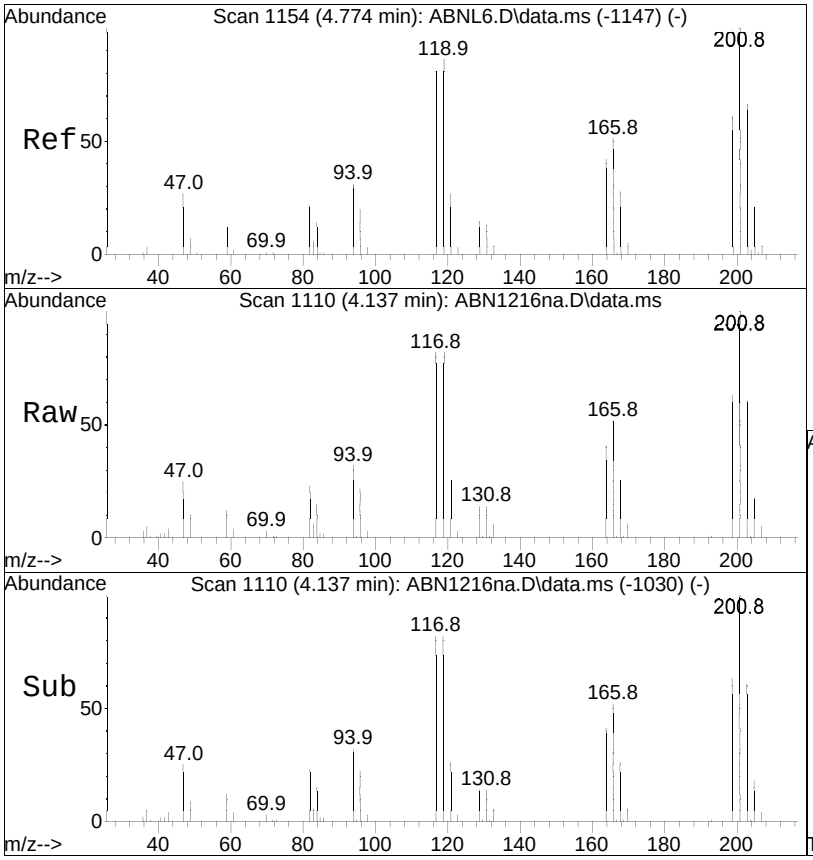


#15
2-Methylphenol
Concen: 4.80 ug/ml
RT: 3.997 min Scan# 1065
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:108 Resp: 34301

Ion	Ratio	Lower	Upper
108	100		
107	88.3	70.7	106.1
90	22.3	18.7	28.1

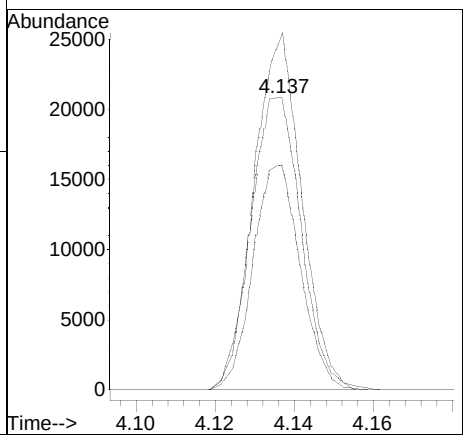


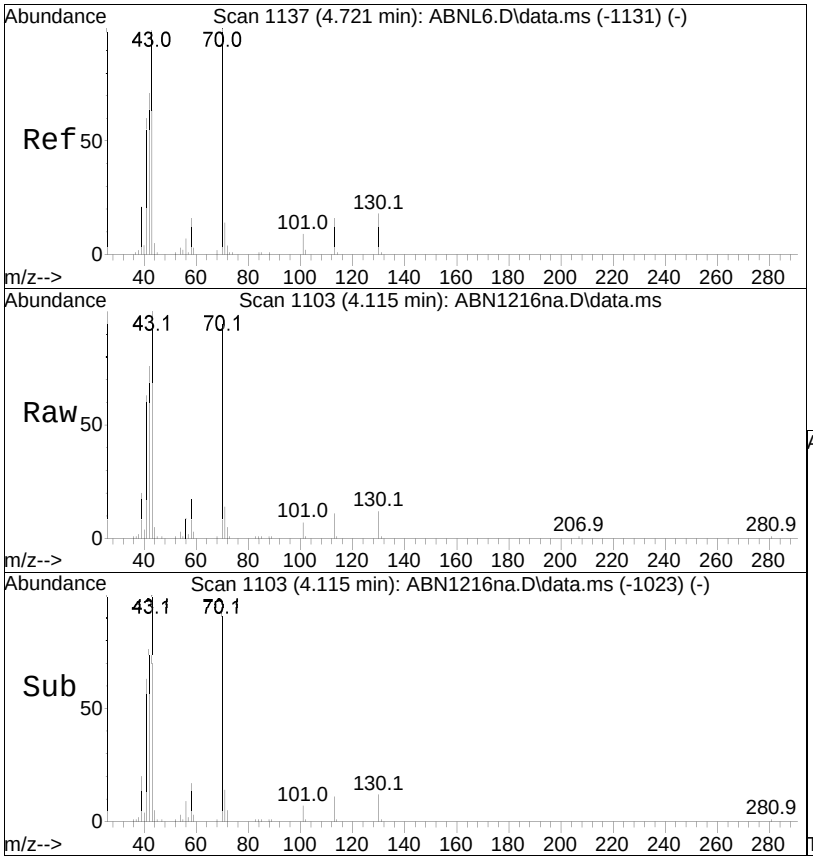


#16
Hexachloroethane
Concen: 4.69 ug/ml
RT: 4.137 min Scan# 1110
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:117 Resp: 18292

Ion	Ratio	Lower	Upper
117	100		
201	116.7	58.6	87.8#
199	73.1	36.9	55.3#

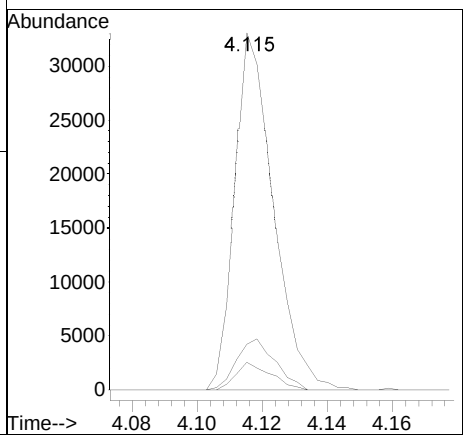


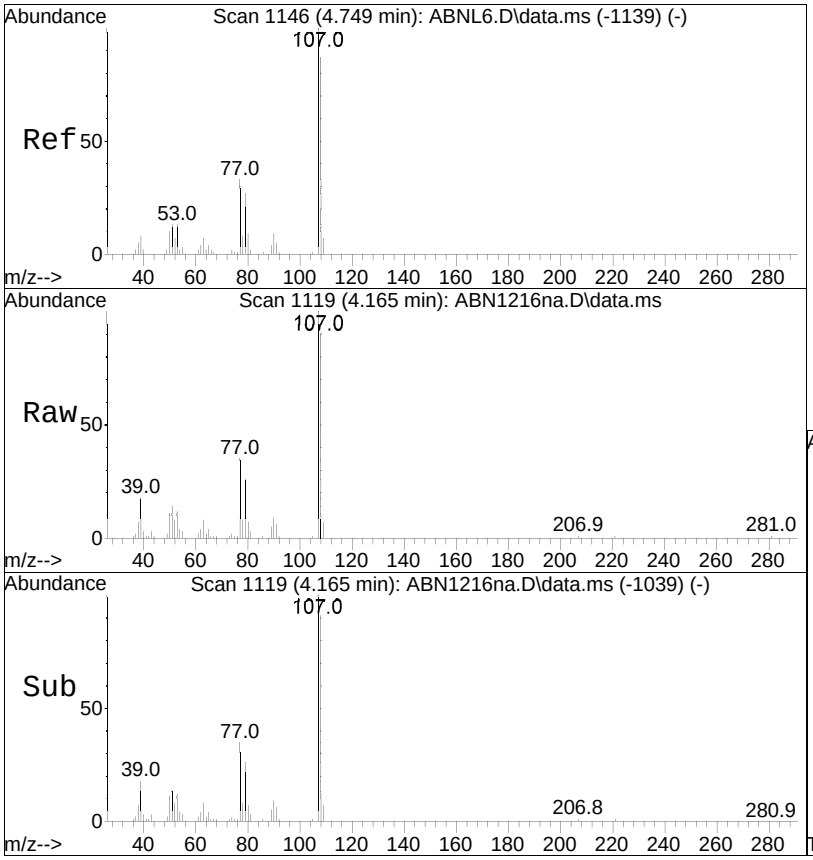


#17
n-Nitrosodi-n-propylamine
Concen: 4.77 ug/ml
RT: 4.115 min Scan# 1103
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion: 70 Resp: 27252

Ion	Ratio	Lower	Upper
70	100		
130	14.2	18.2	27.4#
101	7.0	7.8	11.8#

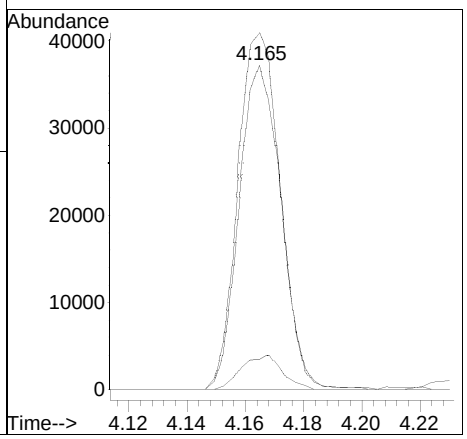


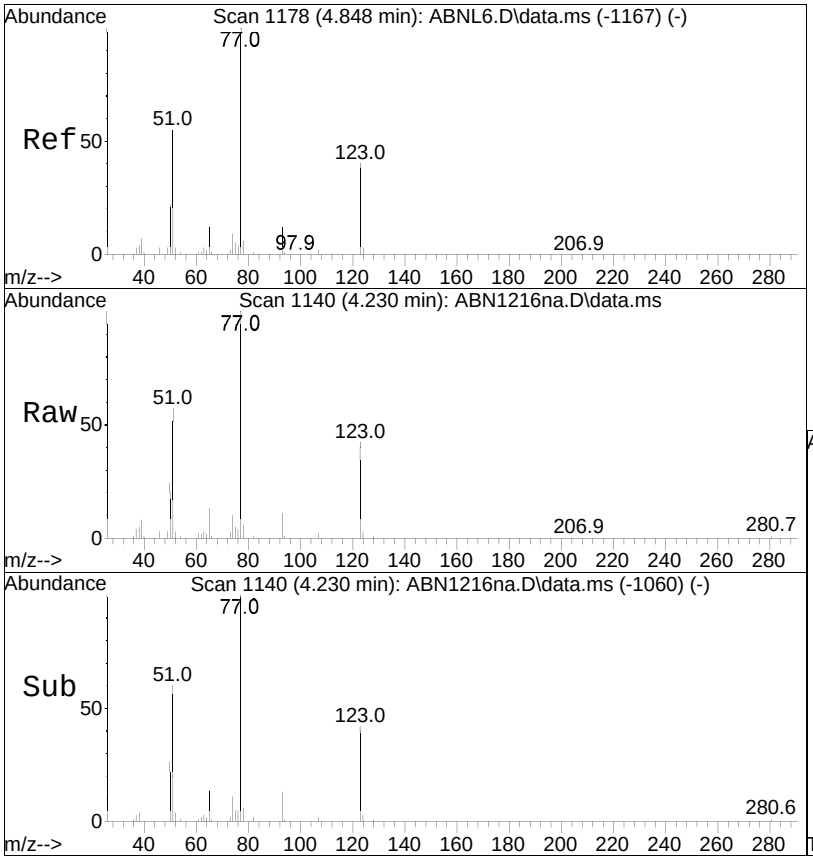


#18
3-Methylphenol/4-Methylphenol
Concen: 4.74 ug/ml
RT: 4.165 min Scan# 1119
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:108 Resp: 37139

Ion	Ratio	Lower	Upper
108	100		
107	111.5	88.6	132.8
90	10.4	8.8	13.2

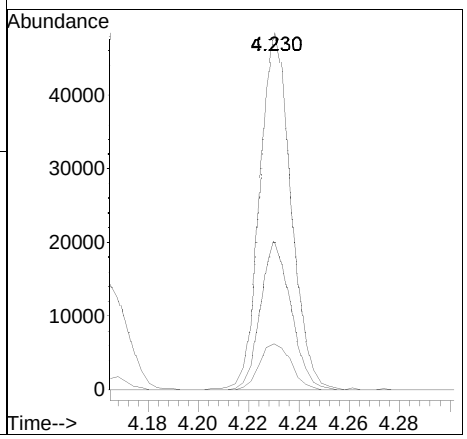


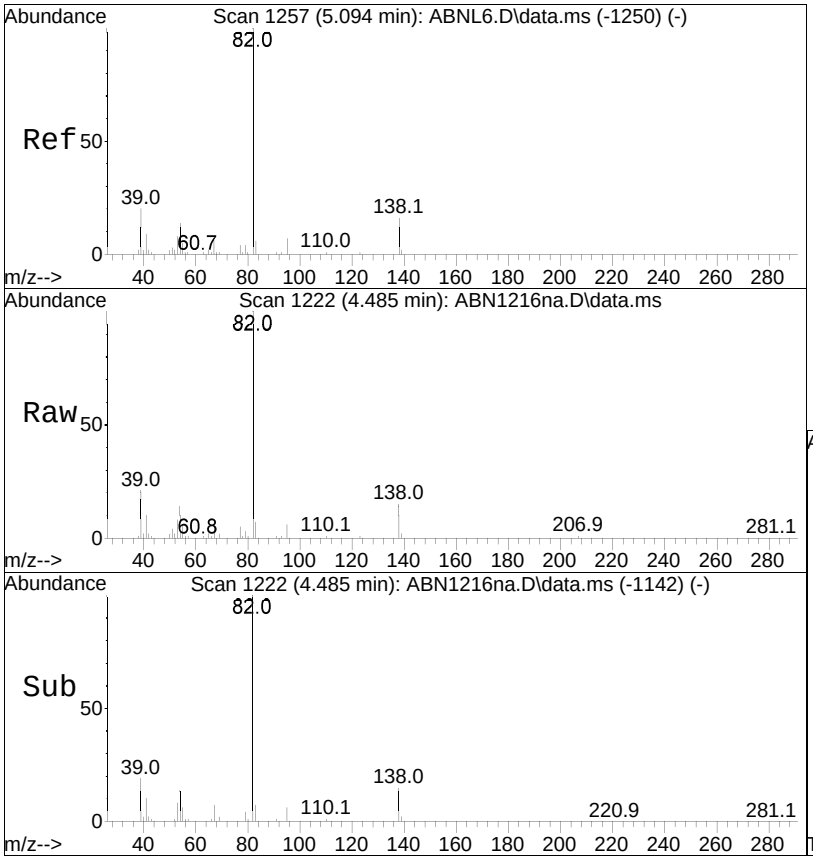


#20
Nitrobenzene
Concen: 5.14 ug/ml
RT: 4.230 min Scan# 1140
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion: 77 Resp: 41557

Ion	Ratio	Lower	Upper
77	100		
123	40.7	36.3	54.5
65	13.2	11.6	17.4

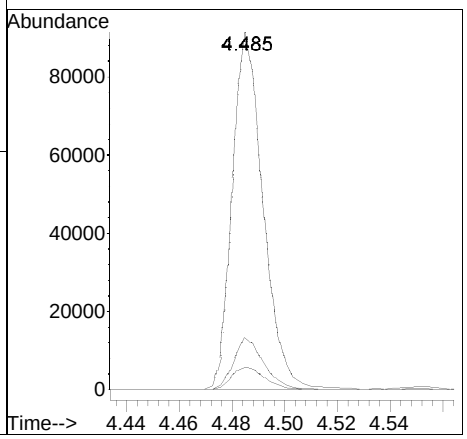


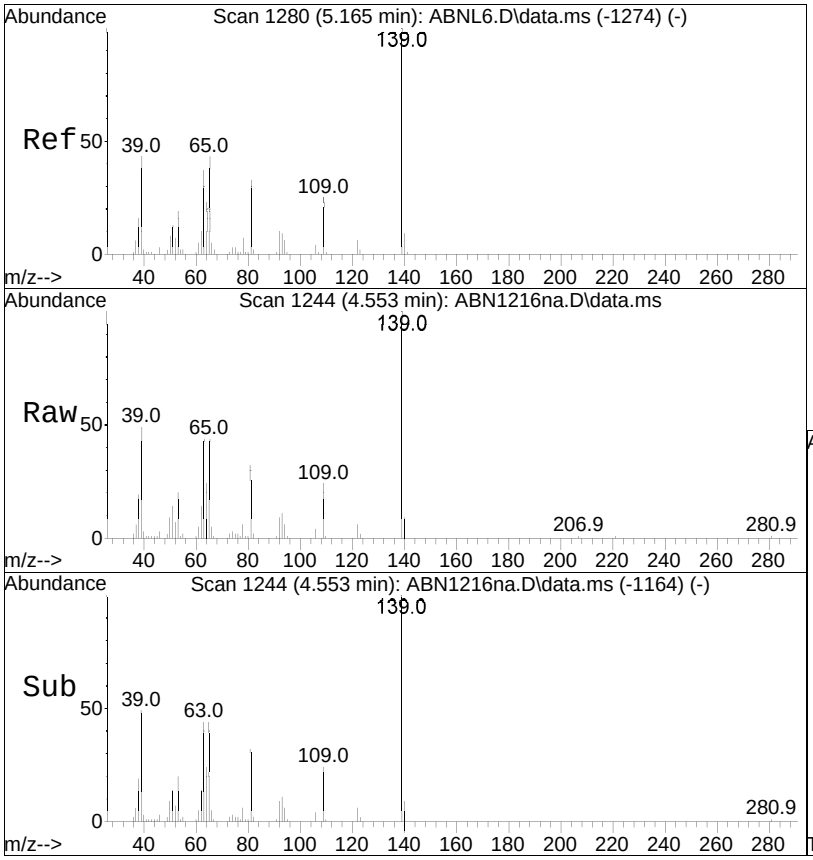


#21
Isophorone
Concen: 4.94 ug/ml
RT: 4.485 min Scan# 1222
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion: 82 Resp: 73431

Ion	Ratio	Lower	Upper
82	100		
138	14.2	14.7	22.1#
95	6.7	5.2	7.8

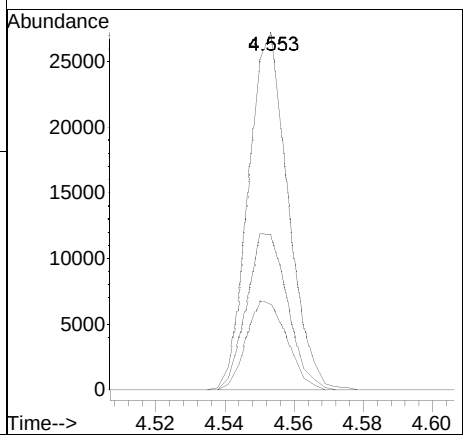


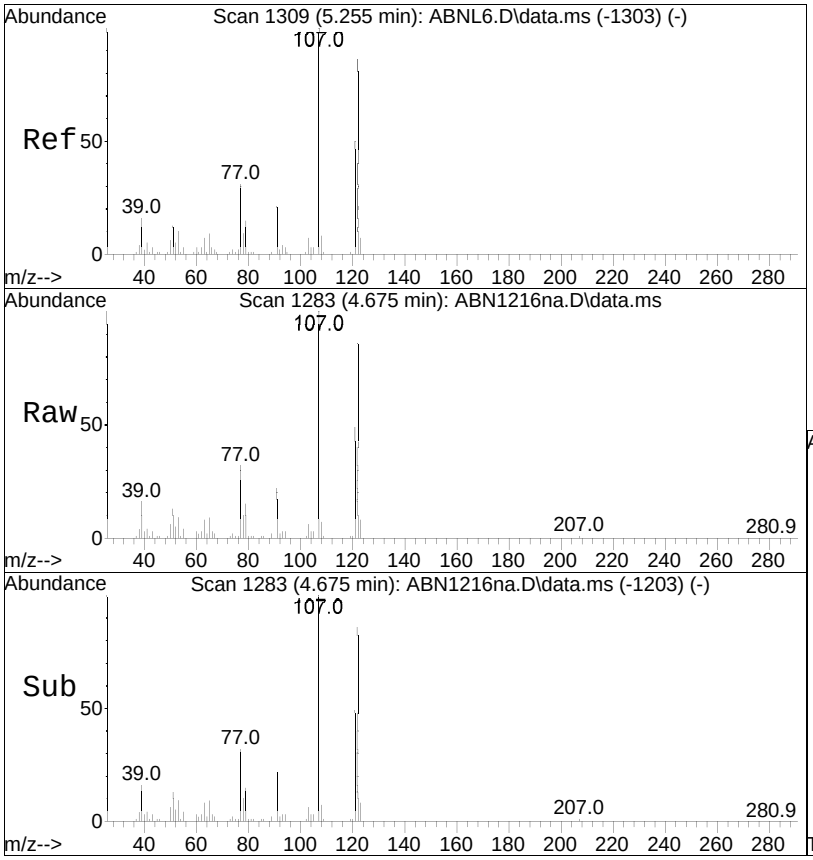


#22
2-Nitrophenol
Concen: 5.25 ug/ml
RT: 4.553 min Scan# 1244
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:139 Resp: 21521

Ion	Ratio	Lower	Upper
139	100		
109	25.6	19.4	29.0
65	45.1	46.1	69.1#

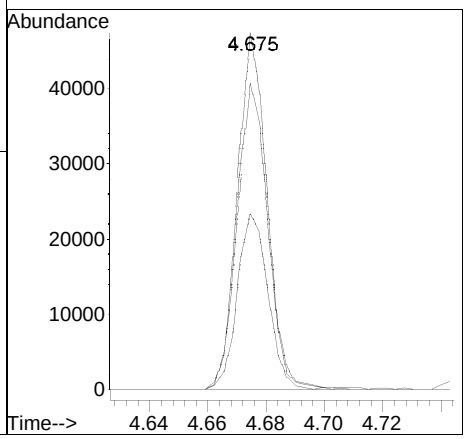


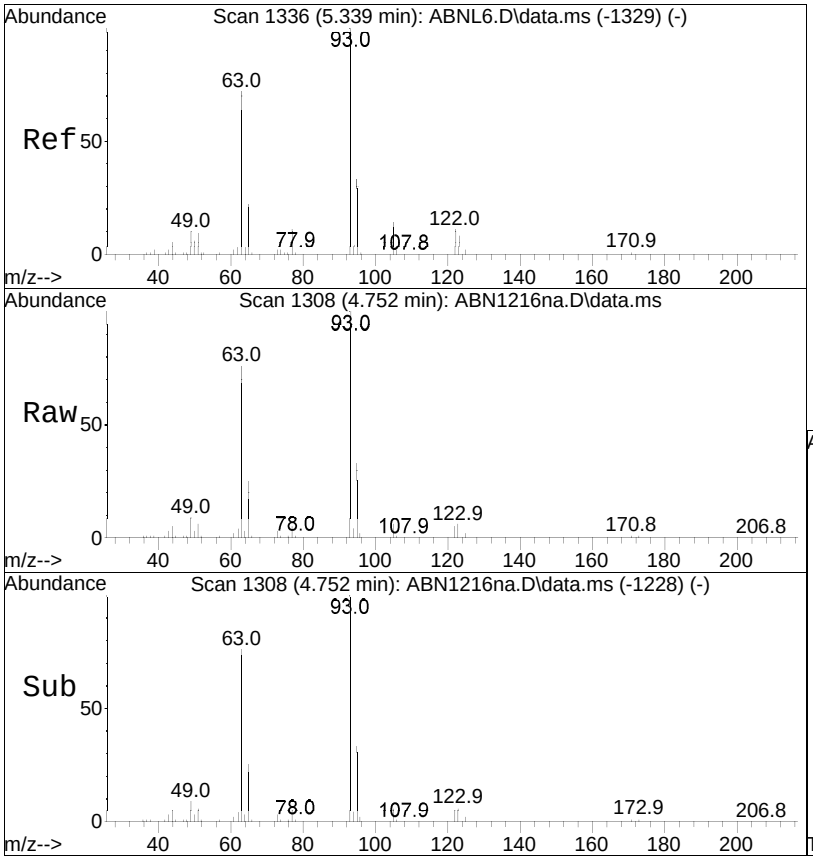


#23
2,4-Dimethylphenol
Concen: 4.61 ug/ml
RT: 4.675 min Scan# 1283
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:107 Resp: 33573

Ion	Ratio	Lower	Upper
107	100		
121	50.8	40.0	60.0
122	88.0	70.2	105.4

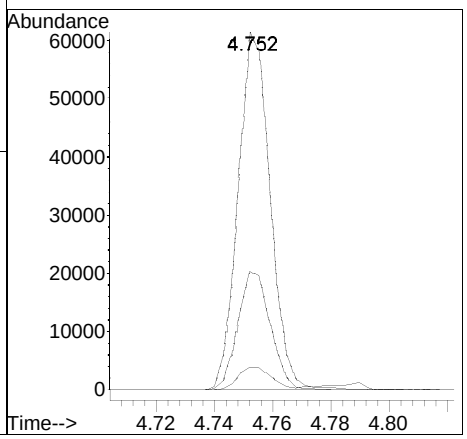


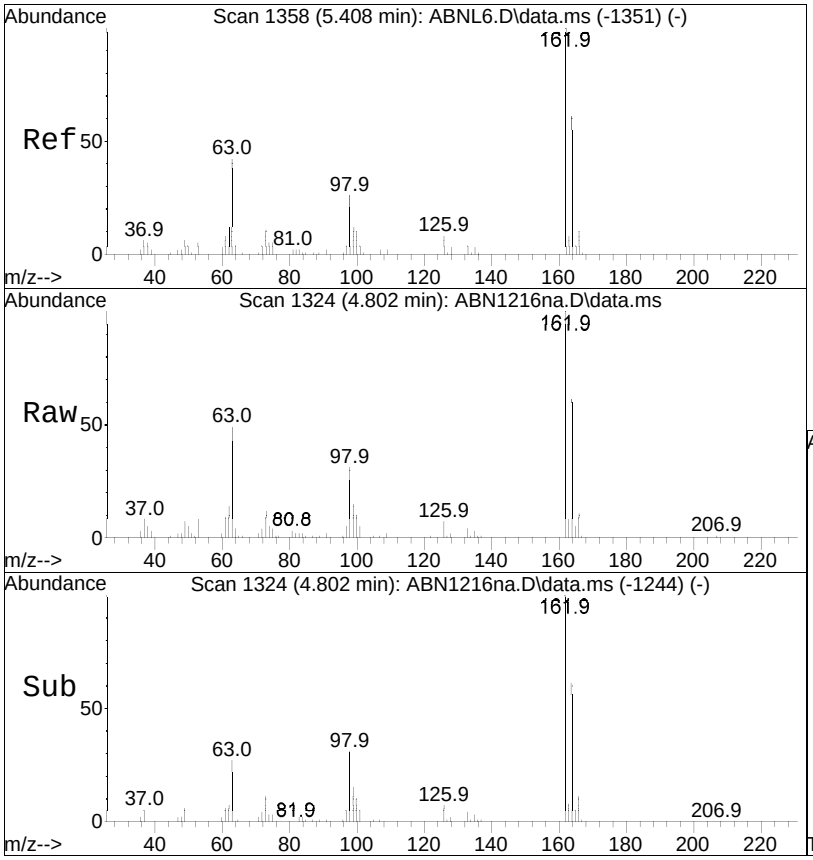


#24
Bis(2-chloroethoxy)methane
Concen: 5.05 ug/ml
RT: 4.752 min Scan# 1308
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion: 93 Resp: 46835

Ion	Ratio	Lower	Upper
93	100		
95	33.6	25.8	38.8
123	6.8	10.1	15.1#

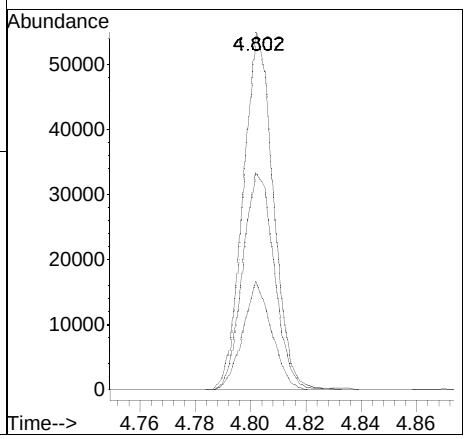


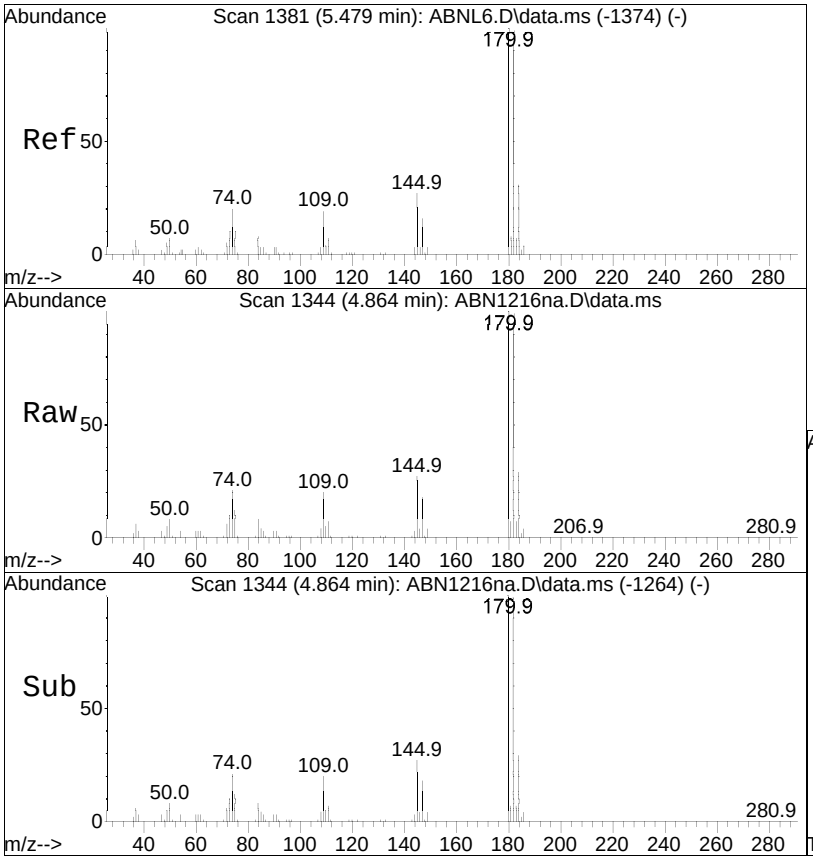


#25
2,4-Dichlorophenol
Concen: 4.87 ug/ml
RT: 4.802 min Scan# 1324
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:162 Resp: 41434

Ion	Ratio	Lower	Upper
162	100		
164	63.6	51.0	76.4
98	28.9	32.2	48.2#

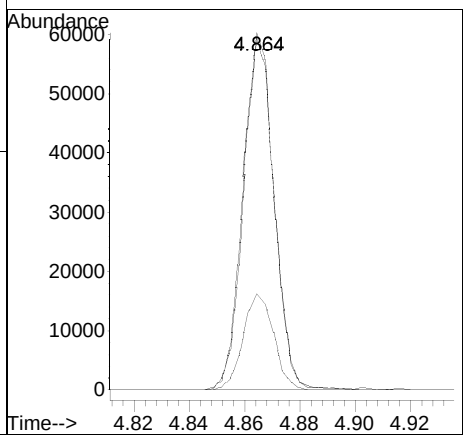


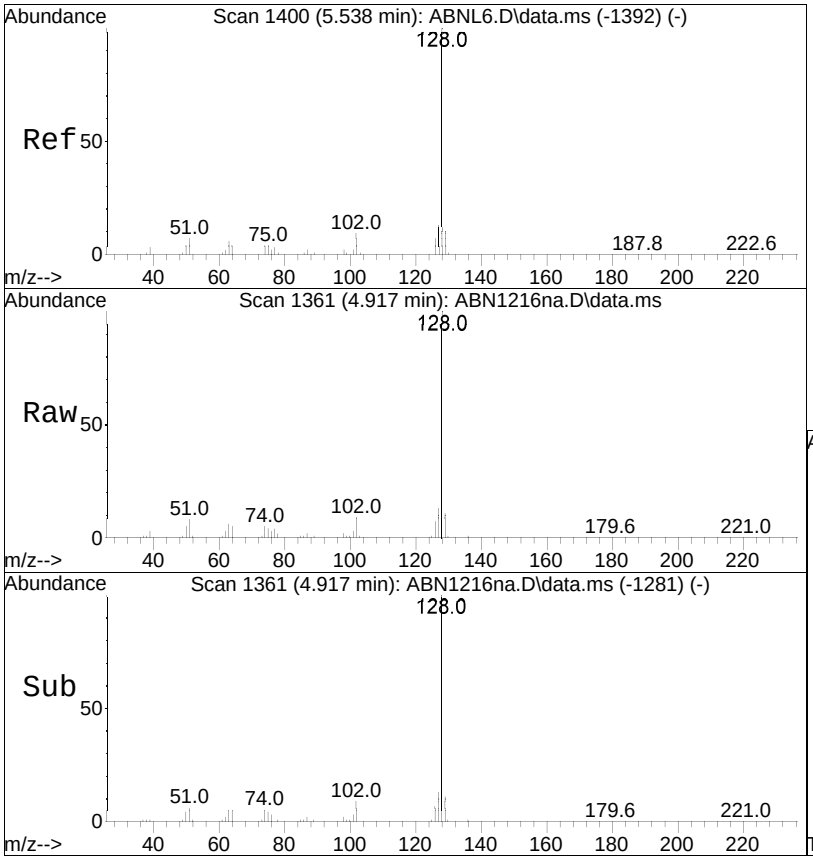


#26
1,2,4-Trichlorobenzene
Concen: 4.57 ug/ml
RT: 4.864 min Scan# 1344
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:180 Resp: 47016

Ion	Ratio	Lower	Upper
180	100		
182	97.5	76.0	114.0
145	26.4	25.7	38.5

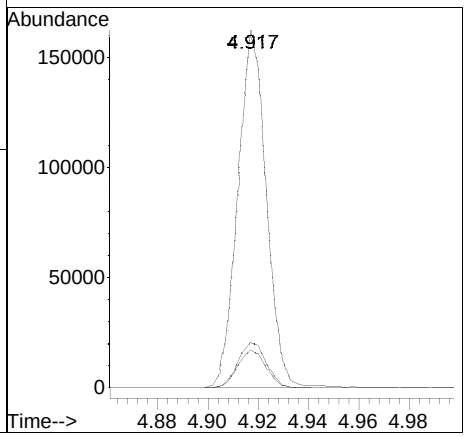


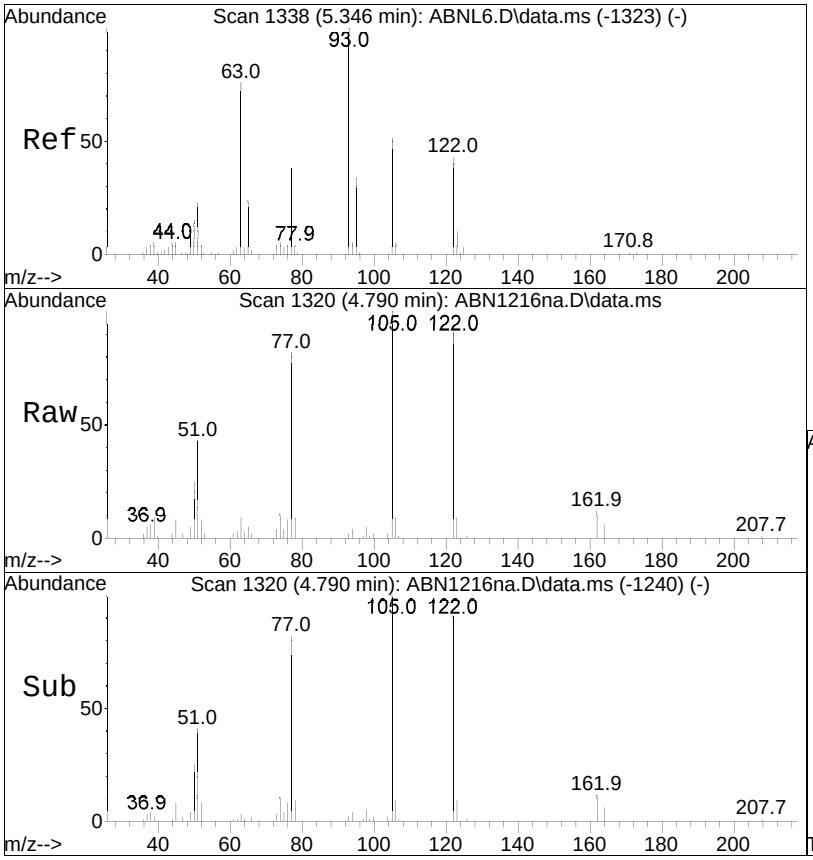


#38
Naphthalene
Concen: 4.62 ug/ml
RT: 4.917 min Scan# 1361
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:128 Resp: 126726

Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.7	13.1
127	12.9	10.3	15.5

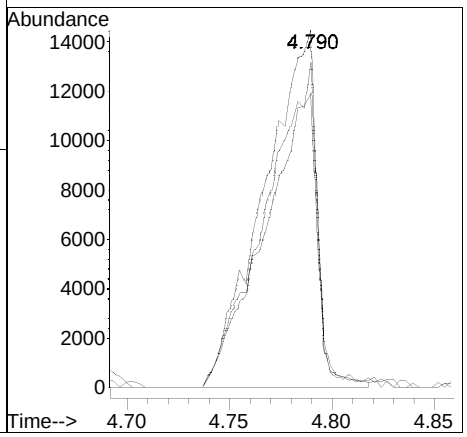


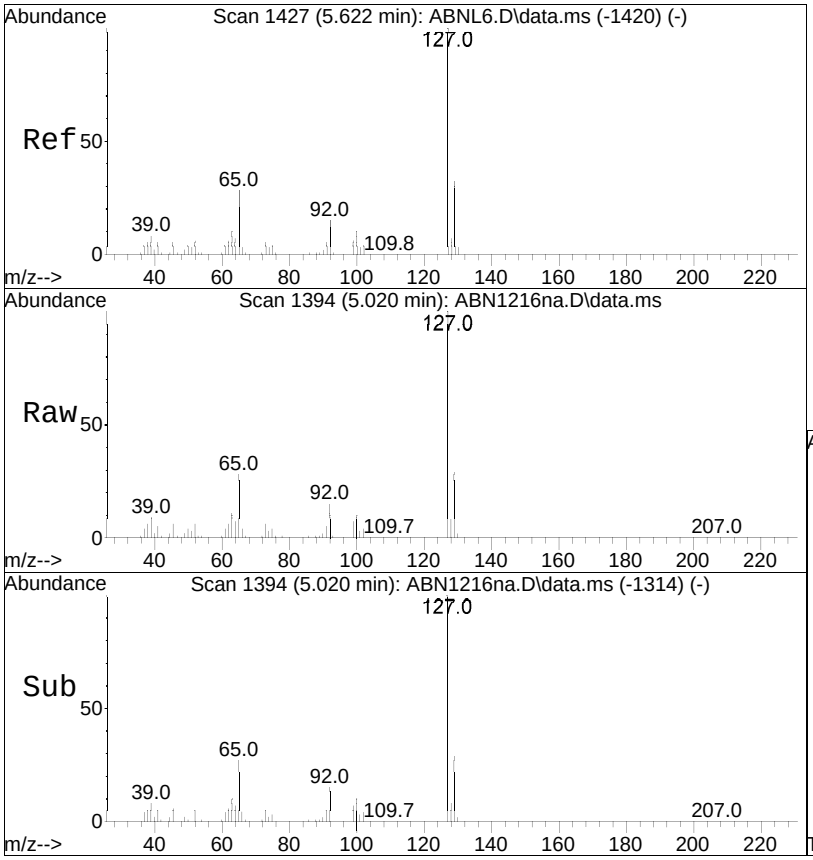


#39
Benzoic Acid
Concen: 4.53 ug/ml
RT: 4.790 min Scan# 1320
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:105 Resp: 25697

Ion	Ratio	Lower	Upper
105	100		
122	87.8	59.9	89.9
77	81.5	60.1	90.1

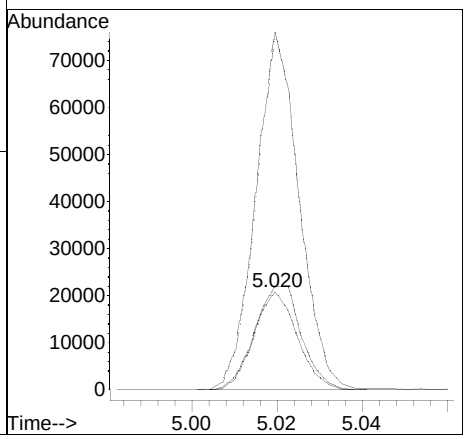


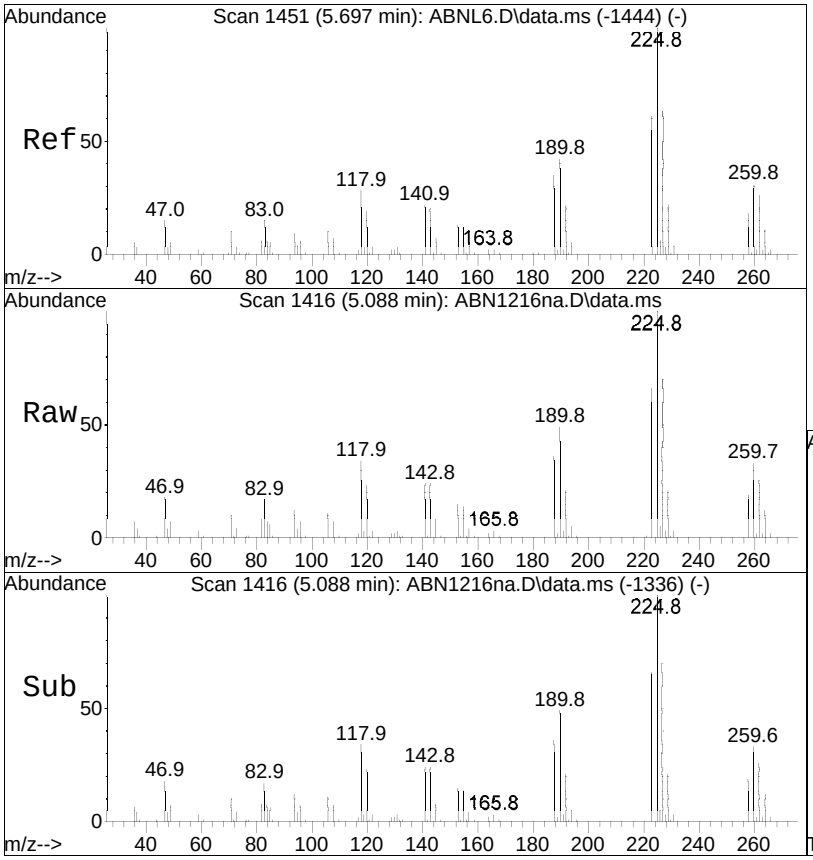


#40
4-Chloroaniline
Concen: 4.86 ug/ml
RT: 5.020 min Scan# 1394
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion: 65 Resp: 14650

Ion	Ratio	Lower	Upper
65	100		
127	366.3	237.6	356.4#
129	115.6	76.3	114.5#

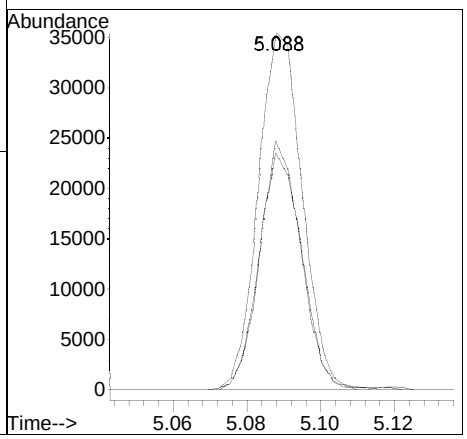


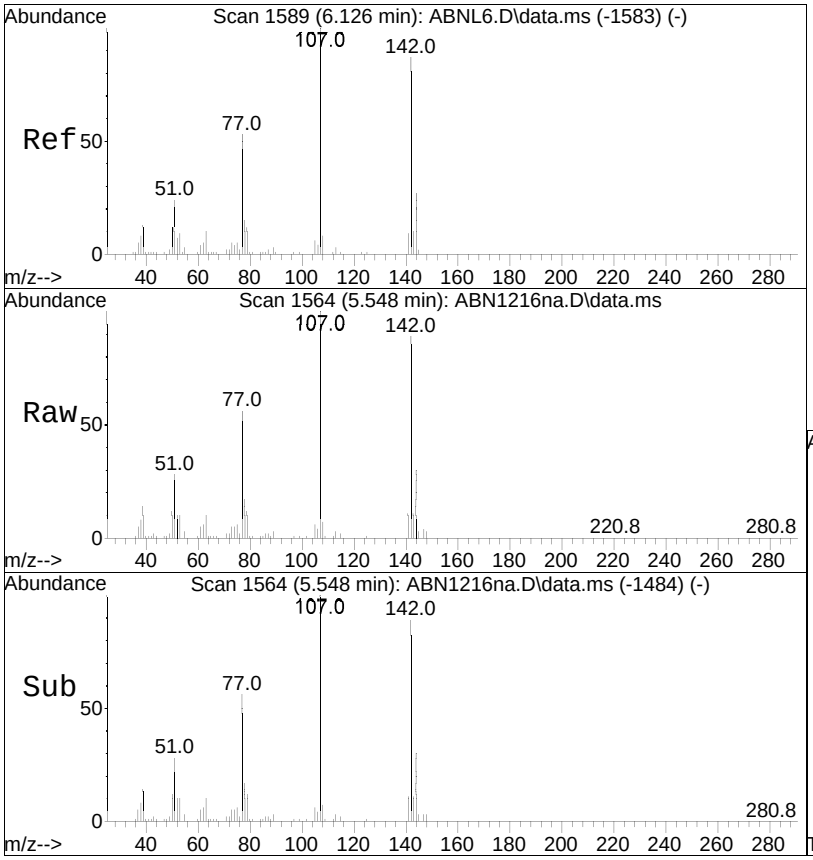


#41
Hexachlorobutadiene
Concen: 4.56 ug/ml
RT: 5.088 min Scan# 1416
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:225 Resp: 29370

Ion	Ratio	Lower	Upper
225	100		
223	64.4	50.3	75.5
227	65.5	52.2	78.2

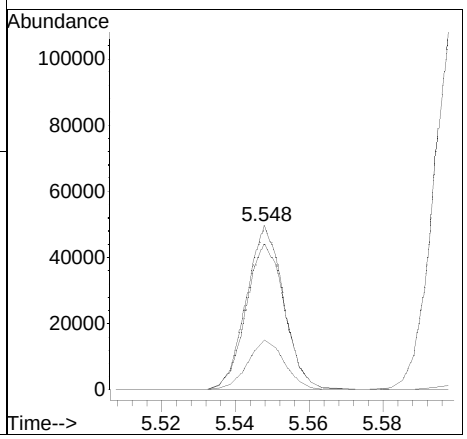


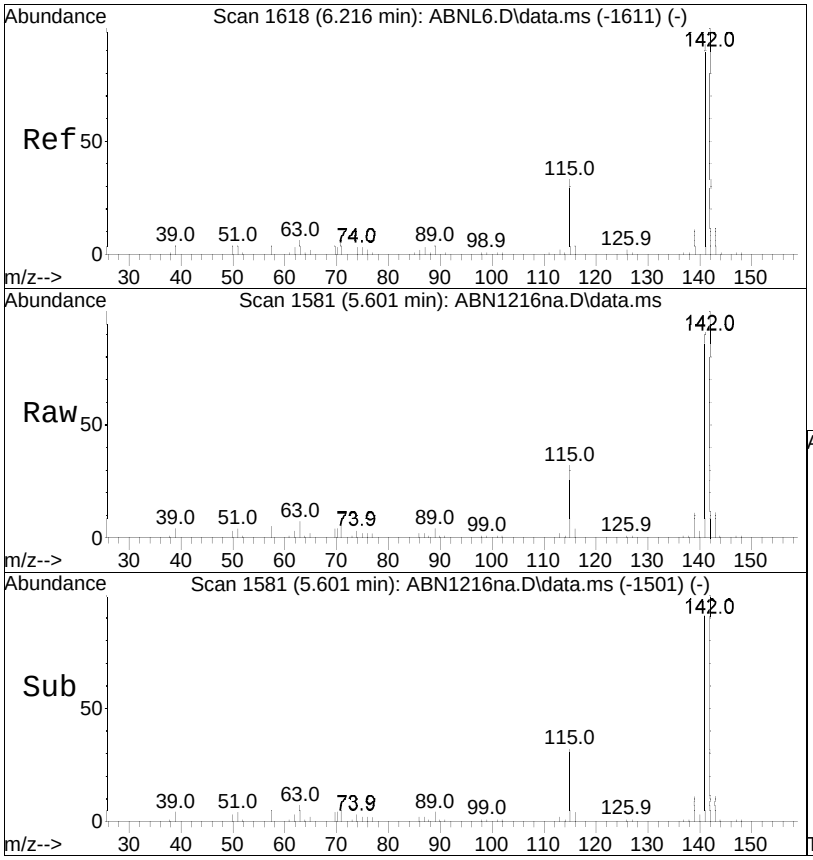


#42
p-Chloro-m-cresol
Concen: 4.81 ug/ml
RT: 5.548 min Scan# 1564
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:107 Resp: 34723

Ion	Ratio	Lower	Upper
107	100		
144	29.7	20.9	31.3
142	92.6	66.1	99.1

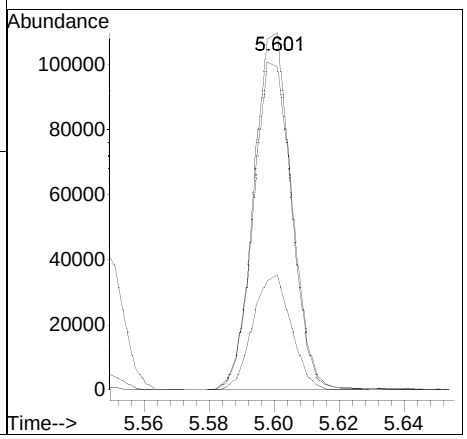


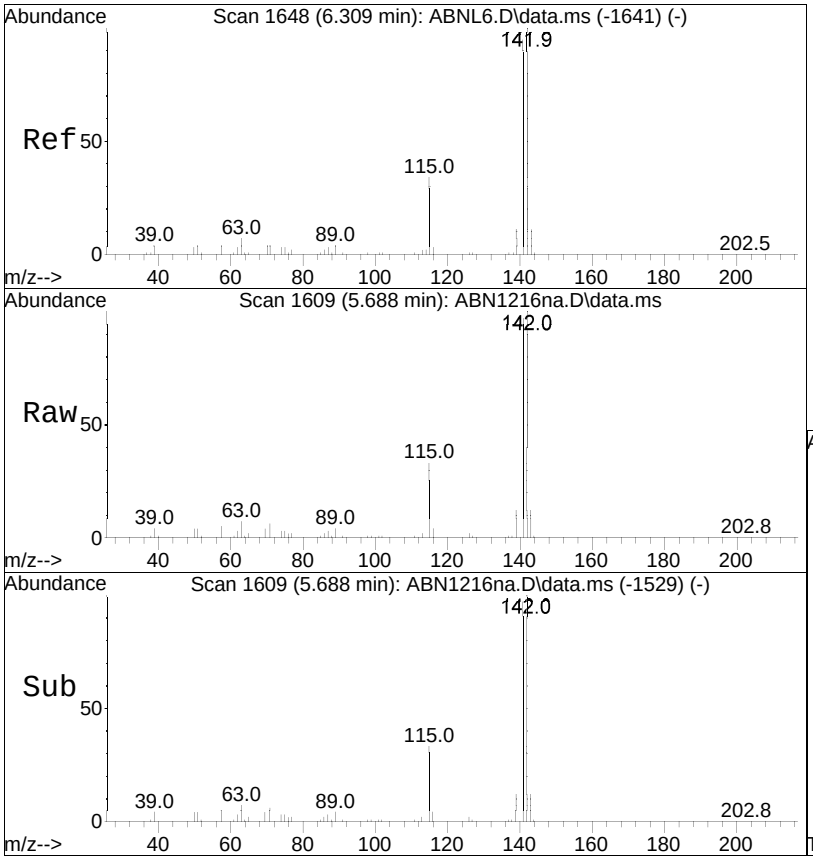


#43
2-Methylnaphthalene
Concen: 4.68 ug/ml
RT: 5.601 min Scan# 1581
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:142 Resp: 88726

Ion	Ratio	Lower	Upper
142	100		
141	93.1	69.6	104.4
115	32.6	26.6	40.0

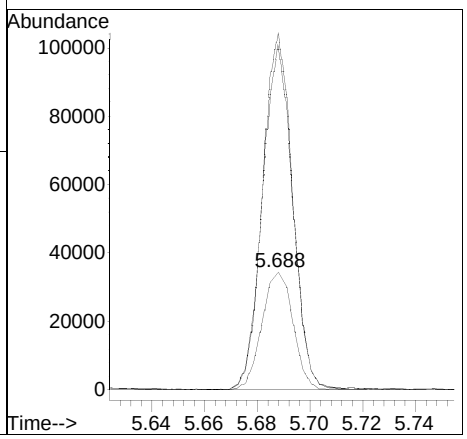


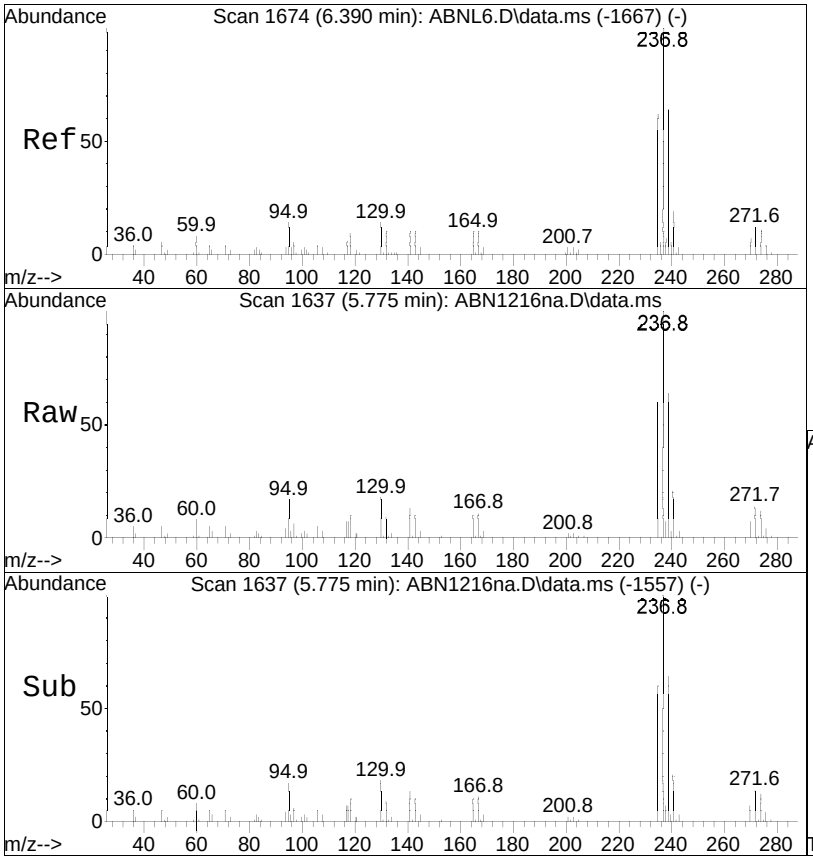


#44
1-Methylnaphthalene
Concen: 4.75 ug/ml
RT: 5.688 min Scan# 1609
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:115 Resp: 28617

Ion	Ratio	Lower	Upper
115	100		
141	277.9	207.8	311.6
142	287.6	226.8	340.2

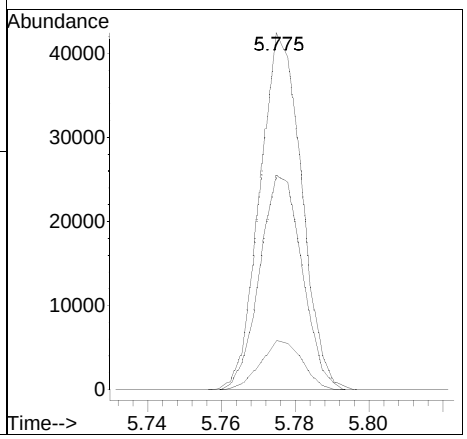


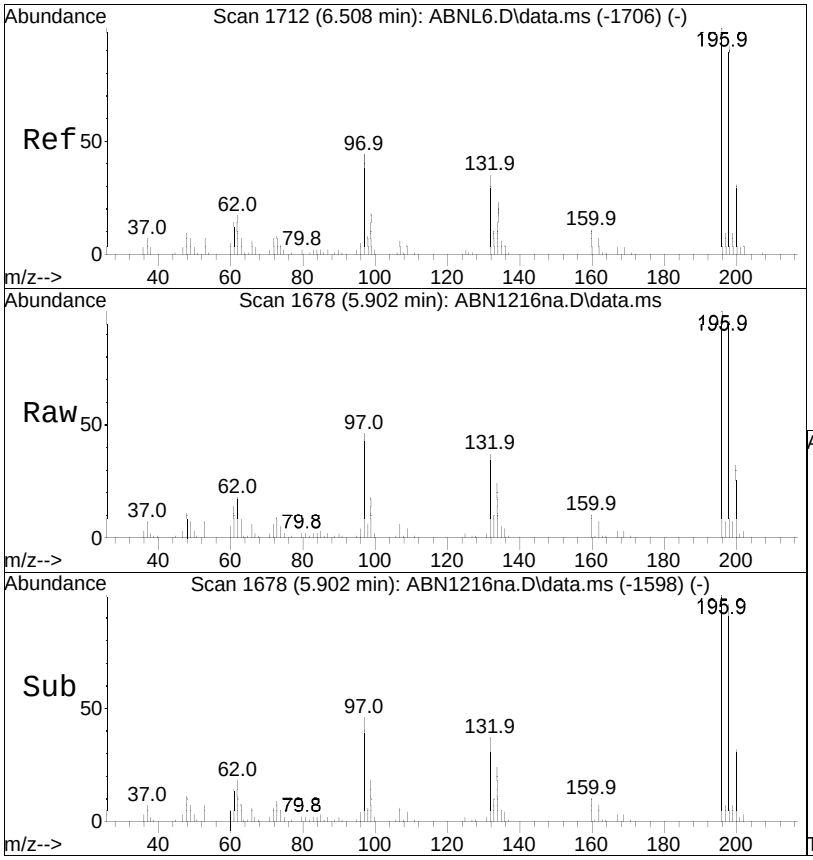


#45
Hexachlorocyclopentadiene
Concen: 4.90 ug/ml
RT: 5.775 min Scan# 1637
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:237 Resp: 33229

Ion	Ratio	Lower	Upper
237	100		
235	61.3	49.7	74.5
272	14.0	9.8	14.6

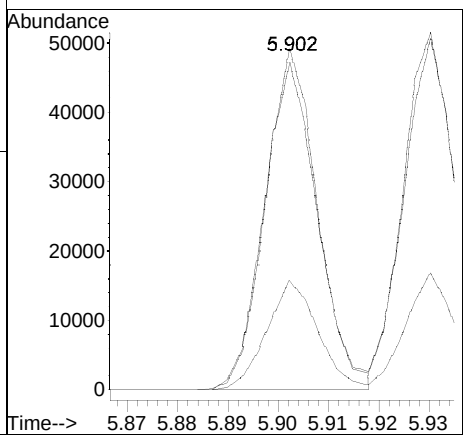


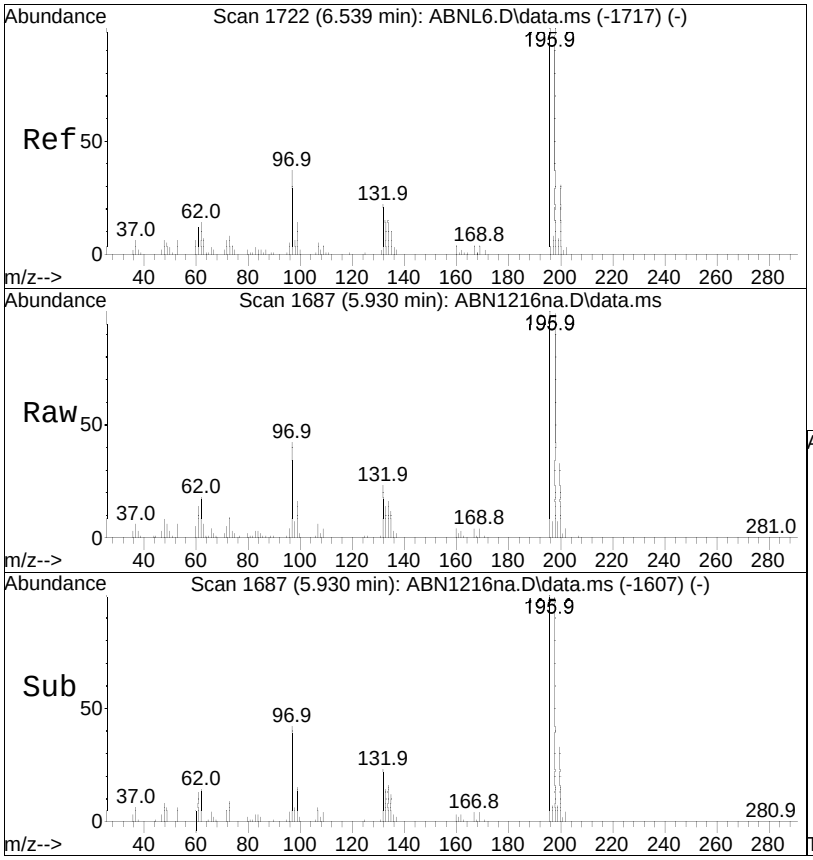


#46
2,4,6-Trichlorophenol
Concen: 4.99 ug/ml
RT: 5.902 min Scan# 1678
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:196 Resp: 35649

Ion	Ratio	Lower	Upper
196	100		
198	96.4	77.5	116.3
200	31.4	23.8	35.6

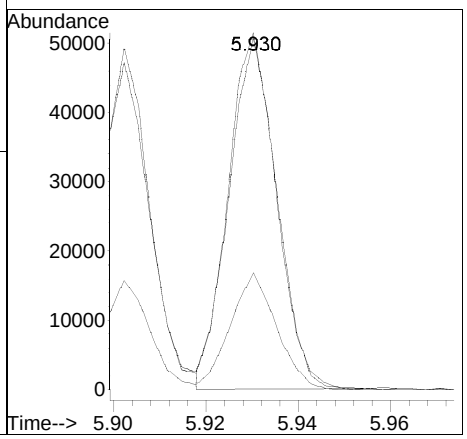


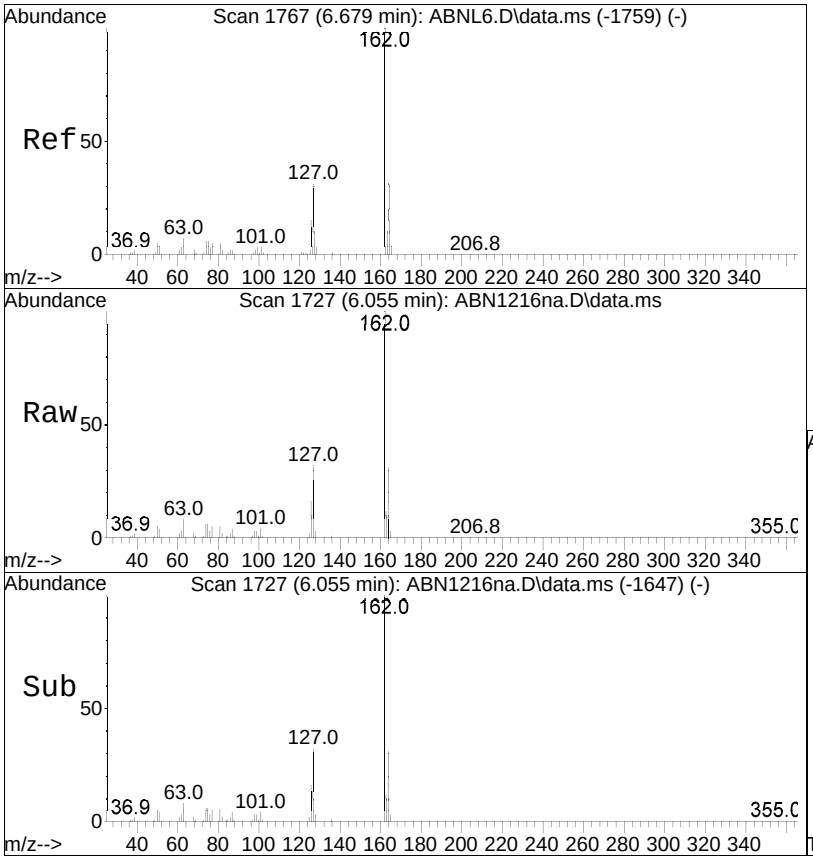


#47
2,4,5-Trichlorophenol
Concen: 4.67 ug/ml
RT: 5.930 min Scan# 1687
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:196 Resp: 37251

Ion	Ratio	Lower	Upper
196	100		
200	31.5	25.4	38.0
198	98.0	78.0	117.0

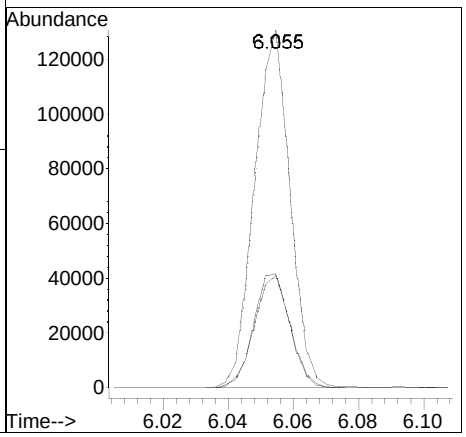


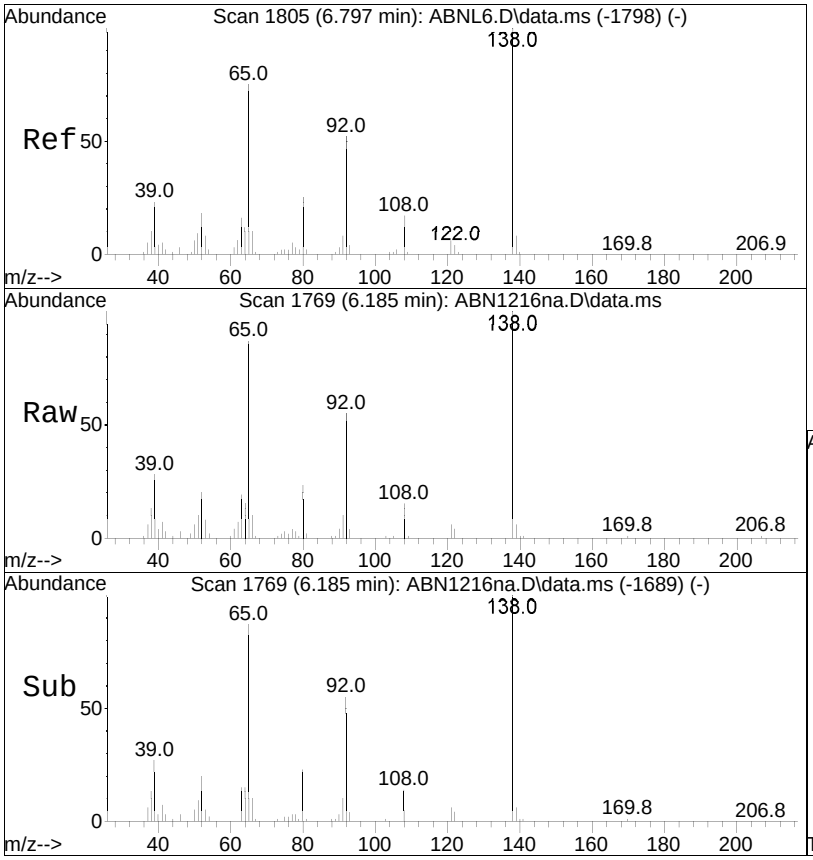


#49
2-Chloronaphthalene
Concen: 4.63 ug/ml
RT: 6.055 min Scan# 1727
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:162 Resp: 98354

Ion	Ratio	Lower	Upper
162	100		
127	32.6	32.2	48.4
164	31.8	25.7	38.5

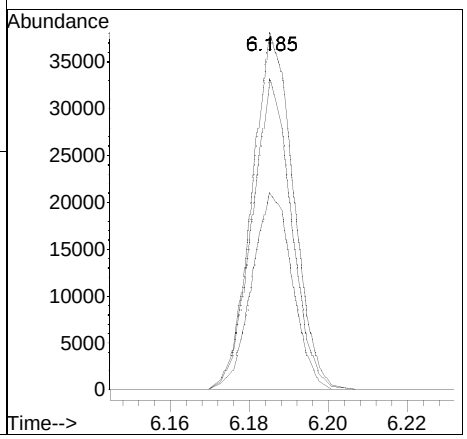


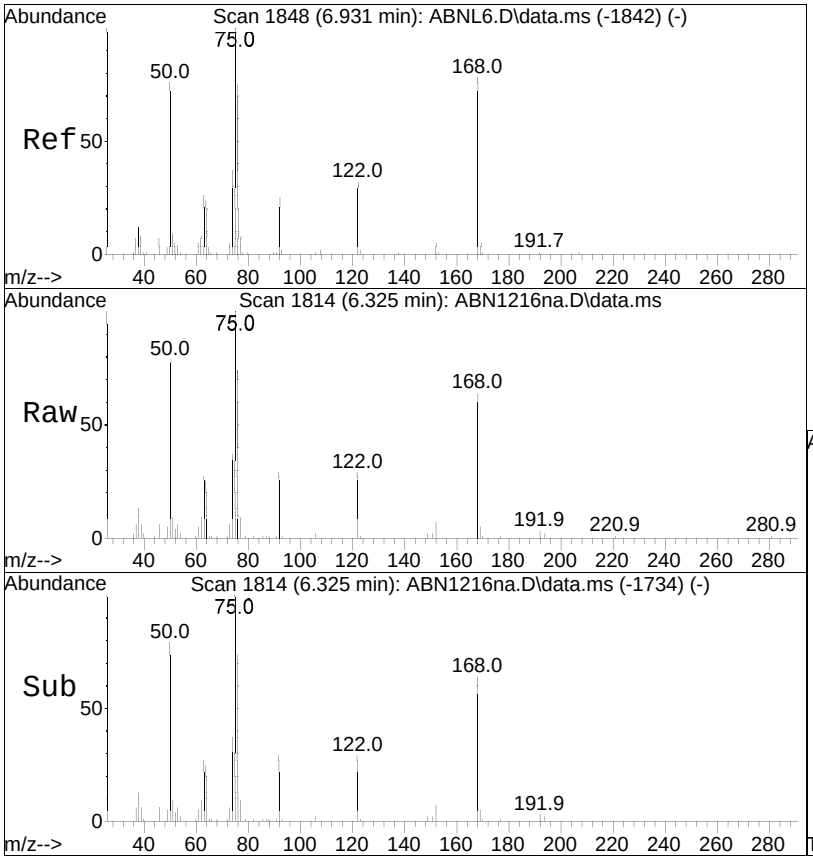


#50
2-Nitroaniline
Concen: 5.07 ug/ml
RT: 6.185 min Scan# 1769
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:138 Resp: 27557

Ion	Ratio	Lower	Upper
138	100		
92	54.0	53.5	80.3
65	82.8	86.3	129.5#

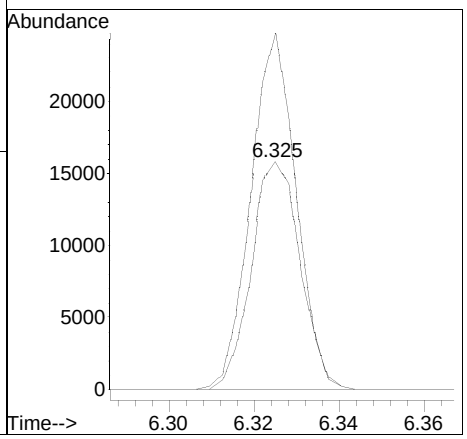


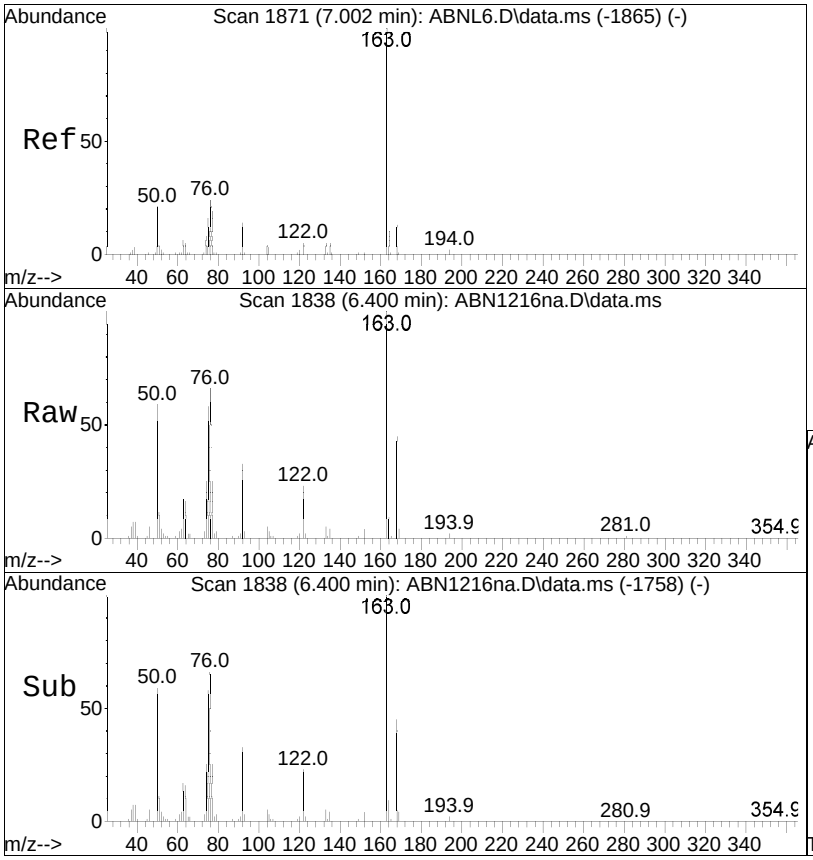


#51
1,4-Dinitrobenzene
Concen: 5.34 ug/ml
RT: 6.325 min Scan# 1814
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:168 Resp: 12608

Ion	Ratio	Lower	Upper
168	100		
75	144.6	121.8	182.8

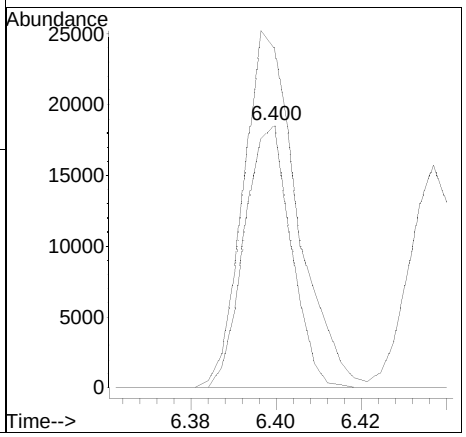


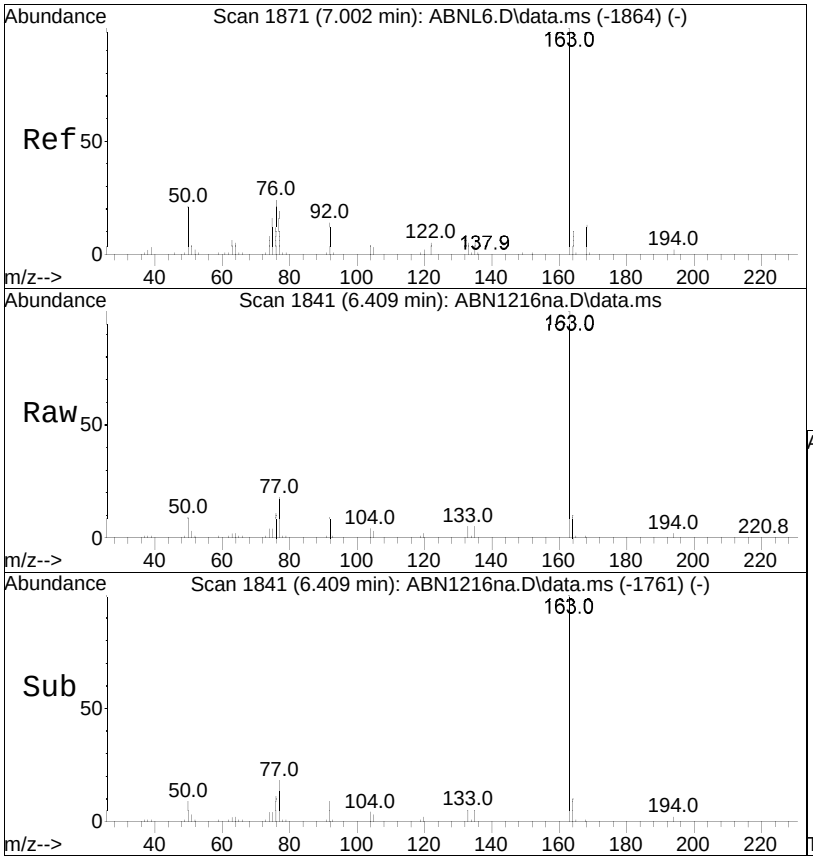


#52
1,3-Dinitrobenzene
Concen: 5.00 ug/ml
RT: 6.400 min Scan# 1838
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:168 Resp: 14149

Ion	Ratio	Lower	Upper
168	100		
75	157.6	22.7	34.1#

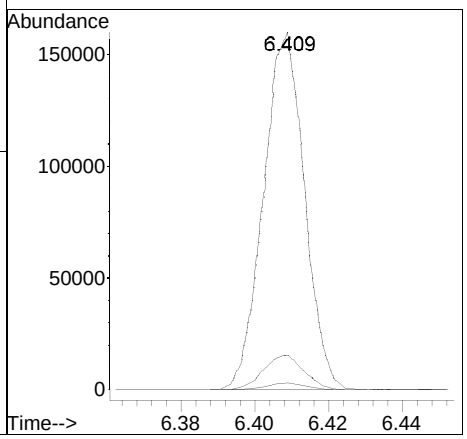


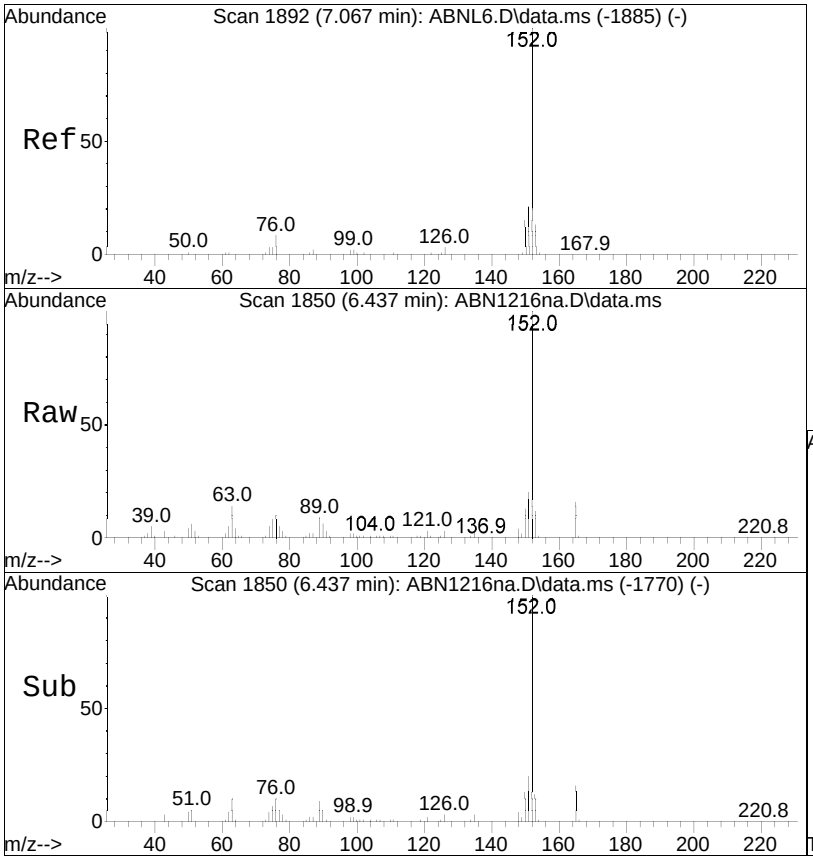


#53
Dimethyl phthalate
Concen: 4.95 ug/ml
RT: 6.409 min Scan# 1841
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:163 Resp: 122277

Ion	Ratio	Lower	Upper
163	100		
194	1.9	3.5	5.3#
164	9.7	7.9	11.9

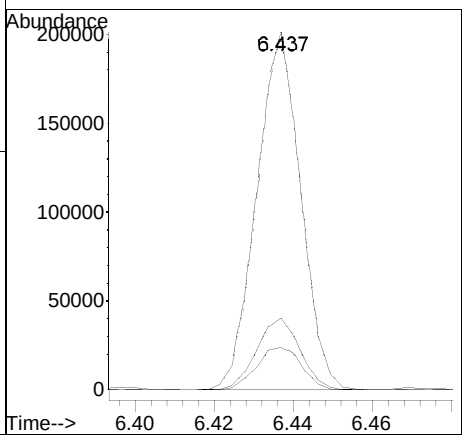


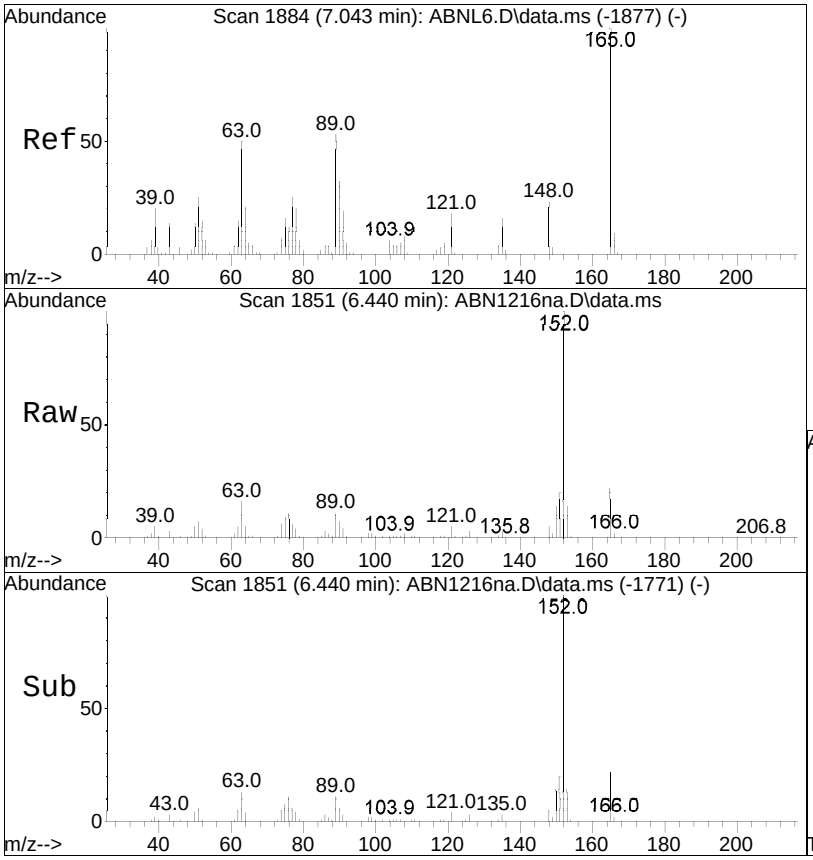


#54
Acenaphthylene
Concen: 4.94 ug/ml
RT: 6.437 min Scan# 1850
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:152 Resp: 153932

Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.8	23.6
153	12.5	10.5	15.7

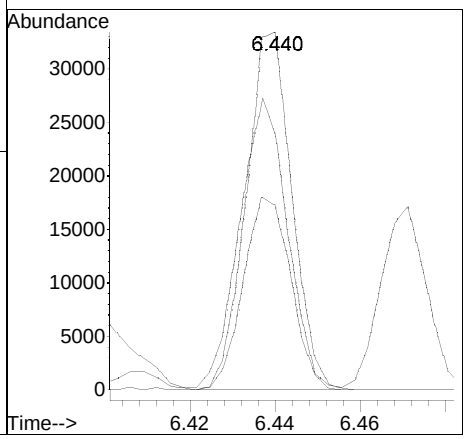


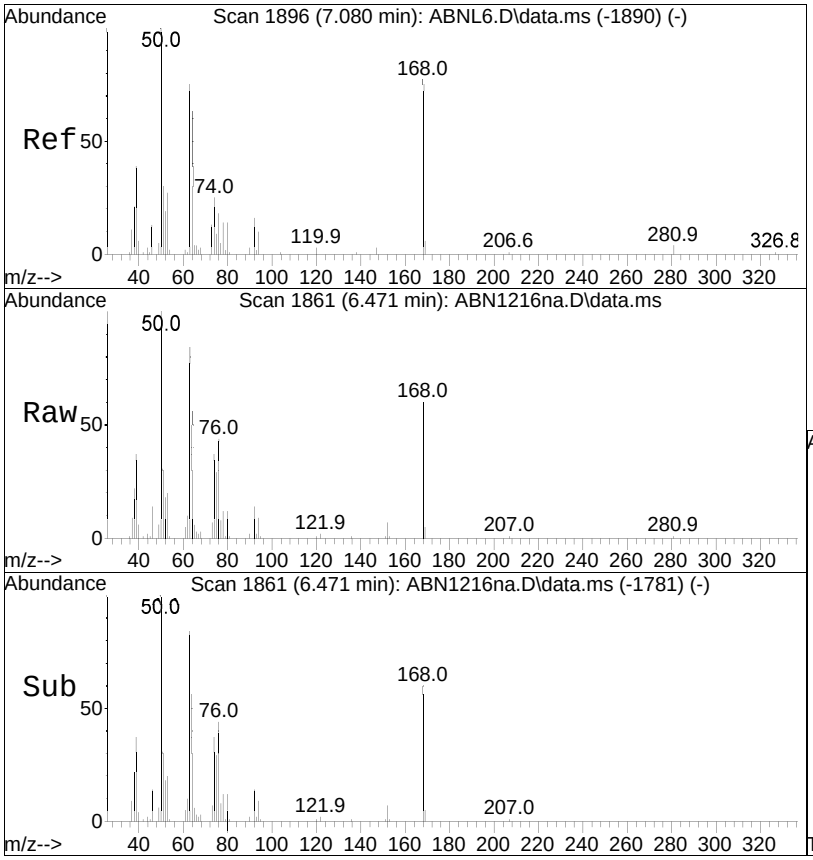


#55
2,6-Dinitrotoluene
Concen: 5.41 ug/ml
RT: 6.440 min Scan# 1851
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:165 Resp: 24915

Ion	Ratio	Lower	Upper
165	100		
89	56.0	54.2	81.2
63	85.9	64.2	96.2

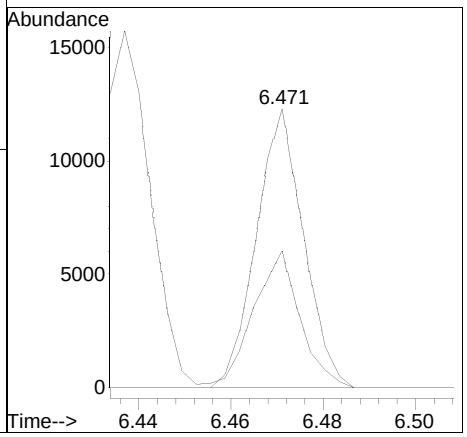


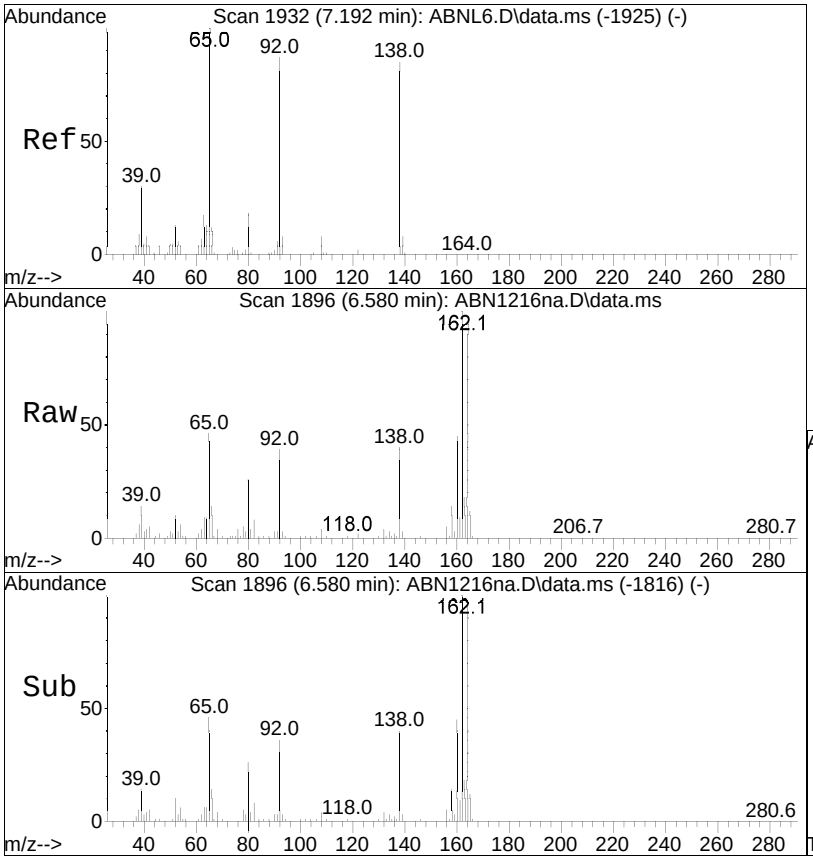


#56
1,2-Dinitrobenzene
Concen: 5.30 ug/ml
RT: 6.471 min Scan# 1861
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:168 Resp: 8746

Ion	Ratio	Lower	Upper
168	100		
75	48.4	30.9	46.3#

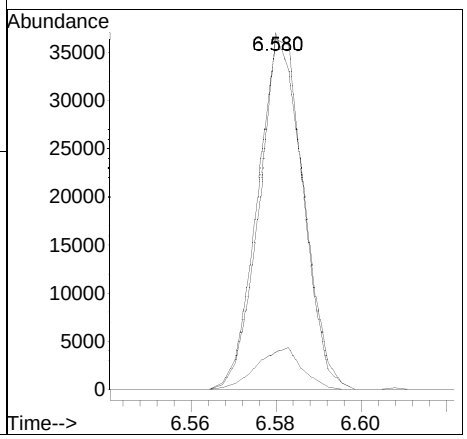


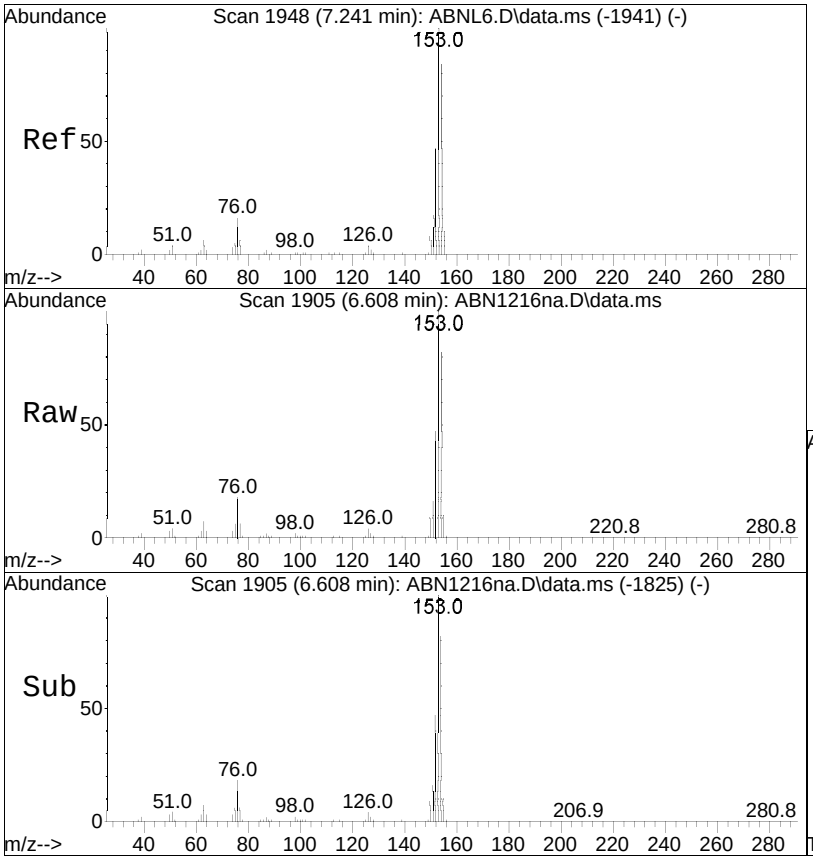


#66
3-Nitroaniline
Concen: 5.00 ug/ml
RT: 6.580 min Scan# 1896
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:138 Resp: 26289

Ion	Ratio	Lower	Upper
138	100		
92	103.4	93.4	140.2
108	12.1	9.5	14.3

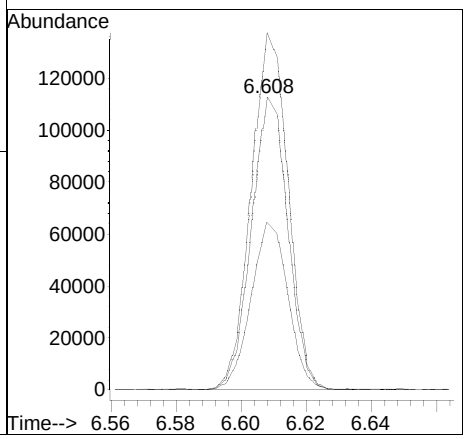


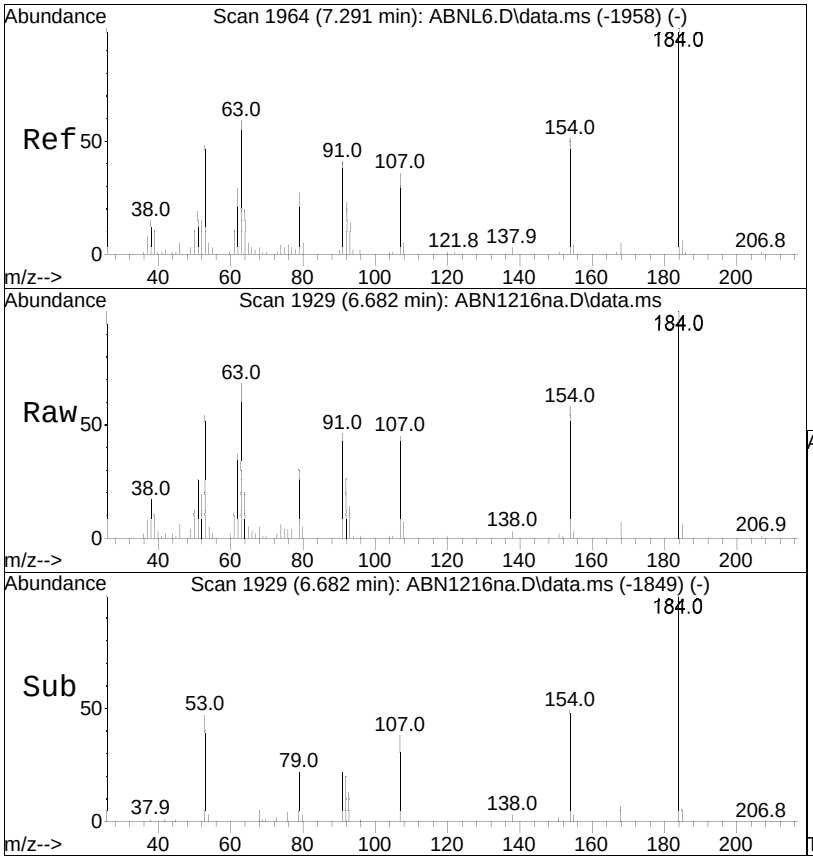


#67
Acenaphthene
Concen: 4.43 ug/ml
RT: 6.608 min Scan# 1905
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:154 Resp: 87658

Ion	Ratio	Lower	Upper
154	100		
153	123.7	85.3	127.9
152	58.4	41.4	62.0

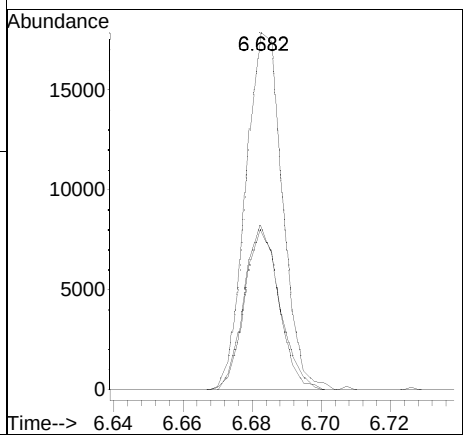


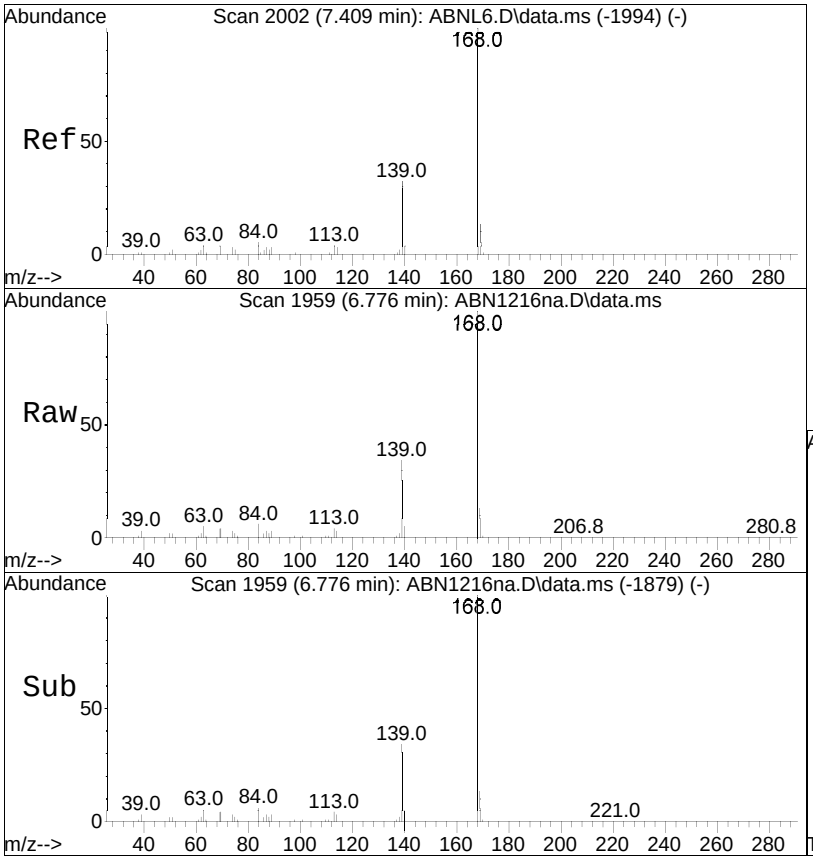


#68
2,4-Dinitrophenol
Concen: 4.11 ug/ml
RT: 6.682 min Scan# 1929
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:184 Resp: 13157

Ion	Ratio	Lower	Upper
184	100		
107	42.3	37.7	56.5
91	44.6	46.3	69.5#

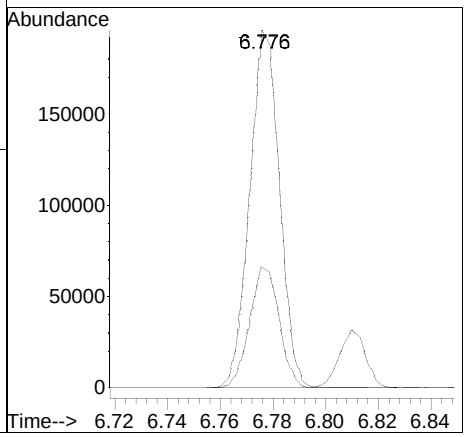


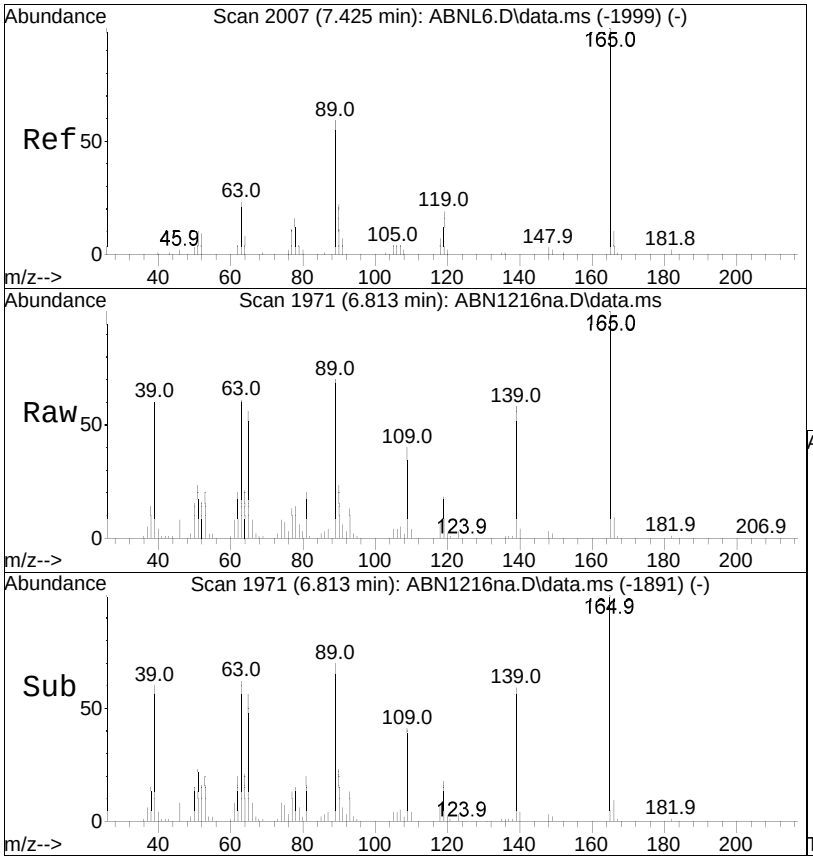


#69
Dibenzofuran
Concen: 4.46 ug/ml
RT: 6.776 min Scan# 1959
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:168 Resp: 152258

Ion	Ratio	Lower	Upper
168	100		
139	33.7	31.4	47.2

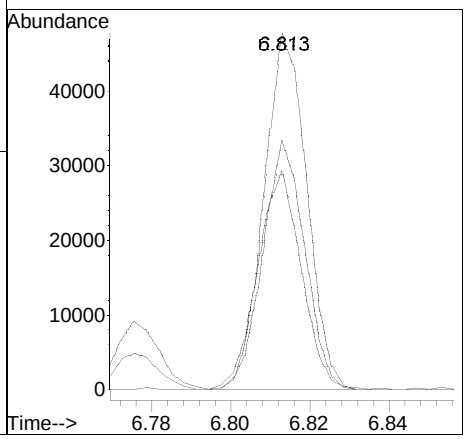


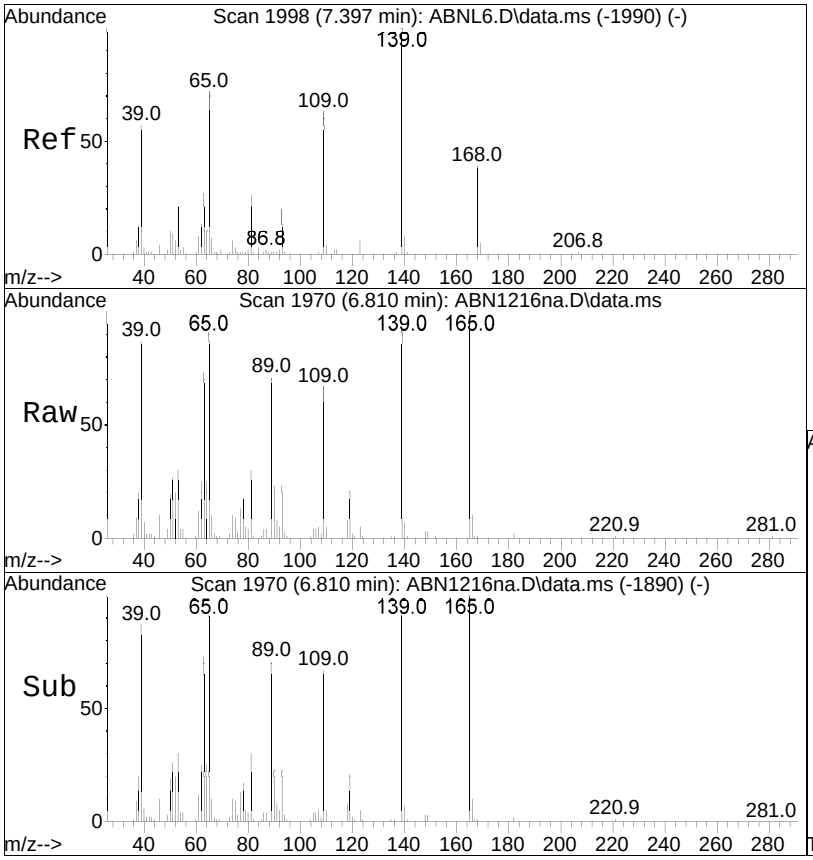


#70
2,4-Dinitrotoluene
Concen: 5.43 ug/ml
RT: 6.813 min Scan# 1971
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:165 Resp: 35792

Ion	Ratio	Lower	Upper
165	100		
89	68.6	72.0	108.0#
63	62.8	52.7	79.1

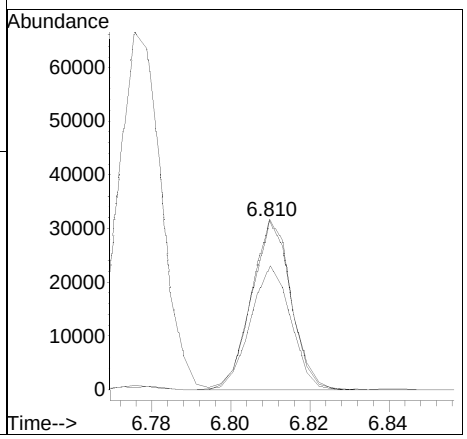


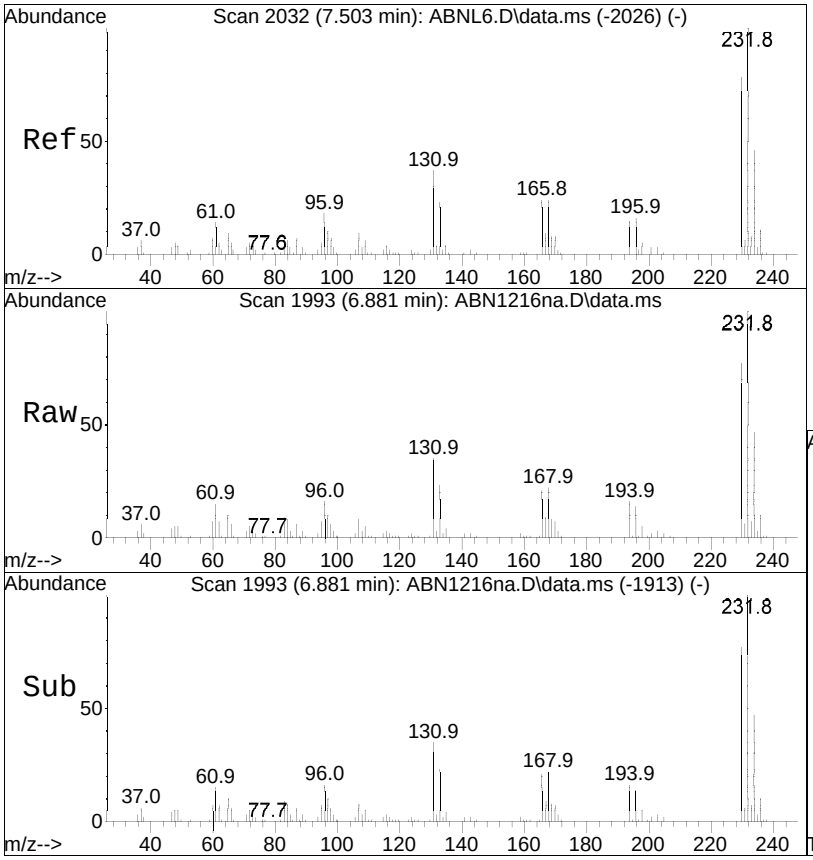


#71
4-Nitrophenol
Concen: 5.58 ug/ml
RT: 6.810 min Scan# 1970
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion: 65 Resp: 21866

Ion	Ratio	Lower	Upper
65	100		
109	75.2	47.4	71.2#
139	101.2	76.6	115.0

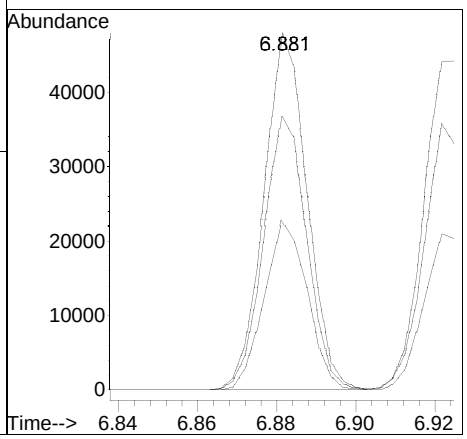


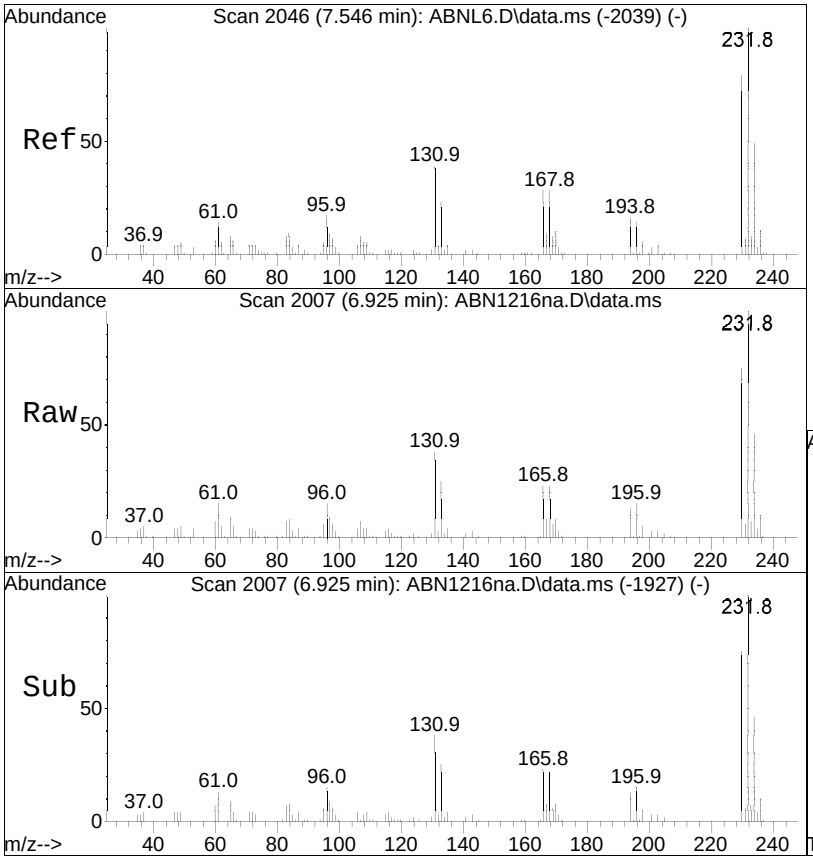


#72
2,3,5,6-Tetrachlorophenol
Concen: 4.89 ug/ml
RT: 6.881 min Scan# 1993
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:232 Resp: 36345

Ion	Ratio	Lower	Upper
232	100		
230	77.1	64.2	96.4
234	47.3	38.1	57.1

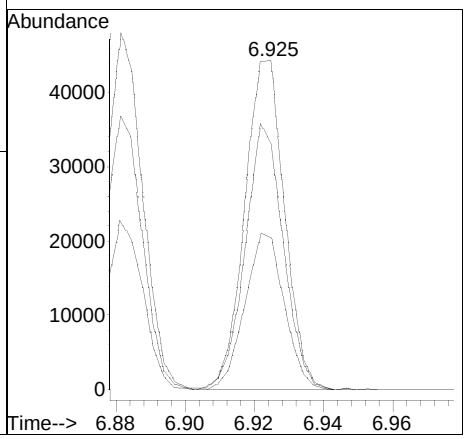


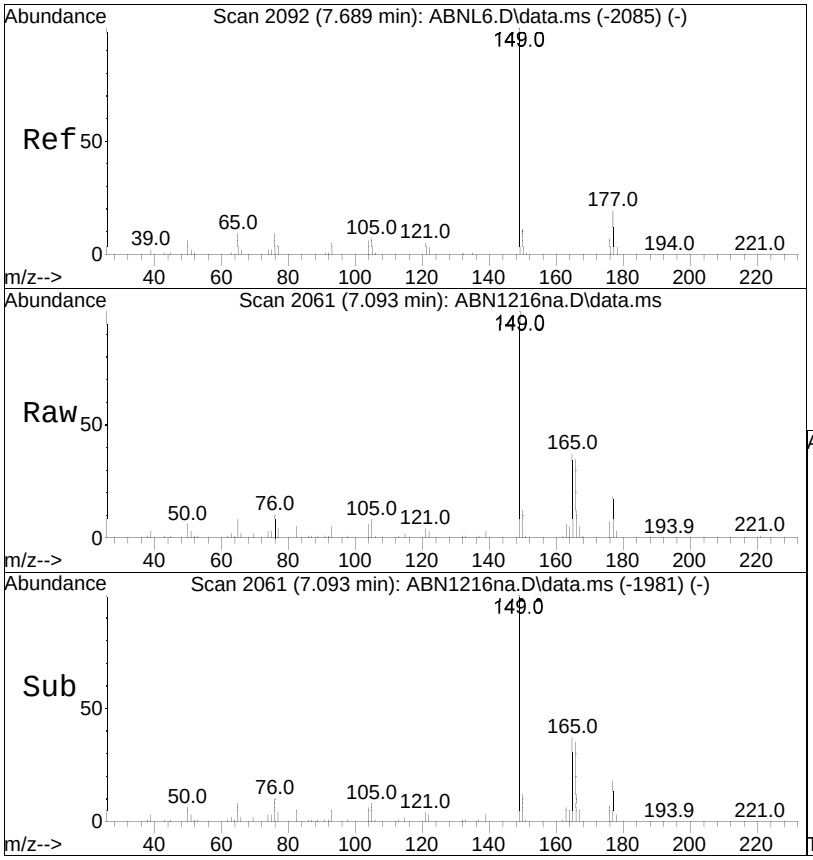


#73
2,3,4,6-Tetrachlorophenol
Concen: 4.89 ug/ml
RT: 6.925 min Scan# 2007
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:232 Resp: 35572

Ion	Ratio	Lower	Upper
232	100		
230	77.5	61.8	92.8
234	46.9	36.2	54.2

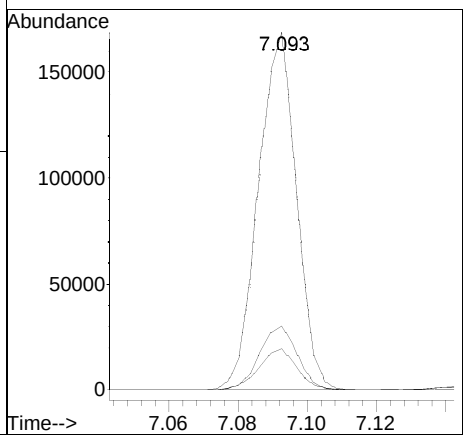


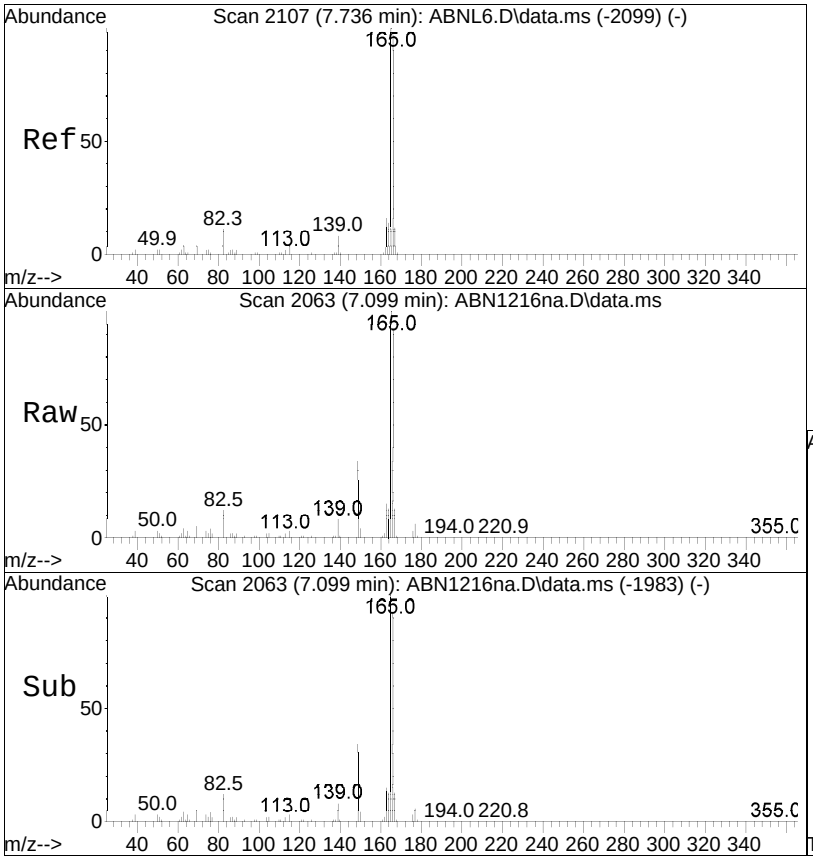


#74
Diethyl phthalate
Concen: 4.77 ug/ml
RT: 7.093 min Scan# 2061
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:149 Resp: 127919

Ion	Ratio	Lower	Upper
149	100		
177	17.8	16.1	24.1
150	11.7	9.4	14.2

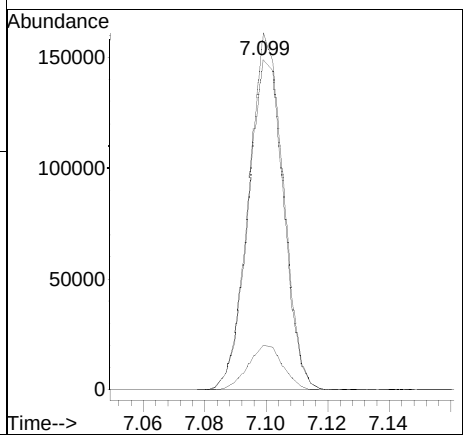


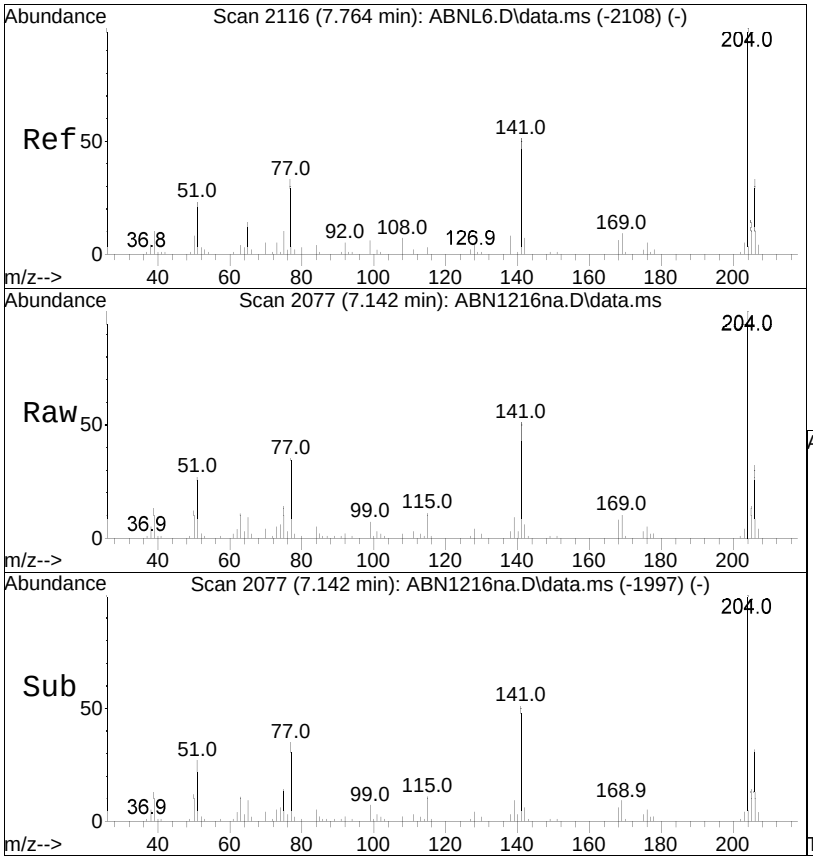


#75
Fluorene
Concen: 4.56 ug/ml
RT: 7.099 min Scan# 2063
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:166 Resp: 119135

Ion	Ratio	Lower	Upper
166	100		
165	106.2	76.2	114.2
167	13.5	10.6	15.8

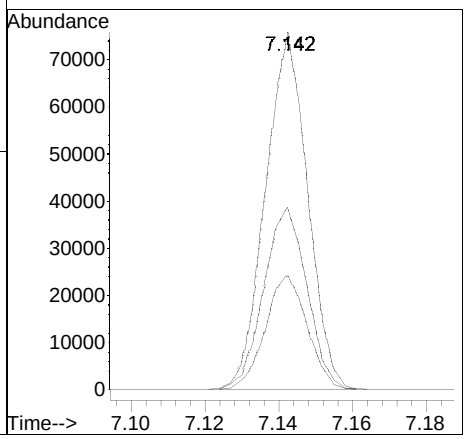


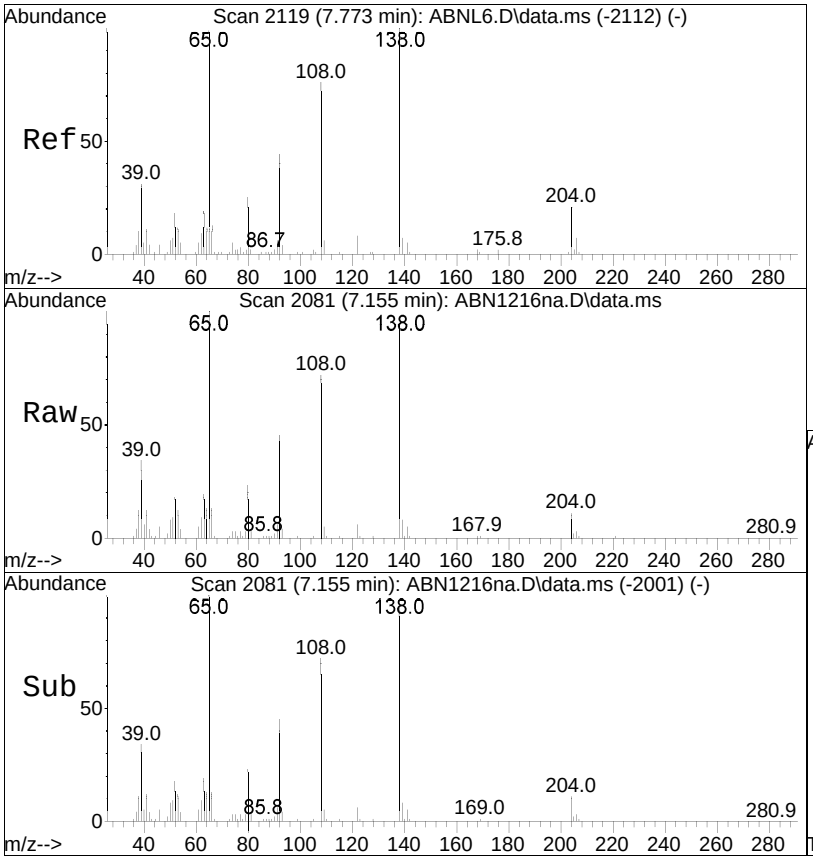


#76
4-Chlorophenyl phenyl ether
Concen: 4.42 ug/ml
RT: 7.142 min Scan# 2077
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:204 Resp: 59543

Ion	Ratio	Lower	Upper
204	100		
206	32.0	25.8	38.6
141	52.4	53.6	80.4#

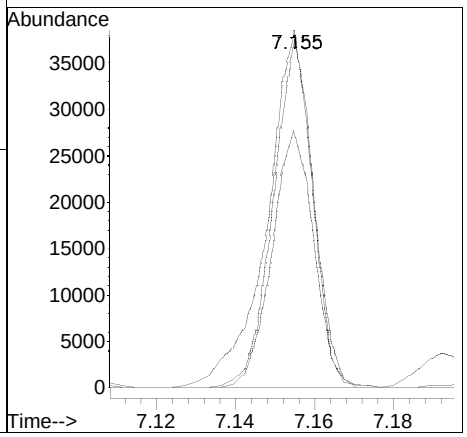


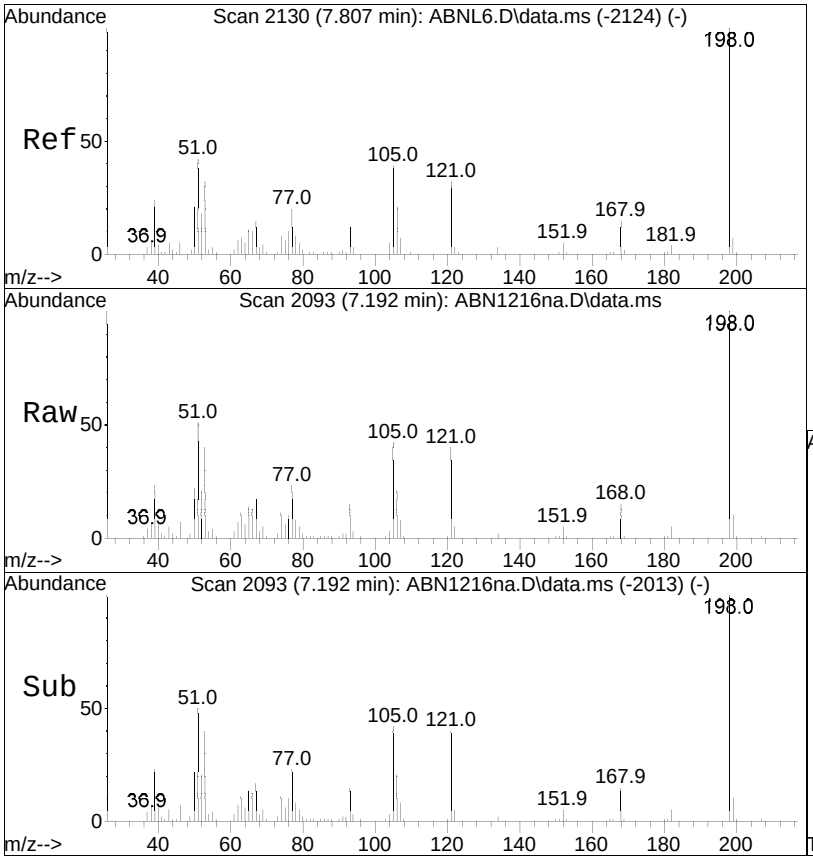


#77
4-Nitroaniline
Concen: 5.24 ug/ml
RT: 7.155 min Scan# 2081
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:138 Resp: 26615

Ion	Ratio	Lower	Upper
138	100		
108	76.0	52.1	78.1
65	114.4	115.0	172.6#

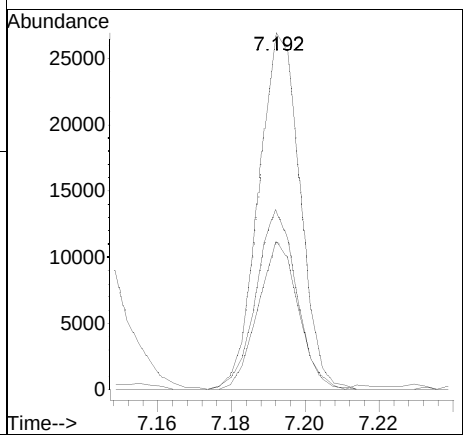


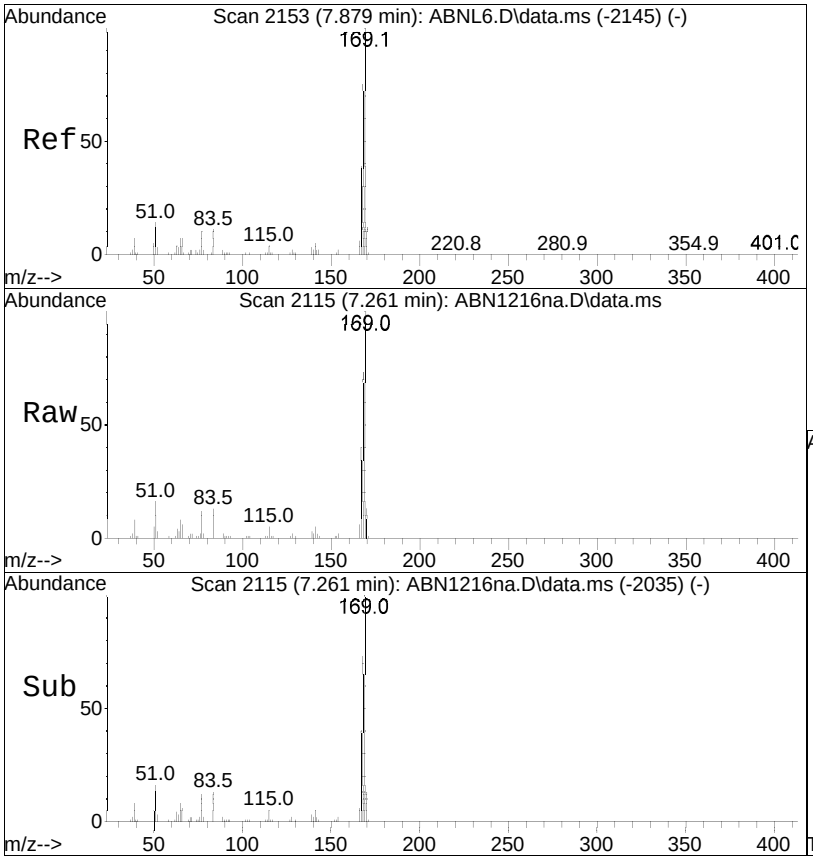


#78
4,6-Dinitro-o-cresol
Concen: 5.26 ug/ml
RT: 7.192 min Scan# 2093
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:198 Resp: 20940

Ion	Ratio	Lower	Upper
198	100		
51	49.4	76.0	114.0#
105	40.6	45.6	68.4#

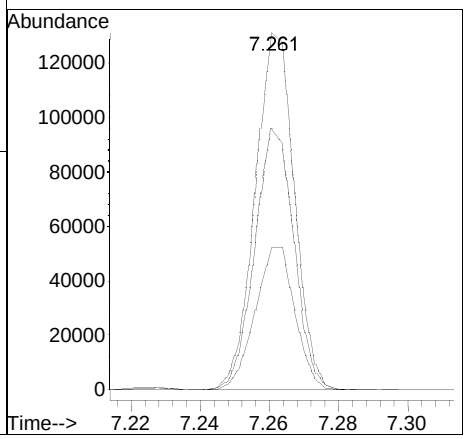


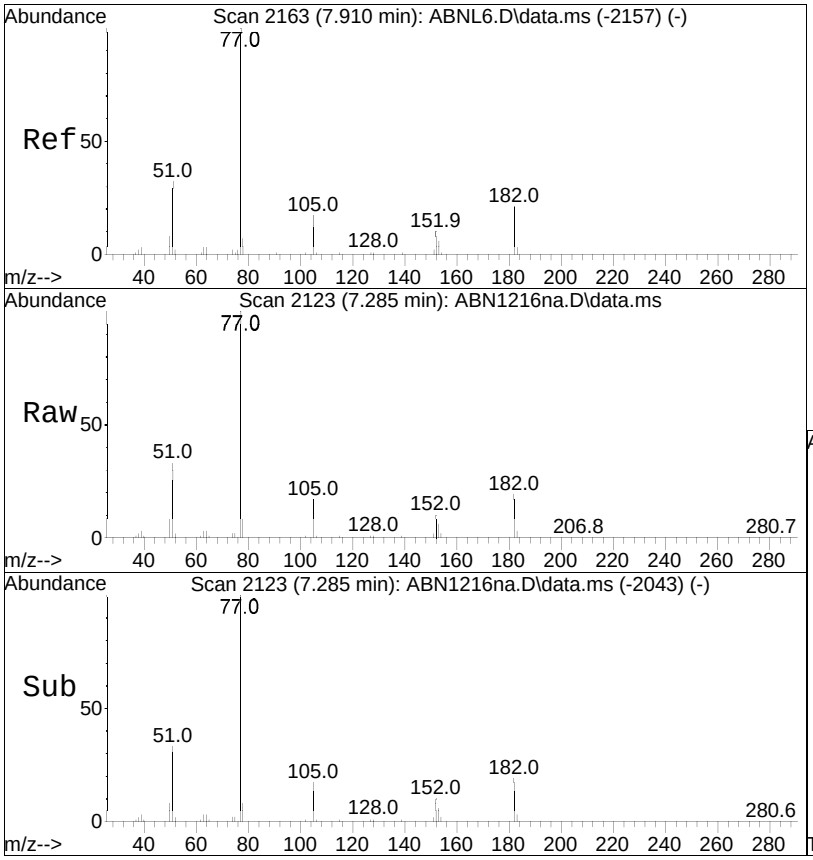


#79
NDPA/DPA
Concen: 4.53 ug/ml
RT: 7.261 min Scan# 2115
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:169 Resp: 103096

Ion	Ratio	Lower	Upper
169	100		
168	73.2	54.0	81.0
167	40.6	28.6	42.8

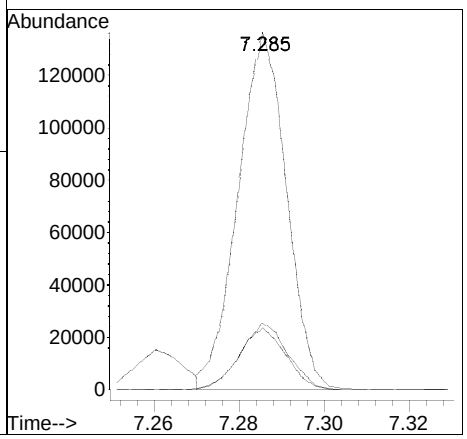


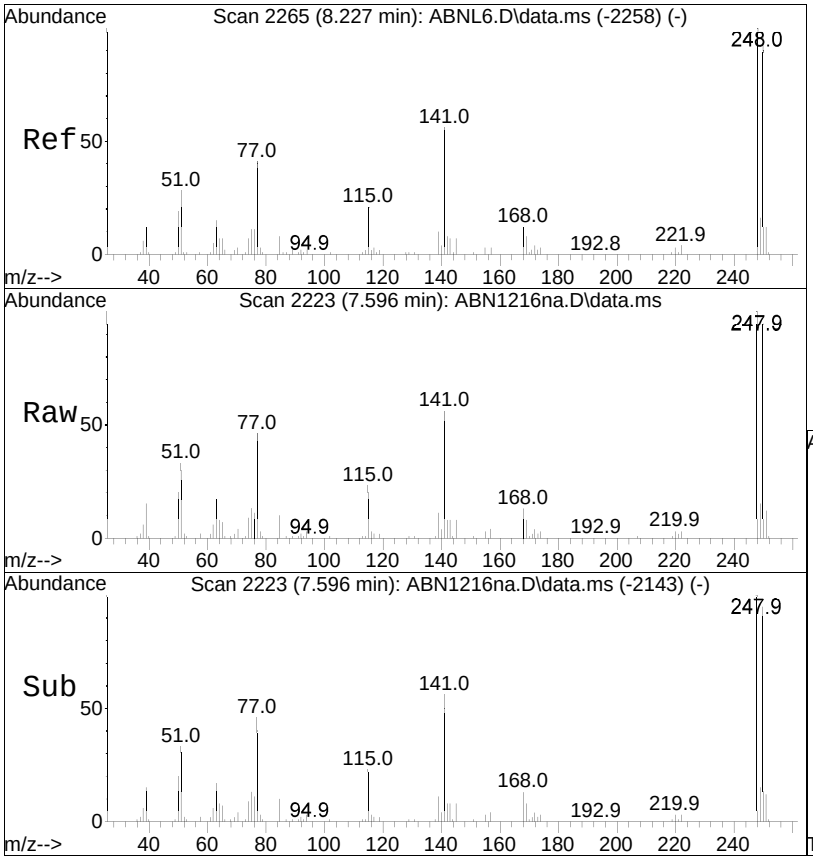


#80
Azobenzene
Concen: 4.90 ug/ml
RT: 7.285 min Scan# 2123
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion: 77 Resp: 106686

Ion	Ratio	Lower	Upper
77	100		
182	18.5	17.4	26.2
105	17.4	15.4	23.2

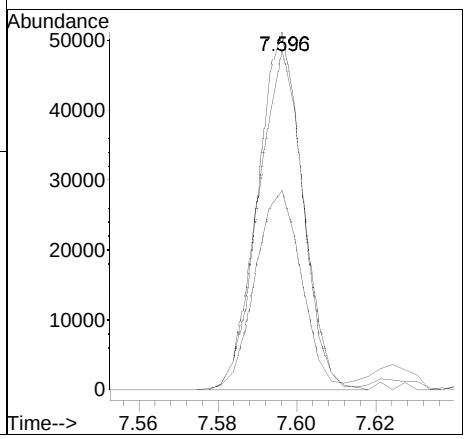


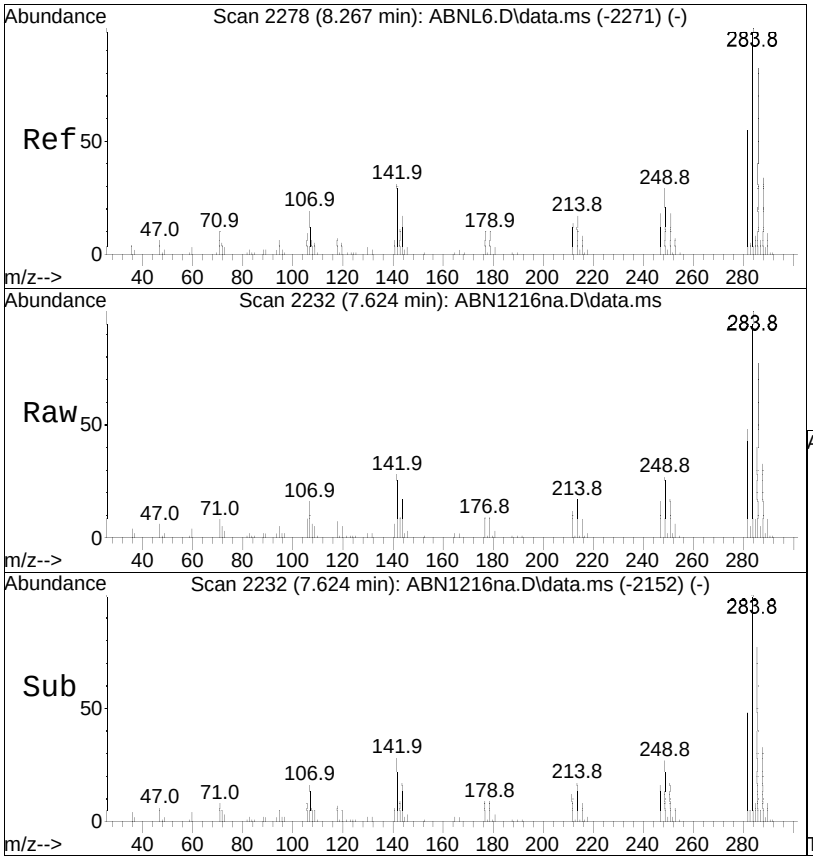


#82
4-Bromophenyl phenyl ether
Concen: 4.50 ug/ml
RT: 7.596 min Scan# 2223
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:248 Resp: 39929

Ion	Ratio	Lower	Upper
248	100		
141	58.2	76.6	114.8#
250	95.8	77.3	115.9

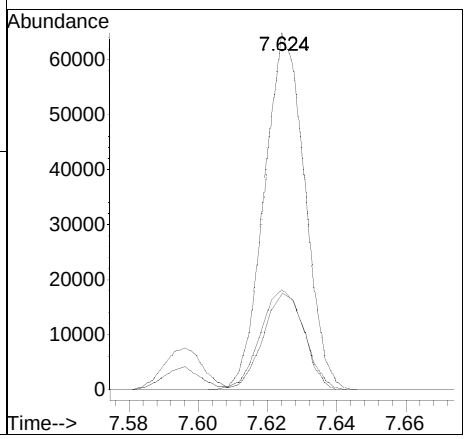


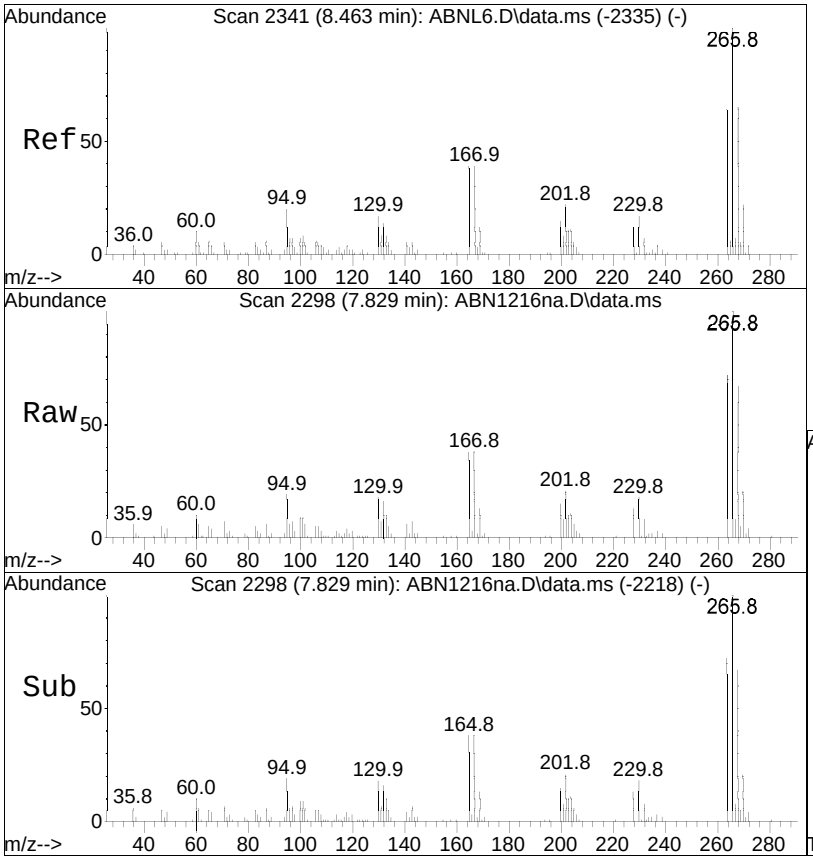


#83
Hexachlorobenzene
Concen: 4.71 ug/ml
RT: 7.624 min Scan# 2232
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:284 Resp: 52603

Ion	Ratio	Lower	Upper
284	100		
142	29.6	41.9	62.9#
249	28.1	24.1	36.1

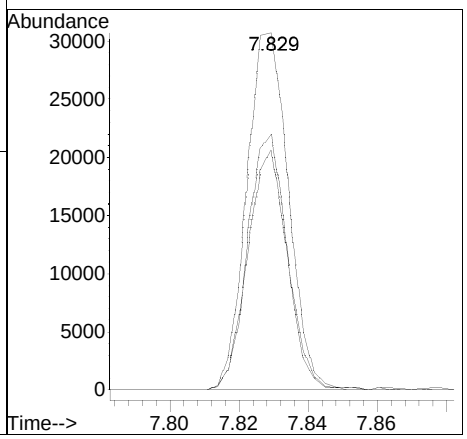


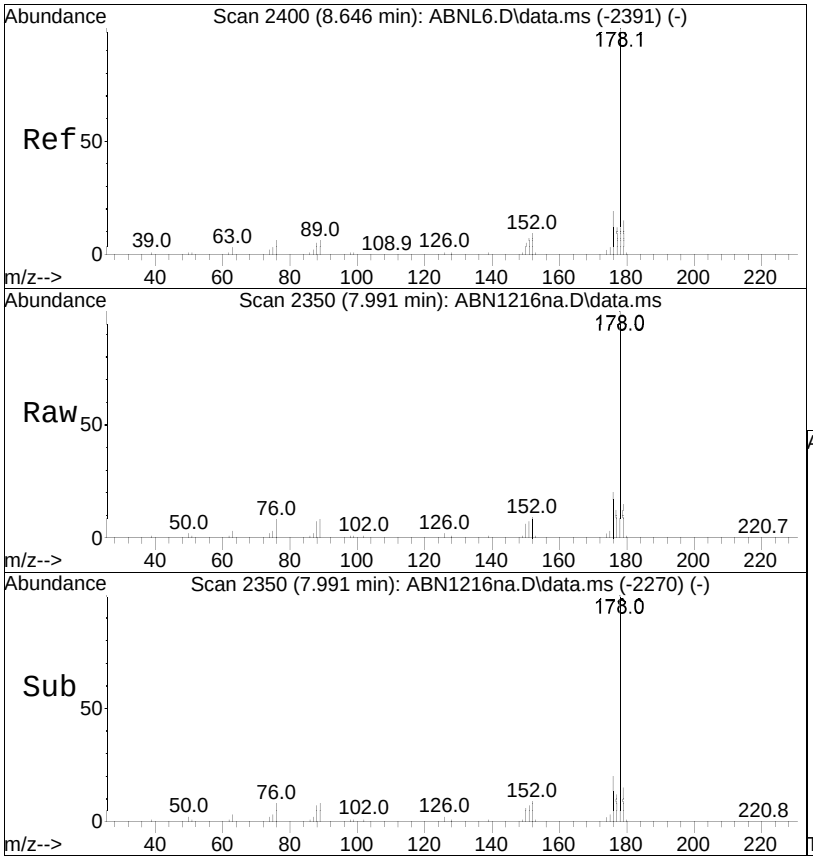


#84
Pentachlorophenol
Concen: 4.27 ug/ml
RT: 7.829 min Scan# 2298
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:266 Resp: 25835

Ion	Ratio	Lower	Upper
266	100		
264	67.4	49.7	74.5
268	64.5	50.5	75.7

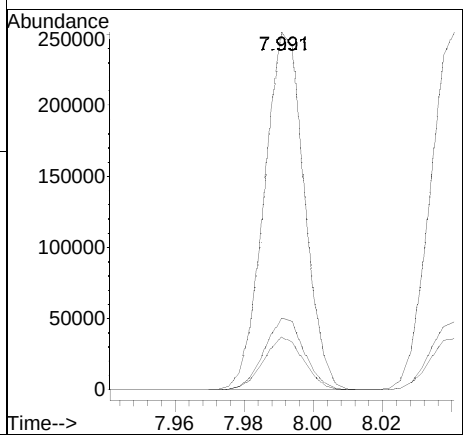


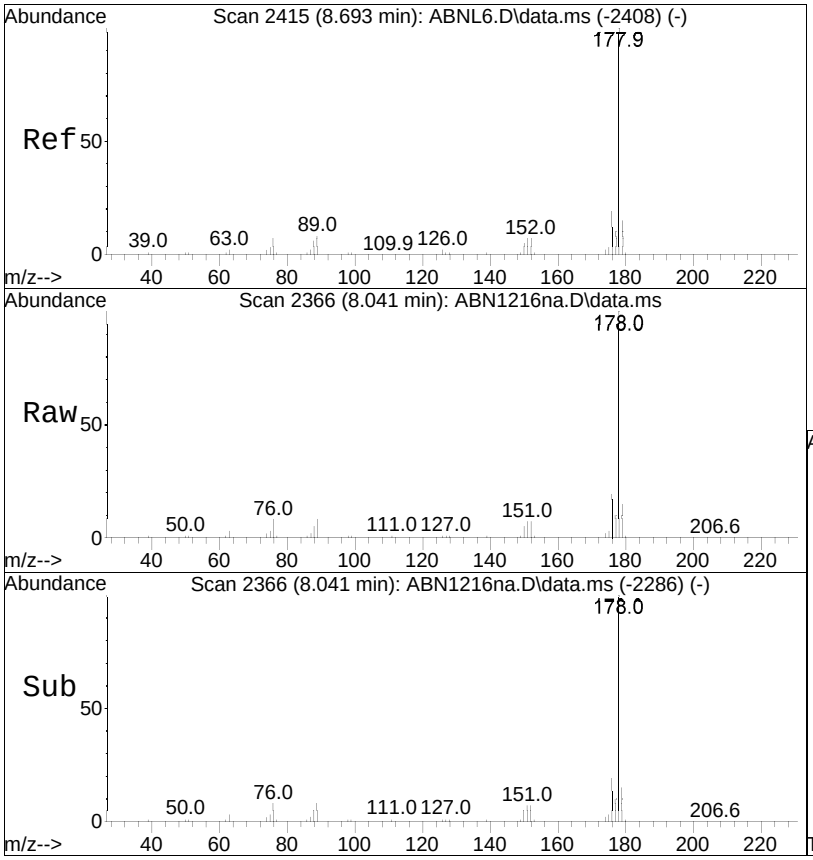


#91
Phenanthrene
Concen: 4.55 ug/ml
RT: 7.991 min Scan# 2350
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:178 Resp: 202722

Ion	Ratio	Lower	Upper
178	100		
179	14.7	12.2	18.2
176	19.8	15.4	23.2

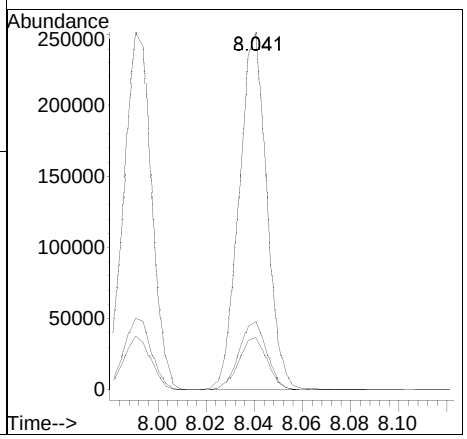


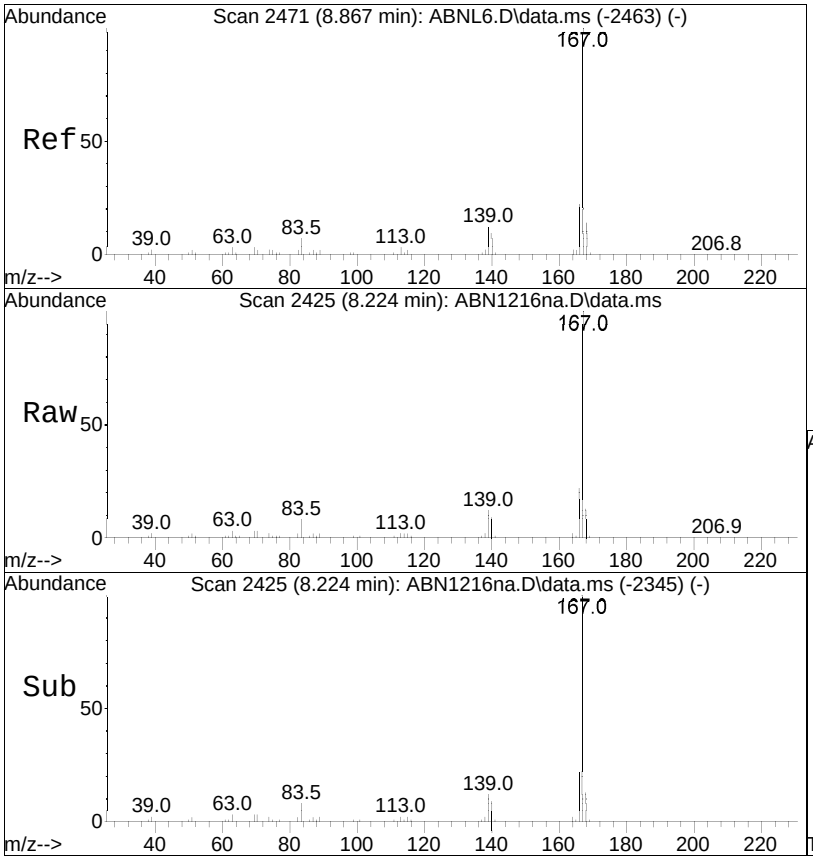


#92
Anthracene
Concen: 4.60 ug/ml
RT: 8.041 min Scan# 2366
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:178 Resp: 200729

Ion	Ratio	Lower	Upper
178	100		
179	15.1	12.0	18.0
176	19.2	14.6	22.0

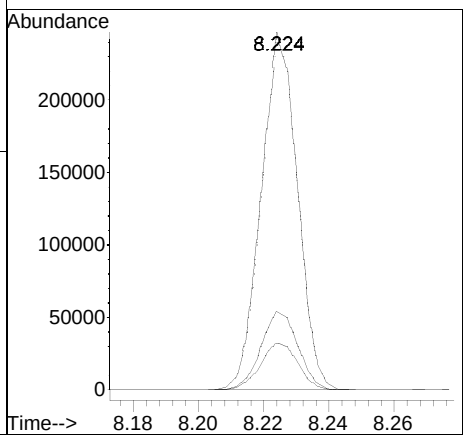


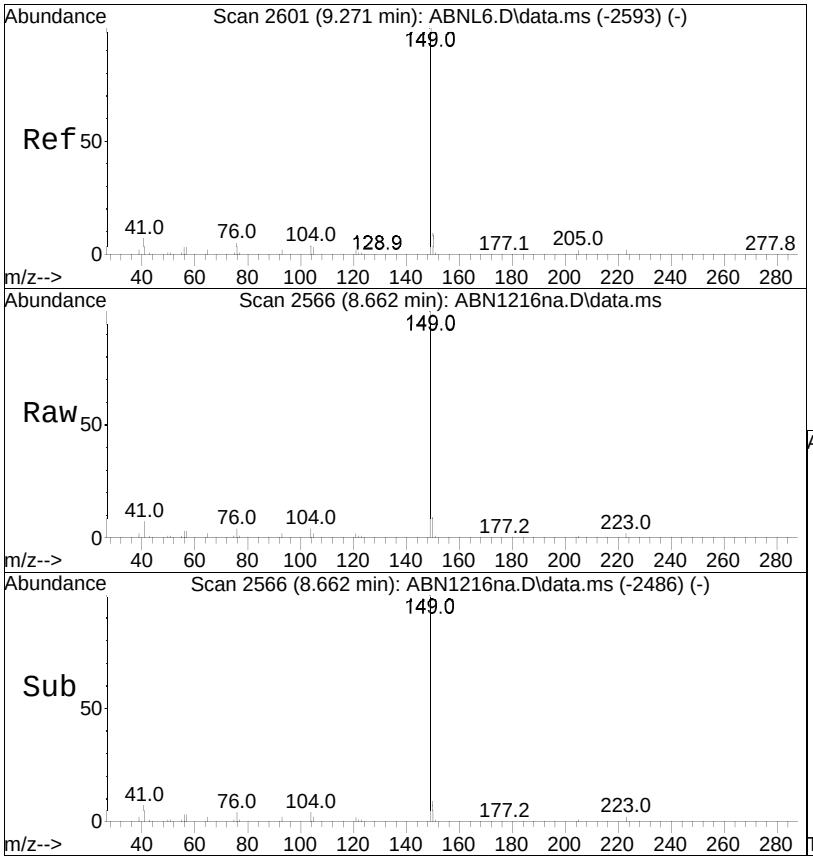


#93
Carbazole
Concen: 4.71 ug/ml
RT: 8.224 min Scan# 2425
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:167 Resp: 188716

Ion	Ratio	Lower	Upper
167	100		
168	13.7	10.6	15.8
166	22.6	17.4	26.0

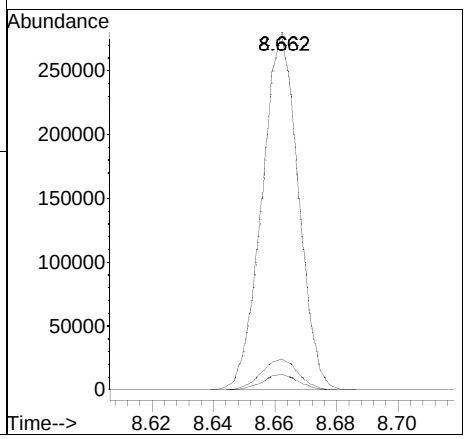


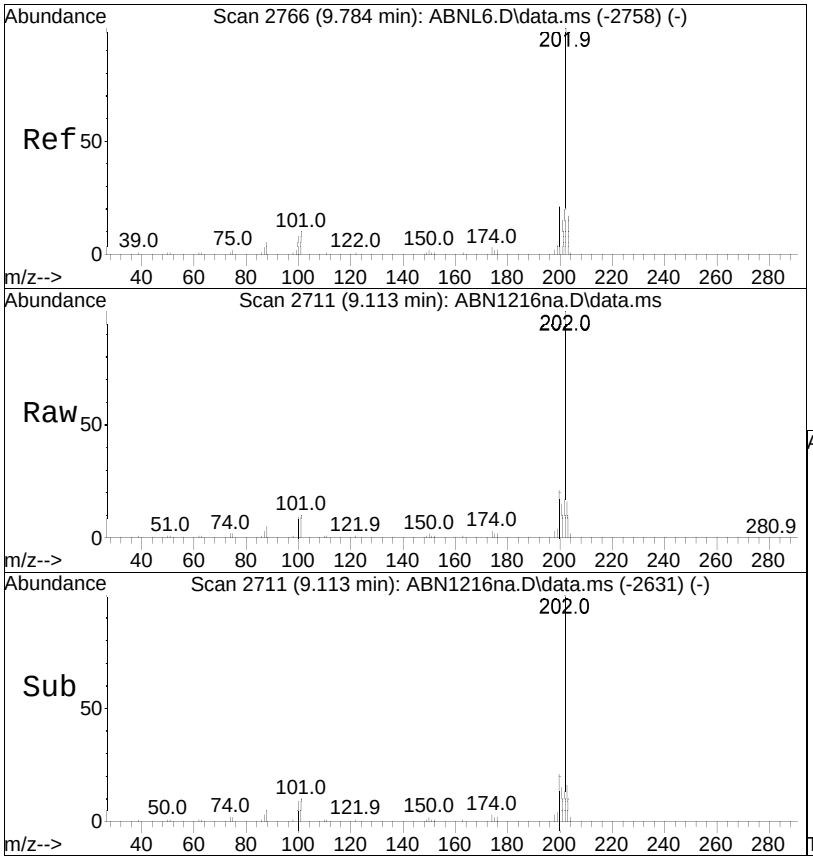


#94
Di-n-butylphthalate
Concen: 4.99 ug/ml
RT: 8.662 min Scan# 2566
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:149 Resp: 226874

Ion	Ratio	Lower	Upper
149	100		
150	8.8	7.0	10.6
104	4.3	4.5	6.7#

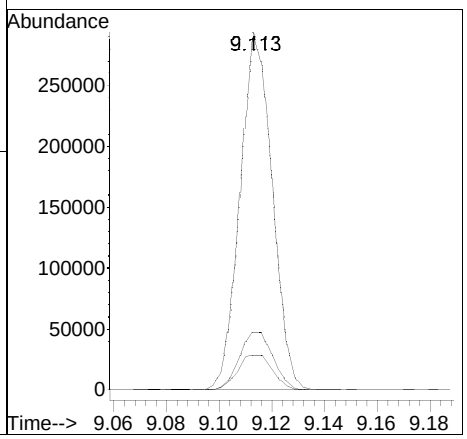


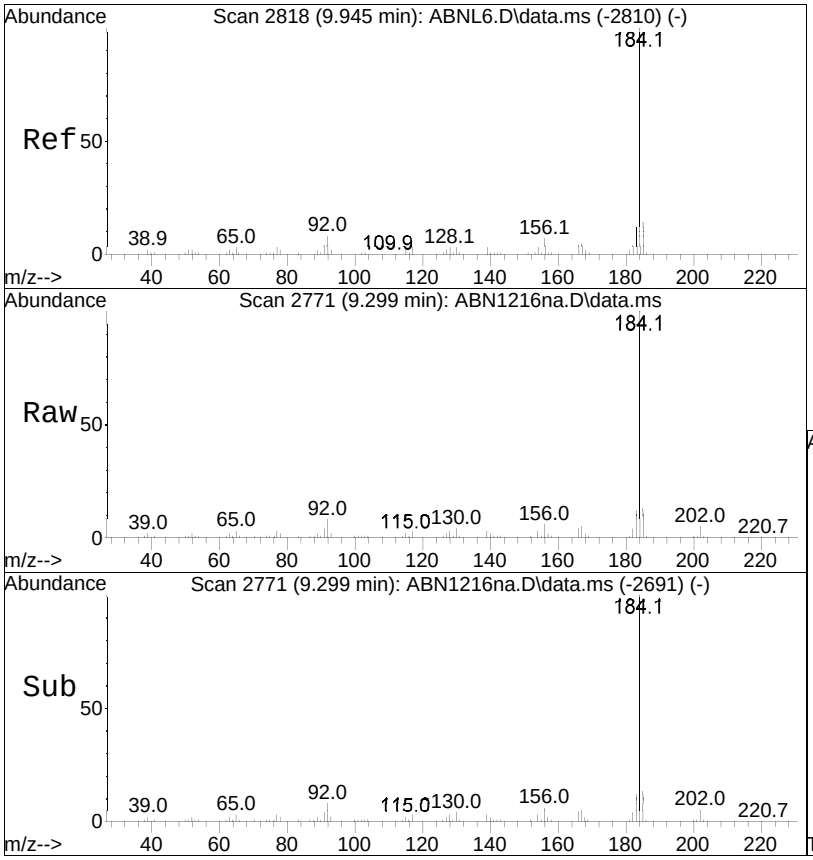


#95
Fluoranthene
Concen: 4.61 ug/ml
RT: 9.113 min Scan# 2711
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:202 Resp: 247166

Ion	Ratio	Lower	Upper
202	100		
101	10.7	13.5	20.3#
203	17.0	13.6	20.4

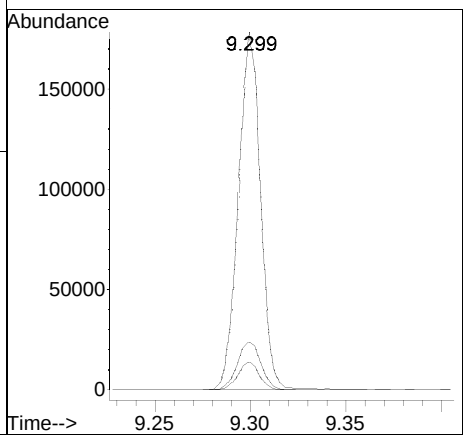


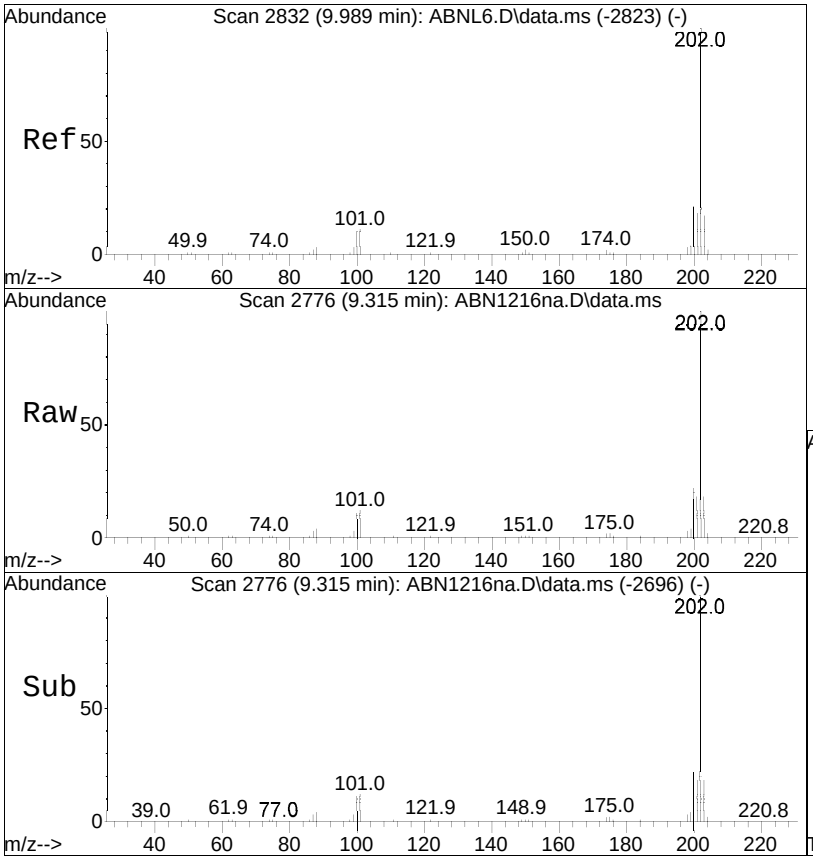


#96
Benzidine
Concen: 4.88 ug/ml
RT: 9.299 min Scan# 2771
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:184 Resp: 141723

Ion	Ratio	Lower	Upper
184	100		
92	7.5	9.1	13.7#
185	14.3	11.1	16.7

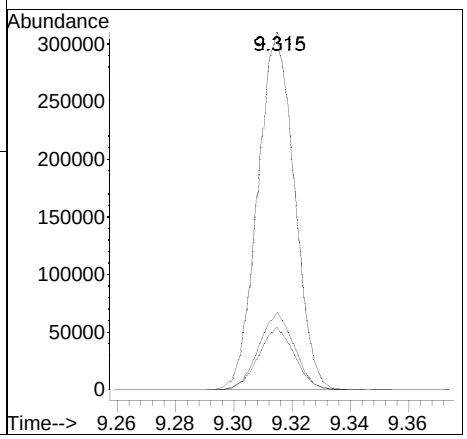


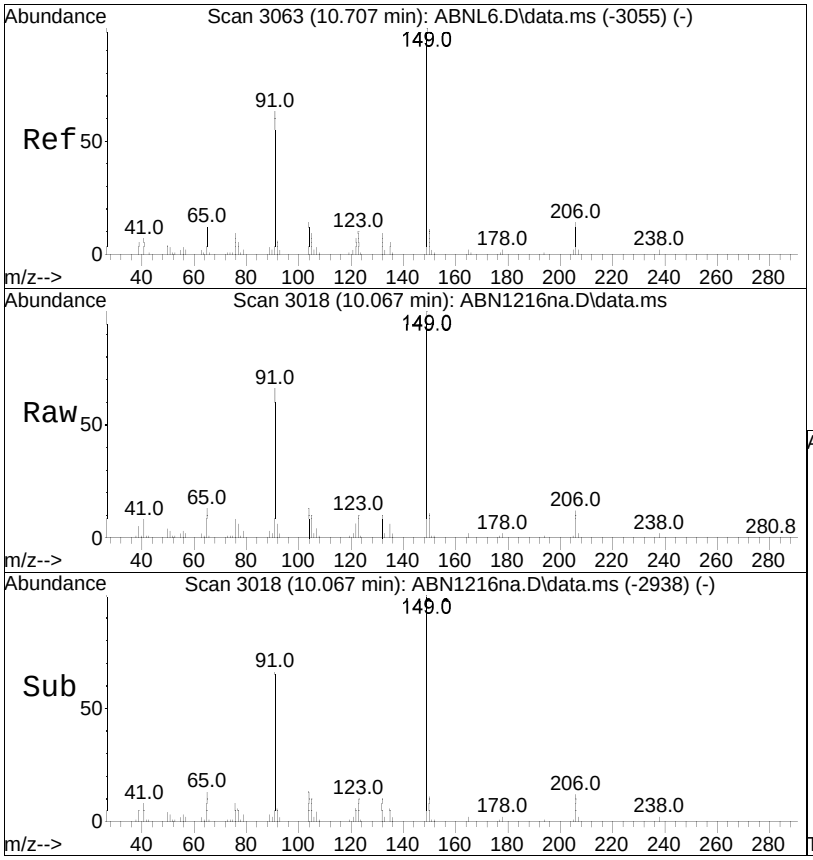


#97
Pyrene
Concen: 4.69 ug/ml
RT: 9.315 min Scan# 2776
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:202 Resp: 268254

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.7	25.1
203	17.3	14.2	21.4

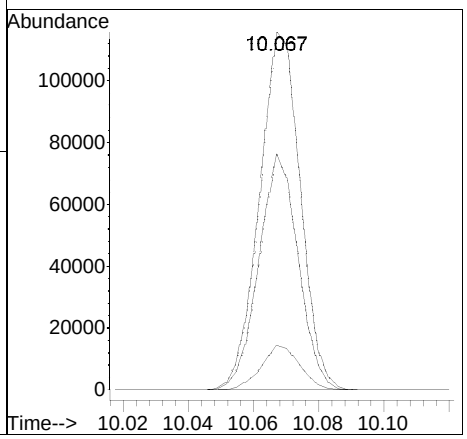


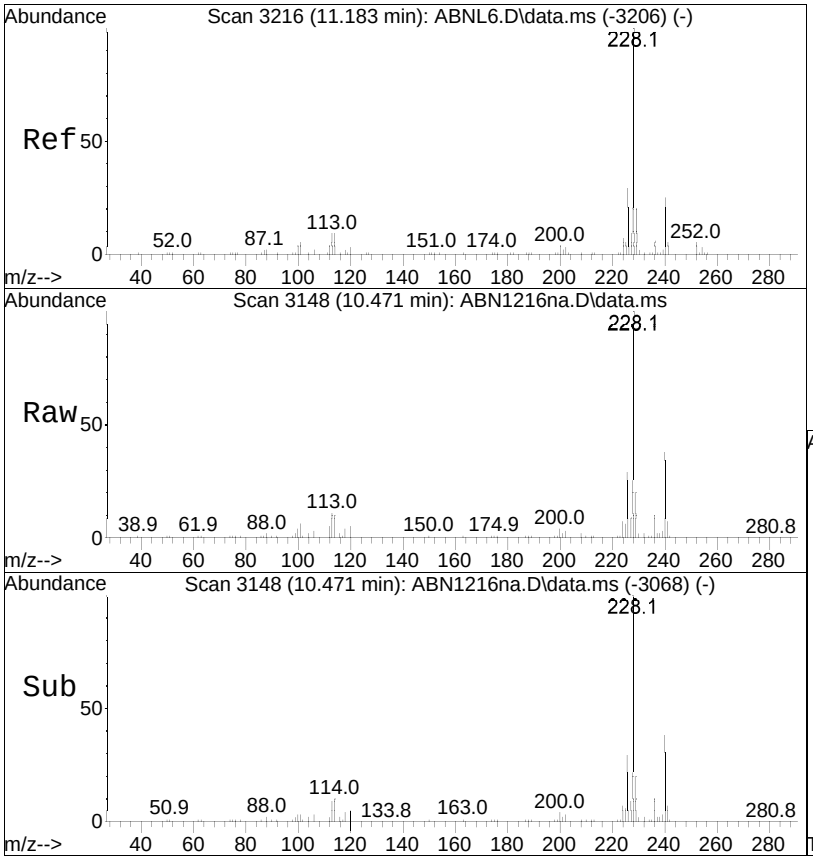


#99
Butyl benzyl phthalate
Concen: 5.12 ug/ml
RT: 10.067 min Scan# 3018
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:149 Resp: 99767

Ion	Ratio	Lower	Upper
149	100		
91	63.8	63.3	94.9
206	11.9	13.9	20.9#

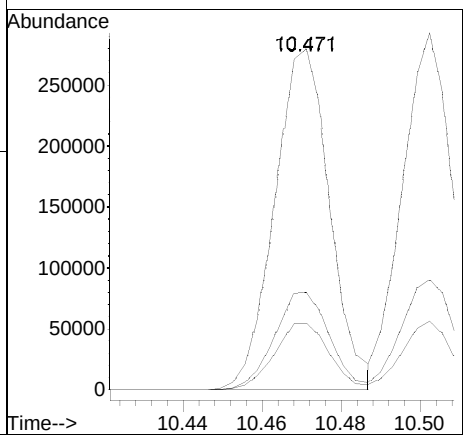


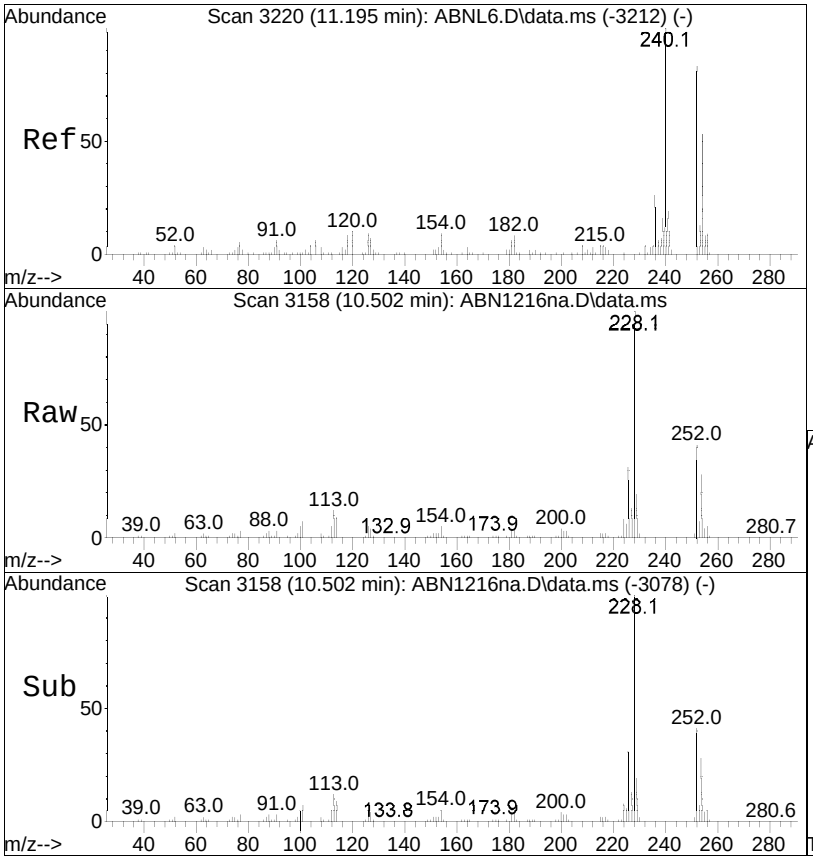


#107
Benzo(a)anthracene
Concen: 4.49 ug/ml
RT: 10.471 min Scan# 3148
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:228 Resp: 270407

Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.2	33.4
229	19.7	15.6	23.4

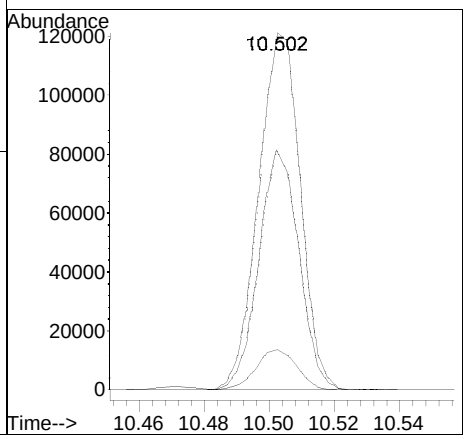


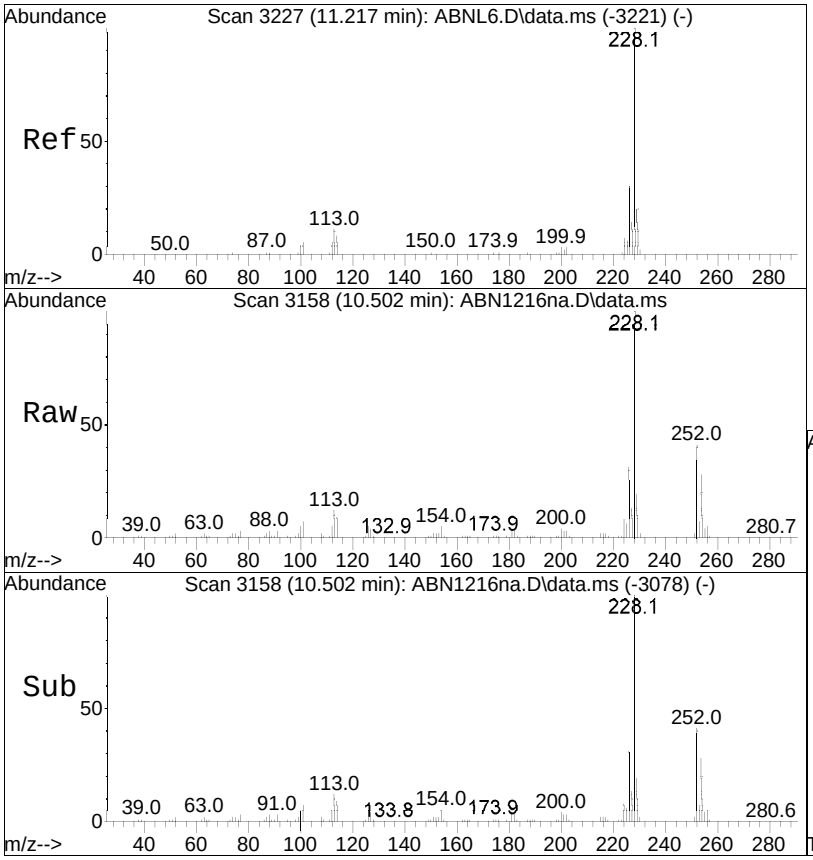


#108
3,3'-Dichlorobenzidine
Concen: 4.78 ug/ml
RT: 10.502 min Scan# 3158
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:252 Resp: 107266

Ion	Ratio	Lower	Upper
252	100		
126	11.3	14.5	21.7#
254	64.5	51.2	76.8

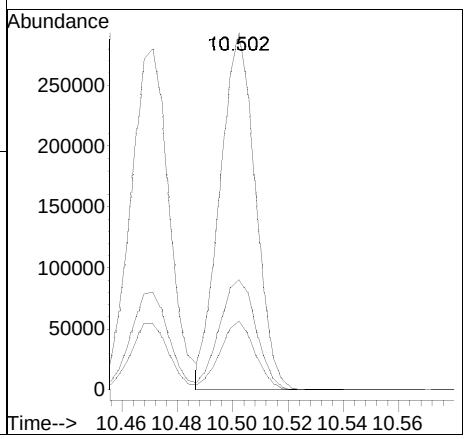


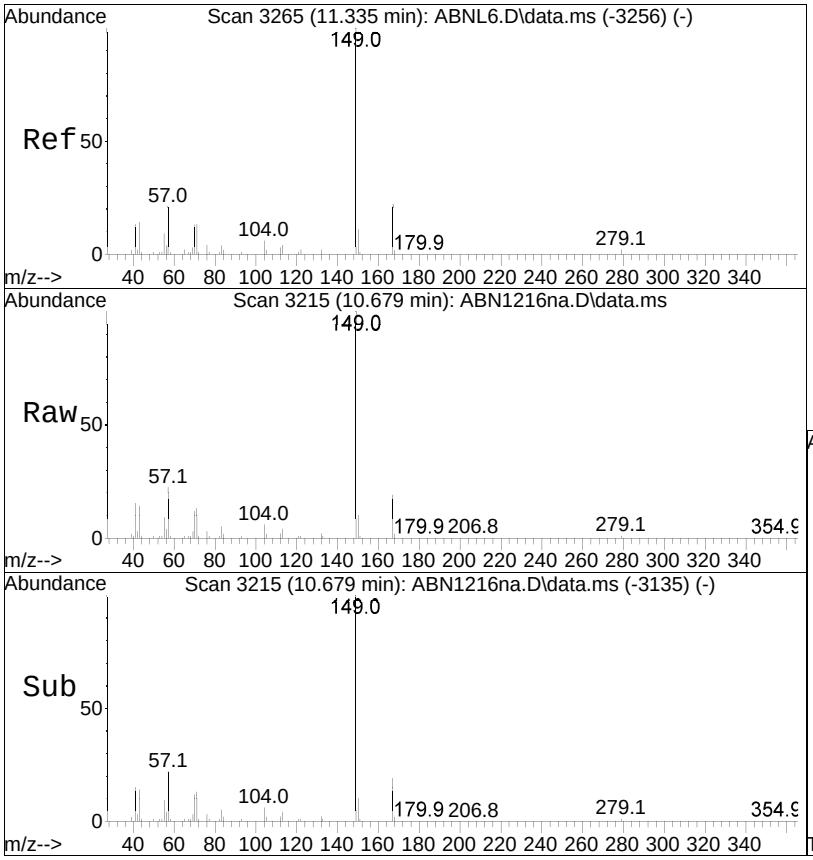


#109
Chrysene
Concen: 4.35 ug/ml
RT: 10.502 min Scan# 3158
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:228 Resp: 260284

Ion	Ratio	Lower	Upper
228	100		
226	31.9	24.0	36.0
229	19.0	15.8	23.8

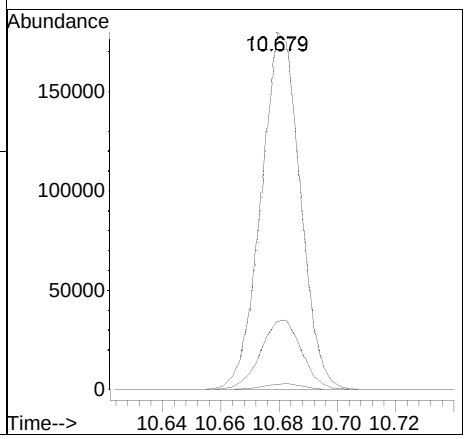


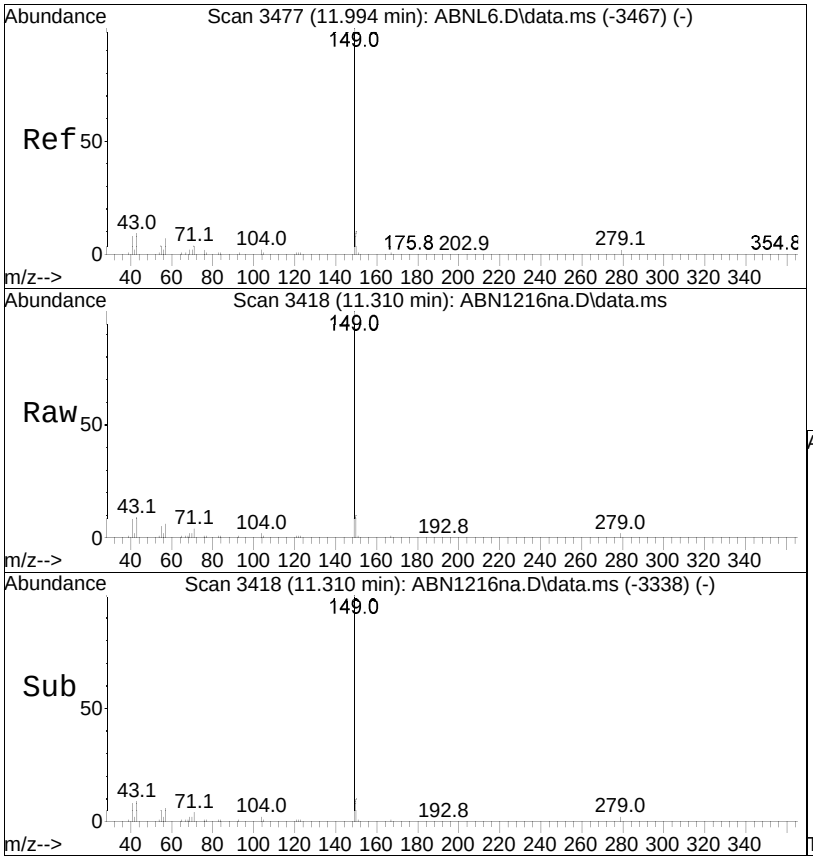


#110
Bis(2-ethylhexyl)phthalate
Concen: 5.16 ug/ml
RT: 10.679 min Scan# 3215
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:149 Resp: 166432

Ion	Ratio	Lower	Upper
149	100		
167	20.4	22.1	33.1#
279	1.4	3.0	4.4#

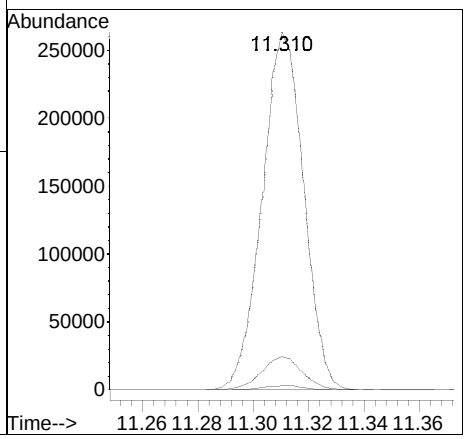


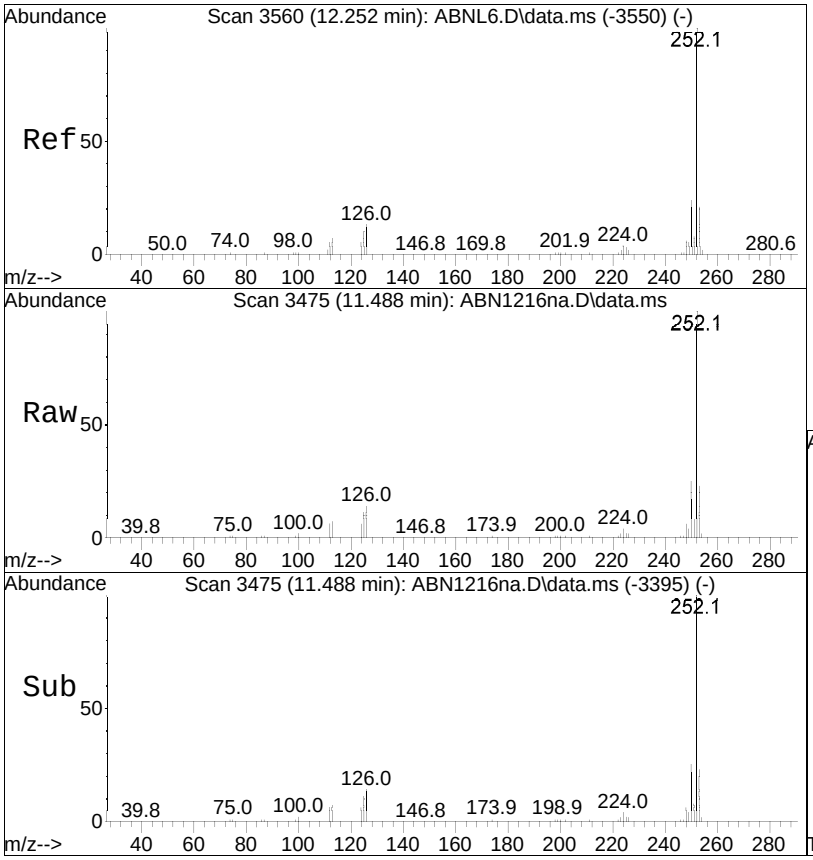


#111
Di-n-octylphthalate
Concen: 5.03 ug/ml
RT: 11.310 min Scan# 3418
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:149 Resp: 270662

Ion	Ratio	Lower	Upper
149	100		
43	9.2	18.8	28.2#
167	1.2	1.3	1.9#

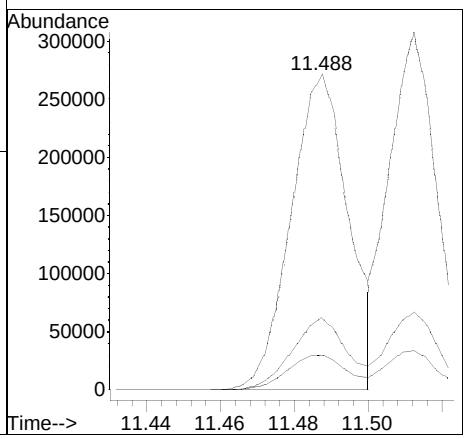


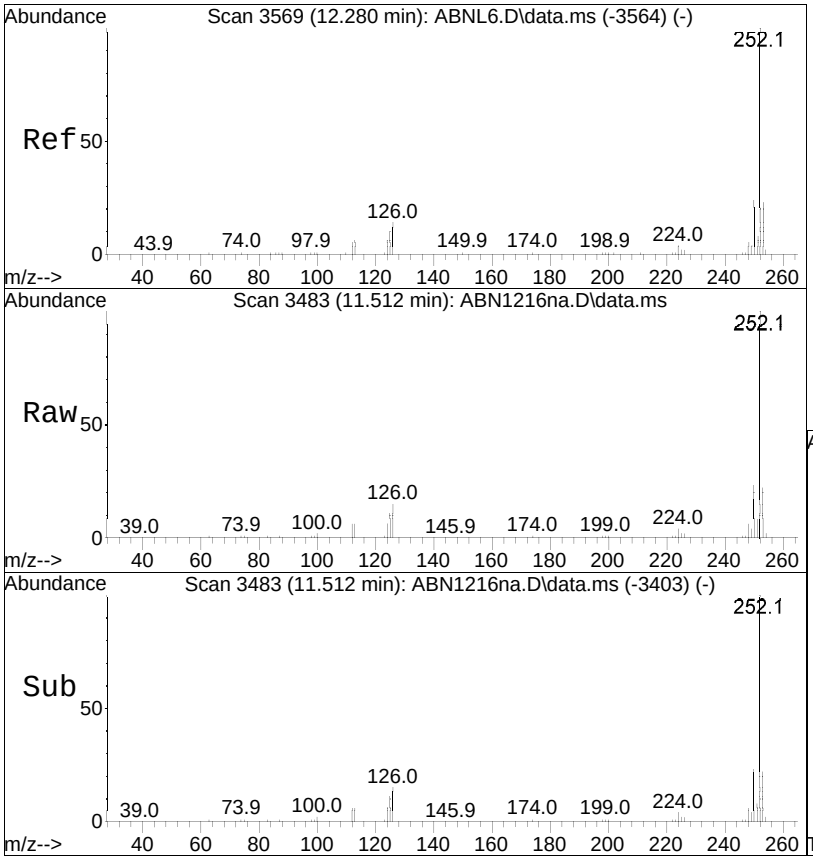


#112
Benzo(b)fluoranthene
Concen: 4.67 ug/ml
RT: 11.488 min Scan# 3475
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:252 Resp: 294234

Ion	Ratio	Lower	Upper
252	100		
125	11.5	13.3	19.9#
253	21.9	17.1	25.7

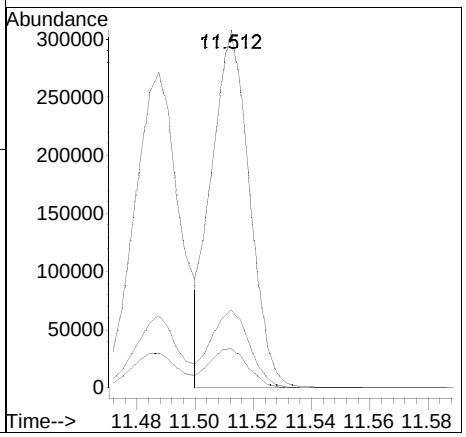


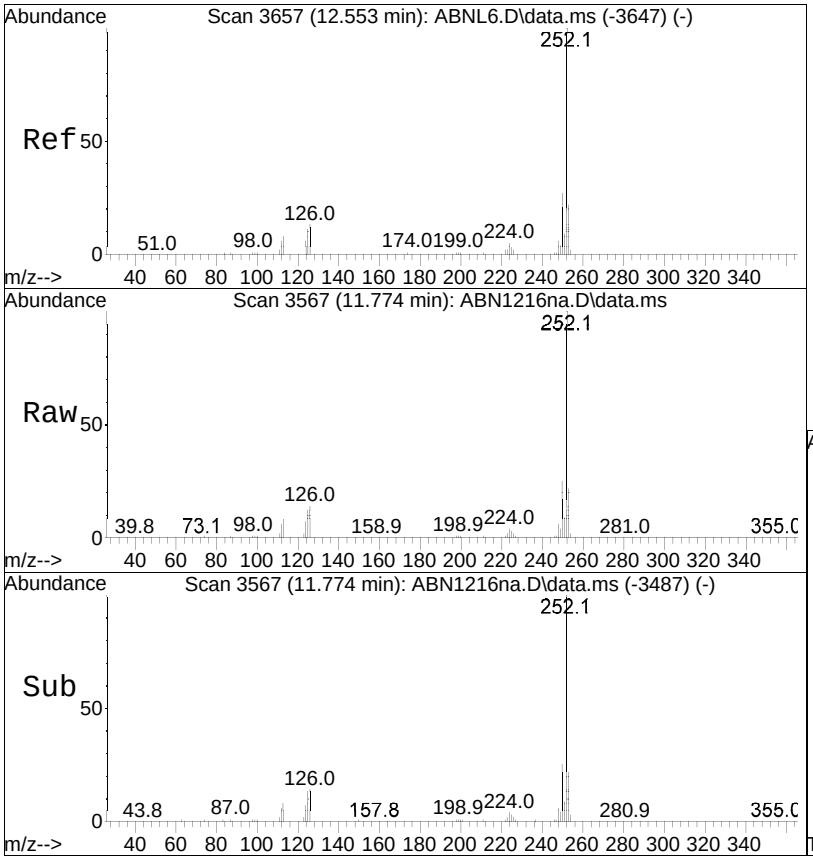


#113
Benzo(k)fluoranthene
Concen: 4.51 ug/ml
RT: 11.512 min Scan# 3483
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:252 Resp: 277031

Ion	Ratio	Lower	Upper
252	100		
125	11.3	13.0	19.6#
253	22.1	16.8	25.2

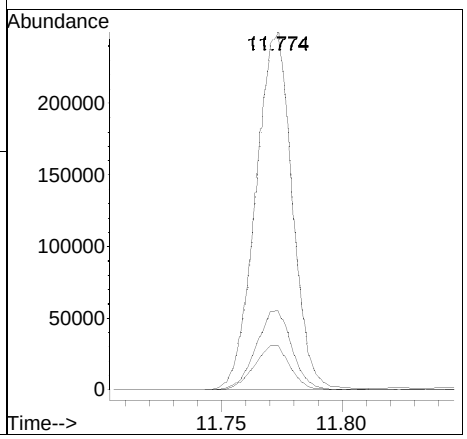


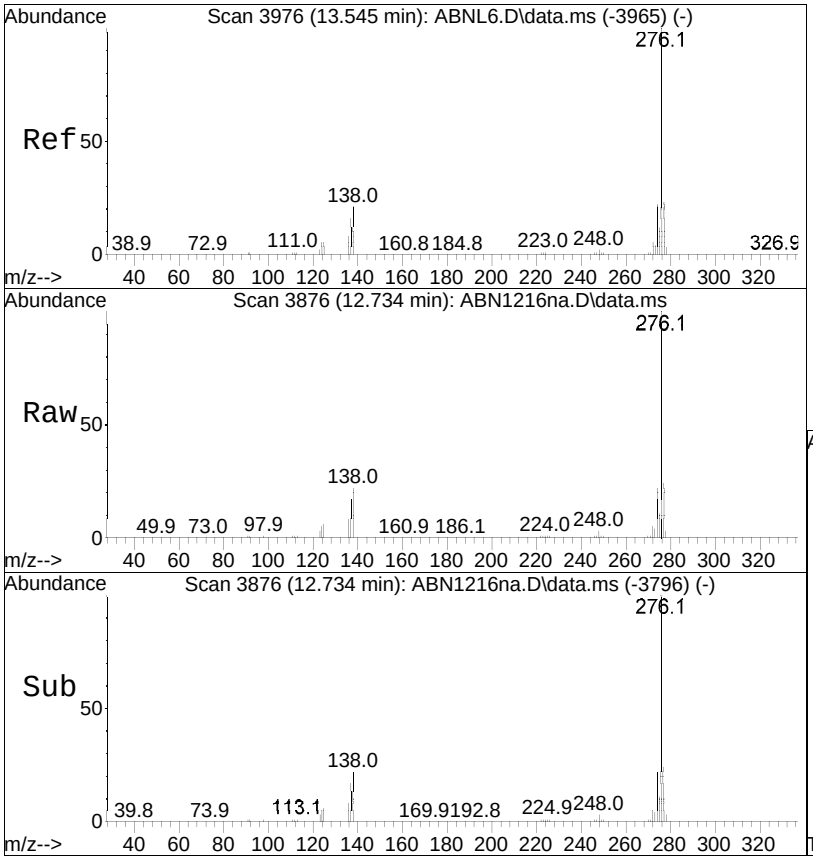


#114
Benzo(a)pyrene
Concen: 4.65 ug/ml
RT: 11.774 min Scan# 3567
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:252 Resp: 261318

Ion	Ratio	Lower	Upper
252	100		
125	12.2	14.2	21.2#
253	21.8	16.9	25.3

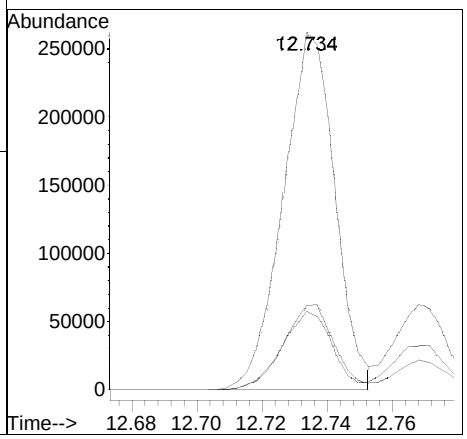


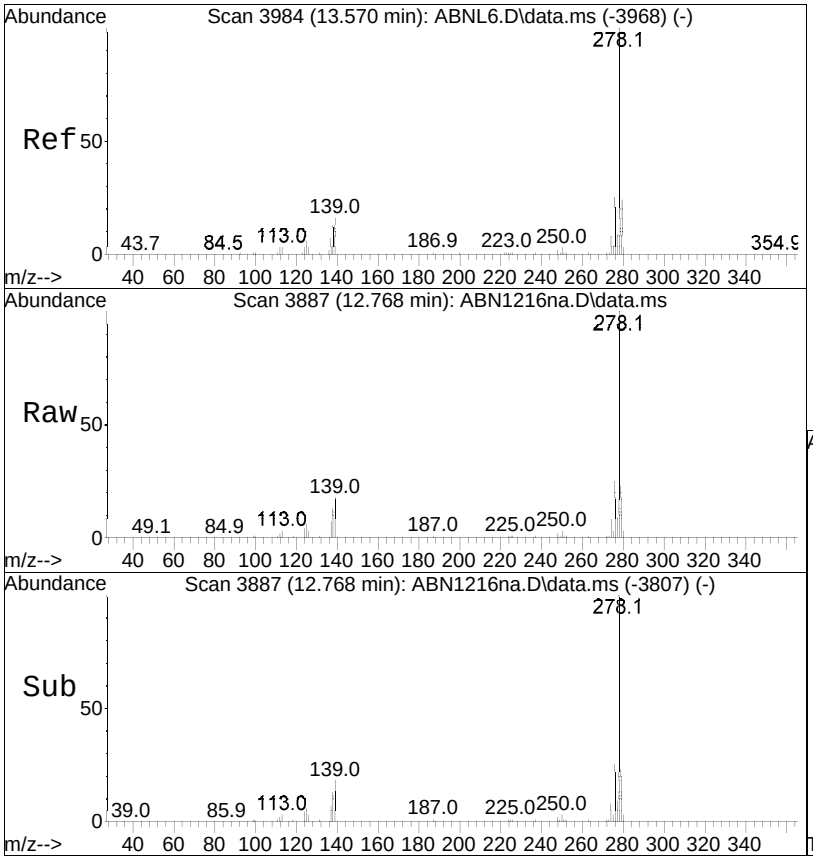


#116
Indeno(1,2,3-cd)pyrene
Concen: 4.57 ug/mL
RT: 12.734 min Scan# 3876
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:276 Resp: 287054

Ion	Ratio	Lower	Upper
276	100		
138	21.6	25.1	37.7#
277	23.7	18.6	28.0

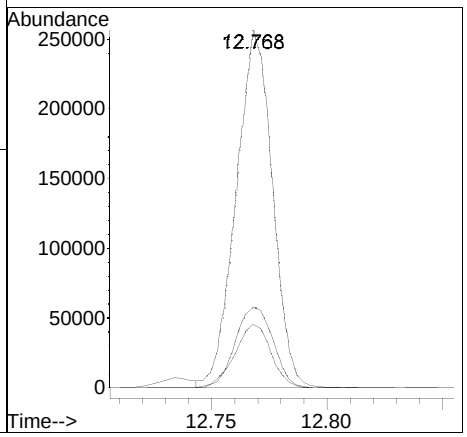


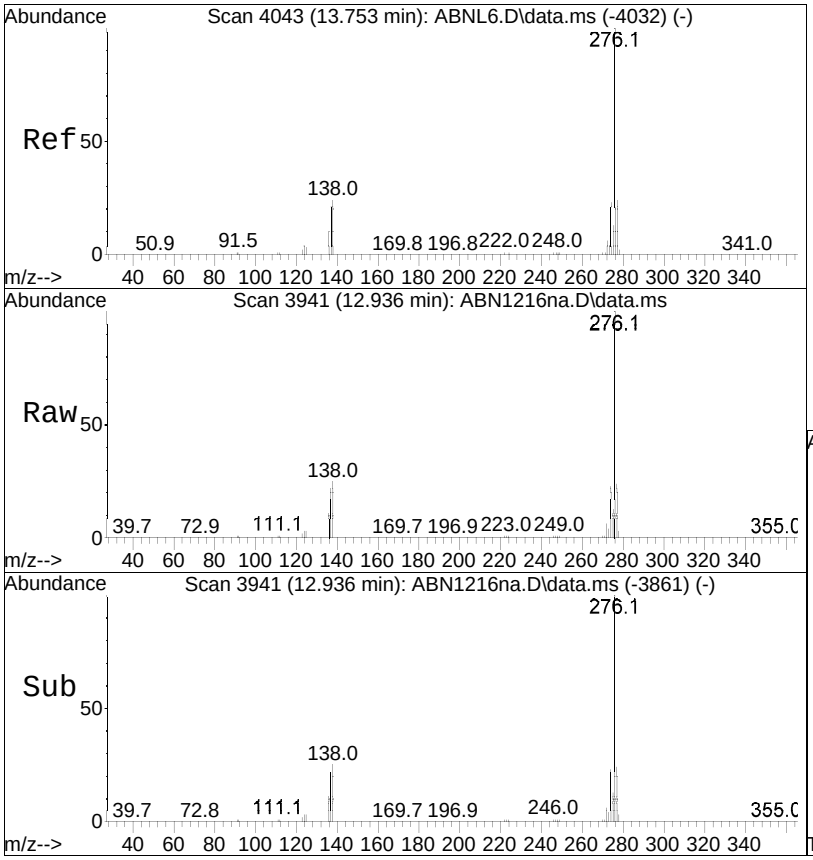


#117
Dibenzo(a,h)anthracene
Concen: 4.51 ug/ml
RT: 12.768 min Scan# 3887
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:278 Resp: 278635

Ion	Ratio	Lower	Upper
278	100		
139	17.7	20.8	31.2#
279	24.0	18.3	27.5

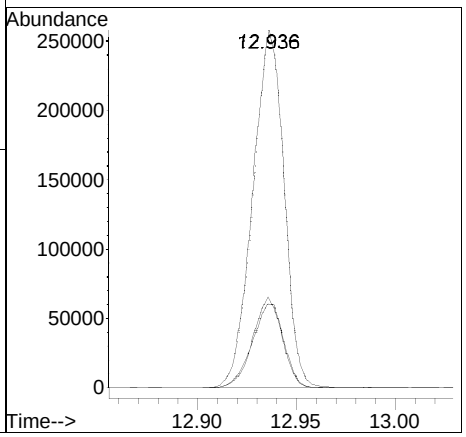




#118
Benzo(ghi)perylene
Concen: 4.62 ug/ml
RT: 12.936 min Scan# 3941
Delta R.T. 0.000 min
Lab File: ABN1216na.D
Acq: 16 Dec 2024 11:28 pm

Tgt Ion:276 Resp: 280745

Ion	Ratio	Lower	Upper
276	100		
138	24.3	29.2	43.8#
277	23.7	18.8	28.2



Manual Integration Report

Data Path	: I:\8270\Dakota\241216NA	RVTQMethod	: FS241105RVT_Dakota.m
Data File	: ABN1216na.D	Operator	: Dakota:ljg
Date Inj'd	: 12/16/2024 11:28 pm	Instrument	: Dakota
Sample	: WG2009953-3,32,,ABN RVT CC	Quant Date	: 12/17/2024 10:51 am

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\241216NARVT\
Data File : AP91216na.D
Acq On : 16 Dec 2024 11:50 pm
Operator : Dakota:ljg
Sample : WG2009953-4,32,,AP9 RVT CCV Lot # 11152
Misc : WG2009953,,ical21680
ALS Vial : 97 Sample Multiplier: 1

Quant Time: Dec 17 00:21:23 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:22:55 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	92	0.00
28	T	Benzaldehyde	0.703	0.751	-6.8	91	0.00
29	T	Acetophenone	1.403	1.498	-6.8	94	0.00
30	T	m-Toluidine	1.287	1.380	-7.2	96	0.00
31	T	2-Chloroaniline	1.368	1.502	-9.8	97	0.00
57	I	IS2_Naphthalene-d8	1.000	1.000	0.0	97	0.00
58	T	a-Terpineol	0.221	0.247	-11.8	102	0.00
59	T	3-Chloroaniline	0.115	0.125	-8.7	97	0.00
60	T	2,6-Dichlorophenol	0.296	0.323	-9.1	98	0.00
61	T	1-chloro-2-nitrobenzene	0.113	0.125	-10.6	96	0.00
62	T	Caprolactam	0.123	0.135	-9.8	103	0.00
63	T	1,2,4,5-Tetrachlorobenzene	0.413	0.410	0.7	91	0.00
64	T	Biphenyl	0.842	0.875	-3.9	95	0.00
85	I	IS2_Acenaphthene-d10	1.000	1.000	0.0	97	0.00
86	T	Dichloran	0.169	0.188	-11.2	111	0.00
87	T	Pentachloronitrobenzene	0.187	0.212	-13.4	114	0.00
100	I	IS2_Phenanthrene-d10	1.000	1.000	0.0	101	0.00
101	T	Diphenamid	0.416	0.468	-12.5	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\Dakota\241216NARVT\
Data File : AP91216na.D
Acq On : 16 Dec 2024 11:50 pm
Operator : Dakota:ljg
Sample : WG2009953-4,32,,AP9 RVT CCV Lot # 11152
Misc : WG2009953,,ical21680
ALS Vial : 97 Sample Multiplier: 1

Quant Time: Dec 17 00:21:23 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:22:55 2024
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...	3.636	152	26042	4.000	ug/ml		0.00
57)	IS2_Naphthalene-d8	4.898	136	95704	4.000	ug/ml	#	0.00
85)	IS2_Acenaphthene-d10	6.580	164	62423	4.000	ug/ml		0.00
100)	IS2_Phenanthrene-d10	7.969	188	144387	4.000	ug/ml		0.00
	System Monitoring Compounds							
	Target Compounds							Qvalue
28)	Benzaldehyde	3.170	105	24449	5.338	ug/ml		98
29)	Acetophenone	4.078	105	48779	5.339	ug/ml	#	79
30)	m-Toluidine	4.168	106	44938	5.364	ug/ml		95
31)	2-Chloroaniline	4.525	127	48881	5.488	ug/ml	#	90
58)	a-Terpineol	4.989	59	29598	5.587	ug/ml	#	83
59)	3-Chloroaniline	5.001	65	14964	5.458	ug/ml		97
60)	2,6-Dichlorophenol	5.020	162	38631	5.463	ug/ml	#	82
61)	1-chloro-2-nitrobenzene	5.271	111	14939	5.504	ug/ml	#	1
62)	Caprolactam	5.315	55	16192	5.507	ug/ml	#	76
63)	1,2,4,5-Tetrachloroben...	5.769	216	48989	4.958	ug/ml		96
64)	Biphenyl	6.064	154	104717	5.200	ug/ml		96
86)	Dichloran	7.702	206	14700	5.575	ug/ml	#	57
87)	Pentachloronitrobenzene	7.842	237	16505	5.669	ug/ml	#	77
101)	Diphenamid	8.908	167	84496	5.628	ug/ml	#	77

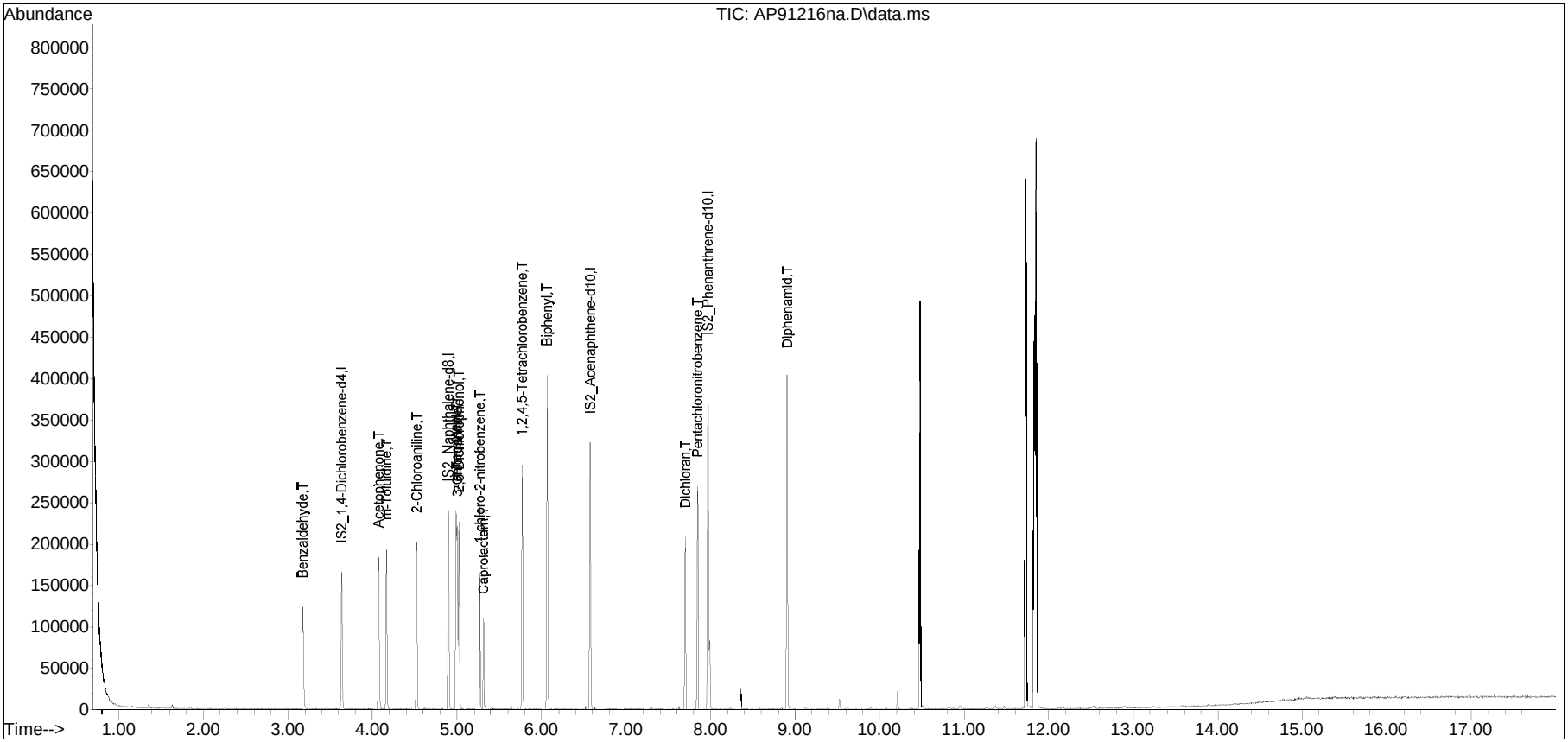
(#) = qualifier out of range (m) = manual integration (+) = signals summed

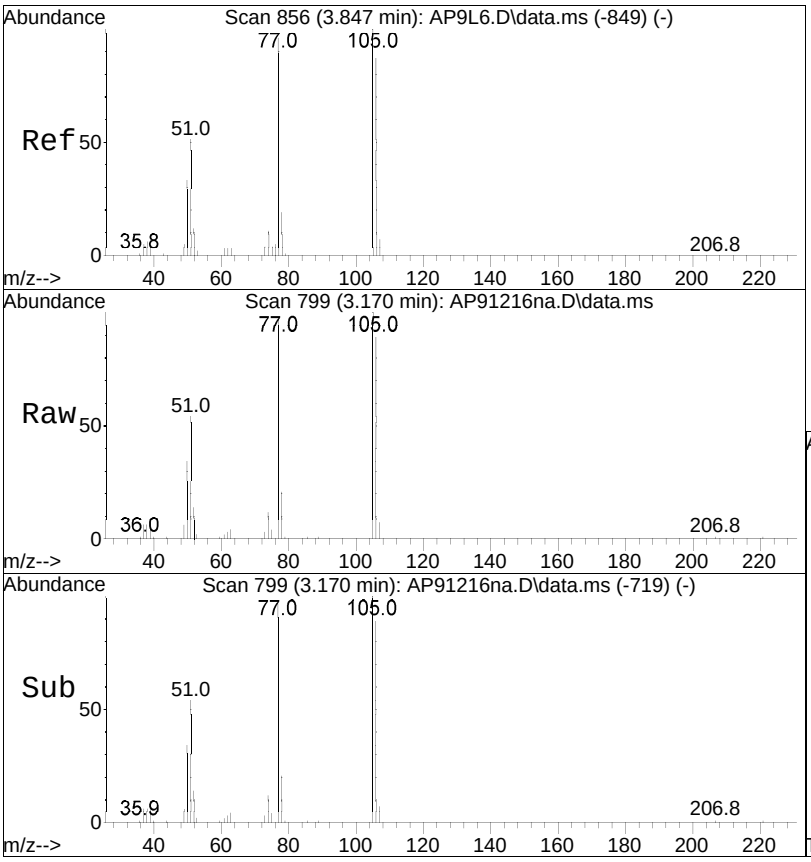
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : AP91216na.D
Acq On : 16 Dec 2024 11:50 pm
Operator : Dakota:ljg
Sample : WG2009953-4,32,,AP9 RVT CCV Lot # 11152
Misc : WG2009953,,ical21680
ALS Vial : 97 Sample Multiplier: 1

Quant Time: Dec 17 00:21:23 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:22:55 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

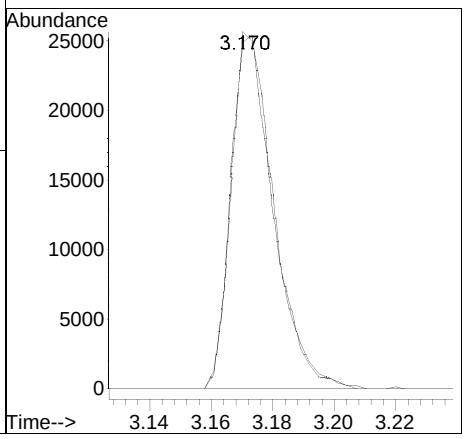


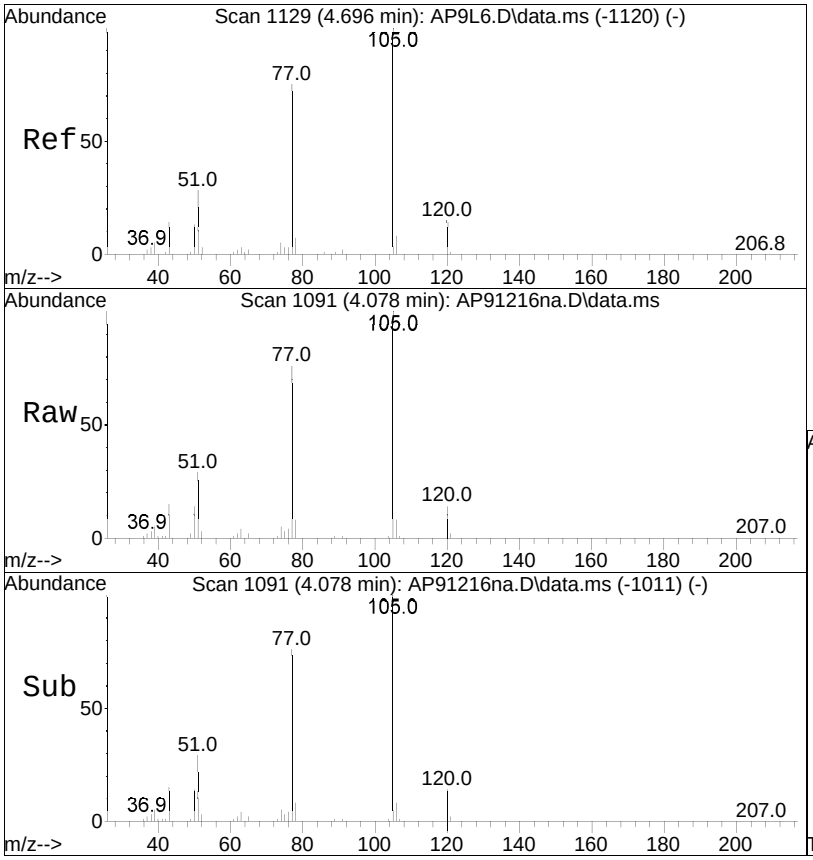


#28
Benzaldehyde
Concen: 5.34 ug/ml
RT: 3.170 min Scan# 799
Delta R.T. 0.000 min
Lab File: AP91216na.D
Acq: 16 Dec 2024 11:50 pm

Tgt Ion:105 Resp: 24449

Ion	Ratio	Lower	Upper
105	100		
77	100.5	82.2	123.4

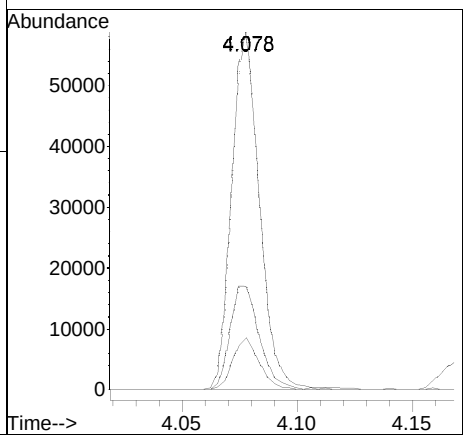


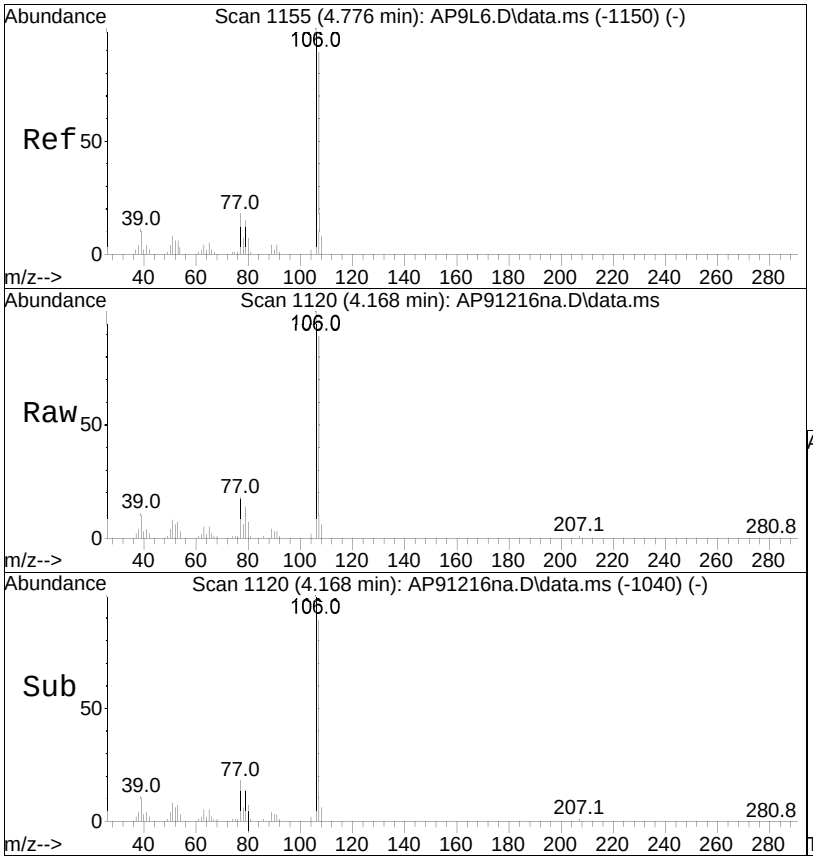


#29
Acetophenone
Concen: 5.34 ug/ml
RT: 4.078 min Scan# 1091
Delta R.T. 0.000 min
Lab File: AP91216na.D
Acq: 16 Dec 2024 11:50 pm

Tgt Ion:105 Resp: 48779

Ion	Ratio	Lower	Upper
105	100		
120	13.7	20.5	30.7#
51	30.5	34.9	52.3#

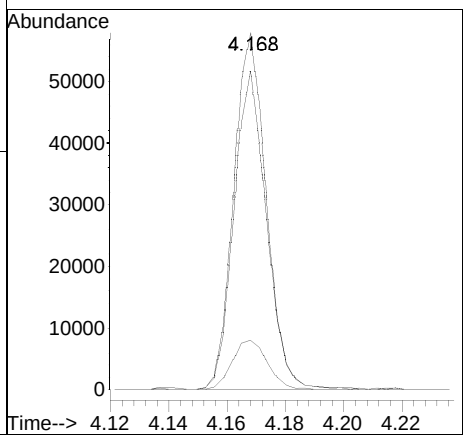


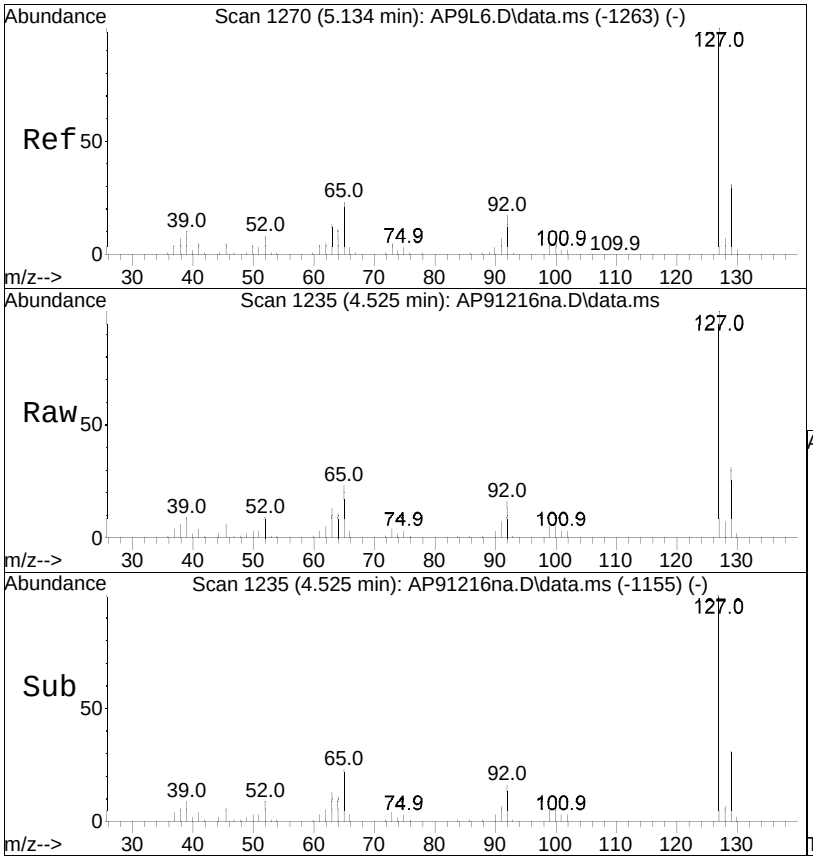


#30
m-Toluidine
Concen: 5.36 ug/ml
RT: 4.168 min Scan# 1120
Delta R.T. 0.000 min
Lab File: AP91216na.D
Acq: 16 Dec 2024 11:50 pm

Tgt Ion:106 Resp: 44938

Ion	Ratio	Lower	Upper
106	100		
107	89.2	75.7	113.5
79	14.9	11.8	17.8

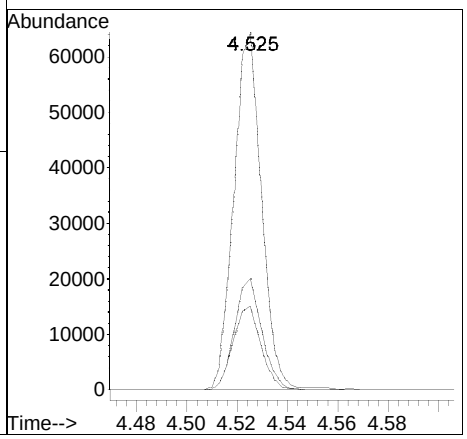


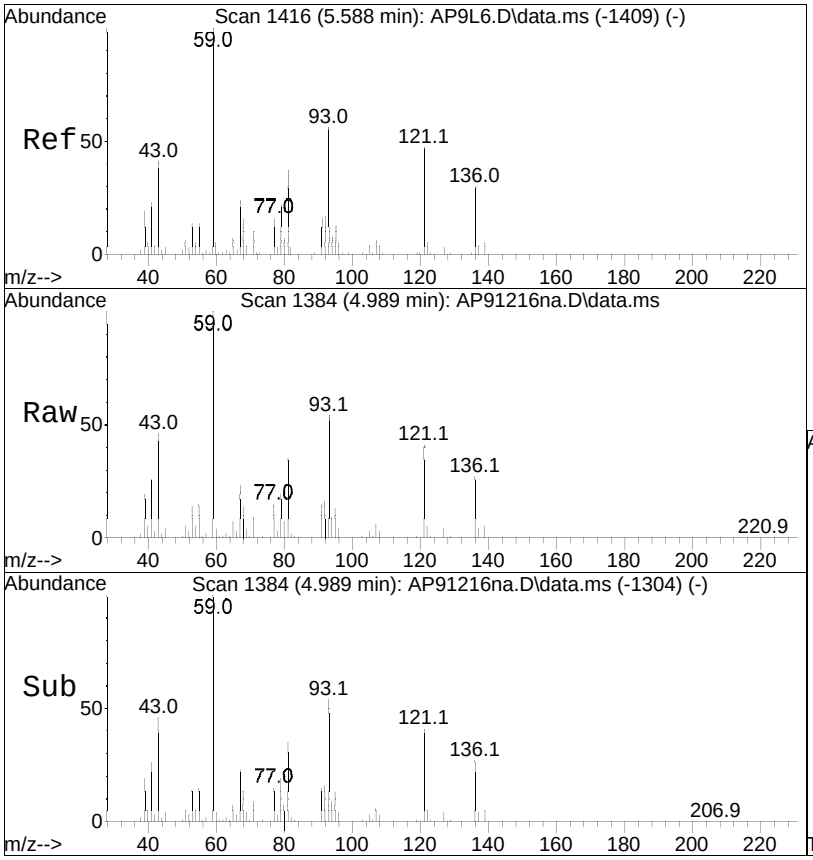


#31
2-Chloroaniline
Concen: 5.49 ug/ml
RT: 4.525 min Scan# 1235
Delta R.T. 0.000 min
Lab File: AP91216na.D
Acq: 16 Dec 2024 11:50 pm

Tgt Ion:127 Resp: 48881

Ion	Ratio	Lower	Upper
127	100		
129	30.8	25.9	38.9
65	23.7	26.3	39.5#

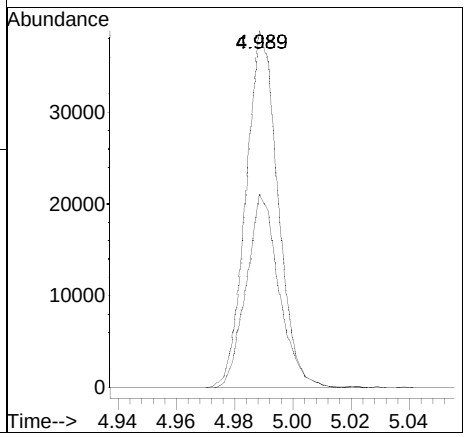


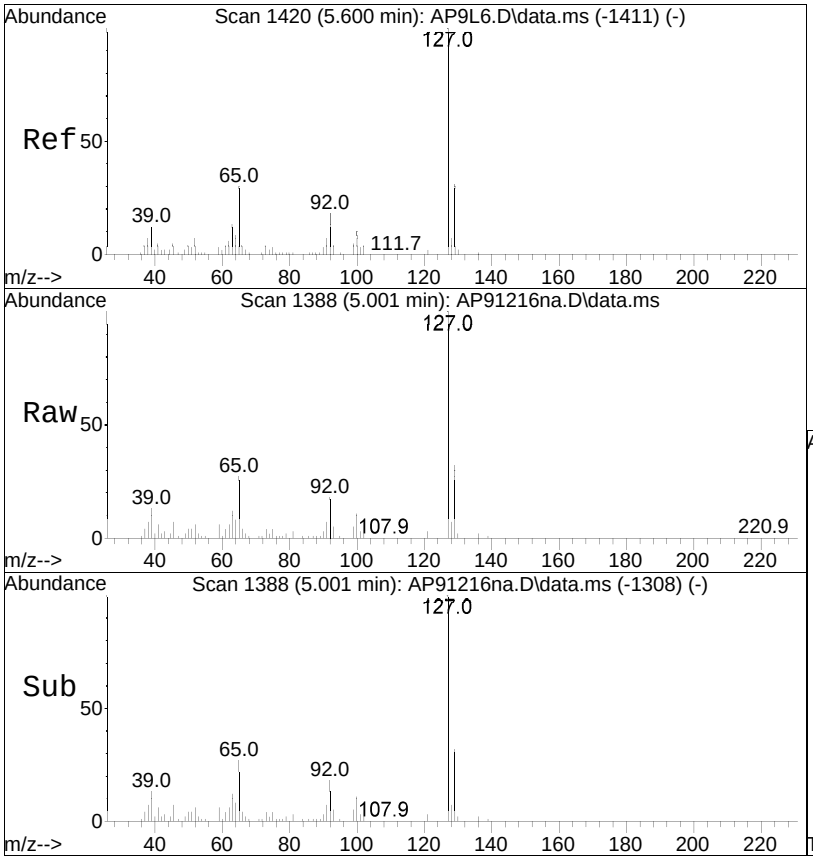


#58
a-Terpineol
Concen: 5.59 ug/ml
RT: 4.989 min Scan# 1384
Delta R.T. 0.000 min
Lab File: AP91216na.D
Acq: 16 Dec 2024 11:50 pm

Tgt Ion: 59 Resp: 29598

Ion	Ratio	Lower	Upper
59	100		
93	55.6	35.6	53.4#

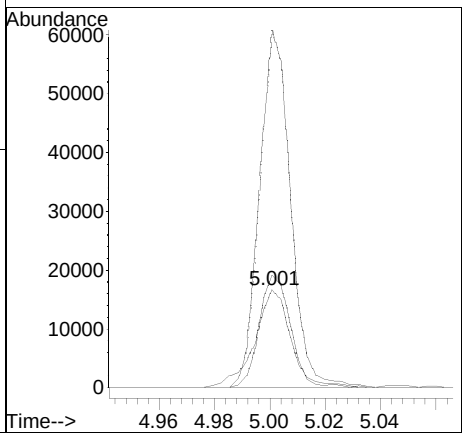


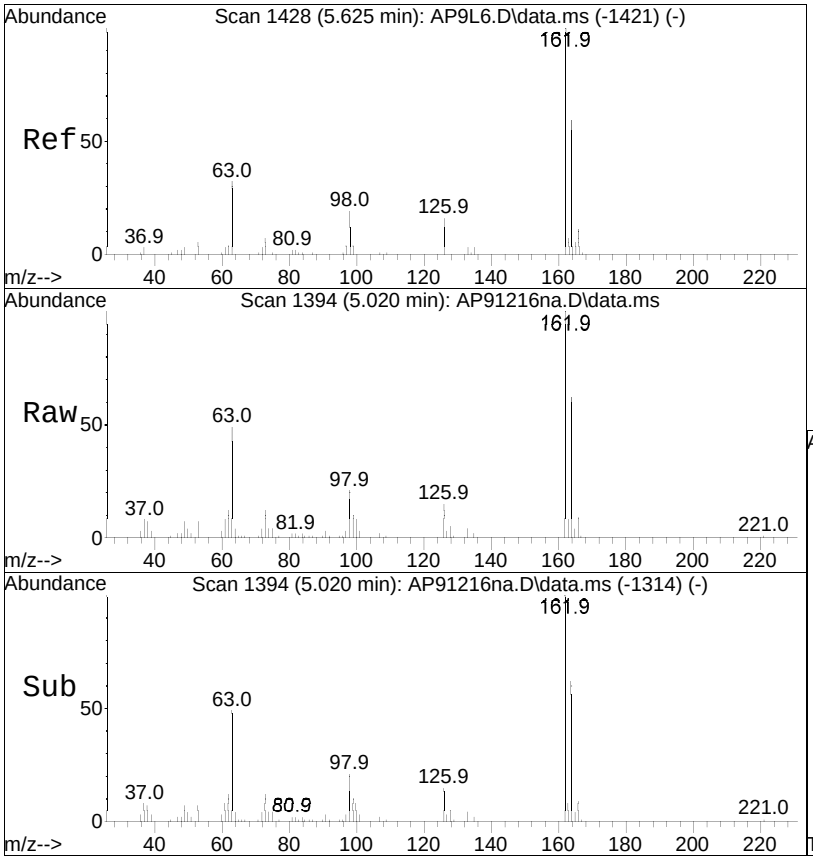


#59
3-Chloroaniline
Concen: 5.46 ug/ml
RT: 5.001 min Scan# 1388
Delta R.T. 0.000 min
Lab File: AP91216na.D
Acq: 16 Dec 2024 11:50 pm

Tgt Ion: 65 Resp: 14964

Ion	Ratio	Lower	Upper
65	100		
127	312.1	243.2	364.8
129	99.6	78.8	118.2

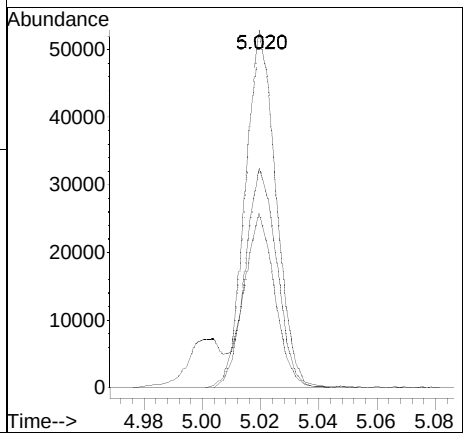


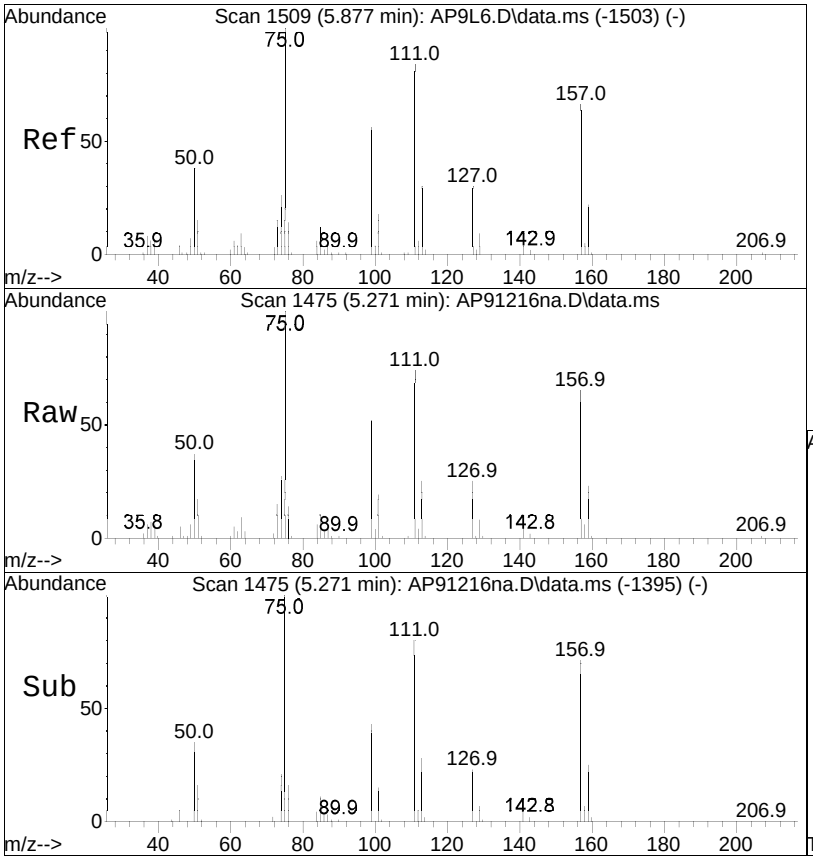


#60
2,6-Dichlorophenol
Concen: 5.46 ug/ml
RT: 5.020 min Scan# 1394
Delta R.T. 0.000 min
Lab File: AP91216na.D
Acq: 16 Dec 2024 11:50 pm

Tgt Ion:162 Resp: 38631

Ion	Ratio	Lower	Upper
162	100		
164	62.6	51.1	76.7
63	49.2	60.8	91.2#

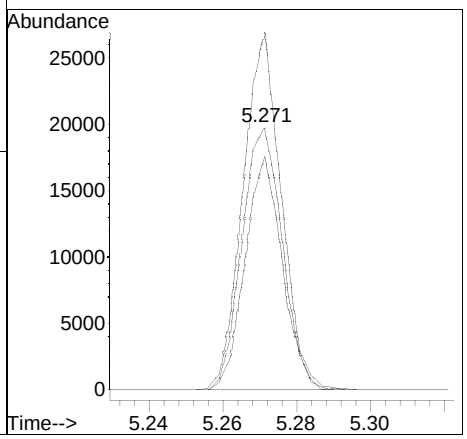


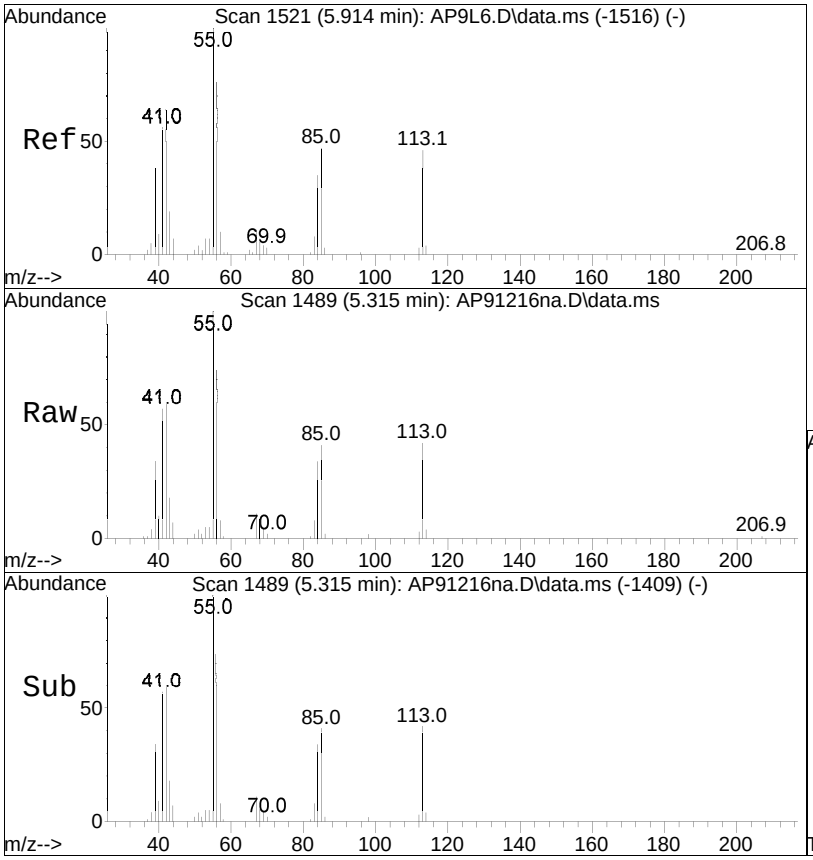


#61
1-chloro-2-nitrobenzene
Concen: 5.50 ug/ml
RT: 5.271 min Scan# 1475
Delta R.T. 0.000 min
Lab File: AP91216na.D
Acq: 16 Dec 2024 11:50 pm

Tgt Ion:111 Resp: 14939

Ion	Ratio	Lower	Upper
111	100		
157	82.0	0.0	0.0#
75	129.2	28.2	42.2#

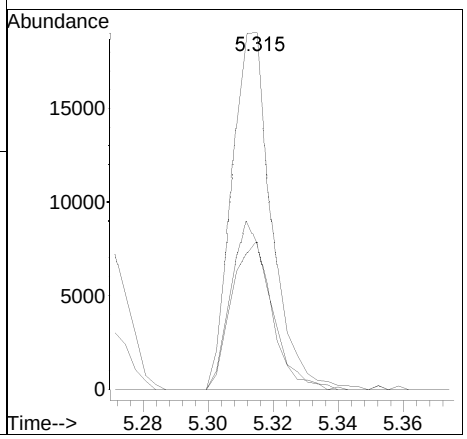


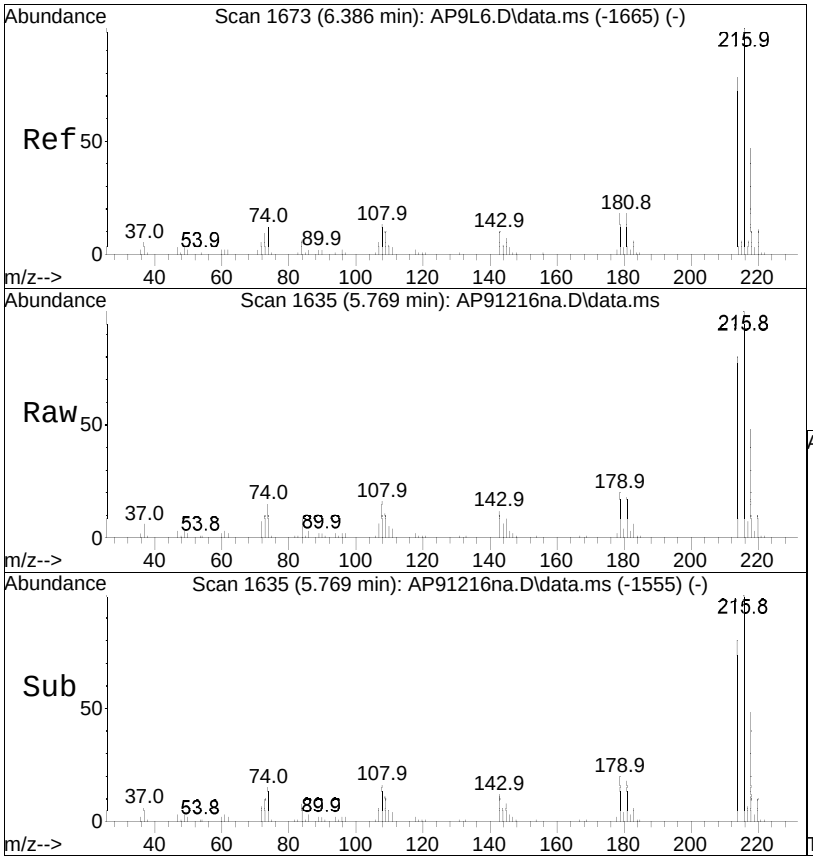


#62
Caprolactam
Concen: 5.51 ug/ml
RT: 5.315 min Scan# 1489
Delta R.T. 0.000 min
Lab File: AP91216na.D
Acq: 16 Dec 2024 11:50 pm

Tgt Ion: 55 Resp: 16192

Ion	Ratio	Lower	Upper
55	100		
85	46.0	19.8	29.6#
113	43.5	29.6	44.4

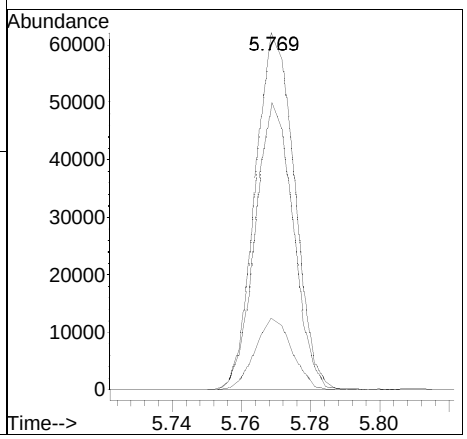


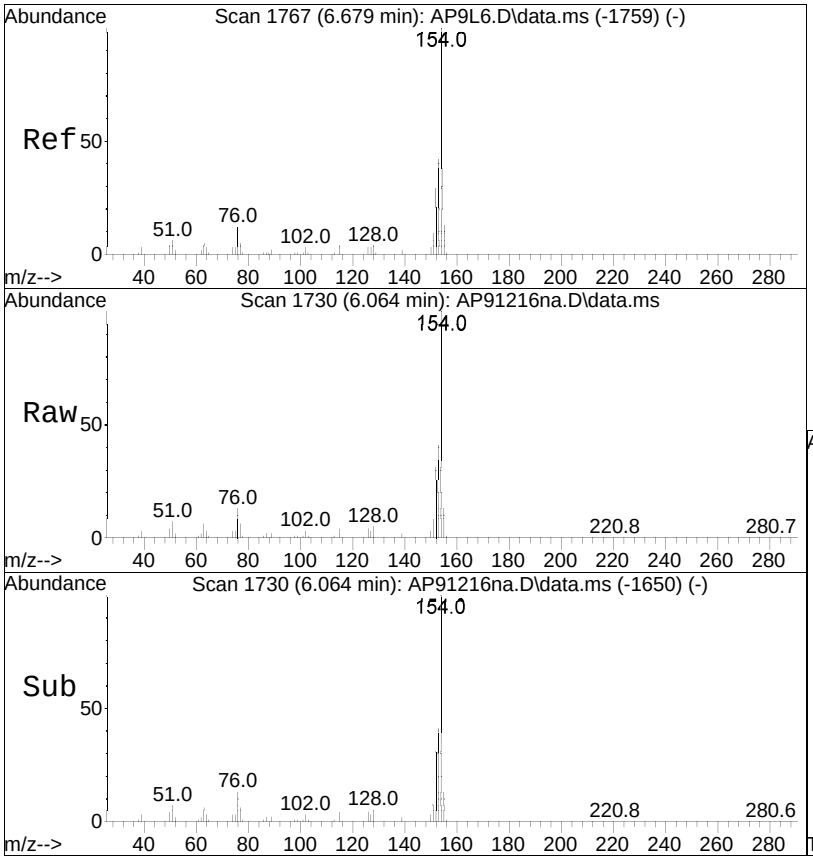


#63
1,2,4,5-Tetrachlorobenzene
Concen: 4.96 ug/ml
RT: 5.769 min Scan# 1635
Delta R.T. 0.000 min
Lab File: AP91216na.D
Acq: 16 Dec 2024 11:50 pm

Tgt Ion:216 Resp: 48989

Ion	Ratio	Lower	Upper
216	100		
214	77.7	63.7	95.5
179	19.1	19.0	28.6

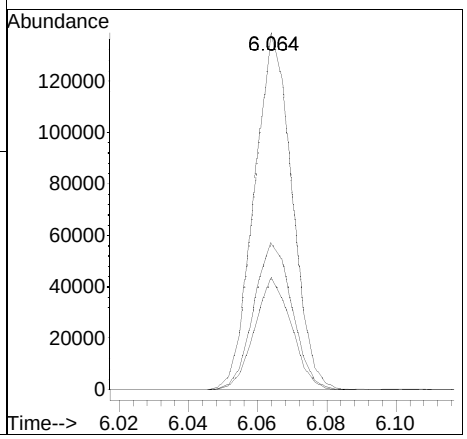


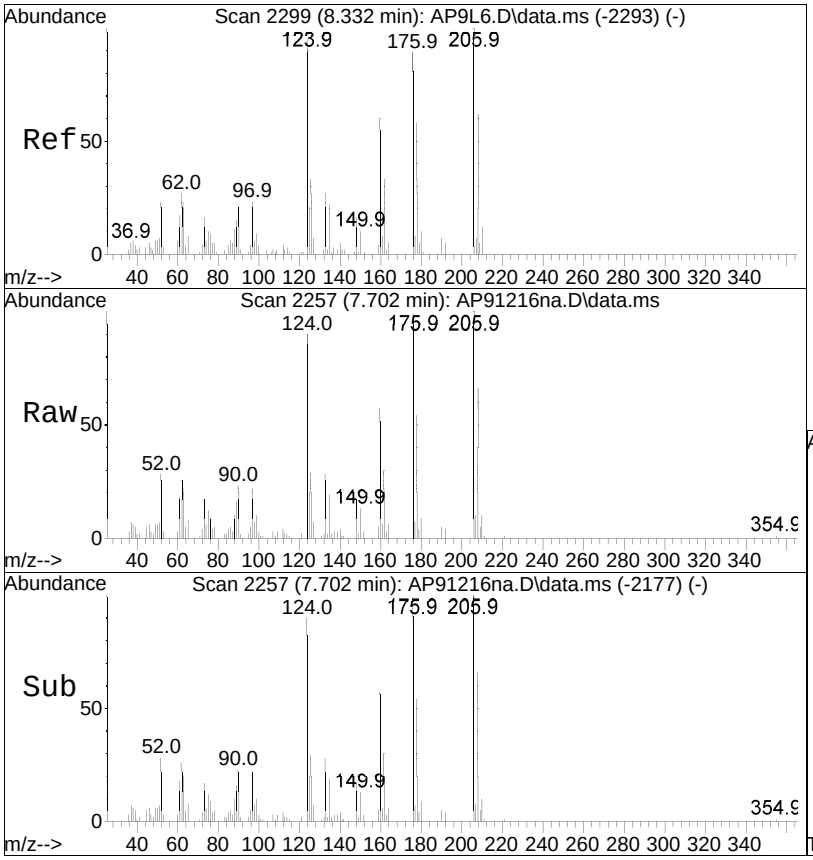


#64
Biphenyl
Concen: 5.20 ug/ml
RT: 6.064 min Scan# 1730
Delta R.T. 0.000 min
Lab File: AP91216na.D
Acq: 16 Dec 2024 11:50 pm

Tgt Ion:154 Resp: 104717

Ion	Ratio	Lower	Upper
154	100		
153	42.1	32.3	48.5
152	30.9	22.5	33.7

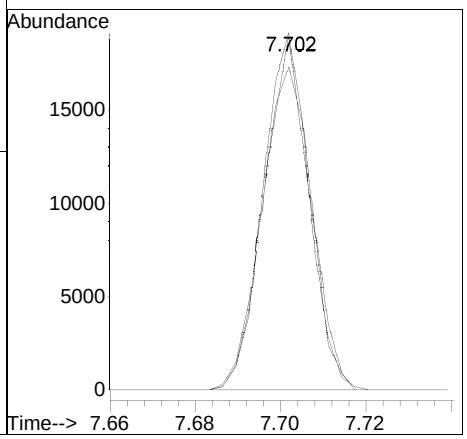


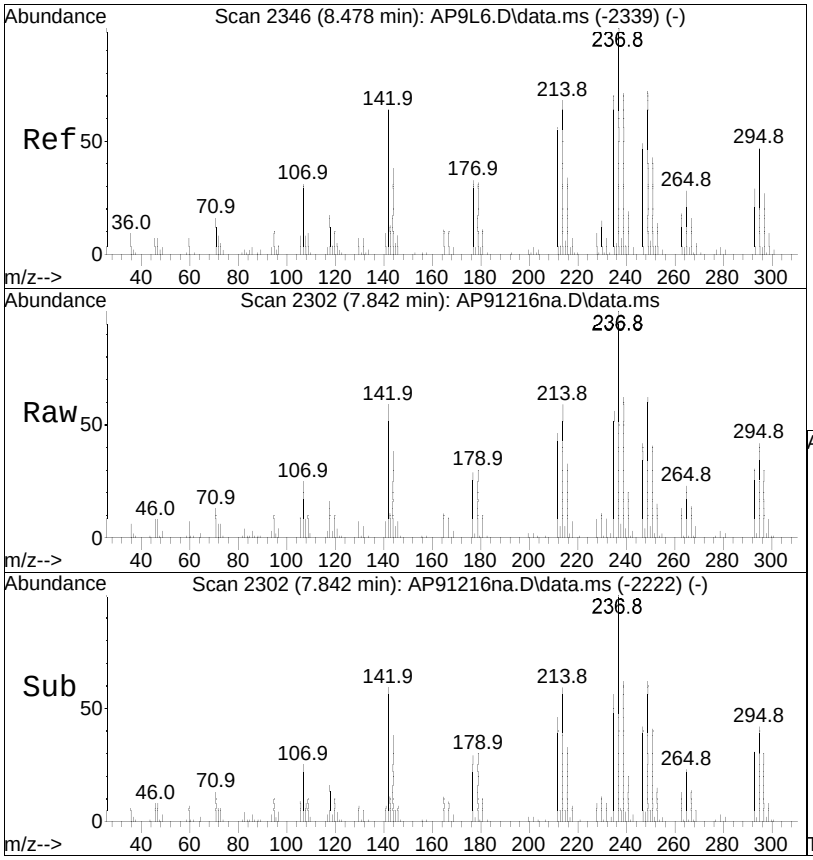


#86
Dichloran
Concen: 5.57 ug/ml
RT: 7.702 min Scan# 2257
Delta R.T. 0.000 min
Lab File: AP91216na.D
Acq: 16 Dec 2024 11:50 pm

Tgt Ion:206 Resp: 14700

Ion	Ratio	Lower	Upper
206	100		
176	94.1	104.6	157.0#
124	93.8	130.5	195.7#

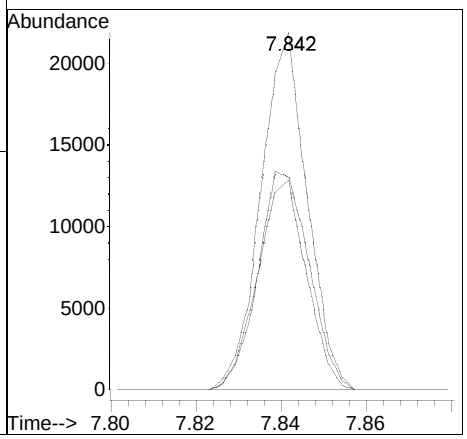


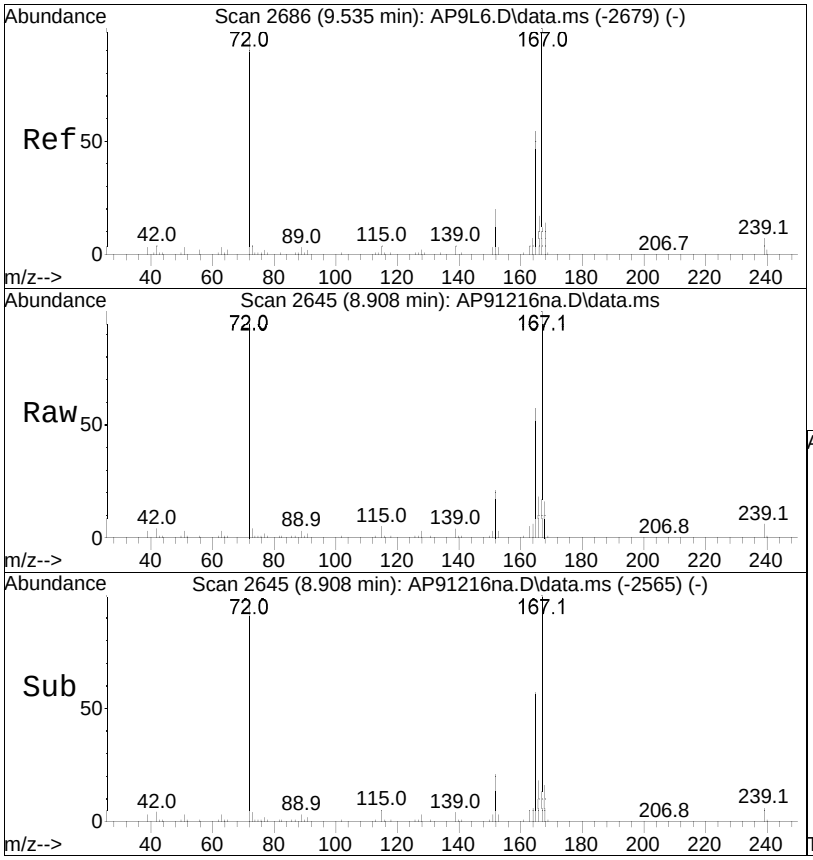


#87
Pentachloronitrobenzene
Concen: 5.67 ug/ml
RT: 7.842 min Scan# 2302
Delta R.T. 0.000 min
Lab File: AP91216na.D
Acq: 16 Dec 2024 11:50 pm

Tgt Ion:237 Resp: 16505

Ion	Ratio	Lower	Upper
237	100		
142	62.1	77.0	115.4#
214	67.6	58.2	87.4

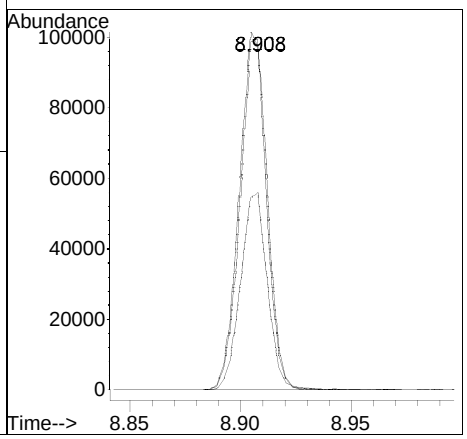




#101
Diphenamid
Concen: 5.63 ug/ml
RT: 8.908 min Scan# 2645
Delta R.T. 0.000 min
Lab File: AP91216na.D
Acq: 16 Dec 2024 11:50 pm

Tgt Ion:167 Resp: 84496

Ion	Ratio	Lower	Upper
167	100		
72	100.6	109.7	164.5#
165	55.5	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\Dakota\241216NA	RVTQMethod	: FS241105RVT_Dakota.m
Data File	: AP91216na.D	Operator	: Dakota:ljg
Date Inj'd	: 12/16/2024 11:50 pm	Instrument	: Dakota
Sample	: WG2009953-4,32,,AP9 RVT CC	Quant Date	: 12/17/2024 0:23 am

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\241216NARVT\
Data File : ADP1216na.D
Acq On : 17 Dec 2024 12:13 am
Operator : Dakota:ljg
Sample : WG2009953-5,32,,ADP RVT CCV Lot # 11153
Misc : WG2009953,,ical21680
ALS Vial : 98 Sample Multiplier: 1

Quant Time: Dec 17 10:50:59 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:57 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	95	0.00
33	T	1,4-Dioxane		0.381	0.400	-5.0	95	0.00
35	T	n-Decane		1.048	1.091	-4.1	95	0.00
88	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	100	0.00
89	T	Atrazine		0.343	0.347	-1.2	101	0.00
102	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	103	0.00
103	T	n-Octadecane		0.334	0.365	-9.3	113	0.00
104	T	Parathion	*	5.000	5.361	-7.2	124	0.00
105	T	3,3'-Dimethylbenzidine		0.728	0.683	6.2	108	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\241216NARVT\
Data File : ADP1216na.D
Acq On : 17 Dec 2024 12:13 am
Operator : Dakota:ljg
Sample : WG2009953-5,32,,ADP RVT CCV Lot # 11153
Misc : WG2009953,,ical21680
ALS Vial : 98 Sample Multiplier: 1

Quant Time: Dec 17 10:50:59 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:57 2024
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...	3.636	152	25757	4.000	ug/ml	0.00
88)	IS3_Acenaphthene-d10	6.577	164	60461	4.000	ug/ml	0.00
102)	IS3_Phenanthrene-d10	7.969	188	137555	4.000	ug/ml	0.00
	System Monitoring Compounds						
	Target Compounds						Qvalue
33)	1,4-Dioxane	0.879	88	12894M2	5.257	ug/ml	
35)	n-Decane	3.562	57	35137	5.205	ug/ml#	31
89)	Atrazine	7.817	200	26242	5.060	ug/ml#	88
103)	n-Octadecane	8.041	57	62782	5.471	ug/ml#	1
104)	Parathion	8.796	109	15447	5.361	ug/ml	90
105)	3,3'-Dimethylbenzidine	10.005	212	117471	4.691	ug/ml	99

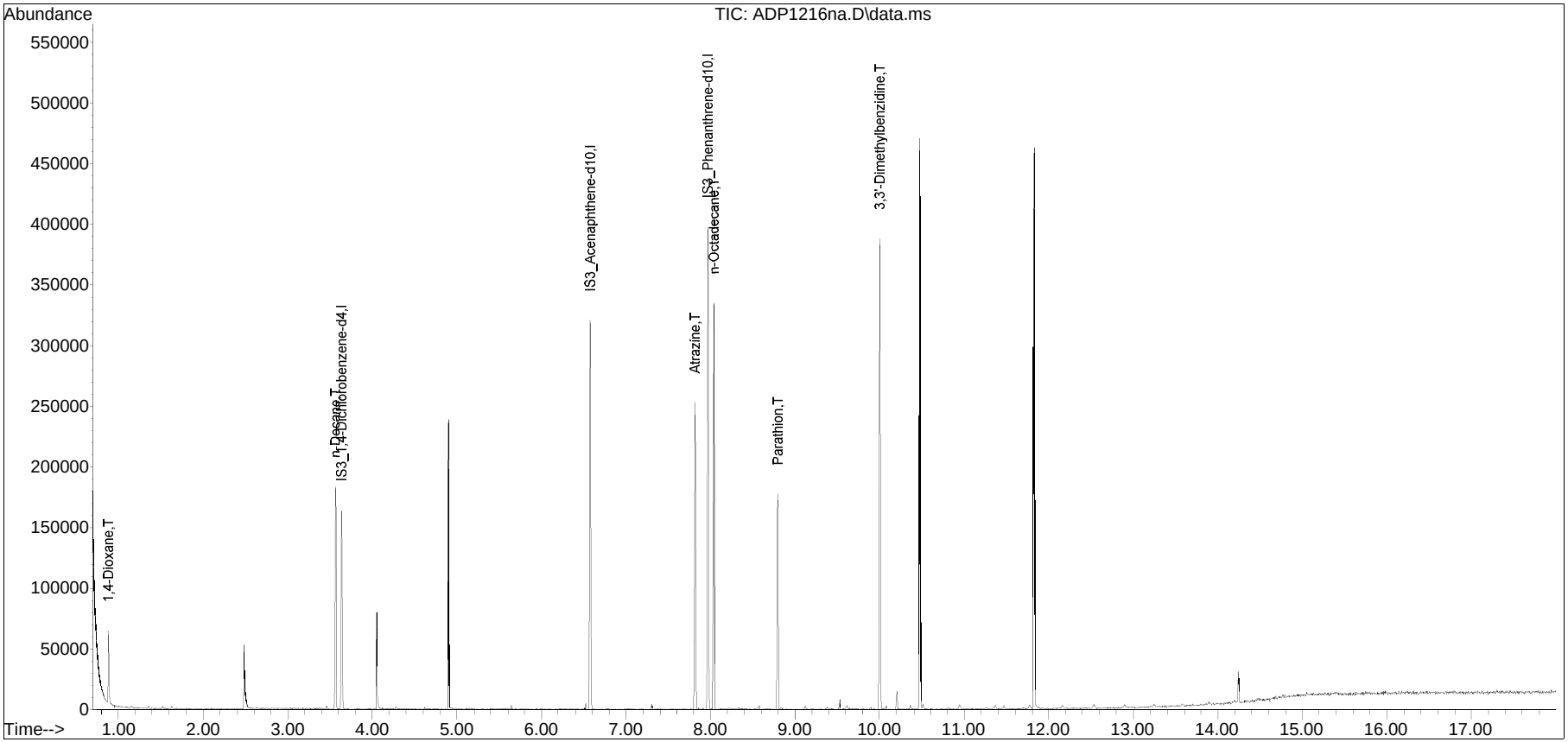
(#) = qualifier out of range (m) = manual integration (+) = signals summed

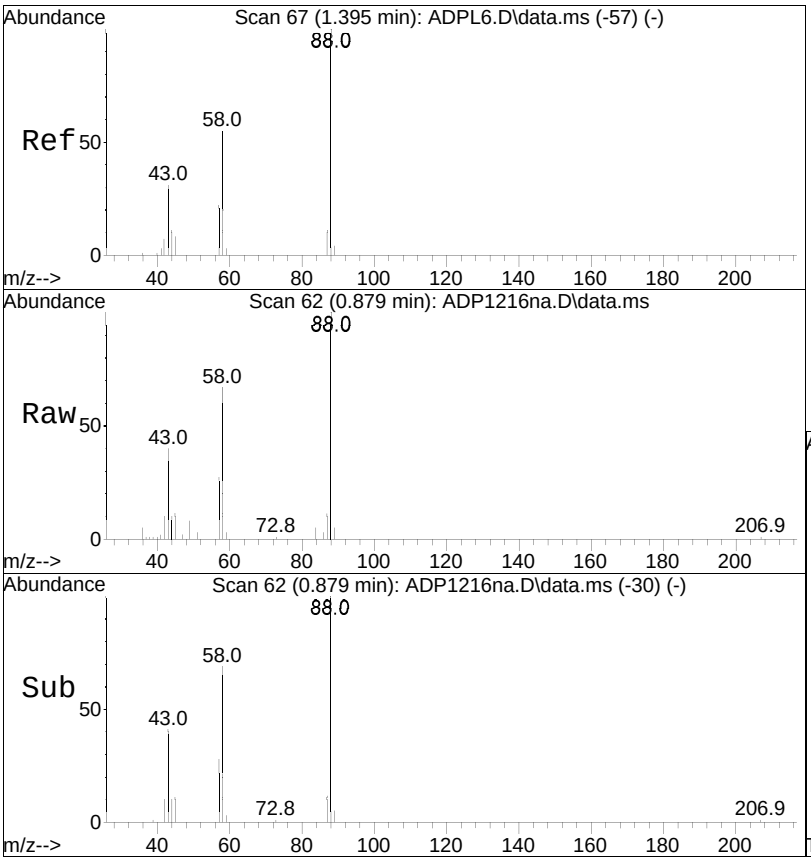
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : ADP1216na.D
Acq On : 17 Dec 2024 12:13 am
Operator : Dakota:ljg
Sample : WG2009953-5,32,,ADP RVT CCV Lot # 11153
Misc : WG2009953,,ical21680
ALS Vial : 98 Sample Multiplier: 1

Quant Time: Dec 17 10:50:59 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:57 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

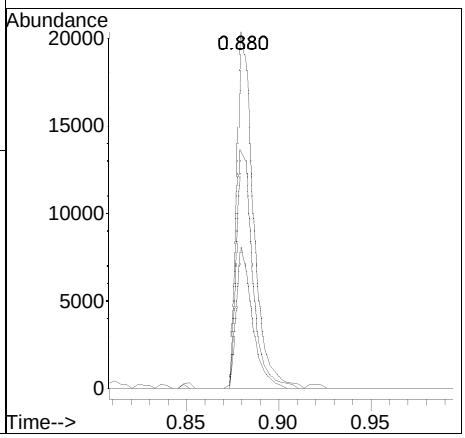


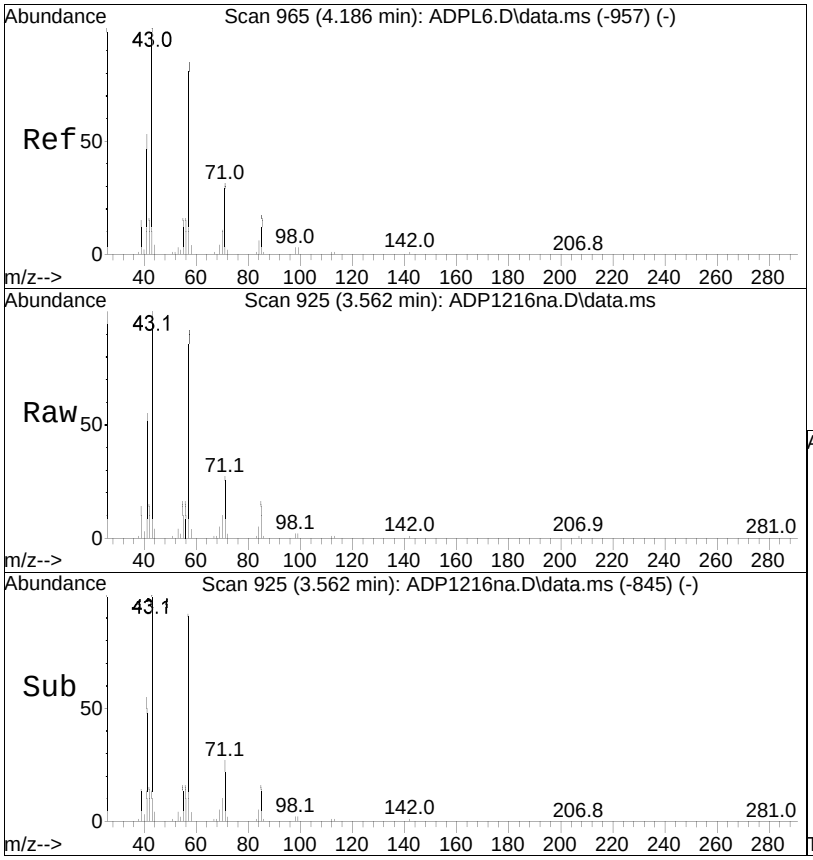


#33
1,4-Dioxane
Concen: 5.26 ug/ml M2
RT: 0.879 min Scan# 62
Delta R.T. 0.000 min
Lab File: ADP1216na.D
Acq: 17 Dec 2024 12:13 am

Tgt Ion: 88 Resp: 12894

Ion	Ratio	Lower	Upper
88	100		
58	64.3	44.8	67.2
43	37.5	22.4	33.6#

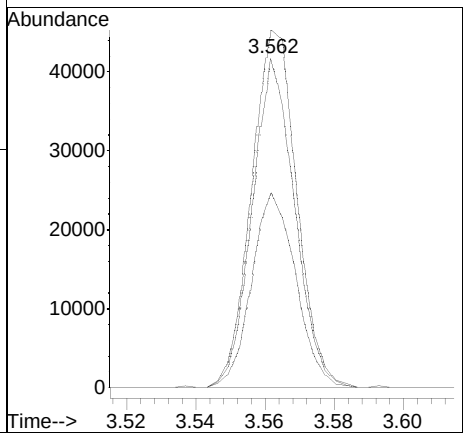


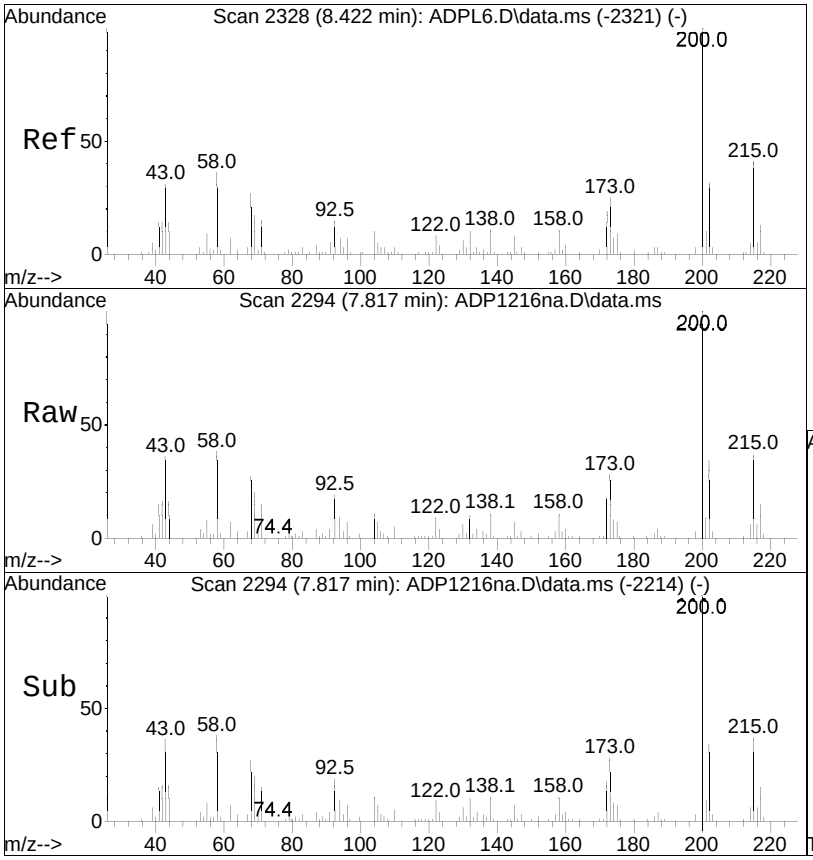


#35
n-Decane
Concen: 5.21 ug/ml
RT: 3.562 min Scan# 925
Delta R.T. 0.000 min
Lab File: ADP1216na.D
Acq: 17 Dec 2024 12:13 am

Tgt Ion: 57 Resp: 35137

Ion	Ratio	Lower	Upper
57	100		
43	116.1	0.2	0.2#
41	61.8	0.2	0.2#

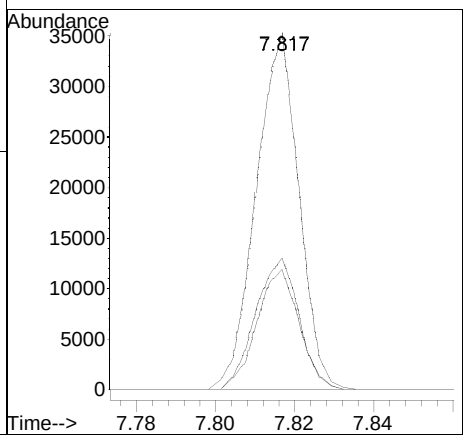


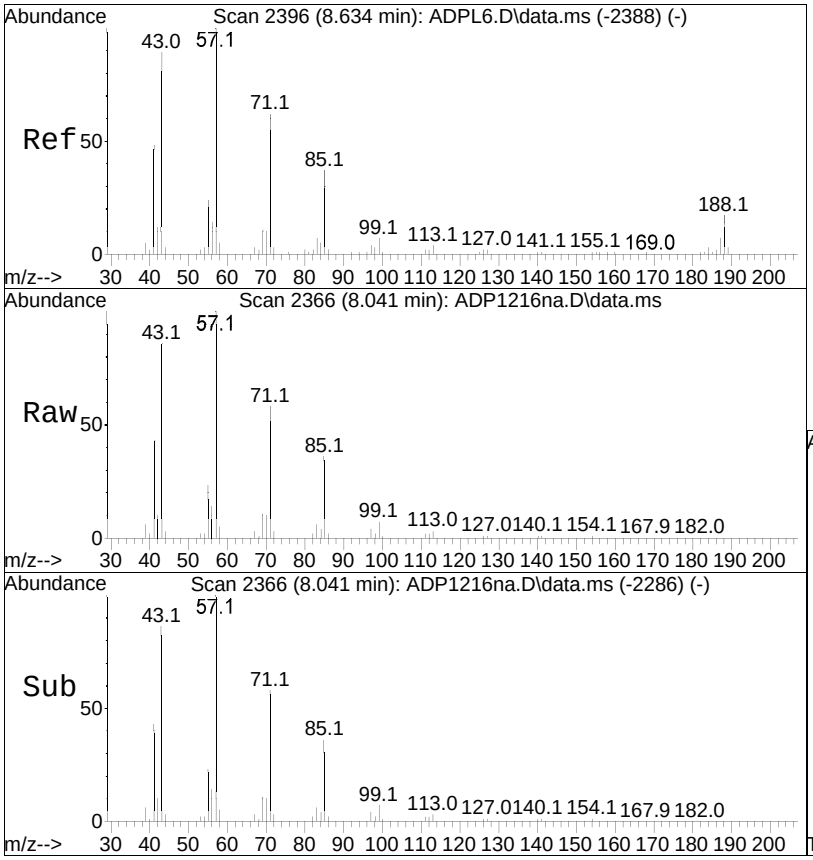


#89
Atrazine
Concen: 5.06 ug/ml
RT: 7.817 min Scan# 2294
Delta R.T. 0.000 min
Lab File: ADP1216na.D
Acq: 17 Dec 2024 12:13 am

Tgt Ion:200 Resp: 26242

Ion	Ratio	Lower	Upper
200	100		
202	33.5	25.8	38.6
215	37.7	40.2	60.4#

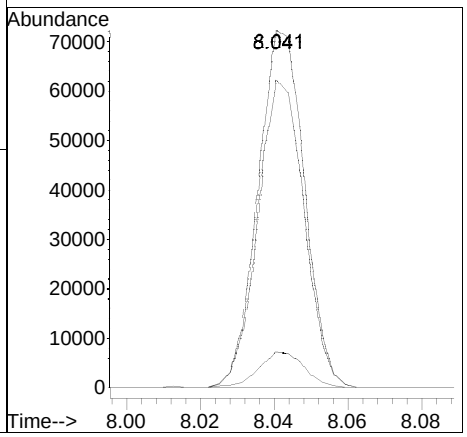


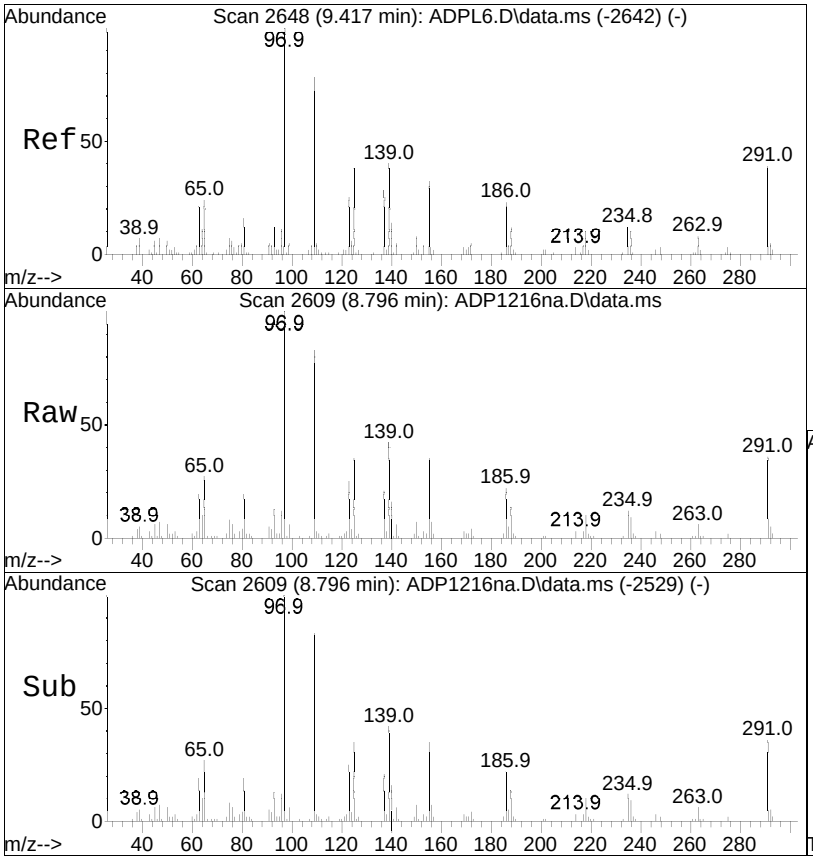


#103
n-Octadecane
Concen: 5.47 ug/ml
RT: 8.041 min Scan# 2366
Delta R.T. 0.000 min
Lab File: ADP1216na.D
Acq: 17 Dec 2024 12:13 am

Tgt Ion: 57 Resp: 62782

Ion	Ratio	Lower	Upper
57	100		
43	85.6	9.0	13.6#
70	9.8	0.2	0.2#

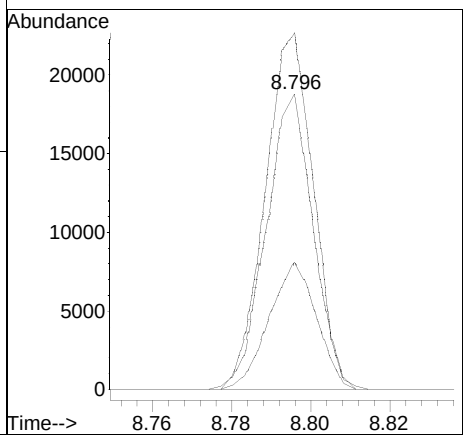


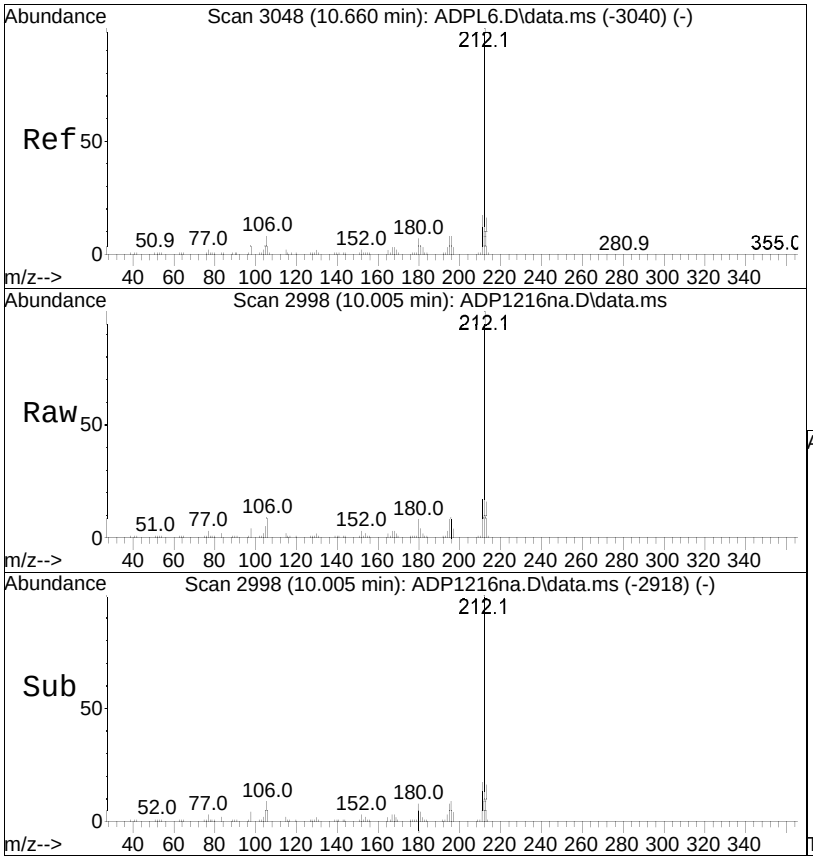


#104
Parathion
Concen: 5.36 ug/ml
RT: 8.796 min Scan# 2609
Delta R.T. 0.000 min
Lab File: ADP1216na.D
Acq: 17 Dec 2024 12:13 am

Tgt Ion:109 Resp: 15447

Ion	Ratio	Lower	Upper
109	100		
97	123.3	87.4	131.2
291	43.5	34.2	51.2

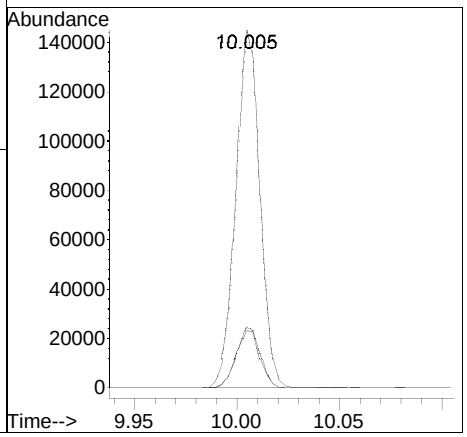




#105
3,3'-Dimethylbenzidine
Concen: 4.69 ug/ml
RT: 10.005 min Scan# 2998
Delta R.T. 0.000 min
Lab File: ADP1216na.D
Acq: 17 Dec 2024 12:13 am

Tgt Ion:212 Resp: 117471

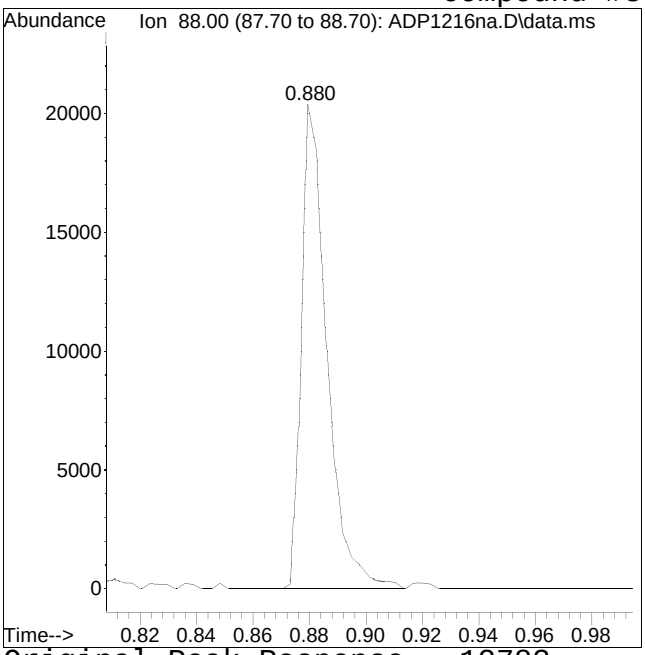
Ion	Ratio	Lower	Upper
212	100		
211	16.8	12.9	19.3
213	16.0	13.2	19.8



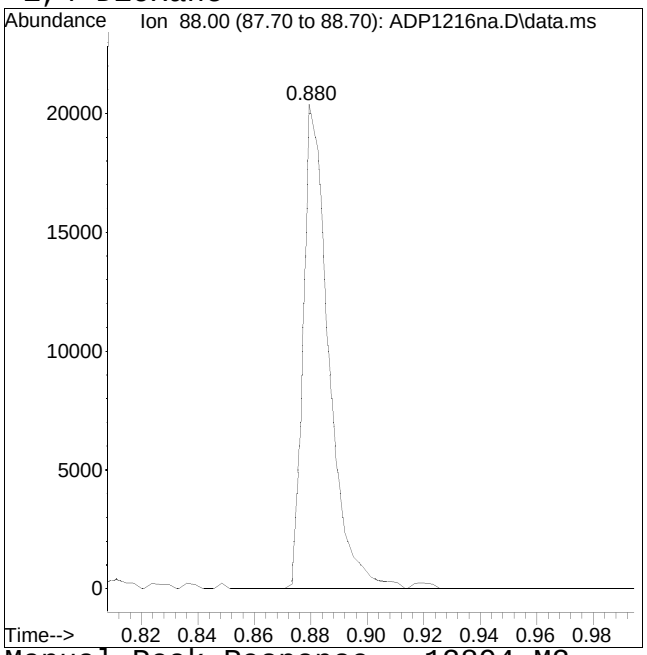
Manual Integration Report

Data Path : I:\8270\Dakota\241216NA Method : FS241105RVT_Dakota.m
Data File : ADP1216na.D Operator : Dakota:ljg
Date Inj'd : 12/17/2024 12:13 am Instrument : Dakota
Sample : WG2009953-5,32,,ADP RVT CCQuant Date : 12/17/2024 0:33 am

Compound #33: 1,4-Dioxane



Original Peak Response = 12783



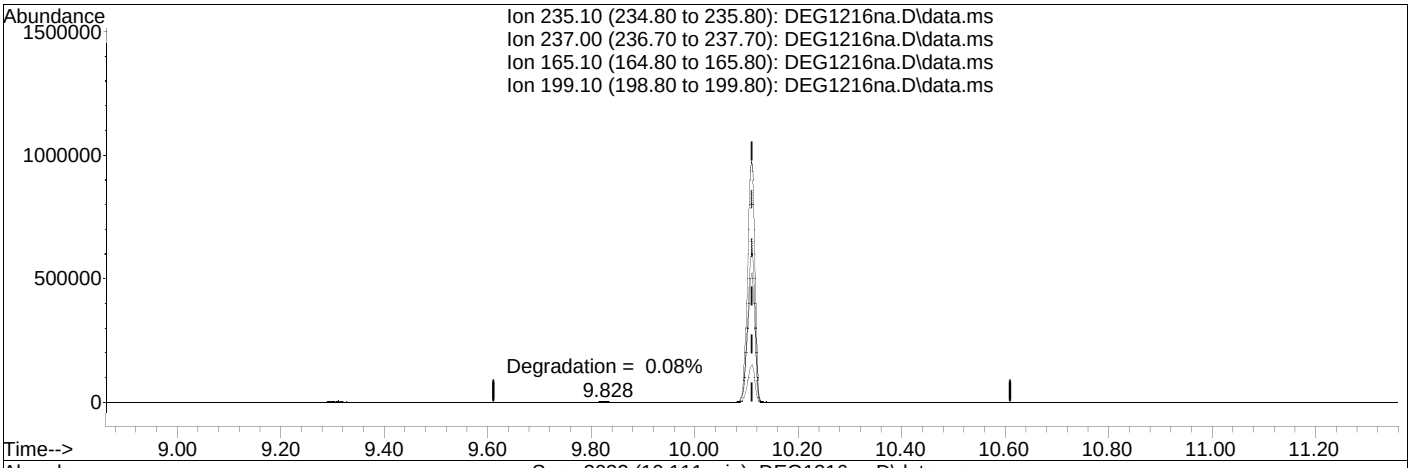
Manual Peak Response = 12894 M2

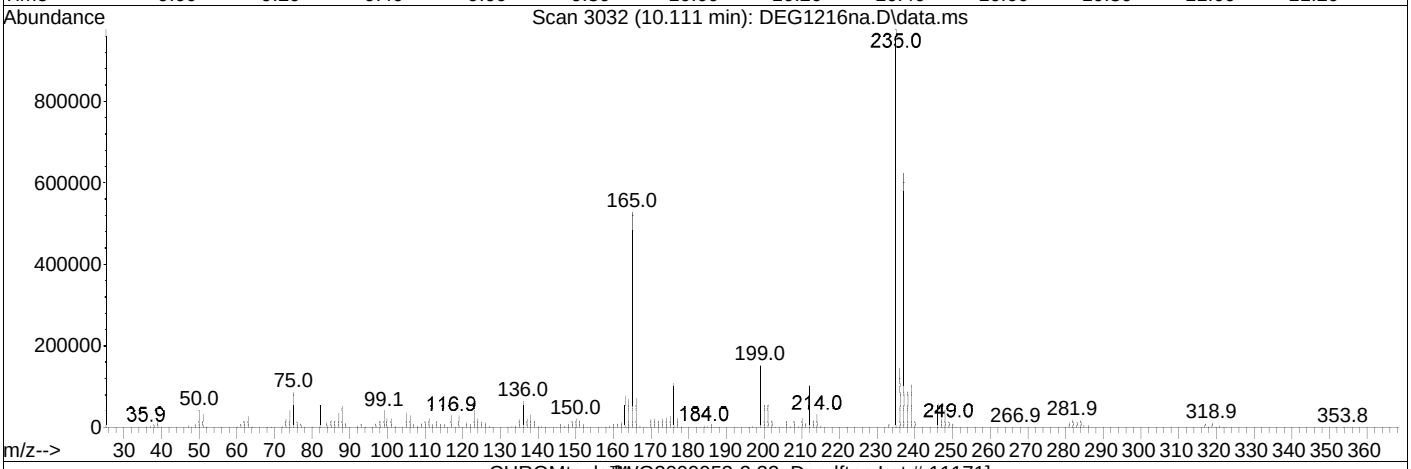
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : DEG1216na.D
Acq On : 16 Dec 2024 11:06 pm
Operator : Dakota:ljg
Sample : WG2009953-2,32,,Degdftpp Lot # 11171
Misc : WG2009953,,ical21680
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Dec 16 23:24:58 2024
Quant Method : I:\8270\Dakota\241216NARVT\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 23:26:45 2024
Response via : Initial Calibration





CHROMtools [WG2009953-2,32,,Degdftpp Lot # 11171]

(6) DDT (T)

10.111min (-0.000) 149.82

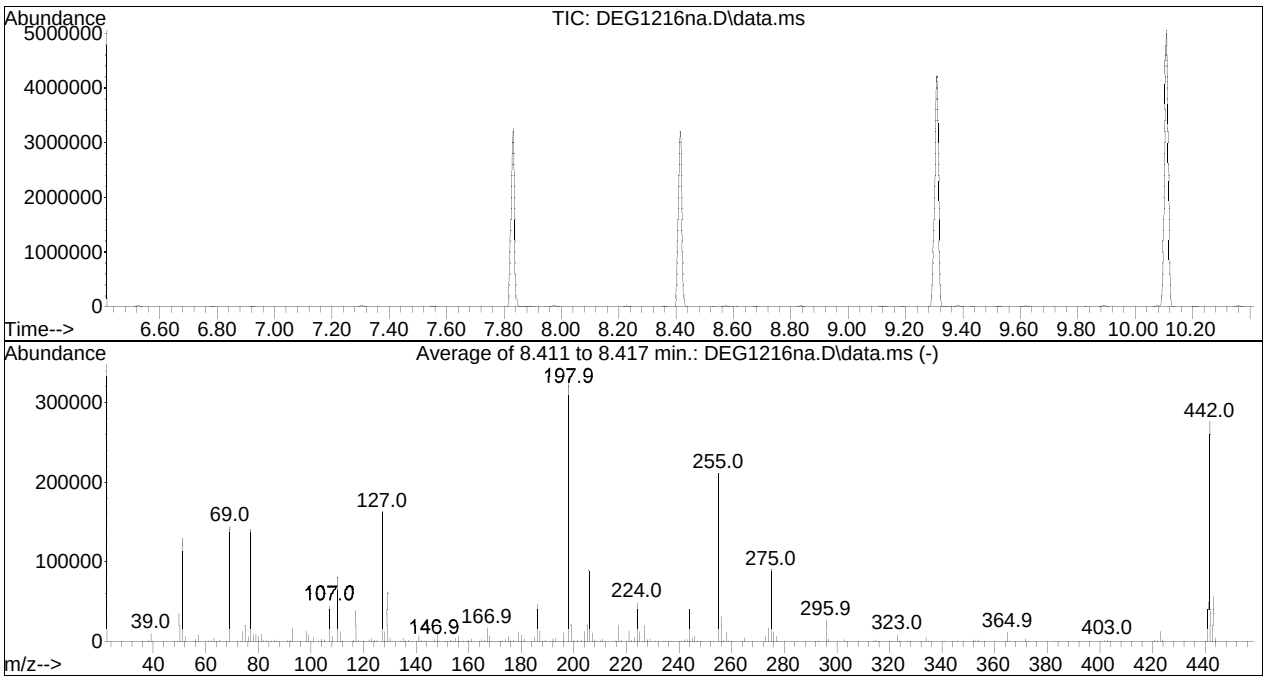
response 913285

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.90	63.29
165.10	48.70	51.84
199.10	15.80	15.07

Data Path : I:\8270\Dakota\241216NARVT\
Data File : DEG1216na.D
Acq On : 16 Dec 2024 11:06 pm
Operator : Dakota: ASK
Sample : WG2009953-1,32,,Degdftpp Lot # 11171
Misc : WG2009953,,ical21680
ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Dec 17 00:22:53 2024



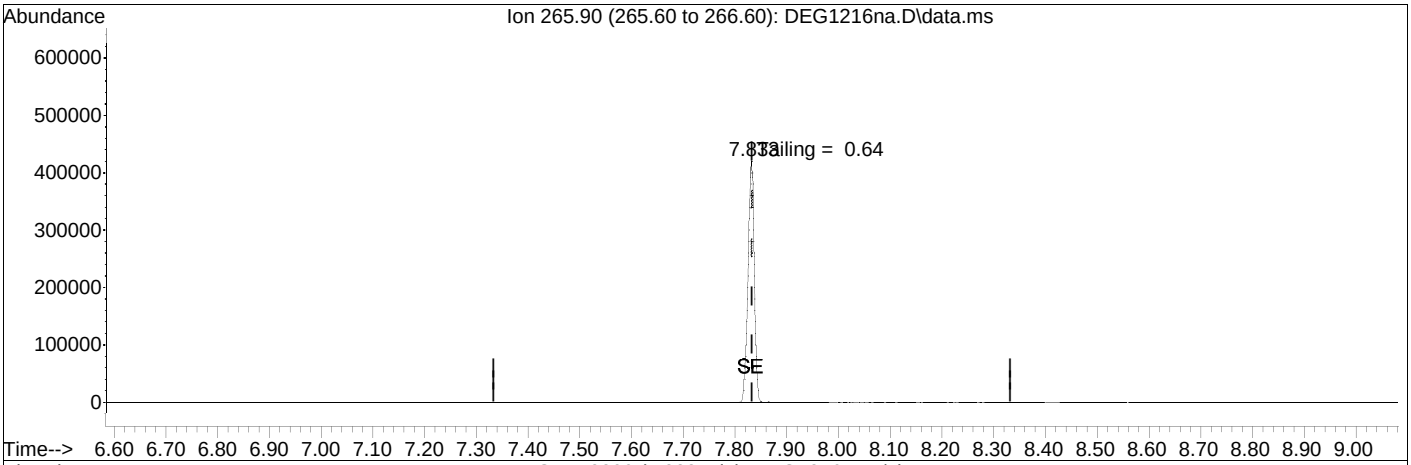
Spectrum Information: Average of 8.411 to 8.417 min.

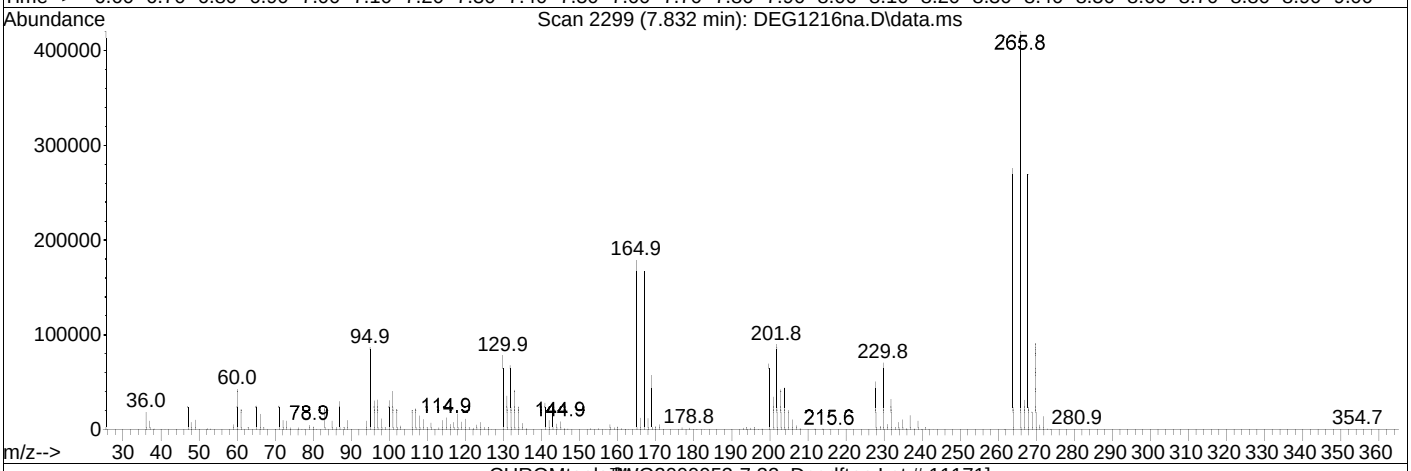
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	39.0	129352	PASS
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	144576	PASS
70	69	0.00	2	0.4	596	PASS
127	198	10	80	49.2	162901	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	331349	PASS
199	198	5	9	6.7	22267	PASS
275	198	10	60	27.2	90160	PASS
365	198	1	100	3.5	11641	PASS
441	442	0.01	24	18.1	50011	PASS
442	198	50	100	83.3	276075	PASS
443	442	15	24	20.3	55979	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : DEG1216na.D
Acq On : 16 Dec 2024 11:06 pm
Operator : Dakota:ljg
Sample : WG2009953-7,32,,Degdftpp Lot # 11171
Misc : WG2009953,,ical21680
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Dec 16 23:24:58 2024
Quant Method : I:\8270\Dakota\241216NARVT\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 23:26:45 2024
Response via : Initial Calibration





CHROMtools [WG2009953-7,32,,Degdftpp Lot # 11171]

(1) Pentachlorophenol (T)

7.832min (-0.001) 160.88

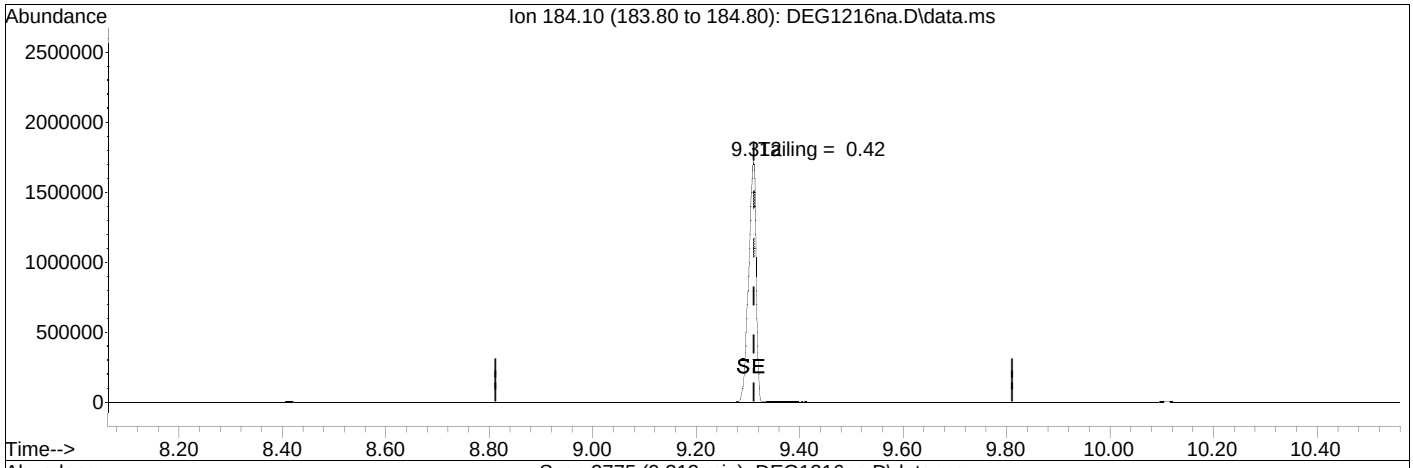
response 337905

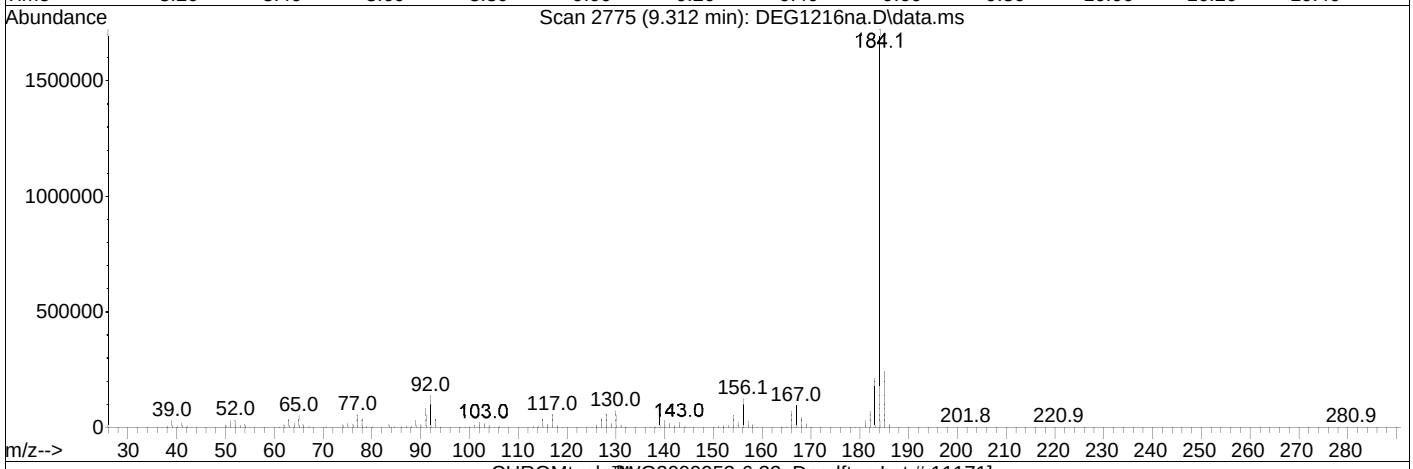
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : DEG1216na.D
Acq On : 16 Dec 2024 11:06 pm
Operator : Dakota:ljg
Sample : WG2009953-6,32,,Degdftpp Lot # 11171
Misc : WG2009953,,ical21680
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Dec 16 23:24:58 2024
Quant Method : I:\8270\Dakota\241216NARVT\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 23:26:45 2024
Response via : Initial Calibration





CHROMtools [WG2009953-6,32,,Degdftpp Lot # 11171]

(3) Benzidine (T)

9.312min (-0.000) 161.78

response 1646920

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

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\241216NRVT\
Data File : 009399-1.D
Acq On : 17 Dec 2024 1:48 am
Operator : SV107:ljg
Sample : WG2009399-1,32,,ASK
Misc : WG2008657,WG2009399,ical21360
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 17 08:01:00 2024
Quant Method : I:\8270\SV107\241216NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:29:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\241216NRVT\ABN1216n.D
: 2 - I:\8270\SV107\241216NRVT\ADP1216n.D
: 3 - I:\8270\SV107\241216NRVT\AP91216n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.425	152	11363	4.000	ug/ml		0.00
Standard Area 1 = 13003			Recovery = 87.39%				
27) IS2_1,4-Dichlorobenzen...	6.425	152	11363	4.000	ug/ml		0.00
Standard Area 3 = 17952			Recovery = 63.30%				
32) IS3_1,4-Dichlorobenzen...	6.425	152	11363	4.000	ug/ml		0.00
Standard Area 2 = 20785			Recovery = 54.67%				
35) IS1_Naphthalene-d8	7.848	136	40470	4.000	ug/ml		0.00
Standard Area 1 = 46064			Recovery = 87.86%				
55) IS2_Naphthalene-d8	7.848	136	40470	4.000	ug/ml		0.00
Standard Area 3 = 60982			Recovery = 66.36%				
63) IS1_Acenaphthene-d10	9.607	164	24971	4.000	ug/ml		0.00
Standard Area 1 = 29301			Recovery = 85.22%				
83) IS2_Acenaphthene-d10	9.607	164	24971	4.000	ug/ml		0.00
Standard Area 3 = 35583			Recovery = 70.18%				
86) IS3_Acenaphthene-d10	9.607	164	24971	4.000	ug/ml		0.00
Standard Area 2 = 40587			Recovery = 61.52%				
88) IS1_Phenanthrene-d10	11.036	188	51054	4.000	ug/ml		0.00
Standard Area 1 = 62102			Recovery = 82.21%				
100) IS3_Phenanthrene-d10	11.036	188	51054	4.000	ug/ml	#	0.00
Standard Area 2 = 86632			Recovery = 58.93%				
104) IS1_Chrysene-d12	13.666	240	45672	4.000	ug/ml	#	0.00
Standard Area 1 = 57573			Recovery = 79.33%				
113) IS1_Perylene-d12	15.130	264	45755	4.000	ug/ml		0.00
Standard Area 1 = 60333			Recovery = 75.84%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.549	112	2832	0.923	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 46.15%				
7) Phenol-d6	6.060	99	2420	0.603	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 30.15%				
19) Nitrobenzene-d5	7.084	82	2683	0.691	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 69.10%				
46) 2-Fluorobiphenyl	8.966	172	6257	0.687	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 68.70%				
79) 2,4,6-Tribromophenol	10.372	330	1133	0.969	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 48.45%				

Data Path : I:\8270\SV107\241216NRVT\
Data File : 009399-1.D
Acq On : 17 Dec 2024 1:48 am
Operator : SV107:ljg
Sample : WG2009399-1,32,,ASK
Misc : WG2008657,WG2009399,ical21360
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 17 08:01:00 2024
Quant Method : I:\8270\SV107\241216NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:29:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\241216NRVT\ABN1216n.D
: 2 - I:\8270\SV107\241216NRVT\ADP1216n.D
: 3 - I:\8270\SV107\241216NRVT\AP91216n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	12.613	244	8518	0.706	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 70.60%

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.
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.
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.
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.

Data Path : I:\8270\SV107\241216NRVT\
Data File : 009399-1.D
Acq On : 17 Dec 2024 1:48 am
Operator : SV107:ljg
Sample : WG2009399-1,32,,ASK
Misc : WG2008657,WG2009399,ical21360
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 17 08:01:00 2024
Quant Method : I:\8270\SV107\241216NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:29:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\241216NRVT\ABN1216n.D
: 2 - I:\8270\SV107\241216NRVT\ADP1216n.D
: 3 - I:\8270\SV107\241216NRVT\AP91216n.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	11.660	149	2051	0.147	ug/ml#	79
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.		
109) Di-n-octylphthalate	0.000		0	N.D.	d	

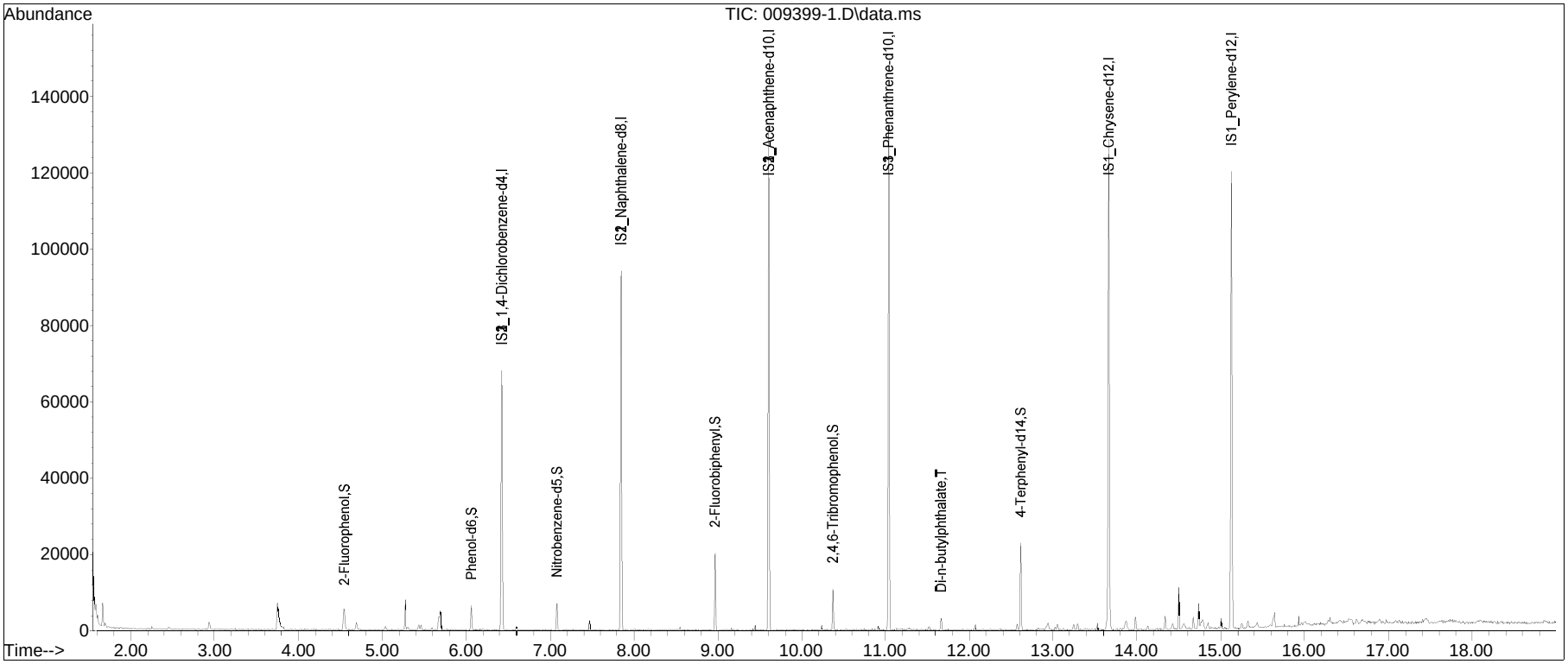
(#) = qualifier out of range (m) = manual integration (+) = signals summed

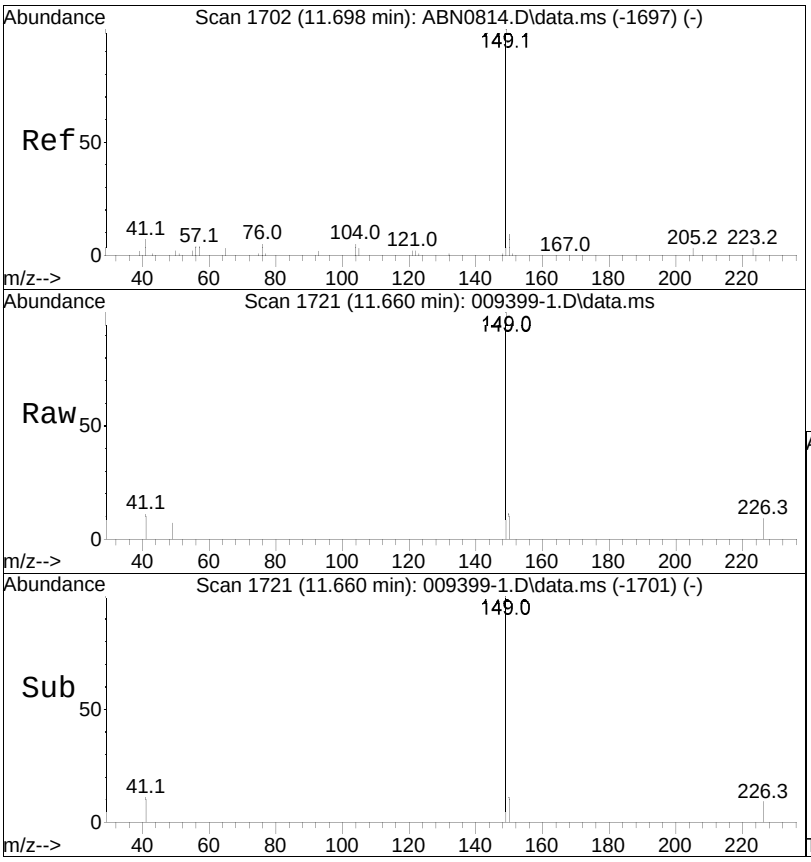
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\241216NRVT\
Data File : 009399-1.D
Acq On : 17 Dec 2024 1:48 am
Operator : SV107:ljg
Sample : WG2009399-1,32,,ASK
Misc : WG2008657,WG2009399,ical21360
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 17 08:01:00 2024
Quant Method : I:\8270\SV107\241216NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:29:49 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MANRVT\AP91216n.D•

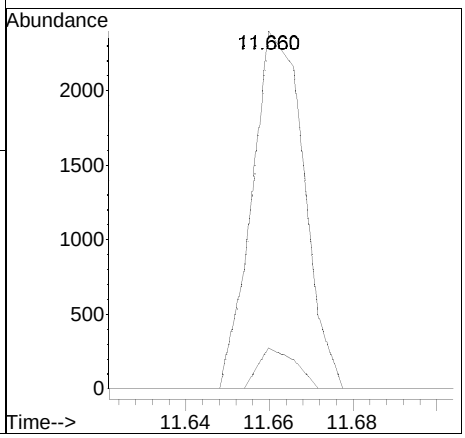




#92
Di-n-butylphthalate
Concen: 0.15 ug/ml
RT: 11.660 min Scan# 1721
Delta R.T. -0.006 min
Lab File: 009399-1.D
Acq: 17 Dec 2024 1:48 am

Tgt Ion:149 Resp: 2051

Ion	Ratio	Lower	Upper
149	100		
150	0.0	7.0	10.6#
104	0.0	4.5	6.7#



Manual Integration Report

Data Path	: I:\8270\SV107\241216NRVT\	QMethod	: FS240730SV107RVT.m
Data File	: 009399-1.D	Operator	: SV107:ljg
Date Inj'd	: 12/17/2024 1:48 am	Instrument	: SV107
Sample	: WG2009399-1,32,,ASK	Quant Date	: 12/17/2024 2:07 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\241216NRVT\
Data File : 009399-2.D
Acq On : 17 Dec 2024 2:13 am
Operator : SV107:ljg
Sample : WG2009399-2,32,,ASK
Misc : WG2008657,WG2009399,ical21360
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 17 08:02:26 2024
Quant Method : I:\8270\SV107\241216NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:29:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\241216NRVT\ABN1216n.D
: 2 - I:\8270\SV107\241216NRVT\ADP1216n.D
: 3 - I:\8270\SV107\241216NRVT\AP91216n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.425	152	12581	4.000	ug/ml		0.00
Standard Area 1 = 13003			Recovery = 96.75%				
27) IS2_1,4-Dichlorobenzen...	6.425	152	12581	4.000	ug/ml		0.00
Standard Area 3 = 17952			Recovery = 70.08%				
32) IS3_1,4-Dichlorobenzen...	6.425	152	12581	4.000	ug/ml		0.00
Standard Area 2 = 20785			Recovery = 60.53%				
35) IS1_Naphthalene-d8	7.848	136	46006	4.000	ug/ml		0.00
Standard Area 1 = 46064			Recovery = 99.87%				
55) IS2_Naphthalene-d8	7.848	136	46006	4.000	ug/ml		0.00
Standard Area 3 = 60982			Recovery = 75.44%				
63) IS1_Acenaphthene-d10	9.607	164	28595	4.000	ug/ml		0.00
Standard Area 1 = 29301			Recovery = 97.59%				
83) IS2_Acenaphthene-d10	9.607	164	28595	4.000	ug/ml		0.00
Standard Area 3 = 35583			Recovery = 80.36%				
86) IS3_Acenaphthene-d10	9.607	164	28595	4.000	ug/ml		0.00
Standard Area 2 = 40587			Recovery = 70.45%				
88) IS1_Phenanthrene-d10	11.036	188	59939	4.000	ug/ml		0.00
Standard Area 1 = 62102			Recovery = 96.52%				
100) IS3_Phenanthrene-d10	11.036	188	59939	4.000	ug/ml	#	0.00
Standard Area 2 = 86632			Recovery = 69.19%				
104) IS1_Chrysene-d12	13.666	240	57425	4.000	ug/ml	#	0.00
Standard Area 1 = 57573			Recovery = 99.74%				
113) IS1_Perylene-d12	15.124	264	55305	4.000	ug/ml		0.00
Standard Area 1 = 60333			Recovery = 91.67%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.548	112	3154	0.929	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 46.45%				
7) Phenol-d6	6.060	99	2704	0.608	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 30.40%				
19) Nitrobenzene-d5	7.078	82	2510	0.584	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 58.40%				
46) 2-Fluorobiphenyl	8.966	172	6149	0.594	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 59.40%				
79) 2,4,6-Tribromophenol	10.372	330	1554	1.161	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 58.05%				

Data Path : I:\8270\SV107\241216NRVT\
Data File : 009399-2.D
Acq On : 17 Dec 2024 2:13 am
Operator : SV107:ljg
Sample : WG2009399-2,32,,ASK
Misc : WG2008657,WG2009399,ical21360
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 17 08:02:26 2024
Quant Method : I:\8270\SV107\241216NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:29:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\241216NRVT\ABN1216n.D
: 2 - I:\8270\SV107\241216NRVT\ADP1216n.D
: 3 - I:\8270\SV107\241216NRVT\AP91216n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	12.613	244	8898	0.628	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 62.80%			
Target Compounds						Qvalue
6) 2-Chlorophenol	6.166	128	4462	1.096	ug/ml	95
8) Phenol	6.078	94	3160	0.641	ug/ml	95
14) Bis(2-chloroisopropyl)...	6.807	45	6757	1.328	ug/ml#	54
15) 2-Methylphenol	6.807	108	3580	1.010	ug/ml	97
17) n-Nitrosodi-n-propylamine	6.954	70	3636	1.341	ug/ml#	83
18) 3-Methylphenol/4-Methy...	6.990	108	3961	1.015	ug/ml	98
20) Nitrobenzene	7.101	77	5364	1.300	ug/ml#	93
21) Isophorone	7.378	82	9970	1.352	ug/ml	96
22) 2-Nitrophenol	7.460	139	2342	1.117	ug/ml#	93
23) 2,4-Dimethylphenol	7.560	107	2043	0.601	ug/ml	94
24) Bis(2-chloroethoxy)met...	7.648	93	6230	1.250	ug/ml#	96
25) 2,4-Dichlorophenol	7.725	162	4152	1.118	ug/ml	94
28) Benzaldehyde	5.854	105	4027	1.119	ug/ml	96
29) Acetophenone	6.925	105	7109M6	1.113	ug/ml	
38) 4-Chloroaniline	7.954	65	1455	1.001	ug/ml#	73
40) p-Chloro-m-cresol	8.478	107	4767	1.465	ug/ml	91
43) Hexachlorocyclopentadiene	8.760	237	2058	0.845	ug/ml#	92
44) 2,4,6-Trichlorophenol	8.884	196	3662	1.360	ug/ml	97
45) 2,4,5-Trichlorophenol	8.913	196	4048	1.415	ug/ml	98
48) 2-Nitroaniline	9.178	138	3356	1.430	ug/ml	88
51) Dimethyl phthalate	9.378	163	14161	1.427	ug/ml#	98
53) 2,6-Dinitrotoluene	9.425	165	2729	1.405	ug/ml#	84
60) Caprolactam	8.278	55	777	0.947	ug/ml#	31
61) 1,2,4,5-Tetrachloroben...	8.760	216	5969	1.168	ug/ml	98
62) Biphenyl	9.060	154	13431	1.127	ug/ml	98
64) 3-Nitroaniline	9.578	138	2696	1.178	ug/ml#	97
66) 2,4-Dinitrophenol	9.678	184	567	1.300	ug/ml#	25
67) Dibenzofuran	9.807	168	15479	1.152	ug/ml	100
68) 2,4-Dinitrotoluene	9.813	165	3833	1.313	ug/ml	97
69) 4-Nitrophenol	9.772	65	1604	0.887	ug/ml#	88
72) Diethyl phthalate	10.072	149	13653	1.439	ug/ml	97
74) 4-Chlorophenyl phenyl ...	10.160	204	6495	1.274	ug/ml	91
75) 4-Nitroaniline	10.166	138	3004	1.312	ug/ml#	79

Data Path : I:\8270\SV107\241216NRVT\
Data File : 009399-2.D
Acq On : 17 Dec 2024 2:13 am
Operator : SV107:ljg
Sample : WG2009399-2,32,,ASK
Misc : WG2008657,WG2009399,ical21360
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 17 08:02:26 2024
Quant Method : I:\8270\SV107\241216NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:29:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\241216NRVT\ABN1216n.D
: 2 - I:\8270\SV107\241216NRVT\ADP1216n.D
: 3 - I:\8270\SV107\241216NRVT\AP91216n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	4,6-Dinitro-o-cresol	10.201	198	2277	1.643	ug/ml#	60
77)	NDPA/DPA	10.272	169	11142	1.337	ug/ml	99
80)	4-Bromophenyl phenyl e...	10.625	248	3964	1.441	ug/ml#	88
87)	Atrazine	10.807	200	4307	1.915	ug/ml	93
91)	Carbazole	11.277	167	18128	1.218	ug/ml	97
92)	Di-n-butylphthalate	11.660	149	22636	1.381	ug/ml	99
97)	Butyl benzyl phthalate	13.136	149	9927	1.531	ug/ml	93
106)	3,3'-Dichlorobenzidine	13.654	252	8292	1.242	ug/ml#	93
108)	Bis(2-ethylhexyl)phtha...	13.771	149	15370	1.481	ug/ml#	93
109)	Di-n-octylphthalate	14.448	149	24692	1.594	ug/ml#	72

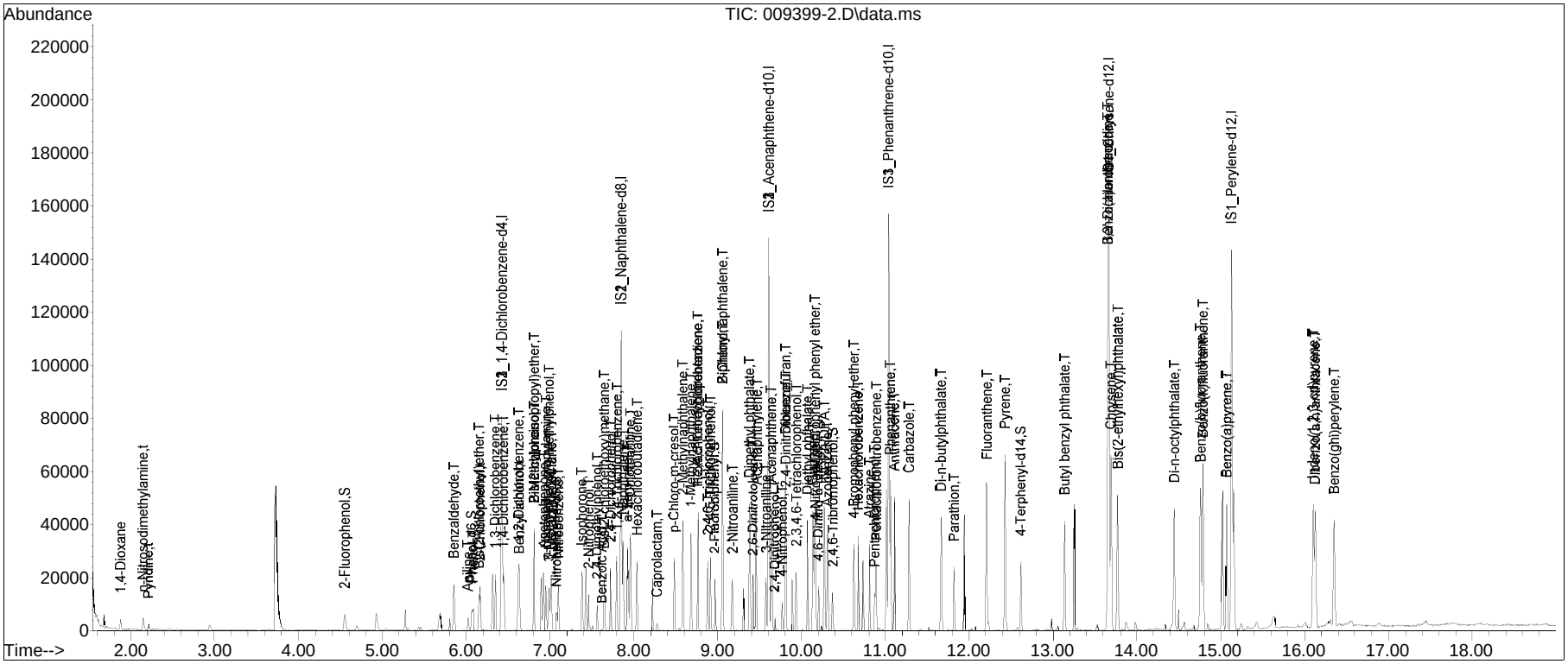
(#) = qualifier out of range (m) = manual integration (+) = signals summed

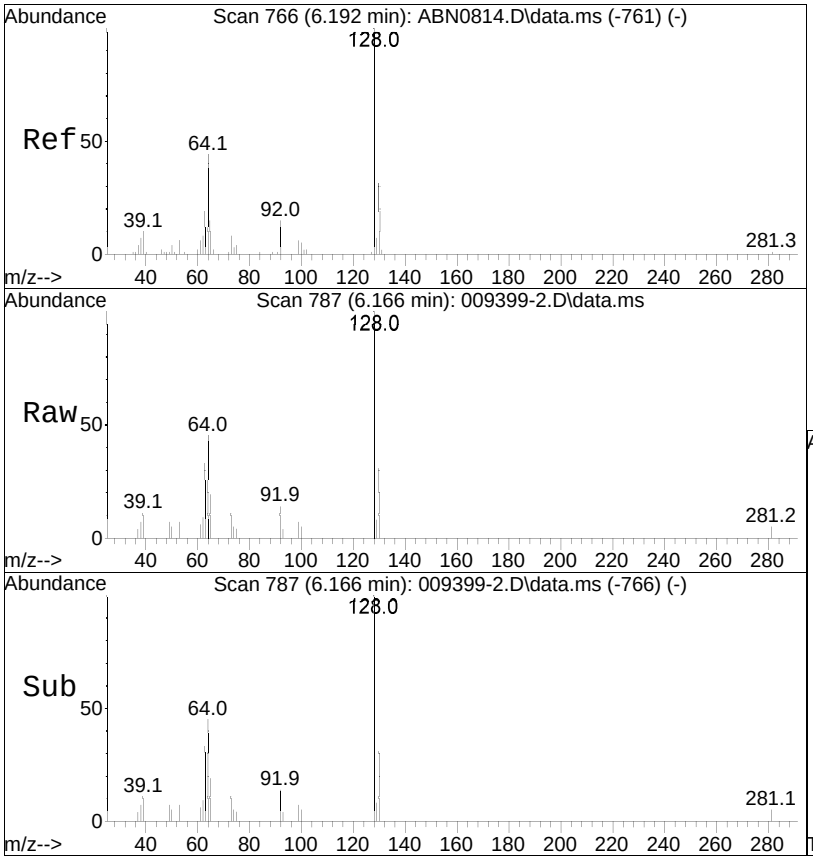
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\241216NRVT\
Data File : 009399-2.D
Acq On : 17 Dec 2024 2:13 am
Operator : SV107:ljg
Sample : WG2009399-2,32,,ASK
Misc : WG2008657,WG2009399,ical21360
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 17 08:02:26 2024
Quant Method : I:\8270\SV107\241216NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:29:49 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MANRVT\AP91216n.D•

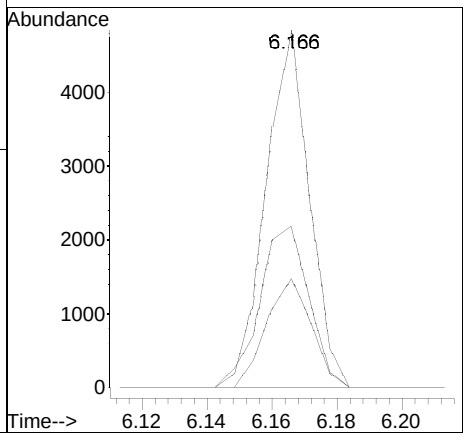


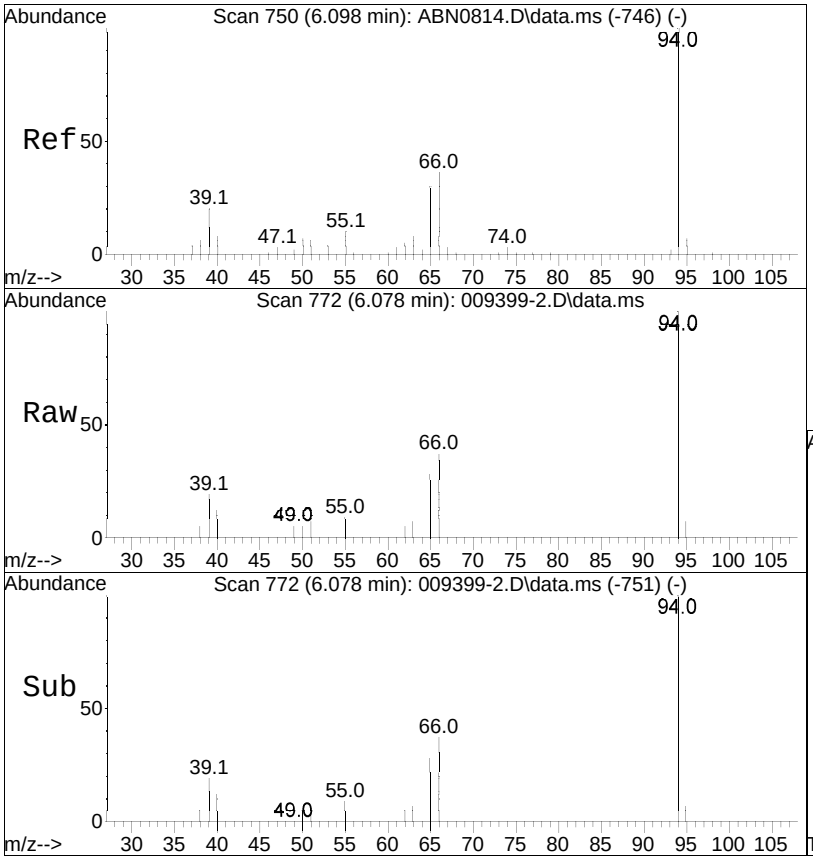


#6
2-Chlorophenol
Concen: 1.10 ug/ml
RT: 6.166 min Scan# 787
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:128 Resp: 4462

Ion	Ratio	Lower	Upper
128	100		
64	51.3	45.1	67.7
130	31.7	26.2	39.4

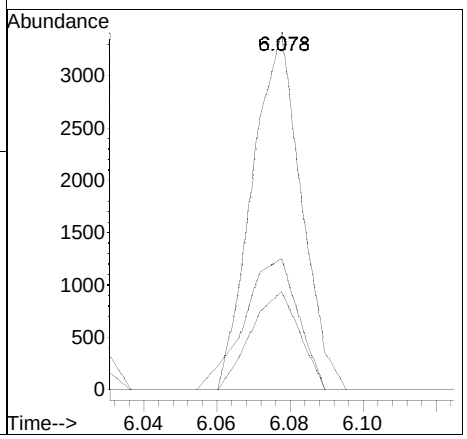


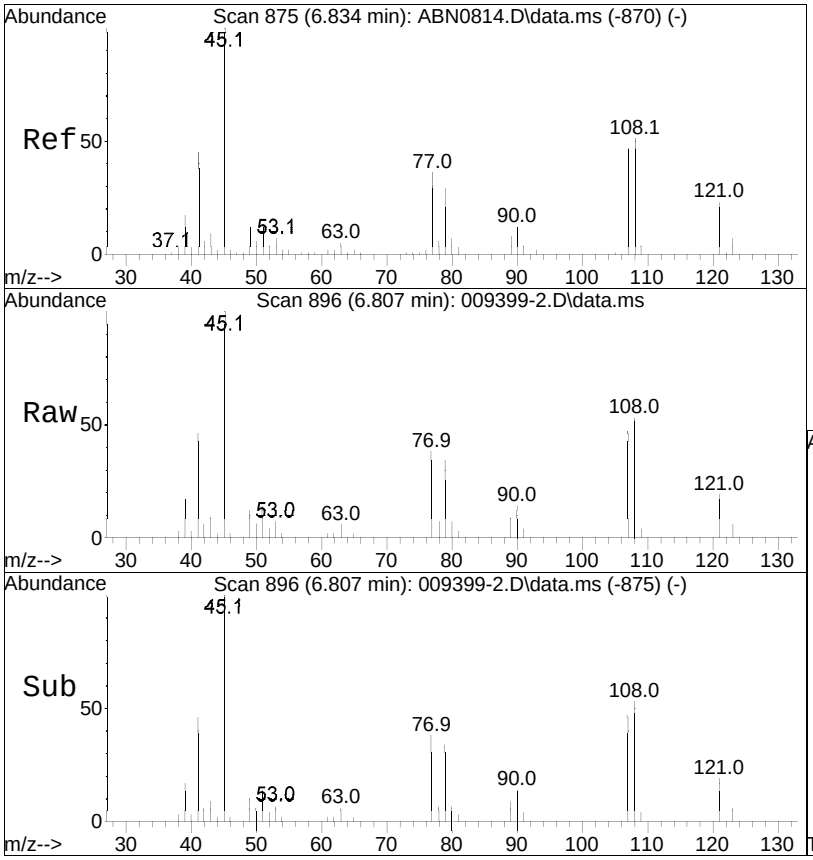


#8
Phenol
Concen: 0.64 ug/ml
RT: 6.078 min Scan# 772
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion: 94 Resp: 3160

Ion	Ratio	Lower	Upper
94	100		
65	27.5	26.0	39.0
66	40.8	33.8	50.8

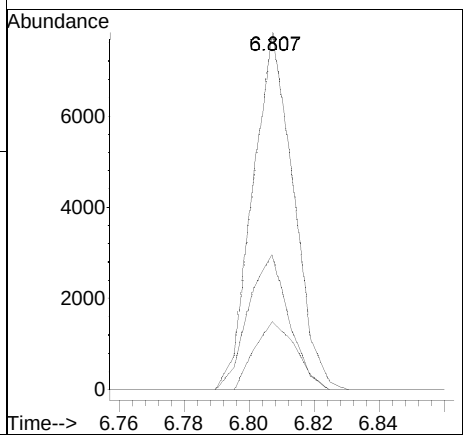


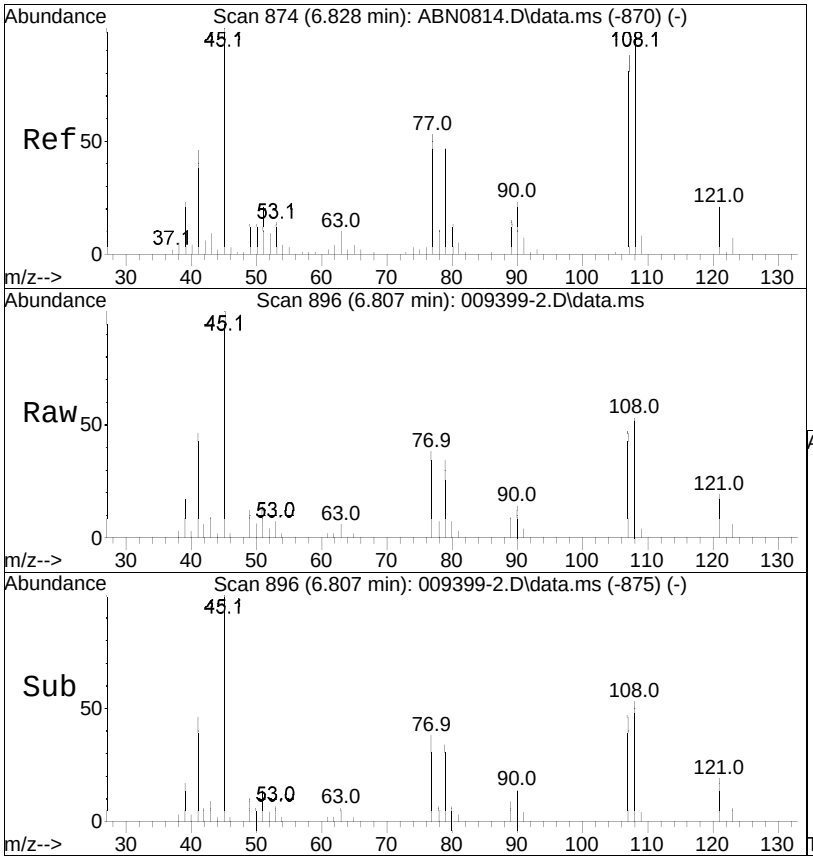


#14
Bis(2-chloroisopropyl)ether
Concen: 1.33 ug/ml
RT: 6.807 min Scan# 896
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion: 45 Resp: 6757

Ion	Ratio	Lower	Upper
45	100		
121	19.8	9.8	14.6#
77	38.2	6.1	9.1#

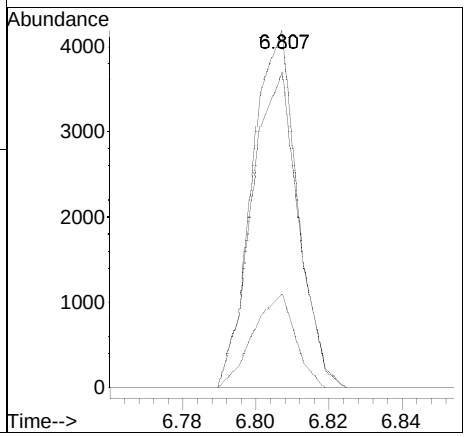


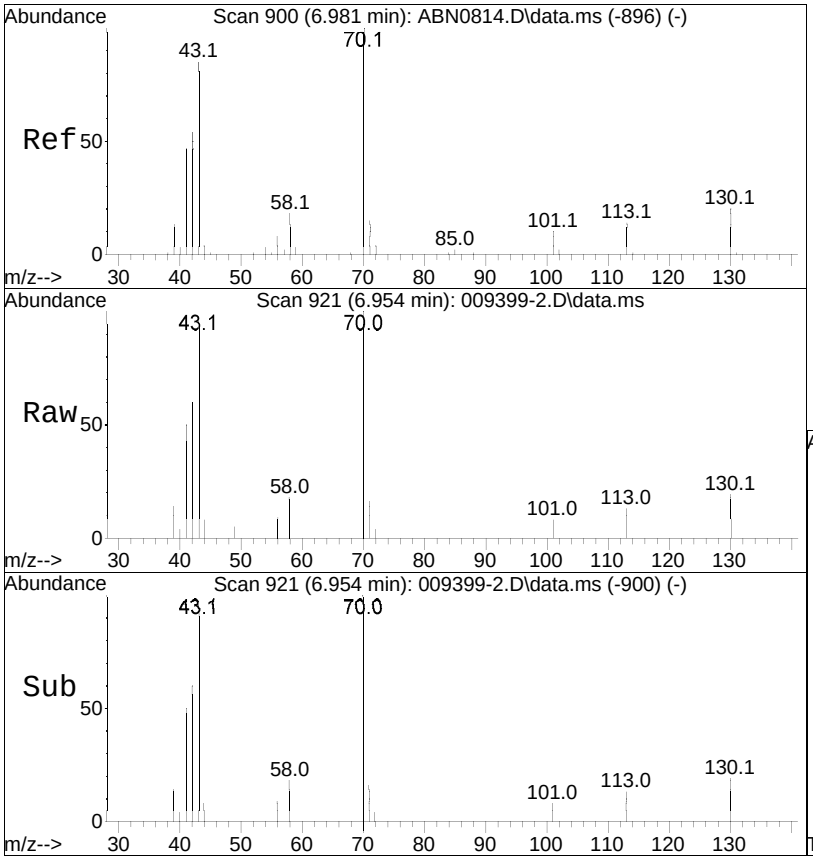


#15
2-Methylphenol
Concen: 1.01 ug/ml
RT: 6.807 min Scan# 896
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:108 Resp: 3580

Ion	Ratio	Lower	Upper
108	100		
107	90.9	70.7	106.1
90	24.6	18.7	28.1

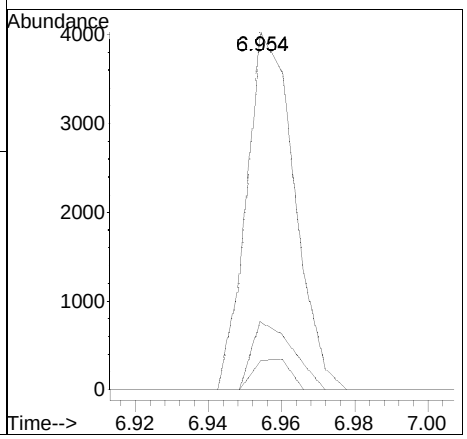


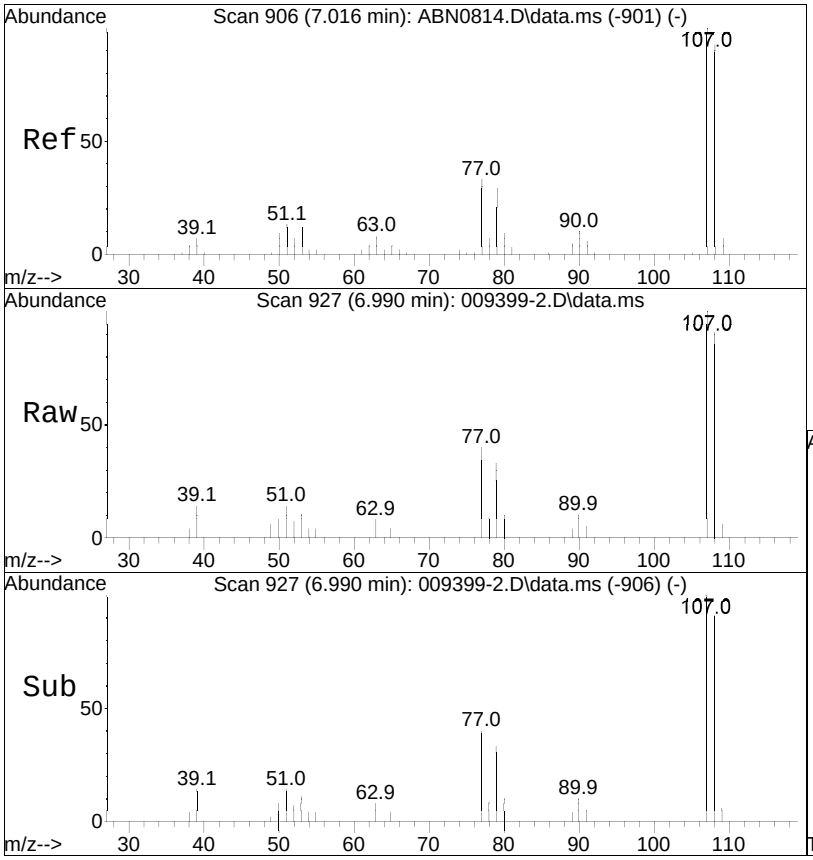


#17
n-Nitrosodi-n-propylamine
Concen: 1.34 ug/ml
RT: 6.954 min Scan# 921
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion: 70 Resp: 3636

Ion	Ratio	Lower	Upper
70	100		
130	16.3	18.2	27.4#
101	0.0	7.8	11.8#

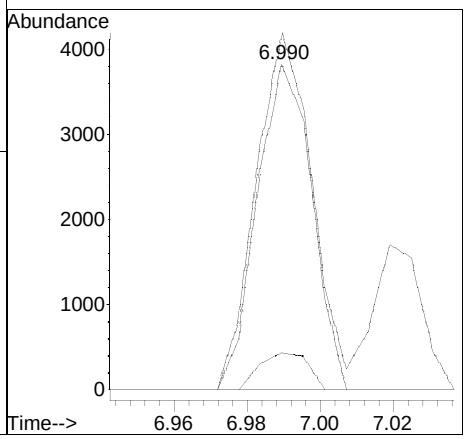


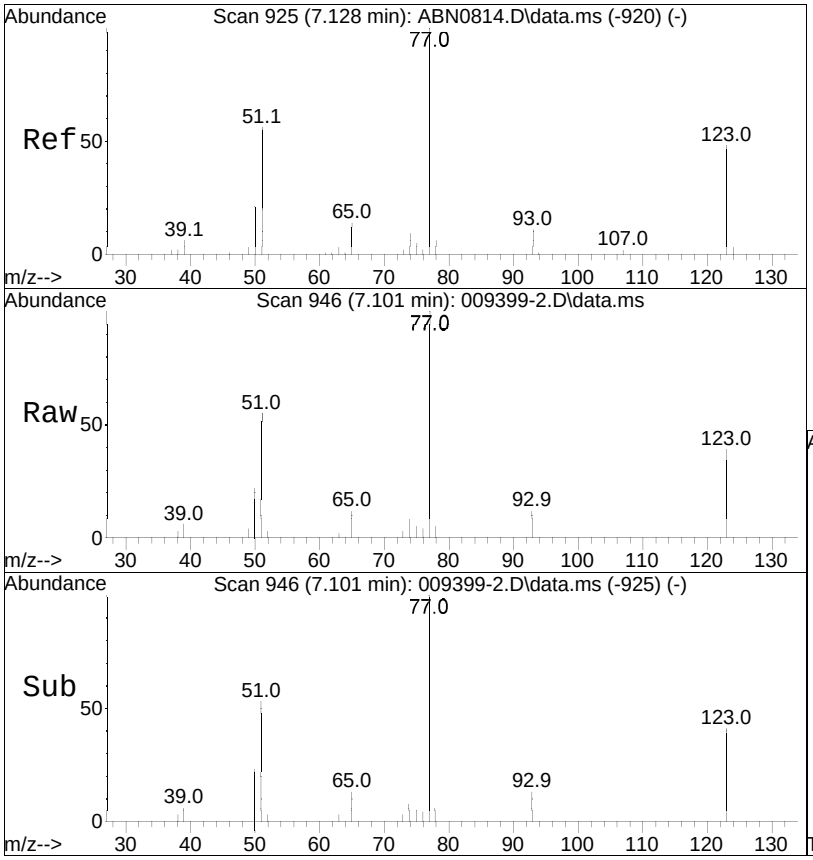


#18
3-Methylphenol/4-Methylphenol
Concen: 1.01 ug/ml
RT: 6.990 min Scan# 927
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:108 Resp: 3961

Ion	Ratio	Lower	Upper
108	100		
107	112.3	88.6	132.8
90	10.2	8.8	13.2

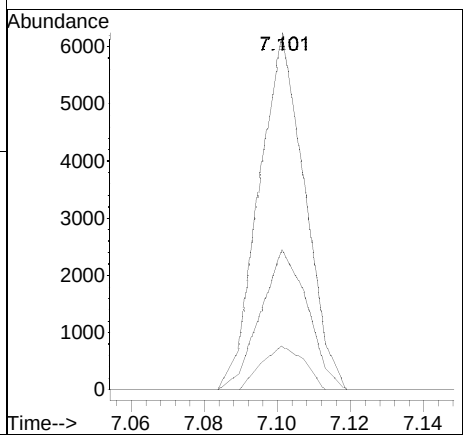


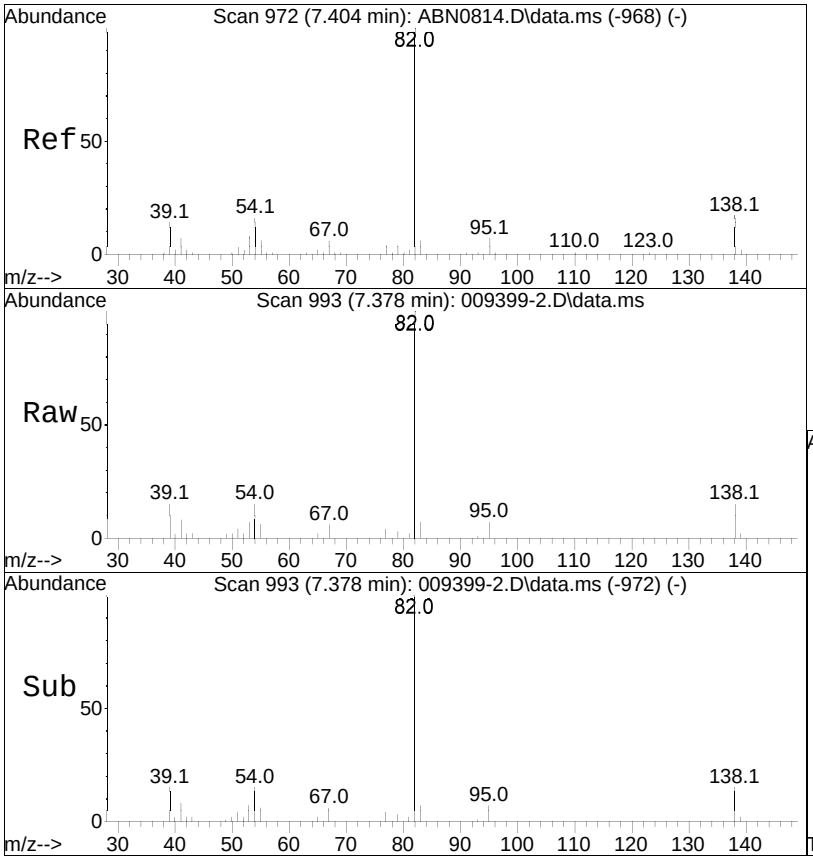


#20
Nitrobenzene
Concen: 1.30 ug/ml
RT: 7.101 min Scan# 946
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion: 77 Resp: 5364

Ion	Ratio	Lower	Upper
77	100		
123	40.5	36.3	54.5
65	11.6	11.6	17.4#

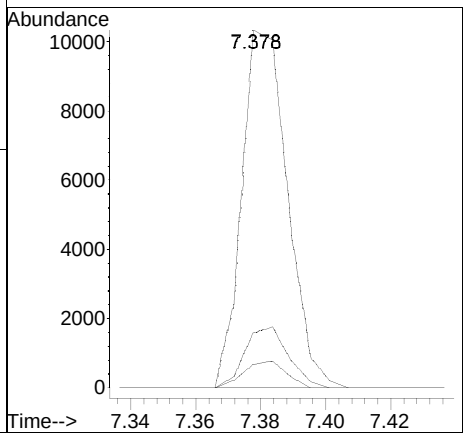


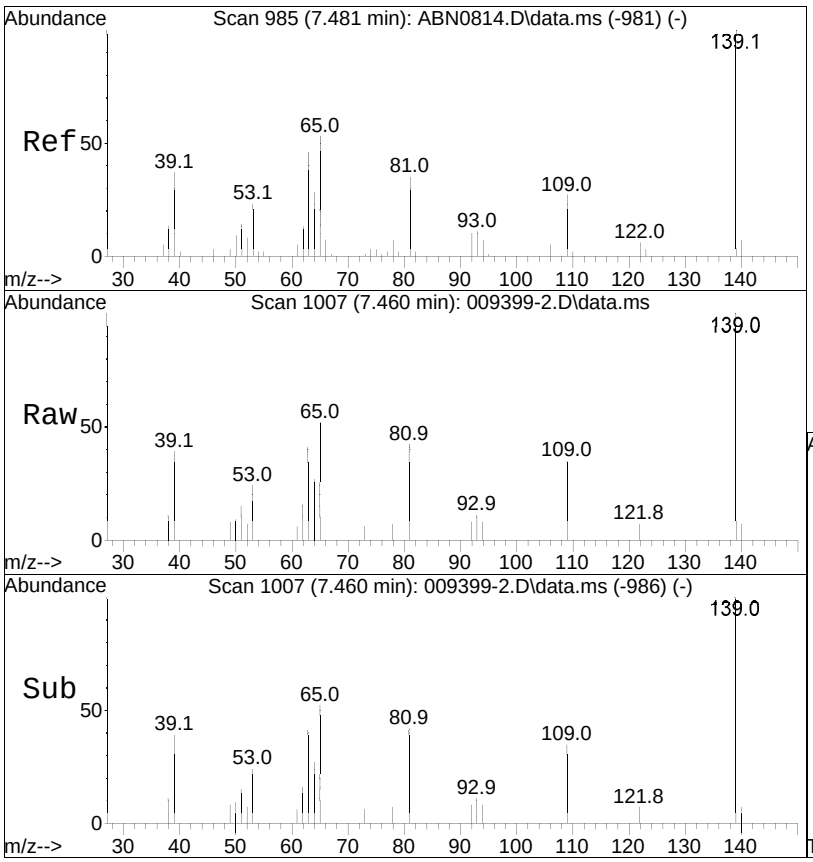


#21
Isophorone
Concen: 1.35 ug/ml
RT: 7.378 min Scan# 993
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion: 82 Resp: 9970

Ion	Ratio	Lower	Upper
82	100		
138	16.3	14.7	22.1
95	7.0	5.2	7.8

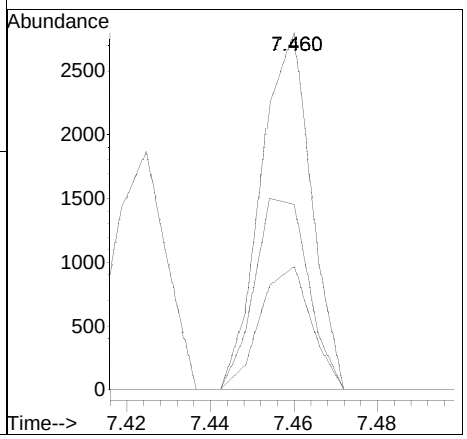


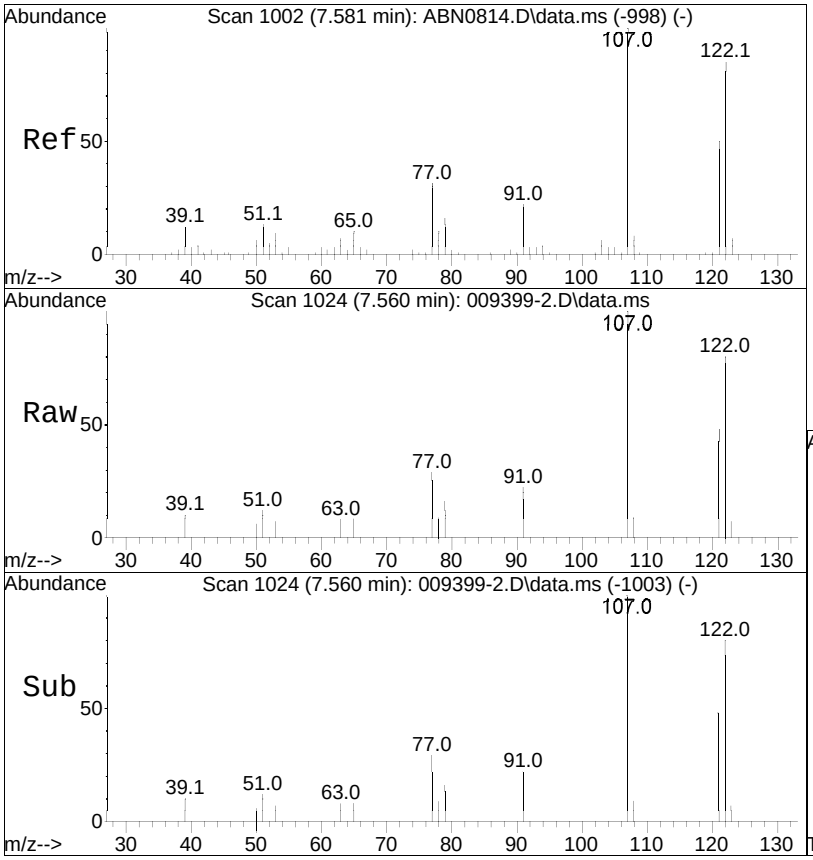


#22
2-Nitrophenol
Concen: 1.12 ug/ml
RT: 7.460 min Scan# 1007
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:139 Resp: 2342

Ion	Ratio	Lower	Upper
139	100		
109	35.1	19.4	29.0#
65	57.4	46.1	69.1

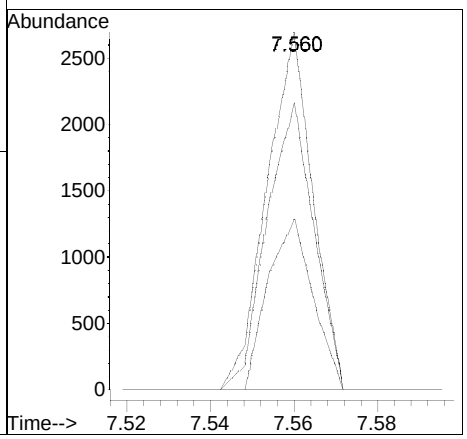


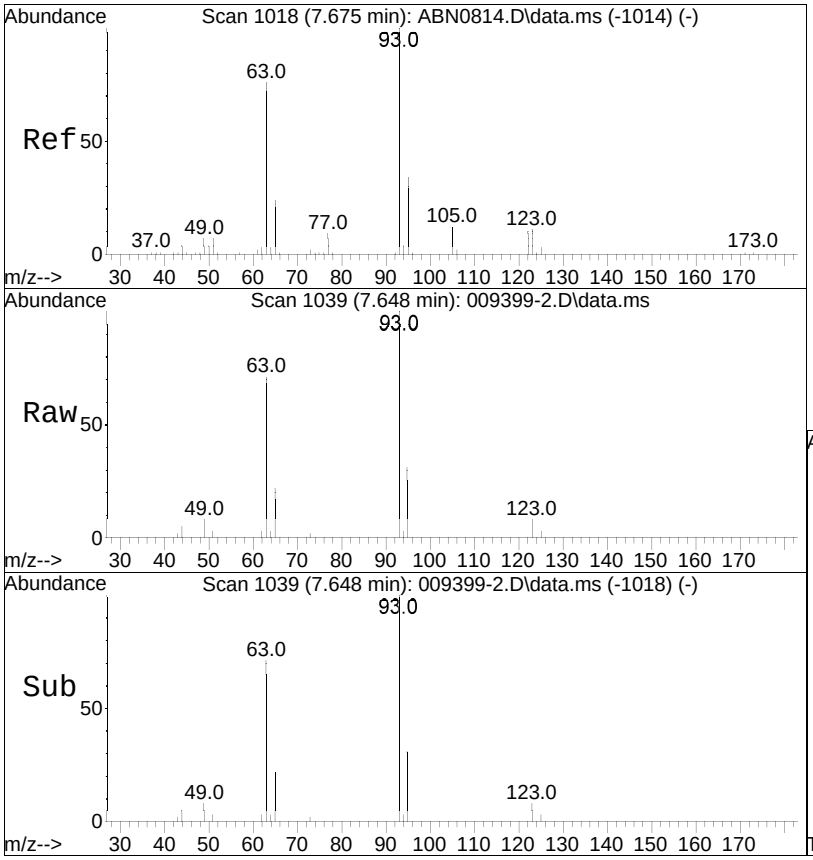


#23
2,4-Dimethylphenol
Concen: 0.60 ug/ml
RT: 7.560 min Scan# 1024
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:107 Resp: 2043

Ion	Ratio	Lower	Upper
107	100		
121	46.6	40.0	60.0
122	82.1	70.2	105.4

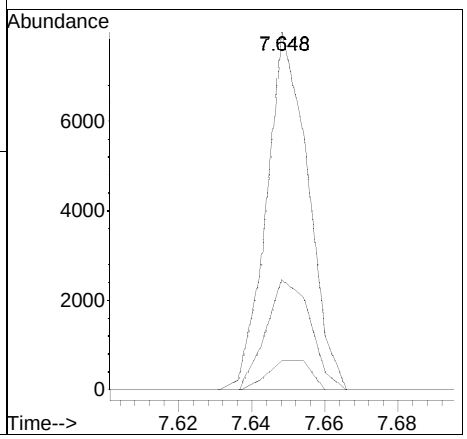


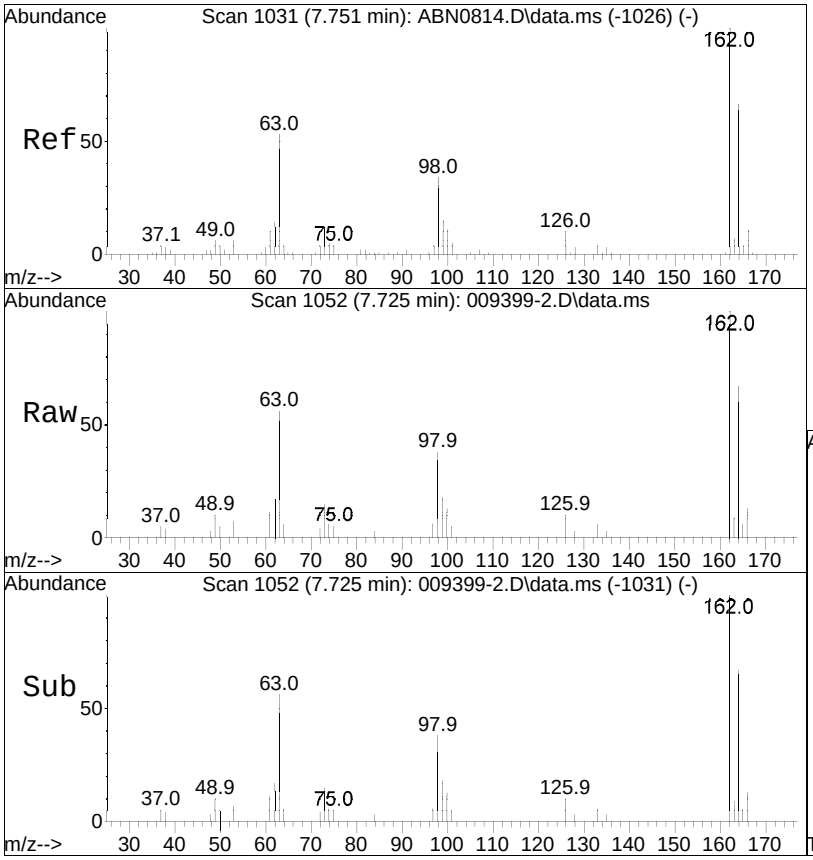


#24
Bis(2-chloroethoxy)methane
Concen: 1.25 ug/ml
RT: 7.648 min Scan# 1039
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion: 93 Resp: 6230

Ion	Ratio	Lower	Upper
93	100		
95	33.1	25.8	38.8
123	8.5	10.1	15.1#

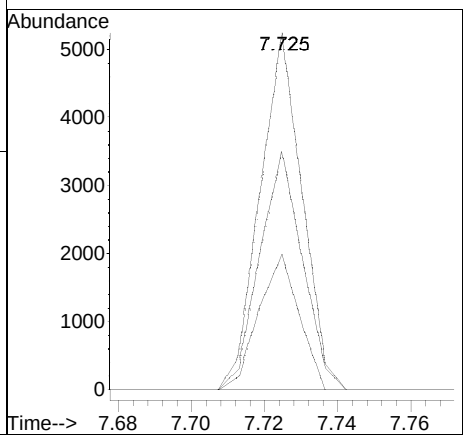


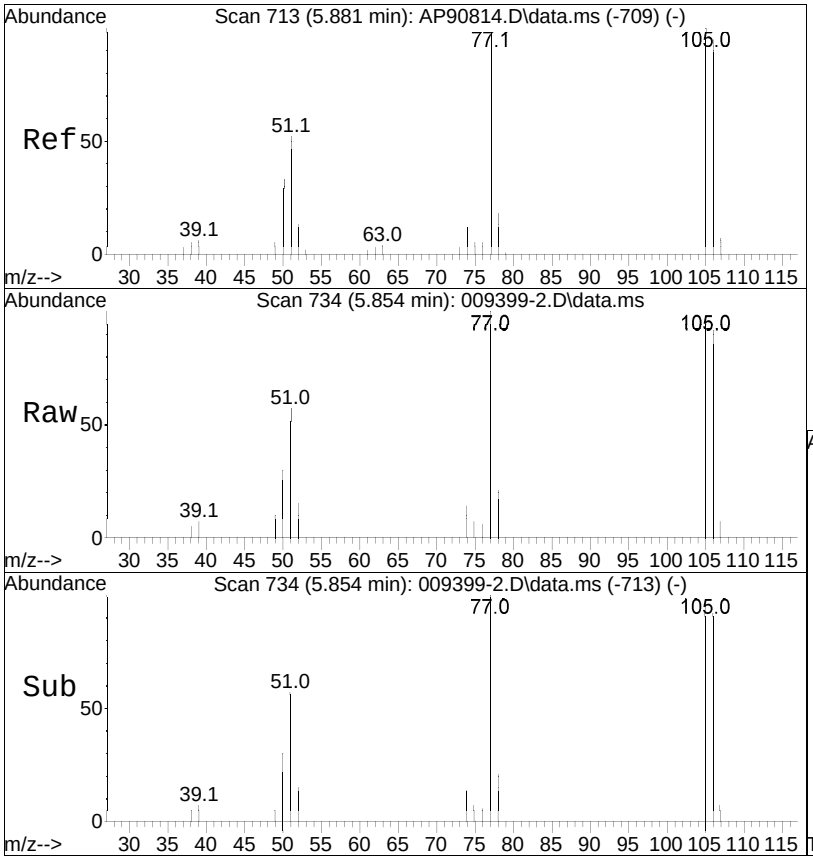


#25
2,4-Dichlorophenol
Concen: 1.12 ug/ml
RT: 7.725 min Scan# 1052
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:162 Resp: 4152

Ion	Ratio	Lower	Upper
162	100		
164	68.1	51.0	76.4
98	36.6	32.2	48.2

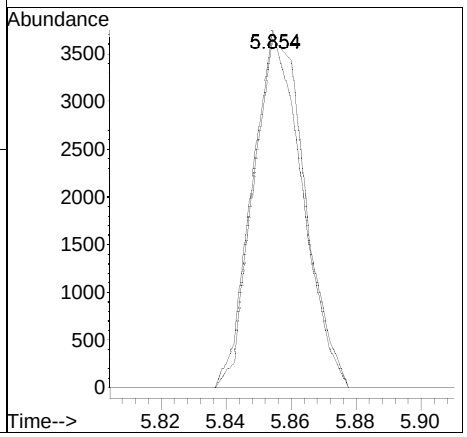


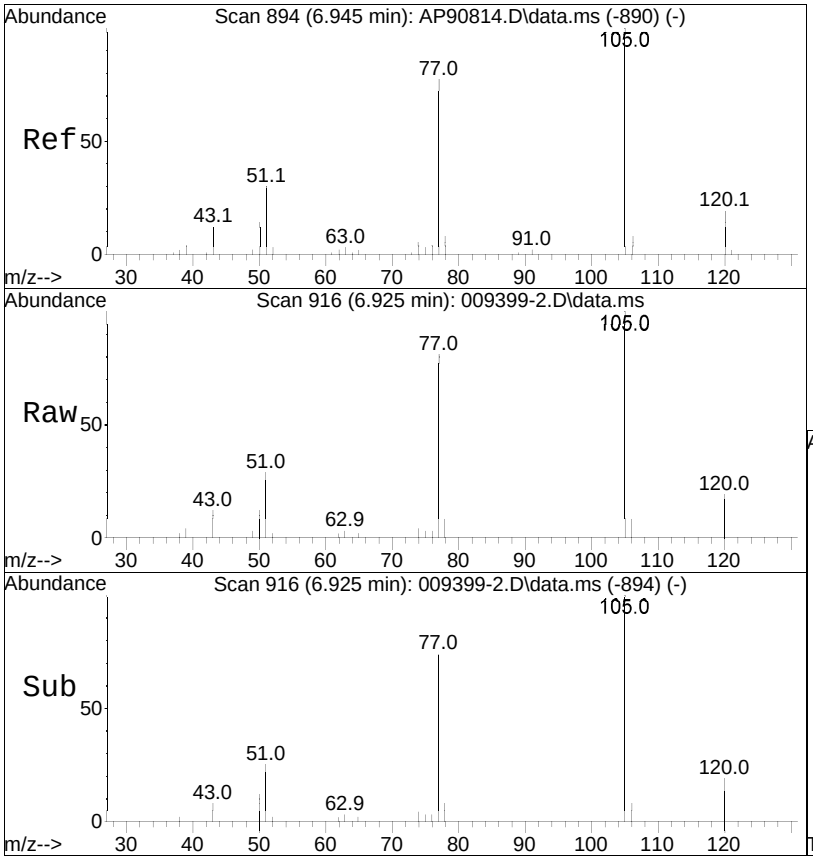


#28
Benzaldehyde
Concen: 1.12 ug/ml
RT: 5.854 min Scan# 734
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:105 Resp: 4027

Ion	Ratio	Lower	Upper
105	100		
77	98.3	82.2	123.4

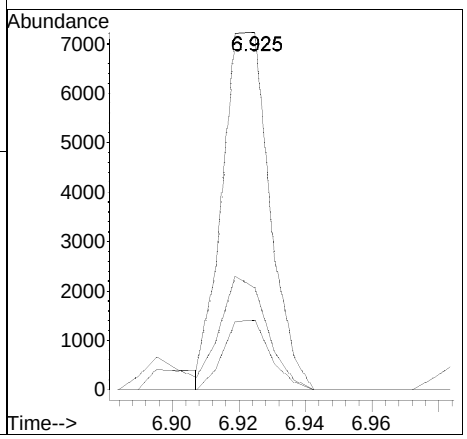


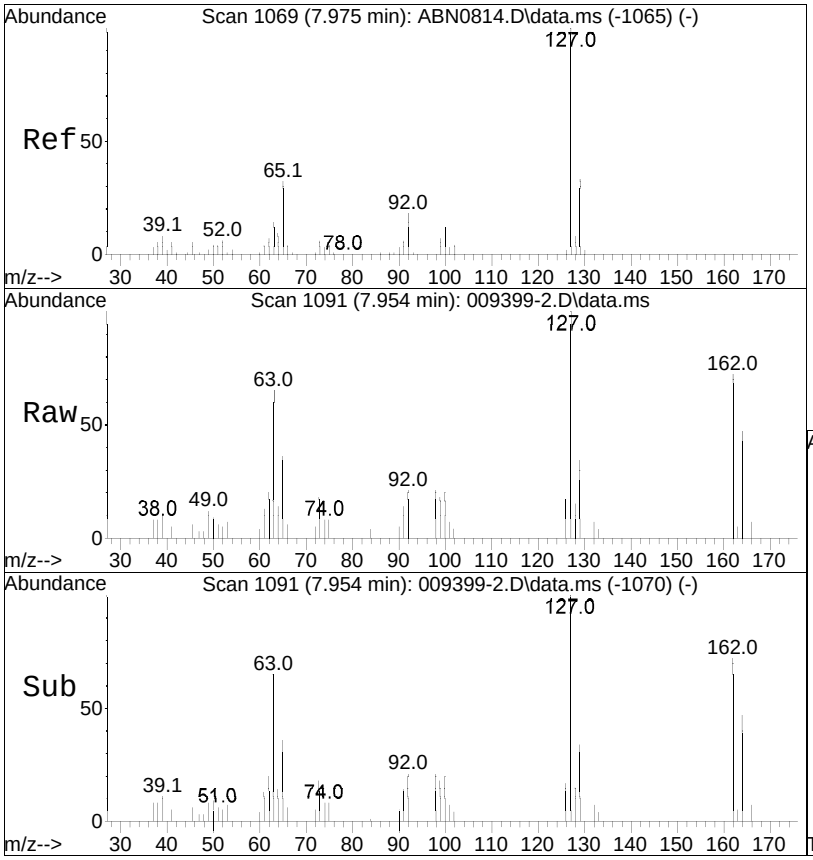


#29
Acetophenone
Concen: 1.11 ug/ml M6
RT: 6.925 min Scan# 916
Delta R.T. 0.006 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:105 Resp: 7109

Ion	Ratio	Lower	Upper
105	100		
120	19.2	20.5	30.7#
51	31.2	34.9	52.3#

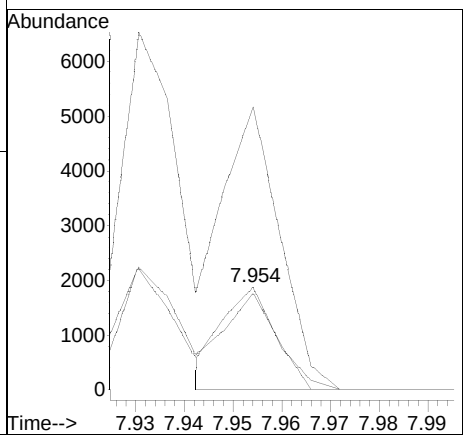


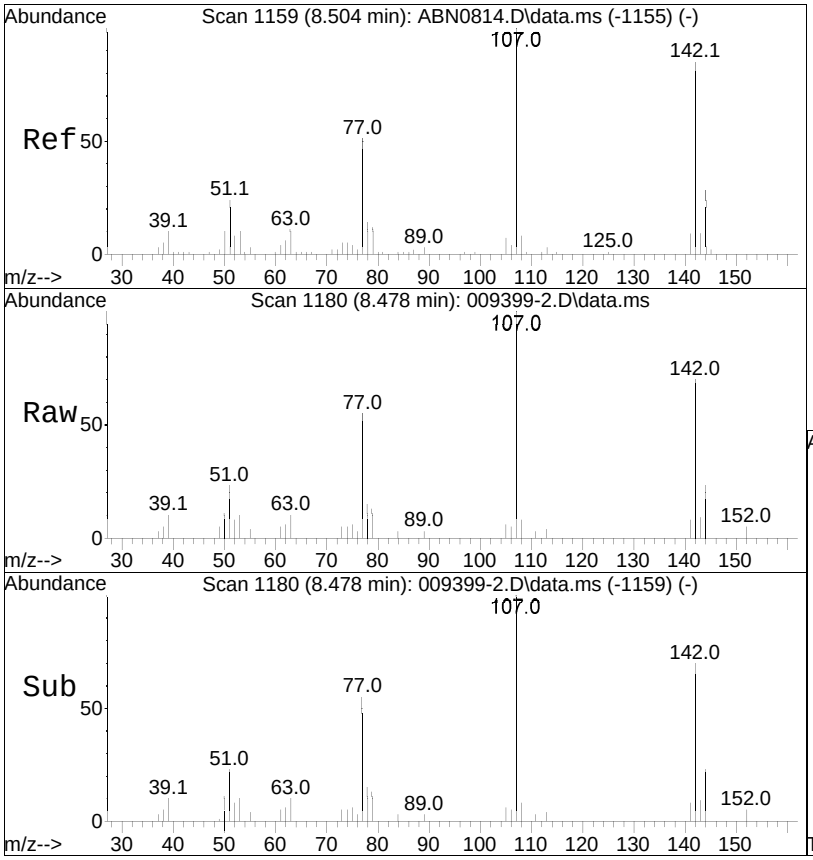


#38
4-Chloroaniline
Concen: 1.00 ug/ml
RT: 7.954 min Scan# 1091
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion: 65 Resp: 1455

Ion	Ratio	Lower	Upper
65	100		
127	290.0	237.6	356.4
129	0.0	76.3	114.5#

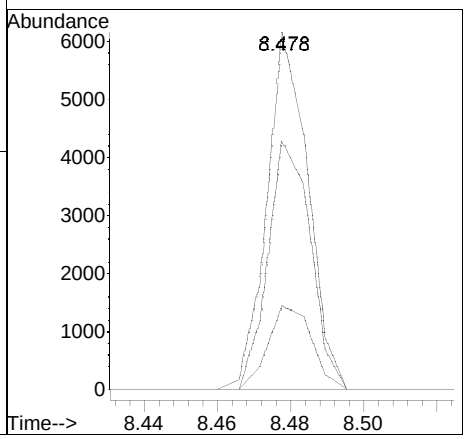


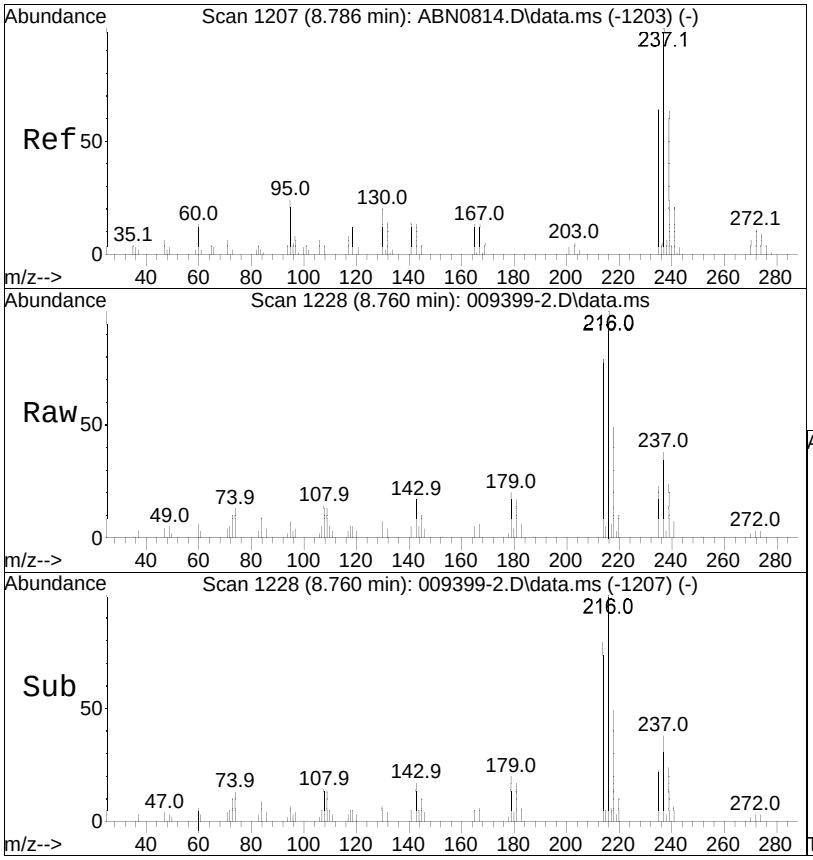


#40
p-Chloro-m-cresol
Concen: 1.47 ug/ml
RT: 8.478 min Scan# 1180
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:107 Resp: 4767

Ion	Ratio	Lower	Upper
107	100		
144	25.0	20.9	31.3
142	72.0	66.1	99.1

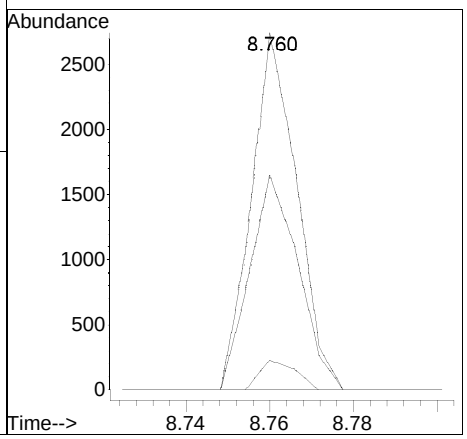


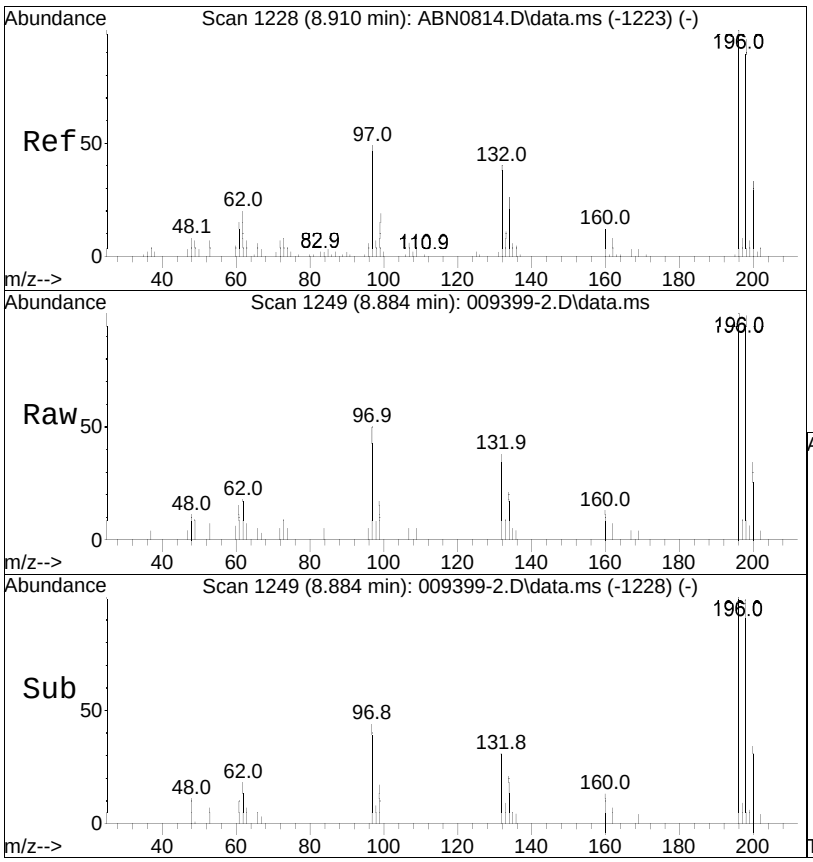


#43
Hexachlorocyclopentadiene
Concen: 0.85 ug/ml
RT: 8.760 min Scan# 1228
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:237 Resp: 2058

Ion	Ratio	Lower	Upper
237	100		
235	64.3	49.7	74.5
272	0.0	9.8	14.6#

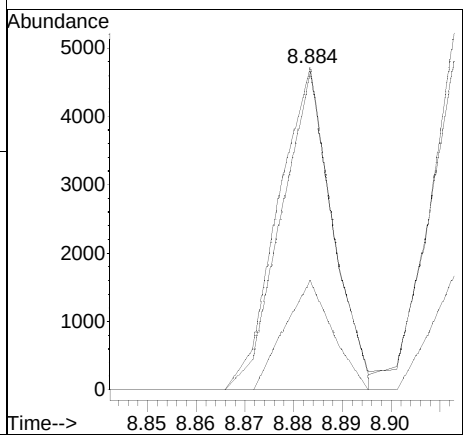


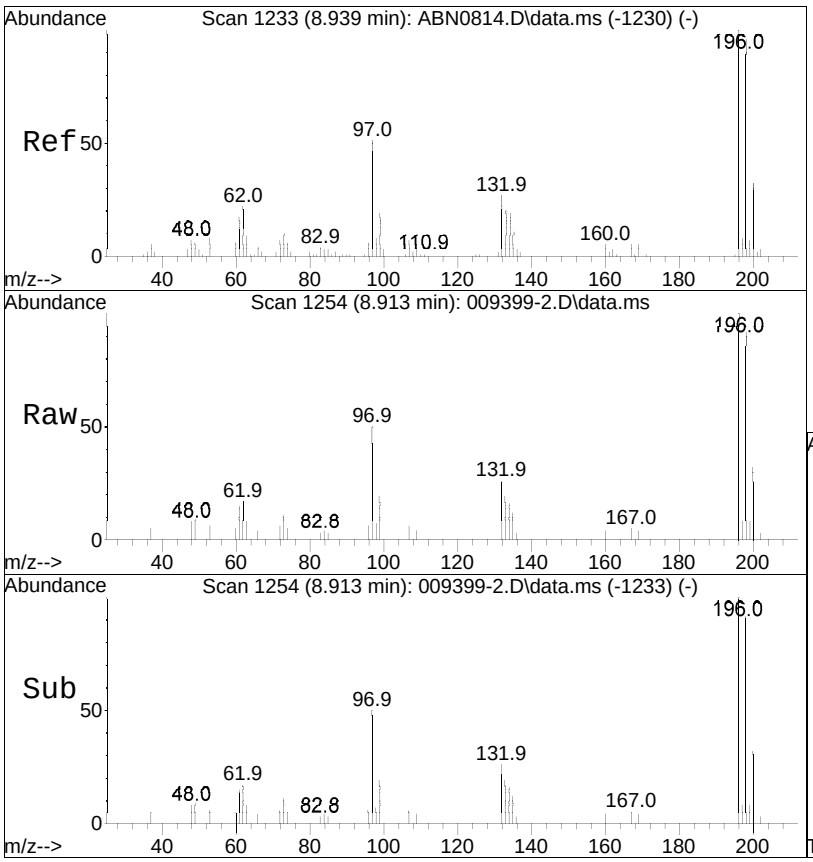


#44
2,4,6-Trichlorophenol
Concen: 1.36 ug/ml
RT: 8.884 min Scan# 1249
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:196 Resp: 3662

Ion	Ratio	Lower	Upper
196	100		
198	93.6	77.5	116.3
200	29.6	23.8	35.6

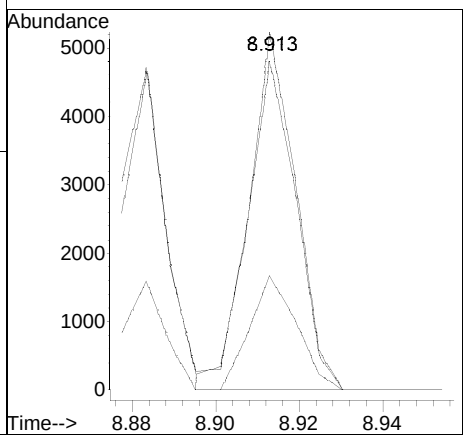


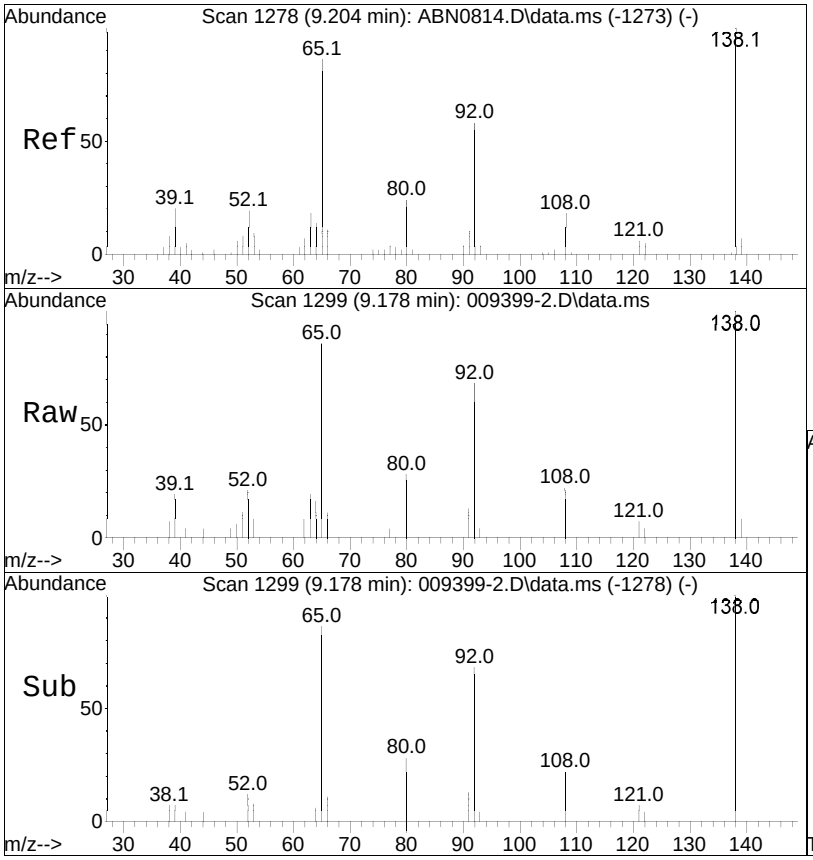


#45
2,4,5-Trichlorophenol
Concen: 1.42 ug/ml
RT: 8.913 min Scan# 1254
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:196 Resp: 4048

Ion	Ratio	Lower	Upper
196	100		
200	32.1	25.4	38.0
198	94.6	78.0	117.0

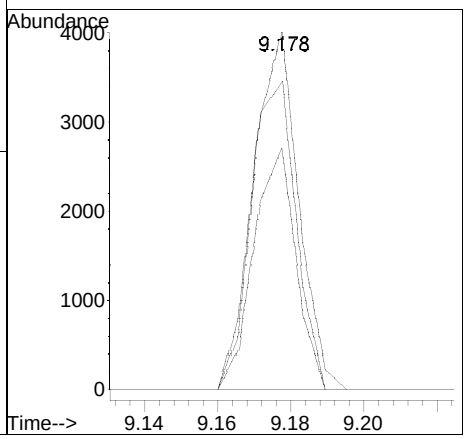


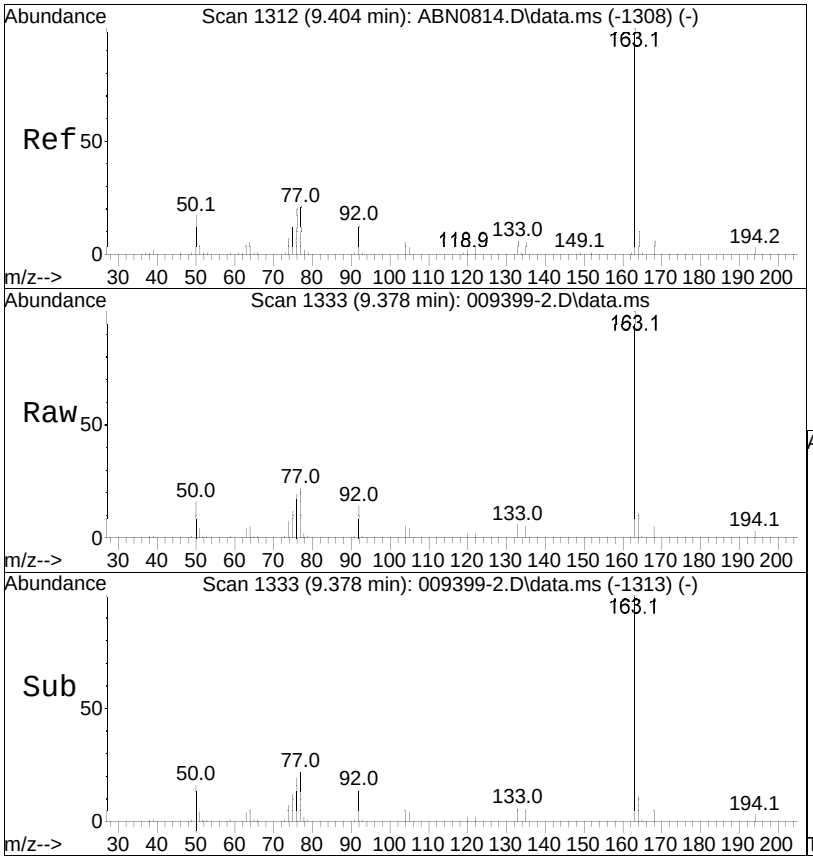


#48
2-Nitroaniline
Concen: 1.43 ug/ml
RT: 9.178 min Scan# 1299
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:138 Resp: 3356

Ion	Ratio	Lower	Upper
138	100		
92	64.1	53.5	80.3
65	89.1	86.3	129.5

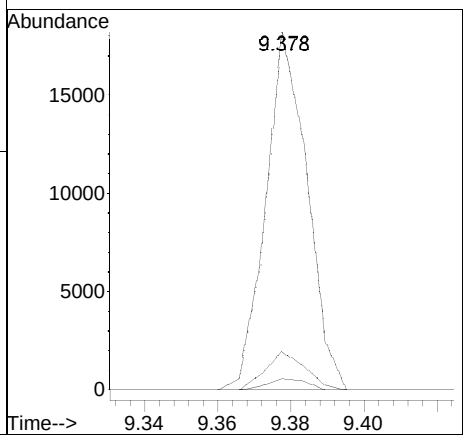


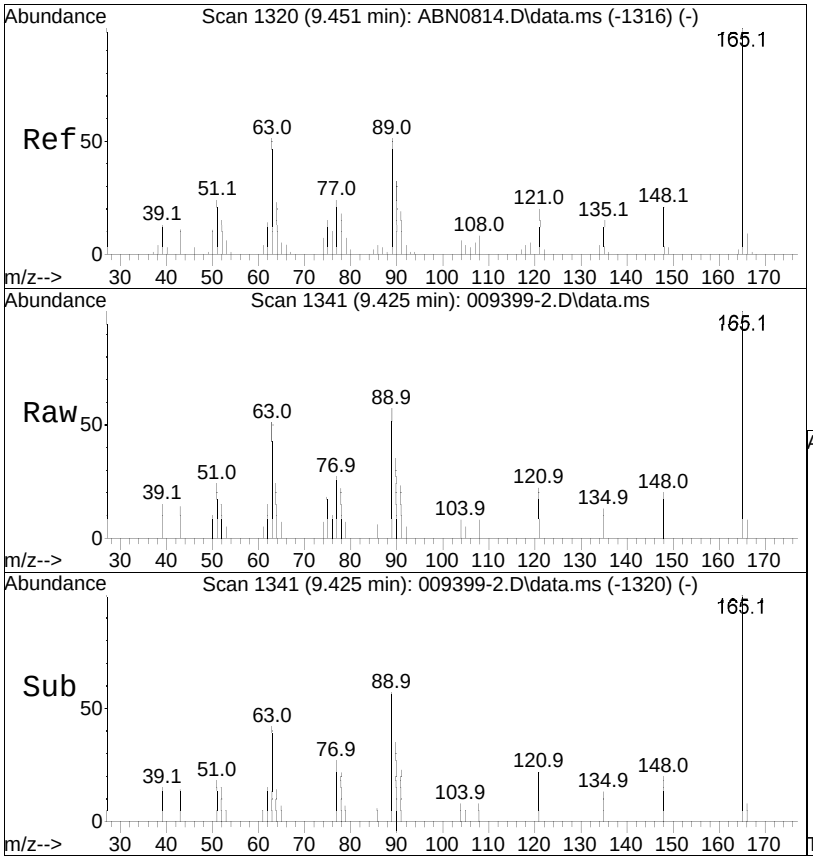


#51
Dimethyl phthalate
Concen: 1.43 ug/ml
RT: 9.378 min Scan# 1333
Delta R.T. -0.006 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:163 Resp: 14161

Ion	Ratio	Lower	Upper
163	100		
194	3.0	3.5	5.3#
164	10.4	7.9	11.9

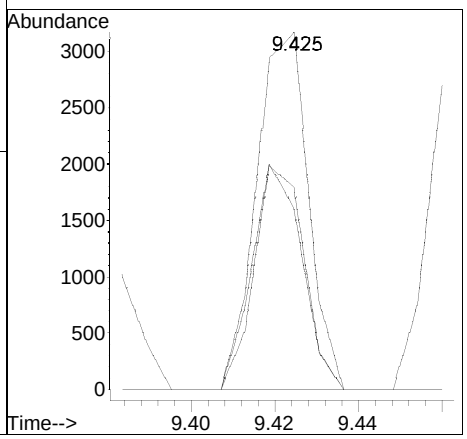


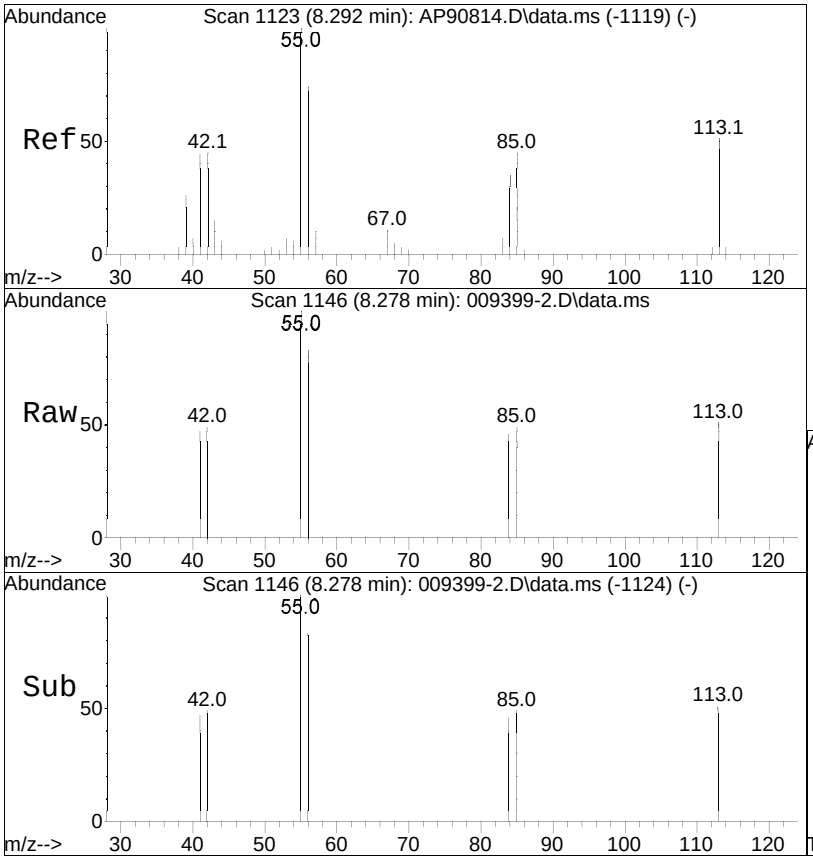


#53
2,6-Dinitrotoluene
Concen: 1.41 ug/ml
RT: 9.425 min Scan# 1341
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:165 Resp: 2729

Ion	Ratio	Lower	Upper
165	100		
89	60.1	54.2	81.2
63	60.4	64.2	96.2#

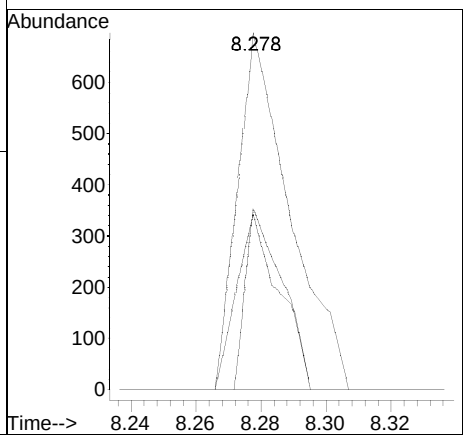


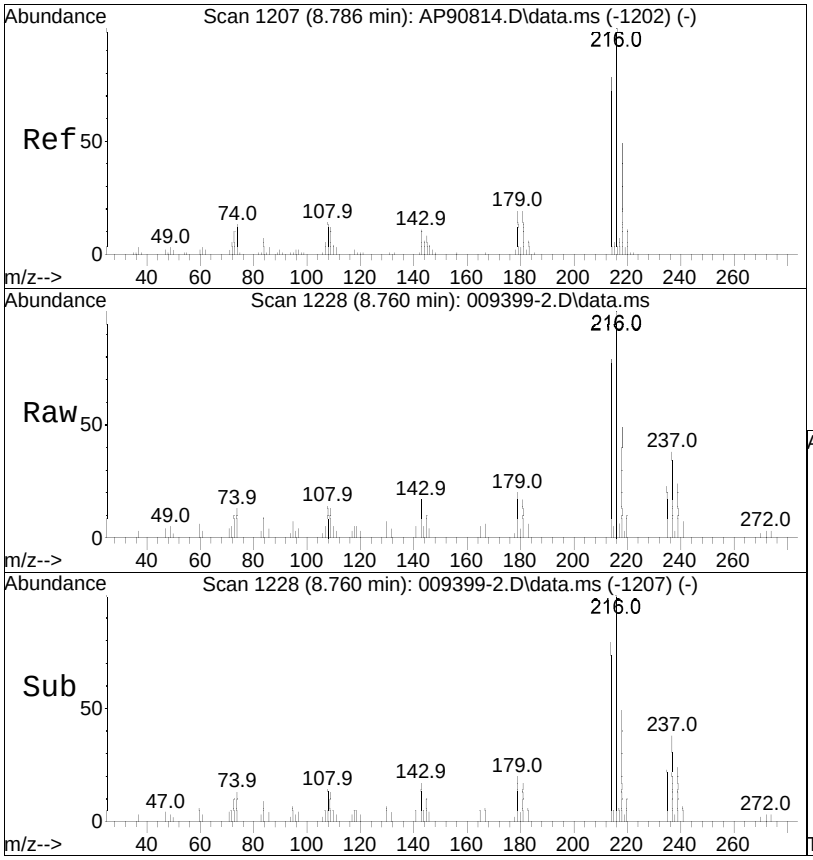


#60
Caprolactam
Concen: 0.95 ug/ml
RT: 8.278 min Scan# 1146
Delta R.T. 0.006 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion: 55 Resp: 777

Ion	Ratio	Lower	Upper
55	100		
85	0.0	19.8	29.6#
113	86.1	29.6	44.4#

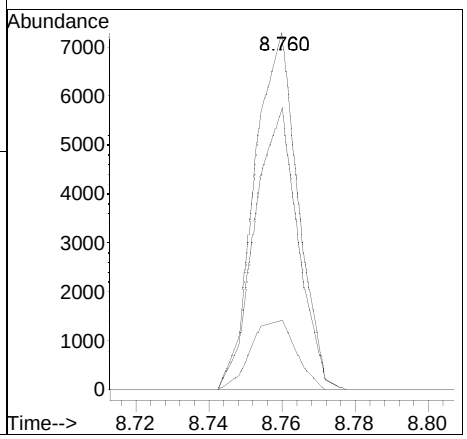


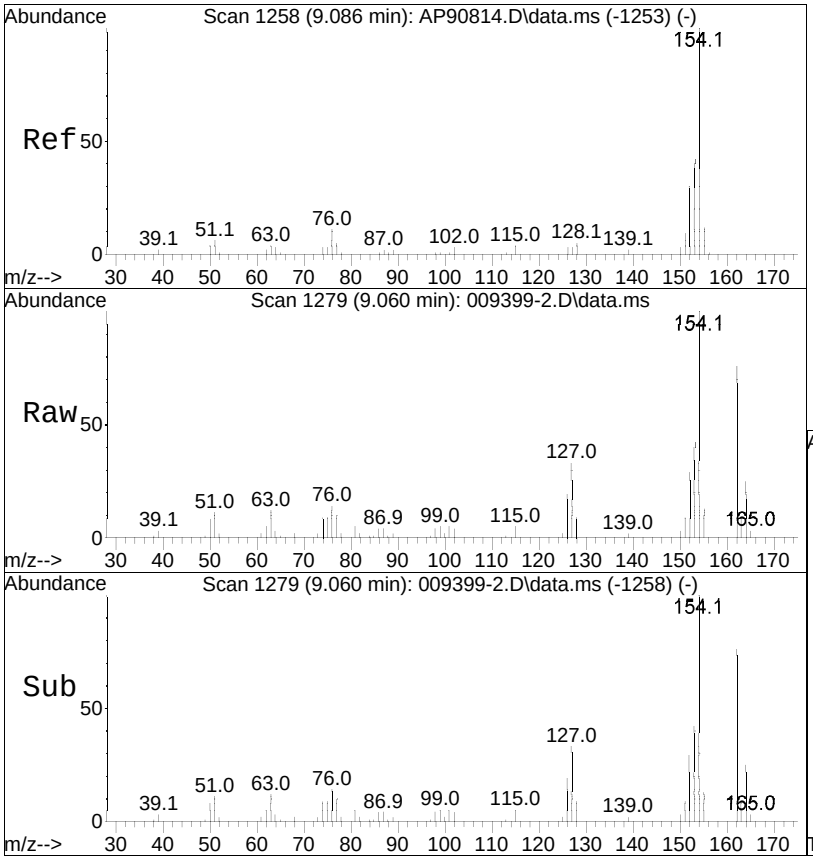


#61
1,2,4,5-Tetrachlorobenzene
Concen: 1.17 ug/ml
RT: 8.760 min Scan# 1228
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:216 Resp: 5969

Ion	Ratio	Lower	Upper
216	100		
214	79.0	63.7	95.5
179	20.6	19.0	28.6

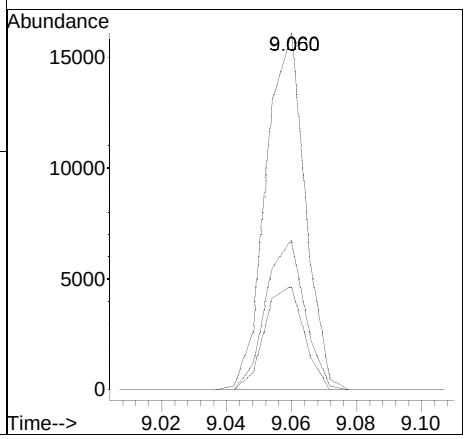


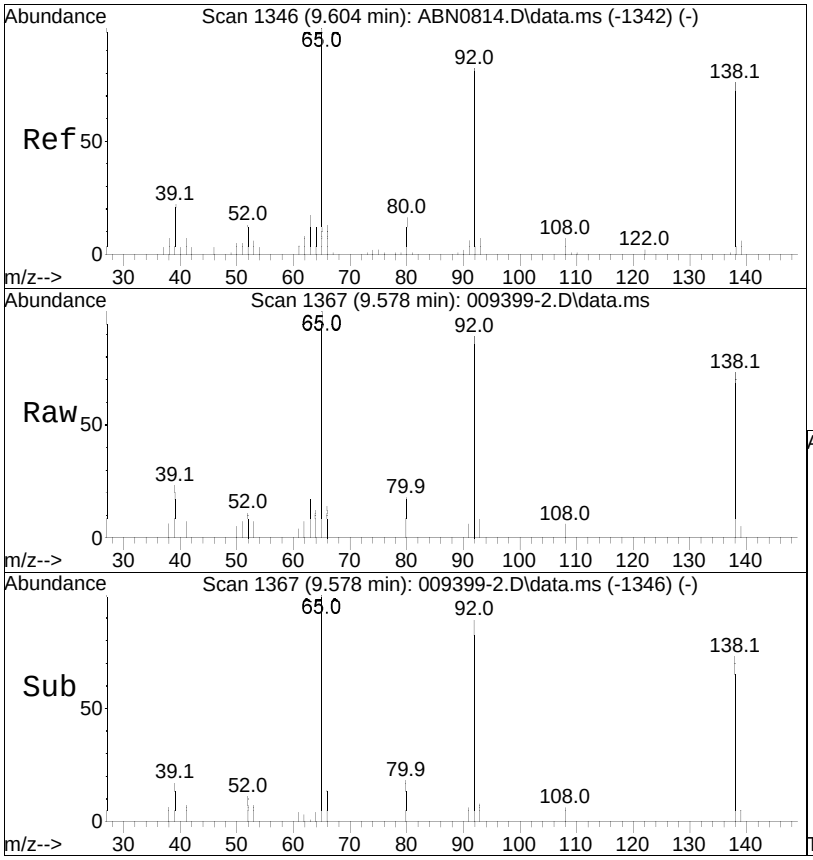


#62
Biphenyl
Concen: 1.13 ug/ml
RT: 9.060 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:154 Resp: 13431

Ion	Ratio	Lower	Upper
154	100		
153	41.6	32.3	48.5
152	29.1	22.5	33.7

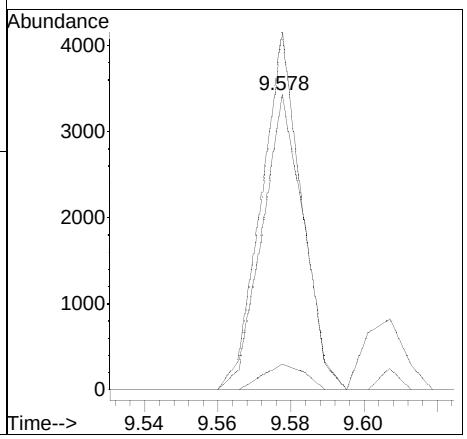


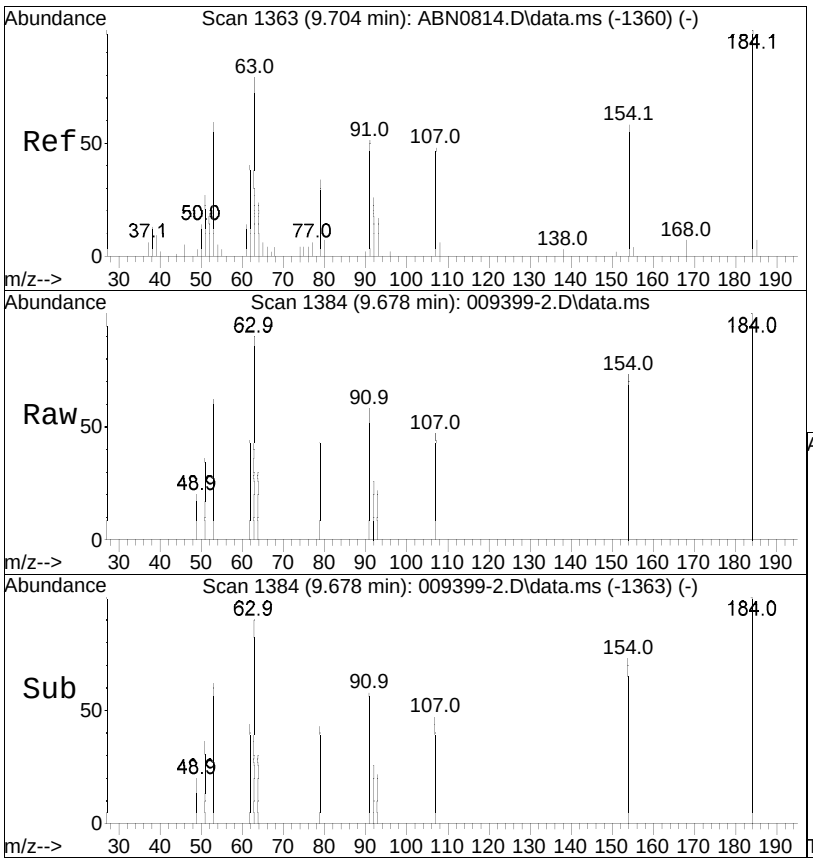


#64
3-Nitroaniline
Concen: 1.18 ug/ml
RT: 9.578 min Scan# 1367
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:138 Resp: 2696

Ion	Ratio	Lower	Upper
138	100		
92	116.6	93.4	140.2
108	23.3	9.5	14.3#

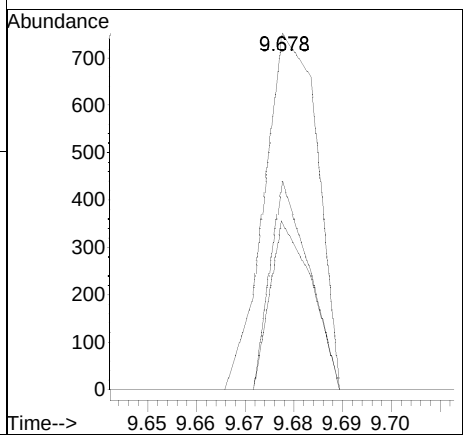


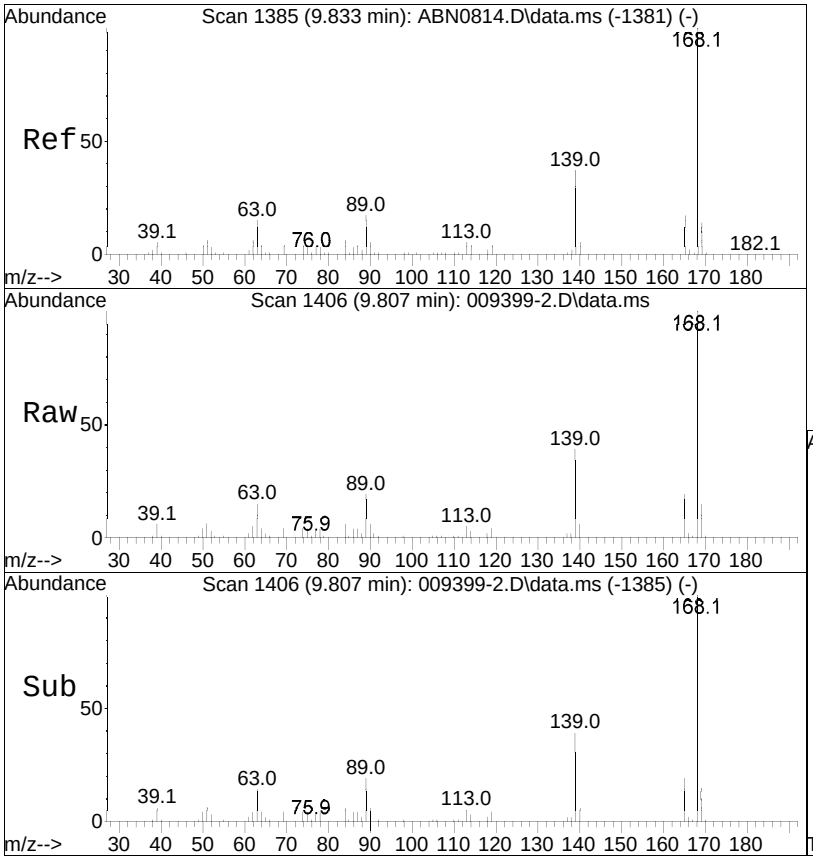


#66
2,4-Dinitrophenol
Concen: 1.30 ug/ml
RT: 9.678 min Scan# 1384
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:184 Resp: 567

Ion	Ratio	Lower	Upper
184	100		
107	0.0	37.7	56.5#
91	0.0	46.3	69.5#

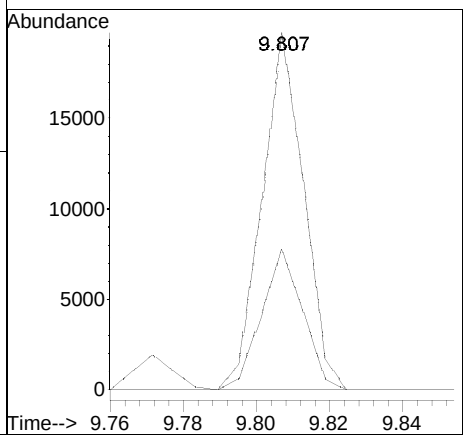


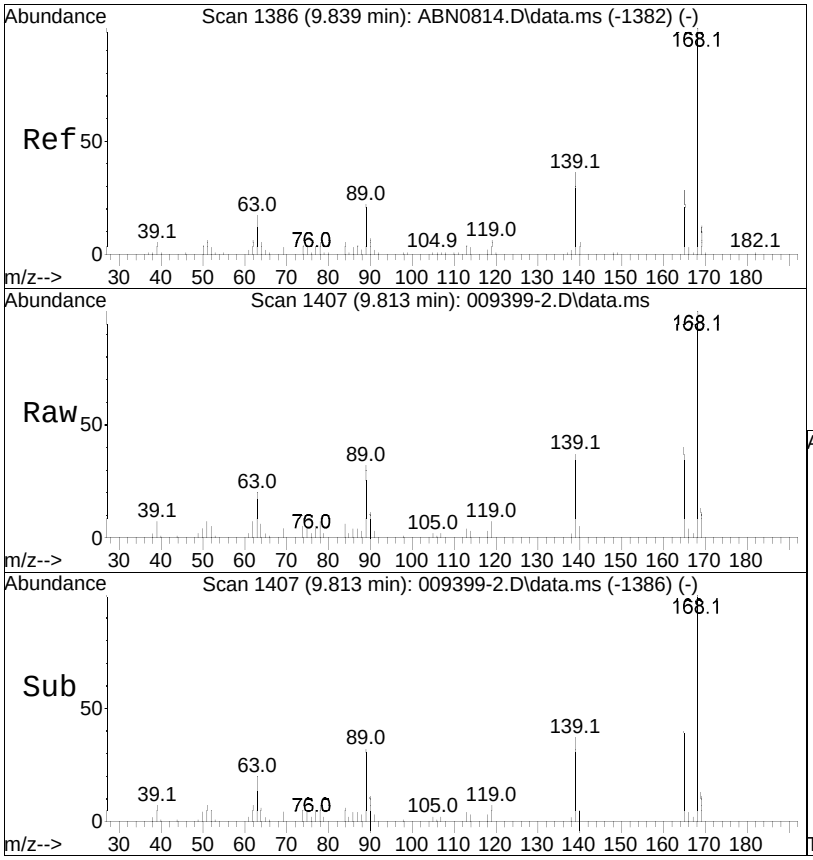


#67
Dibenzofuran
Concen: 1.15 ug/ml
RT: 9.807 min Scan# 1406
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:168 Resp: 15479

Ion	Ratio	Lower	Upper
168	100		
139	39.3	31.4	47.2

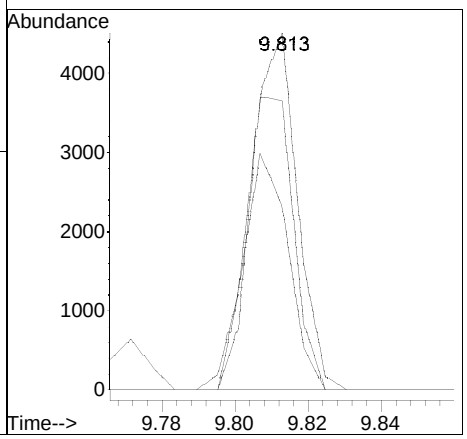


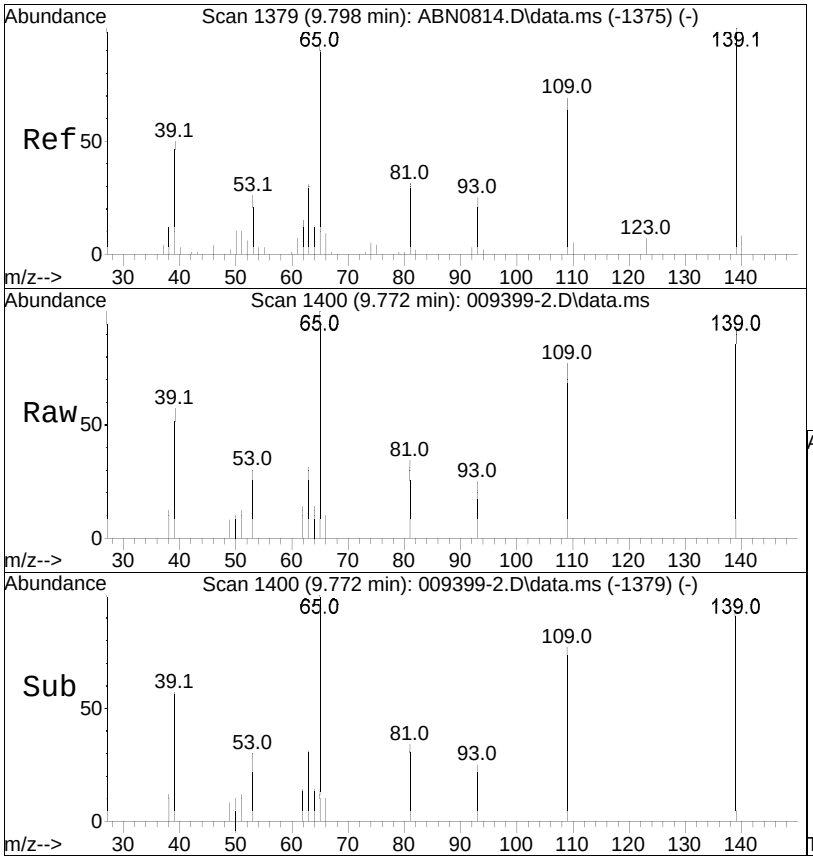


#68
2,4-Dinitrotoluene
Concen: 1.31 ug/ml
RT: 9.813 min Scan# 1407
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:165 Resp: 3833

Ion	Ratio	Lower	Upper
165	100		
89	86.6	72.0	108.0
63	66.9	52.7	79.1

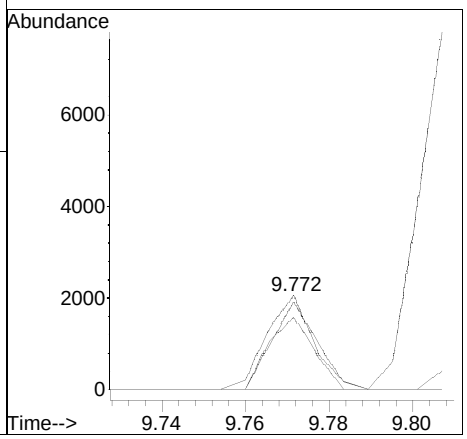


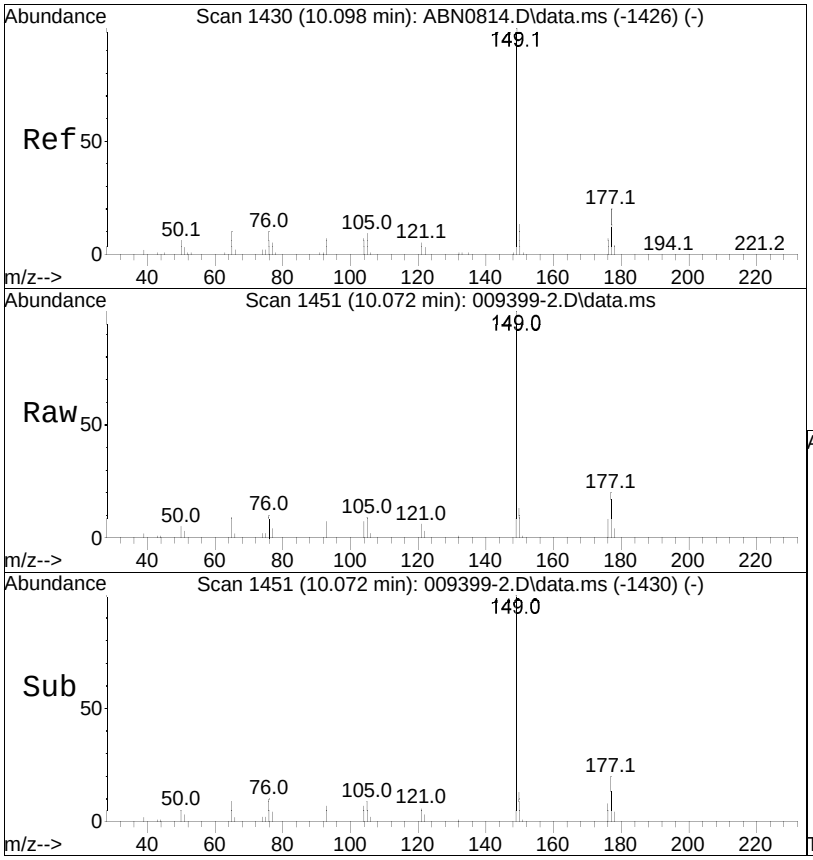


#69
4-Nitrophenol
Concen: 0.89 ug/ml
RT: 9.772 min Scan# 1400
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion: 65 Resp: 1604

Ion	Ratio	Lower	Upper
65	100		
109	73.9	47.4	71.2#
139	89.1	76.6	115.0

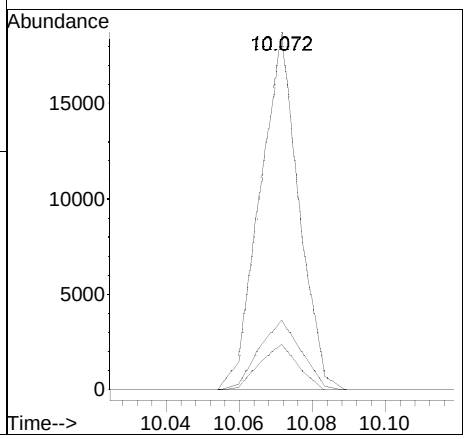


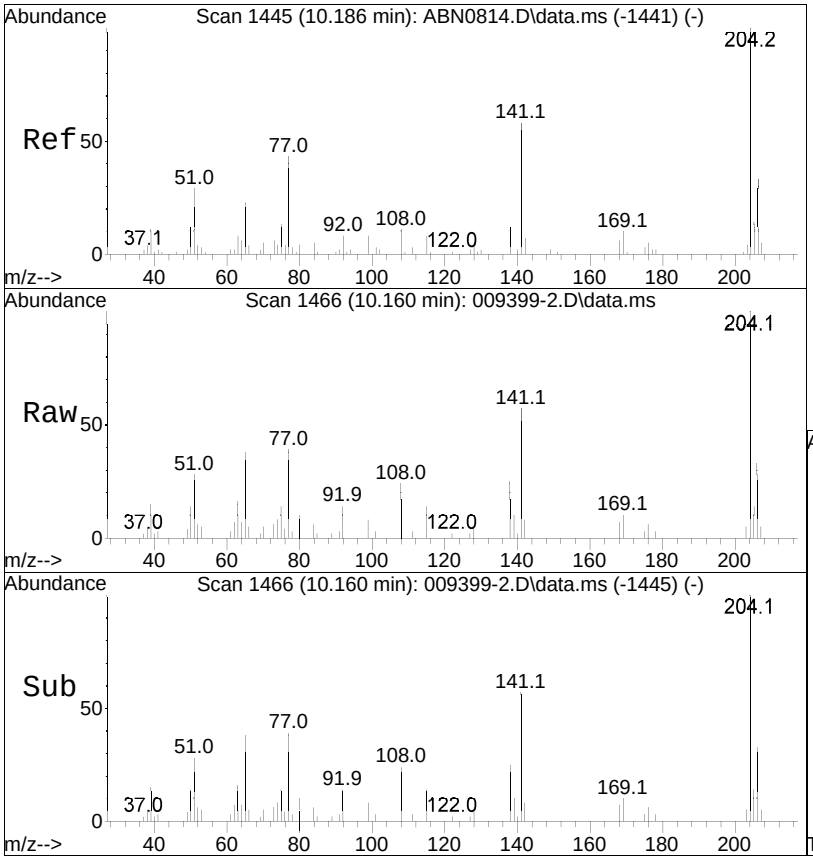


#72
Diethyl phthalate
Concen: 1.44 ug/ml
RT: 10.072 min Scan# 1451
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:149 Resp: 13653

Ion	Ratio	Lower	Upper
149	100		
177	21.5	16.1	24.1
150	12.8	9.4	14.2

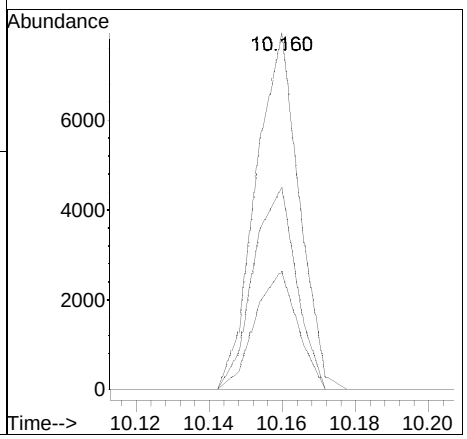


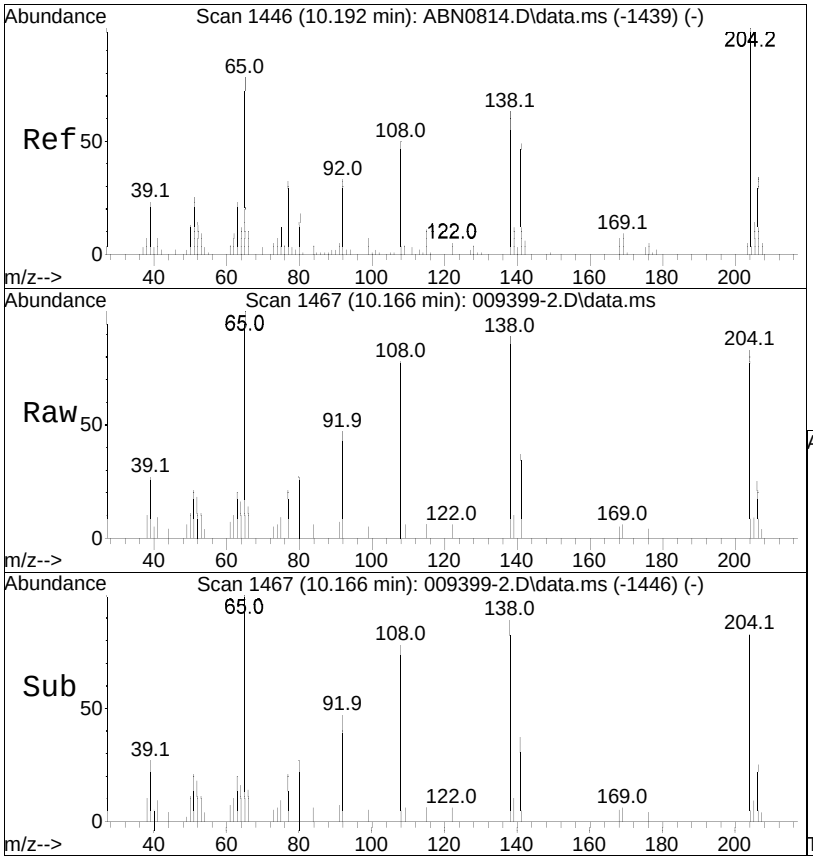


#74
4-Chlorophenyl phenyl ether
Concen: 1.27 ug/ml
RT: 10.160 min Scan# 1466
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:204 Resp: 6495

Ion	Ratio	Lower	Upper
204	100		
206	32.7	25.8	38.6
141	56.5	53.6	80.4

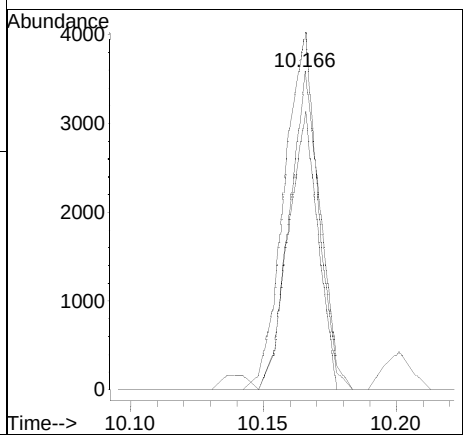


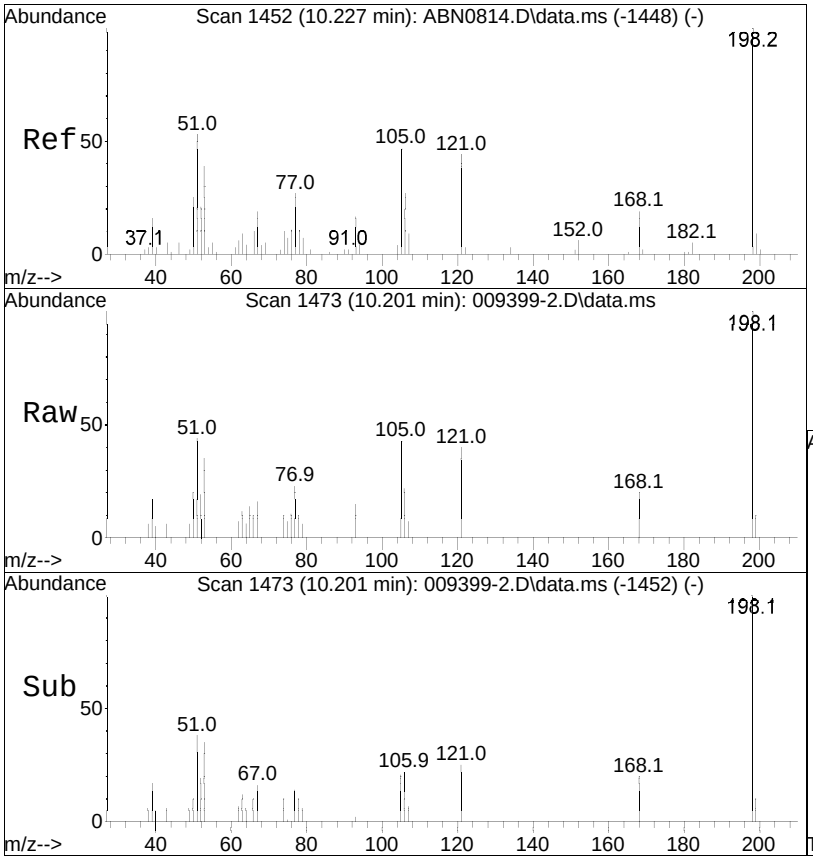


#75
4-Nitroaniline
Concen: 1.31 ug/ml
RT: 10.166 min Scan# 1467
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:138 Resp: 3004

Ion	Ratio	Lower	Upper
138	100		
108	81.1	52.1	78.1#
65	117.1	115.0	172.6

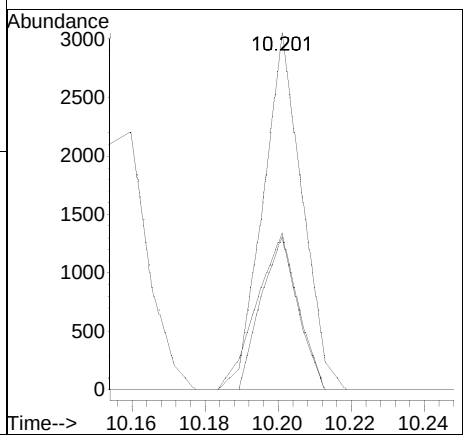


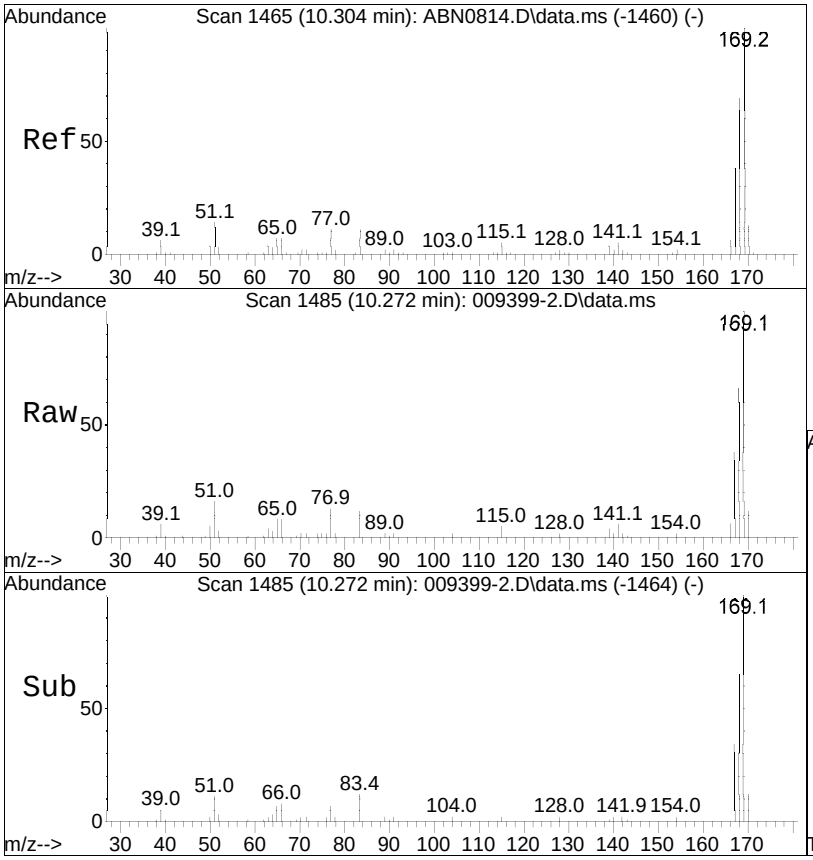


#76
4,6-Dinitro-o-cresol
Concen: 1.64 ug/ml
RT: 10.201 min Scan# 1473
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:198 Resp: 2277

Ion	Ratio	Lower	Upper
198	100		
51	46.3	76.0	114.0#
105	40.1	45.6	68.4#

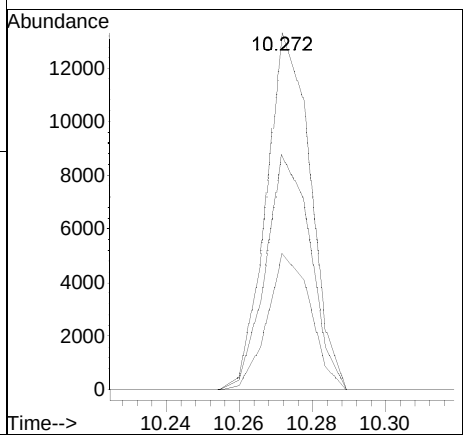


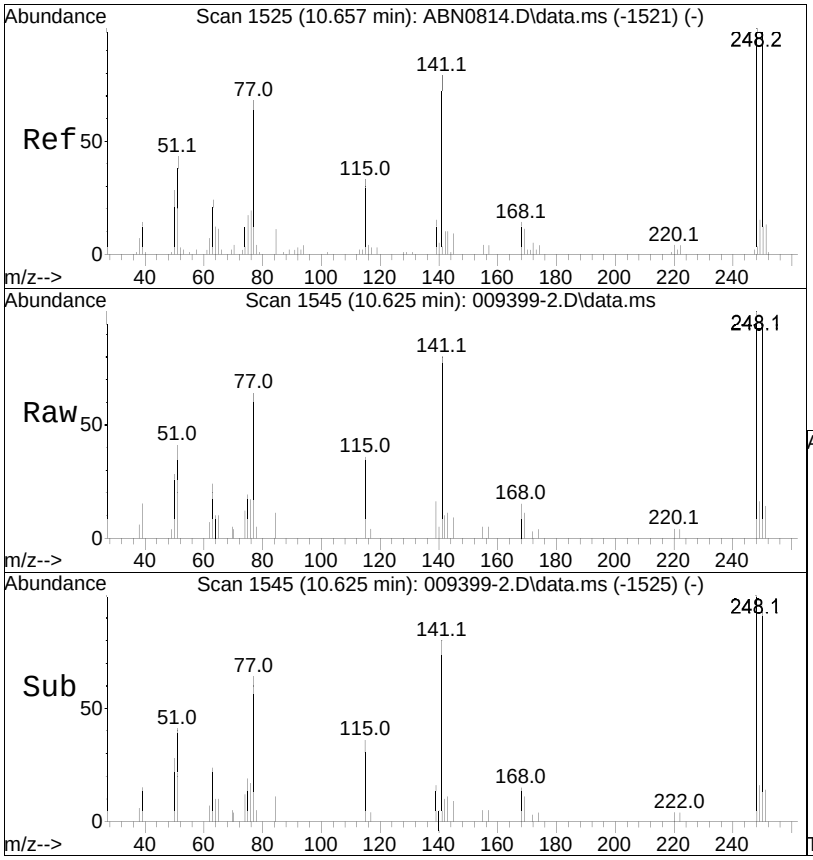


#77
NDPA/DPA
Concen: 1.34 ug/ml
RT: 10.272 min Scan# 1485
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:169 Resp: 11142

Ion	Ratio	Lower	Upper
169	100		
168	67.0	54.0	81.0
167	37.5	28.6	42.8

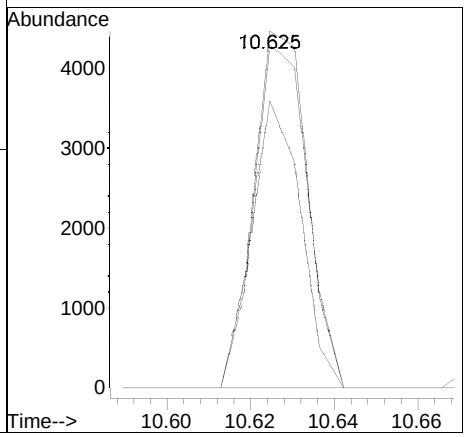


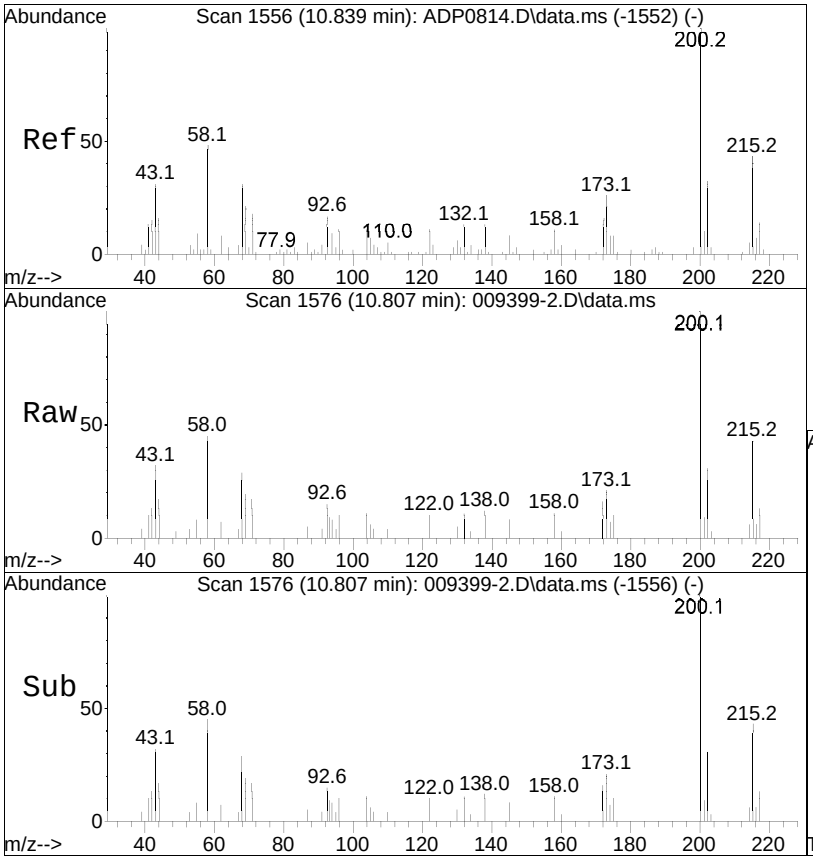


#80
4-Bromophenyl phenyl ether
Concen: 1.44 ug/ml
RT: 10.625 min Scan# 1545
Delta R.T. -0.006 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:248 Resp: 3964

Ion	Ratio	Lower	Upper
248	100		
141	73.9	76.6	114.8#
250	95.8	77.3	115.9

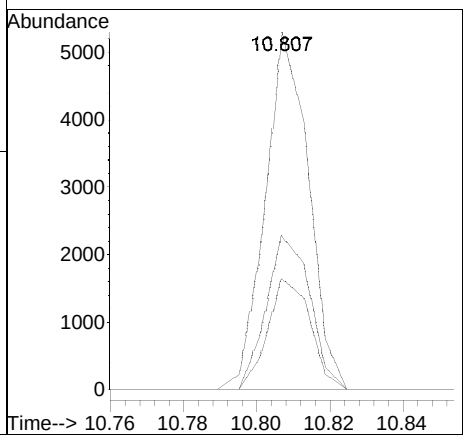


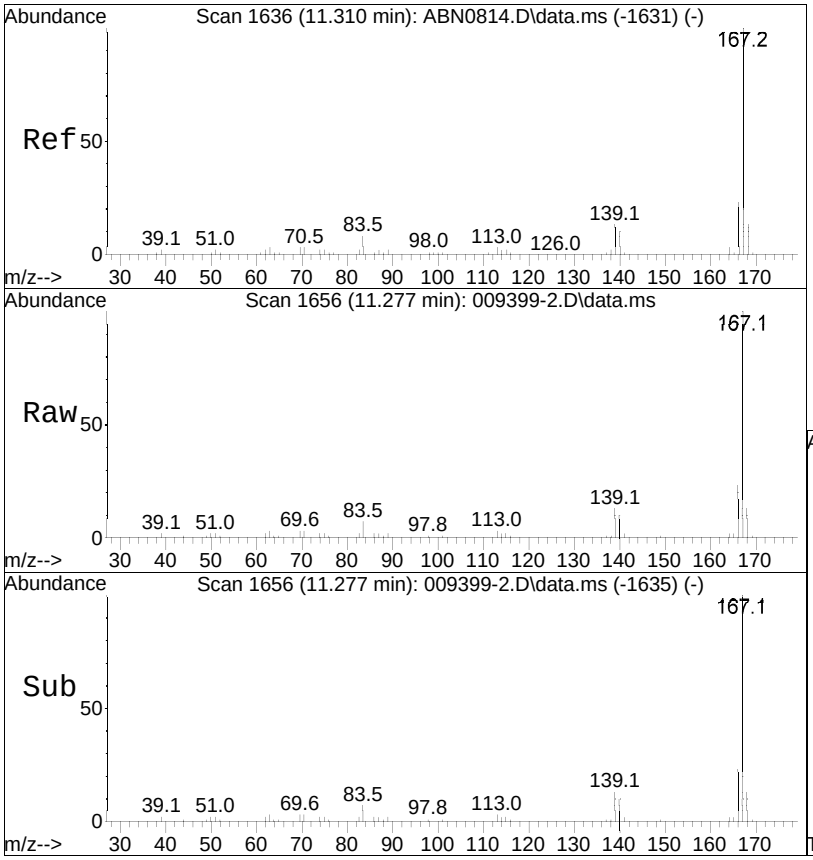


#87
Atrazine
Concen: 1.91 ug/ml
RT: 10.807 min Scan# 1576
Delta R.T. -0.006 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:200 Resp: 4307

Ion	Ratio	Lower	Upper
200	100		
202	30.7	25.8	38.6
215	43.6	40.2	60.4

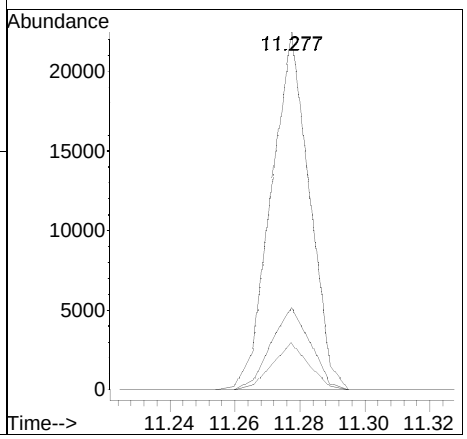


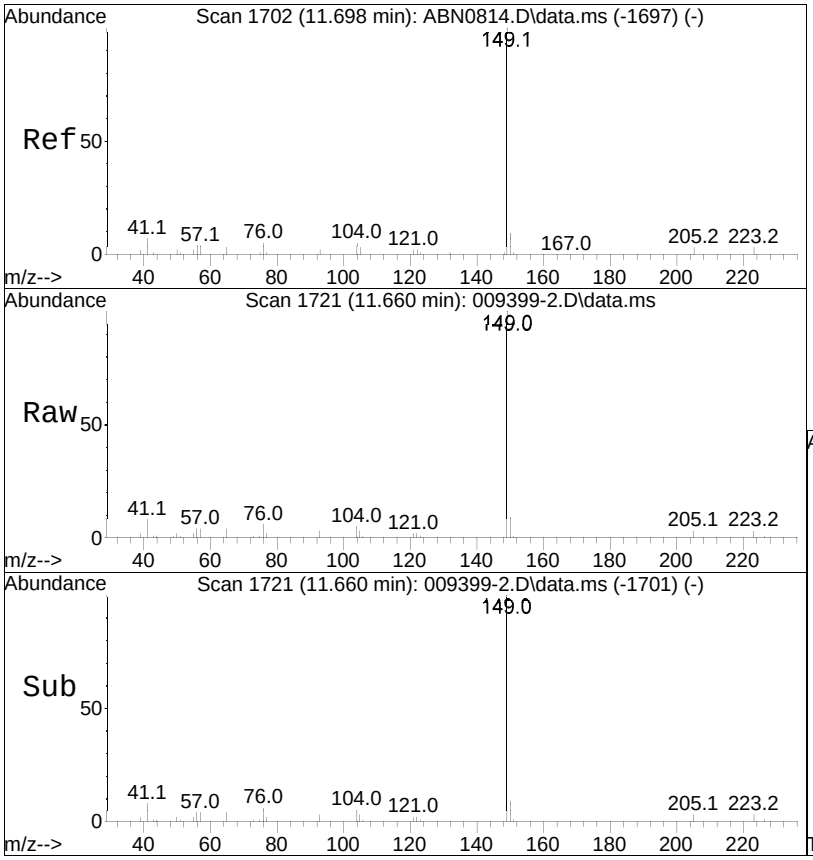


#91
Carbazole
Concen: 1.22 ug/ml
RT: 11.277 min Scan# 1656
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:167 Resp: 18128

Ion	Ratio	Lower	Upper
167	100		
168	12.8	10.6	15.8
166	23.8	17.4	26.0

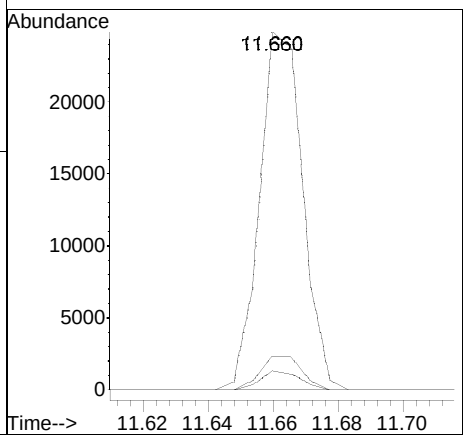


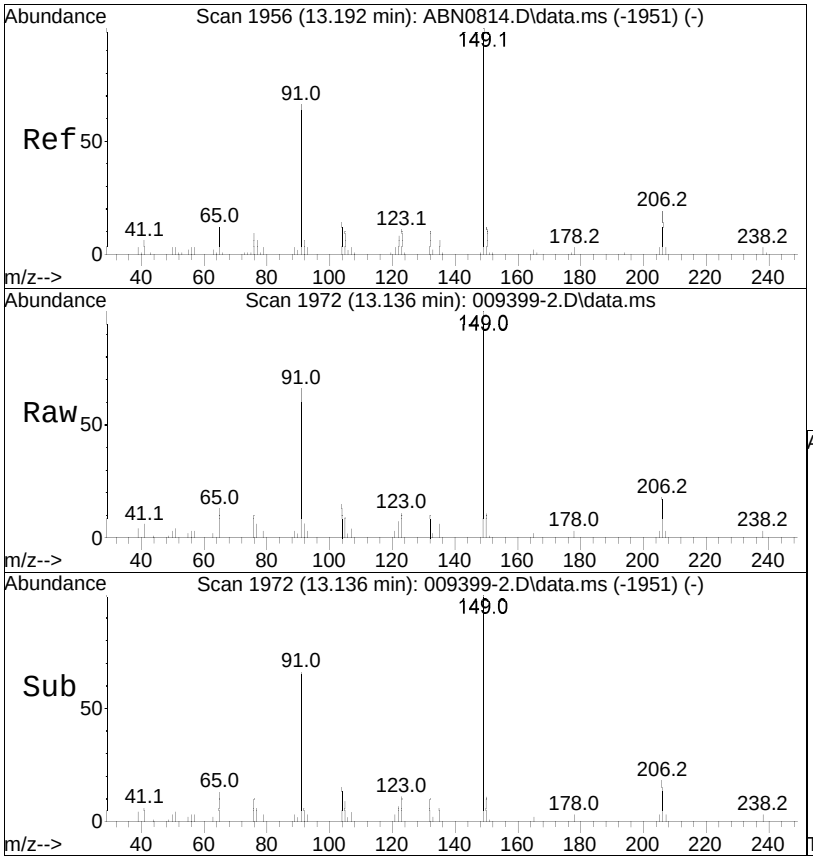


#92
Di-n-butylphthalate
Concen: 1.38 ug/ml
RT: 11.660 min Scan# 1721
Delta R.T. -0.006 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:149 Resp: 22636

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.0	10.6
104	5.0	4.5	6.7

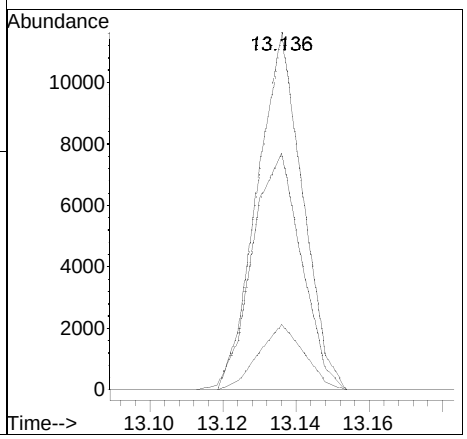


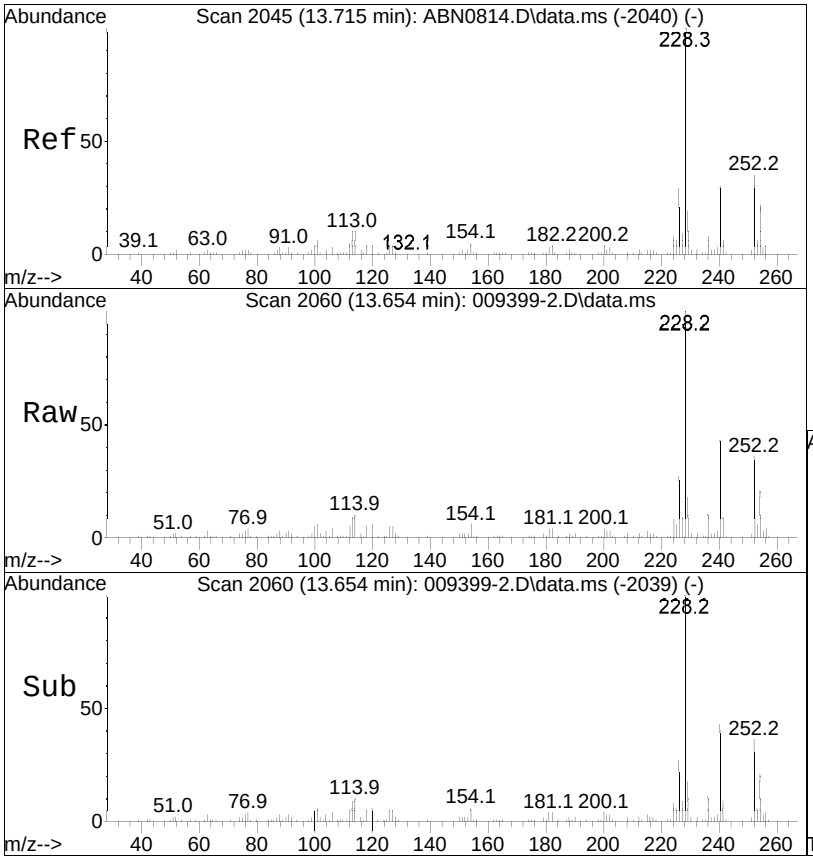


#97
Butyl benzyl phthalate
Concen: 1.53 ug/ml
RT: 13.136 min Scan# 1972
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:149 Resp: 9927

Ion	Ratio	Lower	Upper
149	100		
91	72.1	63.3	94.9
206	18.5	13.9	20.9

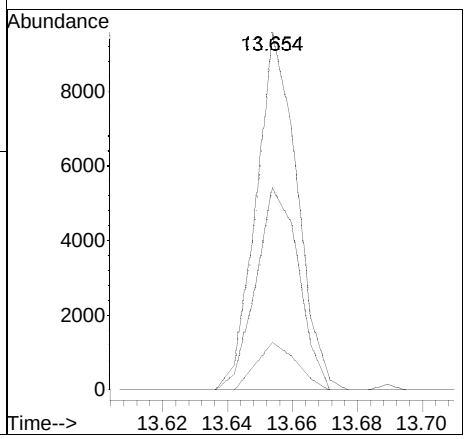


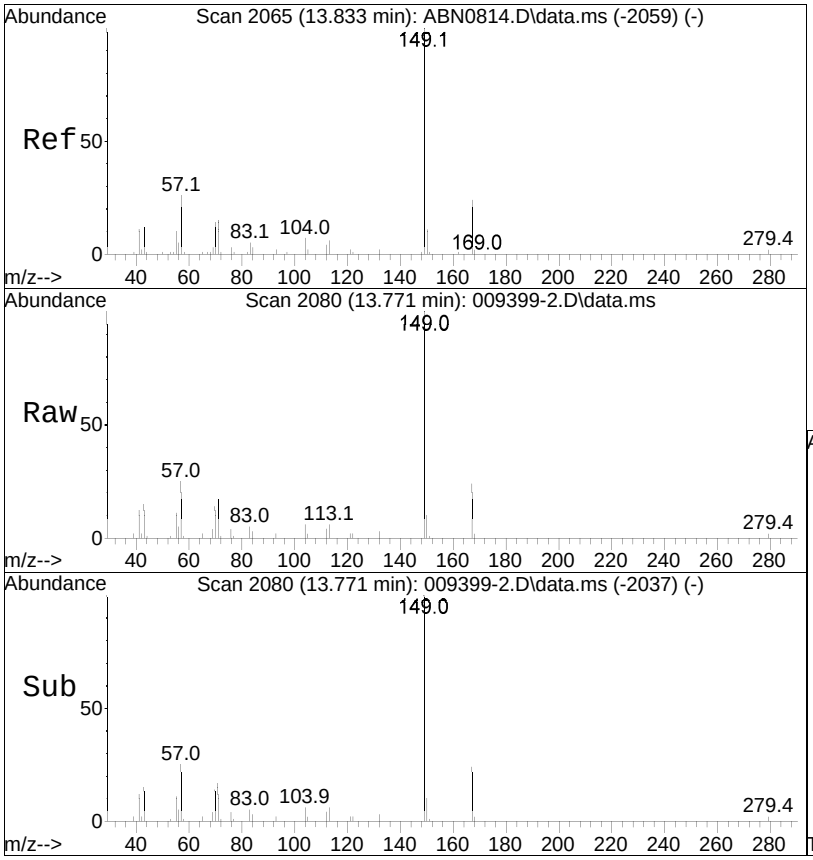


#106
3,3'-Dichlorobenzidine
Concen: 1.24 ug/ml
RT: 13.654 min Scan# 2060
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:252 Resp: 8292

Ion	Ratio	Lower	Upper
252	100		
126	13.2	14.5	21.7#
254	59.1	51.2	76.8

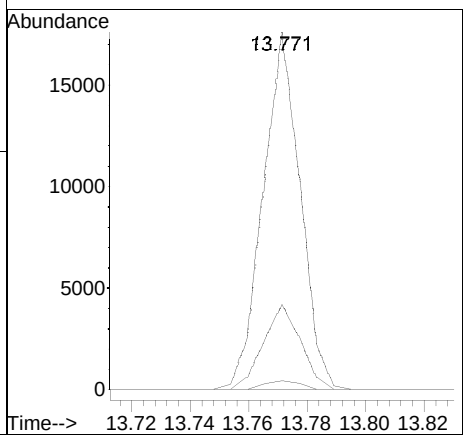


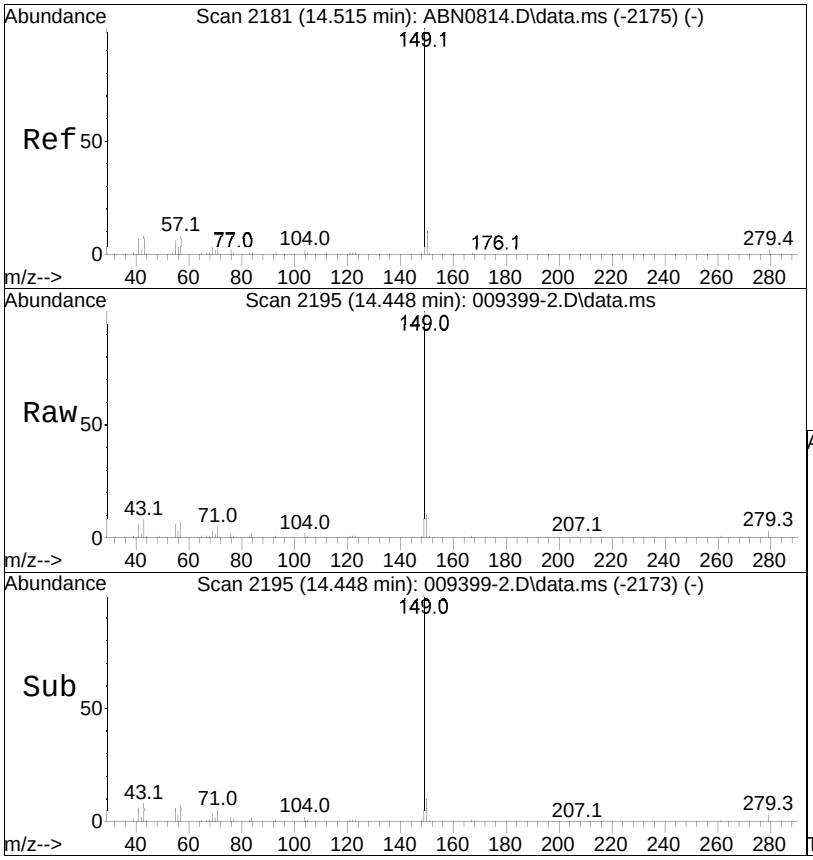


#108
Bis(2-ethylhexyl)phthalate
Concen: 1.48 ug/ml
RT: 13.771 min Scan# 2080
Delta R.T. 0.000 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:149 Resp: 15370

Ion	Ratio	Lower	Upper
149	100		
167	24.0	22.1	33.1
279	0.0	3.0	4.4#

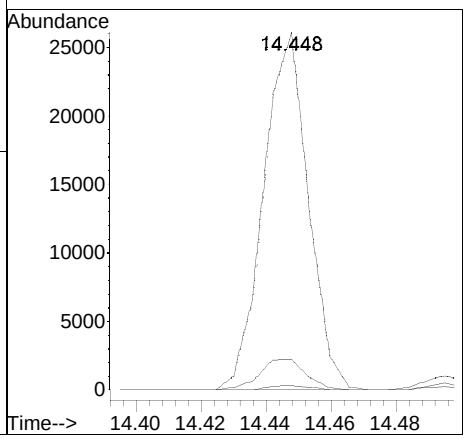




#109
Di-n-octylphthalate
Concen: 1.59 ug/ml
RT: 14.448 min Scan# 2195
Delta R.T. 0.006 min
Lab File: 009399-2.D
Acq: 17 Dec 2024 2:13 am

Tgt Ion:149 Resp: 24692

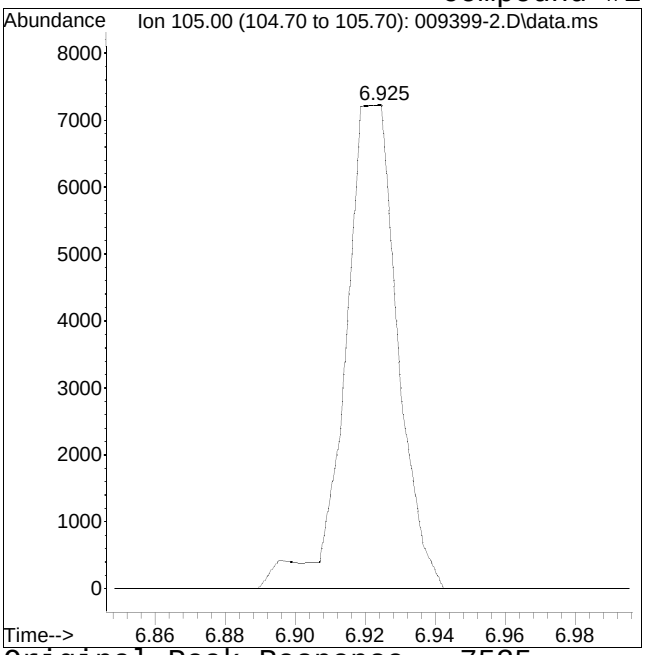
Ion	Ratio	Lower	Upper
149	100		
43	8.9	18.8	28.2#
167	0.0	1.3	1.9#



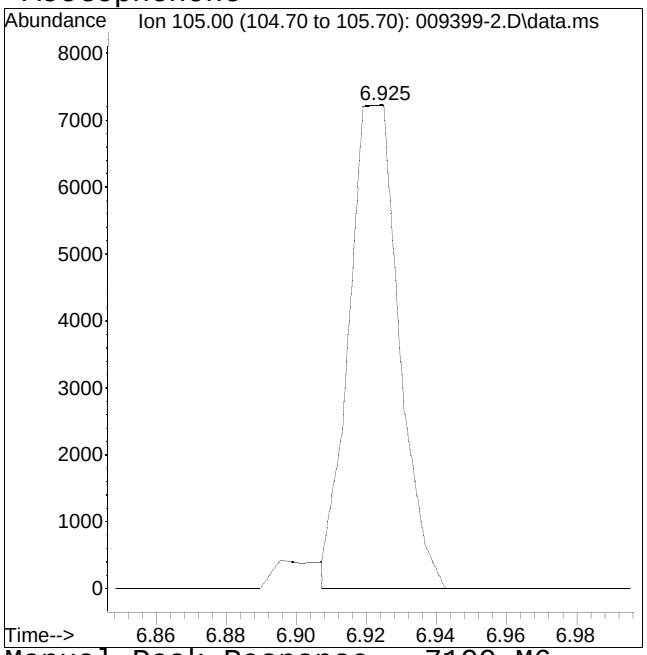
Manual Integration Report

Data Path : I:\8270\SV107\241216NRVT\ QMethod : FS240730SV107RVT.m
Data File : 009399-2.D Operator : SV107:ljg
Date Inj'd : 12/17/2024 2:13 am Instrument : SV107
Sample : WG2009399-2,32,,ASK Quant Date : 12/17/2024 2:32 am

Compound #29: Acetophenone



Original Peak Response = 7535



Manual Peak Response = 7109 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\241216NRVT\
Data File : 009399-3.D
Acq On : 17 Dec 2024 2:39 am
Operator : SV107:ljg
Sample : WG2009399-3,32,,ASK
Misc : WG2008657,WG2009399,ical21360
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 17 08:04:05 2024
Quant Method : I:\8270\SV107\241216NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:29:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\241216NRVT\ABN1216n.D
: 2 - I:\8270\SV107\241216NRVT\ADP1216n.D
: 3 - I:\8270\SV107\241216NRVT\AP91216n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.425	152	12774	4.000	ug/ml		0.00
Standard Area 1 = 13003			Recovery = 98.24%				
27) IS2_1,4-Dichlorobenzen...	6.425	152	12774	4.000	ug/ml		0.00
Standard Area 3 = 17952			Recovery = 71.16%				
32) IS3_1,4-Dichlorobenzen...	6.425	152	12774	4.000	ug/ml		0.00
Standard Area 2 = 20785			Recovery = 61.46%				
35) IS1_Naphthalene-d8	7.848	136	44857	4.000	ug/ml		0.00
Standard Area 1 = 46064			Recovery = 97.38%				
55) IS2_Naphthalene-d8	7.848	136	44857	4.000	ug/ml		0.00
Standard Area 3 = 60982			Recovery = 73.56%				
63) IS1_Acenaphthene-d10	9.607	164	27256	4.000	ug/ml		0.00
Standard Area 1 = 29301			Recovery = 93.02%				
83) IS2_Acenaphthene-d10	9.607	164	27256	4.000	ug/ml		0.00
Standard Area 3 = 35583			Recovery = 76.60%				
86) IS3_Acenaphthene-d10	9.607	164	27256	4.000	ug/ml		0.00
Standard Area 2 = 40587			Recovery = 67.15%				
88) IS1_Phenanthrene-d10	11.036	188	54385	4.000	ug/ml		0.00
Standard Area 1 = 62102			Recovery = 87.57%				
100) IS3_Phenanthrene-d10	11.036	188	54385	4.000	ug/ml	#	0.00
Standard Area 2 = 86632			Recovery = 62.78%				
104) IS1_Chrysene-d12	13.666	240	50423	4.000	ug/ml	#	0.00
Standard Area 1 = 57573			Recovery = 87.58%				
113) IS1_Perylene-d12	15.130	264	55044	4.000	ug/ml		0.00
Standard Area 1 = 60333			Recovery = 91.23%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.548	112	3400	0.986	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 49.30%				
7) Phenol-d6	6.060	99	3127	0.693	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 34.65%				
19) Nitrobenzene-d5	7.084	82	2848	0.652	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 65.20%				
46) 2-Fluorobiphenyl	8.966	172	6497	0.644	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 64.40%				
79) 2,4,6-Tribromophenol	10.372	330	1470	1.152	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 57.60%				

Data Path : I:\8270\SV107\241216NRVT\
Data File : 009399-3.D
Acq On : 17 Dec 2024 2:39 am
Operator : SV107:ljg
Sample : WG2009399-3,32,,ASK
Misc : WG2008657,WG2009399,ical21360
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 17 08:04:05 2024
Quant Method : I:\8270\SV107\241216NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:29:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\241216NRVT\ABN1216n.D
: 2 - I:\8270\SV107\241216NRVT\ADP1216n.D
: 3 - I:\8270\SV107\241216NRVT\AP91216n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	12.613	244	8842	0.688	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 68.80%			
Target Compounds						Qvalue
6) 2-Chlorophenol	6.166	128	4929	1.192	ug/ml	96
8) Phenol	6.078	94	3527	0.705	ug/ml	98
14) Bis(2-chloroisopropyl)...	6.807	45	7403	1.433	ug/ml#	57
15) 2-Methylphenol	6.807	108	3913	1.088	ug/ml	96
17) n-Nitrosodi-n-propylamine	6.954	70	3990	1.449	ug/ml#	81
18) 3-Methylphenol/4-Methy...	6.990	108	4180	1.055	ug/ml	92
20) Nitrobenzene	7.101	77	5721	1.366	ug/ml	95
21) Isophorone	7.384	82	10813	1.445	ug/ml	95
22) 2-Nitrophenol	7.460	139	2762	1.298	ug/ml#	91
23) 2,4-Dimethylphenol	7.560	107	2124	0.615	ug/ml	94
24) Bis(2-chloroethoxy)met...	7.648	93	6790	1.342	ug/ml#	96
25) 2,4-Dichlorophenol	7.725	162	4808	1.275	ug/ml	94
28) Benzaldehyde	5.854	105	4333	1.185	ug/ml	99
29) Acetophenone	6.925	105	7844M6	1.209	ug/ml	
38) 4-Chloroaniline	7.954	65	1298	0.916	ug/ml#	1
40) p-Chloro-m-cresol	8.478	107	4691	1.479	ug/ml	99
43) Hexachlorocyclopentadiene	8.760	237	2156	0.908	ug/ml#	92
44) 2,4,6-Trichlorophenol	8.883	196	3860	1.471	ug/ml	99
45) 2,4,5-Trichlorophenol	8.913	196	4224	1.515	ug/ml	98
48) 2-Nitroaniline	9.178	138	3461	1.512	ug/ml	93
51) Dimethyl phthalate	9.378	163	14397	1.488	ug/ml#	98
53) 2,6-Dinitrotoluene	9.425	165	2746	1.450	ug/ml	90
60) Caprolactam	8.278	55	829	0.980	ug/ml#	32
61) 1,2,4,5-Tetrachloroben...	8.760	216	6161	1.237	ug/ml#	96
62) Biphenyl	9.060	154	13553	1.167	ug/ml	99
64) 3-Nitroaniline	9.578	138	2735	1.254	ug/ml#	94
66) 2,4-Dinitrophenol	9.678	184	819	1.480	ug/ml#	63
67) Dibenzofuran	9.807	168	16052	1.254	ug/ml	99
68) 2,4-Dinitrotoluene	9.813	165	4088	1.469	ug/ml	97
69) 4-Nitrophenol	9.772	65	1654	0.959	ug/ml#	87
72) Diethyl phthalate	10.072	149	13765	1.522	ug/ml	98
74) 4-Chlorophenyl phenyl ...	10.160	204	6711	1.381	ug/ml	92
75) 4-Nitroaniline	10.166	138	2991	1.371	ug/ml#	82

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\241216NRVT\
Data File : 009399-3.D
Acq On : 17 Dec 2024 2:39 am
Operator : SV107:ljg
Sample : WG2009399-3,32,,ASK
Misc : WG2008657,WG2009399,ical21360
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 17 08:04:05 2024
Quant Method : I:\8270\SV107\241216NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:29:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\241216NRVT\ABN1216n.D
: 2 - I:\8270\SV107\241216NRVT\ADP1216n.D
: 3 - I:\8270\SV107\241216NRVT\AP91216n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	4,6-Dinitro-o-cresol	10.201	198	2292	1.707	ug/ml#	63
77)	NDPA/DPA	10.272	169	10663	1.342	ug/ml	97
80)	4-Bromophenyl phenyl e...	10.625	248	3637	1.387	ug/ml	89
87)	Atrazine	10.807	200	3984	1.858	ug/ml	96
91)	Carbazole	11.277	167	19159	1.418	ug/ml	99
92)	Di-n-butylphthalate	11.666	149	22357	1.503	ug/ml	100
97)	Butyl benzyl phthalate	13.136	149	9848	1.629	ug/ml	94
106)	3,3'-Dichlorobenzidine	13.654	252	7966	1.342	ug/ml#	96
108)	Bis(2-ethylhexyl)phtha...	13.771	149	14391	1.569	ug/ml#	93
109)	Di-n-octylphthalate	14.448	149	23013	1.663	ug/ml#	73

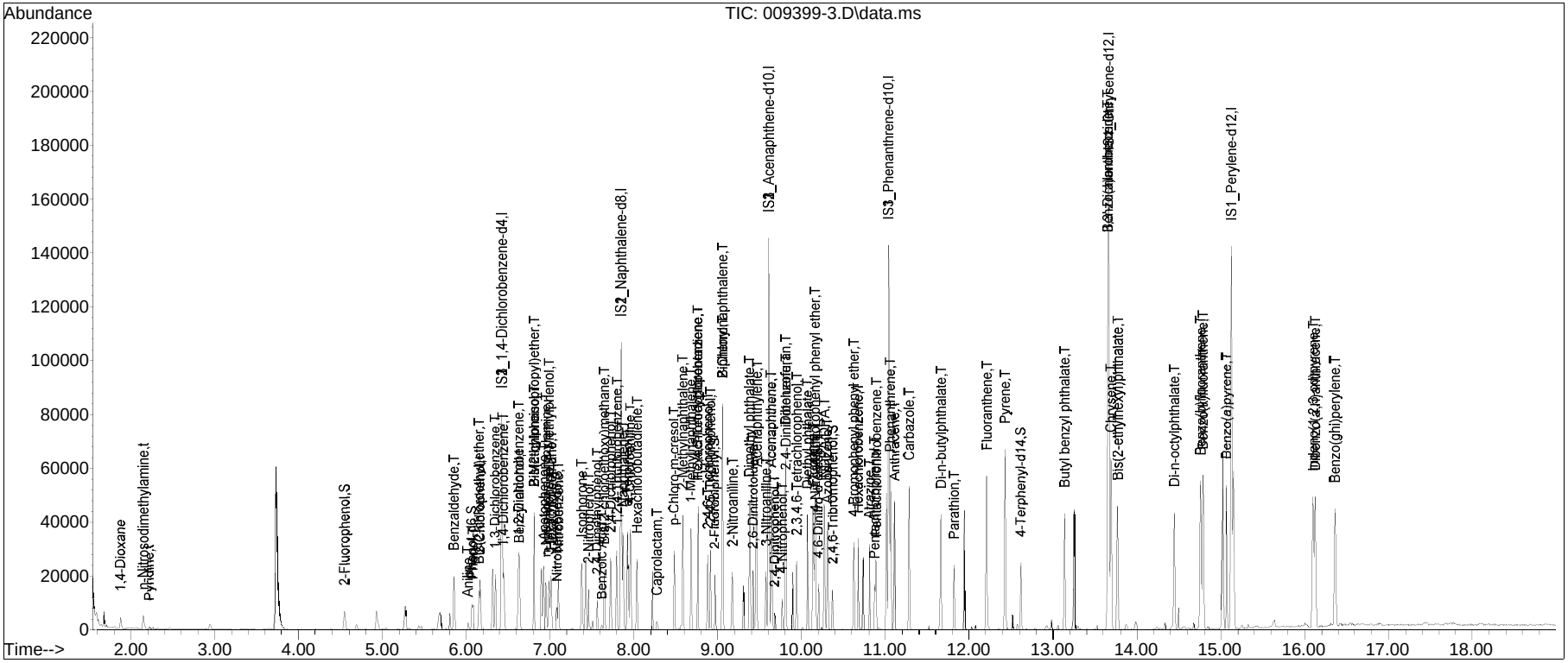
(#) = qualifier out of range (m) = manual integration (+) = signals summed

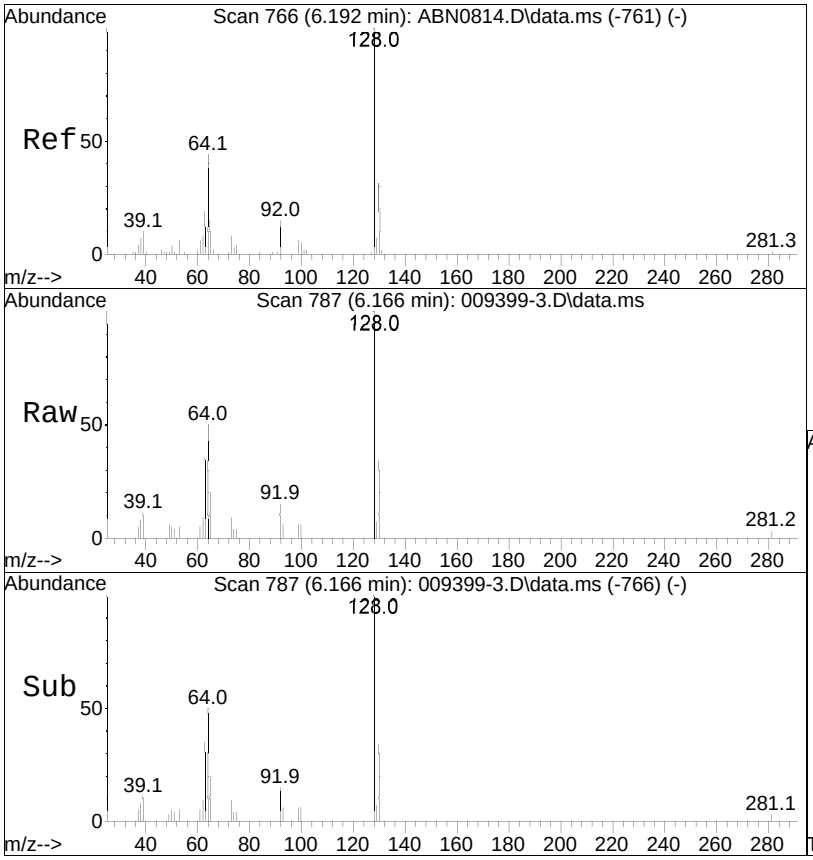
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\241216NRVT\
Data File : 009399-3.D
Acq On : 17 Dec 2024 2:39 am
Operator : SV107:ljg
Sample : WG2009399-3,32,,ASK
Misc : WG2008657,WG2009399,ical21360
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 17 08:04:05 2024
Quant Method : I:\8270\SV107\241216NRVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:29:49 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MANRVT\AP91216n.D•

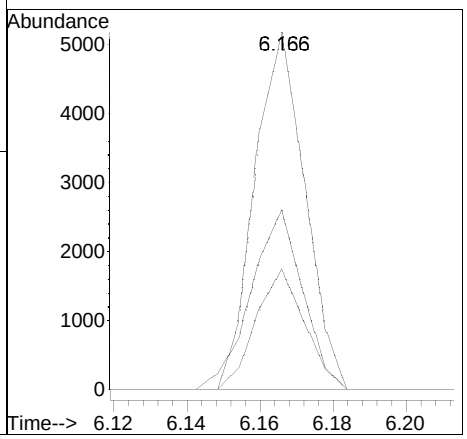


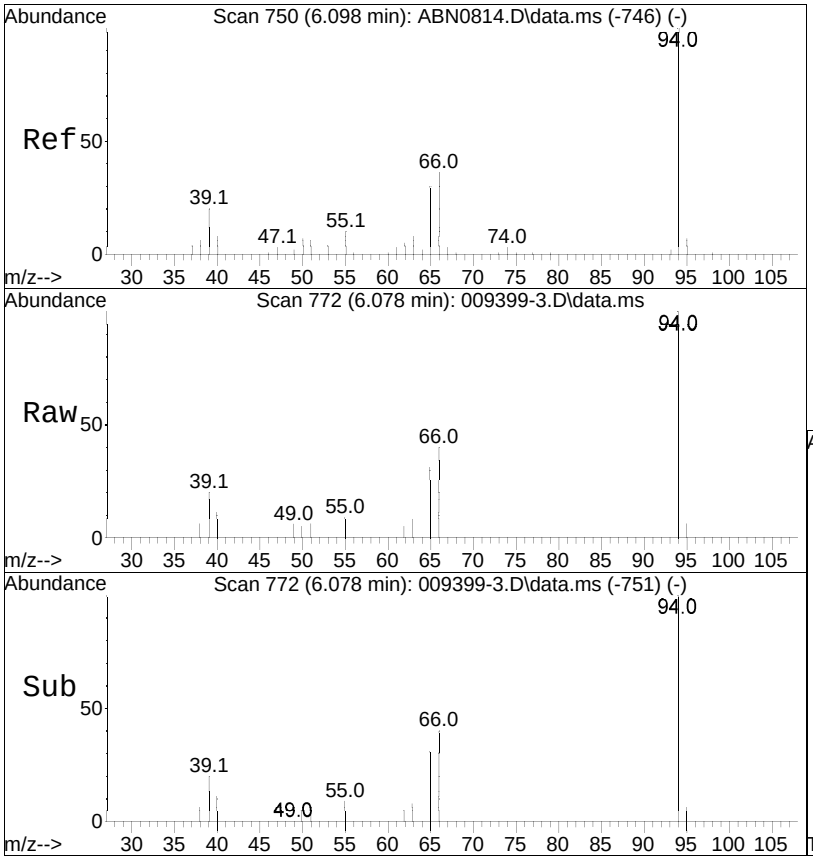


#6
2-Chlorophenol
Concen: 1.19 ug/ml
RT: 6.166 min Scan# 787
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:128 Resp: 4929

Ion	Ratio	Lower	Upper
128	100		
64	51.7	45.1	67.7
130	32.8	26.2	39.4

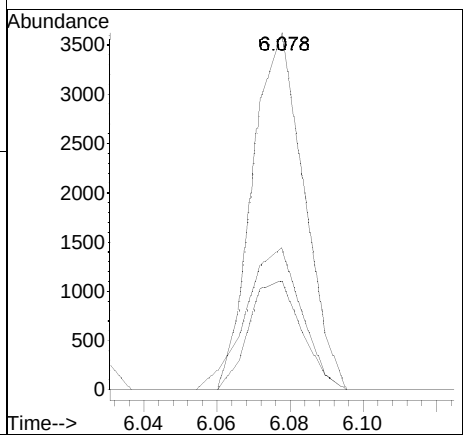


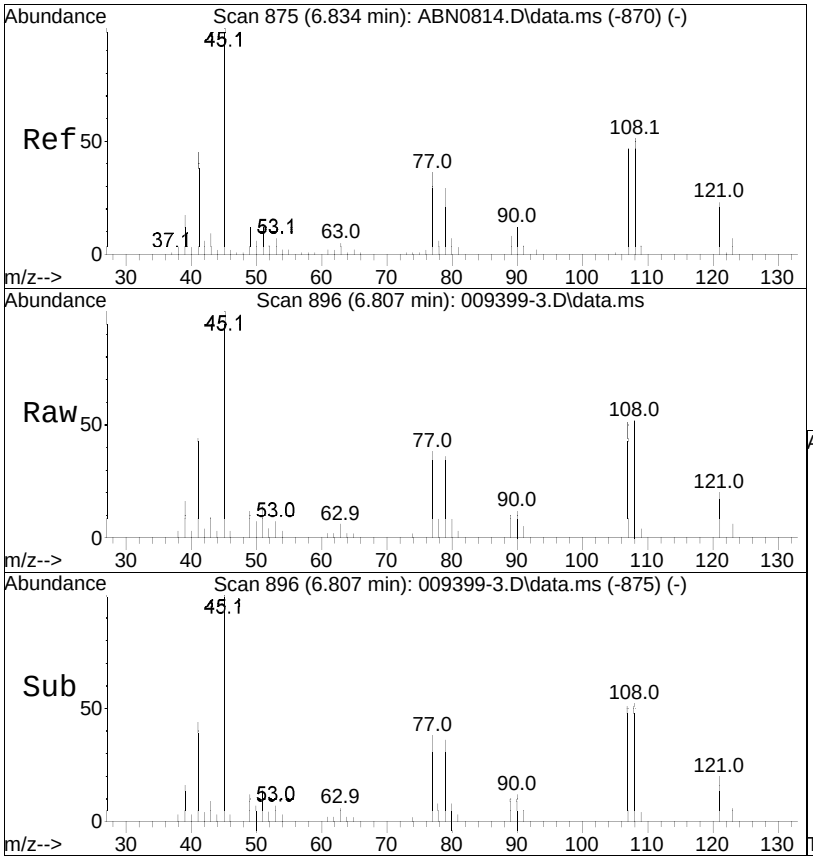


#8
Phenol
Concen: 0.71 ug/ml
RT: 6.078 min Scan# 772
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion: 94 Resp: 3527

Ion	Ratio	Lower	Upper
94	100		
65	31.4	26.0	39.0
66	43.2	33.8	50.8

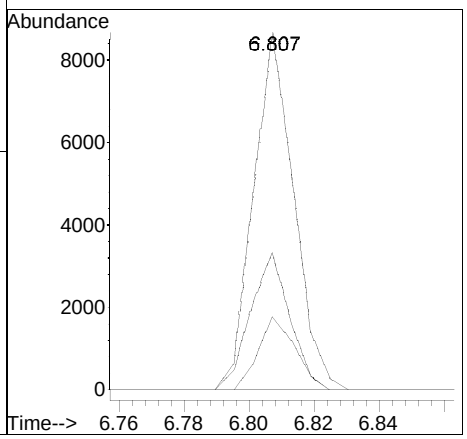


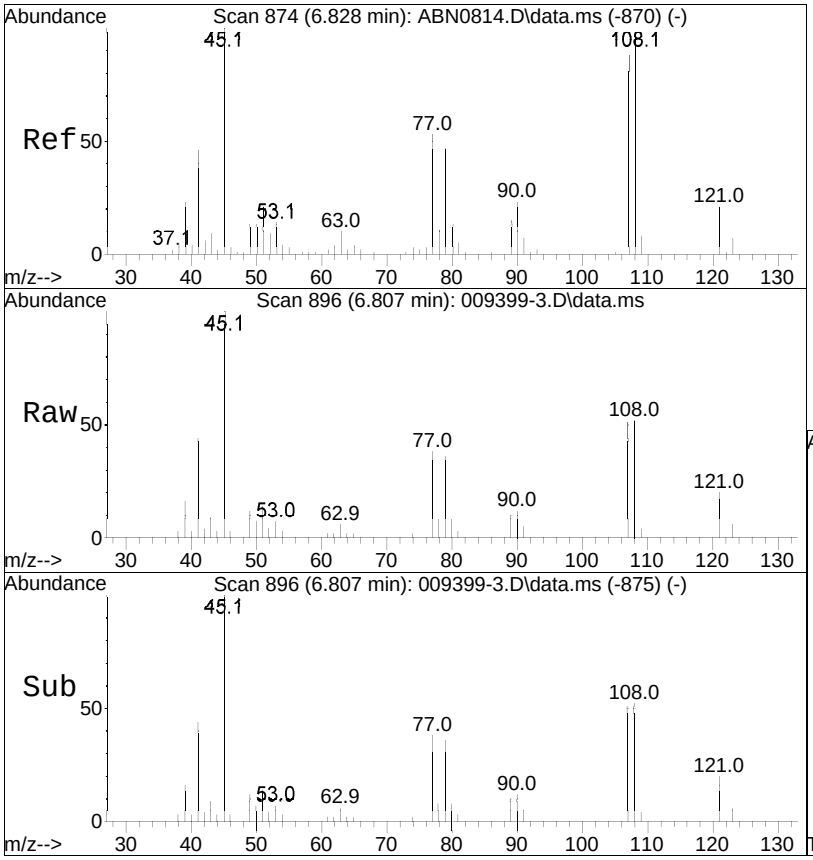


#14
Bis(2-chloroisopropyl)ether
Concen: 1.43 ug/ml
RT: 6.807 min Scan# 896
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion: 45 Resp: 7403

Ion	Ratio	Lower	Upper
45	100		
121	18.8	9.8	14.6#
77	37.6	6.1	9.1#

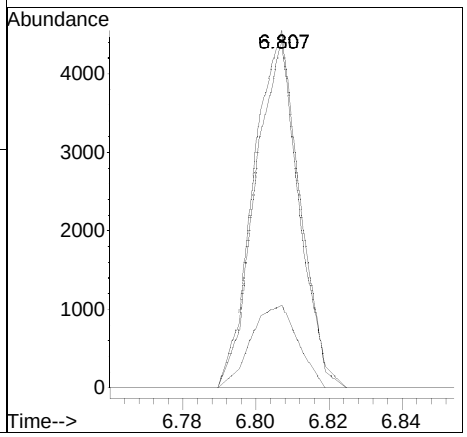


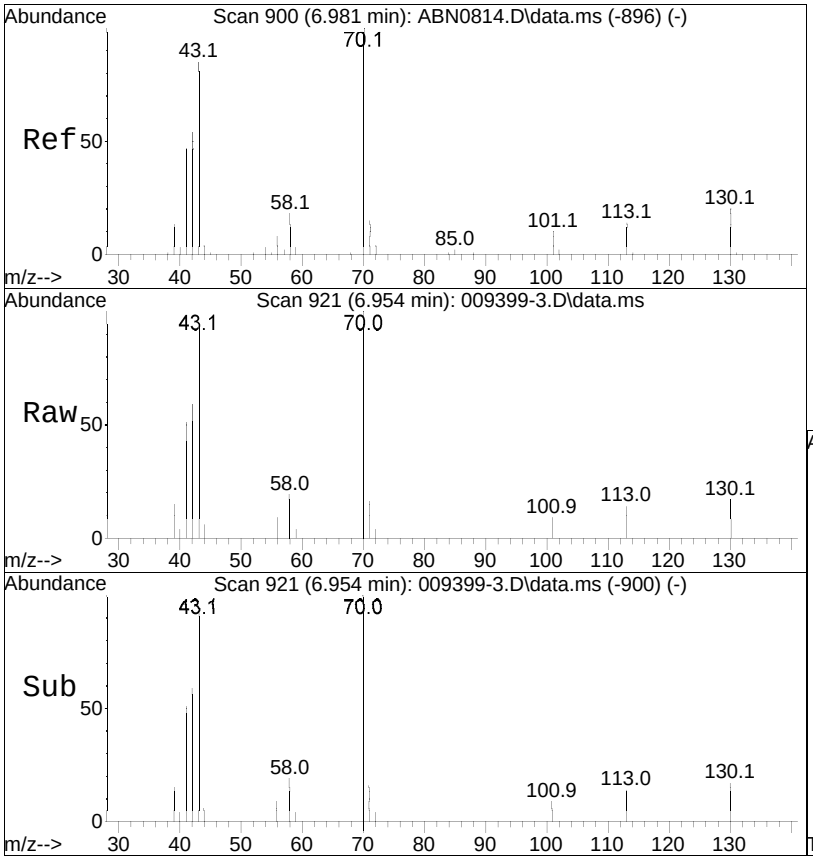


#15
2-Methylphenol
Concen: 1.09 ug/ml
RT: 6.807 min Scan# 896
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:108 Resp: 3913

Ion	Ratio	Lower	Upper
108	100		
107	93.2	70.7	106.1
90	23.9	18.7	28.1

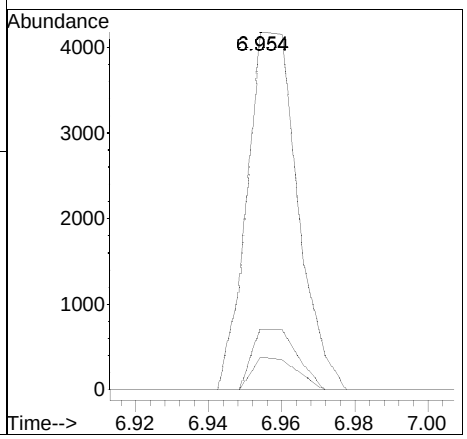


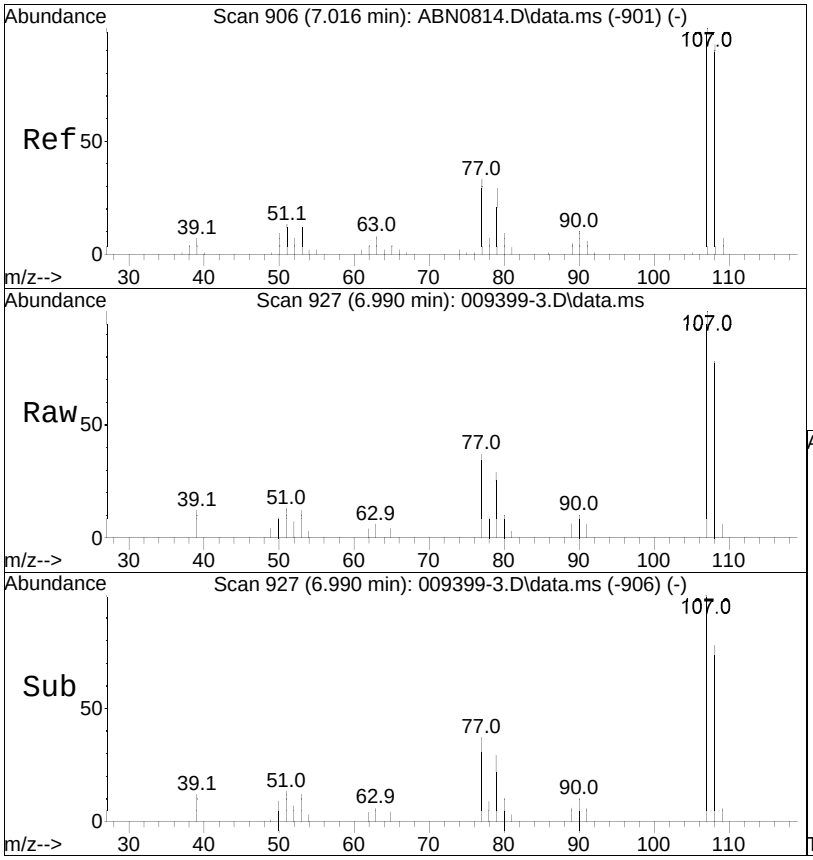


#17
n-Nitrosodi-n-propylamine
Concen: 1.45 ug/ml
RT: 6.954 min Scan# 921
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion: 70 Resp: 3990

Ion	Ratio	Lower	Upper
70	100		
130	15.1	18.2	27.4#
101	0.0	7.8	11.8#

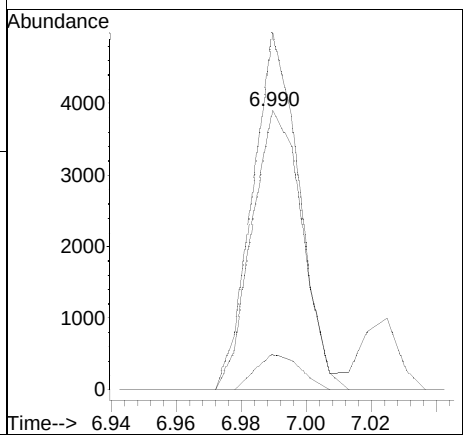


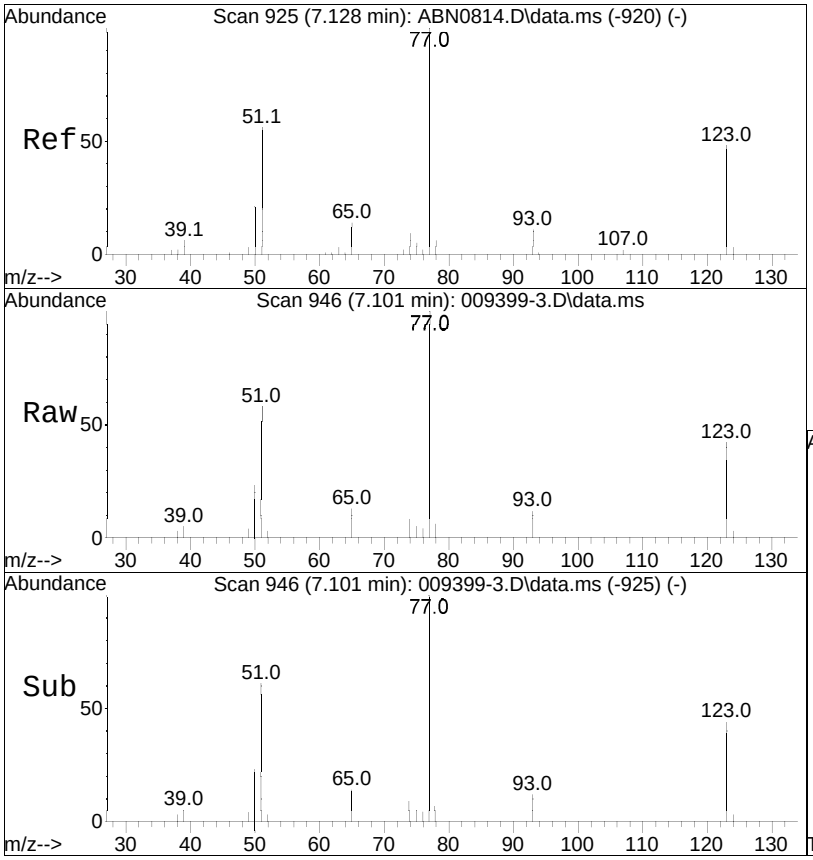


#18
3-Methylphenol/4-Methylphenol
Concen: 1.05 ug/ml
RT: 6.990 min Scan# 927
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:108 Resp: 4180

Ion	Ratio	Lower	Upper
108	100		
107	120.3	88.6	132.8
90	11.2	8.8	13.2

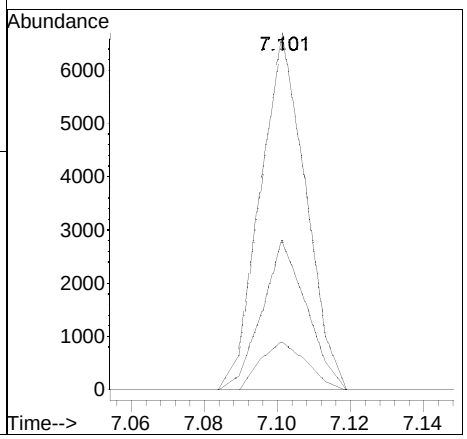


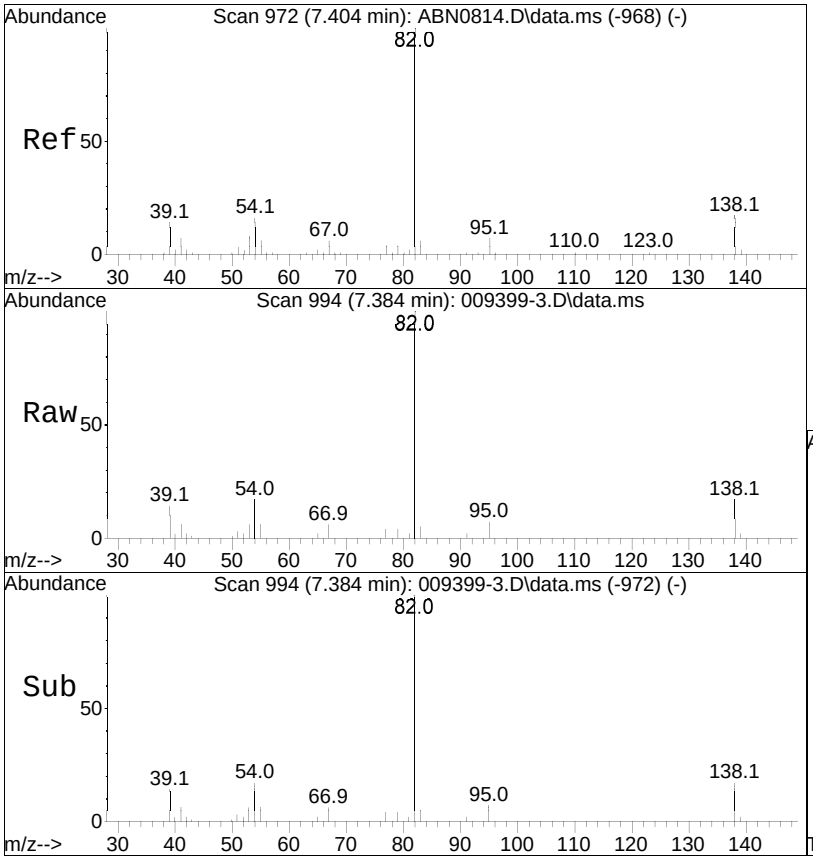


#20
Nitrobenzene
Concen: 1.37 ug/ml
RT: 7.101 min Scan# 946
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion: 77 Resp: 5721

Ion	Ratio	Lower	Upper
77	100		
123	41.3	36.3	54.5
65	13.7	11.6	17.4

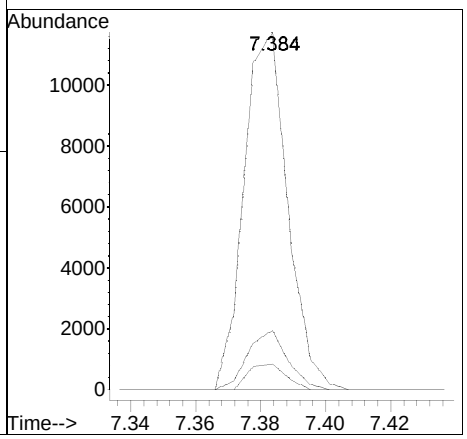


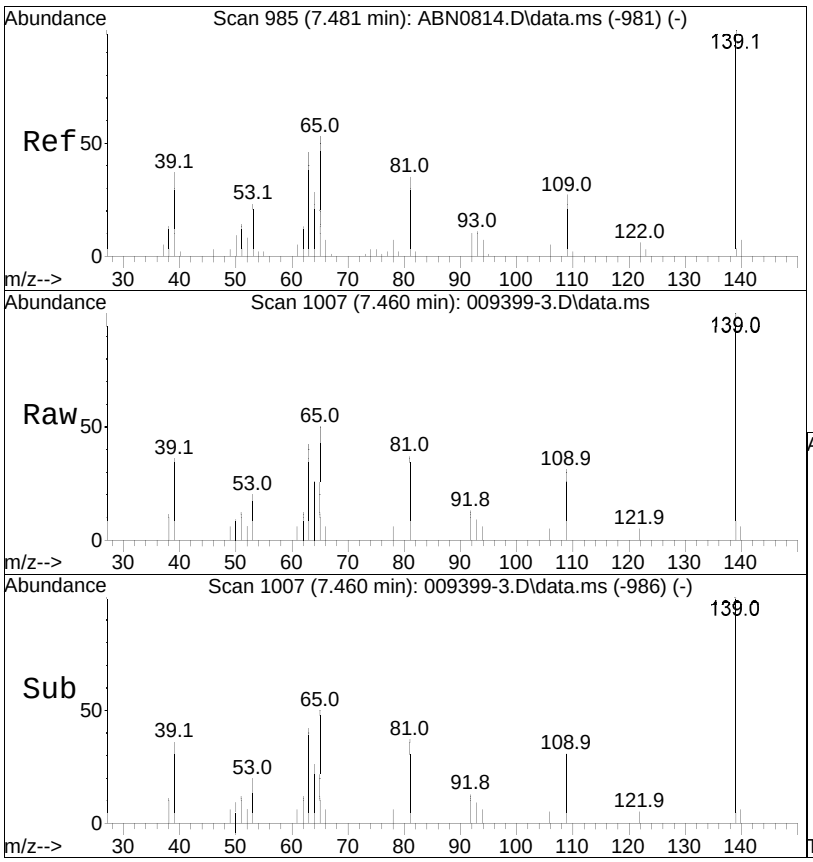


#21
Isophorone
Concen: 1.44 ug/ml
RT: 7.384 min Scan# 994
Delta R.T. 0.006 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion: 82 Resp: 10813

Ion	Ratio	Lower	Upper
82	100		
138	15.3	14.7	22.1
95	6.3	5.2	7.8

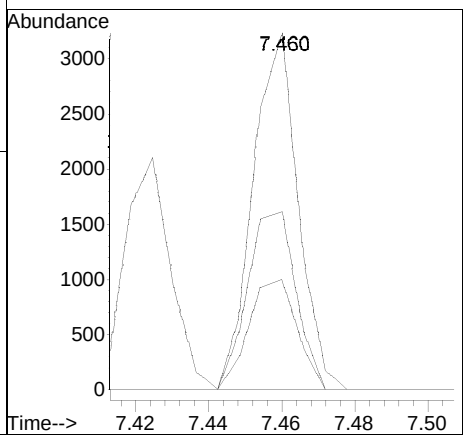


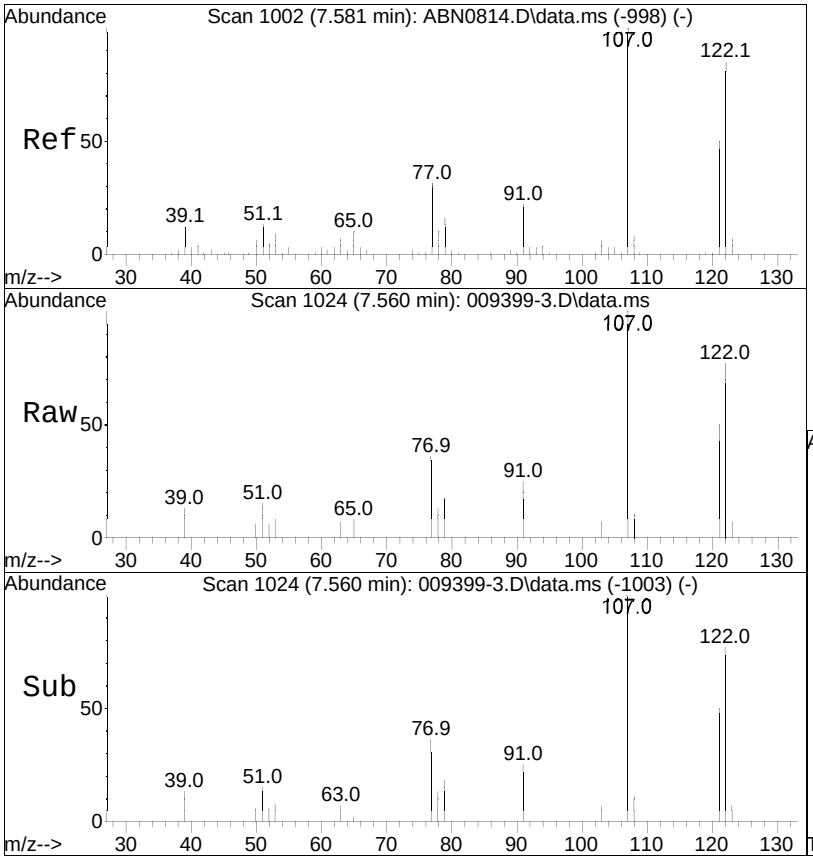


#22
2-Nitrophenol
Concen: 1.30 ug/ml
RT: 7.460 min Scan# 1007
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:139 Resp: 2762

Ion	Ratio	Lower	Upper
139	100		
109	33.3	19.4	29.0#
65	53.9	46.1	69.1

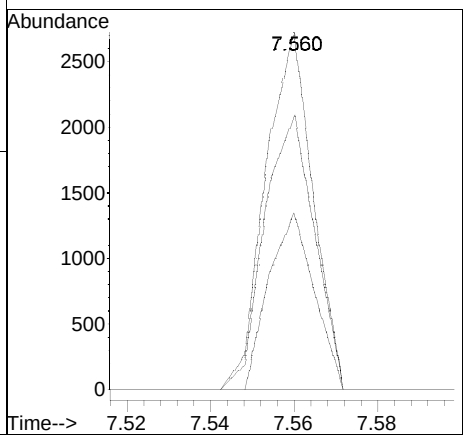


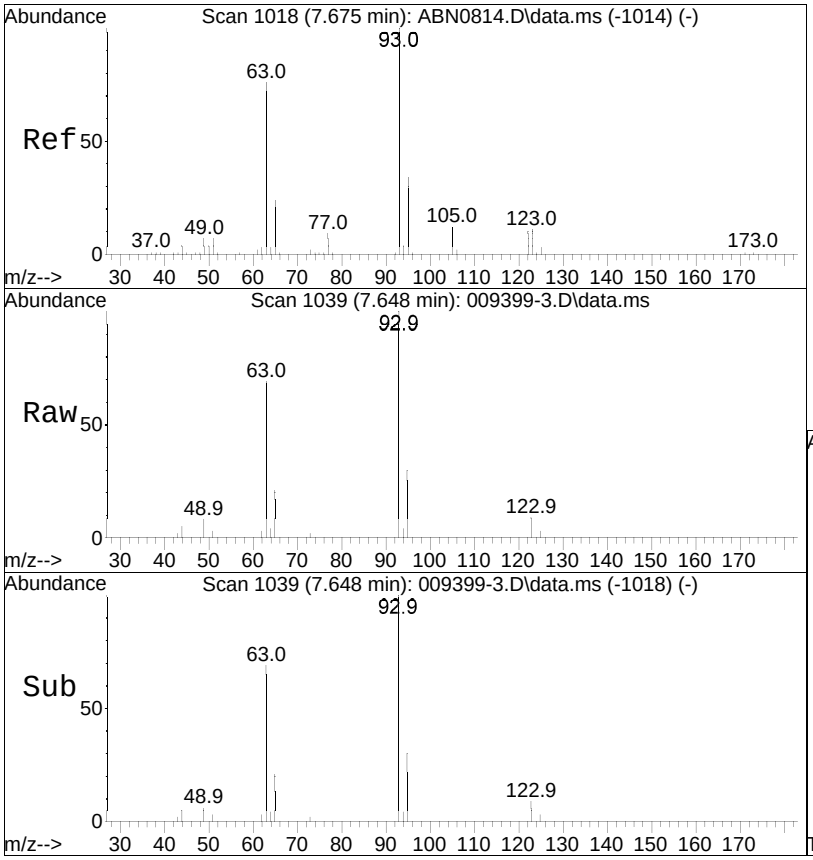


#23
2,4-Dimethylphenol
Concen: 0.62 ug/ml
RT: 7.560 min Scan# 1024
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:107 Resp: 2124

Ion	Ratio	Lower	Upper
107	100		
121	47.4	40.0	60.0
122	81.0	70.2	105.4

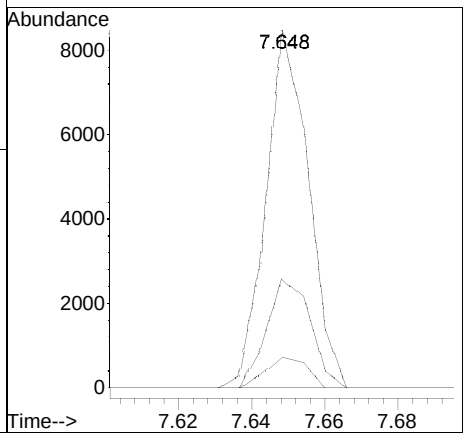


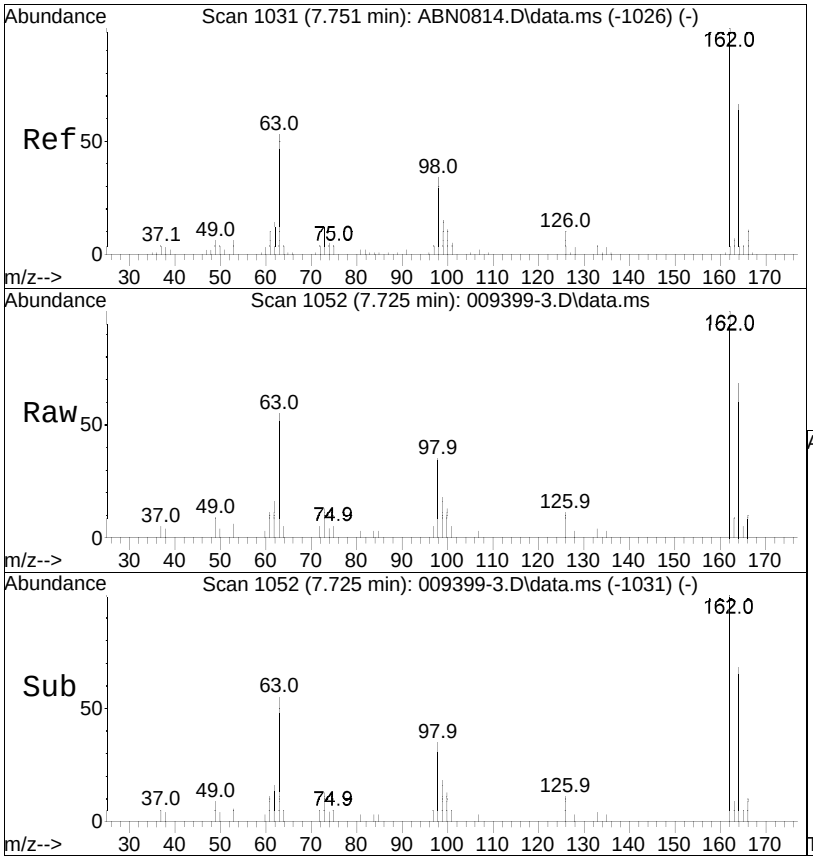


#24
Bis(2-chloroethoxy)methane
Concen: 1.34 ug/ml
RT: 7.648 min Scan# 1039
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion: 93 Resp: 6790

Ion	Ratio	Lower	Upper
93	100		
95	31.4	25.8	38.8
123	8.5	10.1	15.1#

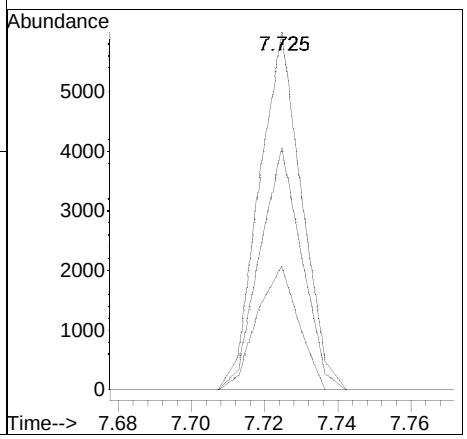


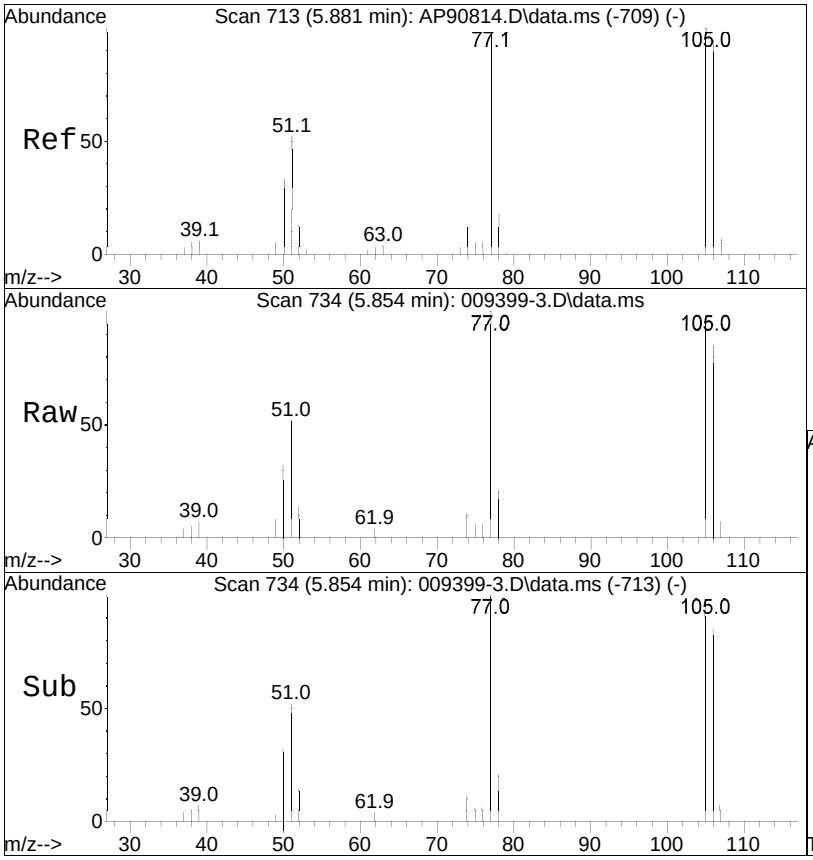


#25
2,4-Dichlorophenol
Concen: 1.28 ug/ml
RT: 7.725 min Scan# 1052
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:162 Resp: 4808

Ion	Ratio	Lower	Upper
162	100		
164	66.9	51.0	76.4
98	33.9	32.2	48.2

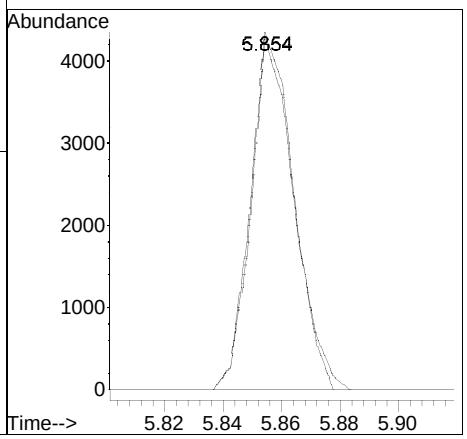


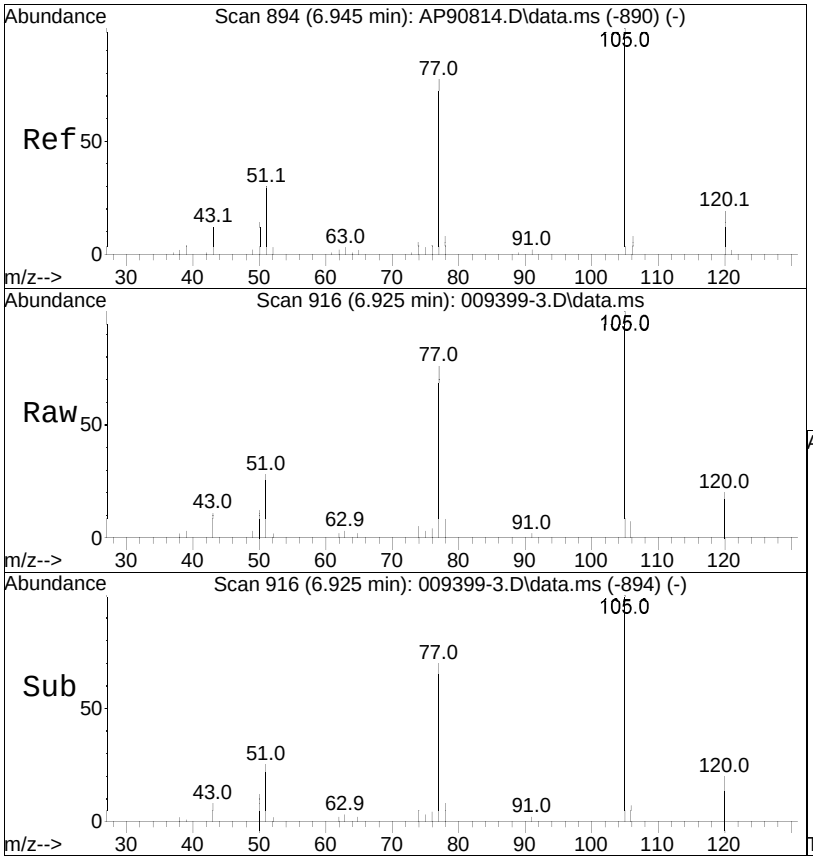


#28
Benzaldehyde
Concen: 1.19 ug/ml
RT: 5.854 min Scan# 734
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:105 Resp: 4333

Ion	Ratio	Lower	Upper
105	100		
77	101.8	82.2	123.4

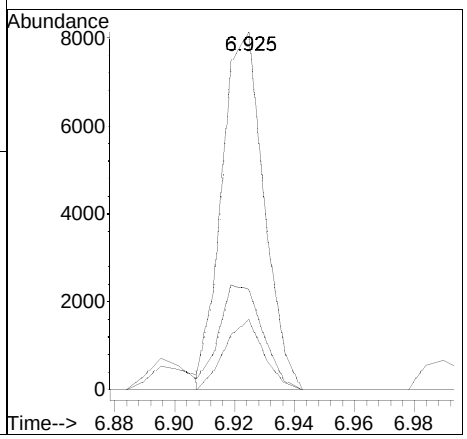


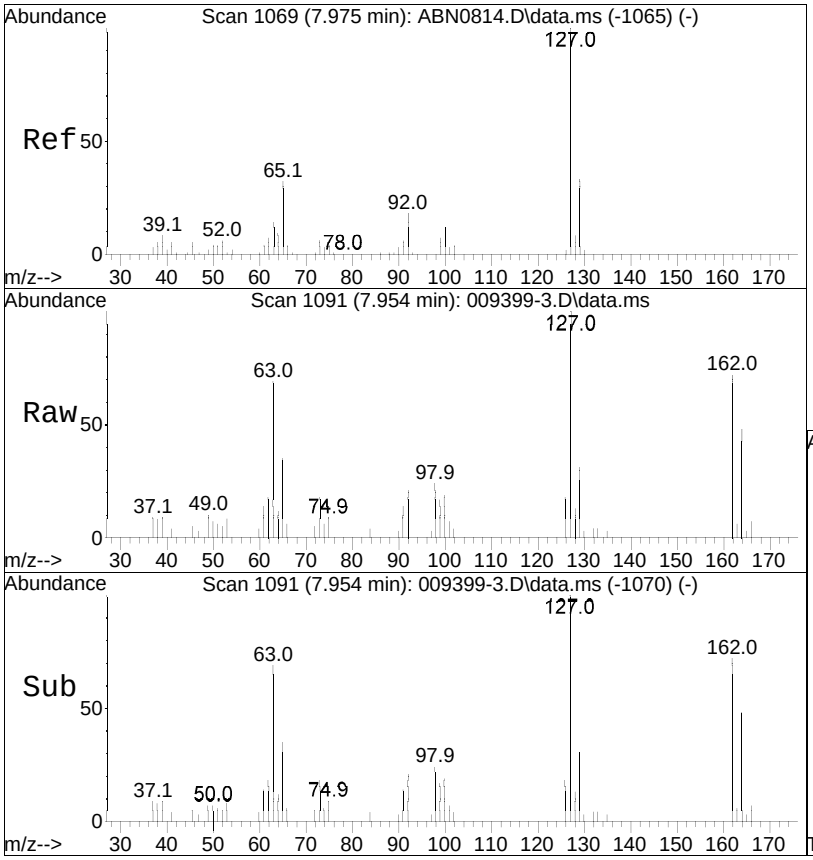


#29
Acetophenone
Concen: 1.21 ug/ml M6
RT: 6.925 min Scan# 916
Delta R.T. 0.006 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:105 Resp: 7844

Ion	Ratio	Lower	Upper
105	100		
120	18.4	20.5	30.7#
51	30.3	34.9	52.3#

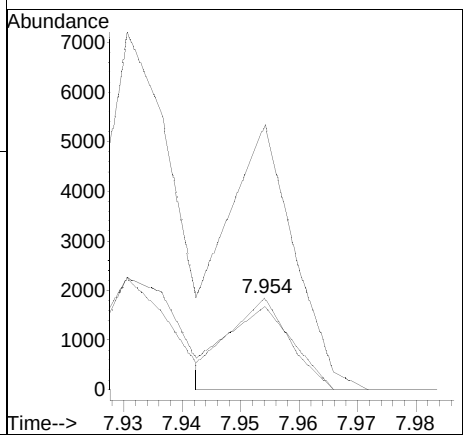


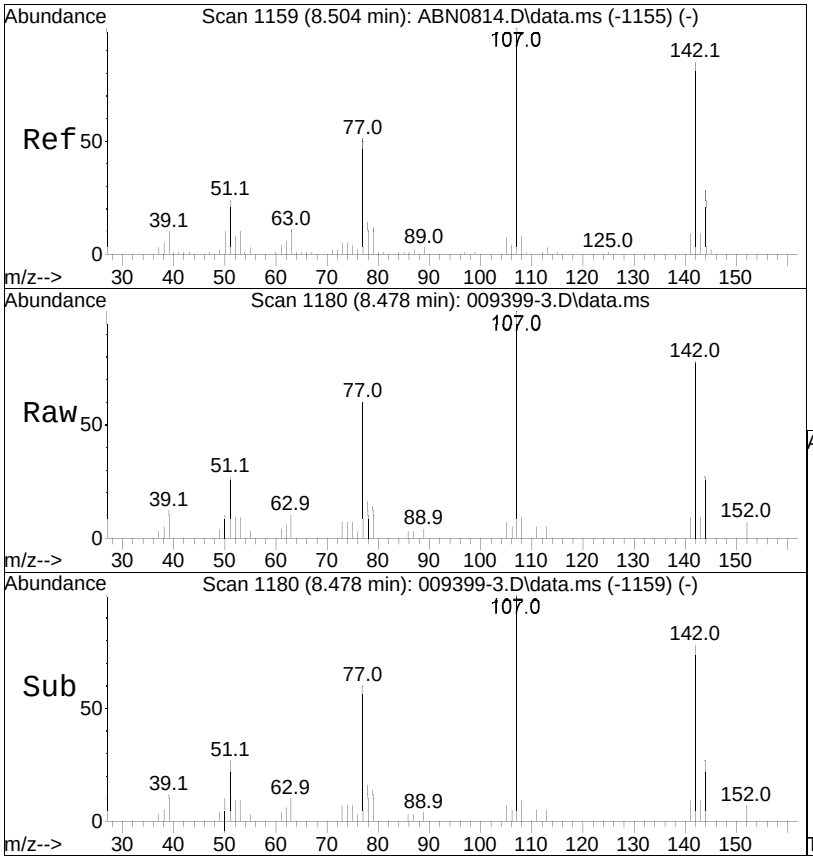


#38
4-Chloroaniline
Concen: 0.92 ug/ml
RT: 7.954 min Scan# 1091
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion: 65 Resp: 1298

Ion	Ratio	Lower	Upper
65	100		
127	0.0	237.6	356.4#
129	0.0	76.3	114.5#

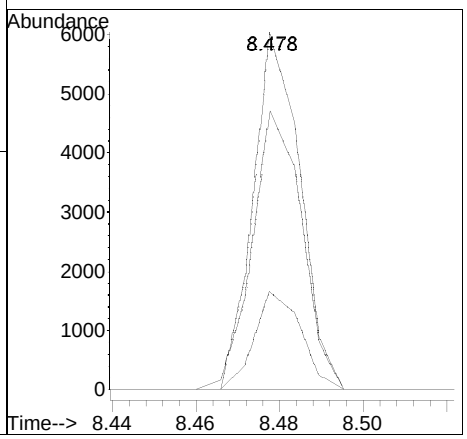


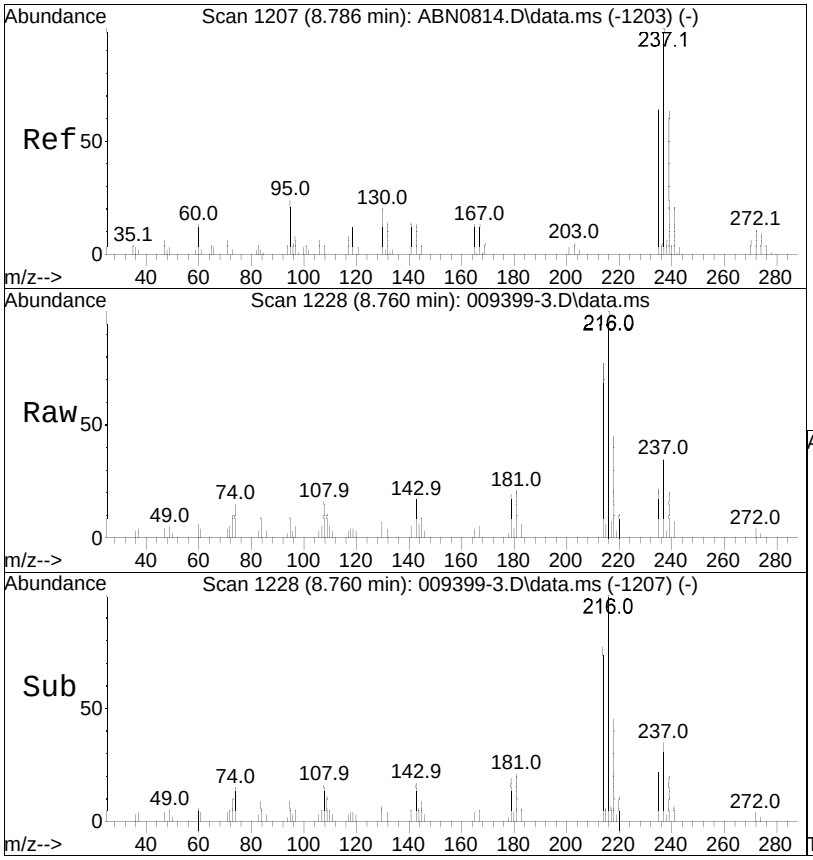


#40
p-Chloro-m-cresol
Concen: 1.48 ug/ml
RT: 8.478 min Scan# 1180
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:107 Resp: 4691

Ion	Ratio	Lower	Upper
107	100		
144	27.3	20.9	31.3
142	82.4	66.1	99.1

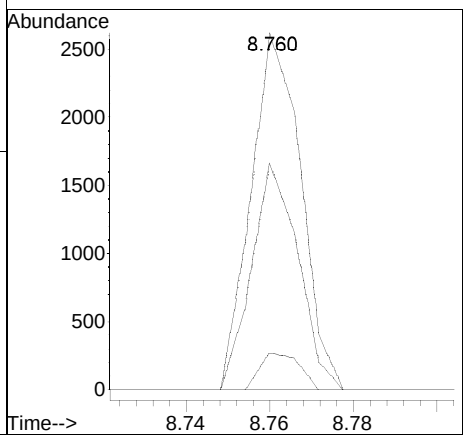


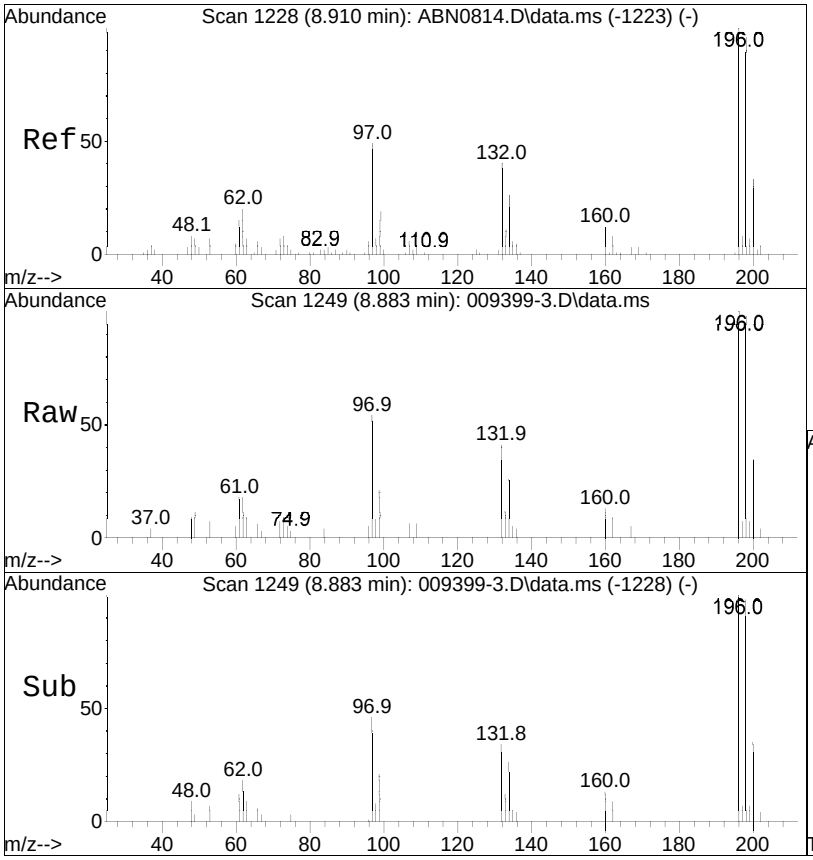


#43
Hexachlorocyclopentadiene
Concen: 0.91 ug/ml
RT: 8.760 min Scan# 1228
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:237 Resp: 2156

Ion	Ratio	Lower	Upper
237	100		
235	59.4	49.7	74.5
272	0.0	9.8	14.6#

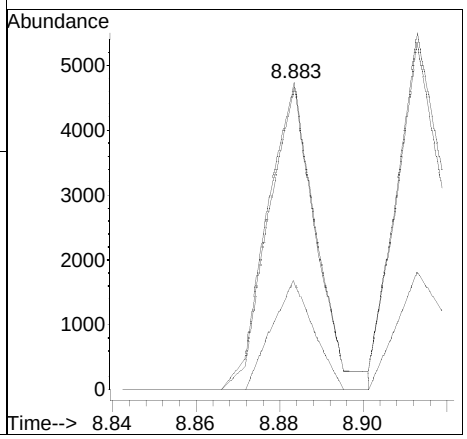


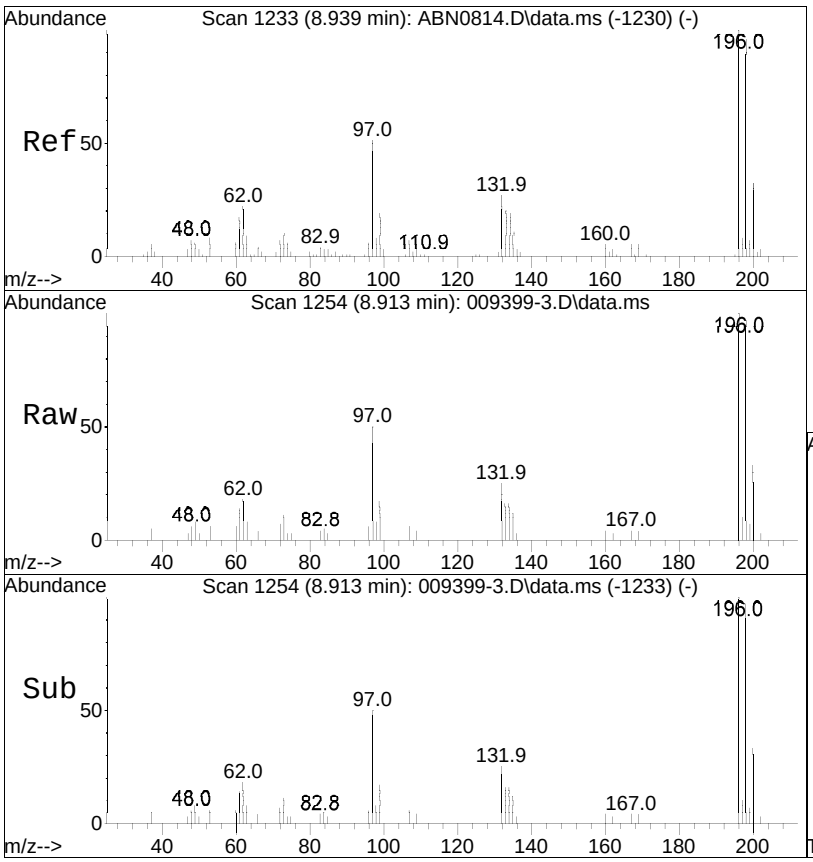


#44
2,4,6-Trichlorophenol
Concen: 1.47 ug/ml
RT: 8.883 min Scan# 1249
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:196 Resp: 3860

Ion	Ratio	Lower	Upper
196	100		
198	95.7	77.5	116.3
200	30.2	23.8	35.6

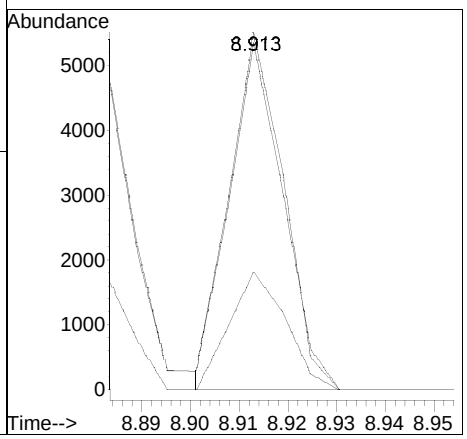


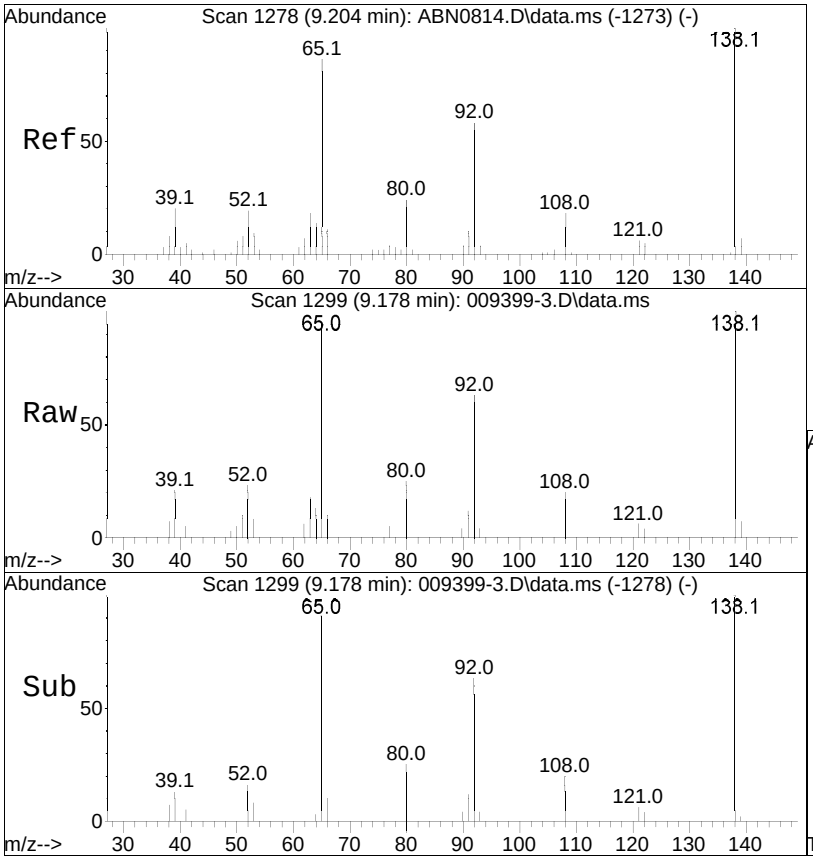


#45
2,4,5-Trichlorophenol
Concen: 1.51 ug/ml
RT: 8.913 min Scan# 1254
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:196 Resp: 4224

Ion	Ratio	Lower	Upper
196	100		
200	34.4	25.4	38.0
198	96.7	78.0	117.0

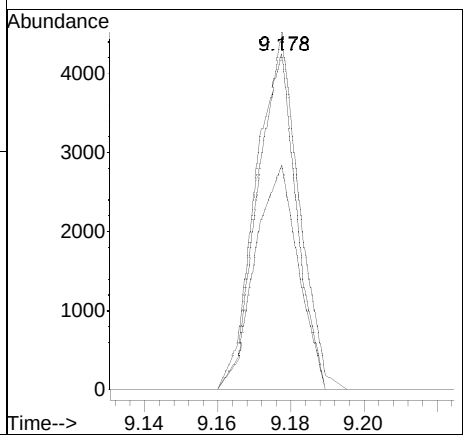


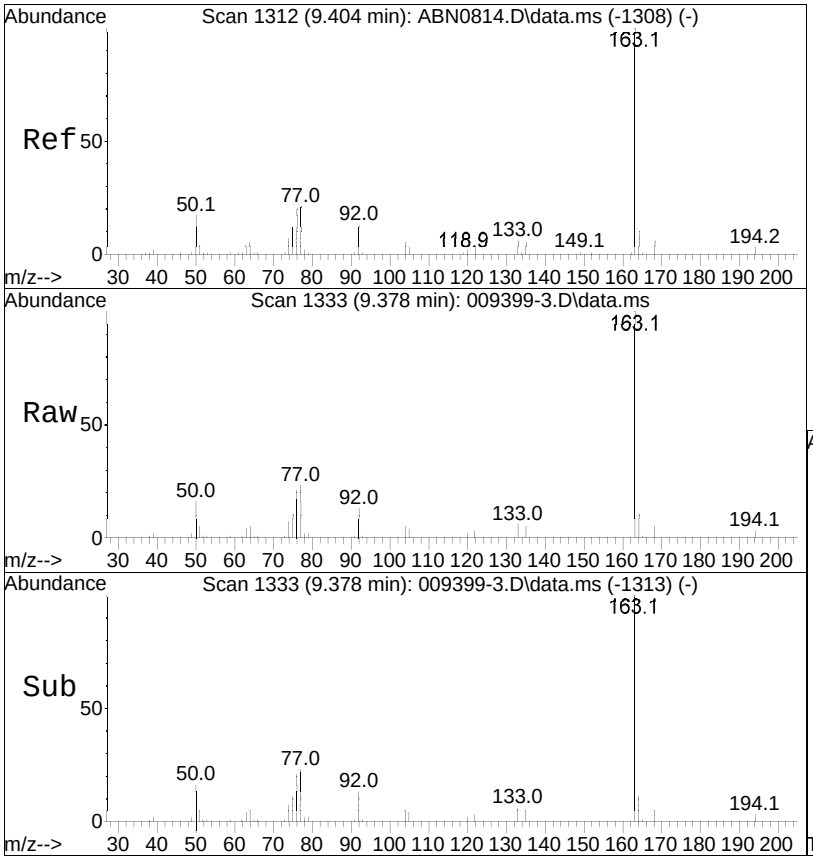


#48
2-Nitroaniline
Concen: 1.51 ug/ml
RT: 9.178 min Scan# 1299
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:138 Resp: 3461

Ion	Ratio	Lower	Upper
138	100		
92	66.6	53.5	80.3
65	95.9	86.3	129.5

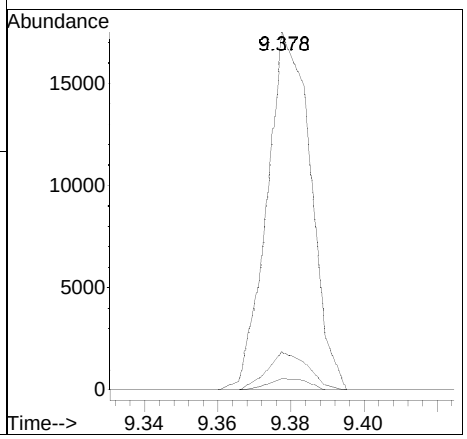


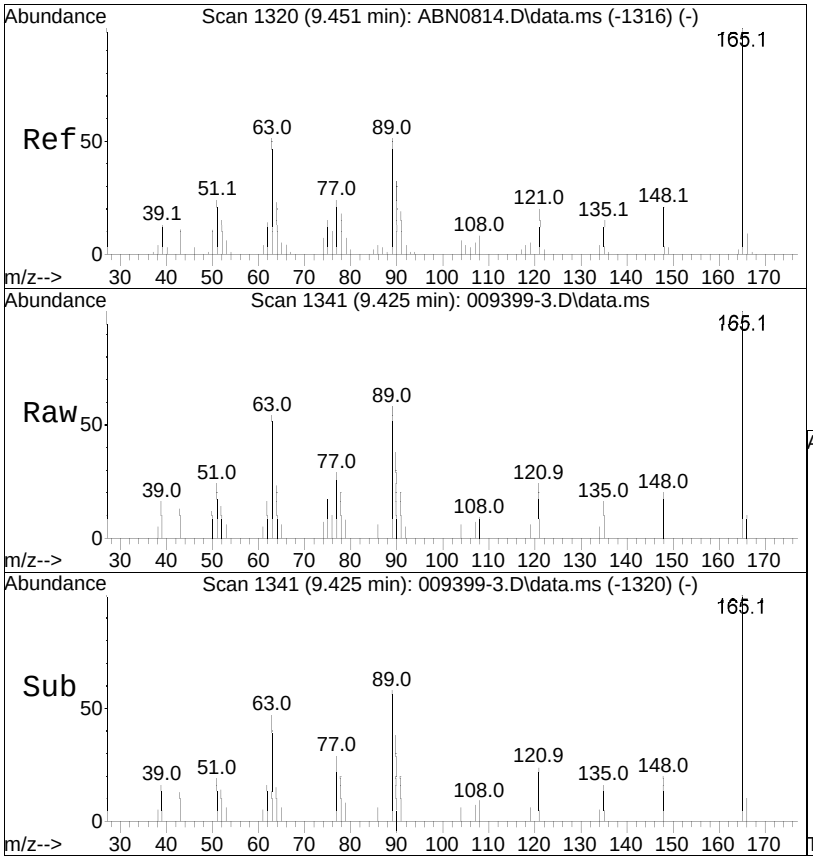


#51
Dimethyl phthalate
Concen: 1.49 ug/ml
RT: 9.378 min Scan# 1333
Delta R.T. -0.006 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:163 Resp: 14397

Ion	Ratio	Lower	Upper
163	100		
194	2.9	3.5	5.3#
164	10.0	7.9	11.9

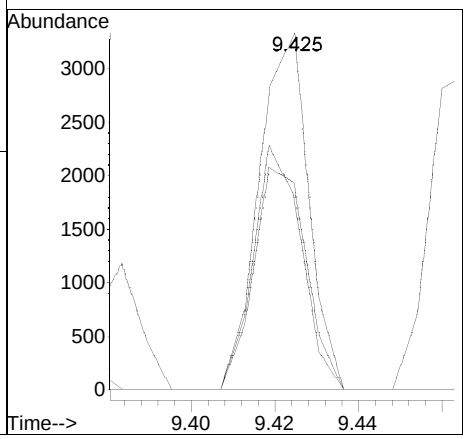


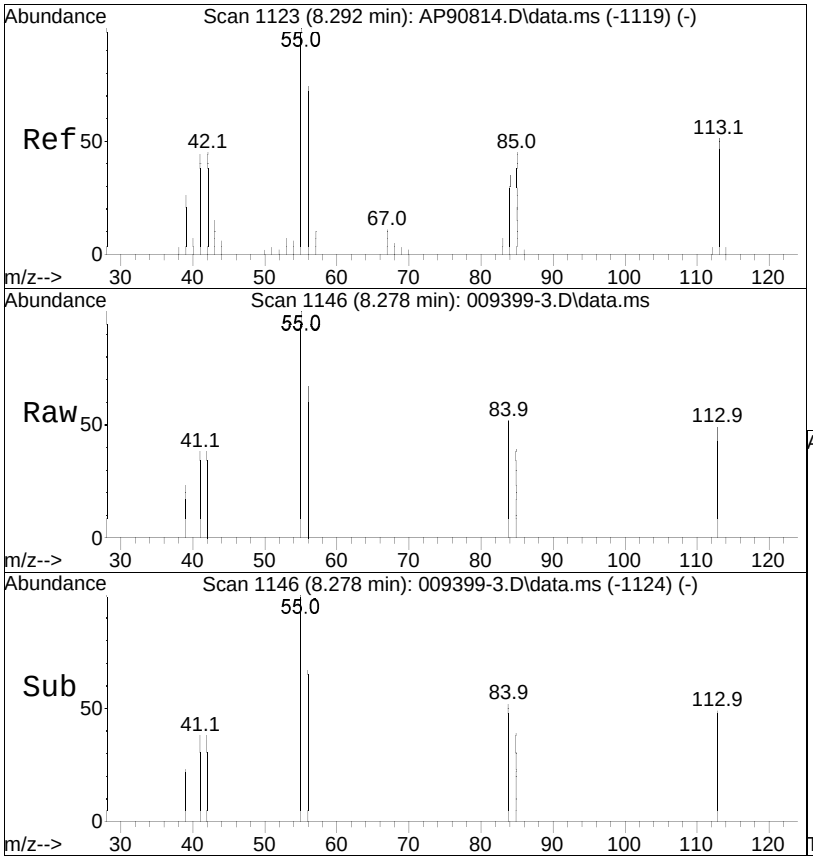


#53
2,6-Dinitrotoluene
Concen: 1.45 ug/ml
RT: 9.425 min Scan# 1341
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:165 Resp: 2746

Ion	Ratio	Lower	Upper
165	100		
89	66.1	54.2	81.2
63	66.1	64.2	96.2

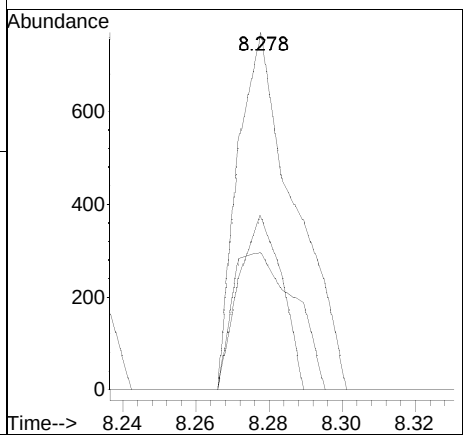


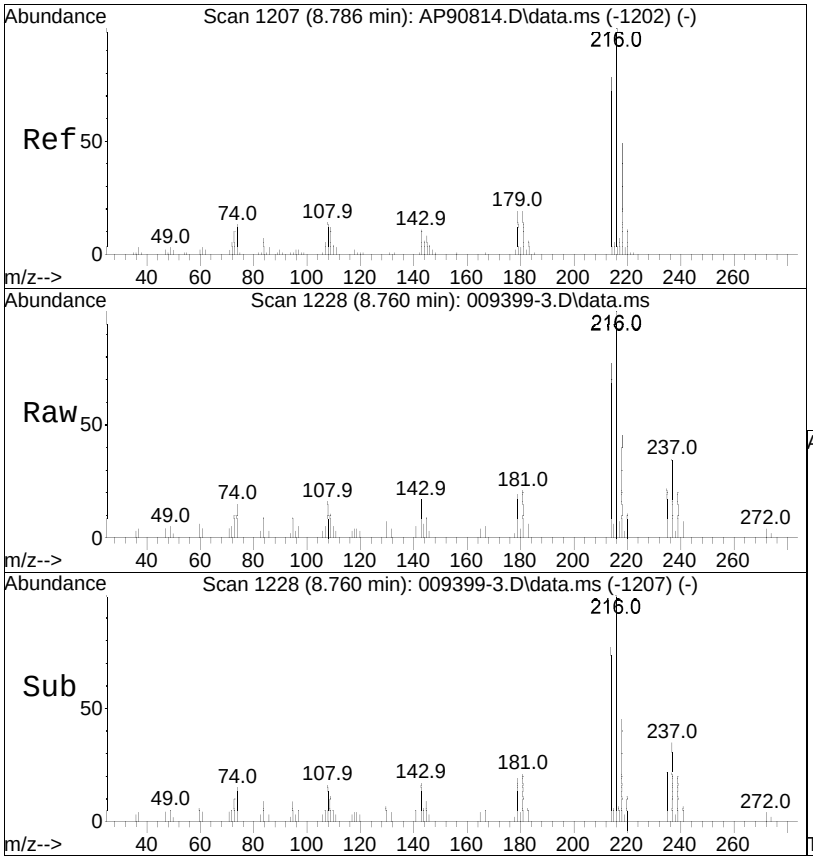


#60
Caprolactam
Concen: 0.98 ug/ml
RT: 8.278 min Scan# 1146
Delta R.T. 0.006 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion: 55 Resp: 829

Ion	Ratio	Lower	Upper
55	100		
85	0.0	19.8	29.6#
113	85.0	29.6	44.4#

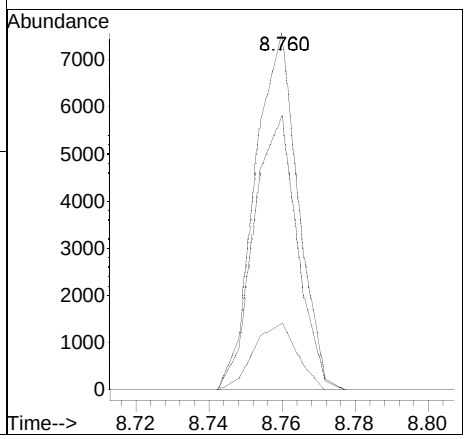


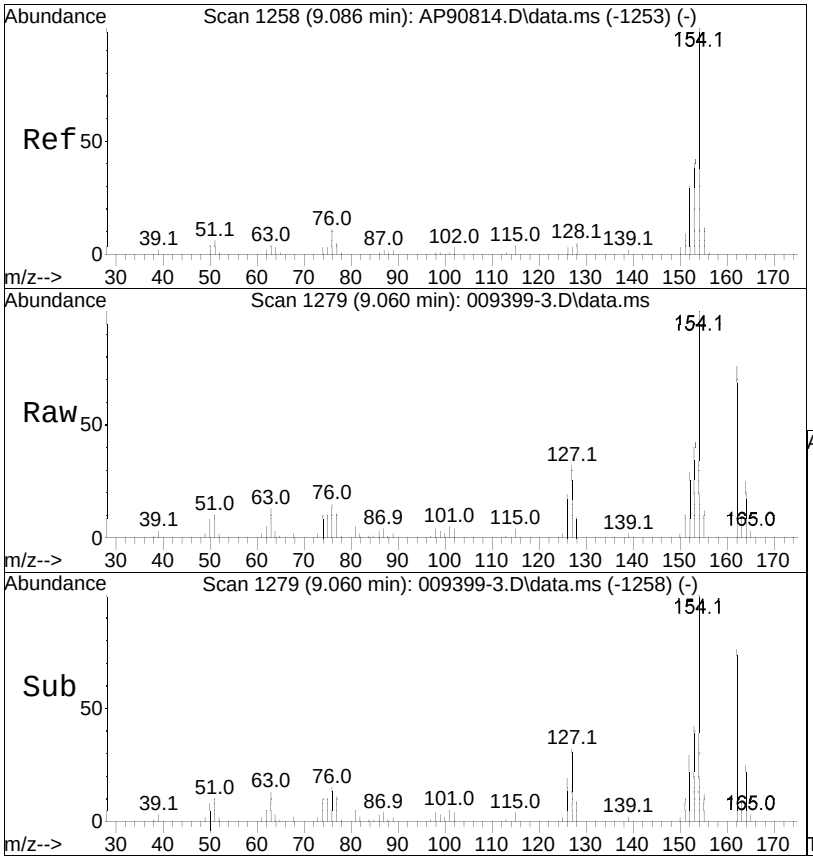


#61
1,2,4,5-Tetrachlorobenzene
Concen: 1.24 ug/ml
RT: 8.760 min Scan# 1228
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:216 Resp: 6161

Ion	Ratio	Lower	Upper
216	100		
214	77.6	63.7	95.5
179	19.0	19.0	28.6#

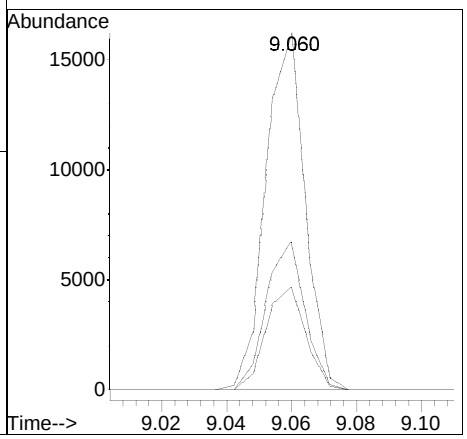


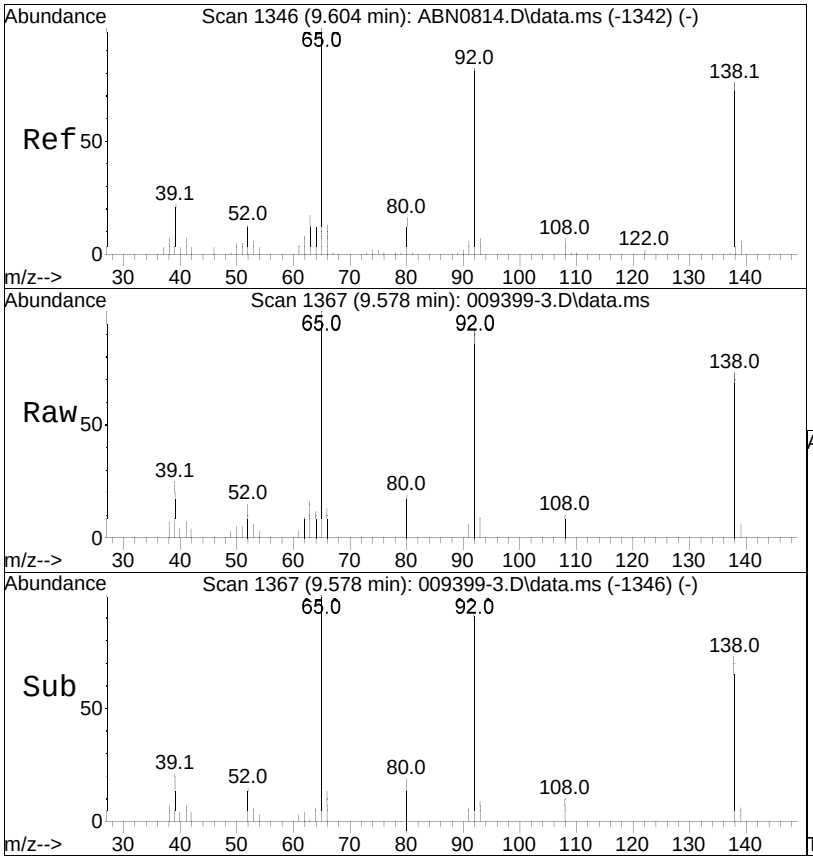


#62
Biphenyl
Concen: 1.17 ug/ml
RT: 9.060 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:154 Resp: 13553

Ion	Ratio	Lower	Upper
154	100		
153	41.1	32.3	48.5
152	29.2	22.5	33.7

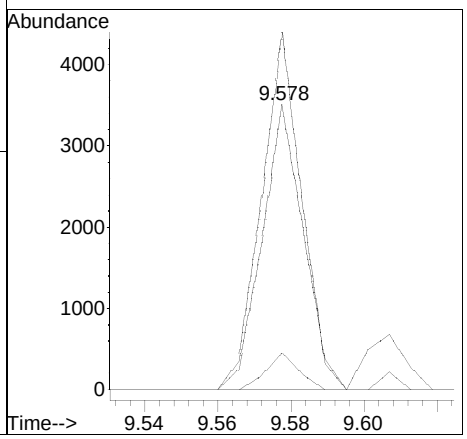


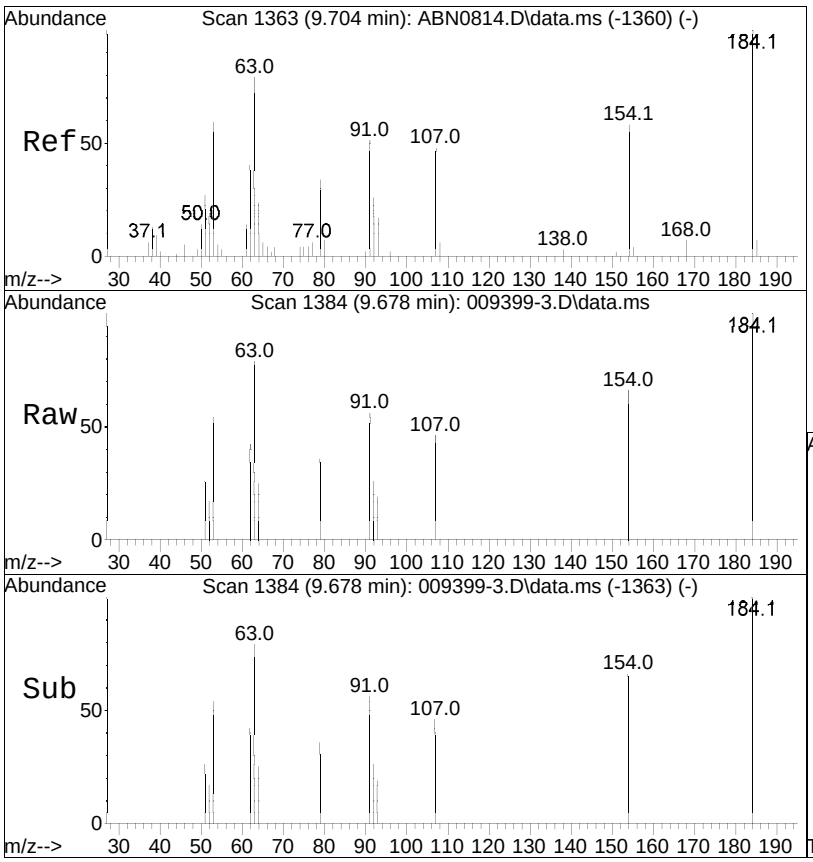


#64
3-Nitroaniline
Concen: 1.25 ug/ml
RT: 9.578 min Scan# 1367
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:138 Resp: 2735

Ion	Ratio	Lower	Upper
138	100		
92	121.8	93.4	140.2
108	18.7	9.5	14.3#

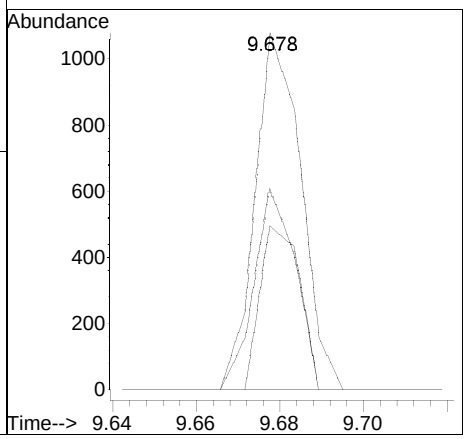


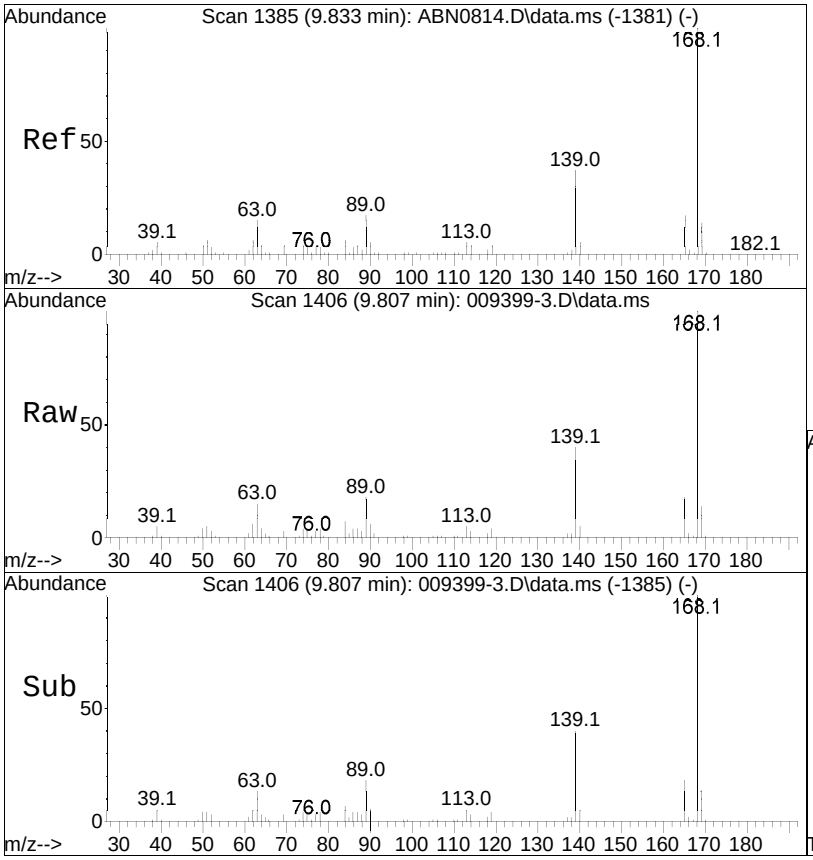


#66
2,4-Dinitrophenol
Concen: 1.48 ug/ml
RT: 9.678 min Scan# 1384
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:184 Resp: 819

Ion	Ratio	Lower	Upper
184	100		
107	0.0	37.7	56.5#
91	50.8	46.3	69.5

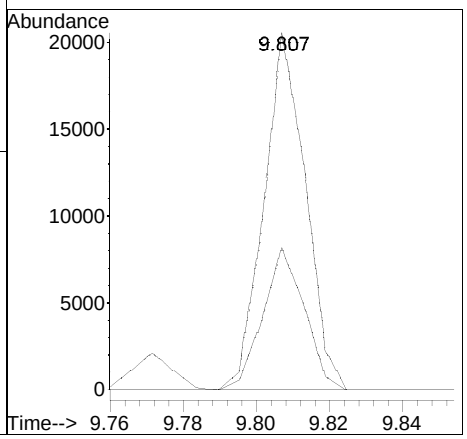


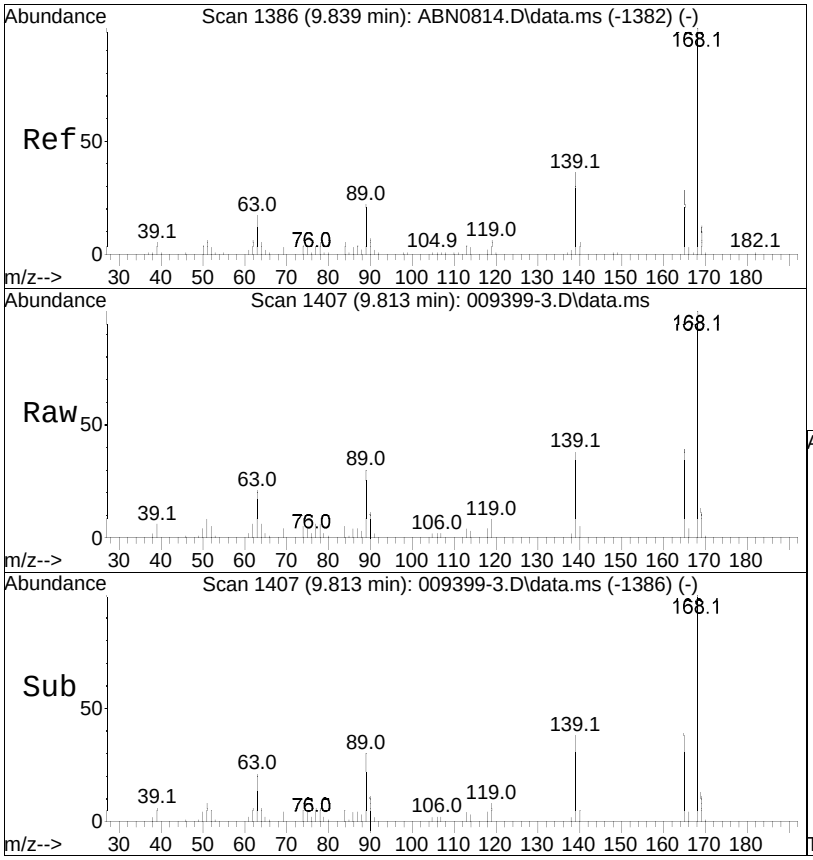


#67
Dibenzofuran
Concen: 1.25 ug/ml
RT: 9.807 min Scan# 1406
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:168 Resp: 16052

Ion	Ratio	Lower	Upper
168	100		
139	39.9	31.4	47.2

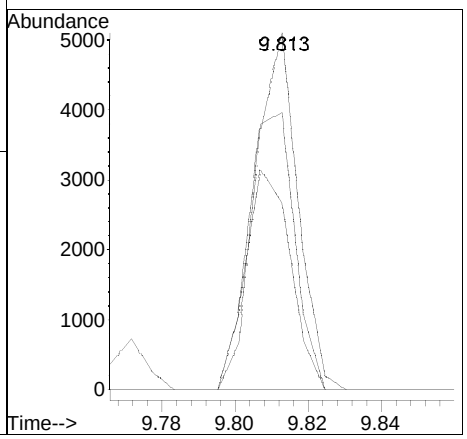


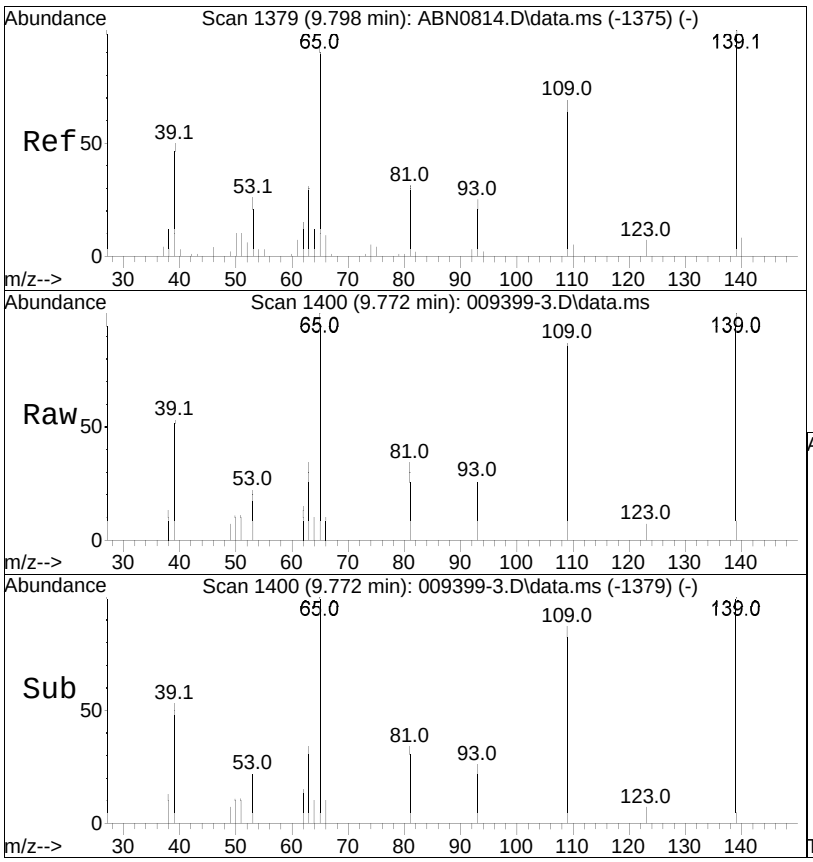


#68
2,4-Dinitrotoluene
Concen: 1.47 ug/ml
RT: 9.813 min Scan# 1407
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:165 Resp: 4088

Ion	Ratio	Lower	Upper
165	100		
89	85.6	72.0	108.0
63	65.8	52.7	79.1

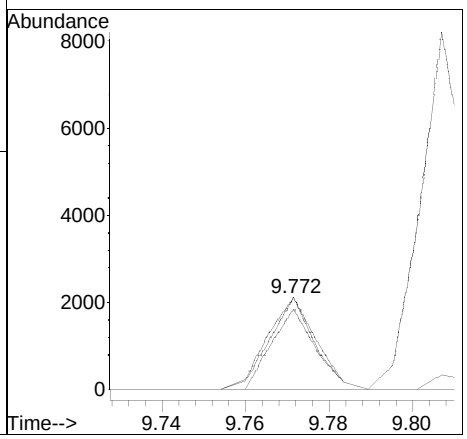


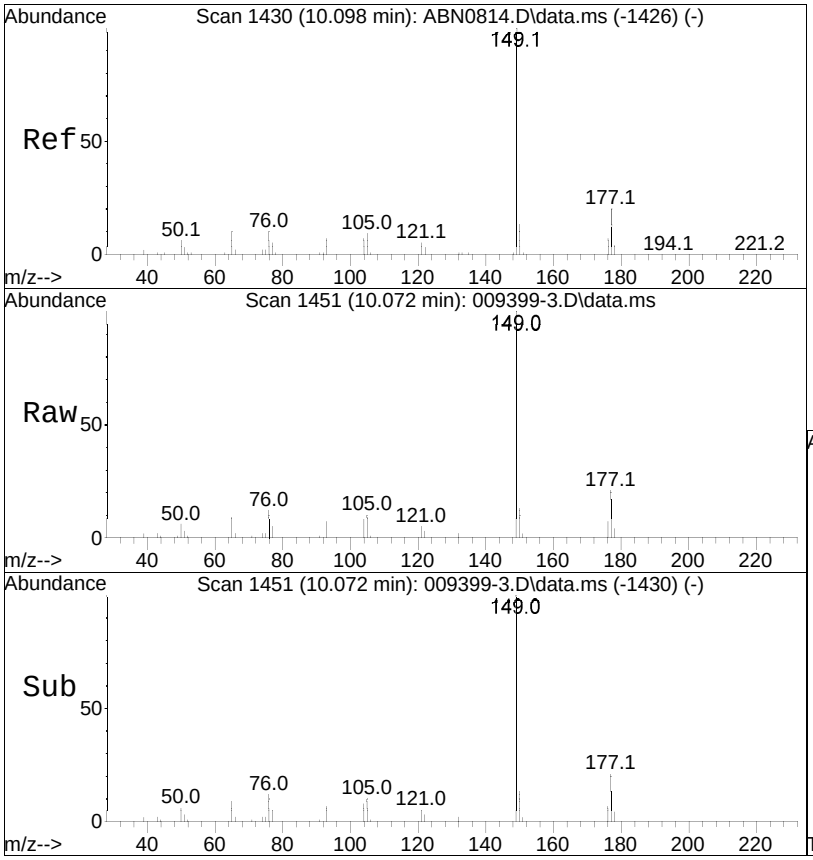


#69
4-Nitrophenol
Concen: 0.96 ug/ml
RT: 9.772 min Scan# 1400
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion: 65 Resp: 1654

Ion	Ratio	Lower	Upper
65	100		
109	81.7	47.4	71.2#
139	98.9	76.6	115.0

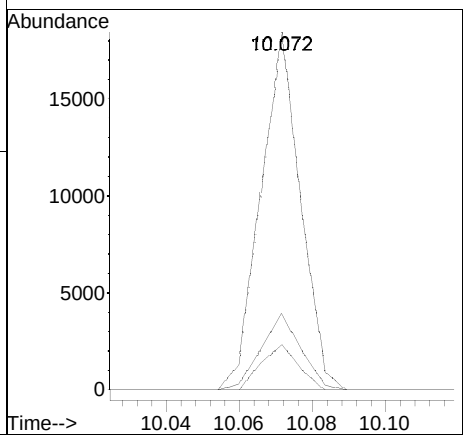


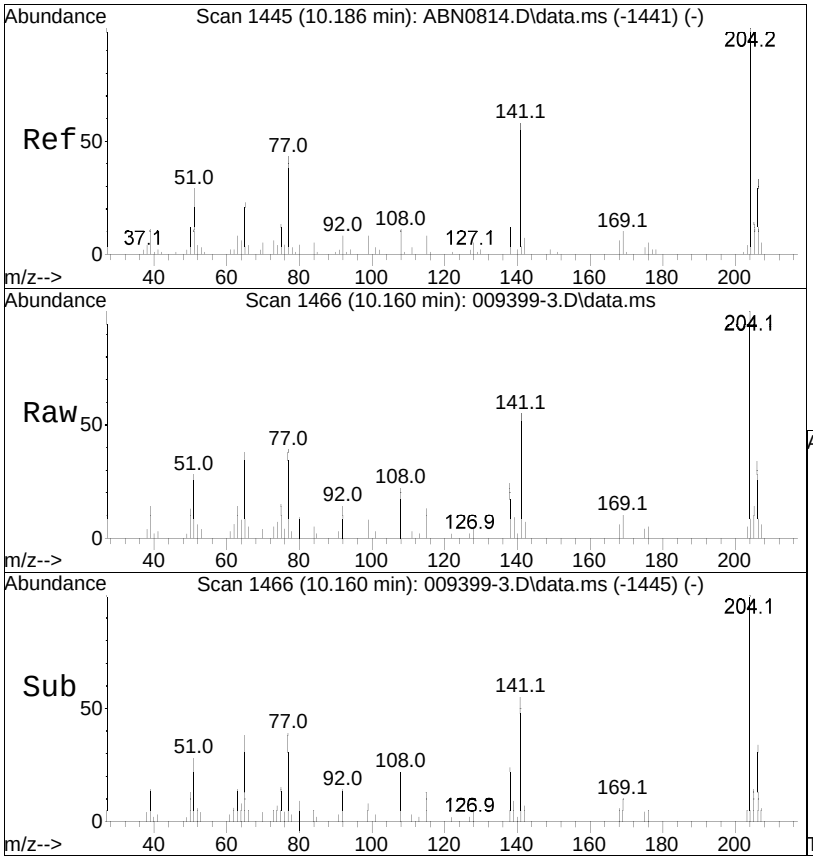


#72
Diethyl phthalate
Concen: 1.52 ug/ml
RT: 10.072 min Scan# 1451
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:149 Resp: 13765

Ion	Ratio	Lower	Upper
149	100		
177	21.6	16.1	24.1
150	11.9	9.4	14.2

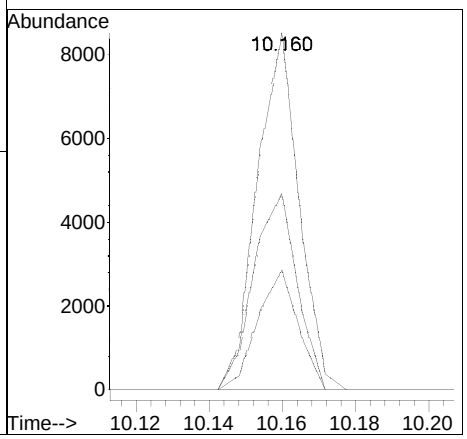


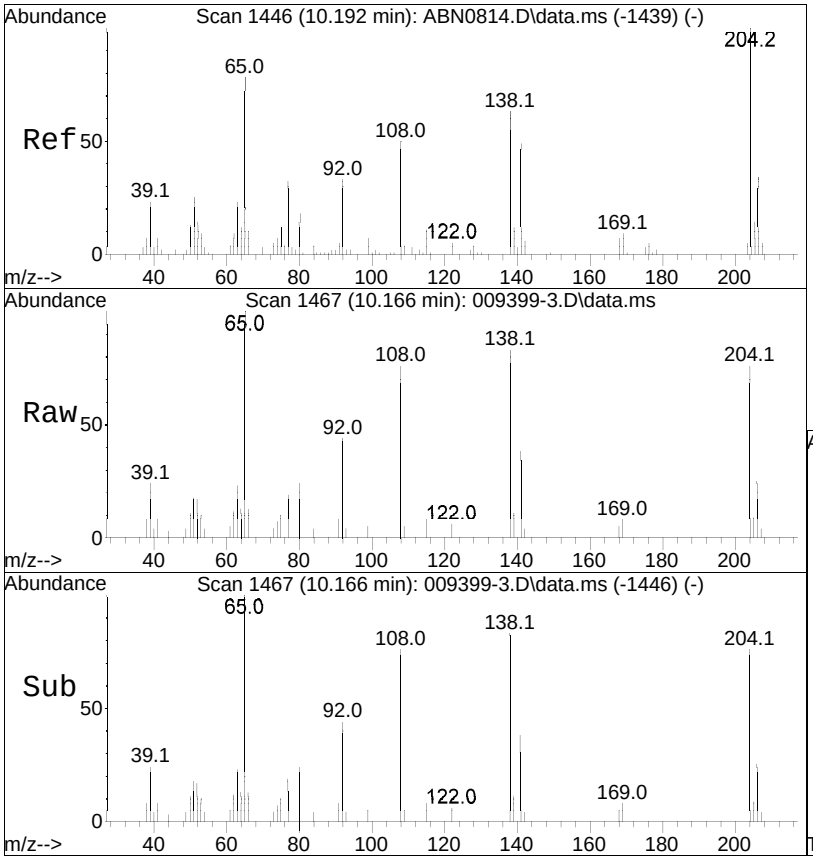


#74
4-Chlorophenyl phenyl ether
Concen: 1.38 ug/ml
RT: 10.160 min Scan# 1466
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:204 Resp: 6711

Ion	Ratio	Lower	Upper
204	100		
206	32.6	25.8	38.6
141	57.5	53.6	80.4

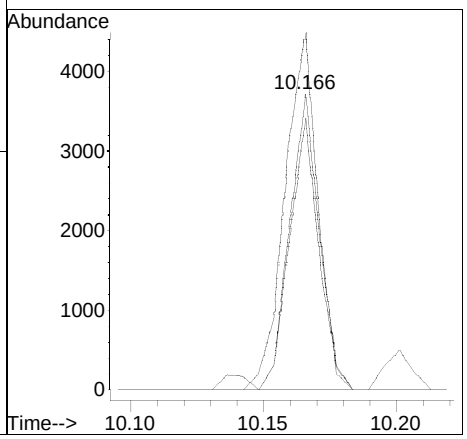


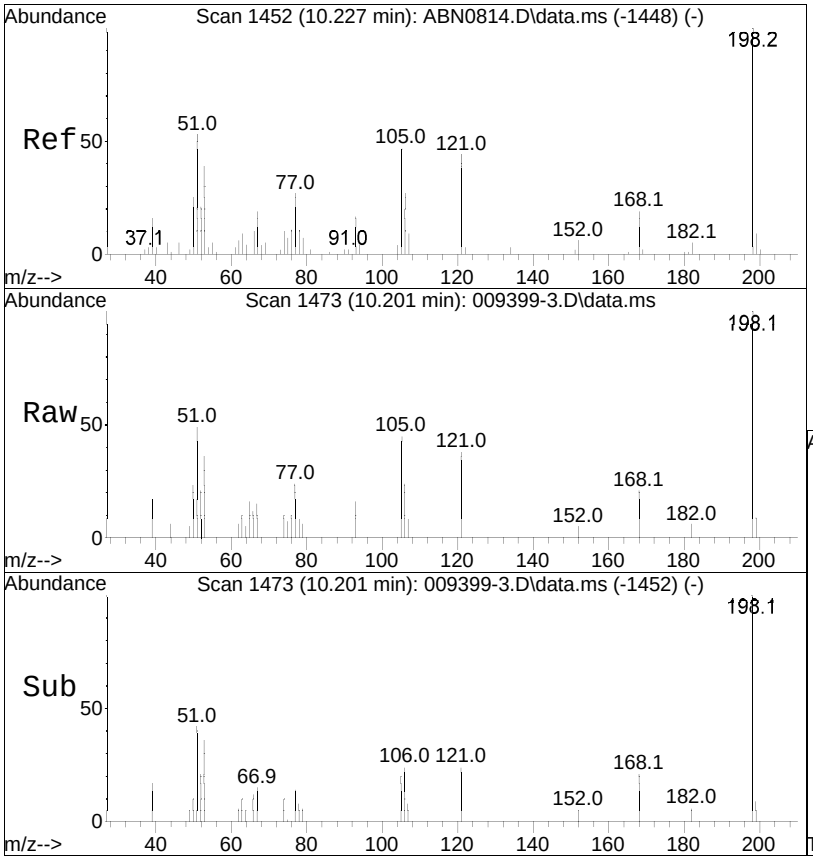


#75
4-Nitroaniline
Concen: 1.37 ug/ml
RT: 10.166 min Scan# 1467
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:138 Resp: 2991

Ion	Ratio	Lower	Upper
138	100		
108	87.0	52.1	78.1#
65	127.7	115.0	172.6

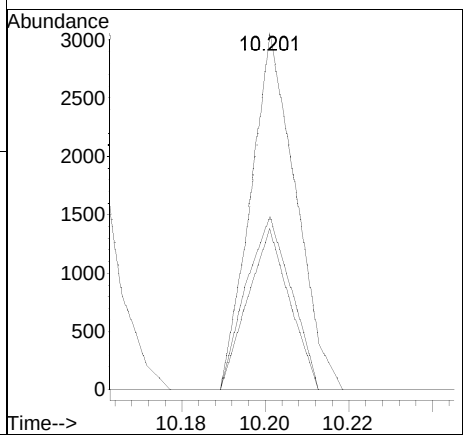


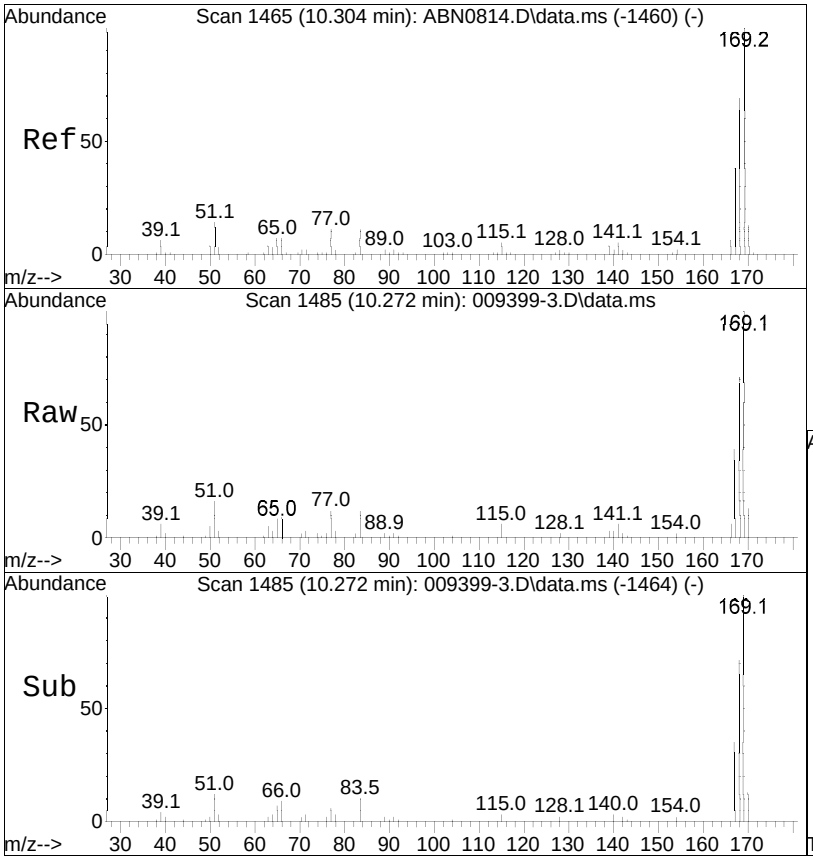


#76
4,6-Dinitro-o-cresol
Concen: 1.71 ug/ml
RT: 10.201 min Scan# 1473
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:198 Resp: 2292

Ion	Ratio	Lower	Upper
198	100		
51	48.6	76.0	114.0#
105	42.0	45.6	68.4#

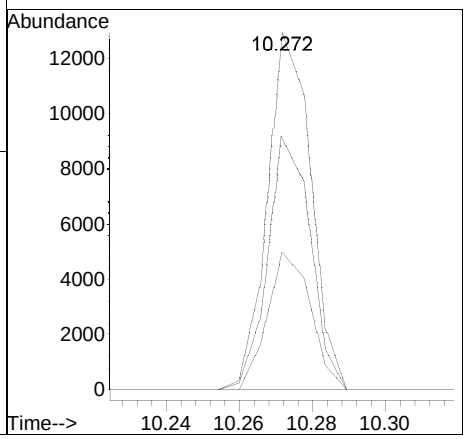


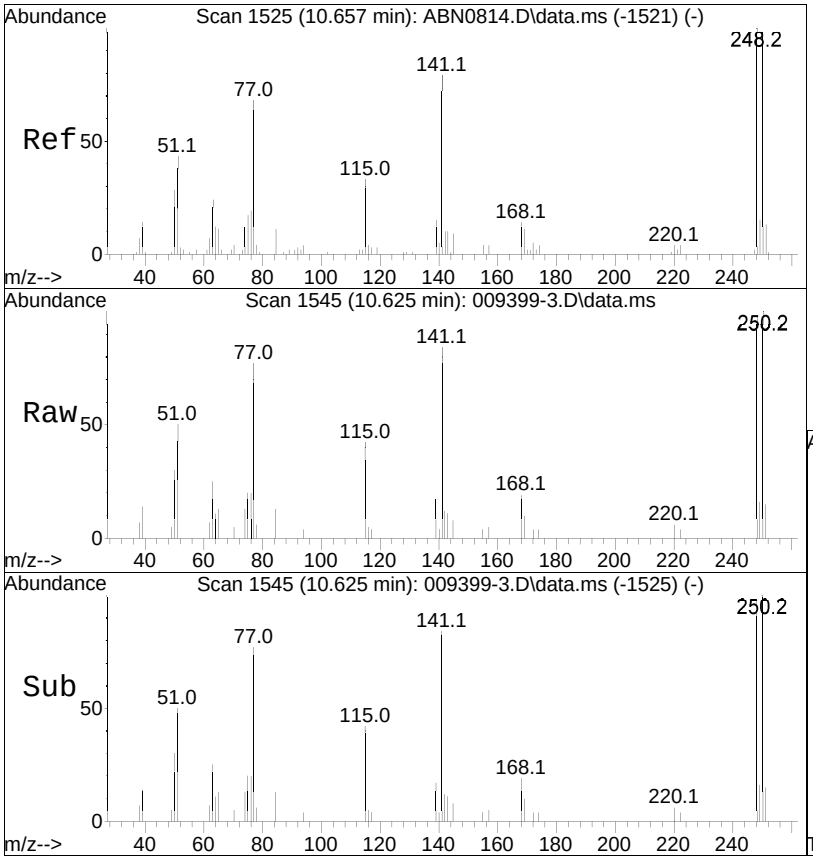


#77
NDPA/DPA
Concen: 1.34 ug/ml
RT: 10.272 min Scan# 1485
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:169 Resp: 10663

Ion	Ratio	Lower	Upper
169	100		
168	69.8	54.0	81.0
167	38.4	28.6	42.8

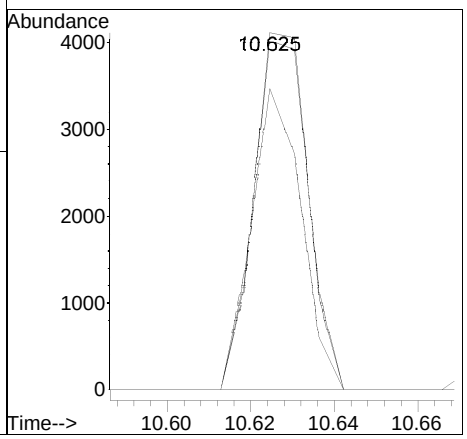


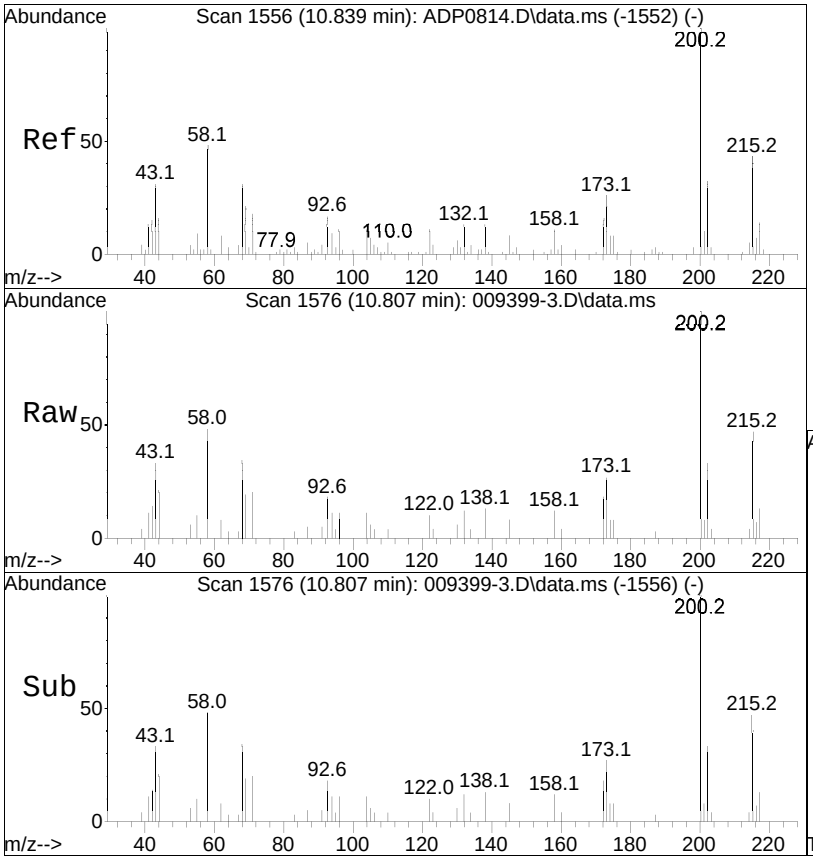


#80
4-Bromophenyl phenyl ether
Concen: 1.39 ug/ml
RT: 10.625 min Scan# 1545
Delta R.T. -0.006 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:248 Resp: 3637

Ion	Ratio	Lower	Upper
248	100		
141	78.9	76.6	114.8
250	100.9	77.3	115.9

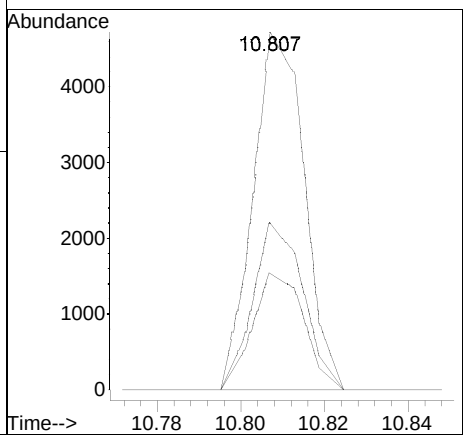


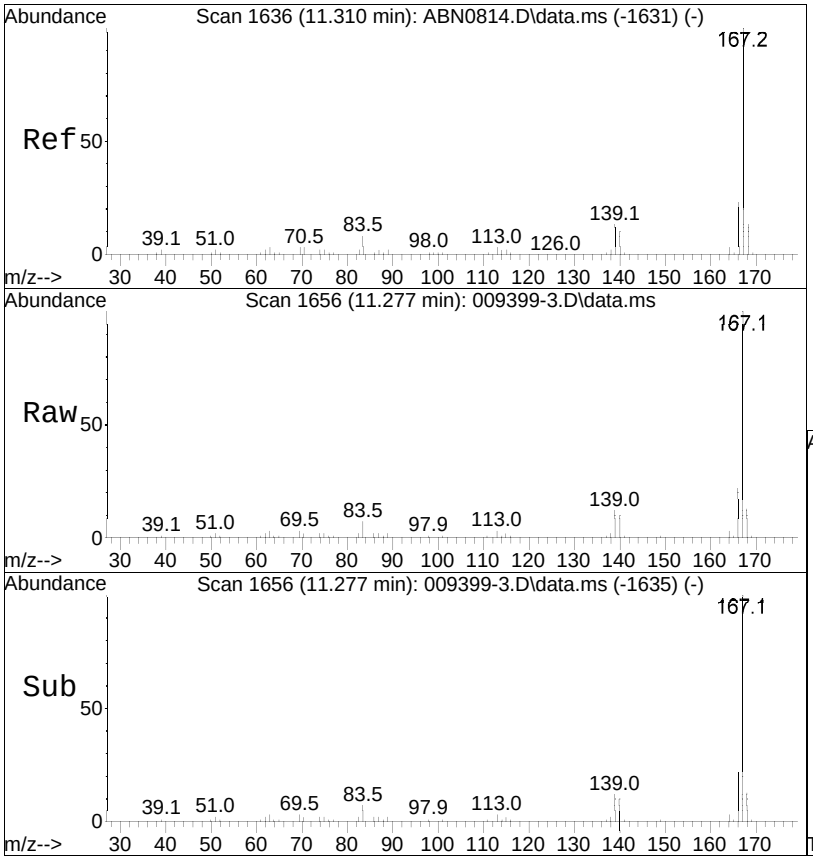


#87
Atrazine
Concen: 1.86 ug/ml
RT: 10.807 min Scan# 1576
Delta R.T. -0.006 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:200 Resp: 3984

Ion	Ratio	Lower	Upper
200	100		
202	32.9	25.8	38.6
215	46.0	40.2	60.4

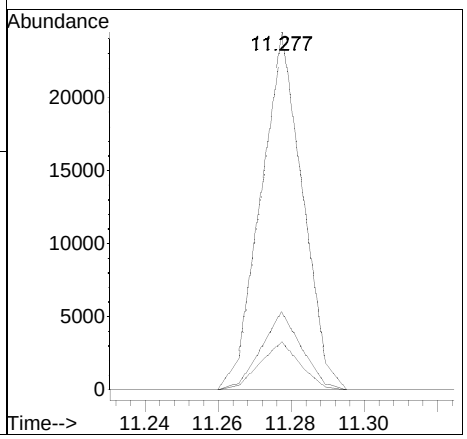


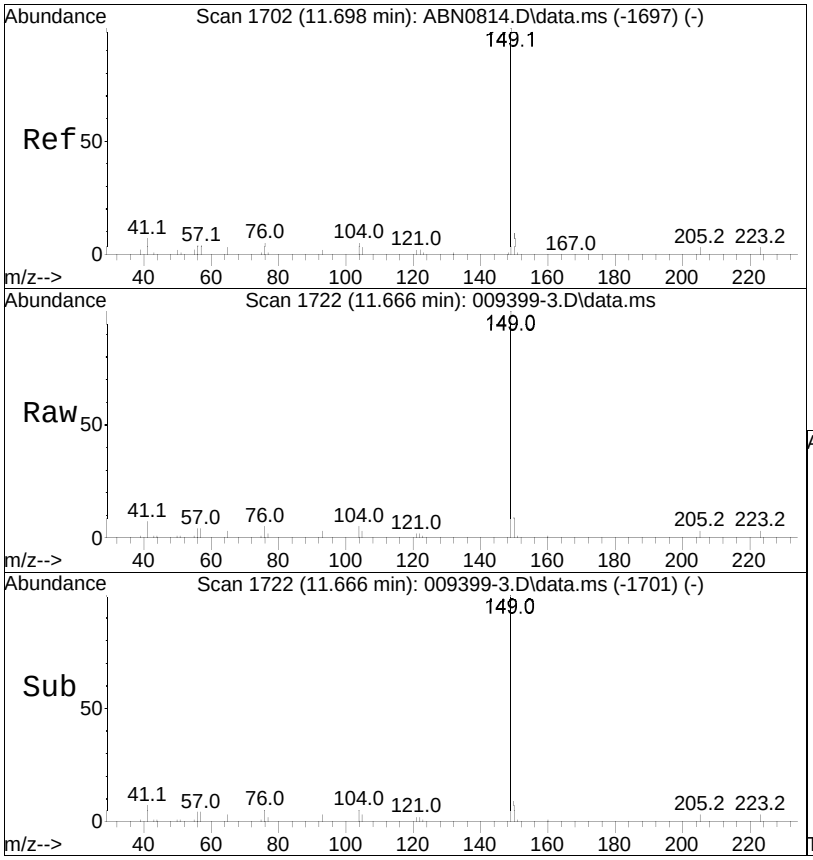


#91
Carbazole
Concen: 1.42 ug/ml
RT: 11.277 min Scan# 1656
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:167 Resp: 19159

Ion	Ratio	Lower	Upper
167	100		
168	13.1	10.6	15.8
166	21.3	17.4	26.0

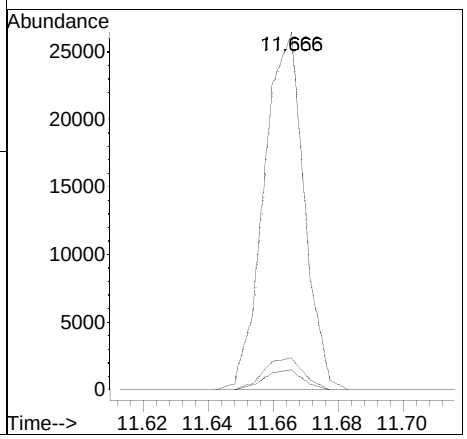


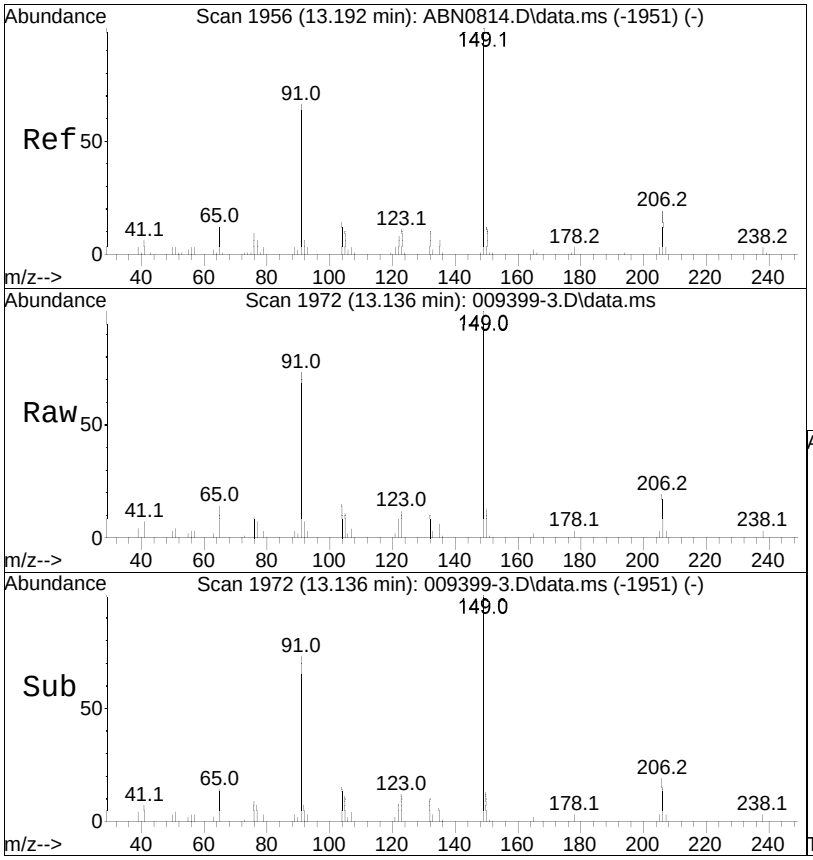


#92
Di-n-butylphthalate
Concen: 1.50 ug/ml
RT: 11.666 min Scan# 1722
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:149 Resp: 22357

Ion	Ratio	Lower	Upper
149	100		
150	8.9	7.0	10.6
104	5.4	4.5	6.7

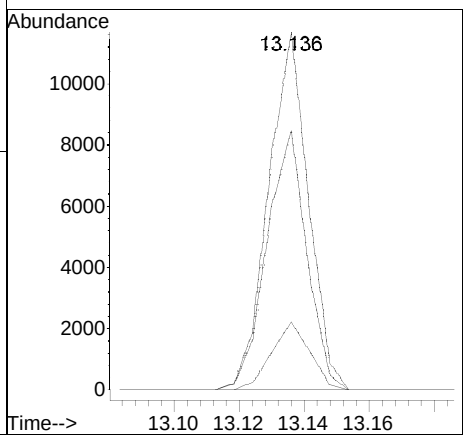


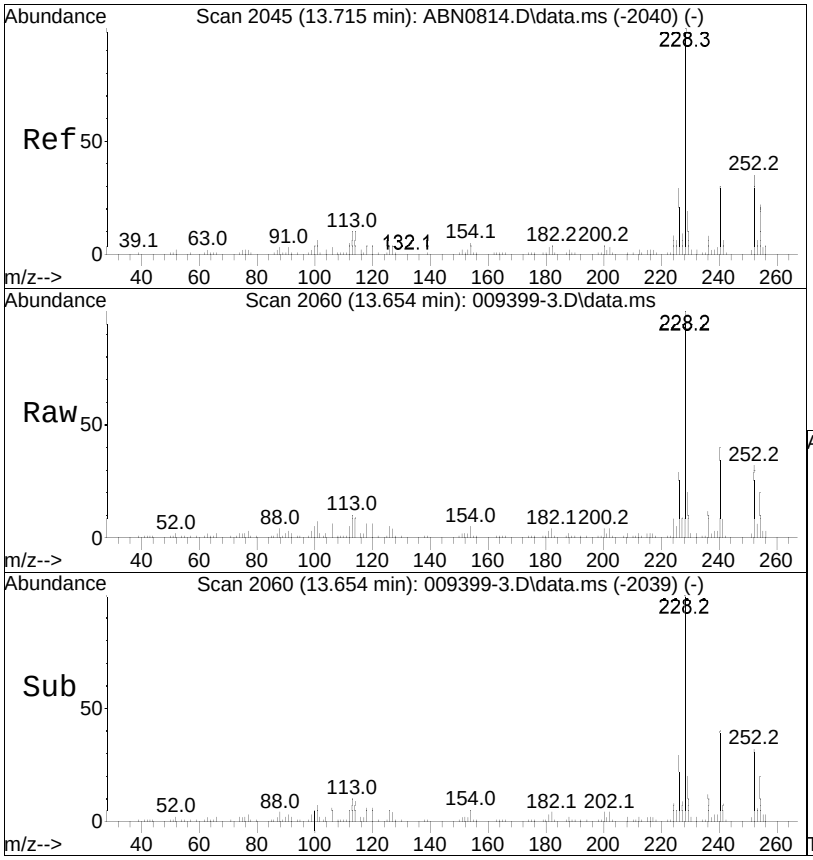


#97
Butyl benzyl phthalate
Concen: 1.63 ug/ml
RT: 13.136 min Scan# 1972
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:149 Resp: 9848

Ion	Ratio	Lower	Upper
149	100		
91	72.7	63.3	94.9
206	18.3	13.9	20.9

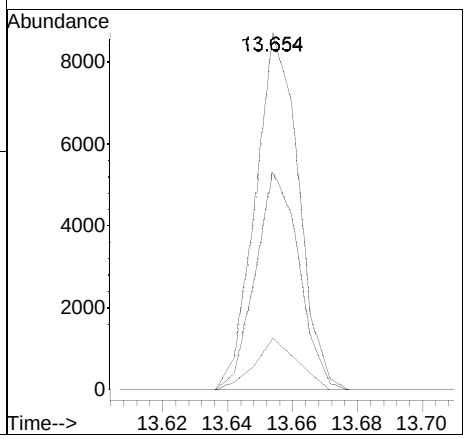


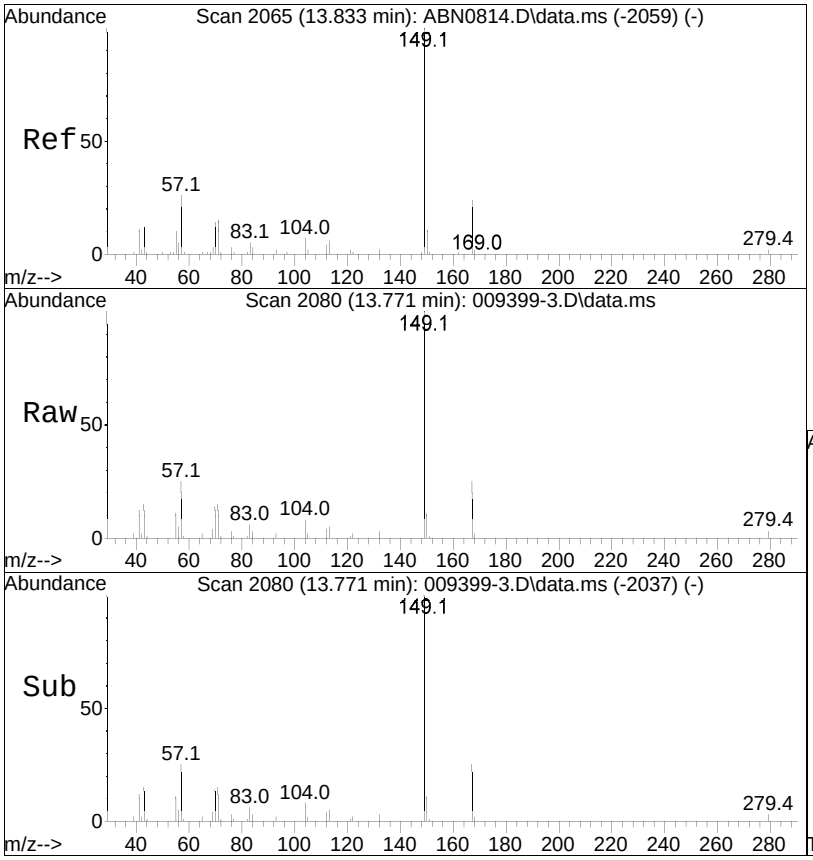


#106
3,3'-Dichlorobenzidine
Concen: 1.34 ug/ml
RT: 13.654 min Scan# 2060
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:252 Resp: 7966

Ion	Ratio	Lower	Upper
252	100		
126	14.3	14.5	21.7#
254	61.6	51.2	76.8

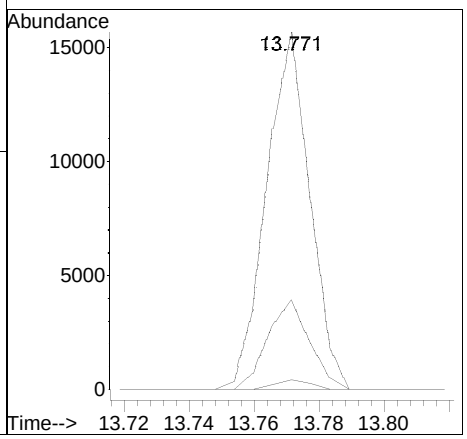


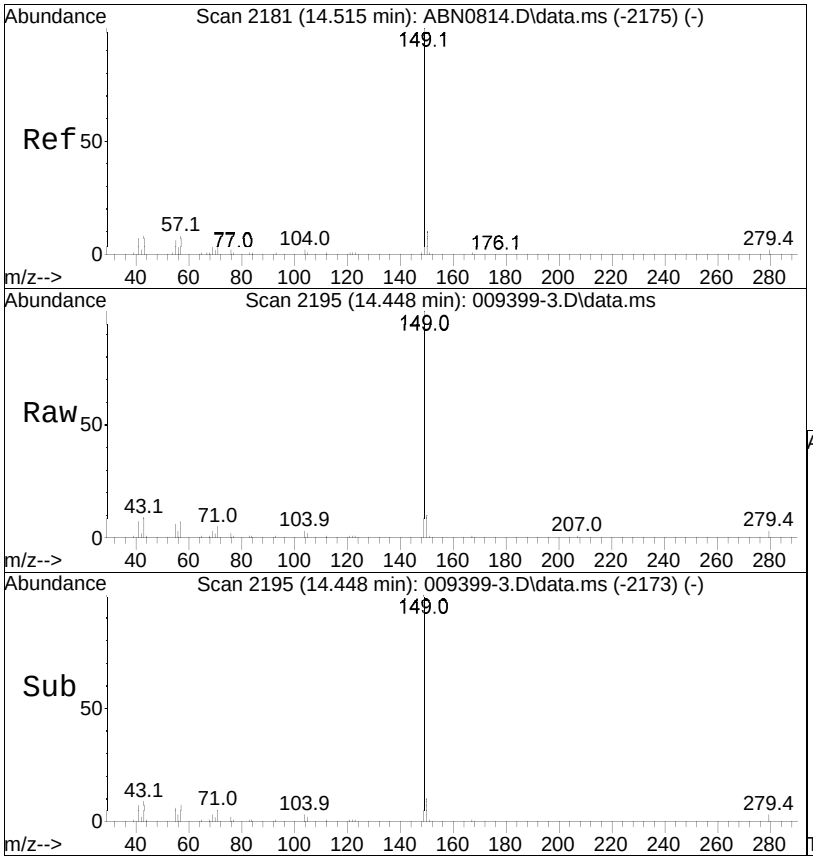


#108
Bis(2-ethylhexyl)phthalate
Concen: 1.57 ug/ml
RT: 13.771 min Scan# 2080
Delta R.T. 0.000 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:149 Resp: 14391

Ion	Ratio	Lower	Upper
149	100		
167	24.4	22.1	33.1
279	0.0	3.0	4.4#

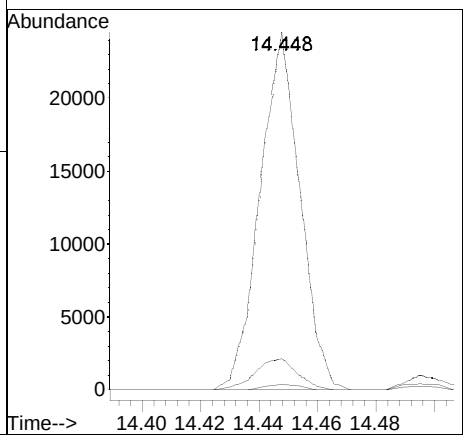




#109
Di-n-octylphthalate
Concen: 1.66 ug/ml
RT: 14.448 min Scan# 2195
Delta R.T. 0.006 min
Lab File: 009399-3.D
Acq: 17 Dec 2024 2:39 am

Tgt Ion:149 Resp: 23013

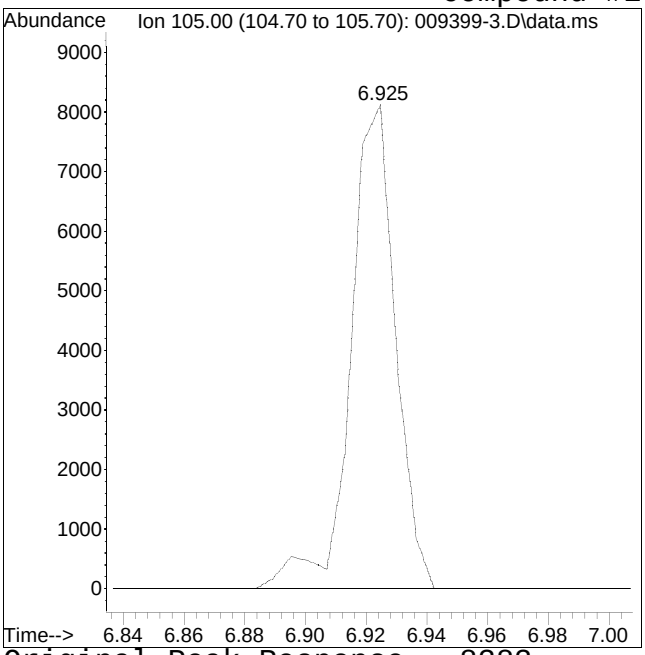
Ion	Ratio	Lower	Upper
149	100		
43	9.3	18.8	28.2#
167	0.0	1.3	1.9#



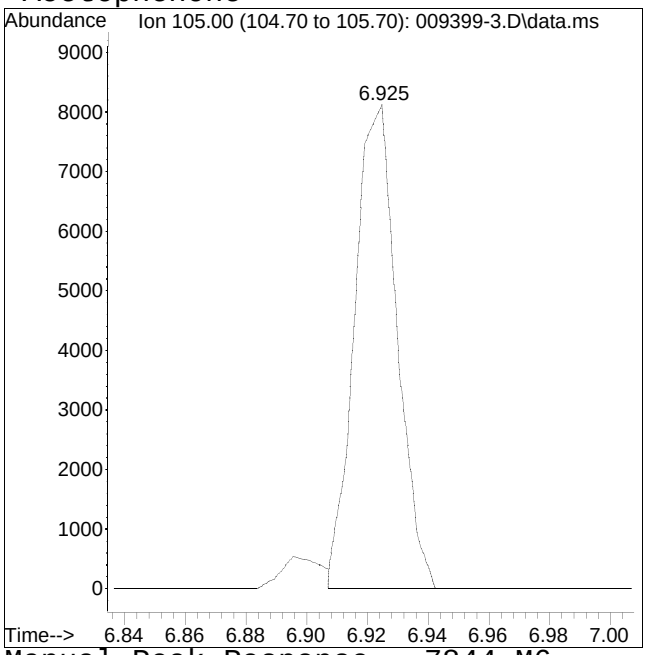
Manual Integration Report

Data Path : I:\8270\SV107\241216NRVT\ QMethod : FS240730SV107RVT.m
Data File : 009399-3.D Operator : SV107:ljg
Date Inj'd : 12/17/2024 2:39 am Instrument : SV107
Sample : WG2009399-3,32,,ASK Quant Date : 12/17/2024 2:58 am

Compound #29: Acetophenone



Original Peak Response = 8383



Manual Peak Response = 7844 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 009399-4.D
Acq On : 17 Dec 2024 5:48 am
Operator : Dakota:smz
Sample : WG2009399-4,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 17 06:04:53 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.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...	3.636	152	29671	4.000	ug/ml	0.00
Standard Area 1 = 26484			Recovery = 112.03%			
27) IS2_1,4-Dichlorobenzen...	3.636	152	29671	4.000	ug/ml	0.00
Standard Area 3 = 26042			Recovery = 113.94%			
37) IS1_Naphthalene-d8	4.895	136	113304	4.000	ug/ml	# 0.00
Standard Area 1 = 99668			Recovery = 113.68%			
57) IS2_Naphthalene-d8	4.895	136	113304	4.000	ug/ml	# 0.00
Standard Area 3 = 95704			Recovery = 118.39%			
65) IS1_Acenaphthene-d10	6.577	164	74908	4.000	ug/ml	0.00
Standard Area 1 = 68055			Recovery = 110.07%			
85) IS2_Acenaphthene-d10	6.577	164	74908	4.000	ug/ml	0.00
Standard Area 3 = 62423			Recovery = 120.00%			
88) IS3_Acenaphthene-d10	6.577	164	74908	4.000	ug/ml	0.00
Standard Area 2 = 60461			Recovery = 123.89%			
90) IS1_Phenanthrene-d10	7.969	188	163603	4.000	ug/ml	0.00
Standard Area 1 = 150638			Recovery = 108.61%			
102) IS3_Phenanthrene-d10	7.969	188	163603	4.000	ug/ml	0.00
Standard Area 2 = 137555			Recovery = 118.94%			
106) IS1_Chrysene-d12	10.474	240	188784	4.000	ug/ml	0.00
Standard Area 1 = 177601			Recovery = 106.30%			
115) IS1_Perylene-d12	11.823	264	222314	4.000	ug/ml	0.00
Standard Area 1 = 203764			Recovery = 109.10%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.229	112	7211	0.945	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 47.25%			
7) Phenol-d6	3.369	99	6725	0.688	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 34.40%			
19) Nitrobenzene-d5	4.215	82	5997	0.677	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 67.70%			
48) 2-Fluorobiphenyl	5.983	172	16803	0.599	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 59.90%			
81) 2,4,6-Tribromophenol	7.329	330	7767	1.451	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 72.55%			
98) 4-Terphenyl-d14	9.539	244	30612	0.647	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 64.70%			

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 009399-4.D
Acq On : 17 Dec 2024 5:48 am
Operator : Dakota:smz
Sample : WG2009399-4,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 17 06:04:53 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	3.425	128	11496	1.265	ug/ml	92
8) Phenol	3.382	94	8366	0.794	ug/ml	95
14) Bis(2-chloroisopropyl)...	3.985	45	18006	1.353	ug/ml#	67
15) 2-Methylphenol	3.997	108	9234	1.153	ug/ml	99
17) n-Nitrosodi-n-propylamine	4.121	70	8762	1.369	ug/ml#	85
18) 3-Methylphenol/4-Methy...	4.165	108	10191	1.162	ug/ml#	58
20) Nitrobenzene	4.230	77	11671	1.287	ug/ml	96
21) Isophorone	4.485	82	22232	1.334	ug/ml#	92
22) 2-Nitrophenol	4.553	139	5623	1.225	ug/ml	89
23) 2,4-Dimethylphenol	4.675	107	6302	0.772	ug/ml	97
24) Bis(2-chloroethoxy)met...	4.752	93	14254	1.373	ug/ml#	94
25) 2,4-Dichlorophenol	4.802	162	13141	1.379	ug/ml#	90
28) Benzaldehyde	3.176	105	9526	1.826	ug/ml	94
29) Acetophenone	4.078	105	17281	1.660	ug/ml#	79
40) 4-Chloroaniline	5.020	65	3884	1.134	ug/ml	94
42) p-Chloro-m-cresol	5.548	107	11024	1.343	ug/ml	88
45) Hexachlorocyclopentadiene	5.775	237	5279	0.685	ug/ml	95
46) 2,4,6-Trichlorophenol	5.902	196	10744	1.324	ug/ml	99
47) 2,4,5-Trichlorophenol	5.930	196	12283	1.353	ug/ml	97
50) 2-Nitroaniline	6.185	138	8589	1.390	ug/ml	83
53) Dimethyl phthalate	6.406	163	38585	1.375	ug/ml#	97
55) 2,6-Dinitrotoluene	6.437	165	6952	1.327	ug/ml	87
62) Caprolactam	5.312	55	2142	0.615	ug/ml#	86
63) 1,2,4,5-Tetrachloroben...	5.769	216	15803	1.351	ug/ml	98
64) Biphenyl	6.064	154	34617	1.452	ug/ml	95
66) 3-Nitroaniline	6.580	138	7553	1.306	ug/ml#	89
68) 2,4-Dinitrophenol	6.679	184	3019	0.857	ug/ml#	79
69) Dibenzofuran	6.776	168	46750	1.244	ug/ml	89
70) 2,4-Dinitrotoluene	6.810	165	10080	1.390	ug/ml	85
71) 4-Nitrophenol	6.807	65	4356	1.010	ug/ml	93
74) Diethyl phthalate	7.087	149	40582	1.376	ug/ml	95
76) 4-Chlorophenyl phenyl ...	7.139	204	17962	1.211	ug/ml	89
77) 4-Nitroaniline	7.152	138	7328	1.311	ug/ml#	85
78) 4,6-Dinitro-o-cresol	7.189	198	5375	1.226	ug/ml#	60
79) NDPA/DPA	7.257	169	32194	1.286	ug/ml	92
82) 4-Bromophenyl phenyl e...	7.593	248	12704	1.301	ug/ml#	80

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 009399-4.D
Acq On : 17 Dec 2024 5:48 am
Operator : Dakota:smz
Sample : WG2009399-4,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 17 06:04:53 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	Atrazine	7.814	200	11896	1.852	ug/ml#	81
93)	Carbazole	8.221	167	61595	1.415	ug/ml	97
94)	Di-n-butylphthalate	8.659	149	70494	1.428	ug/ml#	98
99)	Butyl benzyl phthalate	10.064	149	31769	1.503	ug/ml#	81
108)	3,3'-Dichlorobenzidine	10.499	252	28191	1.183	ug/ml#	96
110)	Bis(2-ethylhexyl)phtha...	10.676	149	51777	1.510	ug/ml#	86
111)	Di-n-octylphthalate	11.307	149	83125	1.454	ug/ml#	74

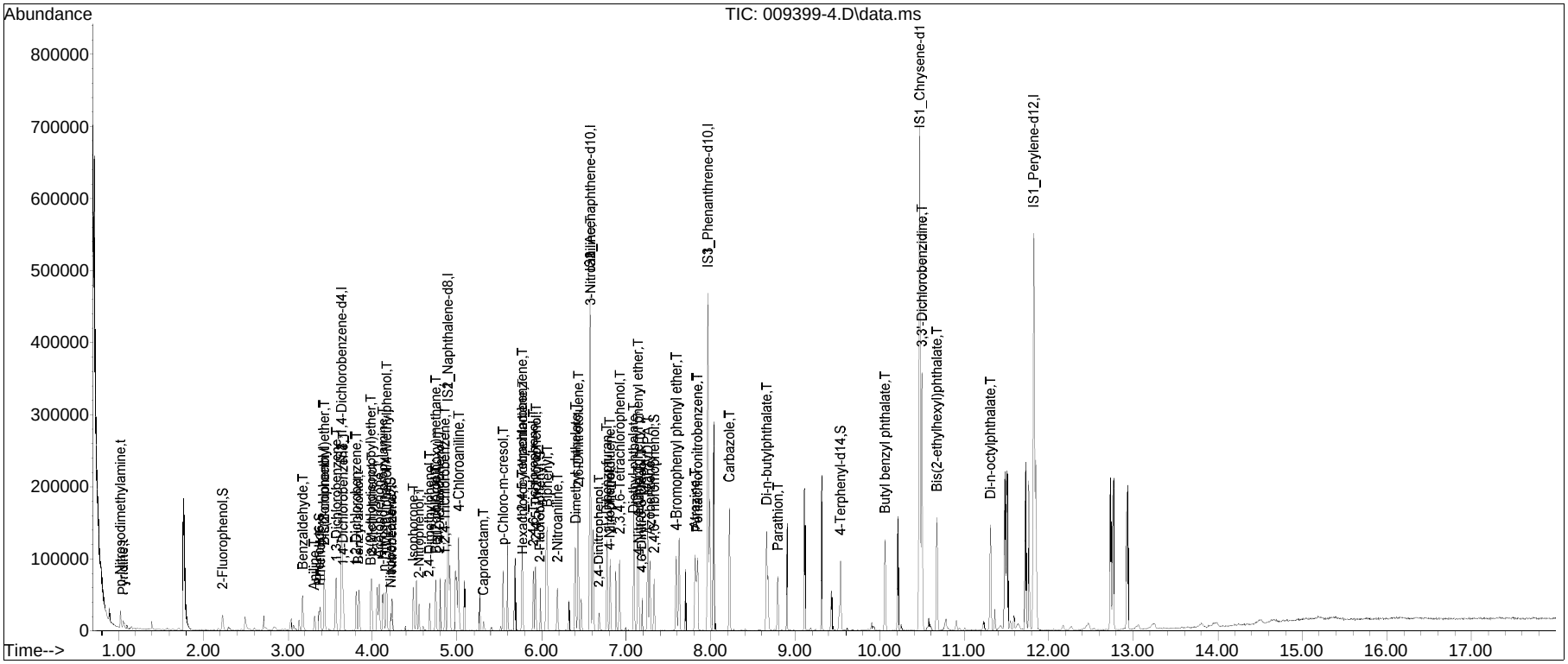
(#) = qualifier out of range (m) = manual integration (+) = signals summed

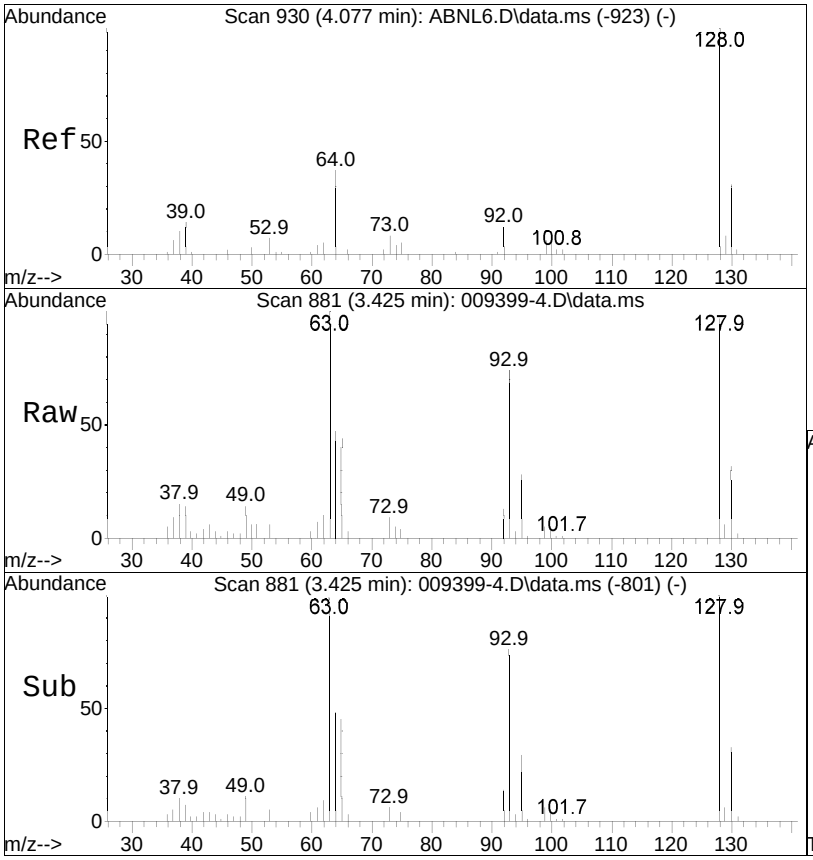
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 009399-4.D
Acq On : 17 Dec 2024 5:48 am
Operator : Dakota:smz
Sample : WG2009399-4,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 17 06:04:53 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA\AP91216na.D•

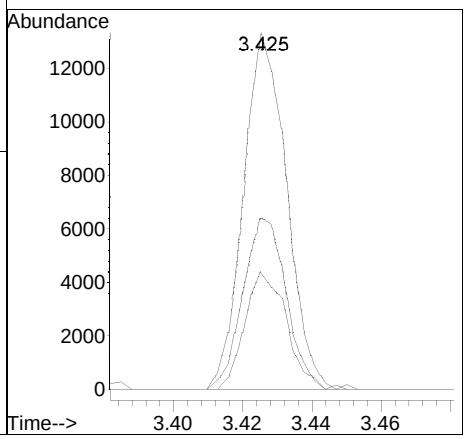


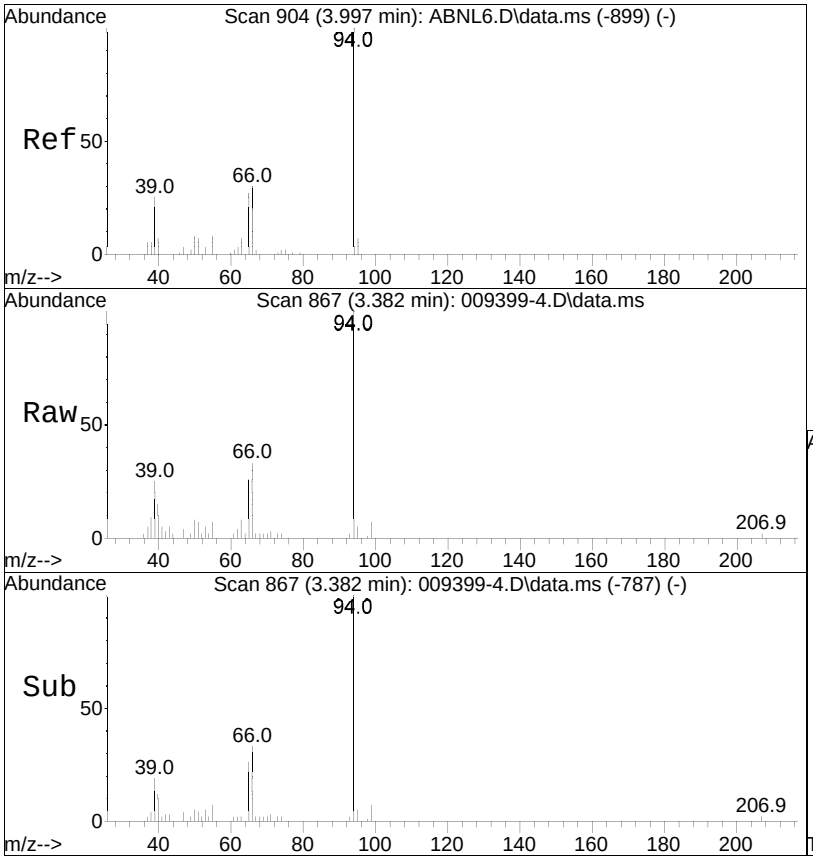


#6
2-Chlorophenol
Concen: 1.27 ug/ml
RT: 3.425 min Scan# 881
Delta R.T. 0.000 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:128 Resp: 11496

Ion	Ratio	Lower	Upper
128	100		
64	48.4	45.1	67.7
130	31.9	26.2	39.4

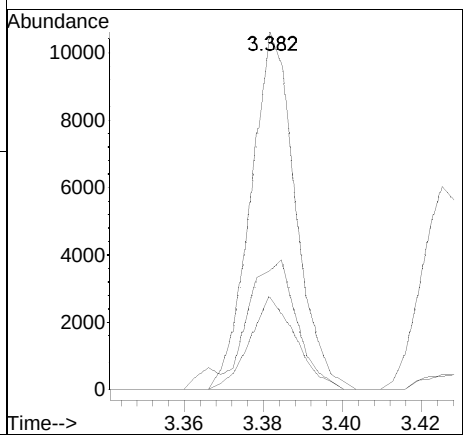


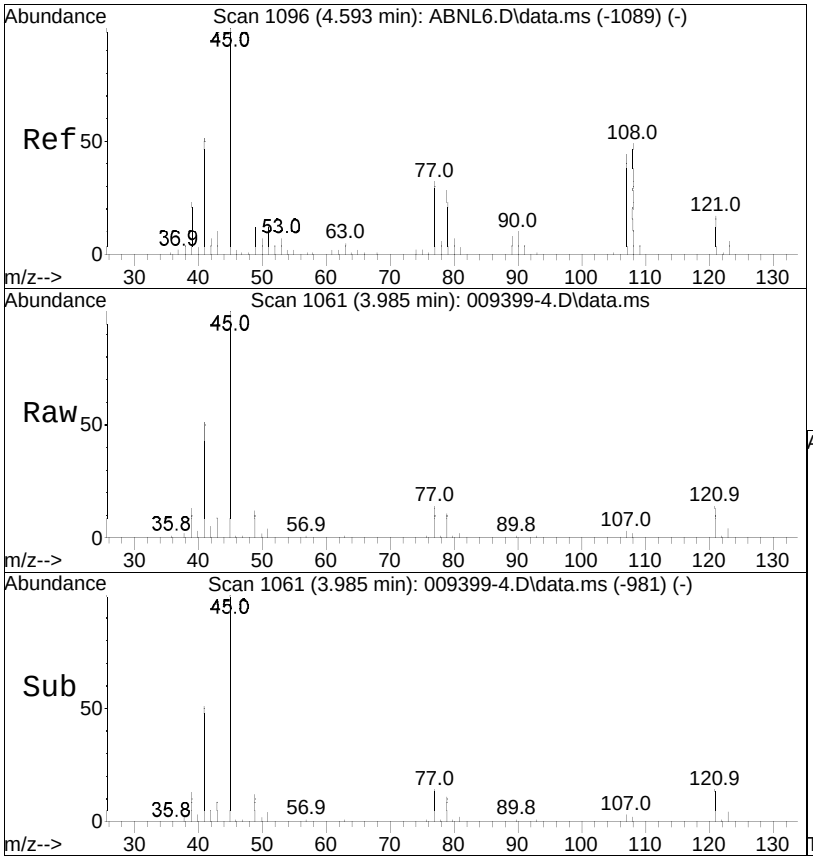


#8
Phenol
Concen: 0.79 ug/ml
RT: 3.382 min Scan# 867
Delta R.T. 0.000 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion: 94 Resp: 8366

Ion	Ratio	Lower	Upper
94	100		
65	26.6	26.0	39.0
66	42.3	33.8	50.8

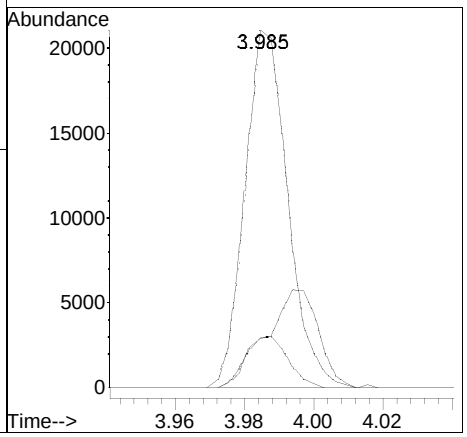


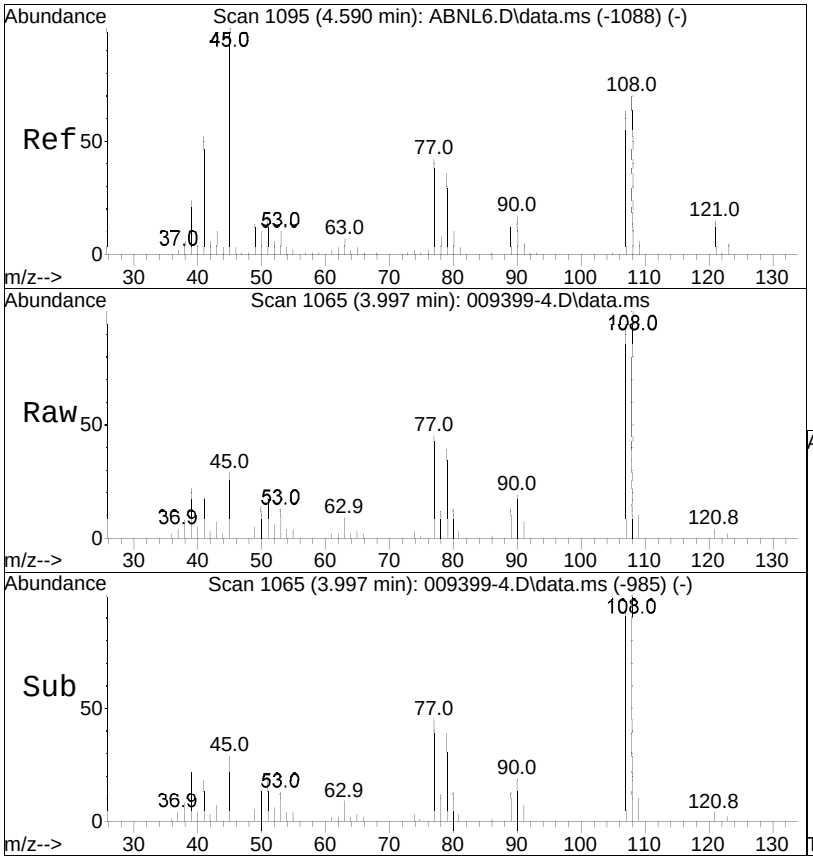


#14
Bis(2-chloroisopropyl)ether
Concen: 1.35 ug/ml
RT: 3.985 min Scan# 1061
Delta R.T. 0.000 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion: 45 Resp: 18006

Ion	Ratio	Lower	Upper
45	100		
121	14.3	9.8	14.6
77	34.2	6.1	9.1#

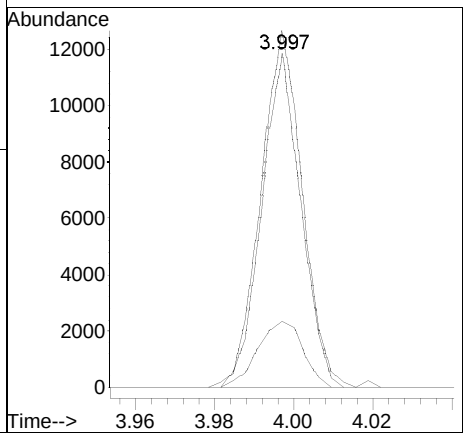


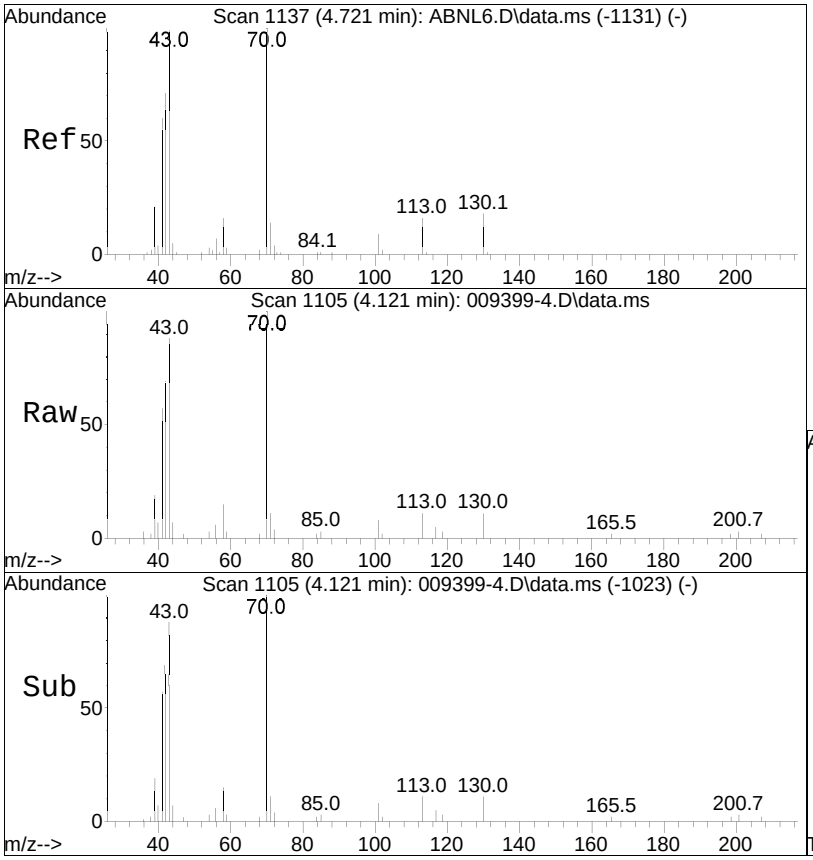


#15
2-Methylphenol
Concen: 1.15 ug/ml
RT: 3.997 min Scan# 1065
Delta R.T. 0.000 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:108 Resp: 9234

Ion	Ratio	Lower	Upper
108	100		
107	88.4	70.7	106.1
90	20.3	18.7	28.1

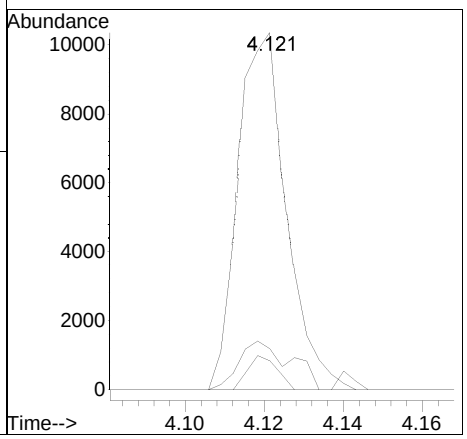


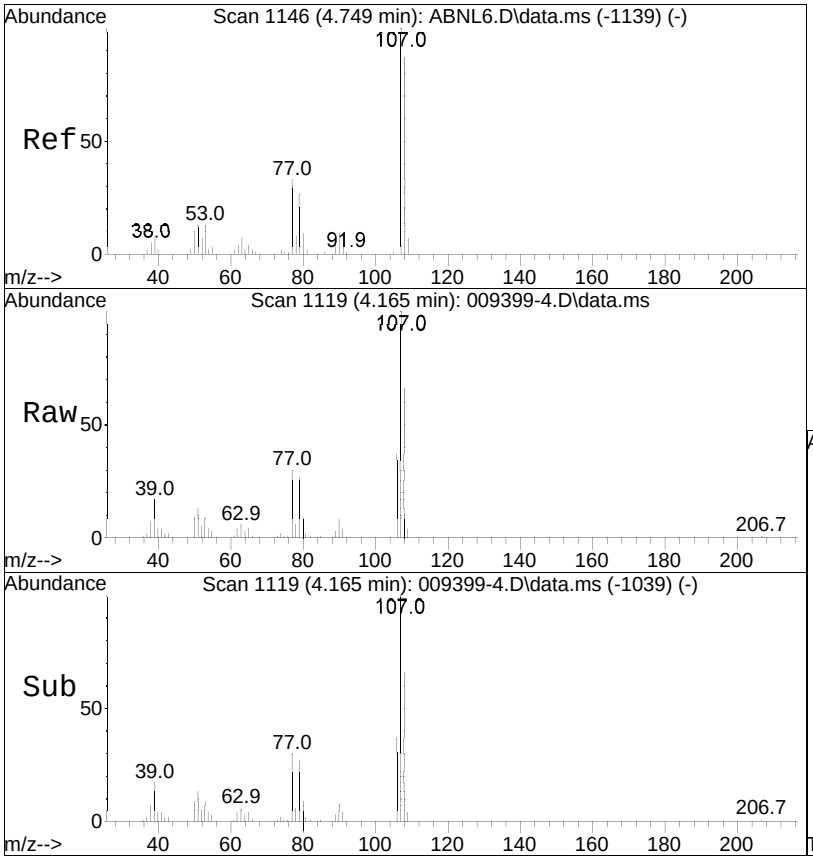


#17
n-Nitrosodi-n-propylamine
Concen: 1.37 ug/ml
RT: 4.121 min Scan# 1105
Delta R.T. 0.006 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion: 70 Resp: 8762

Ion	Ratio	Lower	Upper
70	100		
130	14.5	18.2	27.4#
101	5.8	7.8	11.8#

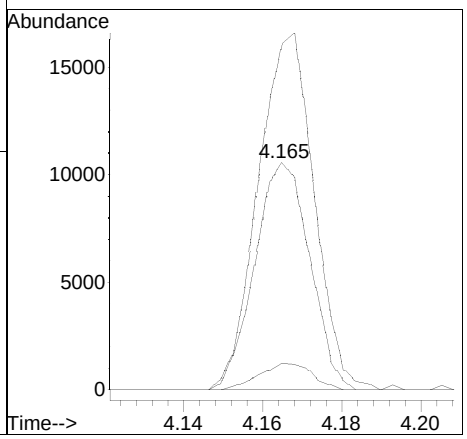


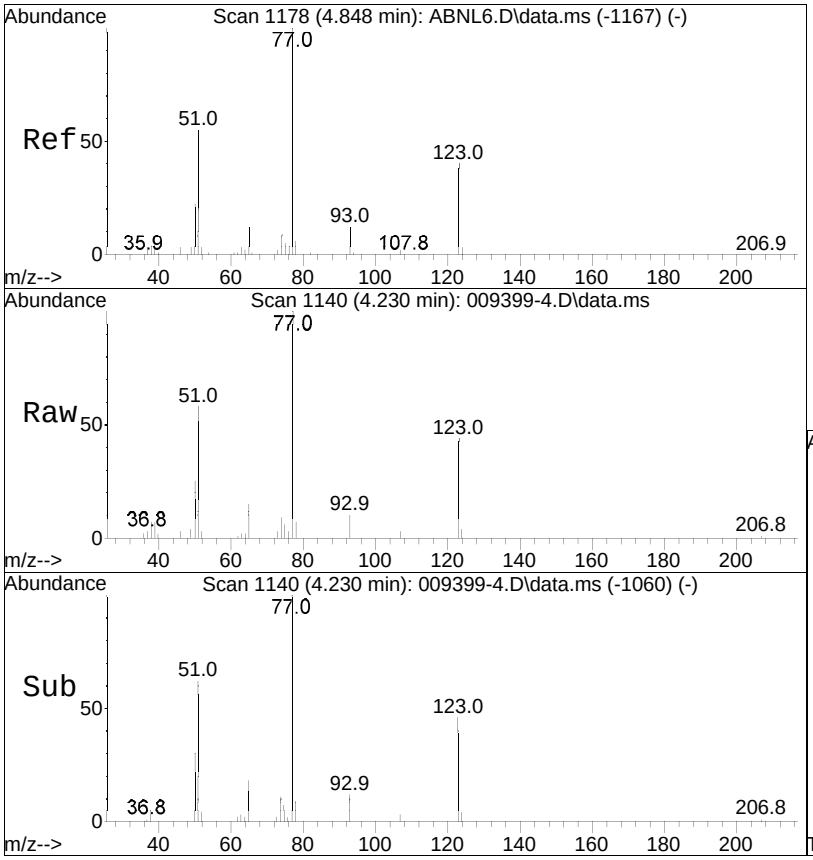


#18
3-Methylphenol/4-Methylphenol
Concen: 1.16 ug/ml
RT: 4.165 min Scan# 1119
Delta R.T. 0.000 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:108 Resp: 10191

Ion	Ratio	Lower	Upper
108	100		
107	159.2	88.6	132.8#
90	11.2	8.8	13.2

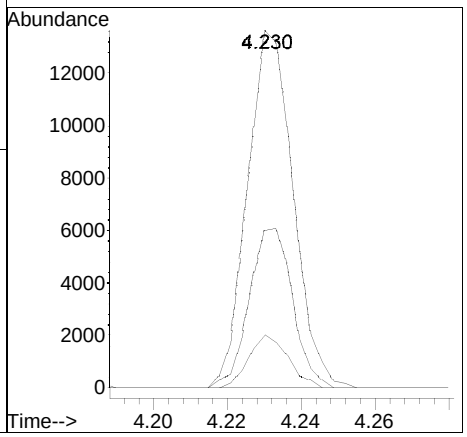


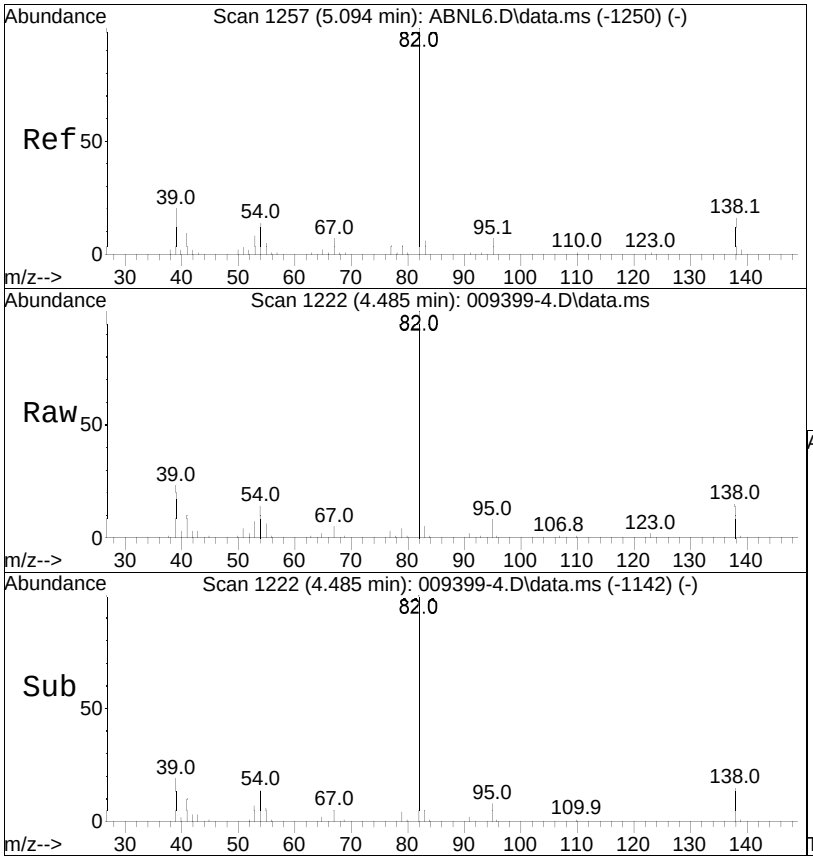


#20
Nitrobenzene
Concen: 1.29 ug/ml
RT: 4.230 min Scan# 1140
Delta R.T. 0.000 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion: 77 Resp: 11671

Ion	Ratio	Lower	Upper
77	100		
123	42.4	36.3	54.5
65	12.8	11.6	17.4

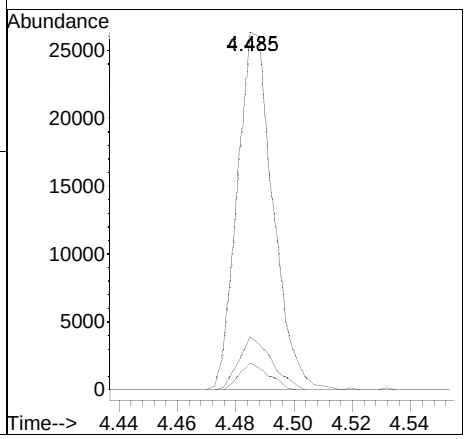


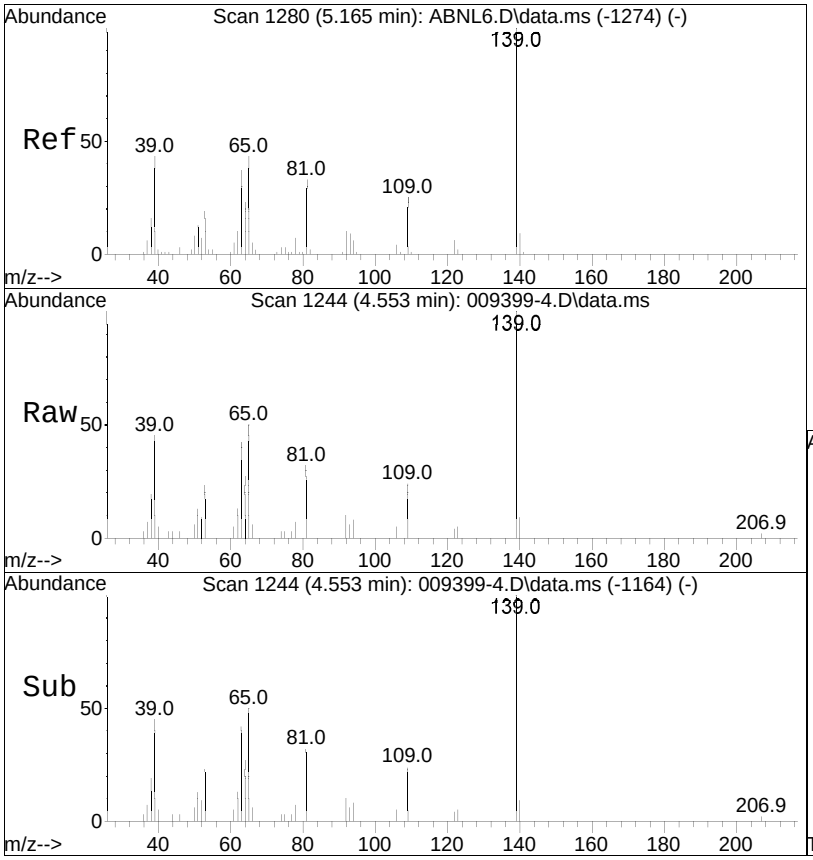


#21
Isophorone
Concen: 1.33 ug/ml
RT: 4.485 min Scan# 1222
Delta R.T. 0.000 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion: 82 Resp: 22232

Ion	Ratio	Lower	Upper
82	100		
138	13.8	14.7	22.1#
95	6.3	5.2	7.8

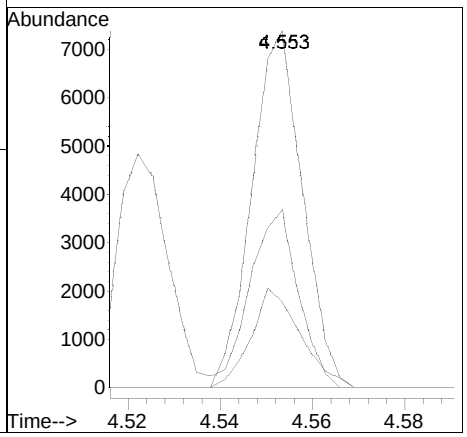


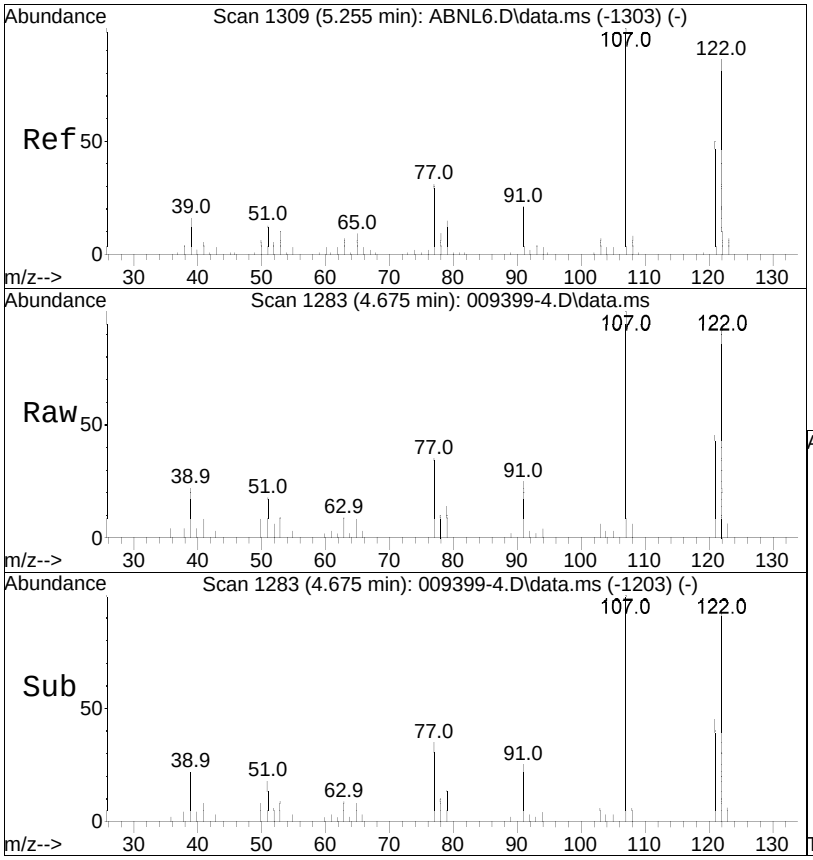


#22
2-Nitrophenol
Concen: 1.23 ug/ml
RT: 4.553 min Scan# 1244
Delta R.T. 0.000 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:139 Resp: 5623

Ion	Ratio	Lower	Upper
139	100		
109	27.2	19.4	29.0
65	47.8	46.1	69.1

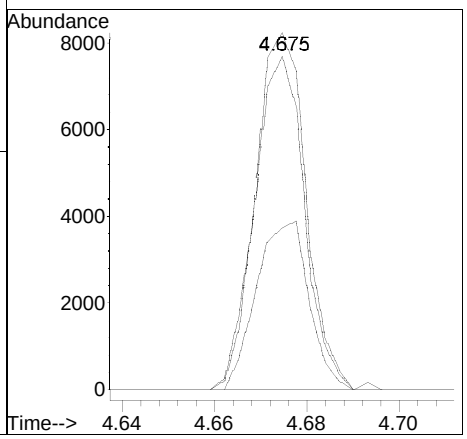


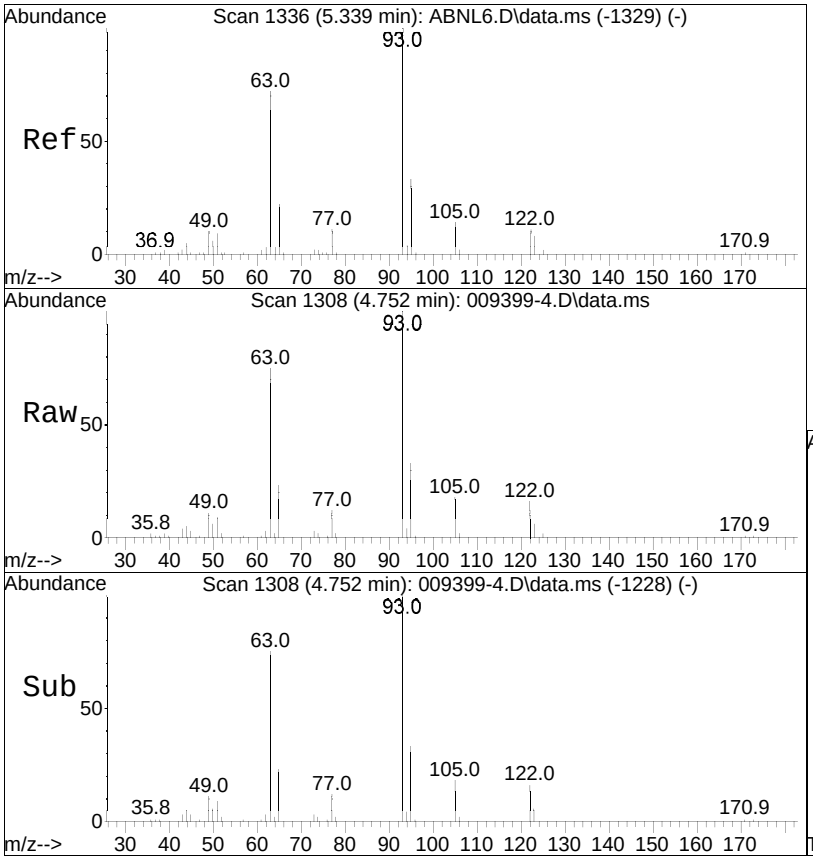


#23
2,4-Dimethylphenol
Concen: 0.77 ug/ml
RT: 4.675 min Scan# 1283
Delta R.T. 0.000 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:107 Resp: 6302

Ion	Ratio	Lower	Upper
107	100		
121	48.6	40.0	60.0
122	91.1	70.2	105.4

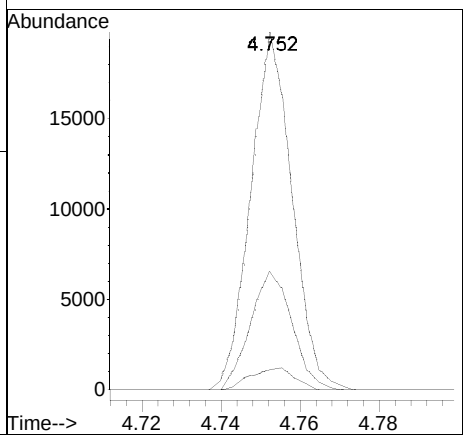


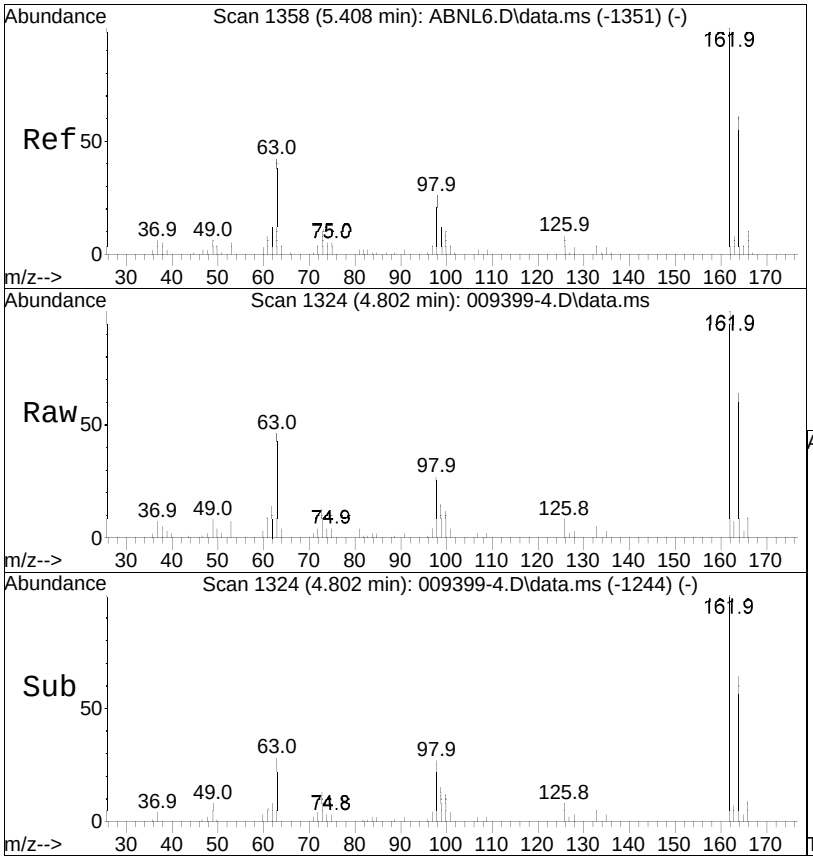


#24
Bis(2-chloroethoxy)methane
Concen: 1.37 ug/ml
RT: 4.752 min Scan# 1308
Delta R.T. 0.000 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion: 93 Resp: 14254

Ion	Ratio	Lower	Upper
93	100		
95	33.6	25.8	38.8
123	6.7	10.1	15.1#

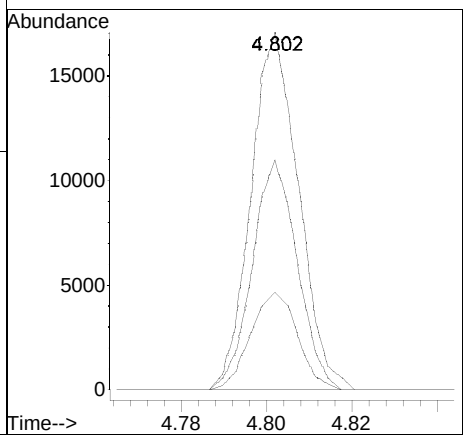


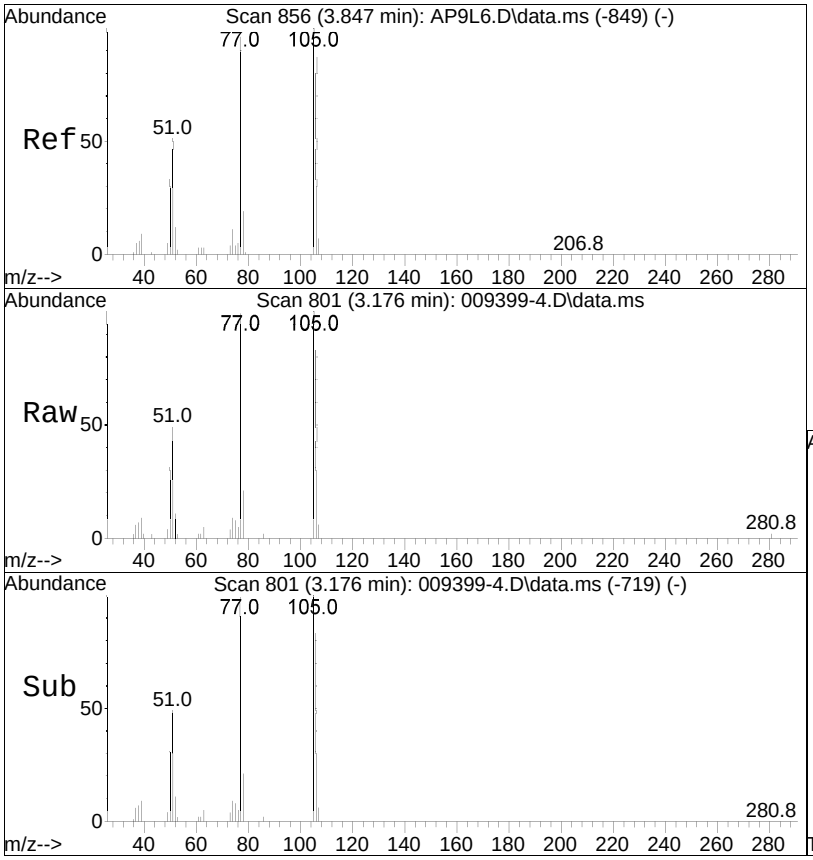


#25
2,4-Dichlorophenol
Concen: 1.38 ug/ml
RT: 4.802 min Scan# 1324
Delta R.T. 0.000 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:162 Resp: 13141

Ion	Ratio	Lower	Upper
162	100		
164	60.9	51.0	76.4
98	27.0	32.2	48.2#

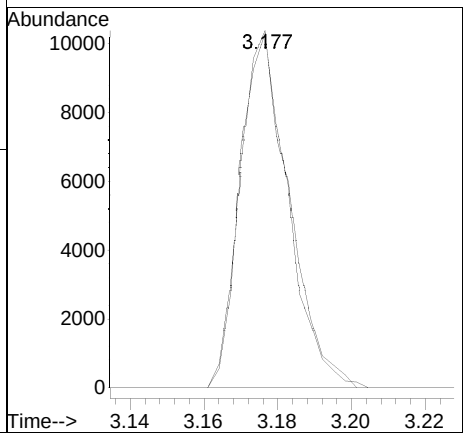


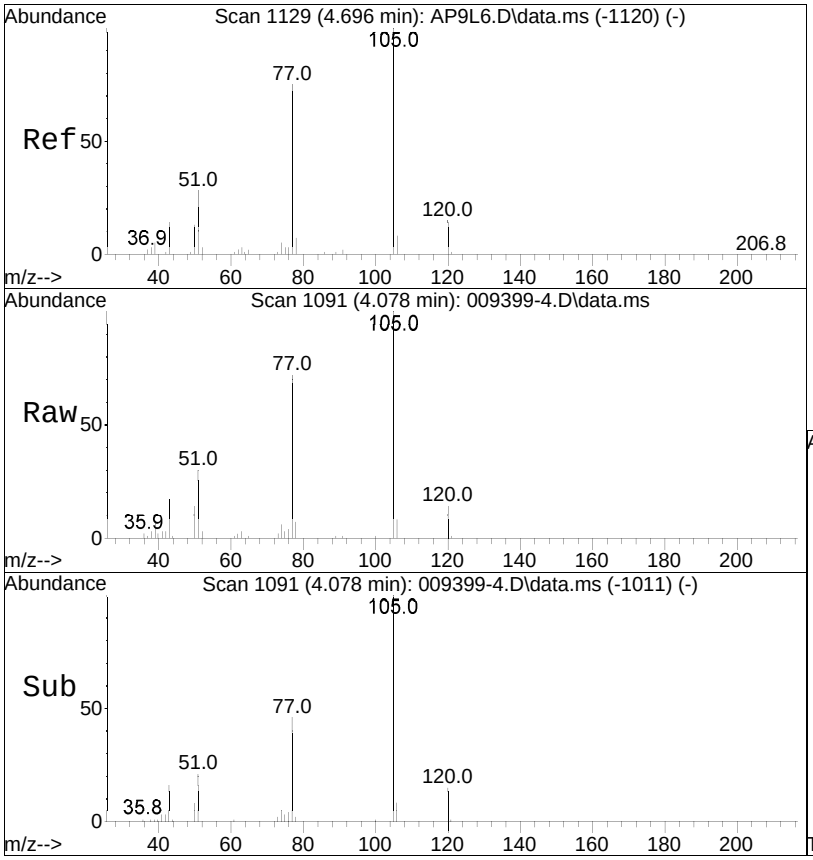


#28
Benzaldehyde
Concen: 1.83 ug/ml
RT: 3.176 min Scan# 801
Delta R.T. 0.006 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:105 Resp: 9526

Ion	Ratio	Lower	Upper
105	100		
77	97.1	82.2	123.4

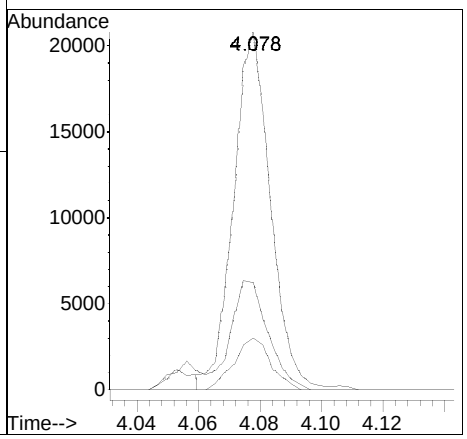


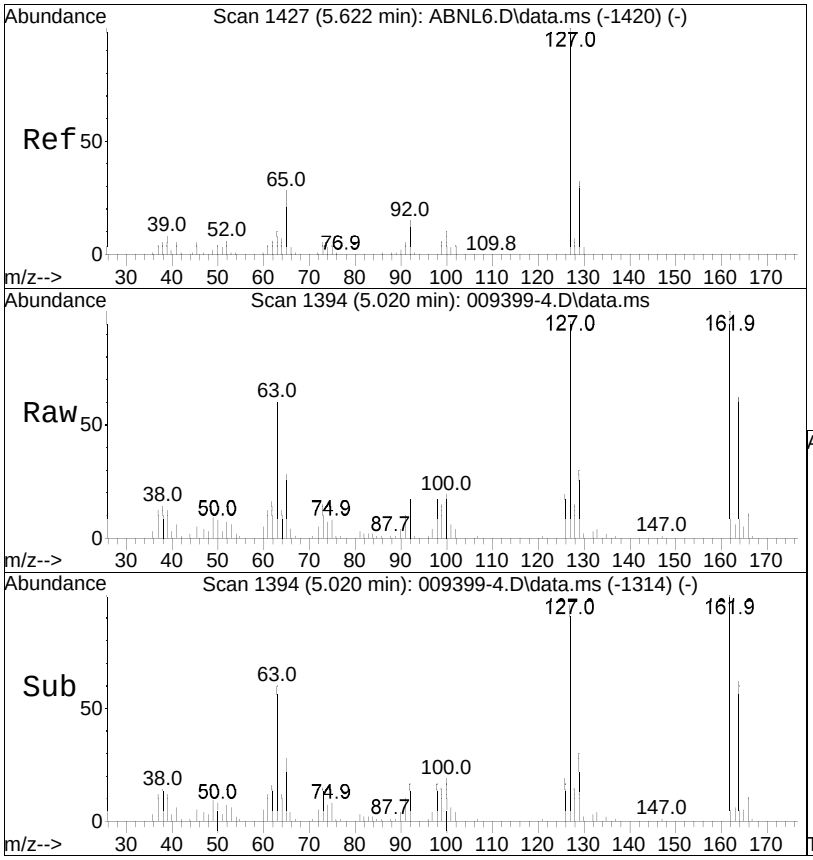


#29
Acetophenone
Concen: 1.66 ug/ml
RT: 4.078 min Scan# 1091
Delta R.T. 0.000 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:105 Resp: 17281

Ion	Ratio	Lower	Upper
105	100		
120	14.4	20.5	30.7#
51	30.8	34.9	52.3#

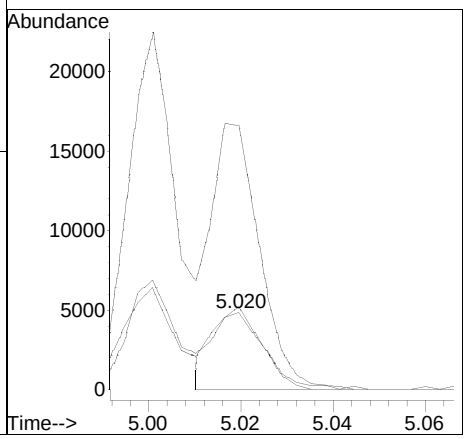


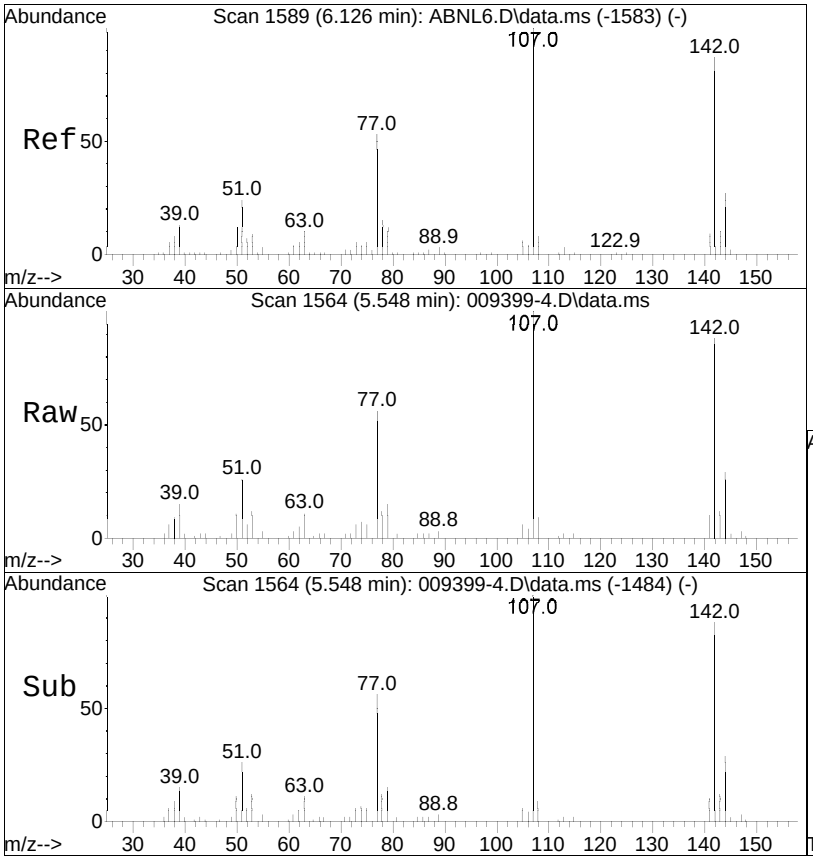


#40
4-Chloroaniline
Concen: 1.13 ug/ml
RT: 5.020 min Scan# 1394
Delta R.T. 0.000 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion: 65 Resp: 3884

Ion	Ratio	Lower	Upper
65	100		
127	312.5	237.6	356.4
129	95.6	76.3	114.5

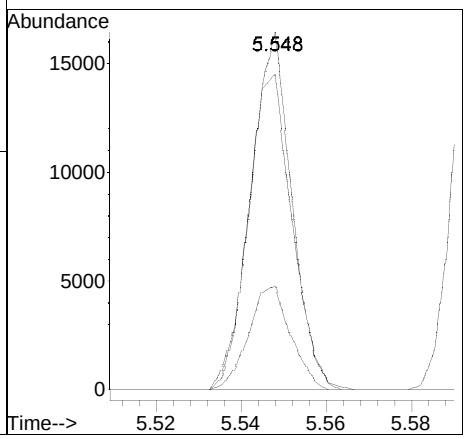


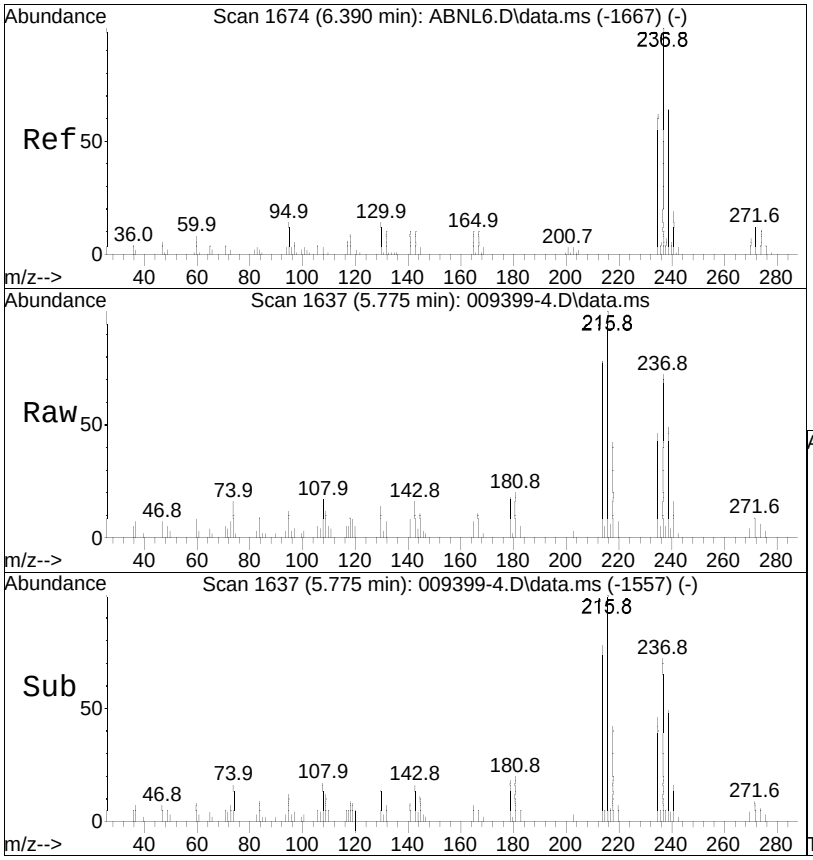


#42
p-Chloro-m-cresol
Concen: 1.34 ug/ml
RT: 5.548 min Scan# 1564
Delta R.T. 0.000 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:107 Resp: 11024

Ion	Ratio	Lower	Upper
107	100		
144	29.8	20.9	31.3
142	94.2	66.1	99.1

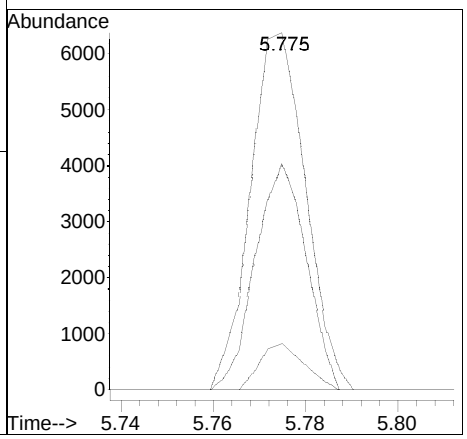


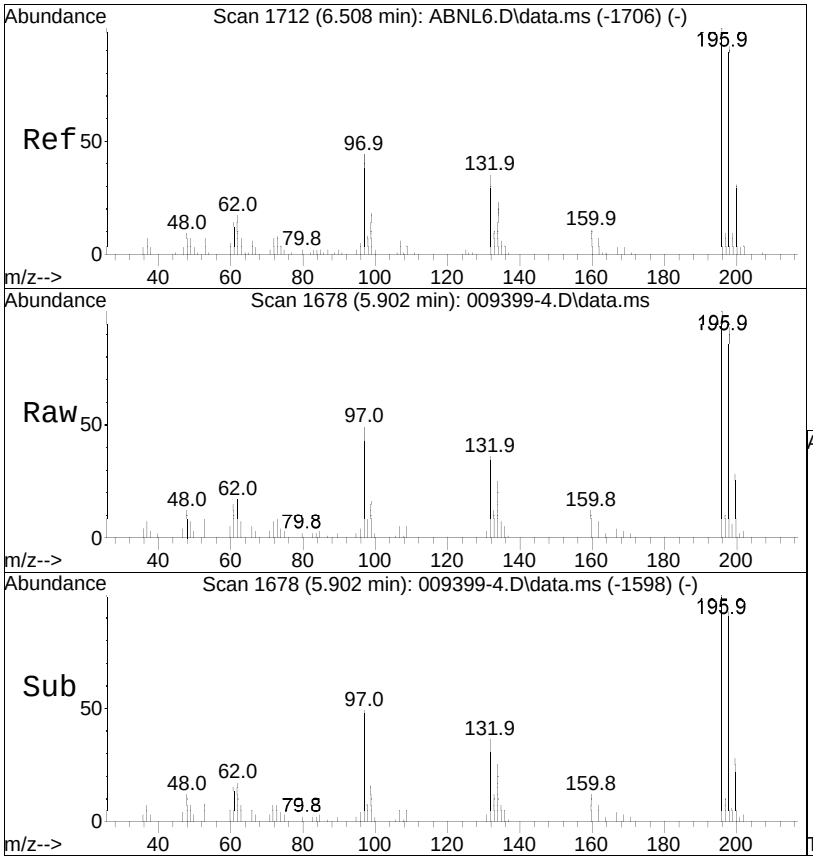


#45
Hexachlorocyclopentadiene
Concen: 0.68 ug/ml
RT: 5.775 min Scan# 1637
Delta R.T. 0.000 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:237 Resp: 5279

Ion	Ratio	Lower	Upper
237	100		
235	58.5	49.7	74.5
272	10.5	9.8	14.6

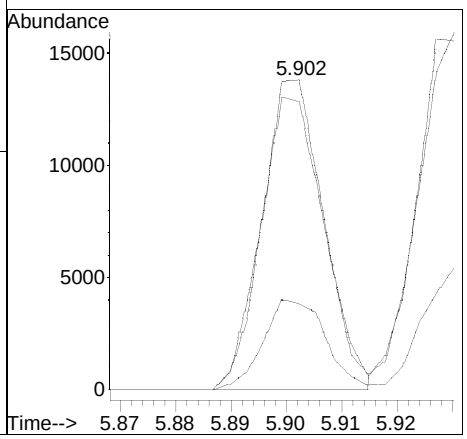


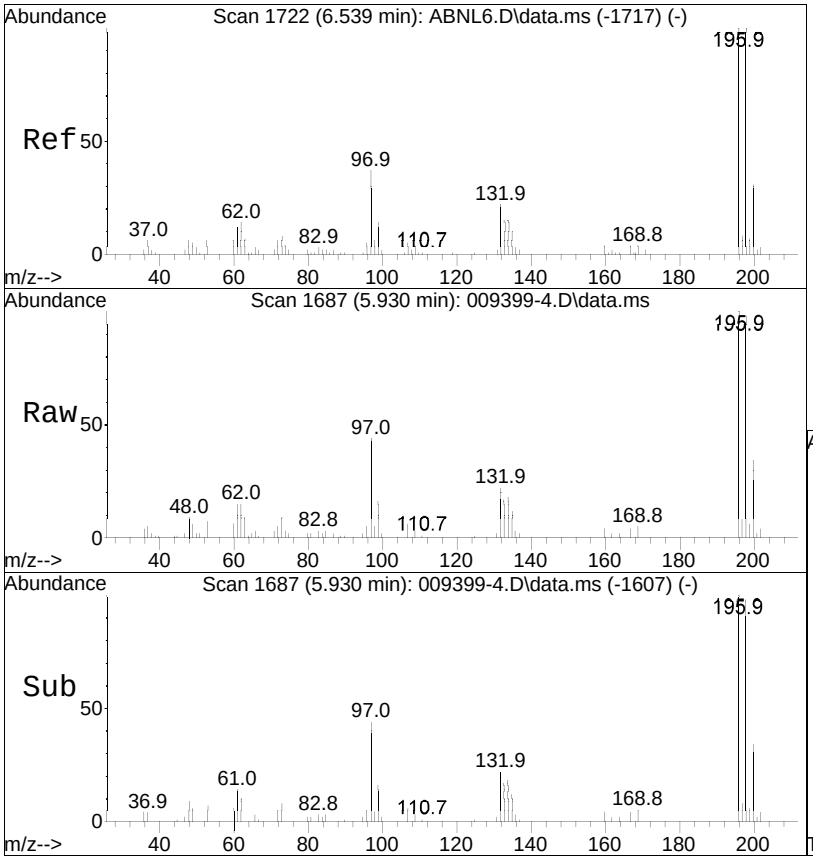


#46
2,4,6-Trichlorophenol
Concen: 1.32 ug/ml
RT: 5.902 min Scan# 1678
Delta R.T. 0.000 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:196 Resp: 10744

Ion	Ratio	Lower	Upper
196	100		
198	95.9	77.5	116.3
200	29.2	23.8	35.6

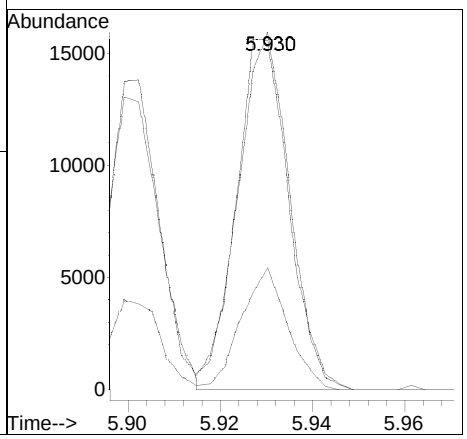


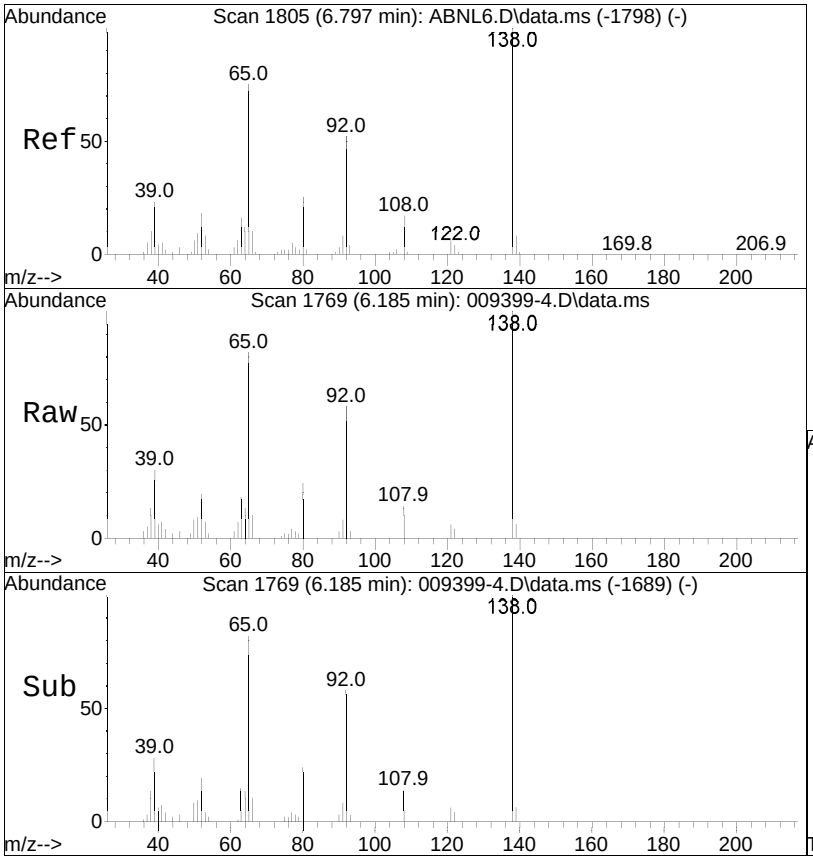


#47
2,4,5-Trichlorophenol
Concen: 1.35 ug/ml
RT: 5.930 min Scan# 1687
Delta R.T. 0.000 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:196 Resp: 12283

Ion	Ratio	Lower	Upper
196	100		
200	31.2	25.4	38.0
198	100.6	78.0	117.0

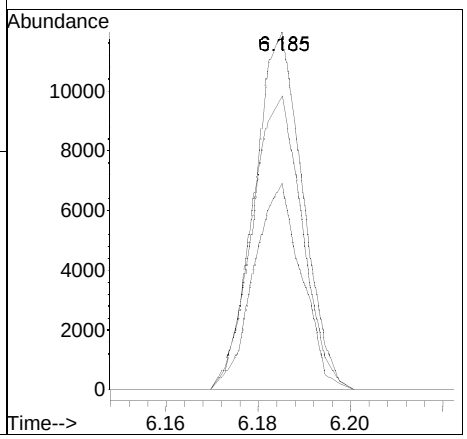


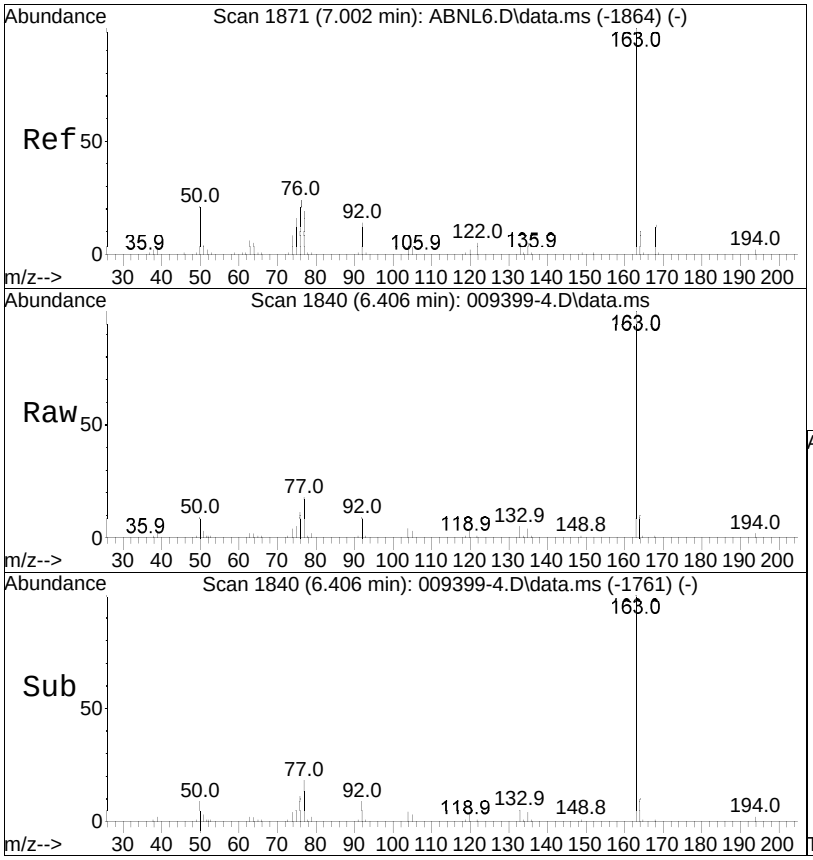


#50
2-Nitroaniline
Concen: 1.39 ug/ml
RT: 6.185 min Scan# 1769
Delta R.T. 0.000 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:138 Resp: 8589

Ion	Ratio	Lower	Upper
138	100		
92	57.9	53.5	80.3
65	86.8	86.3	129.5

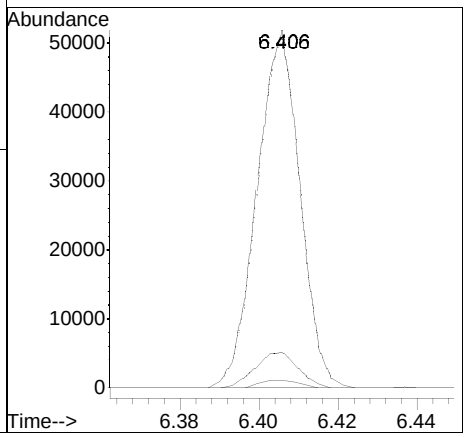


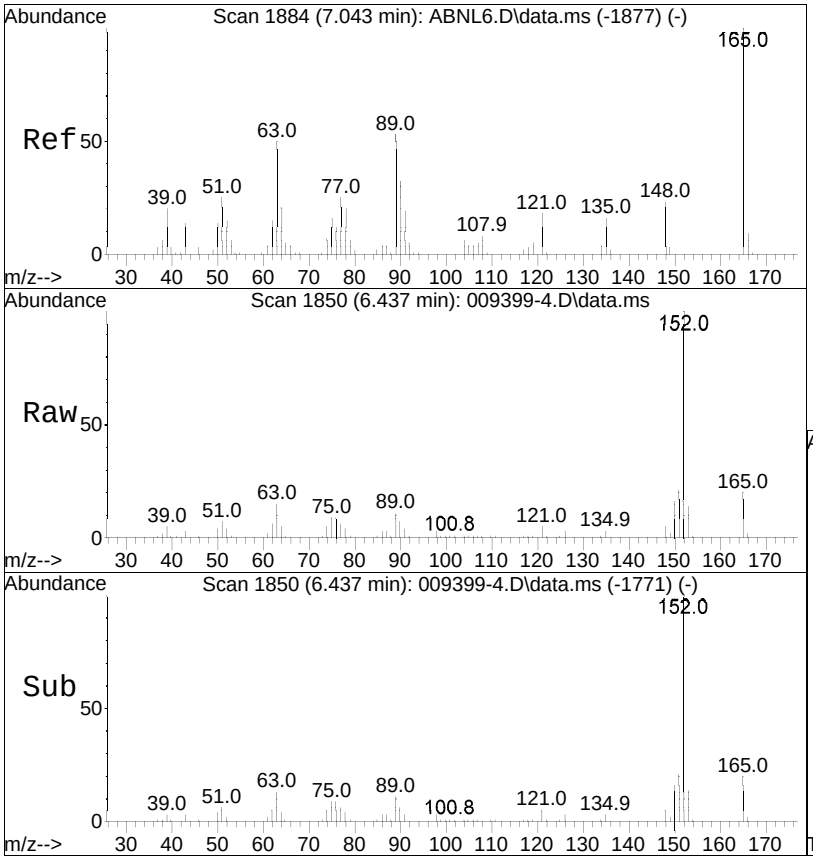


#53
Dimethyl phthalate
Concen: 1.37 ug/ml
RT: 6.406 min Scan# 1840
Delta R.T. -0.003 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:163 Resp: 38585

Ion	Ratio	Lower	Upper
163	100		
194	2.0	3.5	5.3#
164	10.1	7.9	11.9

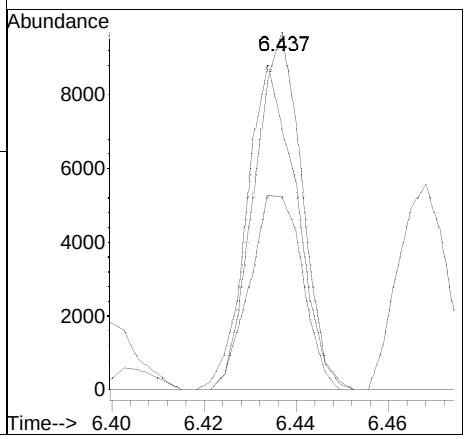


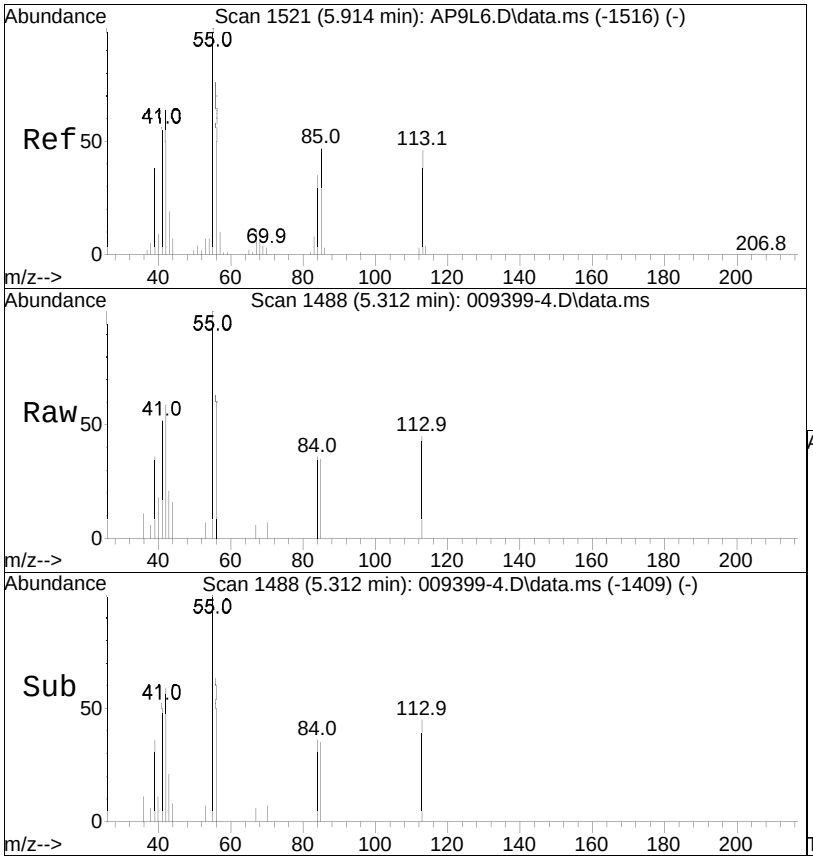


#55
2,6-Dinitrotoluene
Concen: 1.33 ug/ml
RT: 6.437 min Scan# 1850
Delta R.T. -0.003 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:165 Resp: 6952

Ion	Ratio	Lower	Upper
165	100		
89	60.3	54.2	81.2
63	94.8	64.2	96.2

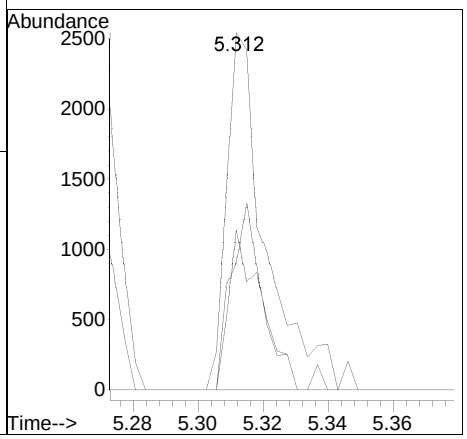


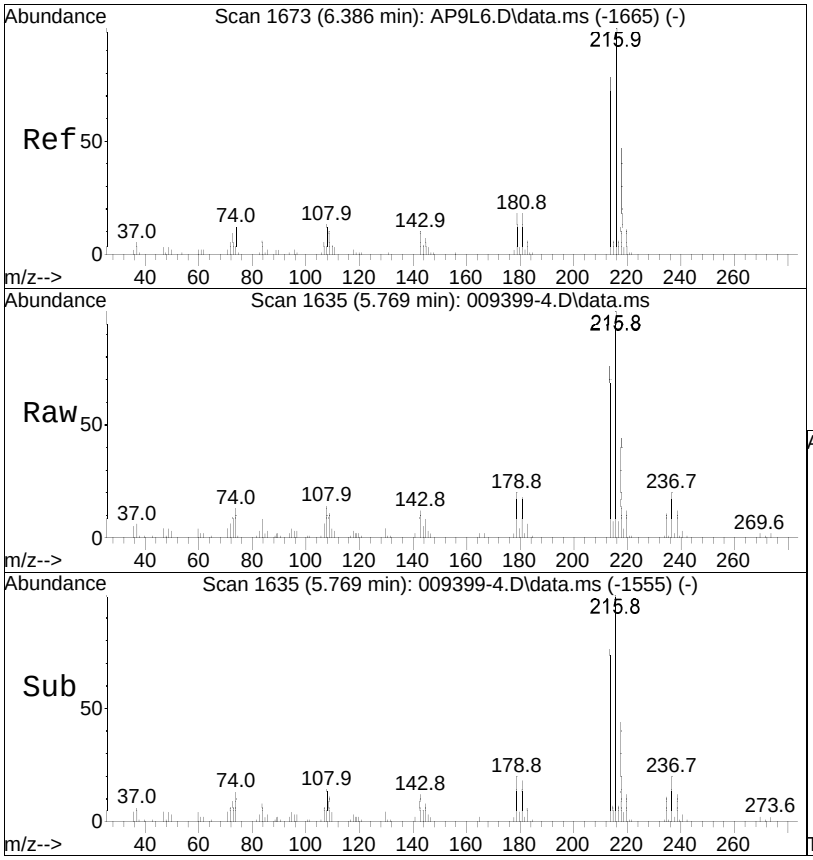


#62
Caprolactam
Concen: 0.62 ug/ml
RT: 5.312 min Scan# 1488
Delta R.T. -0.003 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion: 55 Resp: 2142

Ion	Ratio	Lower	Upper
55	100		
85	41.9	19.8	29.6#
113	37.3	29.6	44.4

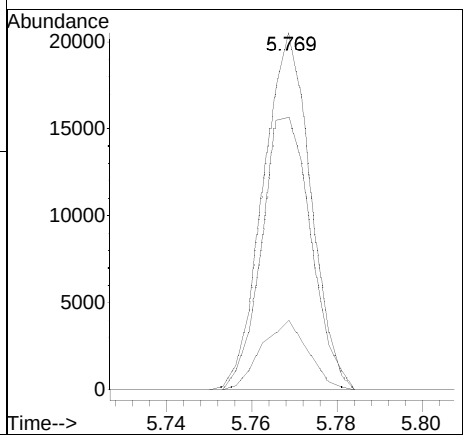


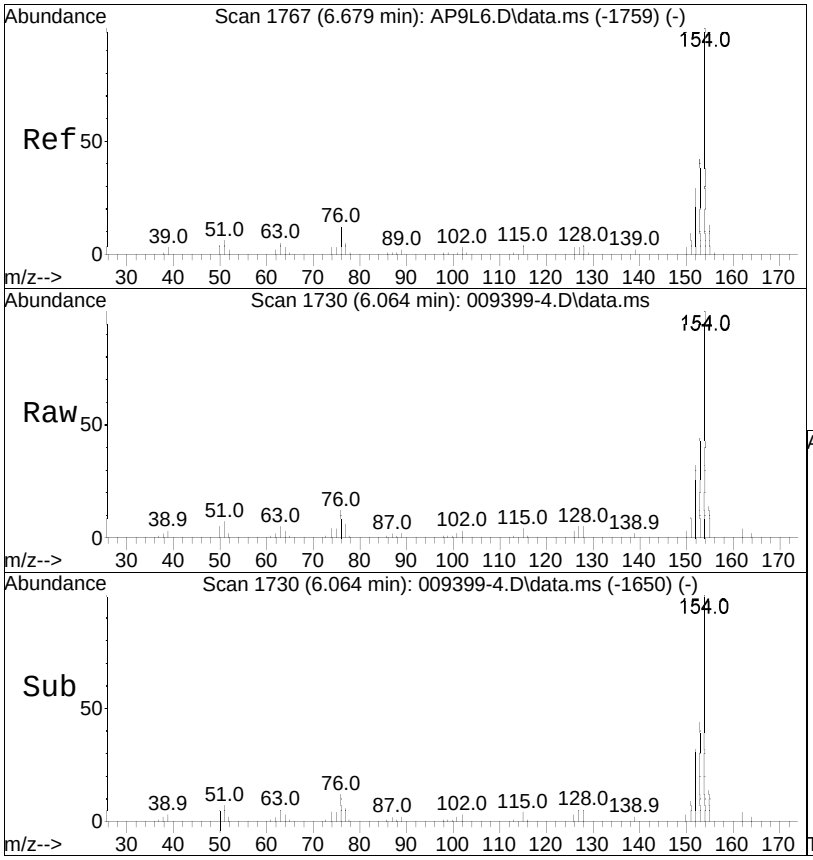


#63
1,2,4,5-Tetrachlorobenzene
Concen: 1.35 ug/ml
RT: 5.769 min Scan# 1635
Delta R.T. 0.000 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:216 Resp: 15803

Ion	Ratio	Lower	Upper
216	100		
214	79.5	63.7	95.5
179	19.2	19.0	28.6

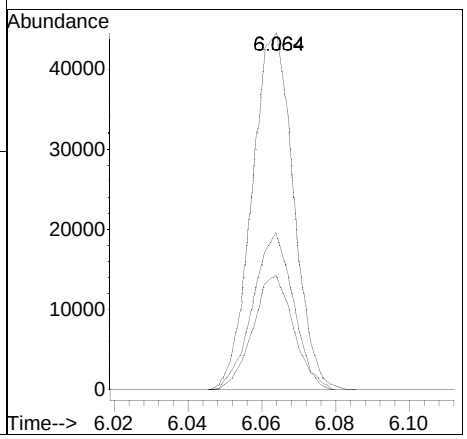


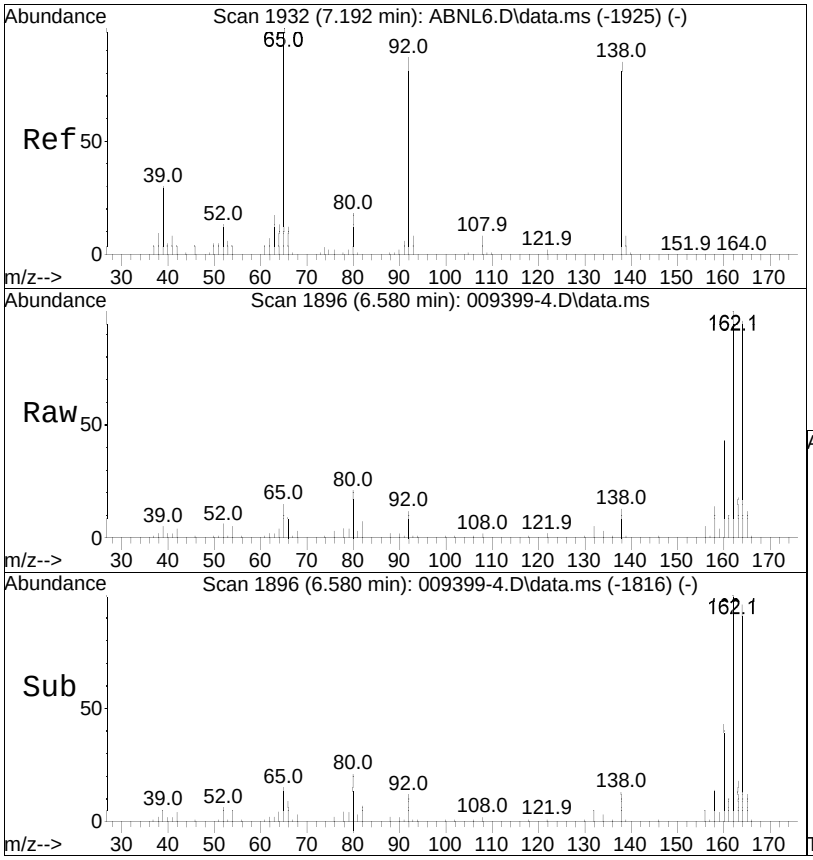


#64
Biphenyl
Concen: 1.45 ug/ml
RT: 6.064 min Scan# 1730
Delta R.T. 0.000 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:154 Resp: 34617

Ion	Ratio	Lower	Upper
154	100		
153	43.2	32.3	48.5
152	31.5	22.5	33.7

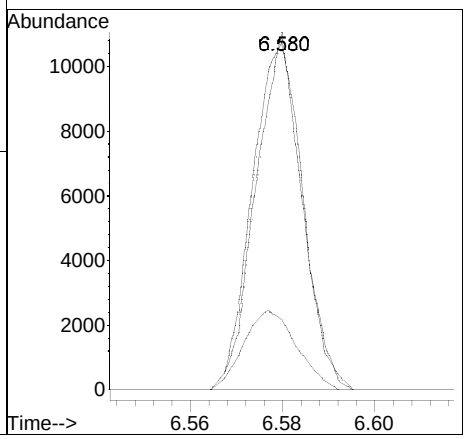


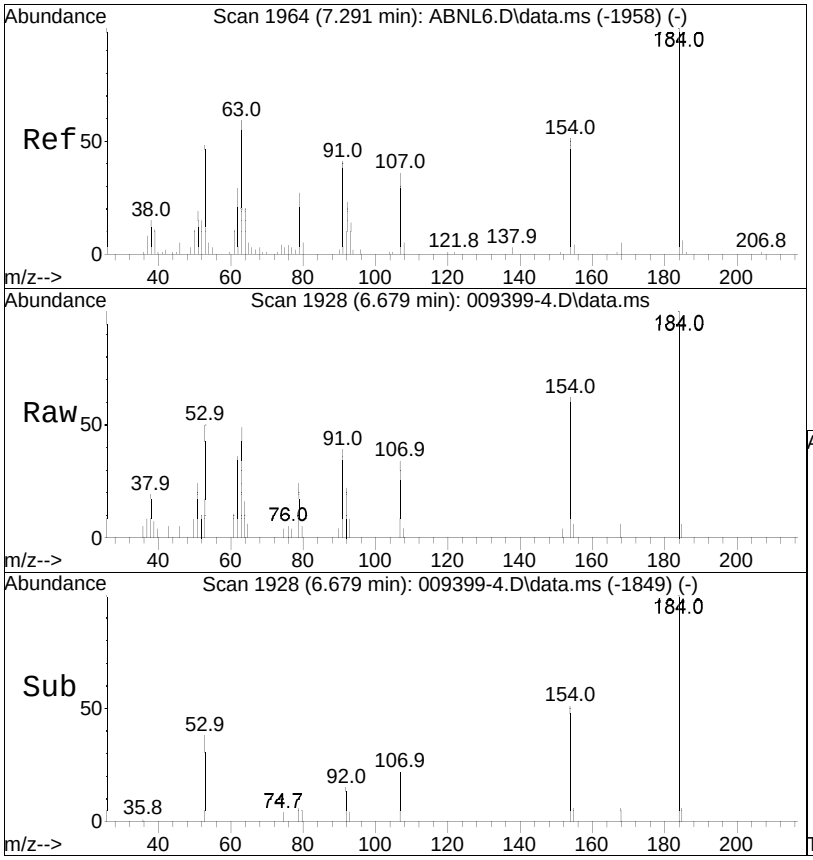


#66
3-Nitroaniline
Concen: 1.31 ug/ml
RT: 6.580 min Scan# 1896
Delta R.T. 0.000 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:138 Resp: 7553

Ion	Ratio	Lower	Upper
138	100		
92	107.0	93.4	140.2
108	25.8	9.5	14.3#

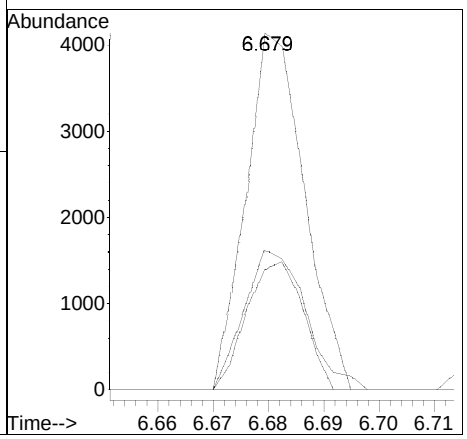


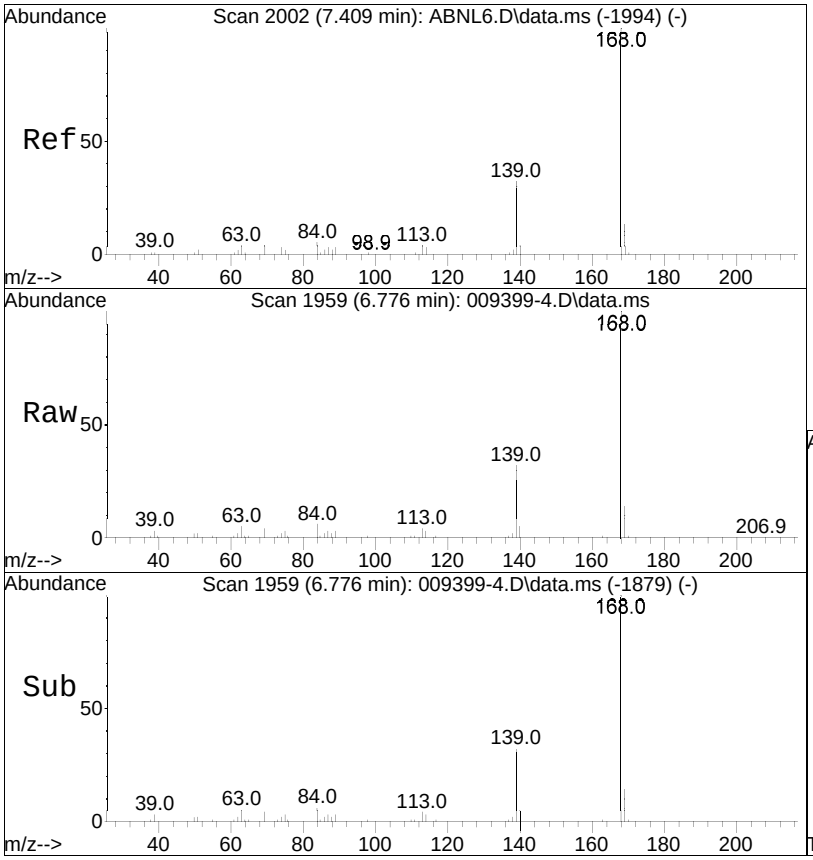


#68
2,4-Dinitrophenol
Concen: 0.86 ug/ml
RT: 6.679 min Scan# 1928
Delta R.T. -0.003 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:184 Resp: 3019

Ion	Ratio	Lower	Upper
184	100		
107	34.9	37.7	56.5#
91	41.2	46.3	69.5#

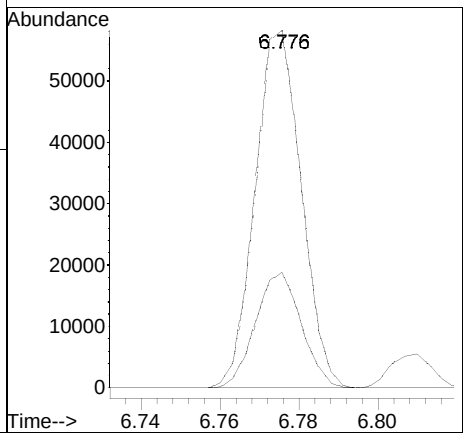


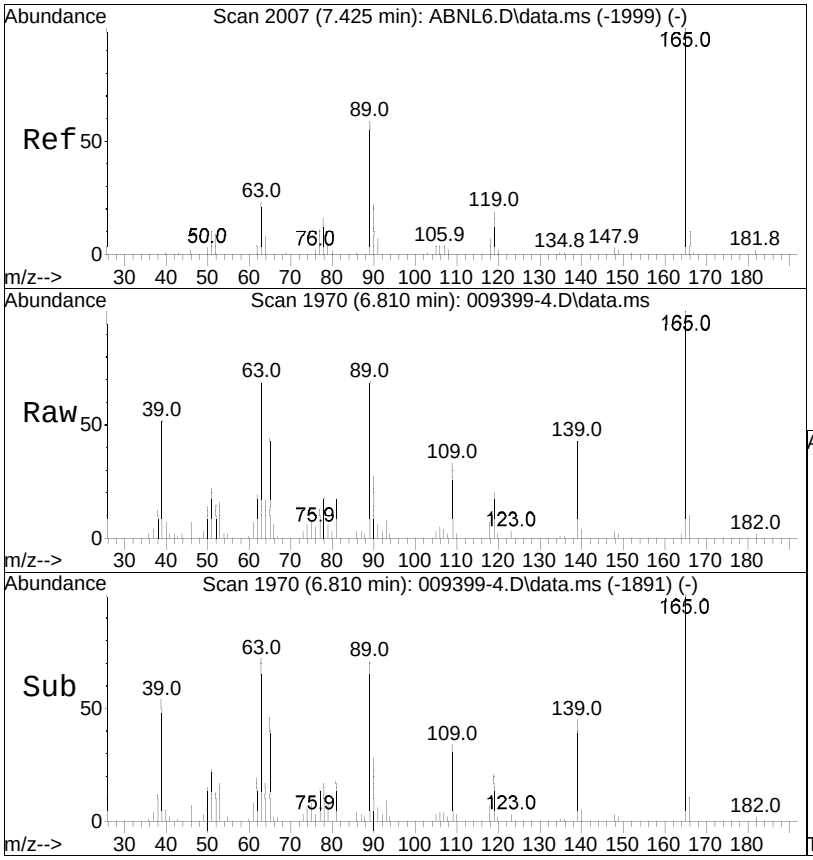


#69
Dibenzofuran
Concen: 1.24 ug/ml
RT: 6.776 min Scan# 1959
Delta R.T. 0.000 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:168 Resp: 46750

Ion	Ratio	Lower	Upper
168	100		
139	32.3	31.4	47.2

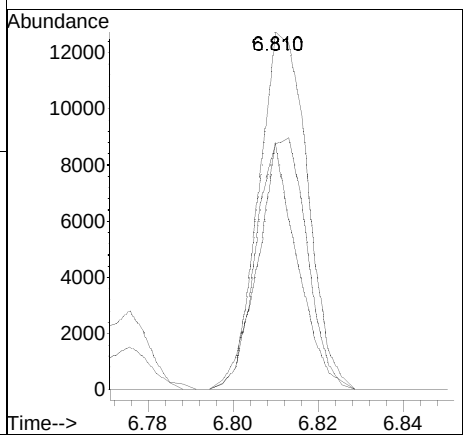


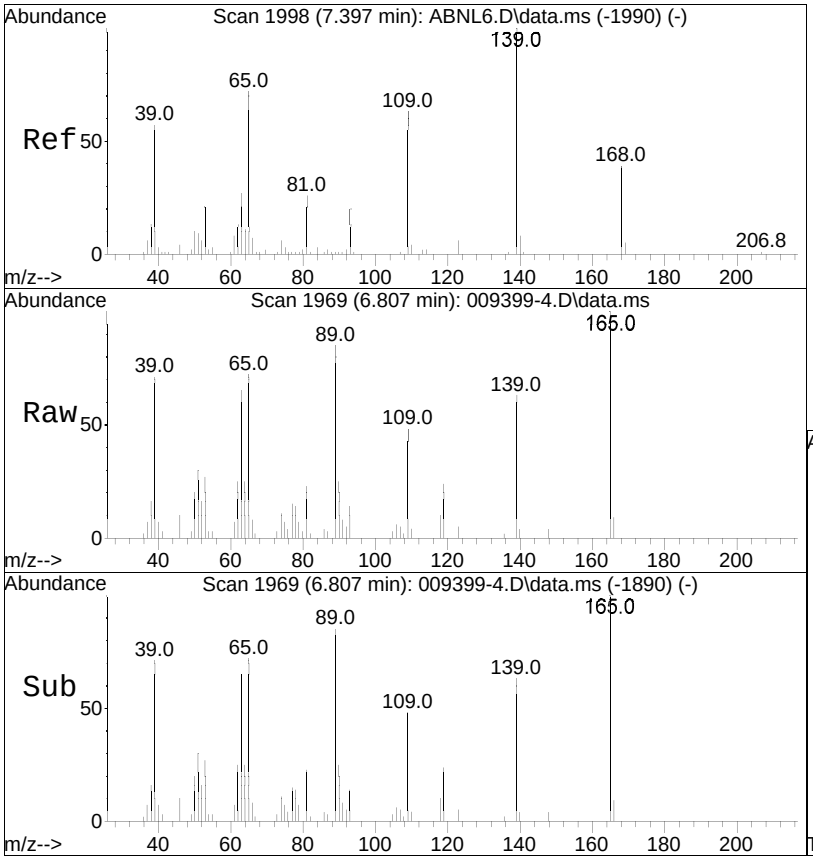


#70
2,4-Dinitrotoluene
Concen: 1.39 ug/ml
RT: 6.810 min Scan# 1970
Delta R.T. -0.003 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:165 Resp: 10080

Ion	Ratio	Lower	Upper
165	100		
89	72.4	72.0	108.0
63	57.5	52.7	79.1

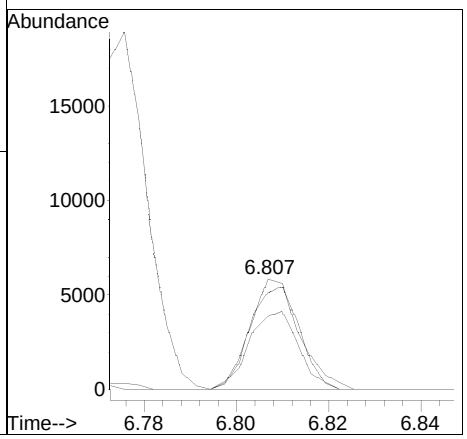


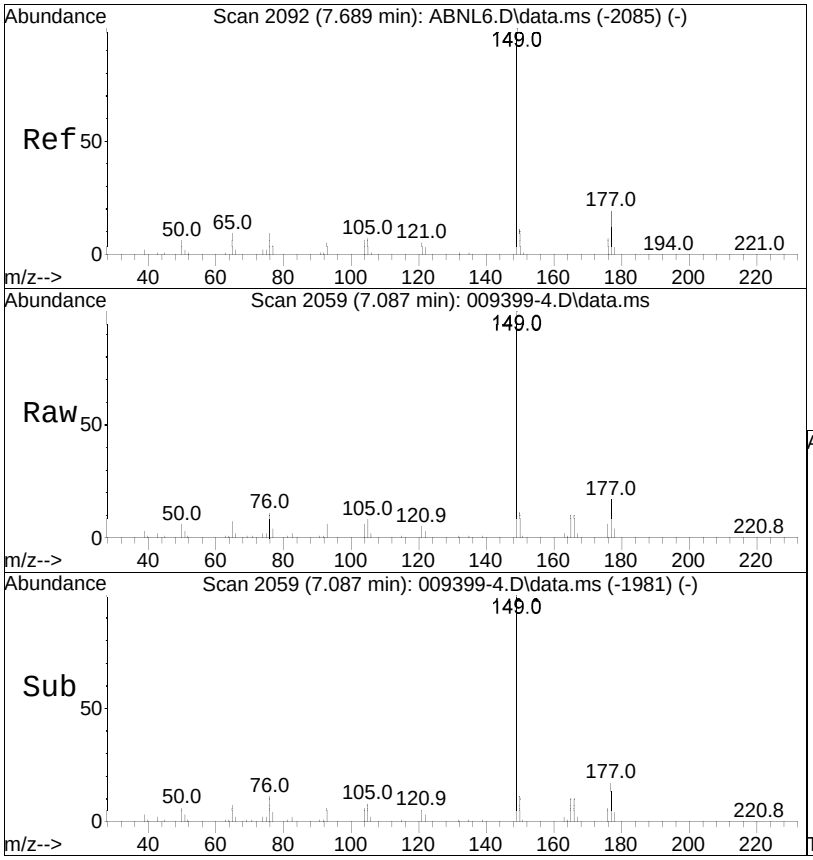


#71
4-Nitrophenol
Concen: 1.01 ug/ml
RT: 6.807 min Scan# 1969
Delta R.T. -0.003 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion: 65 Resp: 4356

Ion	Ratio	Lower	Upper
65	100		
109	71.0	47.4	71.2
139	93.5	76.6	115.0

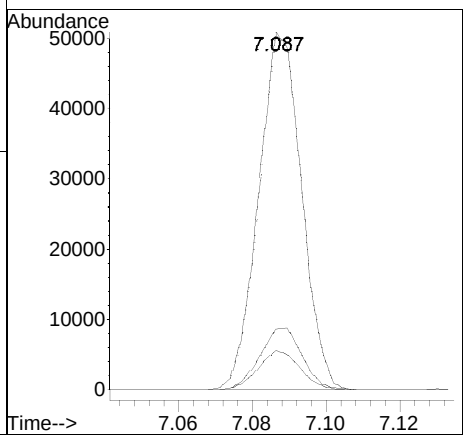


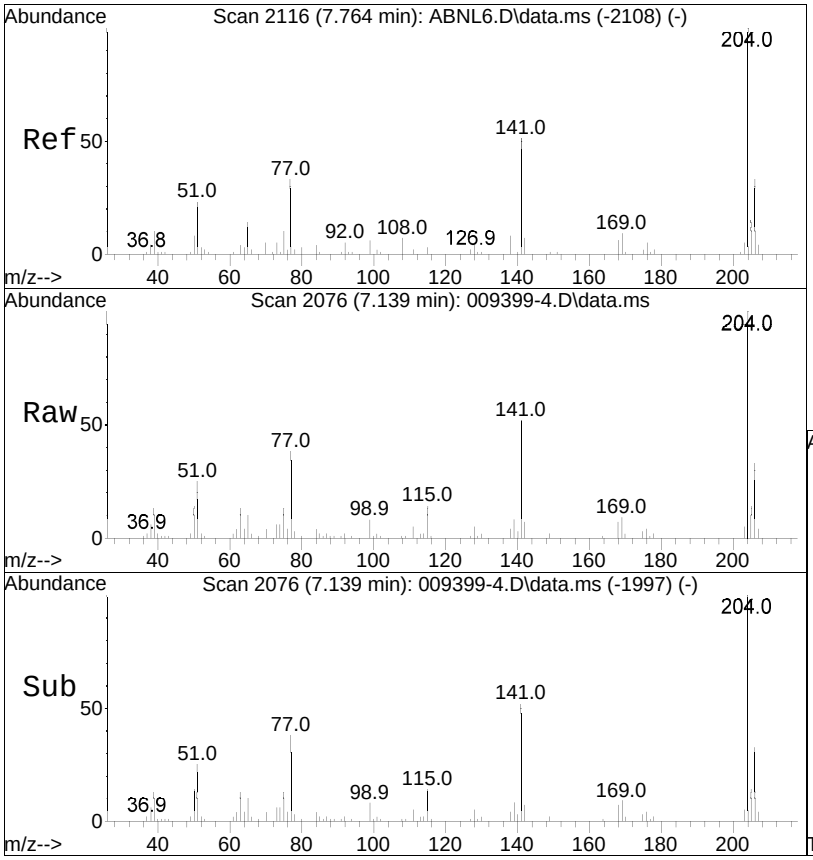


#74
Diethyl phthalate
Concen: 1.38 ug/ml
RT: 7.087 min Scan# 2059
Delta R.T. -0.006 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:149 Resp: 40582

Ion	Ratio	Lower	Upper
149	100		
177	17.3	16.1	24.1
150	10.9	9.4	14.2

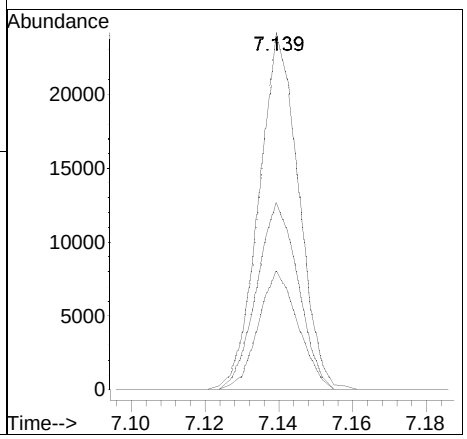


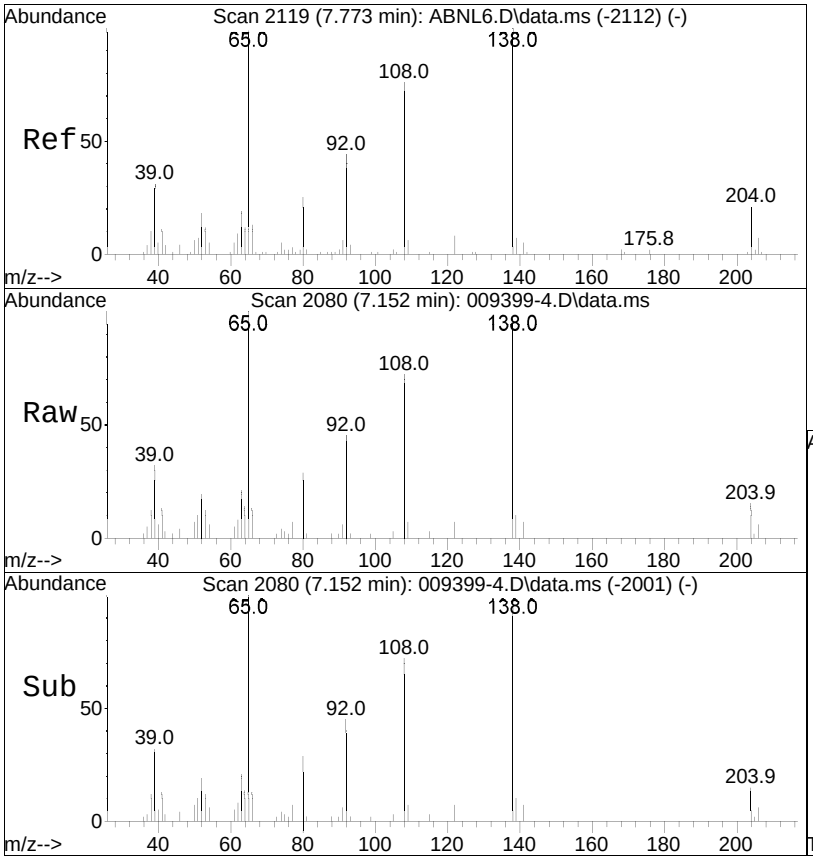


#76
4-Chlorophenyl phenyl ether
Concen: 1.21 ug/ml
RT: 7.139 min Scan# 2076
Delta R.T. -0.003 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:204 Resp: 17962

Ion	Ratio	Lower	Upper
204	100		
206	33.3	25.8	38.6
141	54.6	53.6	80.4

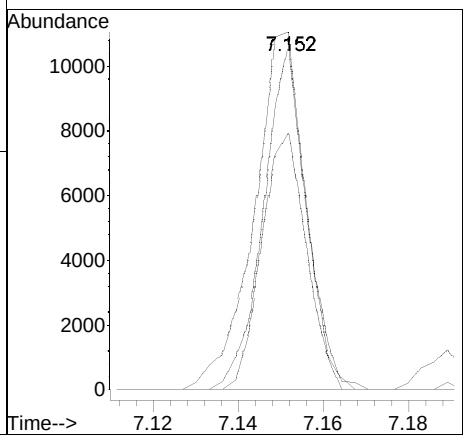


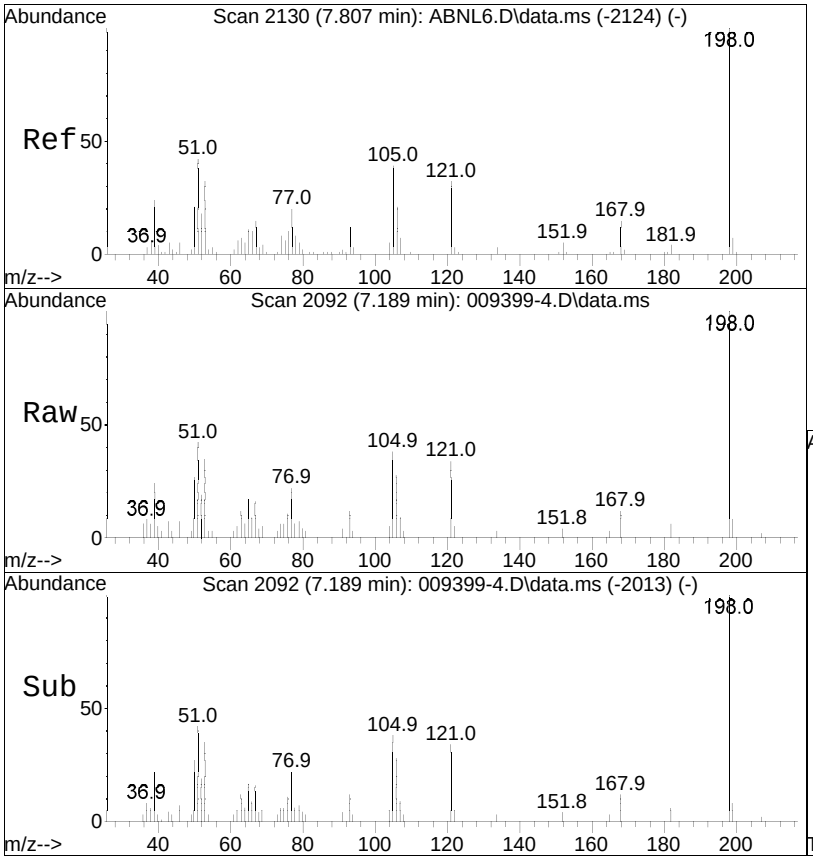


#77
4-Nitroaniline
Concen: 1.31 ug/ml
RT: 7.152 min Scan# 2080
Delta R.T. -0.003 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:138 Resp: 7328

Ion	Ratio	Lower	Upper
138	100		
108	78.6	52.1	78.1#
65	126.6	115.0	172.6

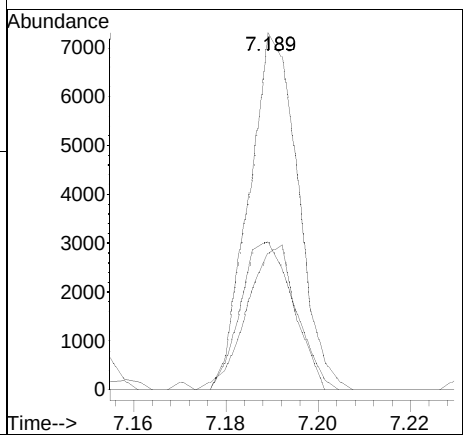


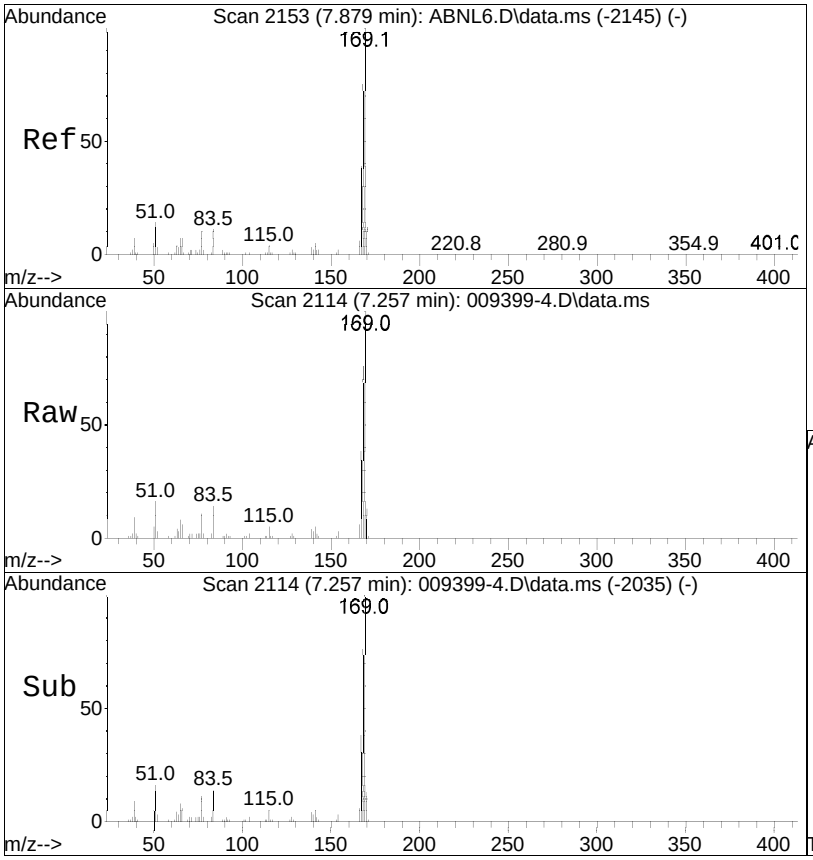


#78
4,6-Dinitro-o-cresol
Concen: 1.23 ug/ml
RT: 7.189 min Scan# 2092
Delta R.T. -0.003 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:198 Resp: 5375

Ion	Ratio	Lower	Upper
198	100		
51	46.0	76.0	114.0#
105	40.6	45.6	68.4#

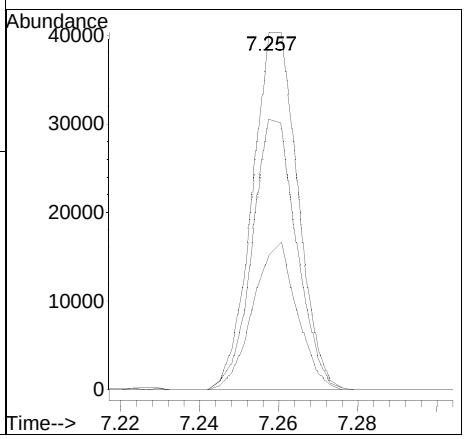


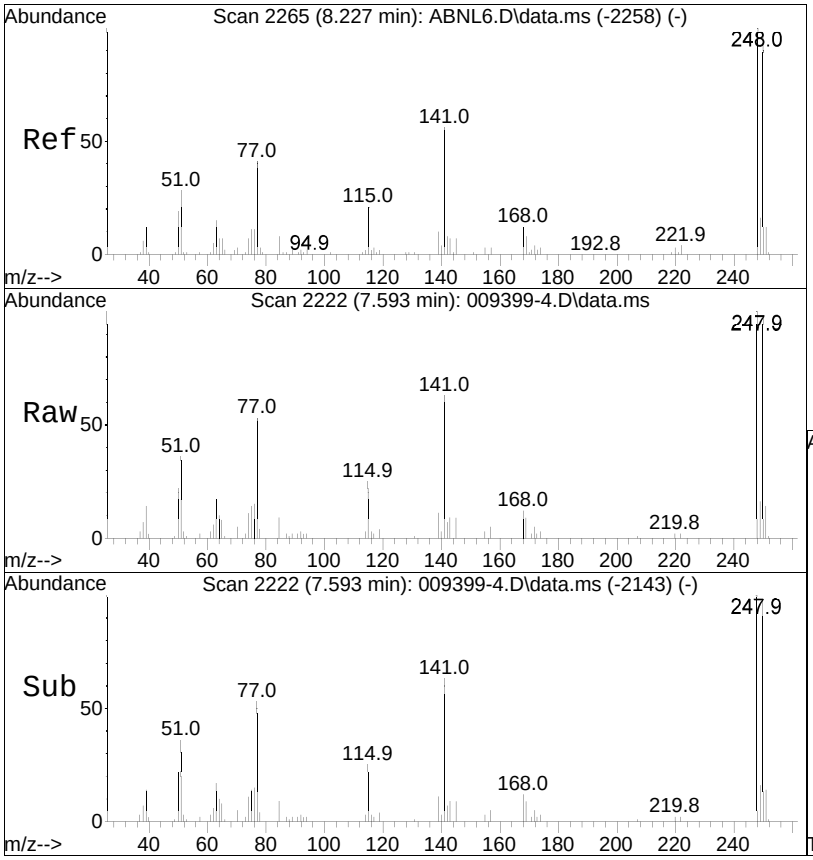


#79
NDPA/DPA
Concen: 1.29 ug/ml
RT: 7.257 min Scan# 2114
Delta R.T. -0.003 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:169 Resp: 32194

Ion	Ratio	Lower	Upper
169	100		
168	73.8	54.0	81.0
167	40.1	28.6	42.8

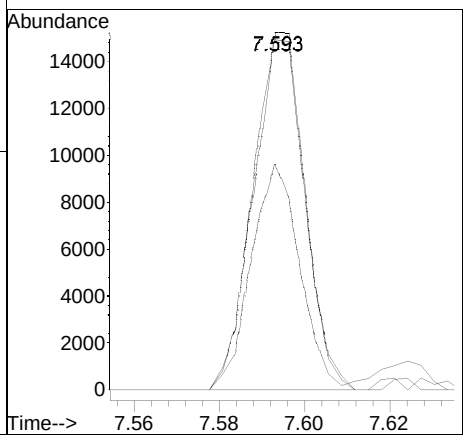


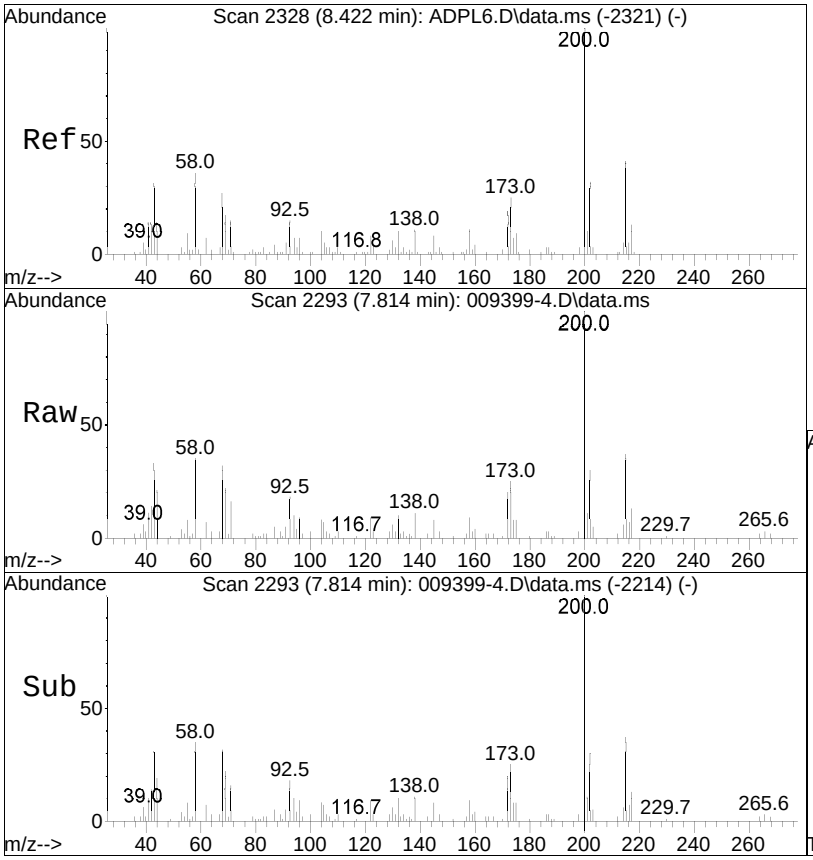


#82
4-Bromophenyl phenyl ether
Concen: 1.30 ug/ml
RT: 7.593 min Scan# 2222
Delta R.T. -0.003 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:248 Resp: 12704

Ion	Ratio	Lower	Upper
248	100		
141	59.8	76.6	114.8#
250	99.7	77.3	115.9

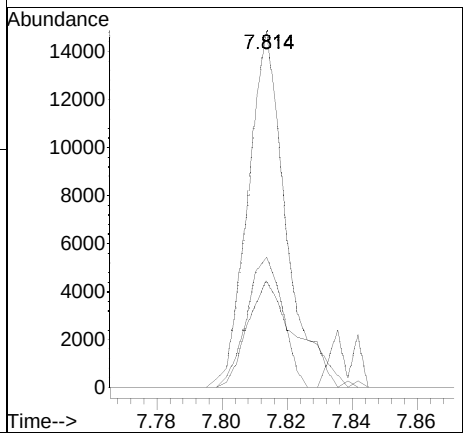


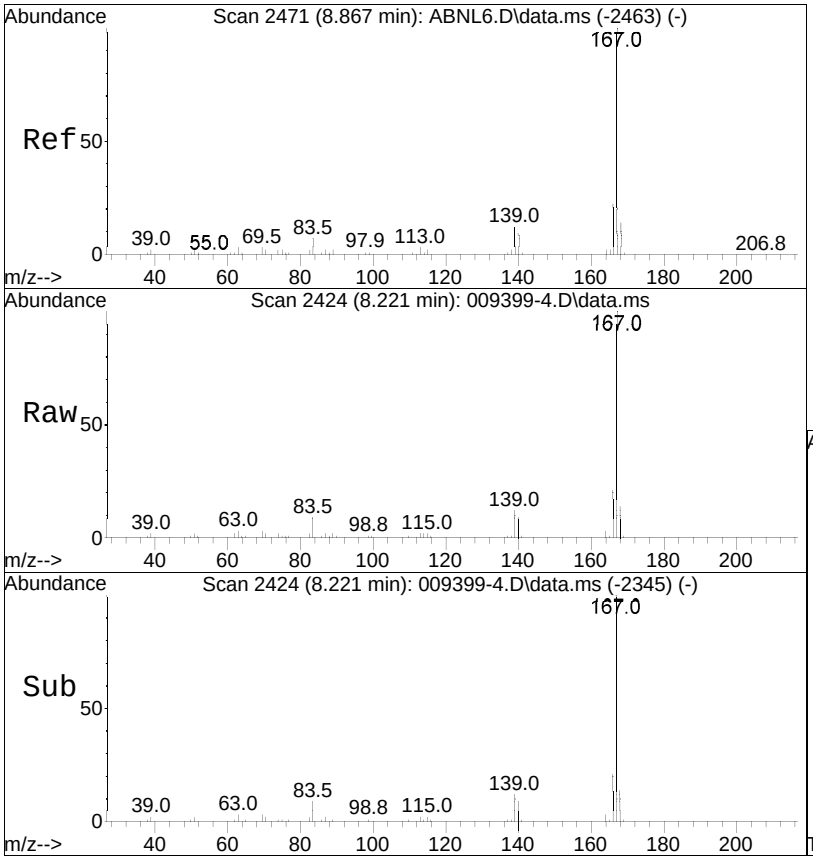


#89
Atrazine
Concen: 1.85 ug/ml
RT: 7.814 min Scan# 2293
Delta R.T. -0.003 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:200 Resp: 11896

Ion	Ratio	Lower	Upper
200	100		
202	40.2	25.8	38.6#
215	35.1	40.2	60.4#

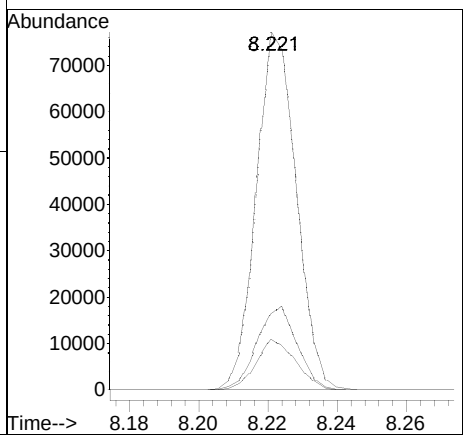


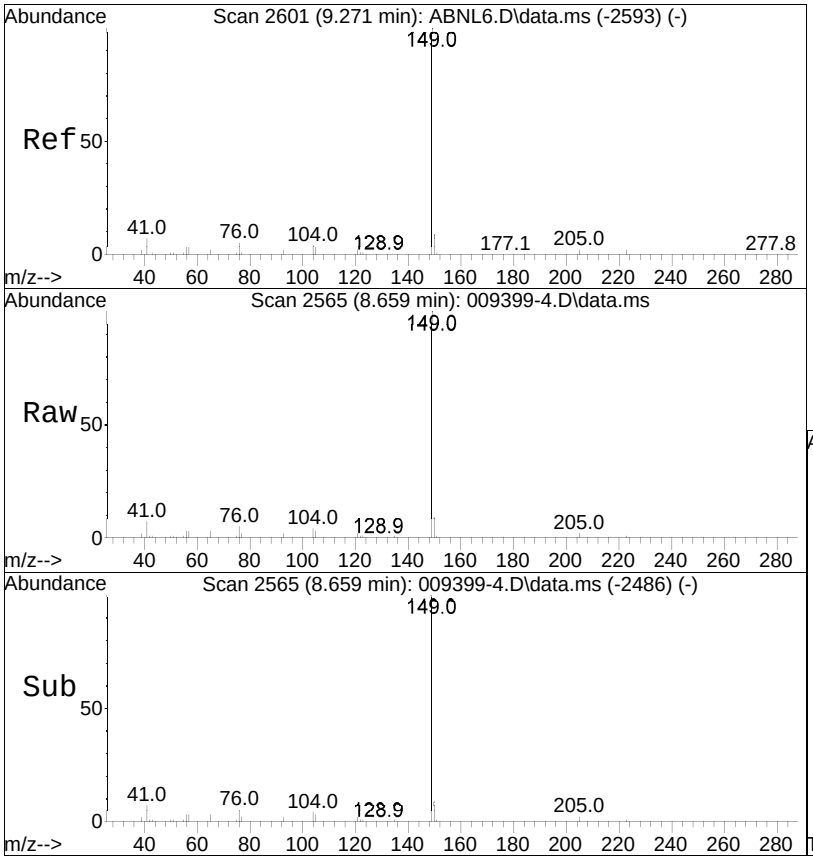


#93
Carbazole
Concen: 1.41 ug/ml
RT: 8.221 min Scan# 2424
Delta R.T. -0.003 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:167 Resp: 61595

Ion	Ratio	Lower	Upper
167	100		
168	14.1	10.6	15.8
166	23.4	17.4	26.0

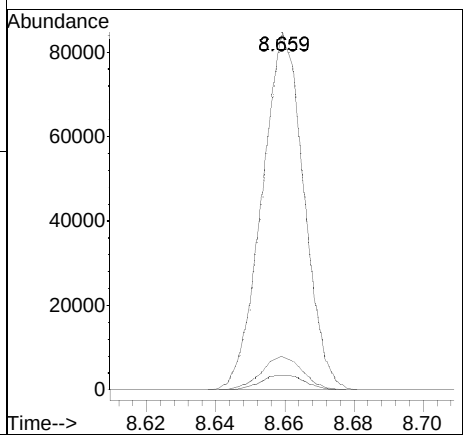


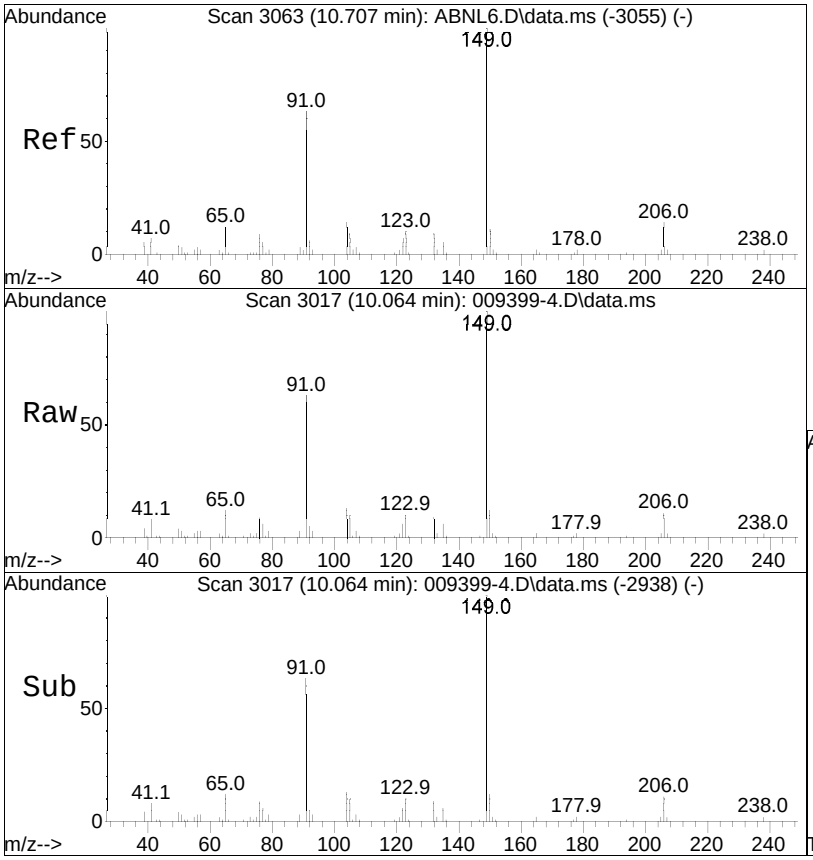


#94
Di-n-butylphthalate
Concen: 1.43 ug/ml
RT: 8.659 min Scan# 2565
Delta R.T. -0.003 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:149 Resp: 70494

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.0	10.6
104	4.4	4.5	6.7#

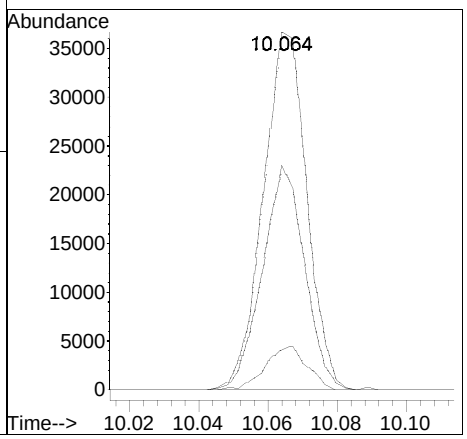


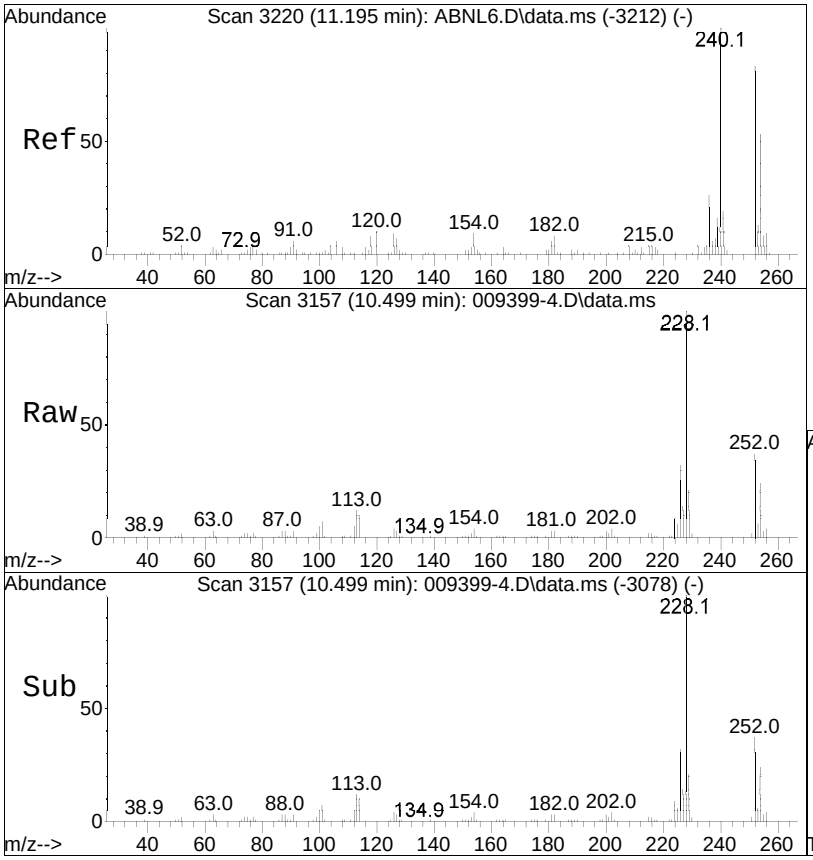


#99
Butyl benzyl phthalate
Concen: 1.50 ug/ml
RT: 10.064 min Scan# 3017
Delta R.T. -0.003 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:149 Resp: 31769

Ion	Ratio	Lower	Upper
149	100		
91	60.9	63.3	94.9#
206	11.7	13.9	20.9#

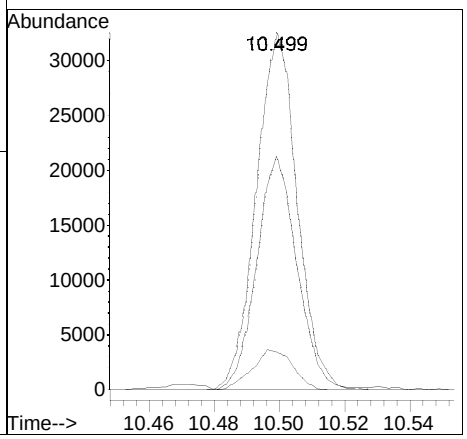


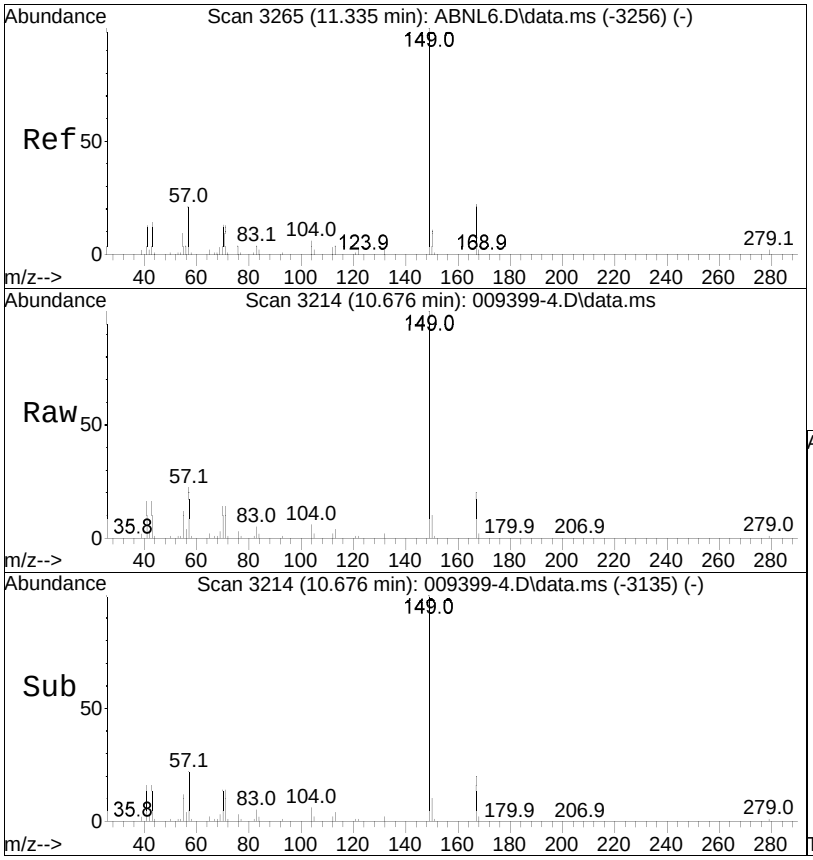


#108
3,3'-Dichlorobenzidine
Concen: 1.18 ug/ml
RT: 10.499 min Scan# 3157
Delta R.T. -0.003 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:252 Resp: 28191

Ion	Ratio	Lower	Upper
252	100		
126	11.3	14.5	21.7#
254	64.5	51.2	76.8

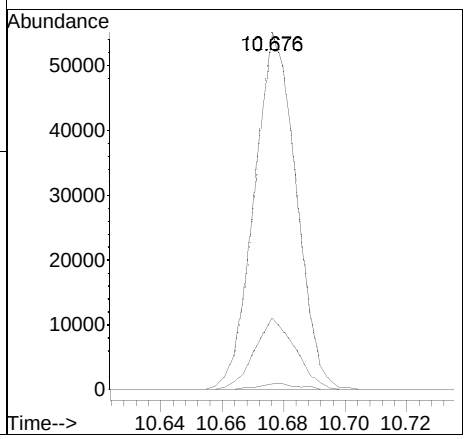


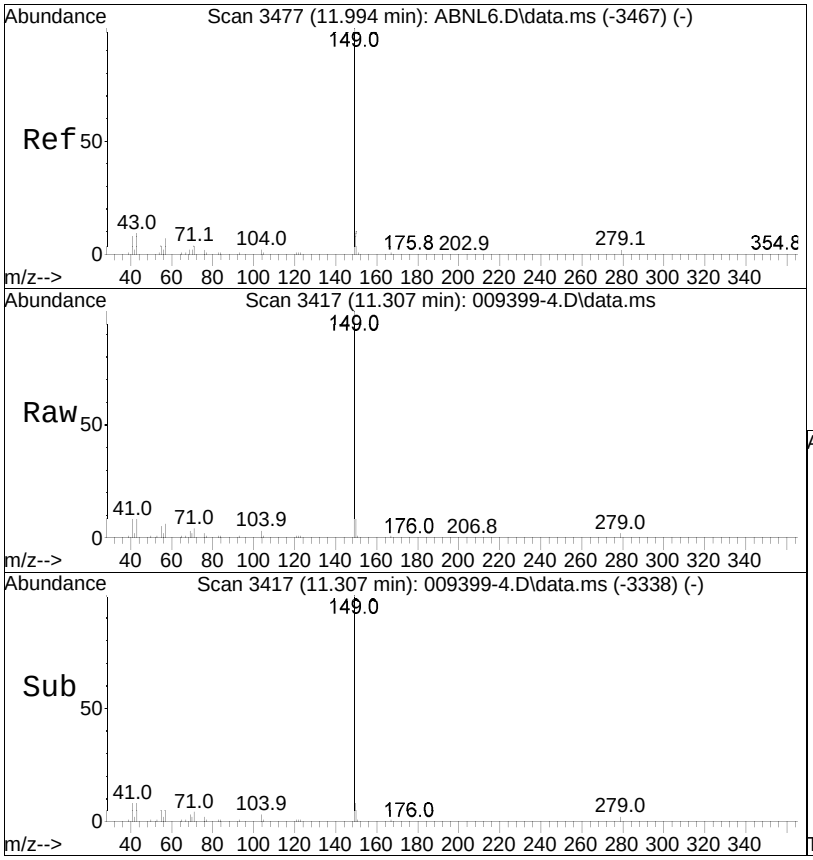


#110
Bis(2-ethylhexyl)phthalate
Concen: 1.51 ug/ml
RT: 10.676 min Scan# 3214
Delta R.T. -0.003 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:149 Resp: 51777

Ion	Ratio	Lower	Upper
149	100		
167	19.6	22.1	33.1#
279	1.4	3.0	4.4#

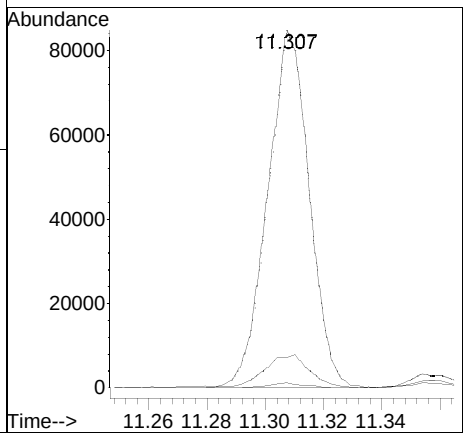




#111
Di-n-octylphthalate
Concen: 1.45 ug/ml
RT: 11.307 min Scan# 3417
Delta R.T. -0.003 min
Lab File: 009399-4.D
Acq: 17 Dec 2024 5:48 am

Tgt Ion:149 Resp: 83125

Ion	Ratio	Lower	Upper
149	100		
43	10.1	18.8	28.2#
167	1.2	1.3	1.9#



Manual Integration Report

Data Path	: I:\8270\Dakota\241216NARVTQ	Method	: FS241105RVT_Dakota.m
Data File	: 009399-4.D	Operator	: Dakota:smz
Date Inj'd	: 12/17/2024 5:48 am	Instrument	: Dakota
Sample	: WG2009399-4,32,,ASK	Quant Date	: 12/17/2024 6:06 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 009399-5.D
Acq On : 17 Dec 2024 6:10 am
Operator : Dakota:smz
Sample : WG2009399-5,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 17 06:27:34 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.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...	3.636	152	29901	4.000	ug/ml		0.00
Standard Area 1 = 26484			Recovery = 112.90%				
27) IS2_1,4-Dichlorobenzen...	3.636	152	29901	4.000	ug/ml		0.00
Standard Area 3 = 26042			Recovery = 114.82%				
37) IS1_Naphthalene-d8	4.898	136	111692	4.000	ug/ml	#	0.00
Standard Area 1 = 99668			Recovery = 112.06%				
57) IS2_Naphthalene-d8	4.898	136	111692	4.000	ug/ml	#	0.00
Standard Area 3 = 95704			Recovery = 116.71%				
65) IS1_Acenaphthene-d10	6.577	164	73770	4.000	ug/ml		0.00
Standard Area 1 = 68055			Recovery = 108.40%				
85) IS2_Acenaphthene-d10	6.577	164	73770	4.000	ug/ml		0.00
Standard Area 3 = 62423			Recovery = 118.18%				
88) IS3_Acenaphthene-d10	6.577	164	73770	4.000	ug/ml		0.00
Standard Area 2 = 60461			Recovery = 122.01%				
90) IS1_Phenanthrene-d10	7.969	188	166185	4.000	ug/ml		0.00
Standard Area 1 = 150638			Recovery = 110.32%				
102) IS3_Phenanthrene-d10	7.969	188	166185	4.000	ug/ml		0.00
Standard Area 2 = 137555			Recovery = 120.81%				
106) IS1_Chrysene-d12	10.474	240	185354	4.000	ug/ml		0.00
Standard Area 1 = 177601			Recovery = 104.37%				
115) IS1_Perylene-d12	11.823	264	222775	4.000	ug/ml		0.00
Standard Area 1 = 203764			Recovery = 109.33%				
System Monitoring Compounds							
4) 2-Fluorophenol	2.232	112	7719	1.004	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 50.20%				
7) Phenol-d6	3.369	99	6855	0.696	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 34.80%				
19) Nitrobenzene-d5	4.214	82	6080	0.681	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 68.10%				
48) 2-Fluorobiphenyl	5.983	172	17140	0.620	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 62.00%				
81) 2,4,6-Tribromophenol	7.329	330	8034	1.524	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 76.20%				
98) 4-Terphenyl-d14	9.539	244	30877	0.642	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 64.20%				

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 009399-5.D
Acq On : 17 Dec 2024 6:10 am
Operator : Dakota:smz
Sample : WG2009399-5,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 17 06:27:34 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	3.425	128	11277	1.231	ug/ml	91
8) Phenol	3.385	94	9669	0.910	ug/ml	95
14) Bis(2-chloroisopropyl)...	3.984	45	18049	1.346	ug/ml#	68
15) 2-Methylphenol	3.997	108	9017	1.118	ug/ml	97
17) n-Nitrosodi-n-propylamine	4.118	70	8520	1.321	ug/ml#	84
18) 3-Methylphenol/4-Methy...	4.165	108	9940	1.125	ug/ml	88
20) Nitrobenzene	4.230	77	12126	1.327	ug/ml	94
21) Isophorone	4.485	82	22048	1.313	ug/ml#	93
22) 2-Nitrophenol	4.550	139	5697	1.232	ug/ml#	87
23) 2,4-Dimethylphenol	4.674	107	4817	0.585	ug/ml	97
24) Bis(2-chloroethoxy)met...	4.752	93	14272	1.364	ug/ml#	94
25) 2,4-Dichlorophenol	4.802	162	12472	1.298	ug/ml#	92
28) Benzaldehyde	3.176	105	8926	1.697	ug/ml	99
29) Acetophenone	4.078	105	18109	1.726	ug/ml#	78
40) 4-Chloroaniline	5.019	65	2650	0.785	ug/ml	80
42) p-Chloro-m-cresol	5.545	107	11049	1.365	ug/ml	89
45) Hexachlorocyclopentadiene	5.775	237	5643	0.742	ug/ml	94
46) 2,4,6-Trichlorophenol	5.902	196	10573	1.321	ug/ml	95
47) 2,4,5-Trichlorophenol	5.930	196	11990	1.340	ug/ml	98
50) 2-Nitroaniline	6.182	138	8662	1.422	ug/ml#	78
53) Dimethyl phthalate	6.406	163	39256	1.419	ug/ml#	98
55) 2,6-Dinitrotoluene	6.437	165	7096	1.374	ug/ml	91
62) Caprolactam	5.312	55	2515	0.733	ug/ml#	86
63) 1,2,4,5-Tetrachloroben...	5.769	216	16582	1.438	ug/ml#	94
64) Biphenyl	6.064	154	36270	1.543	ug/ml	95
66) 3-Nitroaniline	6.580	138	7089	1.244	ug/ml#	86
68) 2,4-Dinitrophenol	6.679	184	2990	0.862	ug/ml#	86
69) Dibenzofuran	6.776	168	47643	1.288	ug/ml	90
70) 2,4-Dinitrotoluene	6.810	165	9907	1.387	ug/ml	87
71) 4-Nitrophenol	6.810	65	4681	1.102	ug/ml	93
74) Diethyl phthalate	7.086	149	40257	1.386	ug/ml	97
76) 4-Chlorophenyl phenyl ...	7.139	204	18661	1.278	ug/ml#	85
77) 4-Nitroaniline	7.152	138	8066	1.465	ug/ml	82
78) 4,6-Dinitro-o-cresol	7.189	198	5093	1.180	ug/ml#	64
79) NDPA/DPA	7.257	169	31791	1.290	ug/ml	93
82) 4-Bromophenyl phenyl e...	7.593	248	12437	1.293	ug/ml#	82

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 009399-5.D
Acq On : 17 Dec 2024 6:10 am
Operator : Dakota:smz
Sample : WG2009399-5,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 17 06:27:34 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241216NARVT\ABN1216na.D
: 2 - I:\8270\Dakota\241216NARVT\ADP1216na.D
: 3 - I:\8270\Dakota\241216NARVT\AP91216na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	Atrazine	7.814	200	12452	1.968	ug/ml#	81
93)	Carbazole	8.224	167	60668	1.372	ug/ml	99
94)	Di-n-butylphthalate	8.659	149	70008	1.396	ug/ml#	98
99)	Butyl benzyl phthalate	10.064	149	31553	1.469	ug/ml#	83
108)	3,3'-Dichlorobenzidine	10.499	252	25692	1.098	ug/ml#	94
110)	Bis(2-ethylhexyl)phtha...	10.676	149	49692	1.476	ug/ml#	87
111)	Di-n-octylphthalate	11.307	149	82511	1.470	ug/ml#	72

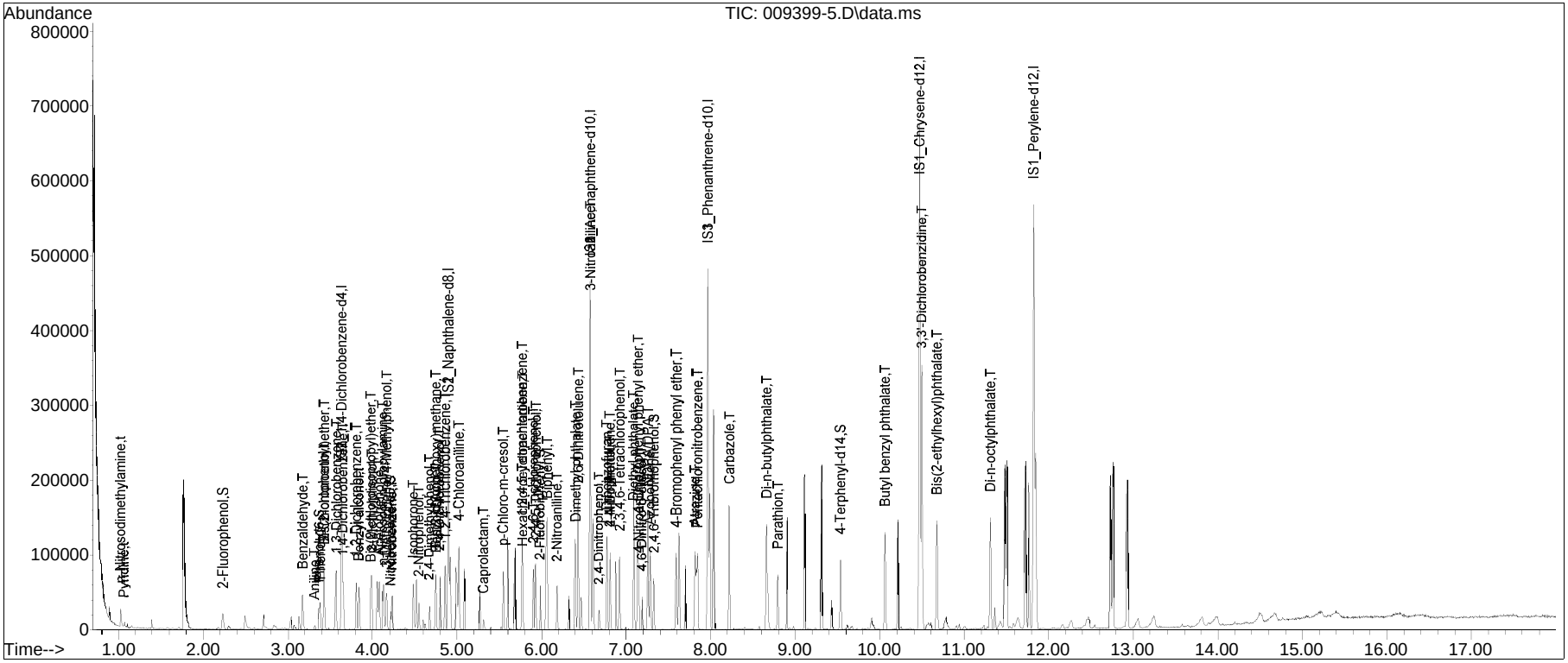
(#) = qualifier out of range (m) = manual integration (+) = signals summed

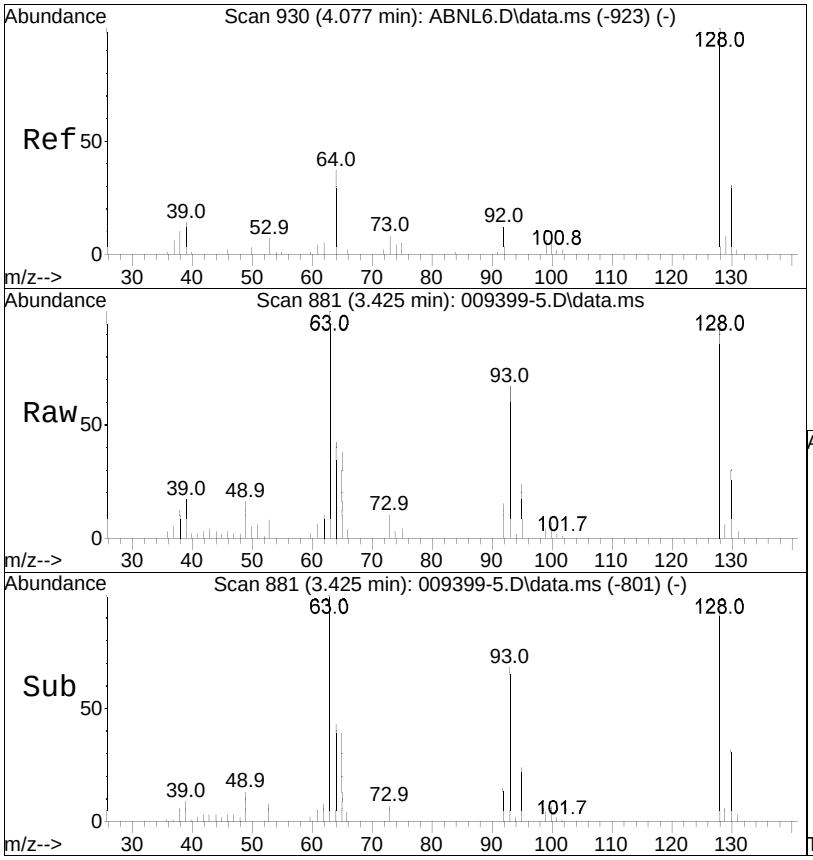
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241216NARVT\
Data File : 009399-5.D
Acq On : 17 Dec 2024 6:10 am
Operator : Dakota:smz
Sample : WG2009399-5,32,,ASK
Misc : WG2009953,WG2009399,ical21680
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 17 06:27:34 2024
Quant Method : I:\8270\Dakota\241216NARVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 17 00:32:55 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA\AP91216na.D•

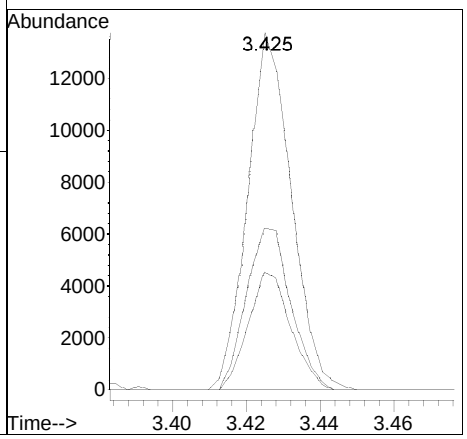


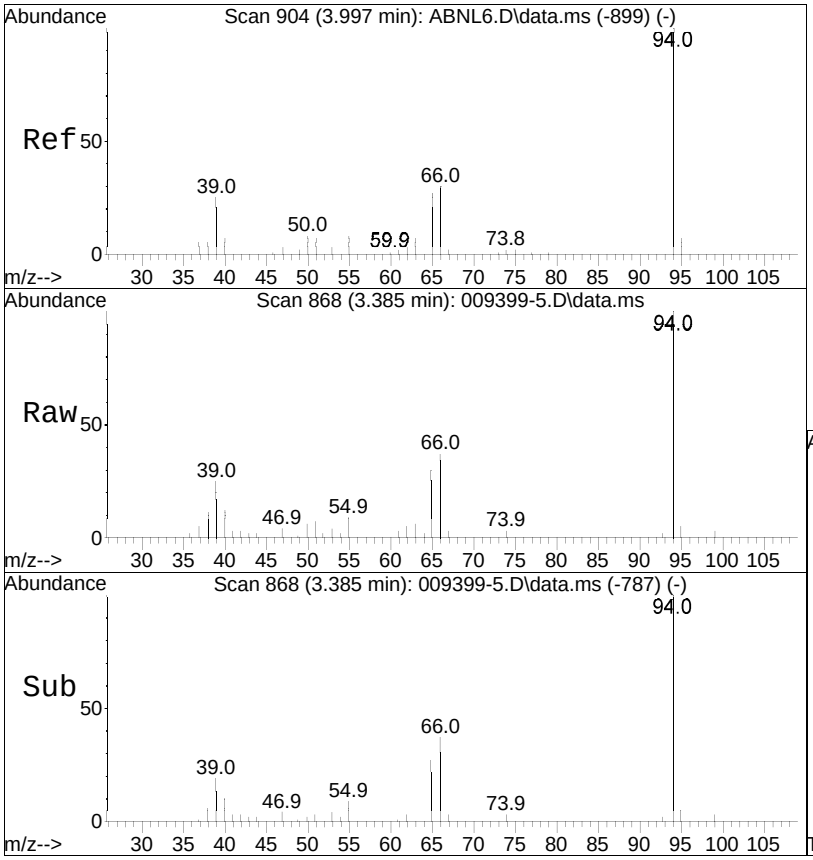


#6
2-Chlorophenol
Concen: 1.23 ug/ml
RT: 3.425 min Scan# 881
Delta R.T. -0.000 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:128 Resp: 11277

Ion	Ratio	Lower	Upper
128	100		
64	46.3	45.1	67.7
130	32.3	26.2	39.4

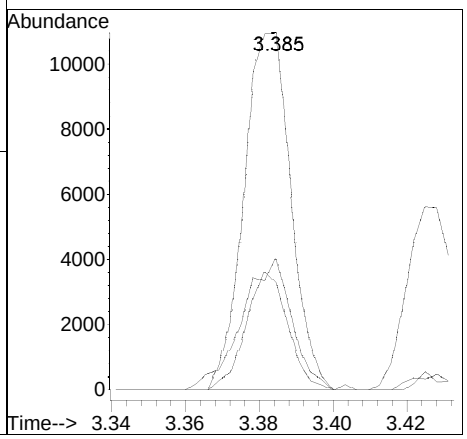


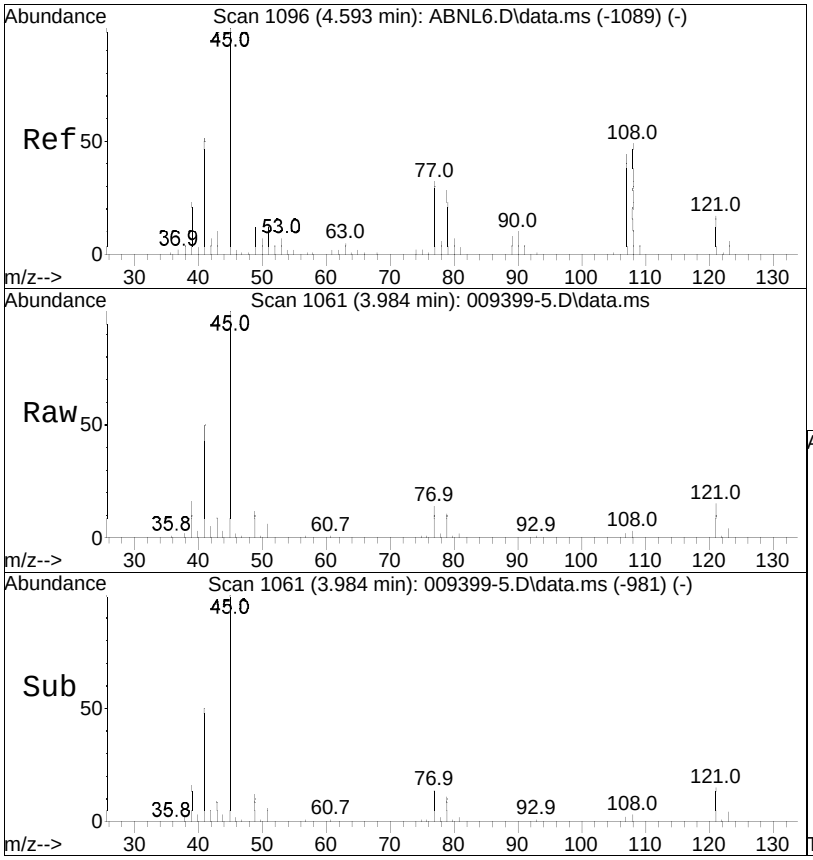


#8
Phenol
Concen: 0.91 ug/ml
RT: 3.385 min Scan# 868
Delta R.T. 0.003 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion: 94 Resp: 9669

Ion	Ratio	Lower	Upper
94	100		
65	29.6	26.0	39.0
66	39.2	33.8	50.8

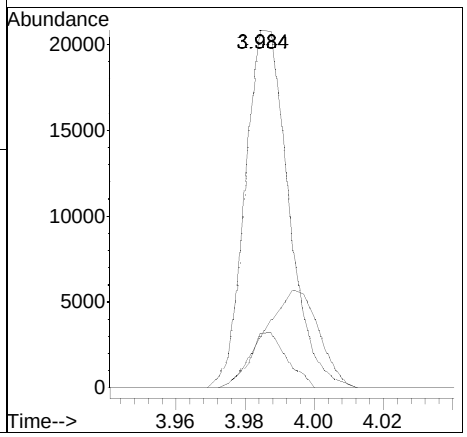


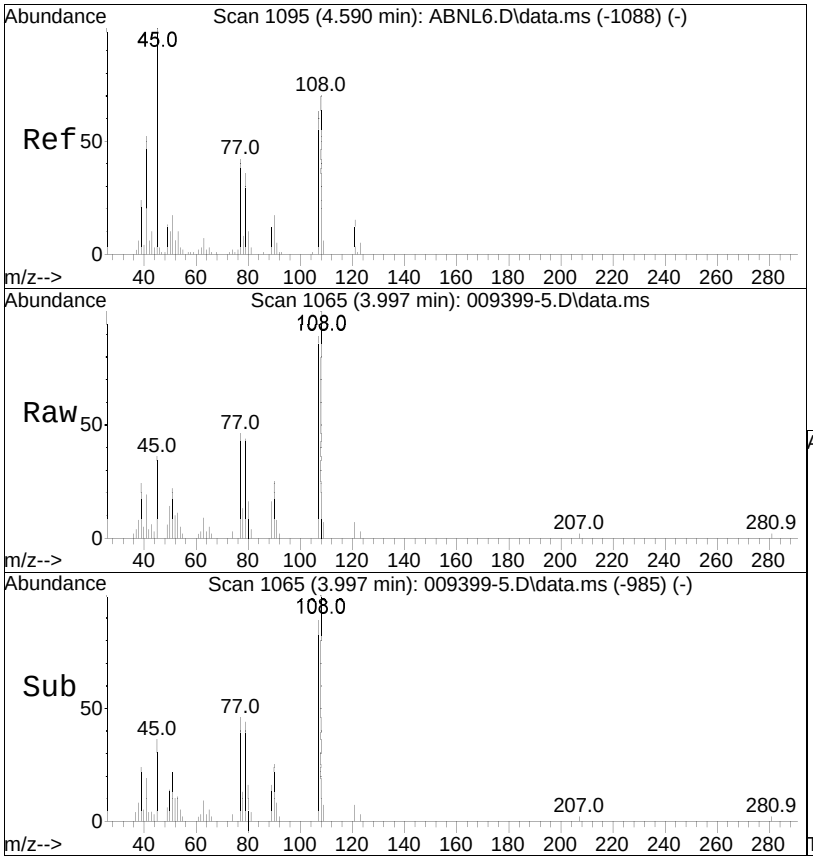


#14
Bis(2-chloroisopropyl)ether
Concen: 1.35 ug/ml
RT: 3.984 min Scan# 1061
Delta R.T. -0.000 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion: 45 Resp: 18049

Ion	Ratio	Lower	Upper
45	100		
121	13.5	9.8	14.6
77	34.4	6.1	9.1#

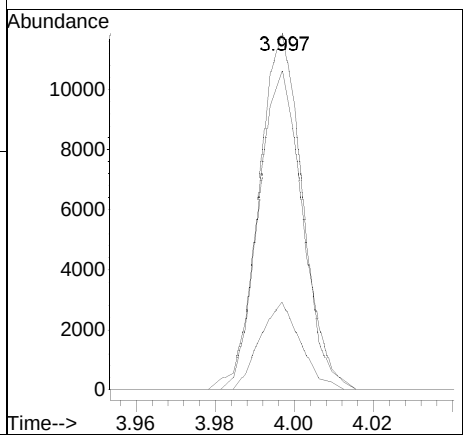


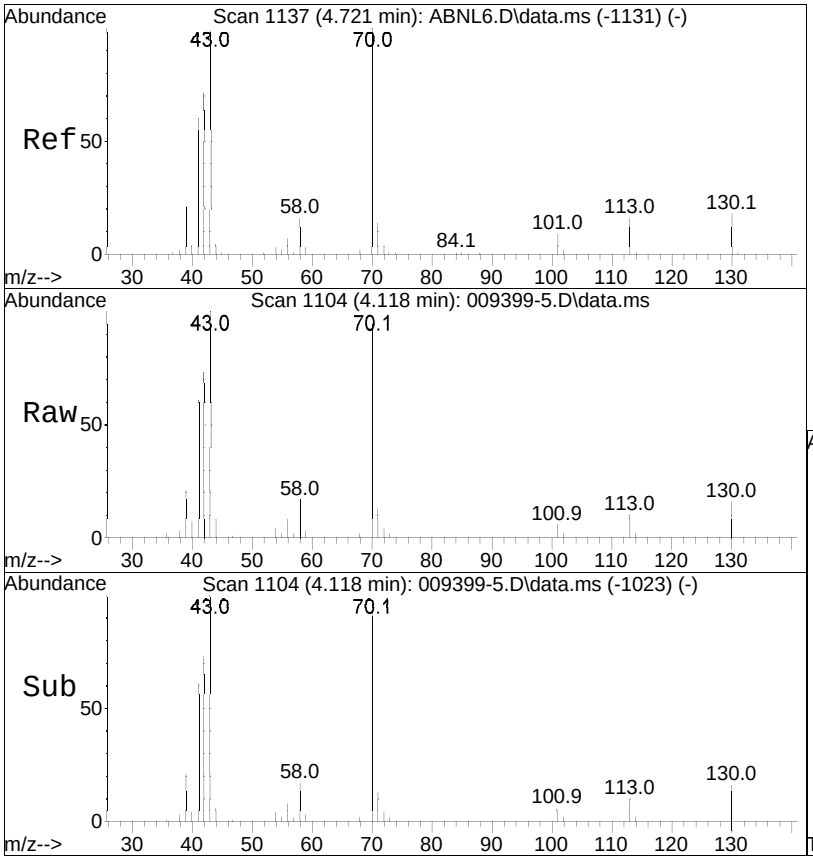


#15
2-Methylphenol
Concen: 1.12 ug/ml
RT: 3.997 min Scan# 1065
Delta R.T. -0.000 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:108 Resp: 9017

Ion	Ratio	Lower	Upper
108	100		
107	91.3	70.7	106.1
90	23.0	18.7	28.1

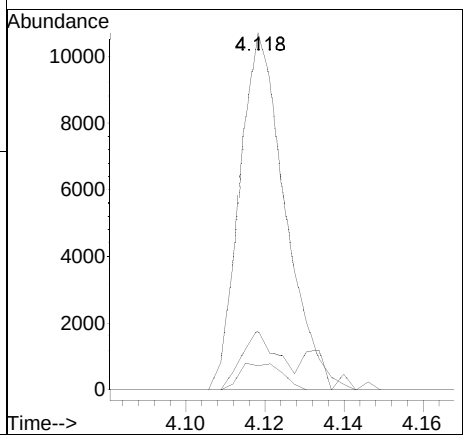


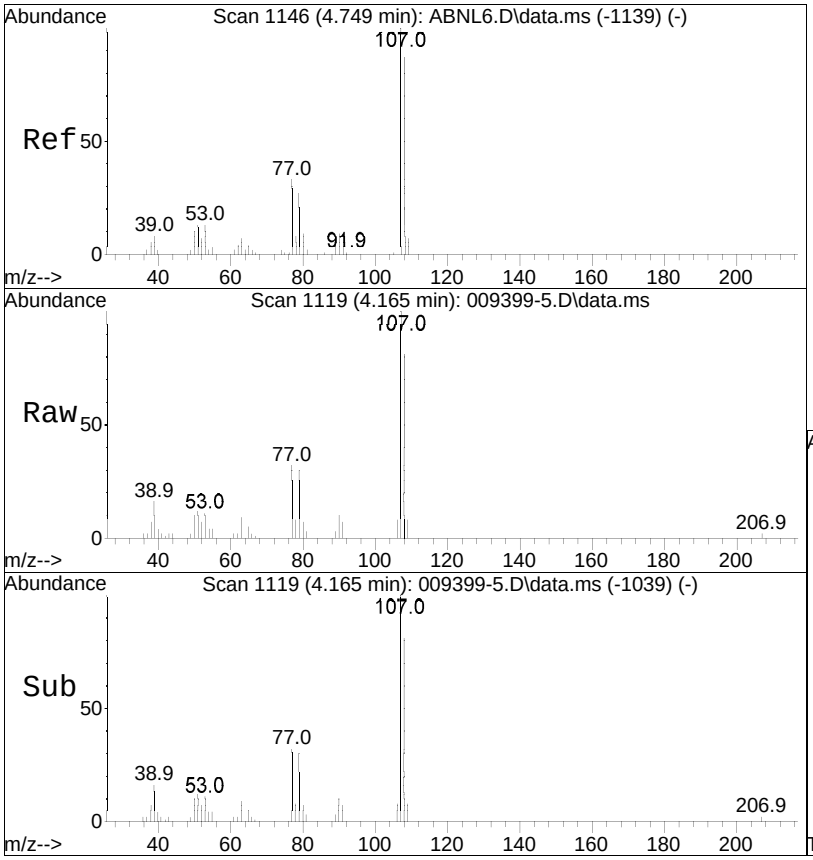


#17
n-Nitrosodi-n-propylamine
Concen: 1.32 ug/ml
RT: 4.118 min Scan# 1104
Delta R.T. 0.003 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion: 70 Resp: 8520

Ion	Ratio	Lower	Upper
70	100		
130	13.5	18.2	27.4#
101	6.9	7.8	11.8#

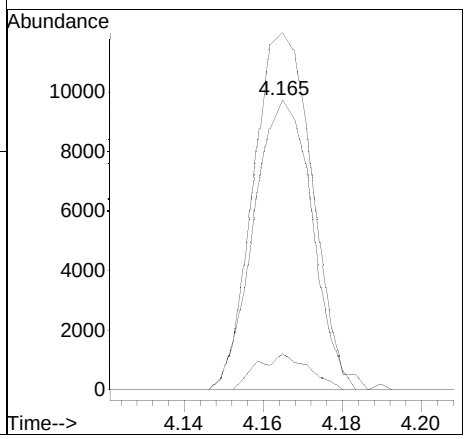


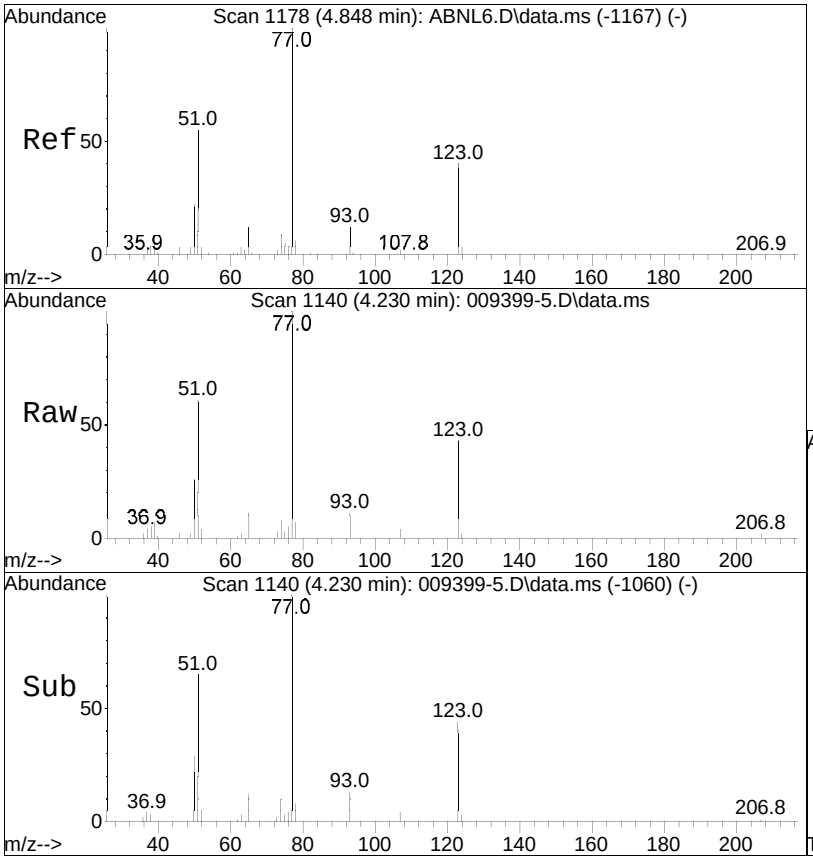


#18
3-Methylphenol/4-Methylphenol
Concen: 1.12 ug/ml
RT: 4.165 min Scan# 1119
Delta R.T. -0.000 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:108 Resp: 9940

Ion	Ratio	Lower	Upper
108	100		
107	124.7	88.6	132.8
90	11.2	8.8	13.2

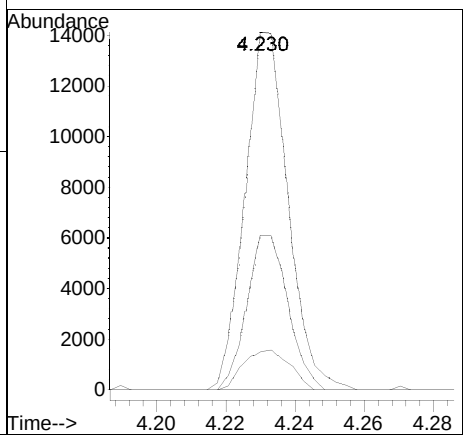


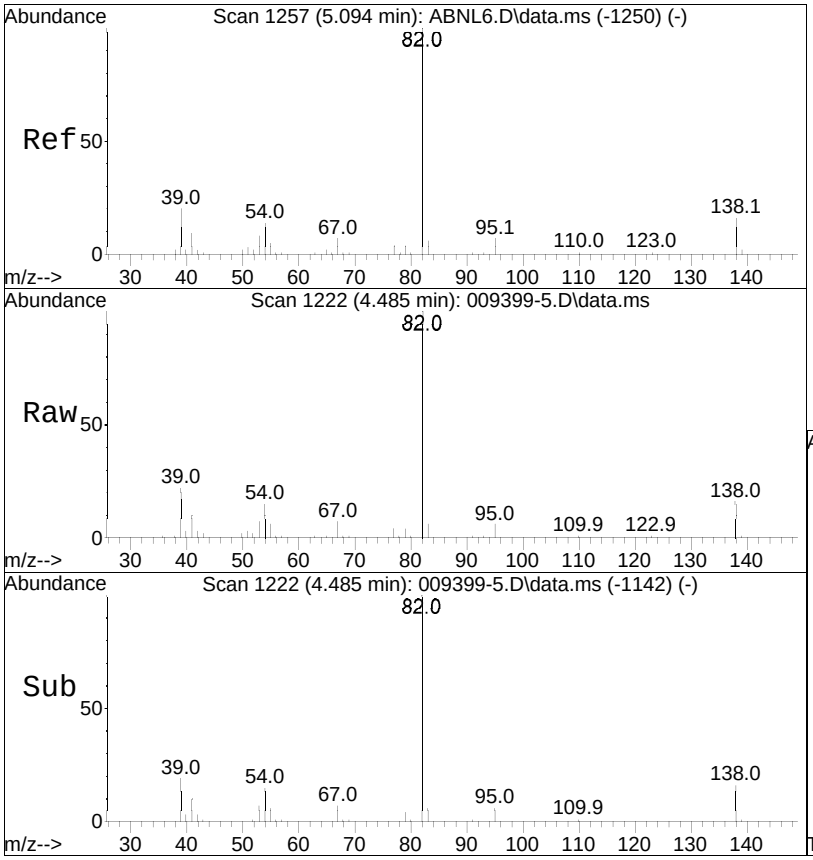


#20
Nitrobenzene
Concen: 1.33 ug/ml
RT: 4.230 min Scan# 1140
Delta R.T. -0.000 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion: 77 Resp: 12126

Ion	Ratio	Lower	Upper
77	100		
123	41.5	36.3	54.5
65	12.2	11.6	17.4

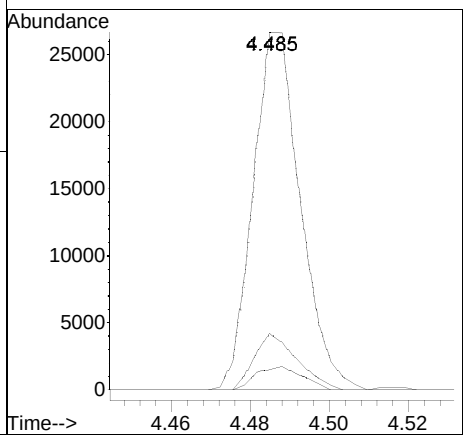


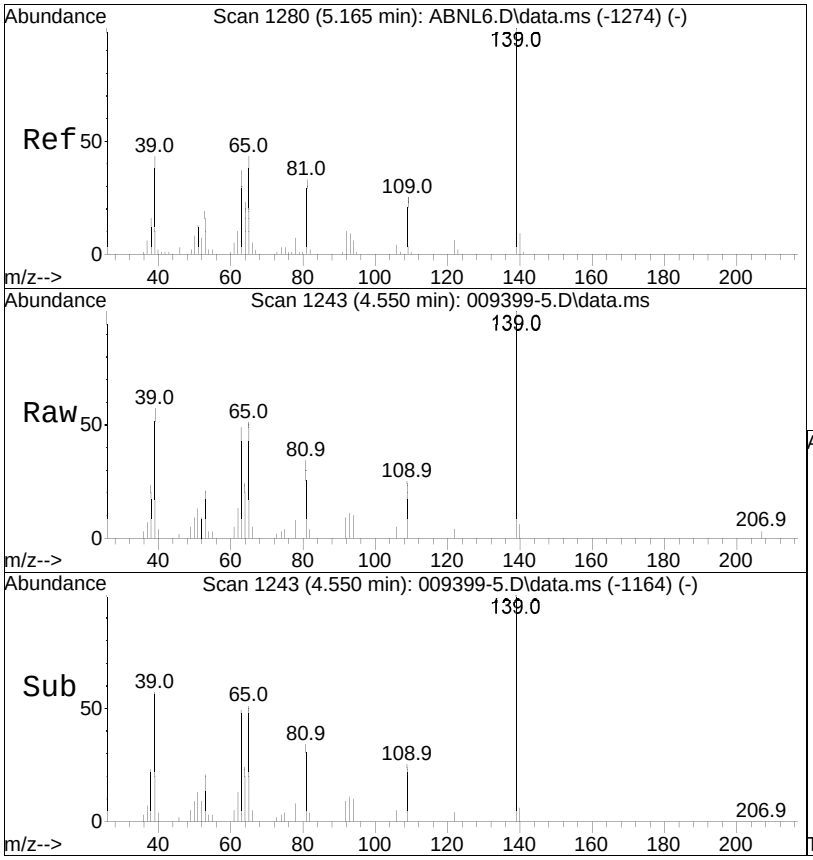


#21
Isophorone
Concen: 1.31 ug/ml
RT: 4.485 min Scan# 1222
Delta R.T. -0.000 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion: 82 Resp: 22048

Ion	Ratio	Lower	Upper
82	100		
138	14.3	14.7	22.1#
95	6.5	5.2	7.8

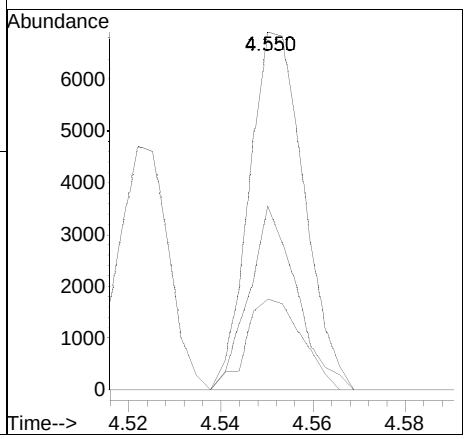


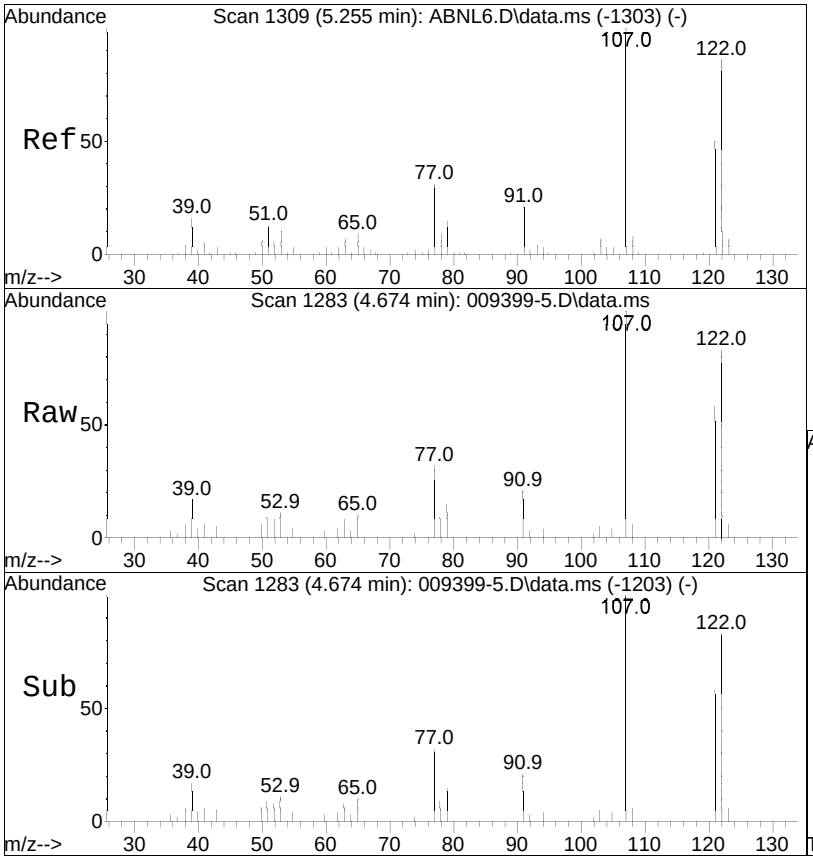


#22
2-Nitrophenol
Concen: 1.23 ug/ml
RT: 4.550 min Scan# 1243
Delta R.T. -0.003 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:139 Resp: 5697

Ion	Ratio	Lower	Upper
139	100		
109	25.8	19.4	29.0
65	44.8	46.1	69.1#

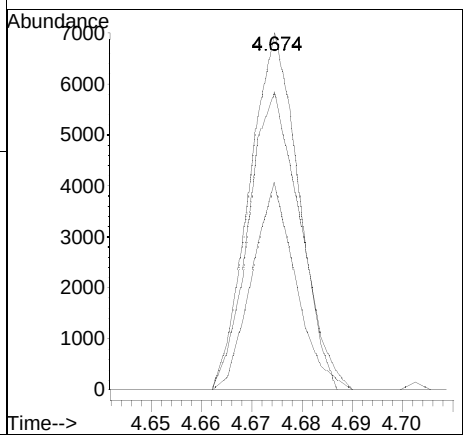


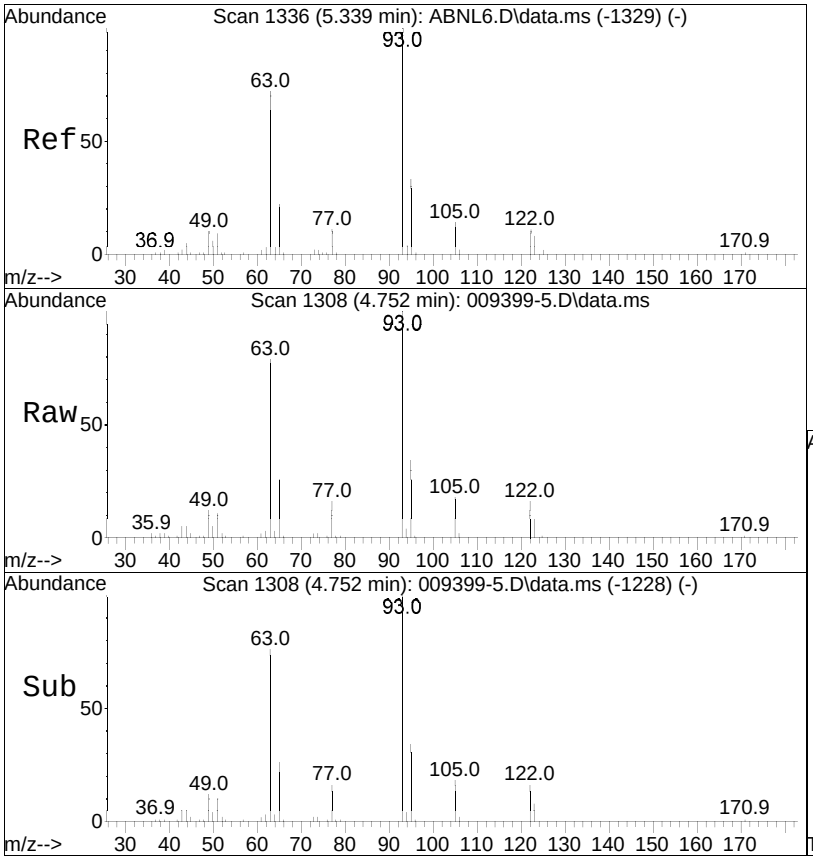


#23
2,4-Dimethylphenol
Concen: 0.59 ug/ml
RT: 4.674 min Scan# 1283
Delta R.T. -0.000 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:107 Resp: 4817

Ion	Ratio	Lower	Upper
107	100		
121	51.0	40.0	60.0
122	84.4	70.2	105.4

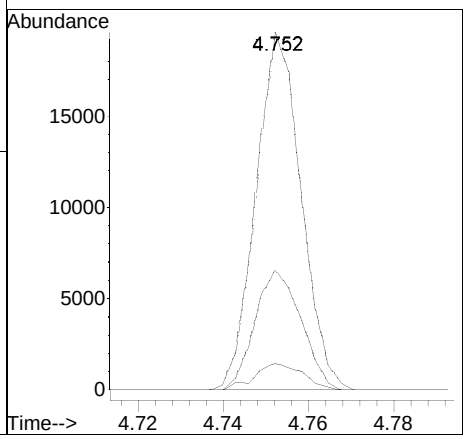


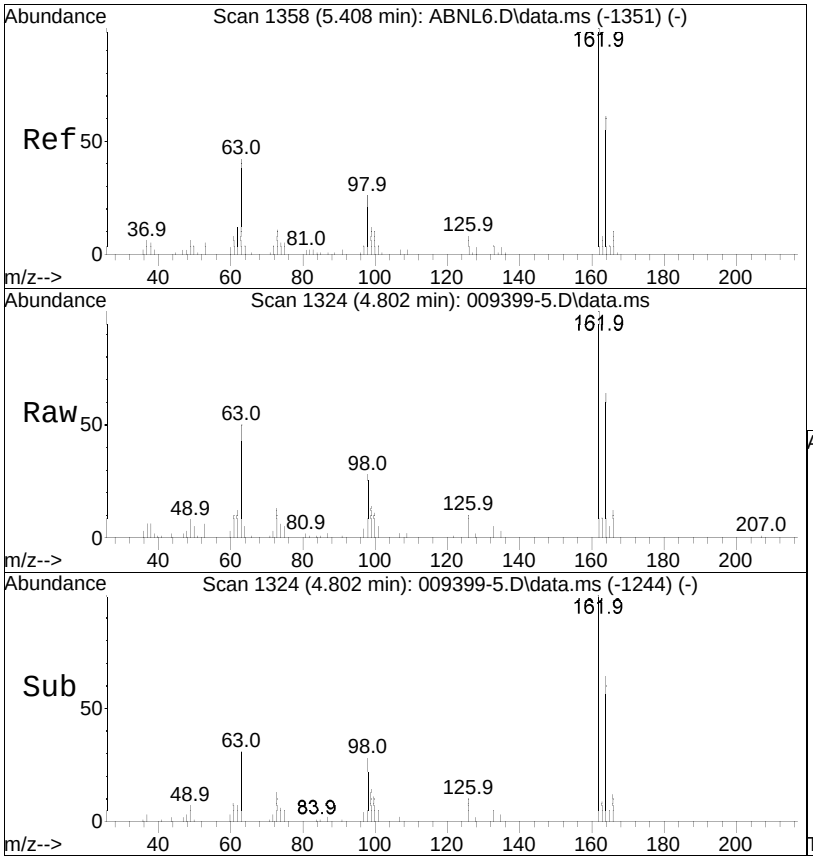


#24
Bis(2-chloroethoxy)methane
Concen: 1.36 ug/ml
RT: 4.752 min Scan# 1308
Delta R.T. -0.000 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion: 93 Resp: 14272

Ion	Ratio	Lower	Upper
93	100		
95	34.3	25.8	38.8
123	8.1	10.1	15.1#

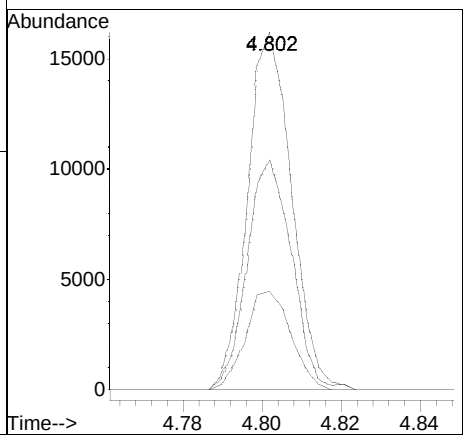


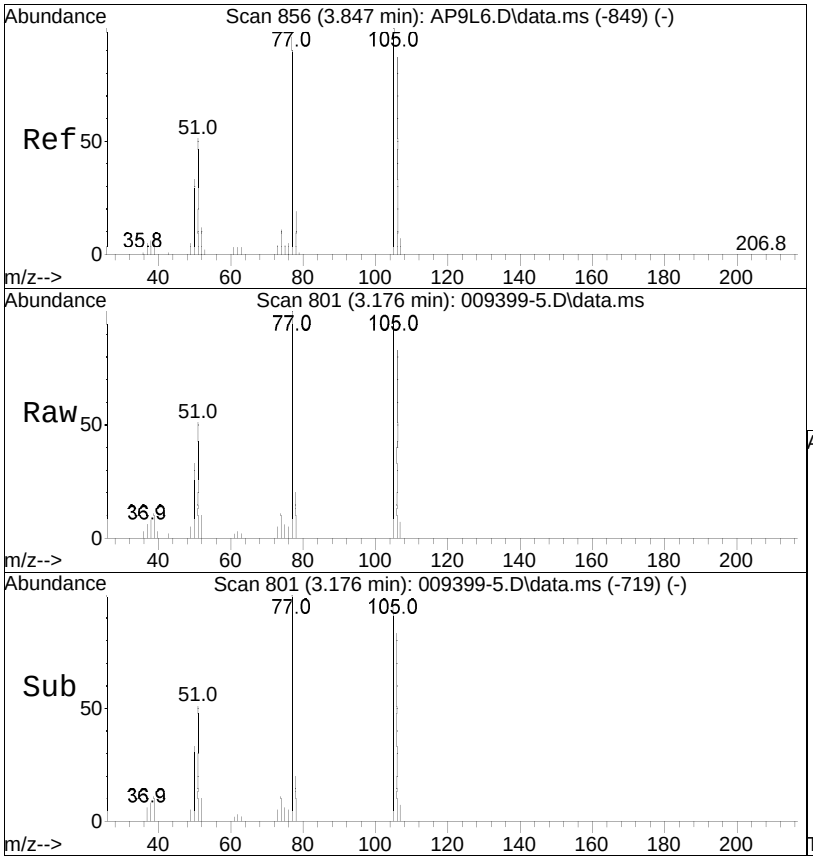


#25
2,4-Dichlorophenol
Concen: 1.30 ug/ml
RT: 4.802 min Scan# 1324
Delta R.T. -0.000 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:162 Resp: 12472

Ion	Ratio	Lower	Upper
162	100		
164	65.1	51.0	76.4
98	28.5	32.2	48.2#

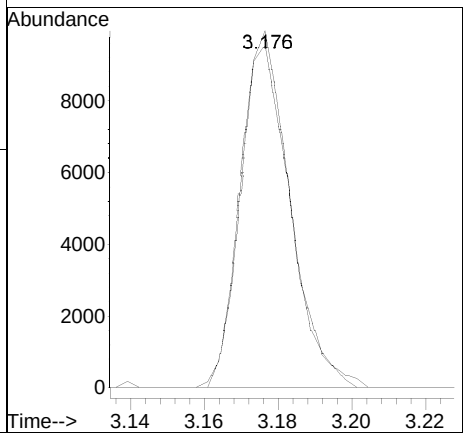


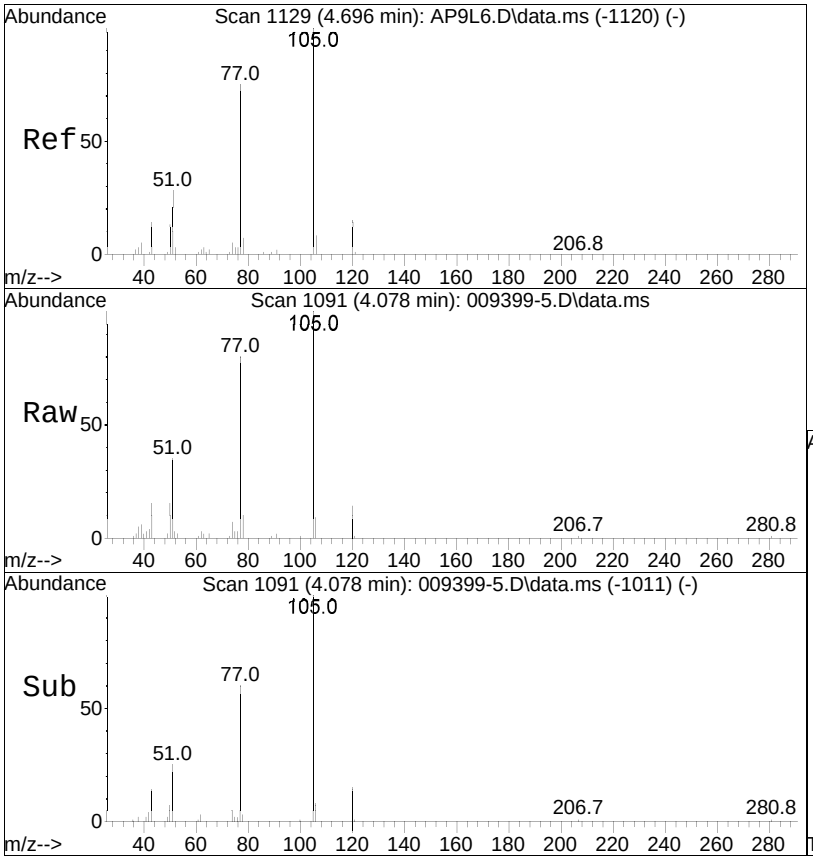


#28
Benzaldehyde
Concen: 1.70 ug/ml
RT: 3.176 min Scan# 801
Delta R.T. 0.006 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:105 Resp: 8926

Ion	Ratio	Lower	Upper
105	100		
77	104.1	82.2	123.4

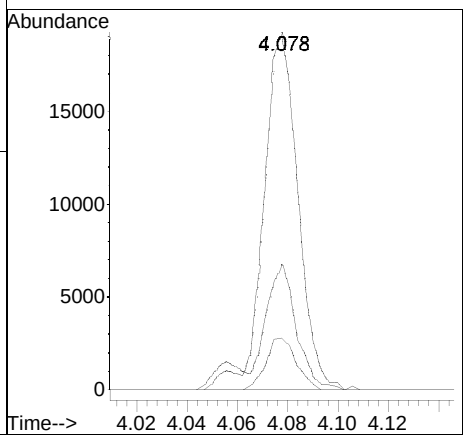


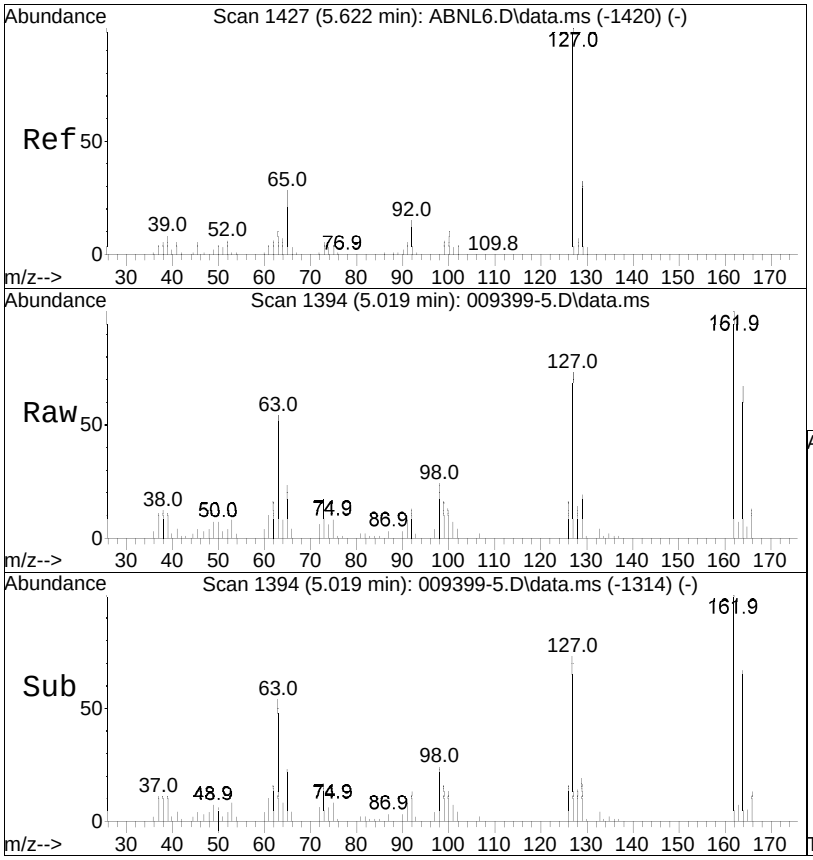


#29
Acetophenone
Concen: 1.73 ug/ml
RT: 4.078 min Scan# 1091
Delta R.T. -0.000 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:105 Resp: 18109

Ion	Ratio	Lower	Upper
105	100		
120	12.8	20.5	30.7#
51	30.8	34.9	52.3#

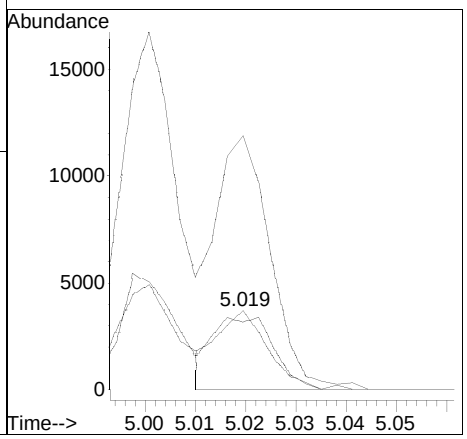


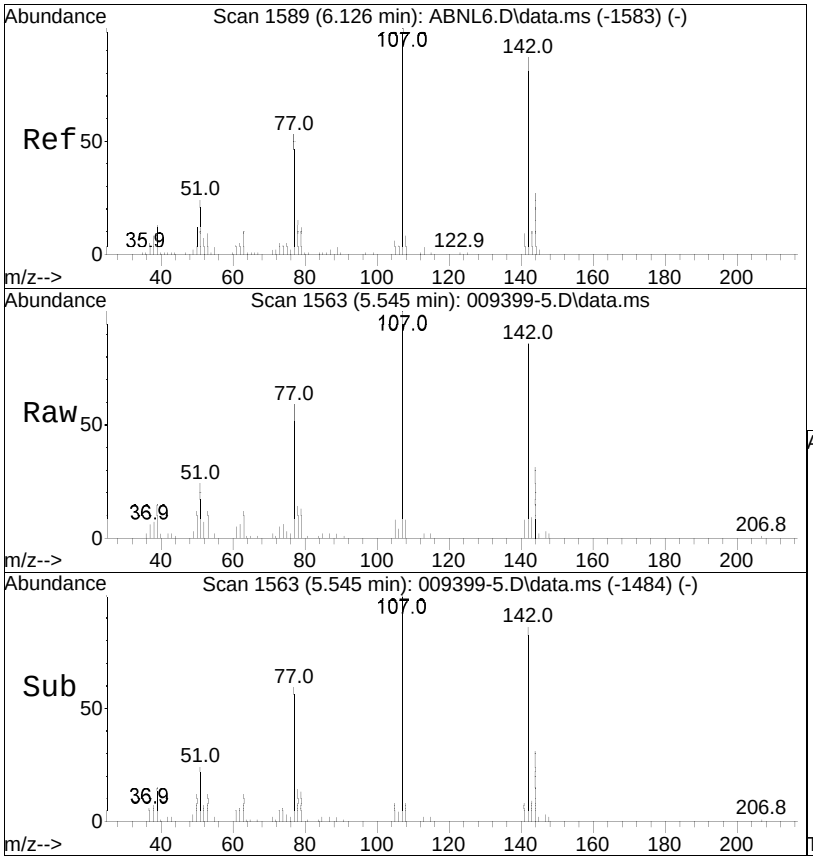


#40
4-Chloroaniline
Concen: 0.78 ug/ml
RT: 5.019 min Scan# 1394
Delta R.T. -0.000 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion: 65 Resp: 2650

Ion	Ratio	Lower	Upper
65	100		
127	341.7	237.6	356.4
129	107.6	76.3	114.5

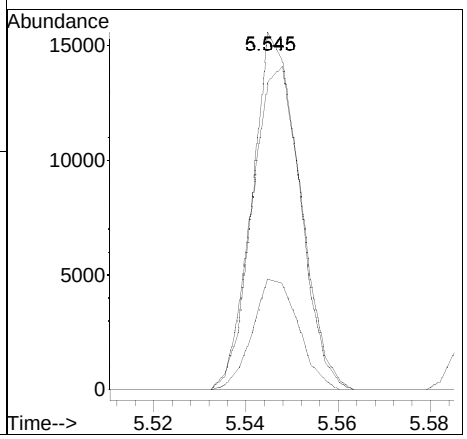


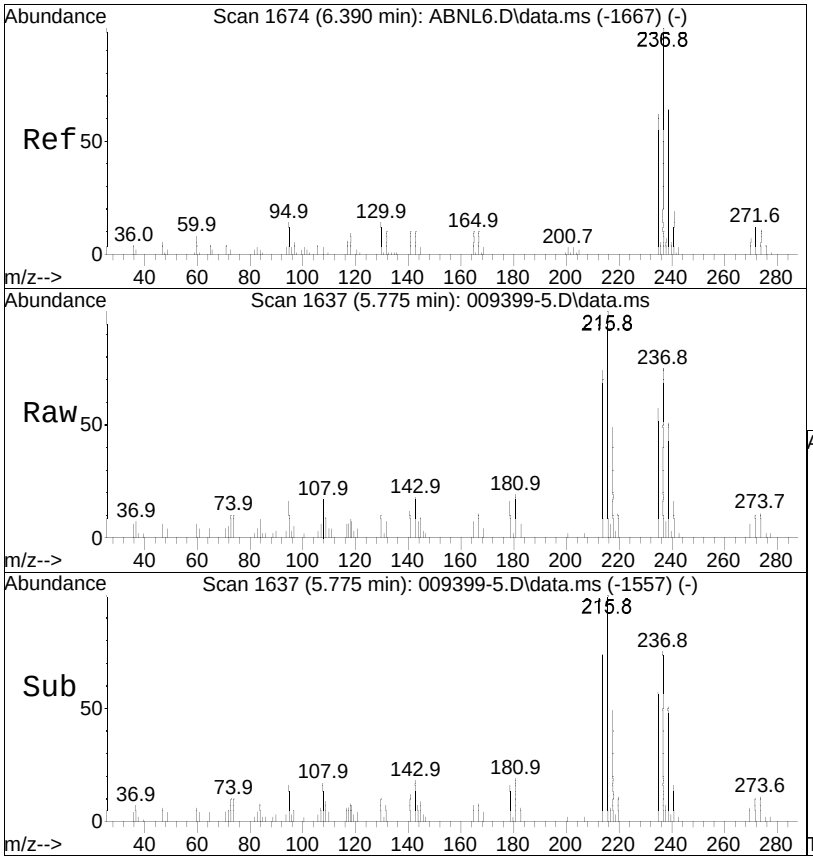


#42
p-Chloro-m-cresol
Concen: 1.37 ug/ml
RT: 5.545 min Scan# 1563
Delta R.T. -0.003 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:107 Resp: 11049

Ion	Ratio	Lower	Upper
107	100		
144	30.2	20.9	31.3
142	92.9	66.1	99.1

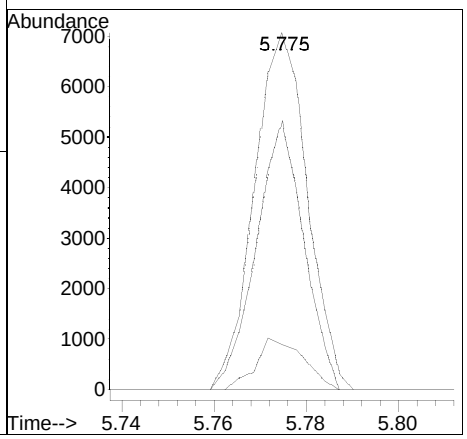


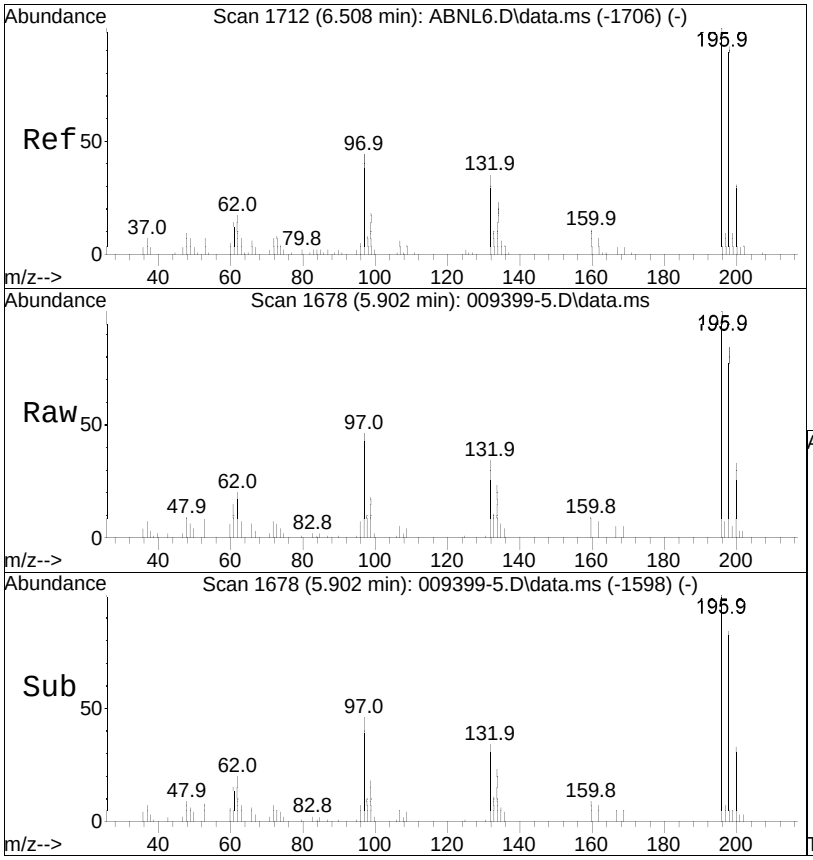


#45
Hexachlorocyclopentadiene
Concen: 0.74 ug/ml
RT: 5.775 min Scan# 1637
Delta R.T. -0.000 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:237 Resp: 5643

Ion	Ratio	Lower	Upper
237	100		
235	67.4	49.7	74.5
272	13.0	9.8	14.6

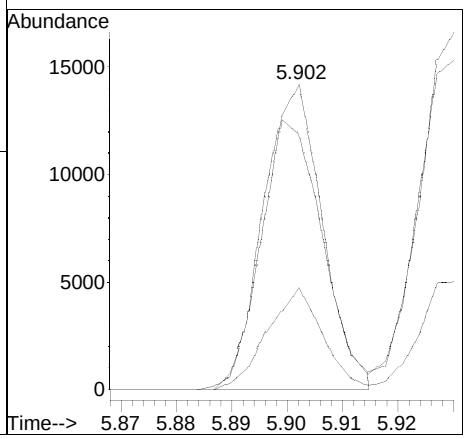


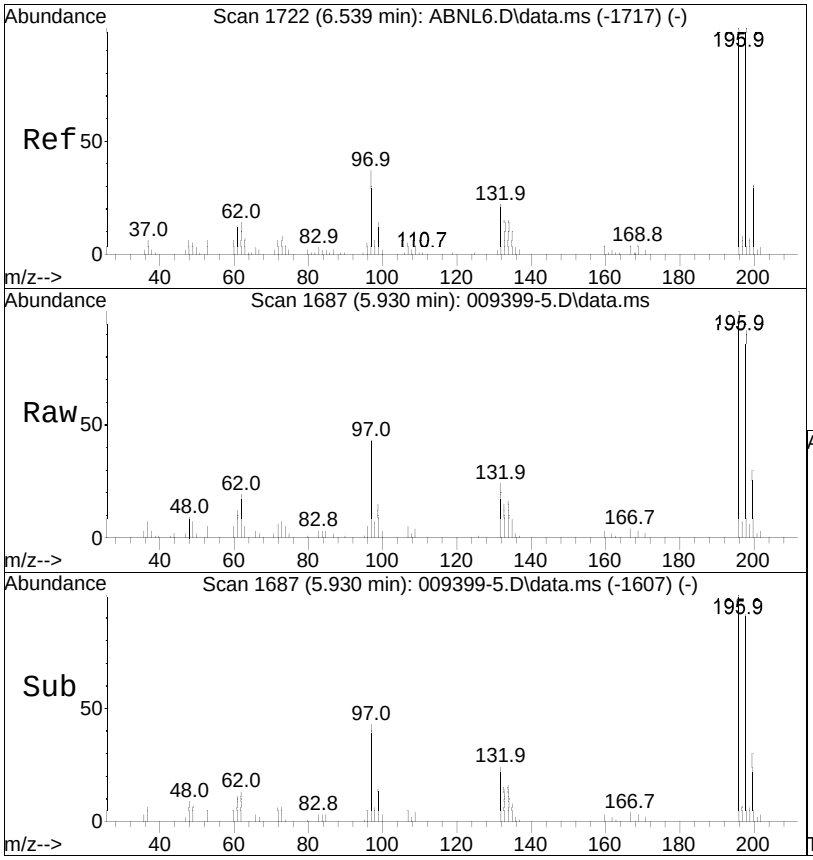


#46
2,4,6-Trichlorophenol
Concen: 1.32 ug/ml
RT: 5.902 min Scan# 1678
Delta R.T. -0.000 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:196 Resp: 10573

Ion	Ratio	Lower	Upper
196	100		
198	91.6	77.5	116.3
200	31.2	23.8	35.6

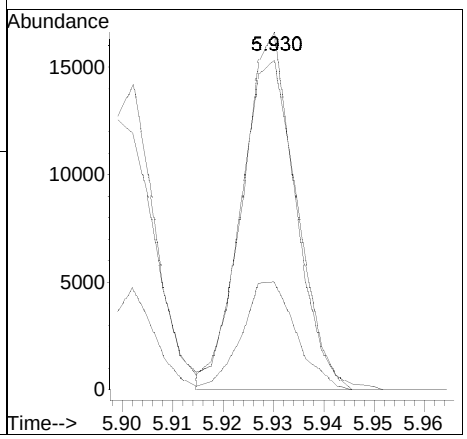


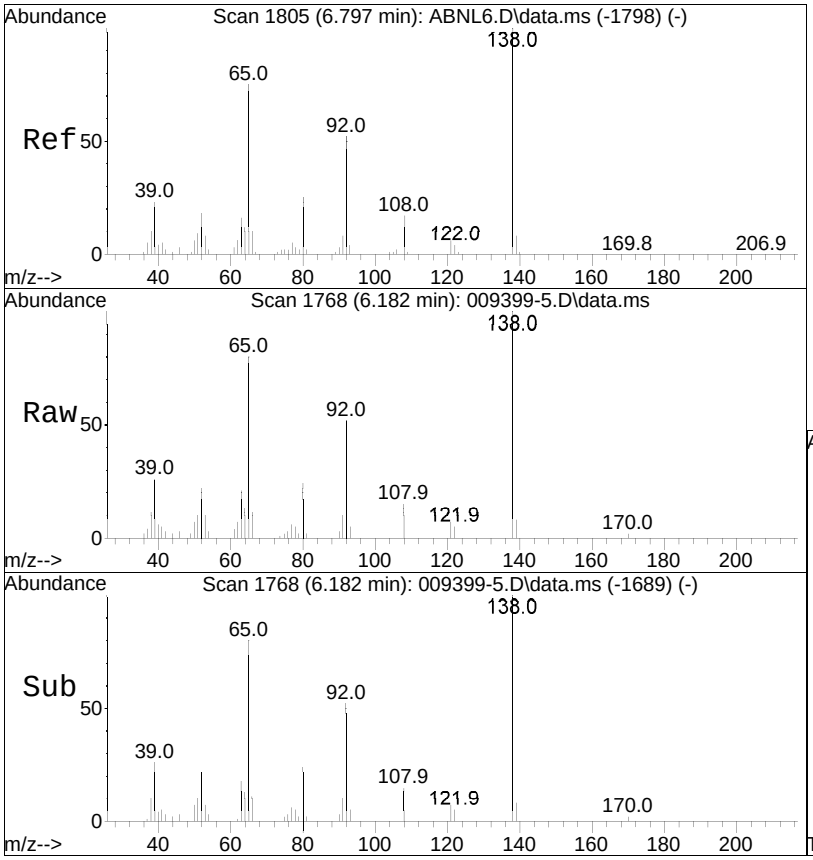


#47
2,4,5-Trichlorophenol
Concen: 1.34 ug/ml
RT: 5.930 min Scan# 1687
Delta R.T. -0.000 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:196 Resp: 11990

Ion	Ratio	Lower	Upper
196	100		
200	31.5	25.4	38.0
198	100.5	78.0	117.0

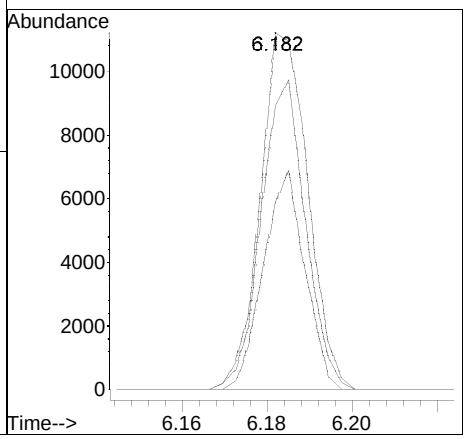


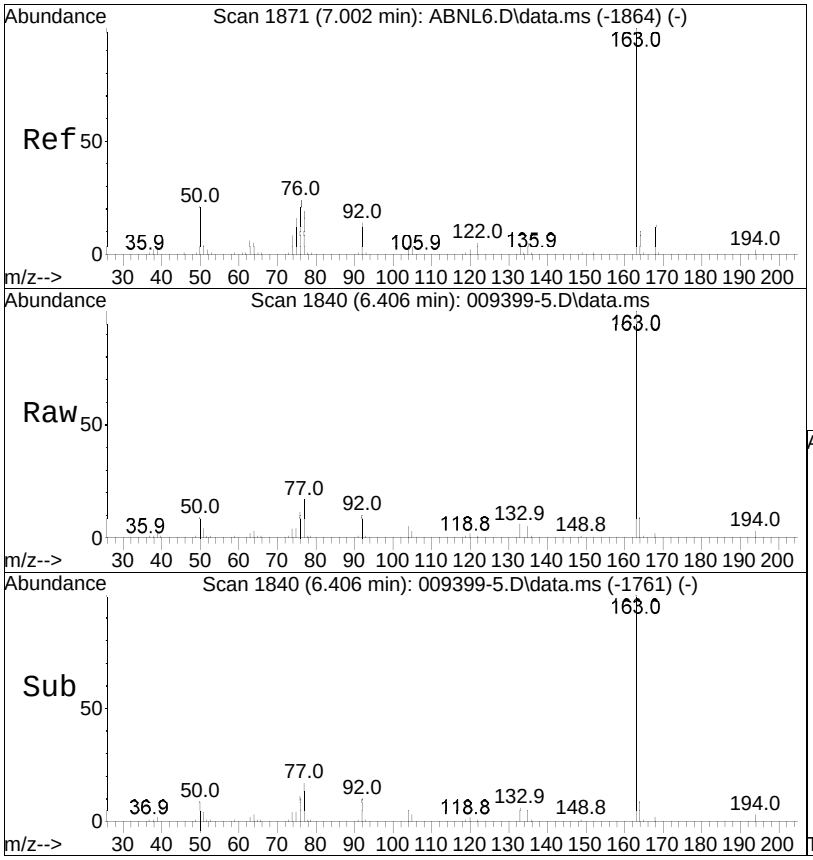


#50
2-Nitroaniline
Concen: 1.42 ug/ml
RT: 6.182 min Scan# 1768
Delta R.T. -0.003 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:138 Resp: 8662

Ion	Ratio	Lower	Upper
138	100		
92	53.6	53.5	80.3
65	80.8	86.3	129.5#

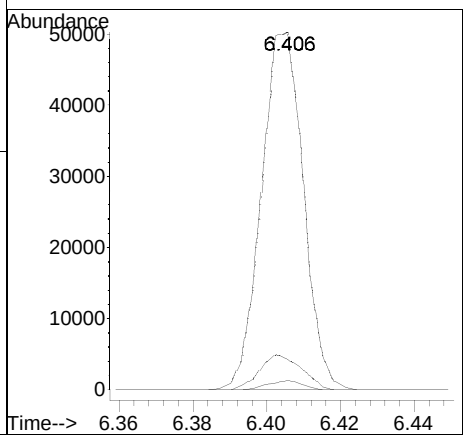


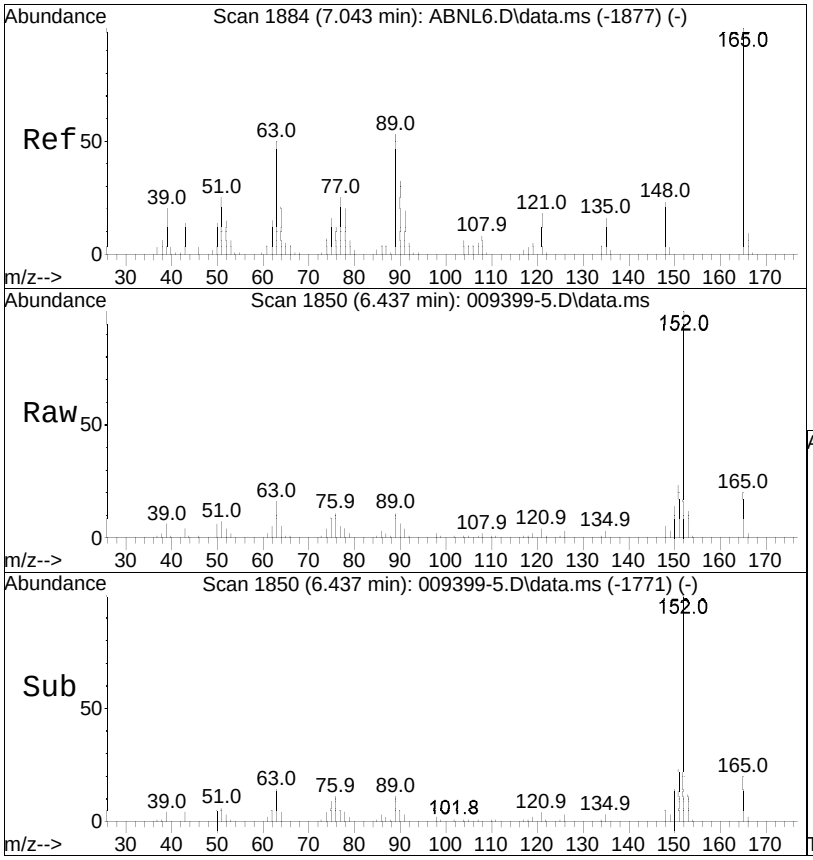


#53
Dimethyl phthalate
Concen: 1.42 ug/ml
RT: 6.406 min Scan# 1840
Delta R.T. -0.003 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:163 Resp: 39256

Ion	Ratio	Lower	Upper
163	100		
194	2.0	3.5	5.3#
164	9.9	7.9	11.9

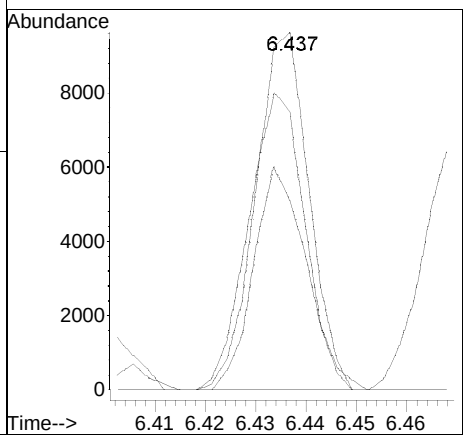


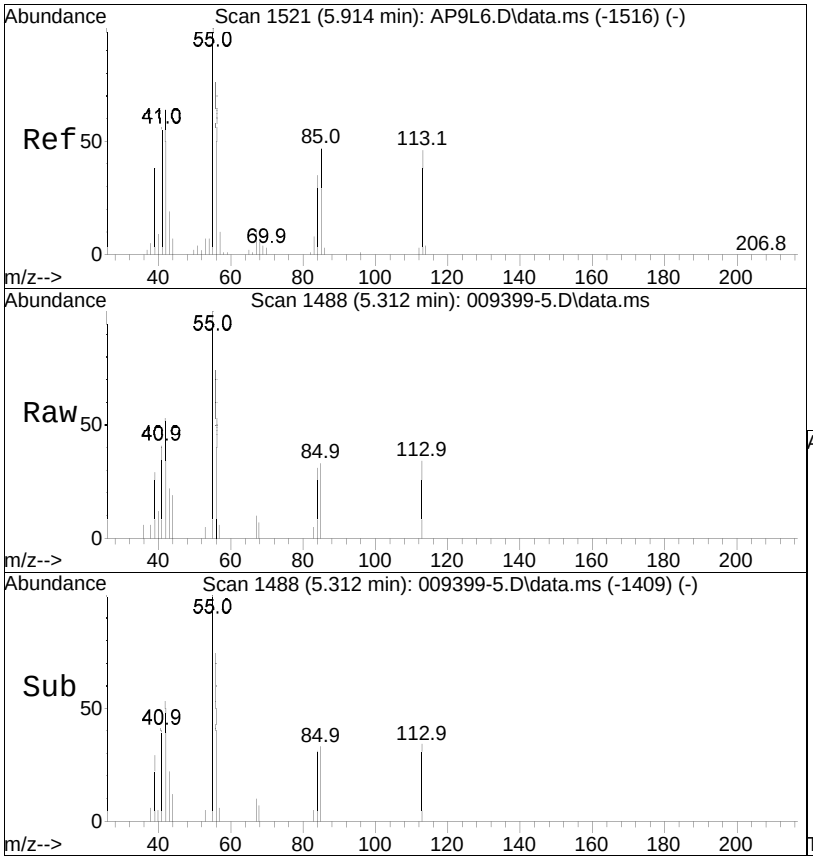


#55
2,6-Dinitrotoluene
Concen: 1.37 ug/ml
RT: 6.437 min Scan# 1850
Delta R.T. -0.003 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:165 Resp: 7096

Ion	Ratio	Lower	Upper
165	100		
89	60.8	54.2	81.2
63	88.6	64.2	96.2

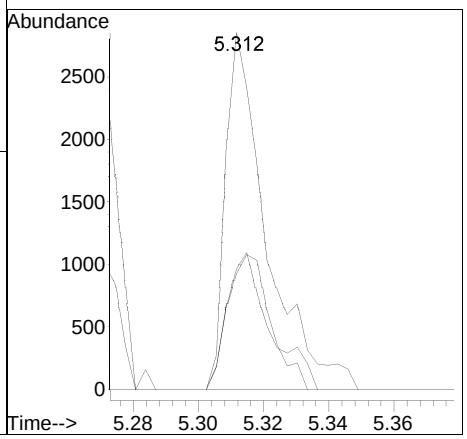


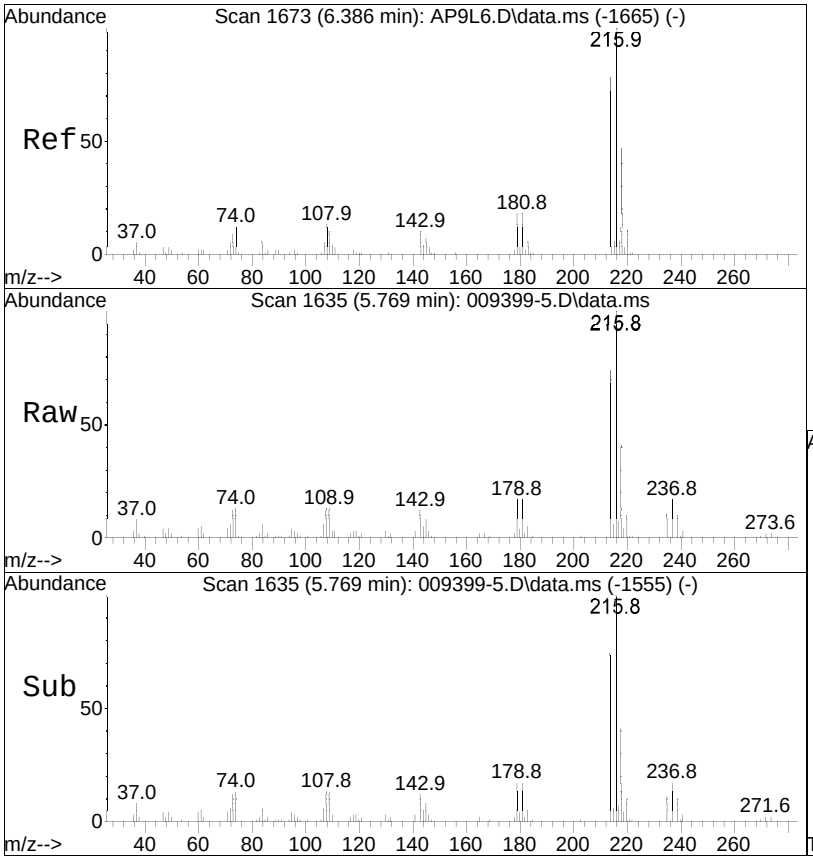


#62
Caprolactam
Concen: 0.73 ug/ml
RT: 5.312 min Scan# 1488
Delta R.T. -0.003 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion: 55 Resp: 2515

Ion	Ratio	Lower	Upper
55	100		
85	39.1	19.8	29.6#
113	39.8	29.6	44.4

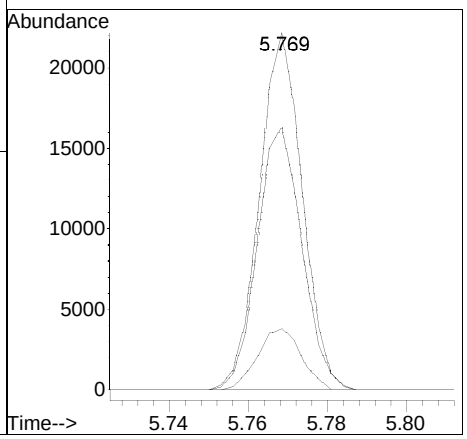


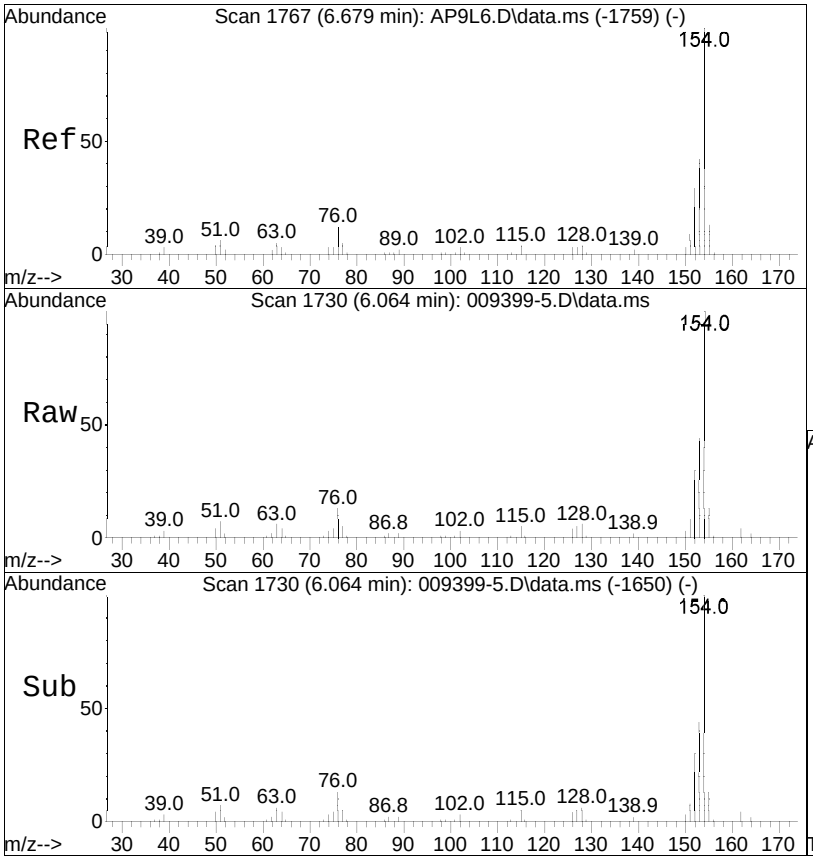


#63
1,2,4,5-Tetrachlorobenzene
Concen: 1.44 ug/ml
RT: 5.769 min Scan# 1635
Delta R.T. -0.000 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:216 Resp: 16582

Ion	Ratio	Lower	Upper
216	100		
214	76.6	63.7	95.5
179	17.6	19.0	28.6#

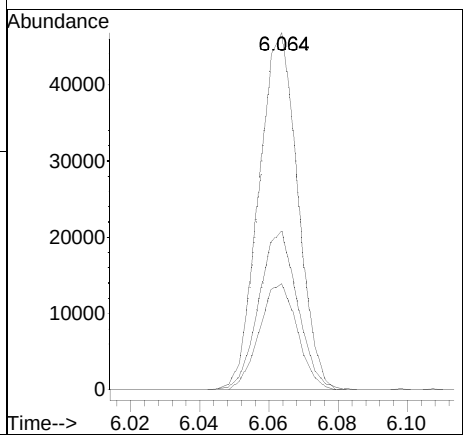


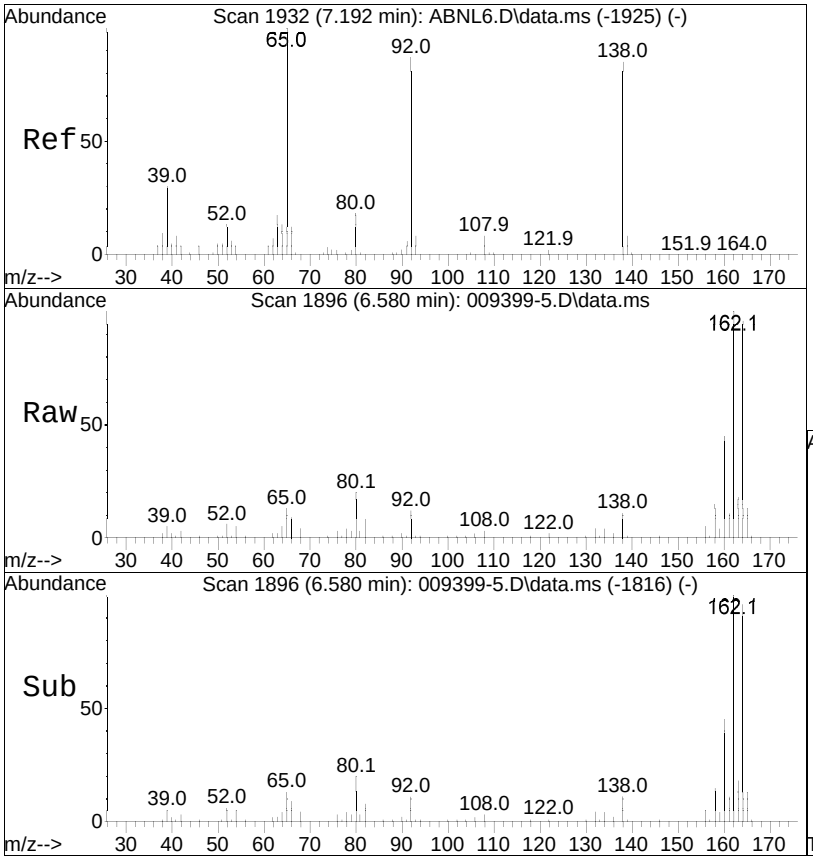


#64
Biphenyl
Concen: 1.54 ug/ml
RT: 6.064 min Scan# 1730
Delta R.T. -0.000 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:154 Resp: 36270

Ion	Ratio	Lower	Upper
154	100		
153	44.5	32.3	48.5
152	29.3	22.5	33.7

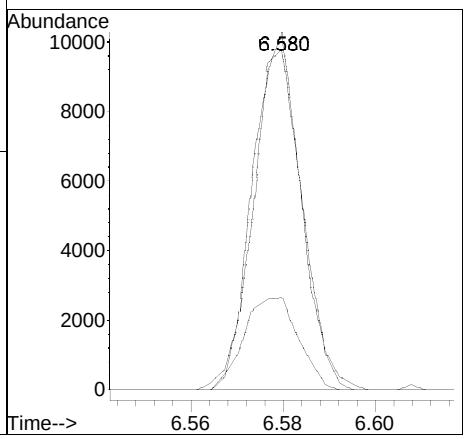


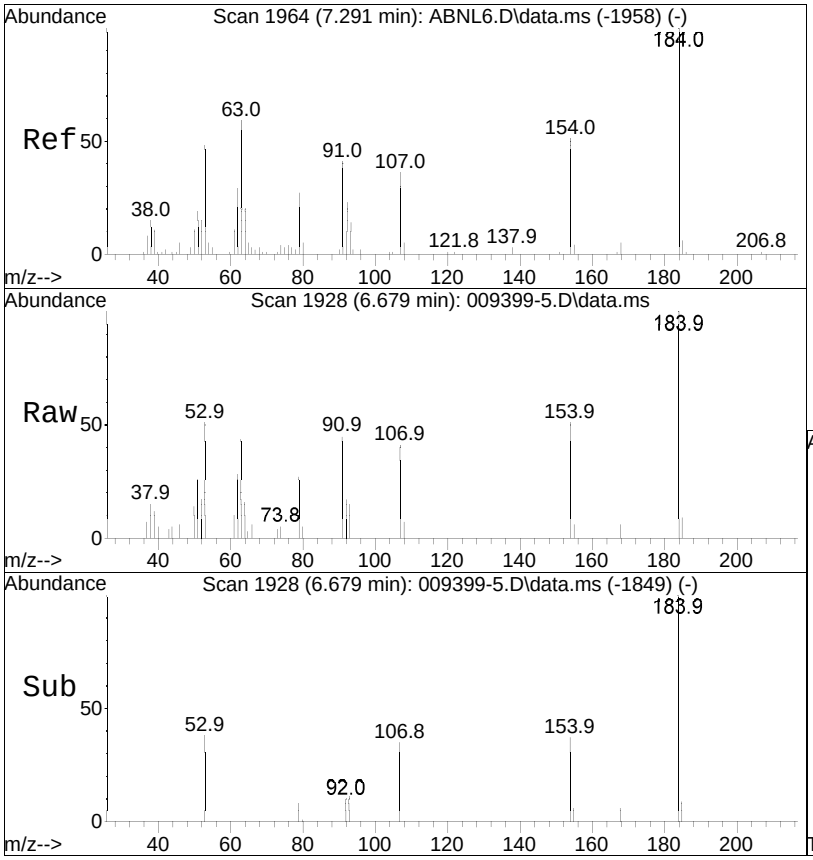


#66
3-Nitroaniline
Concen: 1.24 ug/ml
RT: 6.580 min Scan# 1896
Delta R.T. -0.000 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:138 Resp: 7089

Ion	Ratio	Lower	Upper
138	100		
92	105.2	93.4	140.2
108	30.8	9.5	14.3#

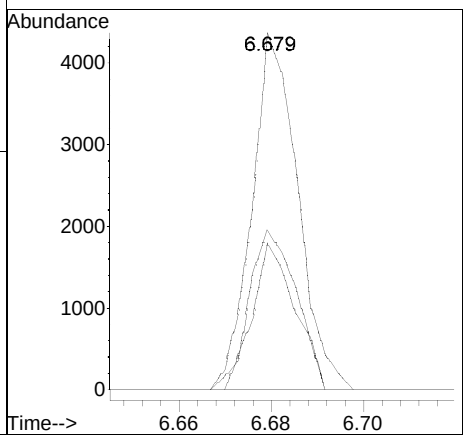


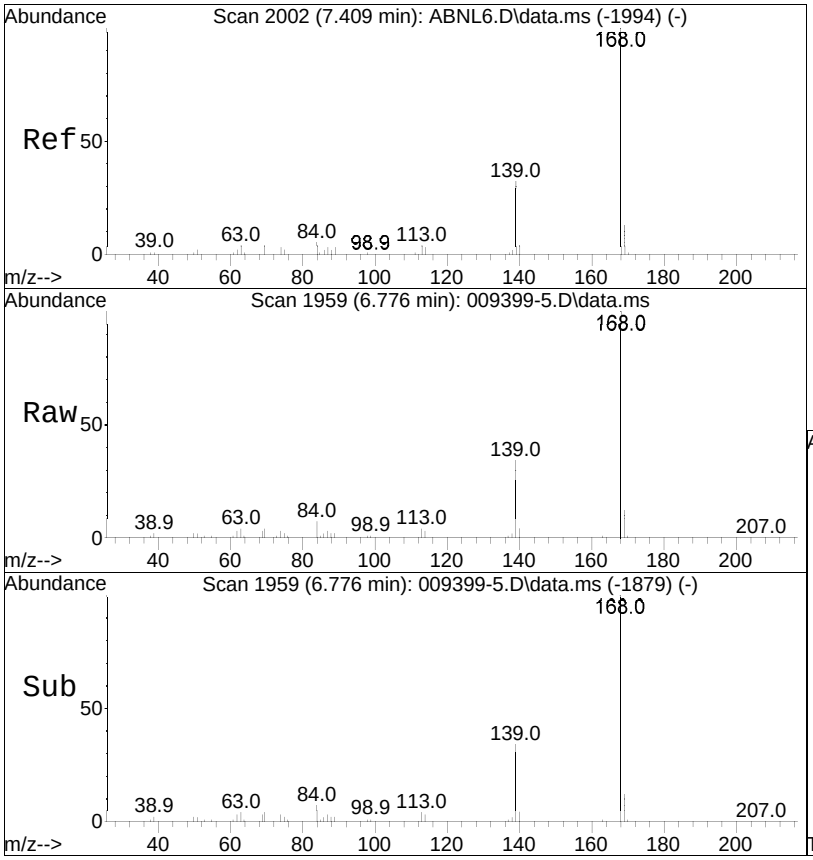


#68
2,4-Dinitrophenol
Concen: 0.86 ug/ml
RT: 6.679 min Scan# 1928
Delta R.T. -0.003 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:184 Resp: 2990

Ion	Ratio	Lower	Upper
184	100		
107	38.4	37.7	56.5
91	46.3	46.3	69.5#

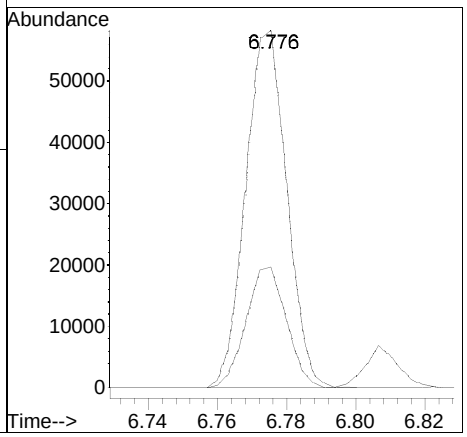


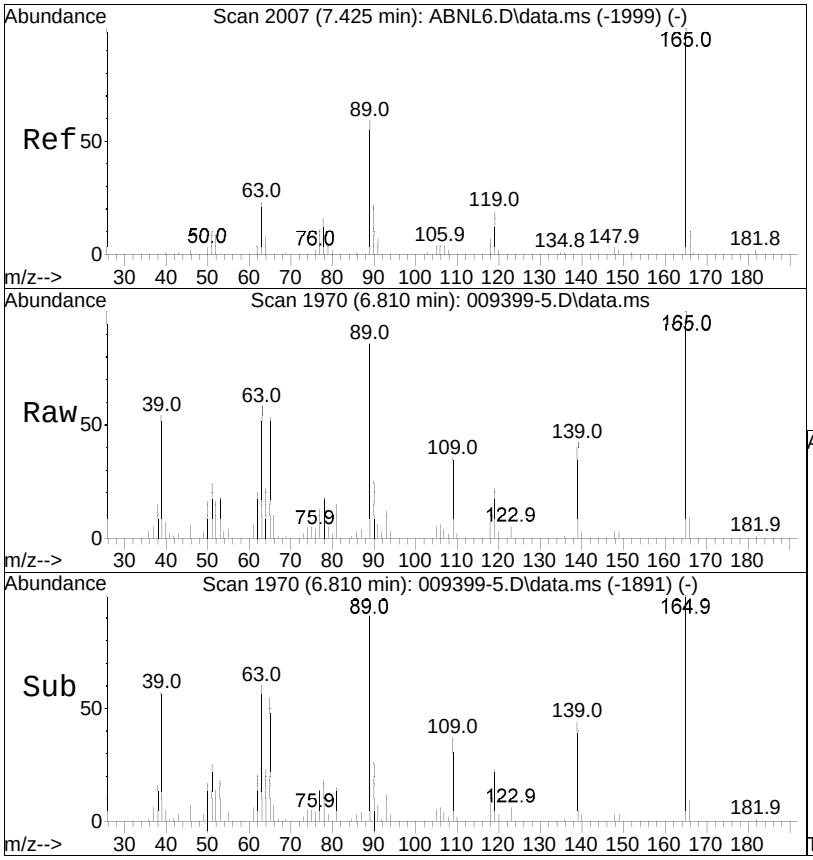


#69
Dibenzofuran
Concen: 1.29 ug/ml
RT: 6.776 min Scan# 1959
Delta R.T. -0.000 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:168 Resp: 47643

Ion	Ratio	Lower	Upper
168	100		
139	33.3	31.4	47.2

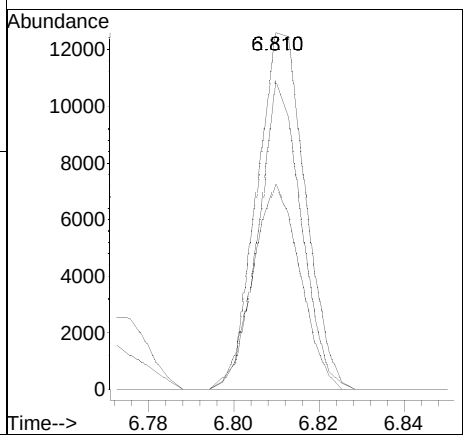


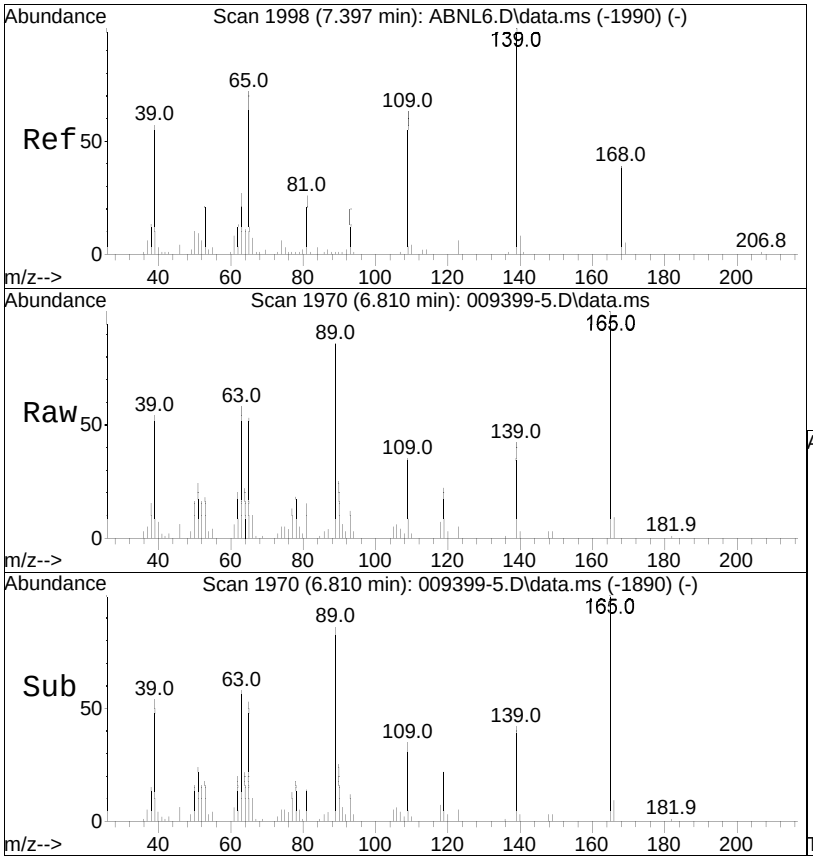


#70
2,4-Dinitrotoluene
Concen: 1.39 ug/ml
RT: 6.810 min Scan# 1970
Delta R.T. -0.003 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:165 Resp: 9907

Ion	Ratio	Lower	Upper
165	100		
89	76.7	72.0	108.0
63	56.9	52.7	79.1

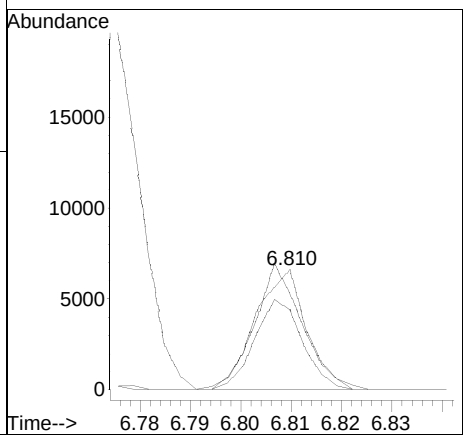


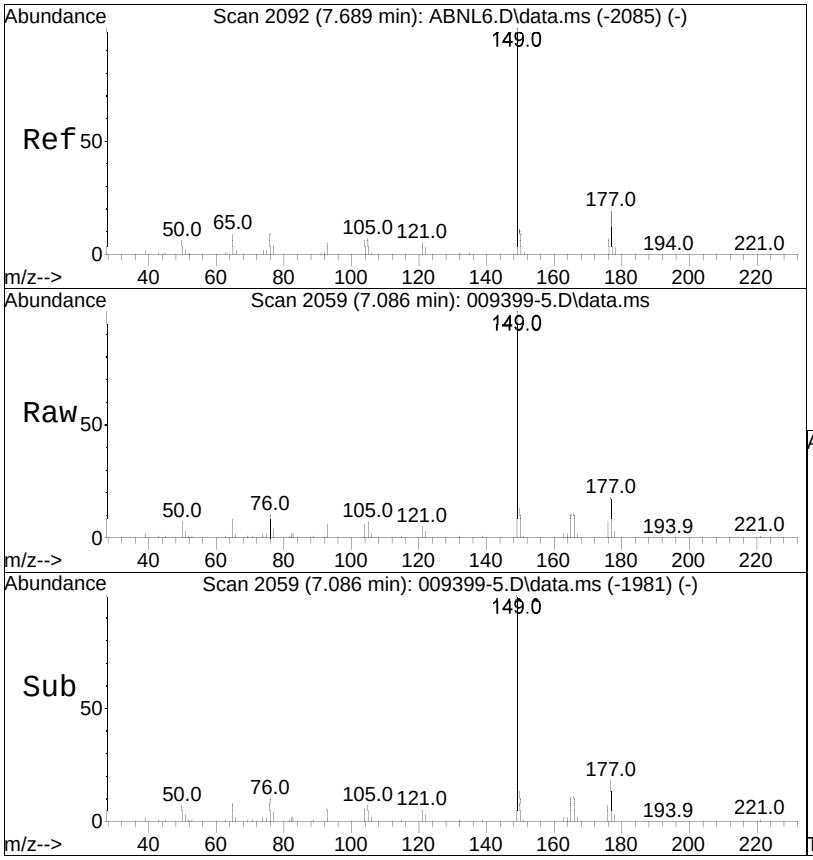


#71
4-Nitrophenol
Concen: 1.10 ug/ml
RT: 6.810 min Scan# 1970
Delta R.T. -0.000 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion: 65 Resp: 4681

Ion	Ratio	Lower	Upper
65	100		
109	70.0	47.4	71.2
139	97.9	76.6	115.0

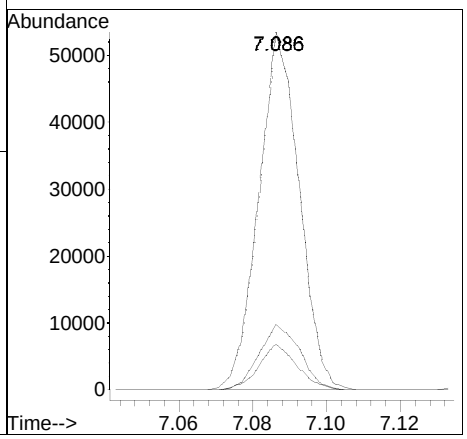


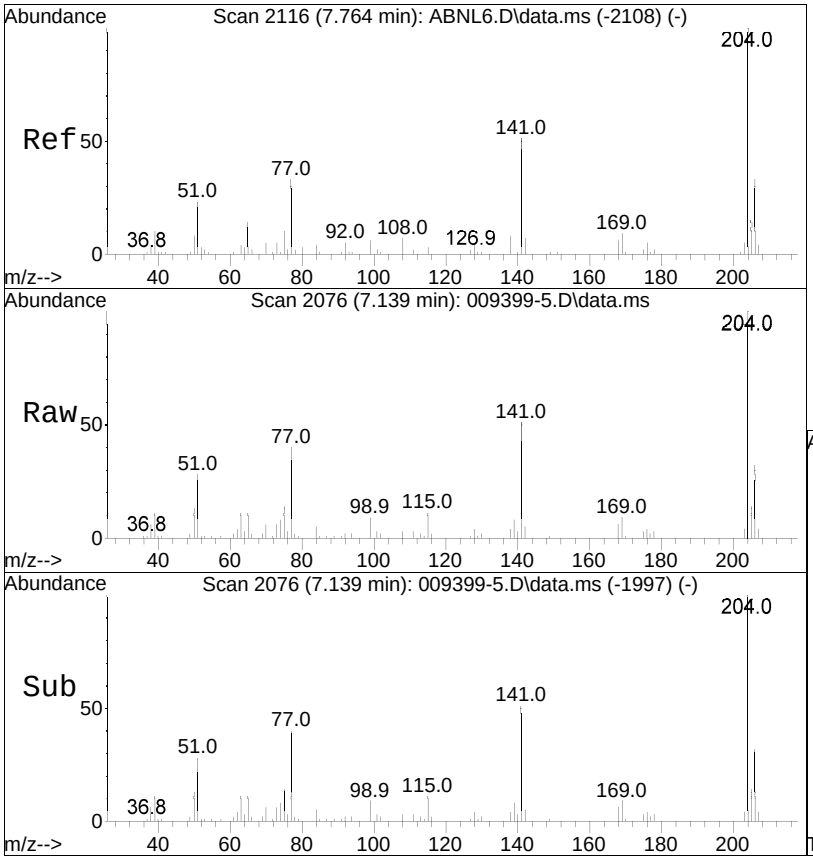


#74
Diethyl phthalate
Concen: 1.39 ug/ml
RT: 7.086 min Scan# 2059
Delta R.T. -0.006 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:149 Resp: 40257

Ion	Ratio	Lower	Upper
149	100		
177	18.5	16.1	24.1
150	12.1	9.4	14.2

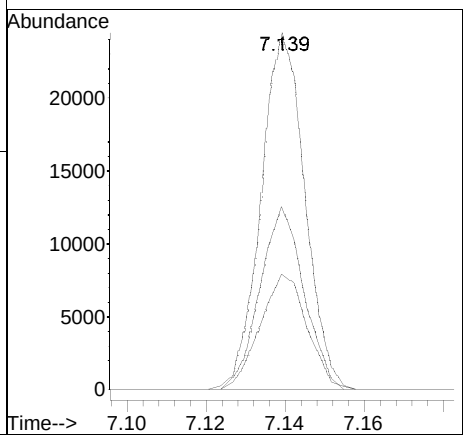


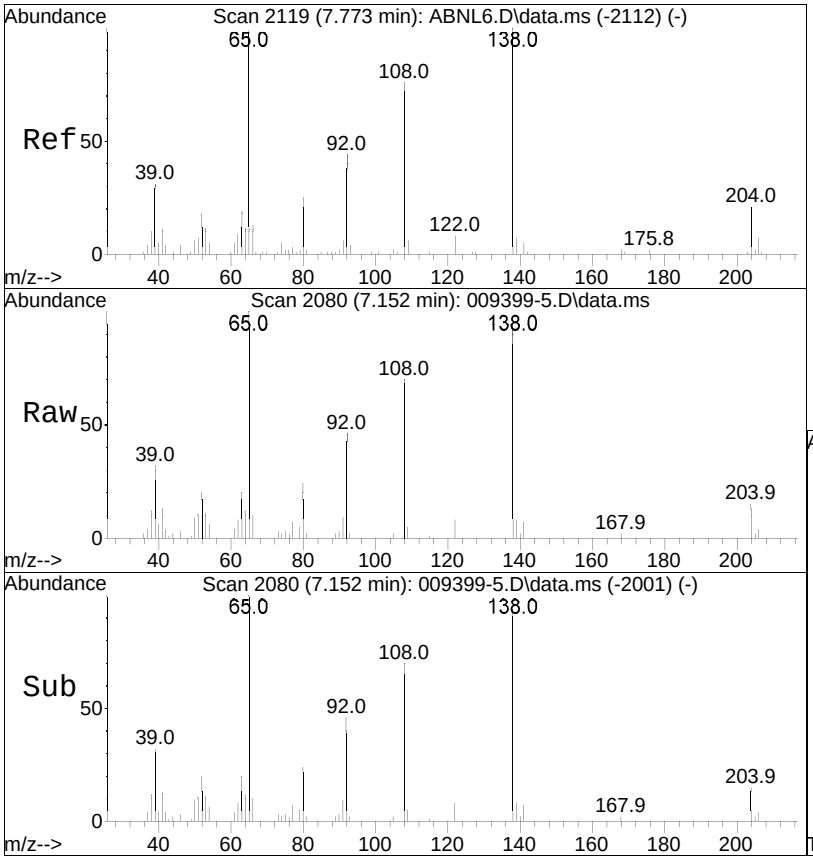


#76
4-Chlorophenyl phenyl ether
Concen: 1.28 ug/ml
RT: 7.139 min Scan# 2076
Delta R.T. -0.003 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:204 Resp: 18661

Ion	Ratio	Lower	Upper
204	100		
206	34.9	25.8	38.6
141	51.5	53.6	80.4#

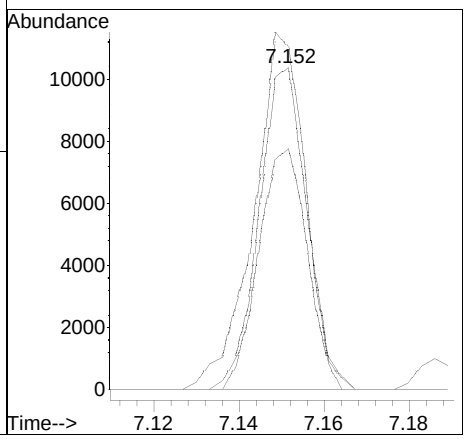


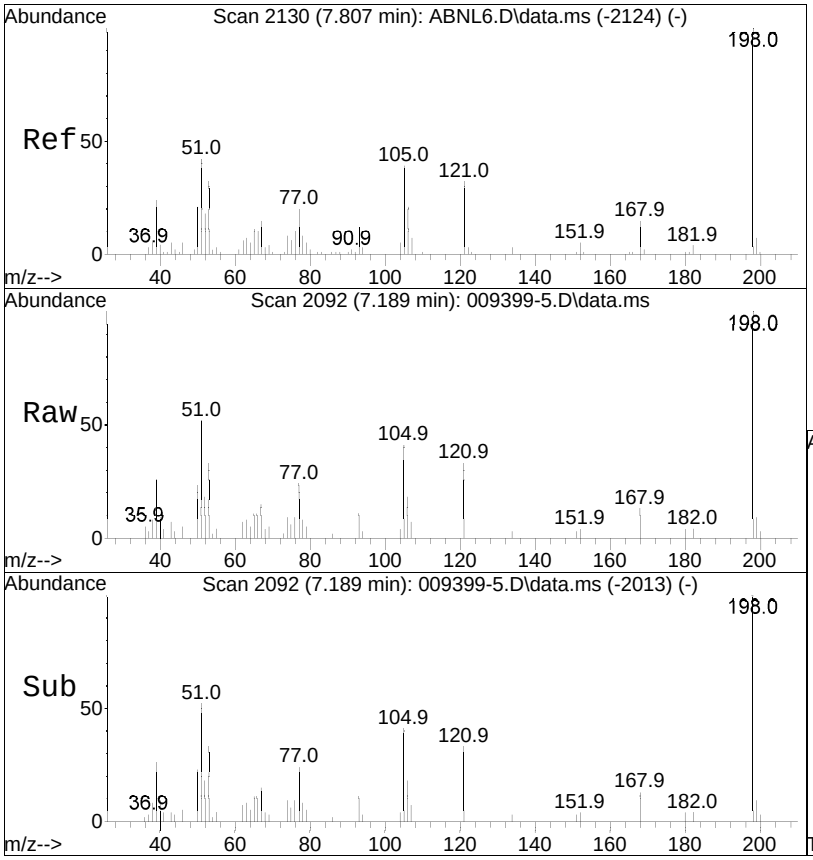


#77
4-Nitroaniline
Concen: 1.46 ug/ml
RT: 7.152 min Scan# 2080
Delta R.T. -0.003 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:138 Resp: 8066

Ion	Ratio	Lower	Upper
138	100		
108	75.9	52.1	78.1
65	119.4	115.0	172.6

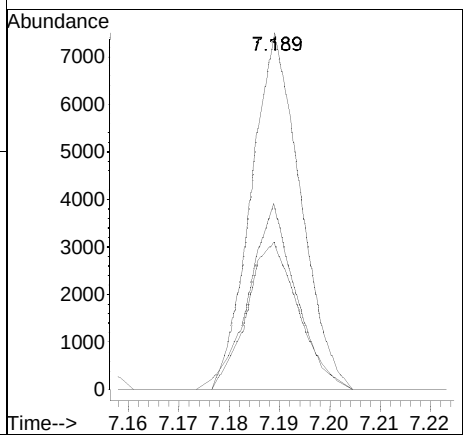


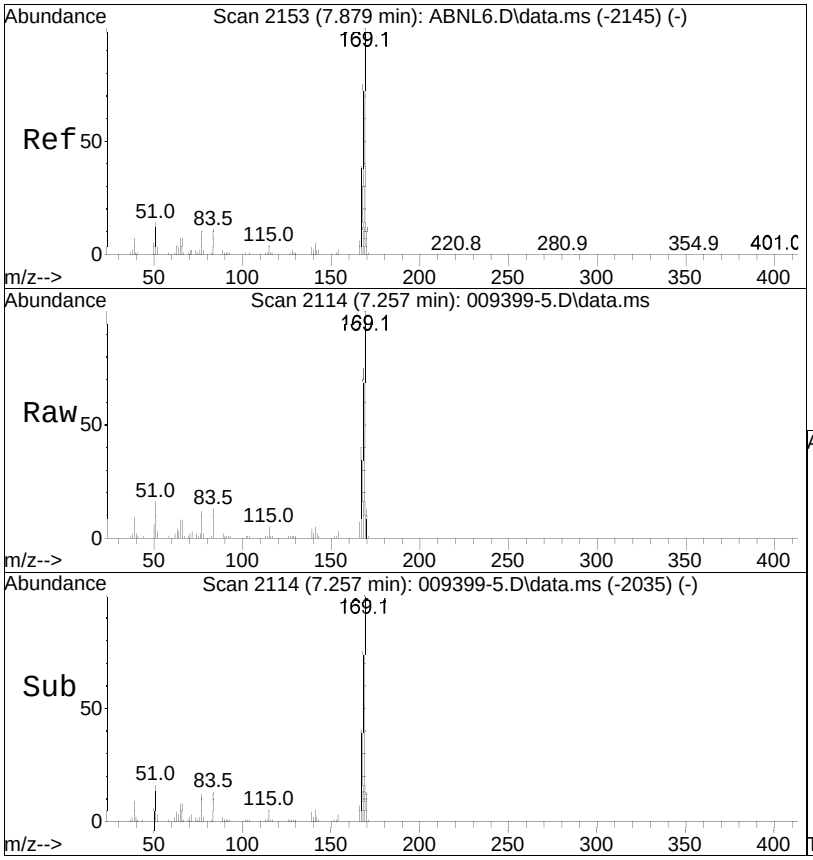


#78
4,6-Dinitro-o-cresol
Concen: 1.18 ug/ml
RT: 7.189 min Scan# 2092
Delta R.T. -0.003 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:198 Resp: 5093

Ion	Ratio	Lower	Upper
198	100		
51	49.8	76.0	114.0#
105	43.4	45.6	68.4#

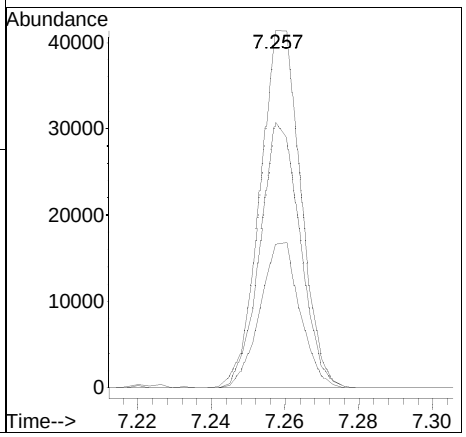


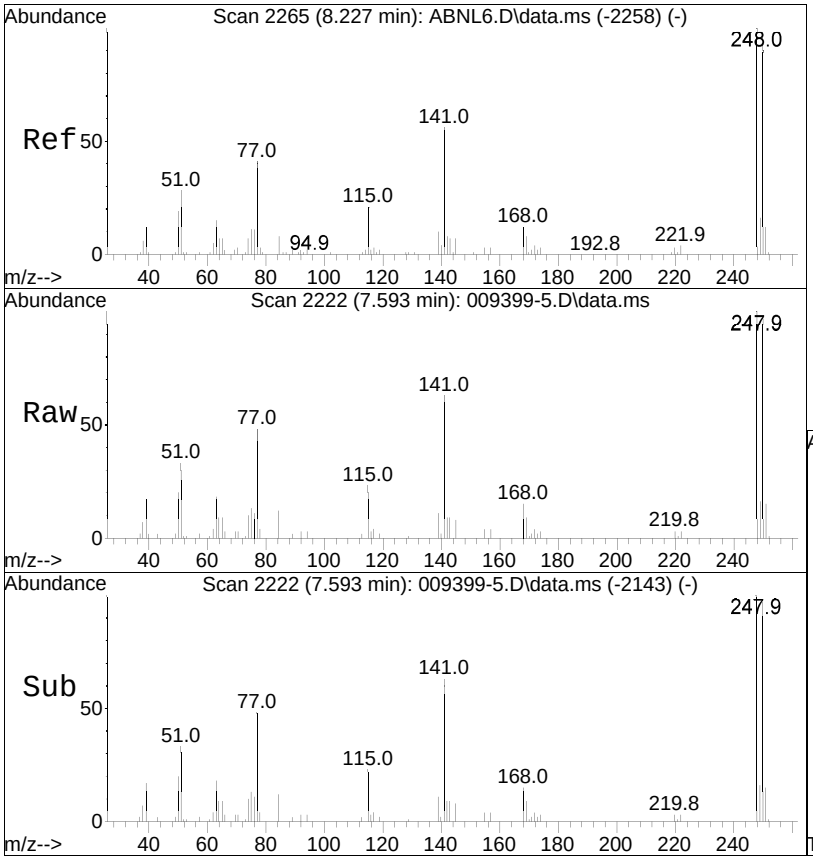


#79
NDPA/DPA
Concen: 1.29 ug/ml
RT: 7.257 min Scan# 2114
Delta R.T. -0.003 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:169 Resp: 31791

Ion	Ratio	Lower	Upper
169	100		
168	72.9	54.0	81.0
167	39.9	28.6	42.8

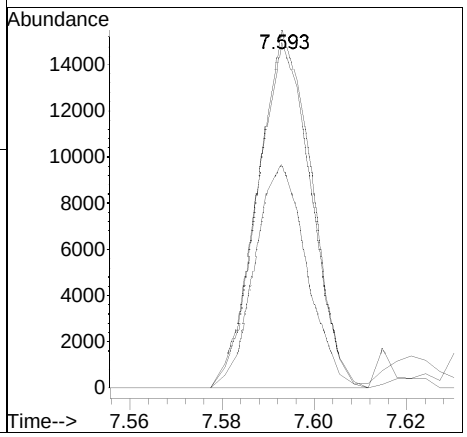


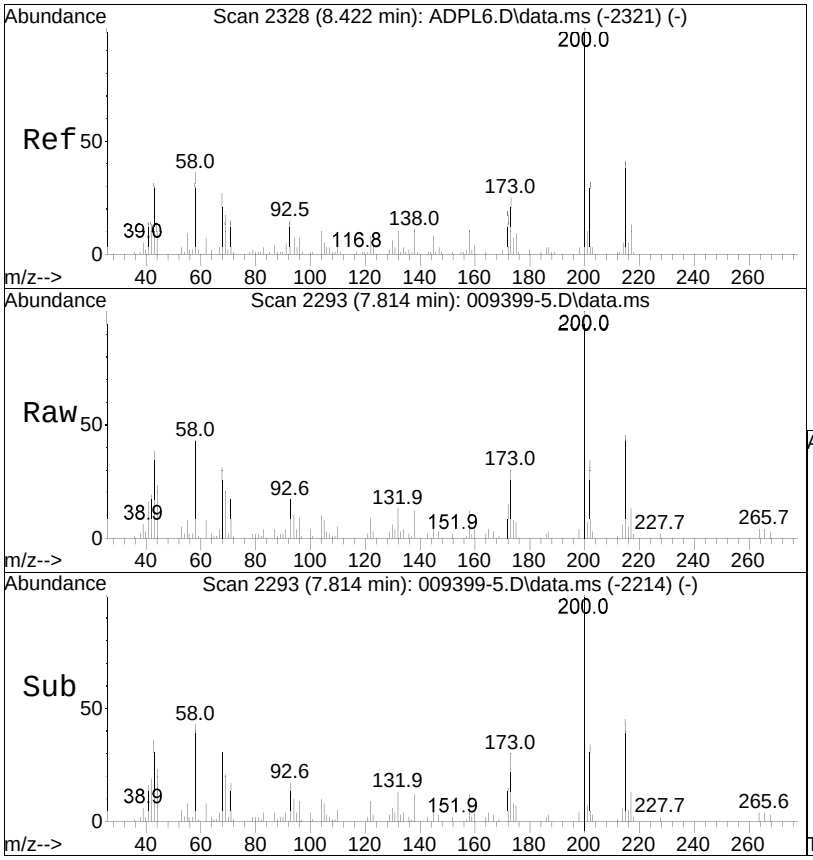


#82
4-Bromophenyl phenyl ether
Concen: 1.29 ug/ml
RT: 7.593 min Scan# 2222
Delta R.T. -0.003 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:248 Resp: 12437

Ion	Ratio	Lower	Upper
248	100		
141	60.7	76.6	114.8#
250	97.4	77.3	115.9

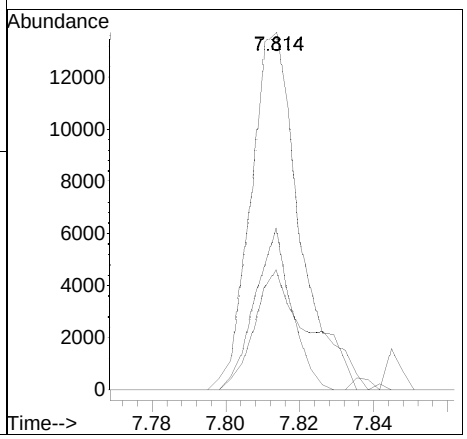


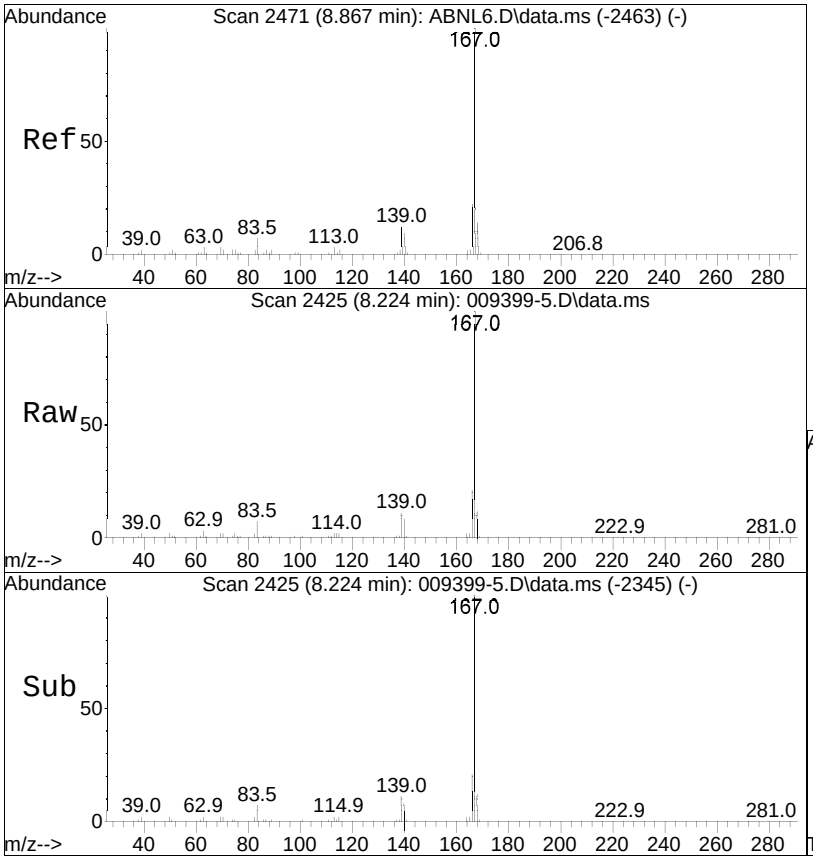


#89
Atrazine
Concen: 1.97 ug/ml
RT: 7.814 min Scan# 2293
Delta R.T. -0.003 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:200 Resp: 12452

Ion	Ratio	Lower	Upper
200	100		
202	39.2	25.8	38.6#
215	34.3	40.2	60.4#

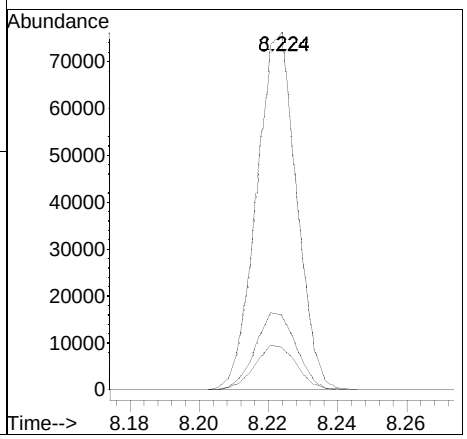


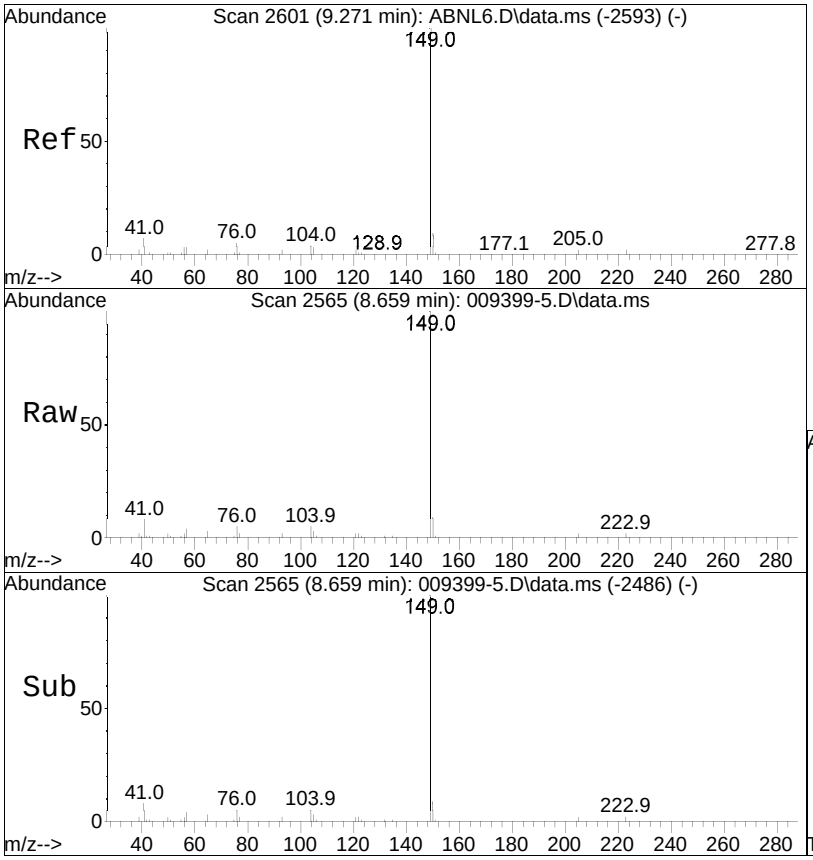


#93
Carbazole
Concen: 1.37 ug/ml
RT: 8.224 min Scan# 2425
Delta R.T. -0.000 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:167 Resp: 60668

Ion	Ratio	Lower	Upper
167	100		
168	13.1	10.6	15.8
166	22.2	17.4	26.0

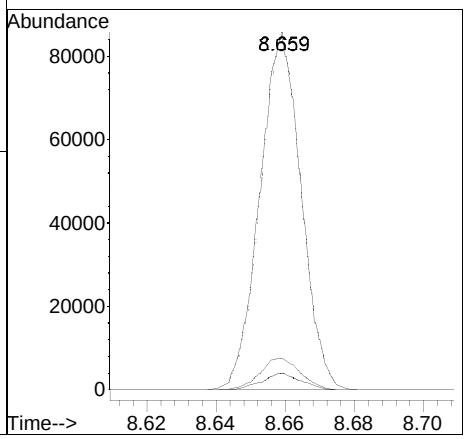


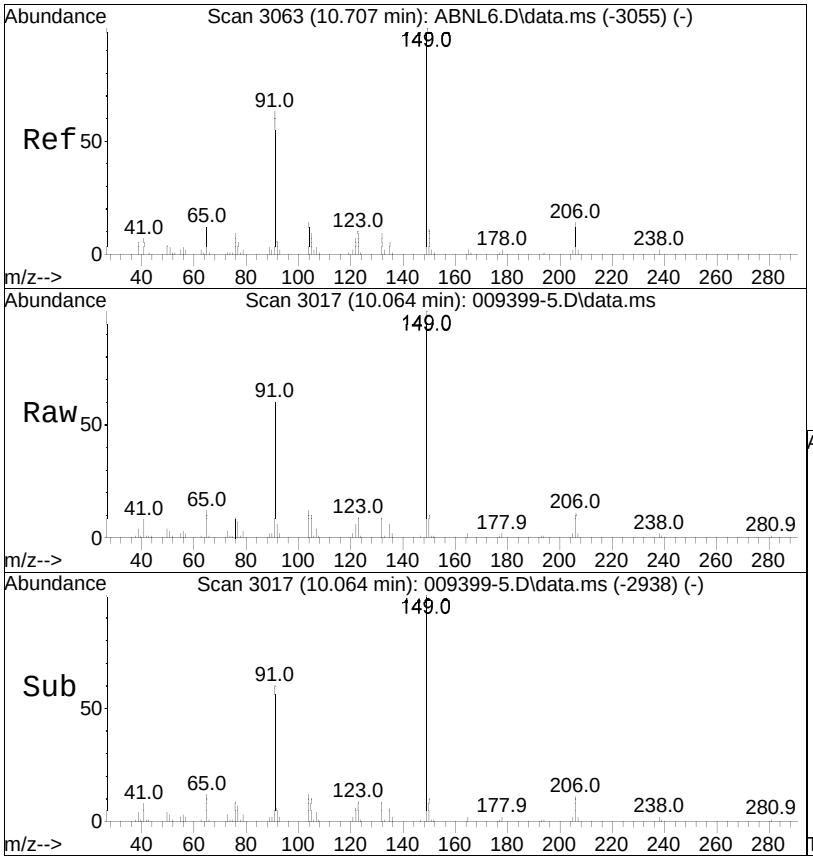


#94
Di-n-butylphthalate
Concen: 1.40 ug/ml
RT: 8.659 min Scan# 2565
Delta R.T. -0.003 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:149 Resp: 70008

Ion	Ratio	Lower	Upper
149	100		
150	8.6	7.0	10.6
104	4.4	4.5	6.7#

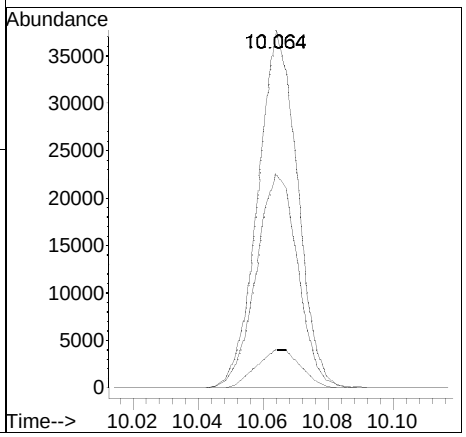


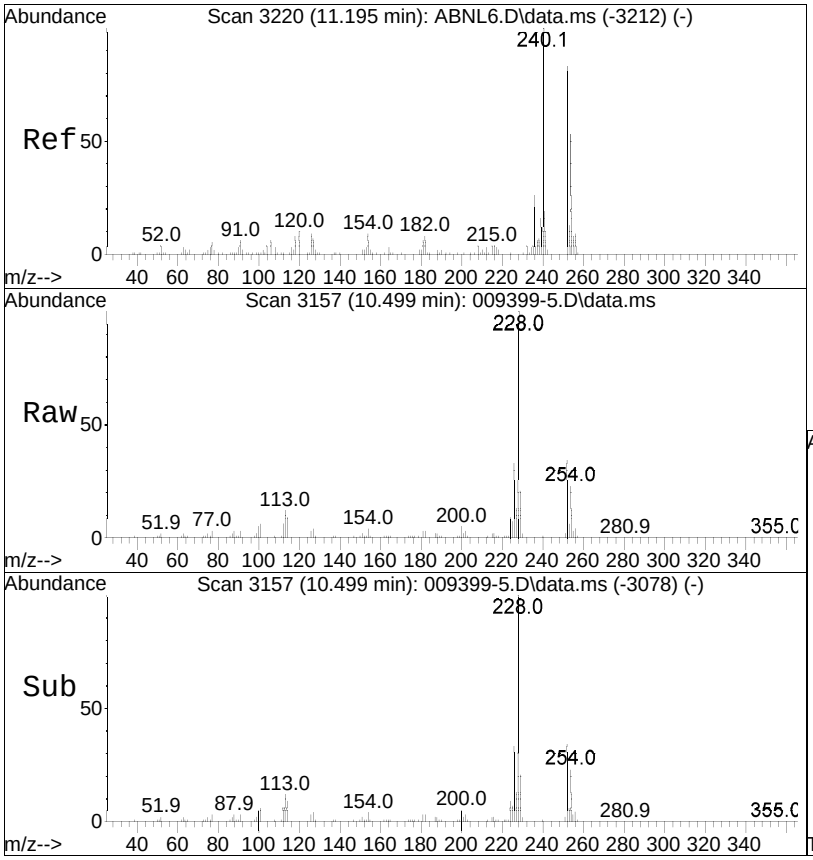


#99
Butyl benzyl phthalate
Concen: 1.47 ug/ml
RT: 10.064 min Scan# 3017
Delta R.T. -0.003 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:149 Resp: 31553

Ion	Ratio	Lower	Upper
149	100		
91	63.2	63.3	94.9#
206	11.9	13.9	20.9#

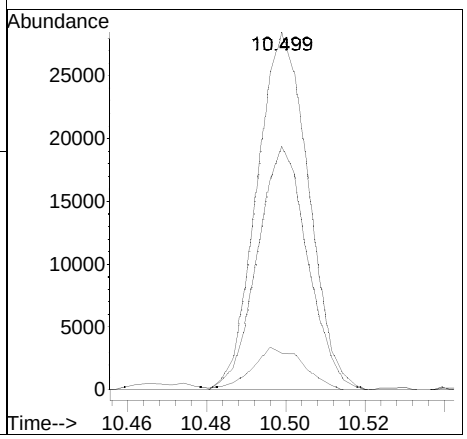


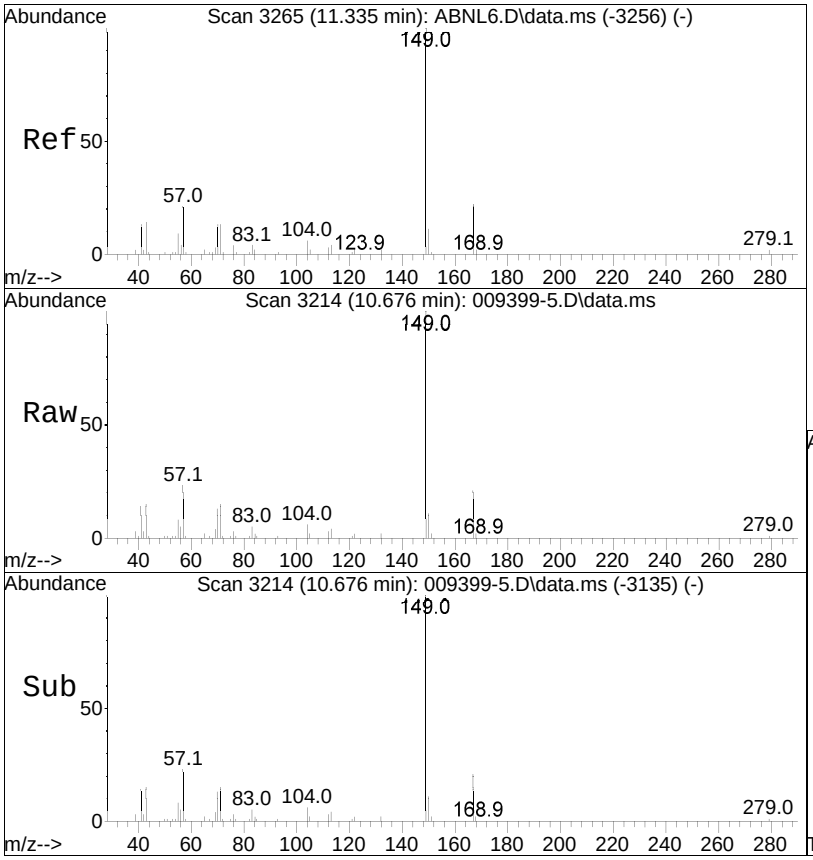


#108
3,3'-Dichlorobenzidine
Concen: 1.10 ug/ml
RT: 10.499 min Scan# 3157
Delta R.T. -0.003 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:252 Resp: 25692

Ion	Ratio	Lower	Upper
252	100		
126	12.0	14.5	21.7#
254	66.5	51.2	76.8

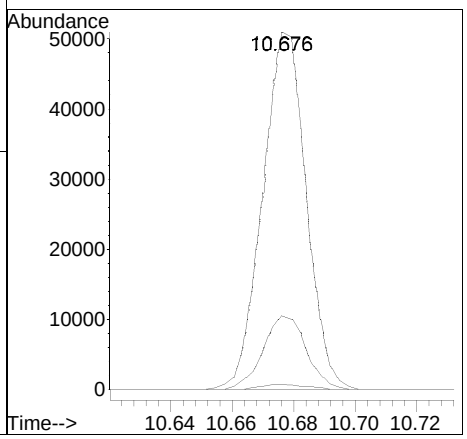


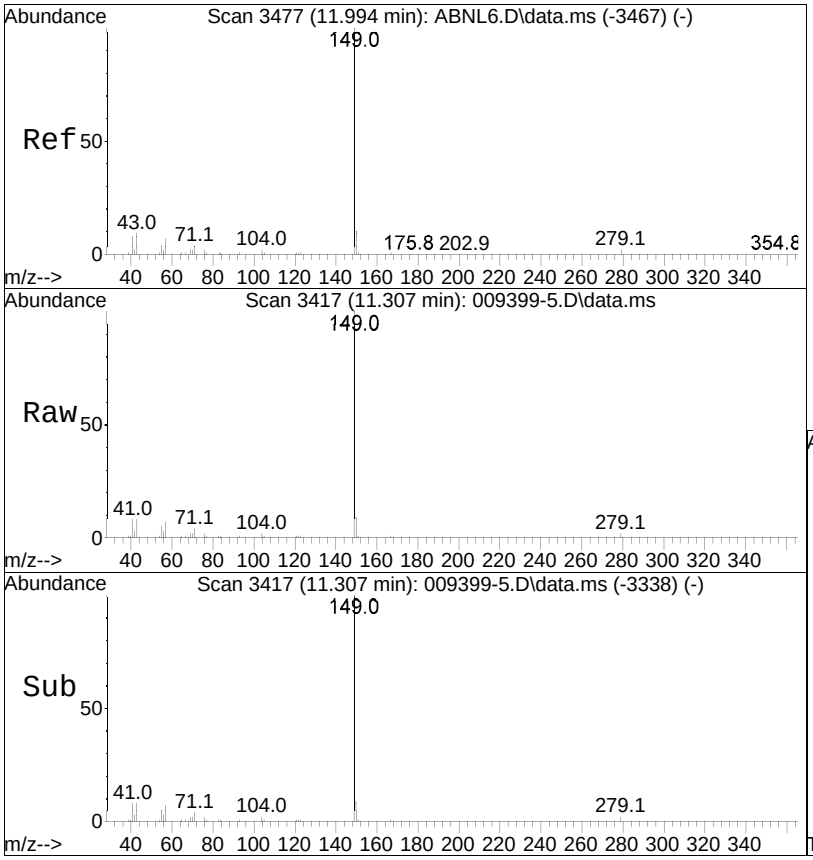


#110
Bis(2-ethylhexyl)phthalate
Concen: 1.48 ug/ml
RT: 10.676 min Scan# 3214
Delta R.T. -0.003 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:149 Resp: 49692

Ion	Ratio	Lower	Upper
149	100		
167	20.5	22.1	33.1#
279	1.3	3.0	4.4#

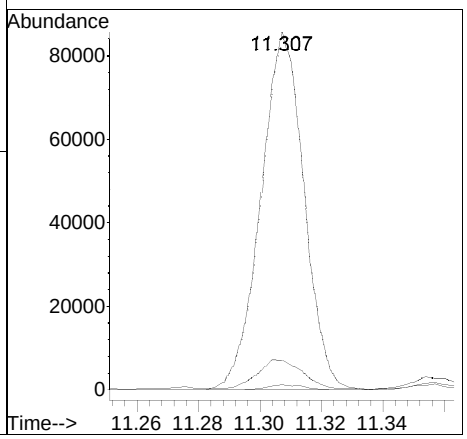




#111
Di-n-octylphthalate
Concen: 1.47 ug/ml
RT: 11.307 min Scan# 3417
Delta R.T. -0.003 min
Lab File: 009399-5.D
Acq: 17 Dec 2024 6:10 am

Tgt Ion:149 Resp: 82511

Ion	Ratio	Lower	Upper
149	100		
43	8.7	18.8	28.2#
167	1.2	1.3	1.9#



Manual Integration Report

Data Path	: I:\8270\Dakota\241216NARVTQ	Method	: FS241105RVT_Dakota.m
Data File	: 009399-5.D	Operator	: Dakota:smz
Date Inj'd	: 12/17/2024 6:10 am	Instrument	: Dakota
Sample	: WG2009399-5,32,,ASK	Quant Date	: 12/17/2024 6:29 am

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

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)

Dec 19 2024, 03:10 pm

Work Group: WG2009399 for Department: 2 Organic Preparation

Created: 15-DEC-24 Due: Operator: NBD

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2473162-01	MW-11S	C	NYTCL-8270-RVT	WATER	DONE	U	1219	1219	S0	Amber-A.1
L2473162-02	MW-11D	C	NYTCL-8270-RVT	WATER	DONE	U	1219	1219	S0	Amber-A.1
L2473162-03	MW-1SR	C	NYTCL-8270-RVT	WATER	DONE	U	1219	1219	S0	Amber-A.1
L2473162-04	MW-1DR2	C	NYTCL-8270-RVT	WATER	DONE	U	1219	1219	S0	Amber-A.1
L2473162-05	MP-1	C	NYTCL-8270-RVT	WATER	DONE	U	1219	1219	S0	Amber-A.1
L2473162-06	MP-1D	C	NYTCL-8270-RVT	WATER	DONE	U	1219	1219	S0	Amber-A.1
L2473162-07	DUP_121224	C	NYTCL-8270-RVT	WATER	DONE	U	1219	1219	S0	Amber-A.1
L2473162-08	MW-13S	C	NYTCL-8270-RVT	WATER	DONE	U	1219	1219	S0	Amber-A.1
L2473162-09	MW-13D	C	NYTCL-8270-RVT	WATER	DONE	U	1219	1219	S0	Amber-A.1
L2473162-10	EB_121224	C	NYTCL-8270-RVT	WATER	DONE	U	1219	1219	S0	Amber-A.1
WG2009399-1	Laboratory Method Bl	S	NYTCL-8270-RVT	WATER	DONE	U				
WG2009399-2	Laboratory Control S	S	NYTCL-8270-RVT	WATER	DONE	U				
WG2009399-3	LCS Duplicate	S	NYTCL-8270-RVT	WATER	DONE	U				
WG2009399-4	Matrix Spike	S	NYTCL-8270-RVT	WATER	DONE	U				
WG2009399-5	Matrix Spike Duplica	S	NYTCL-8270-RVT	WATER	DONE	U				

Comments:

WG2009399-3	WG2009399-2
WG2009399-4	L2473162-06
WG2009399-5	L2473162-06

Analysis log File

Total Files Reported in Log : 33
Log Generated From Directory: I:\8270\SV107\240730ical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	Tune1.D	8270RVT.M	Tune lot #10903	WG1954578,,	7/30/2024 7:00 pm
2	ABNL9.D	8270RVT.M	IL2,32,,ABNL50 Lot# 107	WG1954578,,	7/30/2024 7:25 pm
3	ABNL8.D	8270RVT.M	IL3,32,,ABNL25 Lot# 107	WG1954578,,	7/30/2024 7:51 pm
4	ABNL7.D	8270RVT.M	IL4,32,,ABNL10 Lot# 107	WG1954578,,	7/30/2024 8:16 pm
5	ABNL6.D	8270RVT.M	IL5,32,,ABNL5 Lot# 1078	WG1954578,,	7/30/2024 8:42 pm
6	ABNL5.D	8270RVT.M	IL6,32,,ABNL2.5 Lot# 10	WG1954578,,	7/30/2024 9:08 pm
7	ABNL4.D	8270RVT.M	IL7,32,,ABNL1 Lot# 1078	WG1954578,,	7/30/2024 9:33 pm
8	ABNL3.D	8270RVT.M	IL8,32,,ABNL0.5 Lot# 10	WG1954578,,	7/30/2024 9:59 pm
9	ABNL2.D	8270RVT.M	IL9,32,,ABNL0.2 Lot# 10	WG1954578,,	7/30/2024 10:24 pm
10	ABNL1.D	8270RVT.M	IL10,32,,ABNL0.1 Lot# 1	WG1954578,,	7/30/2024 10:50 pm
11	AP9L9.D	8270RVT.M	IL2,32,,AP9L50 Lot# 107	WG1954578,,	7/30/2024 11:15 pm
12	AP9L8.D	8270RVT.M	IL3,32,,AP9L25 Lot# 107	WG1954578,,	7/30/2024 11:40 pm
13	AP9L5.D	8270RVT.M	IL6,32,,AP9L2.5 Lot# 10	WG1954578,,	7/31/2024 12:57 am
14	AP9L6.D	8270RVT.M	IL5,32,,AP9L5 Lot# 1079	WG1954578,,	7/31/2024 12:31 am
15	AP9L7.D	8270RVT.M	IL4,32,,AP9L10 Lot# 107	WG1954578,,	7/31/2024 12:06 am
16	AP9L4.D	8270RVT.M	IL7,32,,AP9L1 Lot# 1079	WG1954578,,	7/31/2024 1:22 am
17	AP9L3.D	8270RVT.M	IL8,32,,AP9L0.5 Lot# 10	WG1954578,,	7/31/2024 1:47 am
18	AP9L2.D	8270RVT.M	IL9,32,,AP9L0.2 Lot# 10	WG1954578,,	7/31/2024 2:13 am
19	AP9L1.D	8270RVT.M	IL10,32,,AP9L0.1 Lot# 1	WG1954578,,	7/31/2024 2:38 am
20	ABNICV.D	8270RVT.M	CQICV1,32,,ABNICV Lot#	WG1954578,,	7/31/2024 3:03 am
21	AP9ICV.D	8270RVT.M	CQICV2,32,,AP9ICV Lot#	WG1954578,,	7/31/2024 3:29 am
22	Tune2.D	8270RVT.M	Tune lot #10903	WG1954578,,	7/31/2024 3:54 am
23	ADPL9.D	8270RVT.M	IL2,32,,ADPL50 Lot# 107	WG1954578,,	7/31/2024 4:19 am
24	ADPL8.D	8270RVT.M	IL3,32,,ADPL25 Lot# 107	WG1954578,,	7/31/2024 4:45 am
25	ADPL7.D	8270RVT.M	IL4,32,,ADPL10 Lot# 107	WG1954578,,	7/31/2024 5:10 am
26	ADPL6.D	8270RVT.M	IL5,32,,ADPL5 Lot# 1079	WG1954578,,	7/31/2024 5:35 am
27	ADPL5.D	8270RVT.M	IL6,32,,ADPL2.5 Lot# 10	WG1954578,,	7/31/2024 6:01 am
28	ADPL4.D	8270RVT.M	IL7,32,,ADPL1 Lot# 1080	WG1954578,,	7/31/2024 6:26 am
29	ADPL3.D	8270RVT.M	IL8,32,,ADPL0.5 Lot# 10	WG1954578,,	7/31/2024 6:52 am
30	ADPL2.D	8270RVT.M	IL9,32,,ADPL0.2 Lot# 10	WG1954578,,	7/31/2024 7:17 am
31	ADPL1.D	8270RVT.M	IL10,32,,ADPL0.1 Lot# 1	WG1954578,,	7/31/2024 7:43 am
32	ADPICV.D	8270RVT.M	CQICV3,32,,ADPICV Lot#	WG1954578,,	7/31/2024 8:08 am
33	InstBlnk.D	8270RVT.M	Instrument Blank	WG1954578,,	7/31/2024 8:34 am

Printed: 08/08/24 Page: 1

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				

Dep.: GCMS
Inst: **SV107**
Date: **12/16/24**
Run: **Night Run**

Method
GC: **8270RVT**

Seq: **WG2008657**
ICAL: 21360

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	Initials
141	DEG1216n	wg-1,32,,Degdftpp Lot # 11171				ljg 12/17
142	ABN1216n	wg-3,32,,ABN RVT CCV Lot # 11043	**Passes Full List**			ljg 12/17
143	AP91216n	wg-4,32,,AP9 RVT CCV Lot # 10909				ljg 12/17
144	ADP1216n	wg-5,32,,ADP RVT CCV Lot # 10751				ljg 12/17
1	009547-1	WG2009547-1,32,,ASK				ljg 12/17
2	009547-2	WG2009547-2,32,,ASK	low IS			ljg 12/17
3	009547-3	WG2009547-3,32,,ASK	low IS			ljg 12/17
4	009399-1	WG2009399/400-1,32,,ASK				ljg 12/17
5	009399-2	WG2009399/400-2,32,,ASK				ljg 12/17
6	009399-3	WG2009399/400-3,32,,ASK				ljg 12/17
7	72280-01	L2472280-01,32,,RE,ASK				ljg 12/17
8	72280-02	L2472280-02,32,,RE,ASK	low IS			ljg 12/17
9	72280-03	L2472280-03,32,,RE,ASK	low IS			ljg 12/17
10	72280-04	L2472280-04,32,,RE,ASK	low IS			ljg 12/17
11	72280-05	L2472280-05,32,,RE,ASK	low IS			ljg 12/17
12	72280-06	L2472280-06,32,,RE,ASK				ljg 12/17
13	72280-07	L2472280-07,32,,RE,ASK	low IS			ljg 12/17
14	72280-08	L2472280-08,32,,RE,ASK				ljg 12/17
15	72226-05	L2472226-05,32,,RV,ASK				ljg 12/17
16	72226-06	L2472226-06,32,,RV,ASK				ljg 12/17
17	72273-01	L2472273-01,32,,RE,ASK	low IS			ljg 12/17
18	72497-14	L2472497-14d,32,5,RV,ASK				12/17jg
19	72122-06	L2472122-06d,32,20,RV,M,ASK				12/17jg
20	72586-01	L2472586-01,32,,ASK				12/17jg
21	009335-4	WG2009335-4,32,,ASK				12/17jg
22	009335-5	WG2009335-5,32,,ASK			**AK/sv-hy**	12/17jg
23	72280-05RV	L2472280-05,32,,RV,HNY				ljg 12/17
24	72280-07RV	L2472280-07,32,,RV,HNY			**hny**	ljg 12/17
					sv-gmr	

Dep.: GCMS
Inst: DAKOTA
Date: **12/16/24**
Run: Night Run

Method
GC: ABNRVT

Seq: **WG2009953**
ICAL: 21680

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	Initials
100	DEG1216na	wg-1,32,,Degdftpp Lot # 11171				ljg 12/17
96	ABN1216na	wg-3,32,,ABN RVT CCV Lot # 11	**Full List Including TCLP**			ljg 12/17
97	AP91216na	wg-4,32,,AP9 RVT CCV Lot # 11152				ljg 12/17
98	ADP1216na	wg-5,32,,ADP RVT CCV Lot # 11153				ljg 12/17
1	009789-1	WG2009789-1,32,,ASK				ljg 12/17
2	009789-2	WG2009789-2,32,,ASK				ljg 12/17
3	009789-3	WG2009789-3,32,,ASK				ljg 12/17
4	72058-13	L2472058-13,32,,RE,ASK				ljg 12/17
5	72058-02	L2472058-02,32,,ASK				ljg 12/17
6	72762-03	L2472762-03,32,,ASK				12/17jg
7	72792-02	L2472792-02,32,,ASK				12/17jg
8	72742-05	L2472742-05,32,,ASK				12/17jg
9	72742-06	L2472742-06,32,,ASK				12/17jg
10	73162-01	L2473162-01,32,,ASK				smz 12/18
11	73162-02	L2473162-02,32,,ASK				smz 12/18
12	73162-03	L2473162-03,32,,ASK				smz 12/18
13	73162-04	L2473162-04,32,,ASK				smz 12/18
14	73162-05	L2473162-05,32,,ASK				smz 12/18
15	009399-4	WG2009399-4,32,,ASK				smz 12/18
16	009399-5	WG2009399-5,32,,ASK			sv-ljg	smz 12/18
17	73162-06	L2473162-06,32,,ASK				smz 12/18
18	73162-07	L2473162-07,32,,ASK				smz 12/18
19	73162-08	L2473162-08,32,,ASK				smz 12/18
20	73162-09	L2473162-09,32,,ASK				smz 12/18
21	73162-10	L2473162-10,32,,ASK				smz 12/18
22	73251-01	L2473251-01,32,,ASK				smz 12/18
23	73251-02	L2473251-02,32,,ASK				smz 12/18
24	73251-03	L2473251-03,32,,ASK				smz 12/18
25	73084-08	L2473084-08,32,,ASK	RV, no IS		**ASK/sv-hy**	
26	72280-02	L2472280-02,32,,RV,HNY				ljg 12/17
27	72280-03	L2472280-03,32,,RV,HNY				ljg 12/17
28	72280-04	L2472280-04,32,,RV,HNY			**hny**	ljg 12/17
					sv-ljg	

ORGANIC ELN REPORT

Workgroup: WG2009399

Prep Method: EPA 3510C
Solvent Type: DCM — **Lot #:** EJ507
Surrogate Type: ABN — **Lot #:** 11164at,05/20/2025,4c,7,1
Spike Type: ABN — **Lot #:** 11106ae-042325, 11092af,03/3
Spike Verify by: RET
Lims Spikelot: 8270-RVT

Additional Reagents/Stds

H2SO4	A120224
Na2SO4	23K2961078
NaOH	10NNaOH120224

Conc.Method: Buchi
Solvent Type: DCM
Lot #: ej507

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
L2472742-05 SAMP	12/15/24 23:44	Henry Otoo	100	<2, >12	.1		12/16/24 02:33	Shaylee Amidon	1	K
L2472742-06 SAMP	12/15/24 23:44	Henry Otoo	100	<2, >12	.1		12/16/24 02:33	Shaylee Amidon	1	K
L2473162-01 SAMP	12/15/24 11:38	Ryan Trenholm	100	<2, >12	.1		12/15/24 17:14	Victor Kono	1	K
L2473162-02 SAMP	12/15/24 11:38	Ryan Trenholm	100	<2, >12	.1		12/15/24 17:14	Victor Kono	1	K
L2473162-03 SAMP	12/15/24 11:38	Ryan Trenholm	100	<2, >12	.1		12/15/24 17:14	Victor Kono	1	K
L2473162-04 SAMP	12/15/24 11:38	Ryan Trenholm	100	<2, >12	.1		12/15/24 17:14	Victor Kono	1	K
L2473162-05 SAMP	12/15/24 11:38	Ryan Trenholm	100	<2, >12	.1		12/15/24 17:14	Victor Kono	1	K

Reported: 19-DEC-24 03:10 PM

ORGANIC ELN REPORT

Workgroup: WG2009399

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
L2473162-06 SAMP	12/15/24 11:38	Ryan Trenholm	100	<2, >12	.1		12/15/24 17:14	Victor Kono	1	K
L2473162-07 SAMP	12/15/24 11:38	Ryan Trenholm	100	<2, >12	.1		12/15/24 17:14	Victor Kono	1	K
L2473162-08 SAMP	12/15/24 11:38	Ryan Trenholm	100	<2, >12	.1		12/15/24 17:14	Victor Kono	1	K
L2473162-09 SAMP	12/15/24 11:38	Ryan Trenholm	100	<2, >12	.1		12/15/24 17:14	Victor Kono	1	K
L2473162-10 SAMP	12/15/24 11:38	Ryan Trenholm	100	<2, >12	.1		12/15/24 17:14	Victor Kono	1	K
WG2009399-1 BLANK	12/15/24 11:38	Ryan Trenholm	100	<2, >12	.1		12/15/24 17:14	Victor Kono	1	K
	WG2009399,WG2009400,WG2009401									
WG2009399-2 LCS	12/15/24 11:38	Ryan Trenholm	100	<2, >12	.1	.1	12/15/24 17:14	Victor Kono	1	K
WG2009399-3 LCSD	12/15/24 11:38	Ryan Trenholm	100	<2, >12	.1	.1	12/15/24 17:14	Victor Kono	1	K
WG2009399-4 MS	12/15/24 11:38	Ryan Trenholm	100	<2, >12	.1	.1	12/15/24 17:14	Victor Kono	1	K
WG2009399-5 MSD	12/15/24 11:38	Ryan Trenholm	100	<2, >12	.1	.1	12/15/24 17:14	Victor Kono	1	K

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: L2473162
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-11S (L2473162-01)	44	30	85	67	63	81	0
MW-11D (L2473162-02)	48	31	89	64	66	113	0
MW-1SR (L2473162-03)	48	31	89	68	86	88	0
MW-1DR2 (L2473162-04)	49	34	99	89	75	93	0
MP-1 (L2473162-05)	46	29	88	66	66	76	0
MP-1D (L2473162-06)	42	27	77	53	62	56	0
DUP_121224 (L2473162-07)	45	31	96	66	71	85	0
MW-13S (L2473162-08)	40	29	84	67	62	79	0
MW-13D (L2473162-09)	44	28	85	62	65	75	0
EB_121224 (L2473162-10)	40	25	85	65	57	81	0
WG2009401-1BLANK	53	33	94	78	94	95	0
WG2009401-2LCS	52	36	87	67	96	78	0
WG2009401-3LCSD	59	41	102	75	109	89	0
MP-1DMS	58	39	110	74	109	87	0
MP-1DMSD	60	42	99	91	113	90	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG2009401-2 **Analysis Date** : 12/16/24 08:27	**File ID**	: 009401-2
LCSD Sample ID	: WG2009401-3 **Analysis Date** : 12/16/24 08:43	**File ID**	: 009401-3

	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	13	65	20	14	72	10	40-140	40
2-Chloronaphthalene	20	13	65	20	14	71	9	40-140	40
Fluoranthene	20	15	77	20	17	86	11	40-140	40
Hexachlorobutadiene	20	11	57	20	12	62	8	40-140	40
Naphthalene	20	12	58	20	12	62	7	40-140	40
Benzo(a)anthracene	20	14	71	20	16	80	12	40-140	40
Benzo(a)pyrene	20	18	88	20	20	98	11	40-140	40
Benzo(b)fluoranthene	20	18	89	20	20	99	11	40-140	40
Benzo(k)fluoranthene	20	17	83	20	19	93	11	40-140	40
Chrysene	20	15	77	20	17	85	10	40-140	40
Acenaphthylene	20	14	69	20	15	75	8	40-140	40
Anthracene	20	15	75	20	17	84	11	40-140	40
Benzo(ghi)perylene	20	16	83	20	18	93	11	40-140	40
Fluorene	20	14	71	20	16	79	11	40-140	40
Phenanthrene	20	14	71	20	16	79	11	40-140	40
Dibenzo(a,h)anthracene	20	17	86	20	19	97	12	40-140	40
Indeno(1,2,3-cd)pyrene	20	18	93	20	21	103	10	40-140	40
Pyrene	20	15	75	20	17	85	13	40-140	40
2-Methylnaphthalene	20	13	64	20	14	70	9	40-140	40
Pentachlorophenol	20	19	97	20	24	118	20	40-140	40
Hexachlorobenzene	20	14	68	20	15	77	12	40-140	40
Hexachloroethane	20	12	58	20	13	66	13	40-140	40
Bis(2-chloroethyl)ether	20	12	62	20	14	72	15	40-140	40

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2473162-06	**Analysis Date**	: 12/16/24 10:25
Matrix Spike	: WG2009401-4	**MS Analysis Date**	: 12/16/24 10:41
Matrix Spike Dup	: WG2009401-5	**MSD Analysis Date**	: 12/16/24 10:58

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Acenaphthene	ND	20	14	70	20	15	75	7	40-140	40
2-Chloronaphthalene	ND	20	14	70	20	18	90	25	40-140	40
Fluoranthene	ND	20	17	85	20	18	90	6	40-140	40
Hexachlorobutadiene	ND	20	11	55	20	13	65	17	40-140	40
Naphthalene	ND	20	12	60	20	13	65	8	40-140	40
Benzo(a)anthracene	ND	20	16	80	20	16	80	0	40-140	40
Benzo(a)pyrene	ND	20	20	100	20	19	95	5	40-140	40
Benzo(b)fluoranthene	ND	20	20	100	20	20	100	0	40-140	40
Benzo(k)fluoranthene	ND	20	18	90	20	19	95	5	40-140	40
Chrysene	ND	20	17	85	20	17	85	0	40-140	40
Acenaphthylene	ND	20	15	75	20	18	90	18	40-140	40
Anthracene	ND	20	17	85	20	17	85	0	40-140	40
Benzo(ghi)perylene	ND	20	19	95	20	19	95	0	40-140	40
Fluorene	ND	20	16	80	20	16	80	0	40-140	40
Phenanthrene	ND	20	16	80	20	16	80	0	40-140	40
Dibenzo(a,h)anthracene	ND	20	19	95	20	20	100	5	40-140	40
Indeno(1,2,3-cd)pyrene	ND	20	21	110	20	21	110	0	40-140	40
Pyrene	ND	20	17	85	20	17	85	0	40-140	40
2-Methylnaphthalene	ND	20	14	70	20	18	90	25	40-140	40
Pentachlorophenol	ND	20	22	110	20	24	120	9	40-140	40
Hexachlorobenzene	ND	20	15	75	20	15	75	0	40-140	40
Hexachloroethane	ND	20	13	65	20	13	65	0	40-140	40

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2473162-06	**Analysis Date**	: 12/16/24 10:25
Matrix Spike	: WG2009401-4	**MS Analysis Date**	: 12/16/24 10:41
Matrix Spike Dup	: WG2009401-5	**MSD Analysis Date**	: 12/16/24 10:58

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (ug/l)**	**Spike Added (ug/l)**	**Spike Conc. (ug/l)**	**%R**	**Spike Added (ug/l)**	**Spike Conc. (ug/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Bis(2-chloroethyl)ether	ND	20	14	70	20	14	70	0	40-140	40

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG2009401-1	**Lab File ID**	: 009401-1
Instrument ID	: SV118	**Extraction Date**	: 12/15/24
Matrix	: WATER	**Analysis Date**	: 12/16/24 08:10
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG2009401-2LCS	WG2009401-2	12/16/24 08:27
WG2009401-3LCSD	WG2009401-3	12/16/24 08:43
MW-11S	L2473162-01	12/16/24 09:00
MW-11D	L2473162-02	12/16/24 09:17
MW-1SR	L2473162-03	12/16/24 09:34
MW-1DR2	L2473162-04	12/16/24 09:51
MP-1	L2473162-05	12/16/24 10:08
MP-1D	L2473162-06	12/16/24 10:25
MP-1DMS	WG2009401-4	12/16/24 10:41
MP-1DMSD	WG2009401-5	12/16/24 10:58
DUP_121224	L2473162-07	12/16/24 11:15
MW-13S	L2473162-08	12/16/24 11:32
MW-13D	L2473162-09	12/16/24 11:49
EB_121224	L2473162-10	12/16/24 12:06

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV118	**Analysis Date**	: 10/25/24 15:53
Tune Standard	: R1893981-11	**Tune File ID**	: TUNE_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	46.8
68	Less than 2.0% of mass 69	0.5 (1.4)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	46.9
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	6.4
275	10.0 - 60.0% of Base Peak	27.3
365	Greater than 1.0% of mass 198	3.5
441	Present, but less than 24% of mass 442	16.3
442	Base Peak, or >50% of mass 198	97.8
443	15.0 - 24.0% of mass 442	18 (18.4)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	R1893981-2	L10	10/25/24 16:43
L9	R1893981-10	L9	10/25/24 17:01
L8	R1893981-9	L8	10/25/24 17:19
L7	R1893981-8	L7	10/25/24 17:37
L6	R1893981-7	L6	10/25/24 17:55
L5	R1893981-6	L5	10/25/24 18:12
L4	R1893981-5	L4	10/25/24 18:29
L3	R1893981-4	L3	10/25/24 18:46
L2	R1893981-3	L2	10/25/24 19:03
L1	R1893981-1	L1	10/25/24 19:21
ICV Quant Report	R1893981-12	ICV	10/25/24 19:38

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV118	**Analysis Date**	: 12/16/24 06:59
Tune Standard	: WG2009609-1	**Tune File ID**	: deg1216_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	42.4
68	Less than 2.0% of mass 69	0.3 (.9)1
69		100
70	Less than 2.0% of mass 69	0.1 (.2)1
127	10.0 - 80.0% of Base Peak	49
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	27.6
365	Greater than 1.0% of mass 198	3.5
441	Present, but less than 24% of mass 442	17.3
442	Base Peak, or >50% of mass 198	95.9
443	15.0 - 24.0% of mass 442	18.5 (19.3)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
WG2009609-4TFACTOR-B	WG2009609-4	DEG1216	12/16/24 06:59
WG2009609-5TFACTOR-P	WG2009609-5	DEG1216	12/16/24 06:59
WG2009609-3CCAL	WG2009609-3	CCV1216	12/16/24 07:27
WG2009401-1BLANK	WG2009401-1	009401-1	12/16/24 08:10
WG2009401-2LCS	WG2009401-2	009401-2	12/16/24 08:27
WG2009401-3LCSD	WG2009401-3	009401-3	12/16/24 08:43
MW-11S	L2473162-01	73162-01	12/16/24 09:00
MW-11D	L2473162-02	73162-02	12/16/24 09:17
MW-1SR	L2473162-03	73162-03	12/16/24 09:34
MW-1DR2	L2473162-04	73162-04	12/16/24 09:51
MP-1	L2473162-05	73162-05	12/16/24 10:08
MP-1D	L2473162-06	73162-06	12/16/24 10:25
WG2009401-4MS	WG2009401-4	009401-4	12/16/24 10:41
WG2009401-5MSD	WG2009401-5	009401-5	12/16/24 10:58
DUP_121224	L2473162-07	73162-07	12/16/24 11:15
MW-13S	L2473162-08	73162-08	12/16/24 11:32
MW-13D	L2473162-09	73162-09	12/16/24 11:49
EB_121224	L2473162-10	73162-10	12/16/24 12:06

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV118	**Analysis Date**	: 12/16/24 07:27:00
Sample No	: WG2009609-3	**Lab File ID**	: CCV1216

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG2009609-3	337319	2.22	1155411	2.89	643247	3.88
Upper Limit	674638	2.72	2310822	3.39	1286494	4.38
Lower Limit	168660	1.72	577706	2.39	321624	3.38
Sample ID						
WG2009401-1 BLANK	276499	2.22	1155399	2.89	636469	3.88
WG2009401-2 LCS	273652	2.22	1207019	2.89	678405	3.88
WG2009401-3 LCSD	273517	2.22	1219242	2.89	673505	3.88
MW-11S	289283	2.23	1186630	2.89	660619	3.88
MW-11D	257261	2.23	893461	2.89	472600	3.88
MW-1SR	289209	2.22	1205343	2.89	672722	3.88
MW-1DR2	291526	2.23	1076832	2.89	685244	3.88
MP-1	310890	2.23	1293513	2.89	752401	3.88
MP-1D	266368	2.23	946746	2.89	533105	3.88
MP-1D MS	242192	2.22	1116019	2.89	621841	3.88
MP-1D MSD	226064	2.23	846961	2.89	562994	3.88
DUP_121224	249481	2.22	1077572	2.89	630196	3.88
MW-13S	253978	2.22	1082357	2.89	631881	3.88
MW-13D	211892	2.22	955495	2.89	560129	3.88
EB_121224	229288	2.22	972637	2.89	569270	3.88

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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV118	**Analysis Date**	: 12/16/24 07:27:00
Sample No	: WG2009609-3	**Lab File ID**	: CCV1216

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG2009609-3	1305613	4.72	1642453	6.29	1677056	7.50
Upper Limit	2611226	5.22	3284906	6.79	3354112	8.00
Lower Limit	652807	4.22	821227	5.79	838528	7.00
Sample ID						
WG2009401-1 BLANK	1275053	4.72	1299866	6.26	1300526	7.47
WG2009401-2 LCS	1374016	4.72	1287944	6.26	1287094	7.47
WG2009401-3 LCSD	1358958	4.72	1312435	6.26	1344446	7.47
MW-11S	1315982	4.72	1339296	6.26	1318055	7.46
MW-11D	929204	4.72	1216322	6.26	1209255	7.46
MW-1SR	1325522	4.72	1315327	6.26	1278844	7.46
MW-1DR2	1343488	4.72	1325288	6.26	1285643	7.46
MP-1	1527034	4.72	1536208	6.26	1520650	7.46
MP-1D	1108424	4.72	1071719	6.26	1433813	7.46
MP-1D MS	1231627	4.72	1184886	6.26	1215401	7.46
MP-1D MSD	1172889	4.72	1129837	6.26	1113478	7.47
DUP_121224	1335955	4.72	1446980	6.26	1415062	7.46
MW-13S	1316344	4.72	1421882	6.26	1392676	7.46
MW-13D	1190371	4.72	1319447	6.26	1296595	7.46
EB_121224	1210902	4.72	1361075	6.26	1341761	7.46

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
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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
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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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-01	**Date Collected**	: 12/12/24 08:25
Client ID	: MW-11S	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/16/24 09:00
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 73162-01	**Analyst**	: DV
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	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-01	**Date Collected**	: 12/12/24 08:25
Client ID	: MW-11S	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/16/24 09:00
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 73162-01	**Analyst**	: DV
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-02	**Date Collected**	: 12/12/24 08:42
Client ID	: MW-11D	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/16/24 09:17
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 73162-02	**Analyst**	: DV
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	0.14	0.10	0.02	
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	1.9	0.10	0.02	
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	0.04	0.10	0.03	J
85-01-8	Phenanthrene	0.06	0.10	0.04	J
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	0.13	0.10	0.03	
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-02	**Date Collected**	: 12/12/24 08:42
Client ID	: MW-11D	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/16/24 09:17
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 73162-02	**Analyst**	: DV
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-03	**Date Collected**	: 12/12/24 09:50
Client ID	: MW-1SR	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/16/24 09:34
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 73162-03	**Analyst**	: DV
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	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-03	**Date Collected**	: 12/12/24 09:50
Client ID	: MW-1SR	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/16/24 09:34
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 73162-03	**Analyst**	: DV
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-04	**Date Collected**	: 12/12/24 10:10
Client ID	: MW-1DR2	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/16/24 09:51
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 73162-04	**Analyst**	: DV
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	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-04	**Date Collected**	: 12/12/24 10:10
Client ID	: MW-1DR2	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/16/24 09:51
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 73162-04	**Analyst**	: DV
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-05	**Date Collected**	: 12/12/24 11:40
Client ID	: MP-1	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/16/24 10:08
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 73162-05	**Analyst**	: DV
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	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-05	**Date Collected**	: 12/12/24 11:40
Client ID	: MP-1	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/16/24 10:08
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 73162-05	**Analyst**	: DV
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-06	**Date Collected**	: 12/12/24 12:05
Client ID	: MP-1D	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/16/24 10:25
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 73162-06	**Analyst**	: DV
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	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-06	**Date Collected**	: 12/12/24 12:05
Client ID	: MP-1D	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/16/24 10:25
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 73162-06	**Analyst**	: DV
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-07	**Date Collected**	: 12/12/24 12:00
Client ID	: DUP_121224	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/16/24 11:15
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 73162-07	**Analyst**	: DV
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	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-07	**Date Collected**	: 12/12/24 12:00
Client ID	: DUP_121224	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/16/24 11:15
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 73162-07	**Analyst**	: DV
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-08	**Date Collected**	: 12/12/24 14:00
Client ID	: MW-13S	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/16/24 11:32
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 73162-08	**Analyst**	: DV
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	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-08	**Date Collected**	: 12/12/24 14:00
Client ID	: MW-13S	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/16/24 11:32
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 73162-08	**Analyst**	: DV
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-09	**Date Collected**	: 12/12/24 14:05
Client ID	: MW-13D	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/16/24 11:49
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 73162-09	**Analyst**	: DV
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	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-09	**Date Collected**	: 12/12/24 14:05
Client ID	: MW-13D	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/16/24 11:49
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 73162-09	**Analyst**	: DV
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-10	**Date Collected**	: 12/12/24 13:30
Client ID	: EB_121224	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/16/24 12:06
Sample Matrix	: Equipment Blank	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 73162-10	**Analyst**	: DV
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	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-10	**Date Collected**	: 12/12/24 13:30
Client ID	: EB_121224	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/16/24 12:06
Sample Matrix	: Equipment Blank	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 73162-10	**Analyst**	: DV
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2009401-1	**Date Collected**	: NA
Client ID	: WG2009401-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/16/24 08:10
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 009401-1	**Analyst**	: DV
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	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2009401-1	**Date Collected**	: NA
Client ID	: WG2009401-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/16/24 08:10
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 009401-1	**Analyst**	: DV
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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 73162-01.D
Acq On : 16 Dec 2024 09:00 am
Operator : SV118:dv
Sample : L2473162-01,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 17 13:24:22 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\241216RVT\ccv1216.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.225	152	289283	4000.000	ng/ml	0.00
Standard Area 1 = 337319			Recovery = 85.76%			
8) Naphthalene-d8	2.893	136	1186630	4000.000	ng/ml	0.00
Standard Area 1 = 1155411			Recovery = 102.70%			
17) Acenaphthene-d10	3.875	164	660619	4000.000	ng/ml	0.00
Standard Area 1 = 643247			Recovery = 102.70%			
22) Phenanthrene-d10	4.715	188	1315982	4000.000	ng/ml	# 0.00
Standard Area 1 = 1305613			Recovery = 100.79%			
31) Chrysene-d12	6.256	240	1339296	4000.000	ng/ml	-0.03
Standard Area 1 = 1642453			Recovery = 81.54%			
36) Perylene-d12	7.460	264	1318055	4000.000	ng/ml	-0.04
Standard Area 1 = 1677056			Recovery = 78.59%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.645	112	71990	880.190	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 44.01%			
3) Phenol-d6	2.040	99	60058	597.577	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 29.88%			
7) Nitrobenzene-d5	2.509	82	55174	850.324	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 85.03%			
13) 2-Fluorobiphenyl	3.494	172	152505	668.405	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 66.84%			
21) 2,4,6-Tribromophenol	4.320	330	38550	1266.395	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 63.32%			
30) 4-Terphenyl-d14	5.628	244	219446	814.999	ng/ml	-0.01
Spiked Amount 1000.000	Range 30 - 130		Recovery = 81.50%			

Target Compounds				Qvalue
4) Bis(2-chloroethyl)ether	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	
14) 2-Chloronaphthalene	0.000	0	N.D. d	
16) Acenaphthylene	0.000	0	N.D. d	
18) Acenaphthene	0.000	0	N.D. d	
20) Fluorene	0.000	0	N.D. d	
24) Hexachlorobenzene	0.000	0	N.D. d	

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 73162-01.D
Acq On : 16 Dec 2024 09:00 am
Operator : SV118:dv
Sample : L2473162-01,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 17 13:24:22 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\241216RVT\ccv1216.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

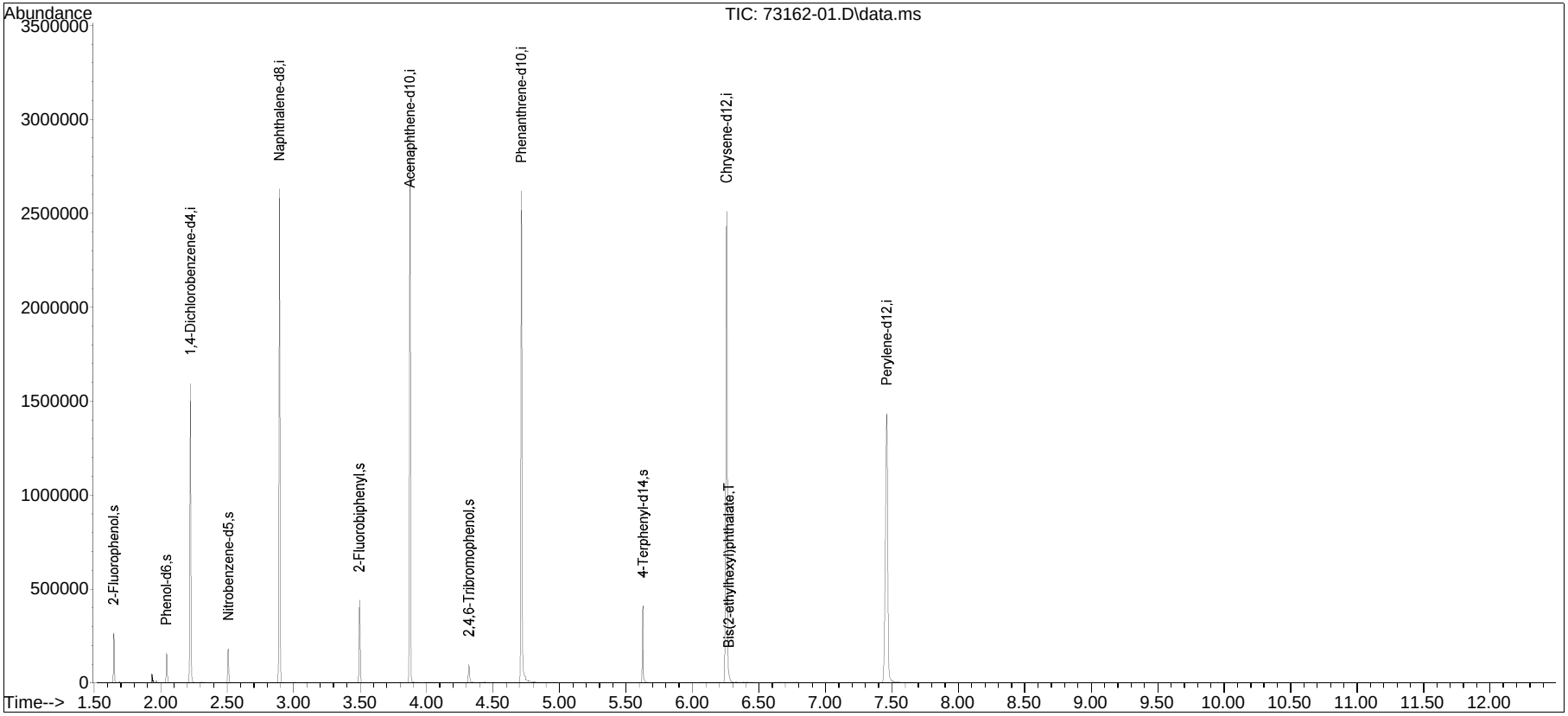
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 73162-01.D
Acq On : 16 Dec 2024 09:00 am
Operator : SV118:dv
Sample : L2473162-01,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 17 13:24:22 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv1216.D•



Manual Integration Report

Data Path	: I:\8270SIM\SV118\241216RVTQ	Method	: SIM-RVT_241025sv118.M
Data File	: 73162-01.D	Operator	: SV118:dv
Date Inj'd	: 12/16/2024 9:00 am	Instrument	: SV118
Sample	: L2473162-01,32,,kmh	Quant Date	: 12/16/2024 9:13 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 73162-02.D
Acq On : 16 Dec 2024 09:17 am
Operator : SV118:dv
Sample : L2473162-02,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 17 13:25:32 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\241216RVT\ccv1216.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.225	152	257261	4000.000	ng/ml	0.00
Standard Area 1 = 337319			Recovery = 76.27%			
8) Naphthalene-d8	2.893	136	893461	4000.000	ng/ml	0.00
Standard Area 1 = 1155411			Recovery = 77.33%			
17) Acenaphthene-d10	3.875	164	472600	4000.000	ng/ml	0.00
Standard Area 1 = 643247			Recovery = 73.47%			
22) Phenanthrene-d10	4.715	188	929204	4000.000	ng/ml	# 0.00
Standard Area 1 = 1305613			Recovery = 71.17%			
31) Chrysene-d12	6.258	240	1216322	4000.000	ng/ml	-0.03
Standard Area 1 = 1642453			Recovery = 74.06%			
36) Perylene-d12	7.462	264	1209255	4000.000	ng/ml	-0.04
Standard Area 1 = 1677056			Recovery = 72.11%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.645	112	70037	962.899	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 48.14%			
3) Phenol-d6	2.044	99	56213	628.940	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 31.45%			
7) Nitrobenzene-d5	2.509	82	51512	892.703	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 89.27%			
13) 2-Fluorobiphenyl	3.494	172	110545	643.479	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 64.35%			
21) 2,4,6-Tribromophenol	4.320	330	28690	1317.446	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 65.87%			
30) 4-Terphenyl-d14	5.628	244	214094	1126.089	ng/ml	-0.01
Spiked Amount 1000.000	Range 30 - 130		Recovery = 112.61%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	2.905	128	45009	191.370	ng/ml	100
10) Hexachlorobutadiene	0.000		0	N.D.	d	
11) 2-Methylnaphthalene	3.286	142	1968	13.064	ng/ml	99
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	3.892	153	2199	14.233	ng/ml	99
20) Fluorene	4.182	166	726M6	4.411	ng/ml	
24) Hexachlorobenzene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 73162-02.D
Acq On : 16 Dec 2024 09:17 am
Operator : SV118:dv
Sample : L2473162-02,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 17 13:25:32 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\241216RVT\ccv1216.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0		N.D.	d
26) Phenanthrene	4.727	178	1430M6	5.669	ng/ml	
27) Anthracene	0.000		0		N.D.	d
28) Fluoranthene	0.000		0		N.D.	d
29) Pyrene	0.000		0		N.D.	d
32) Benzo[a]anthracene	0.000		0		N.D.	d
34) Chrysene	0.000		0		N.D.	d
37) Benzo[b]fluoranthene	0.000		0		N.D.	d
38) Benzo[k]fluoranthene	0.000		0		N.D.	d
39) Benzo[a]pyrene	0.000		0		N.D.	d
40) Indeno[1,2,3-cd]pyrene	0.000		0		N.D.	d
41) Dibenzo[a,h]anthracene	0.000		0		N.D.	d
42) Benzo[g,h,i]perylene	0.000		0		N.D.	d

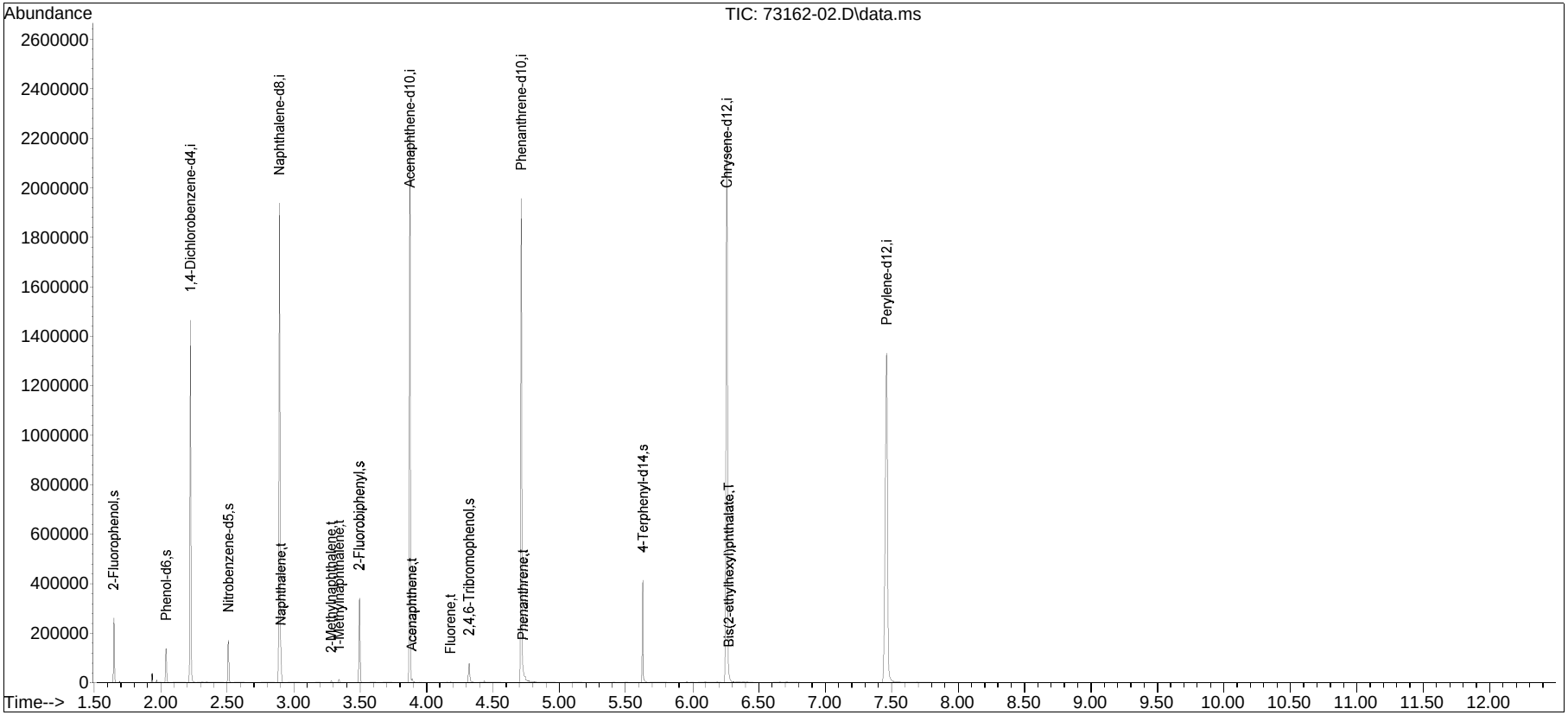
(#) = qualifier out of range (m) = manual integration (+) = signals summed

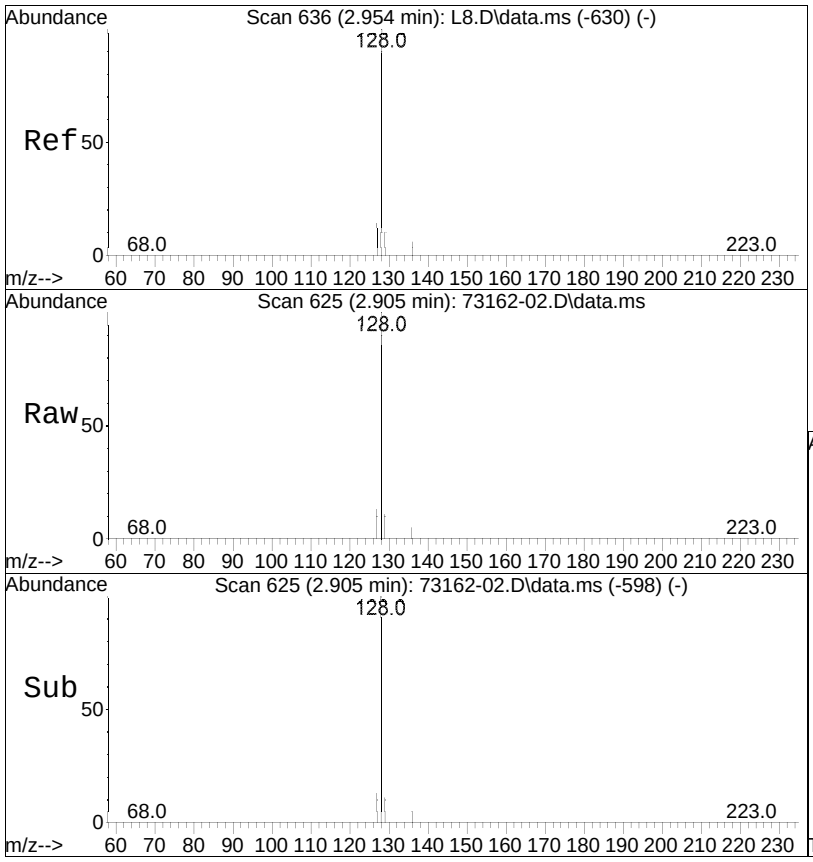
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 73162-02.D
Acq On : 16 Dec 2024 09:17 am
Operator : SV118:dv
Sample : L2473162-02,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 17 13:25:32 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv1216.D•

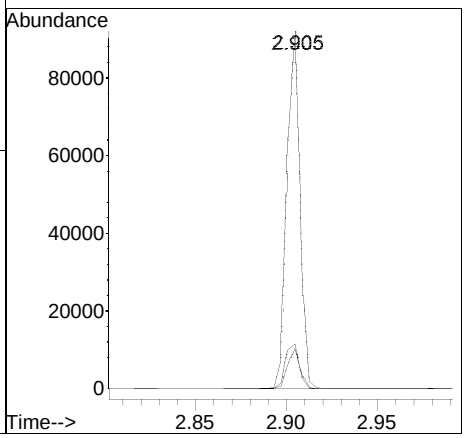


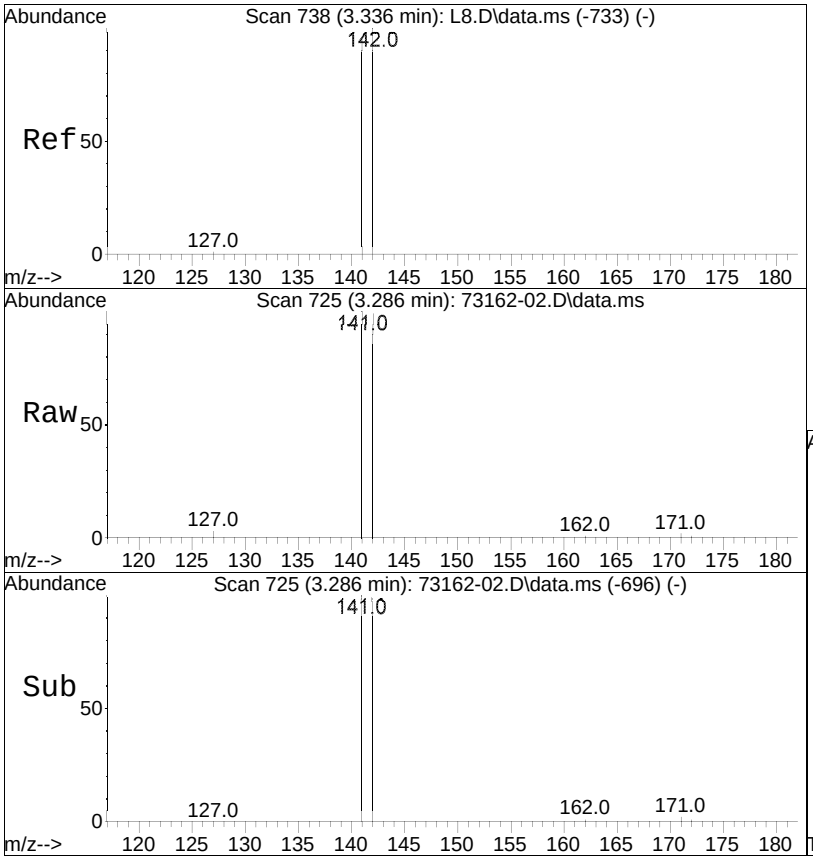


#9
Naphthalene
Concen: 191.37 ng/ml
RT: 2.905 min Scan# 625
Delta R.T. 0.004 min
Lab File: 73162-02.D
Acq: 16 Dec 2024 09:17 am

Tgt Ion:128 Resp: 45009

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	13.5	10.7	16.1

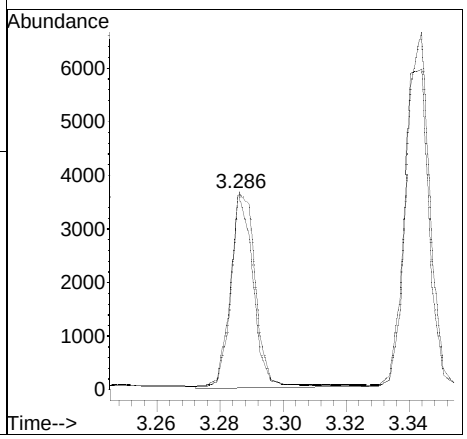


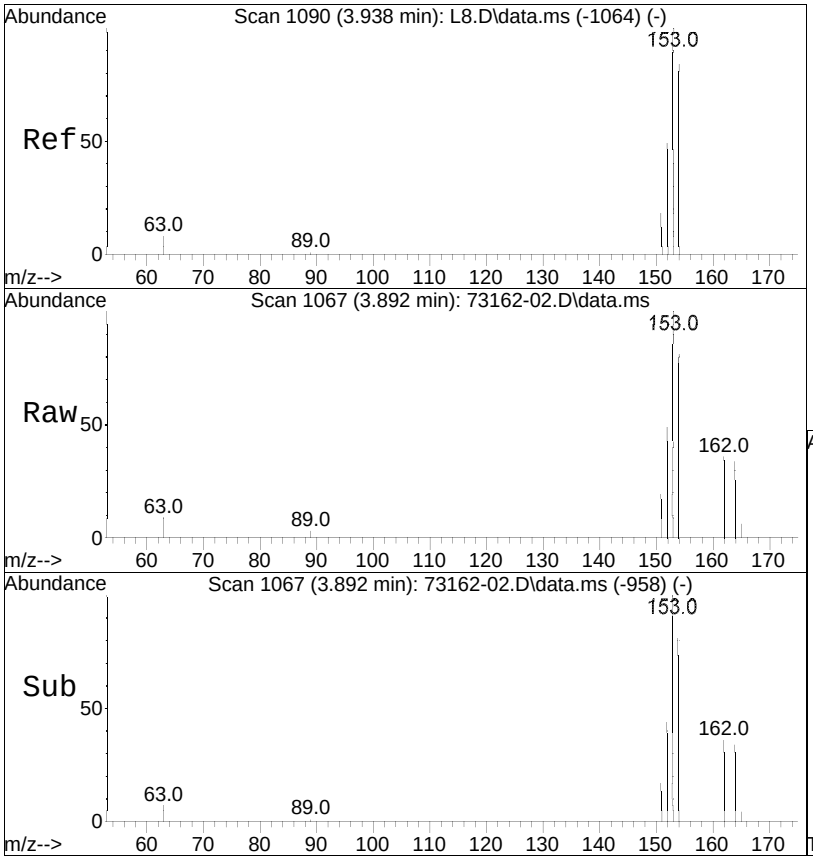


#11
2-Methylnaphthalene
Concen: 13.06 ng/ml
RT: 3.286 min Scan# 725
Delta R.T. -0.000 min
Lab File: 73162-02.D
Acq: 16 Dec 2024 09:17 am

Tgt Ion:142 Resp: 1968

Ion	Ratio	Lower	Upper
142	100		
141	90.3	71.8	107.8

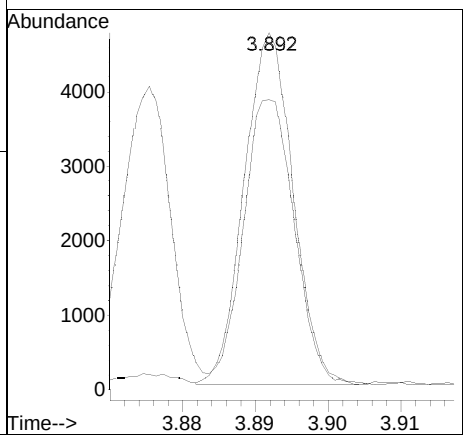


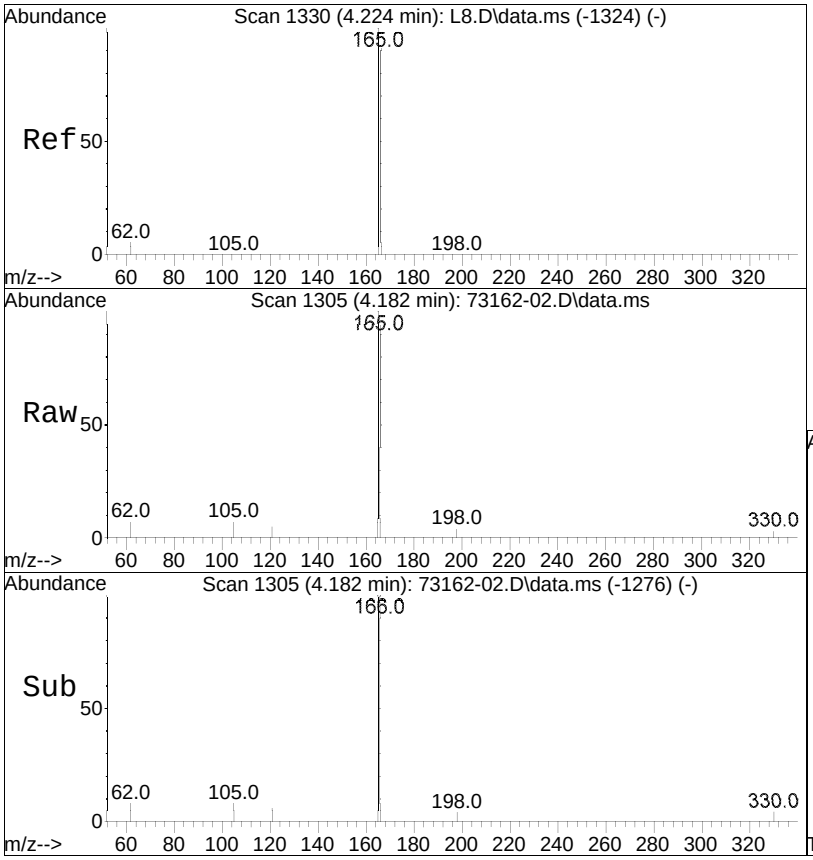


#18
Acenaphthene
Concen: 14.23 ng/ml
RT: 3.892 min Scan# 1067
Delta R.T. -0.001 min
Lab File: 73162-02.D
Acq: 16 Dec 2024 09:17 am

Tgt Ion:153 Resp: 2199

Ion	Ratio	Lower	Upper
153	100		
154	84.4	68.2	102.4

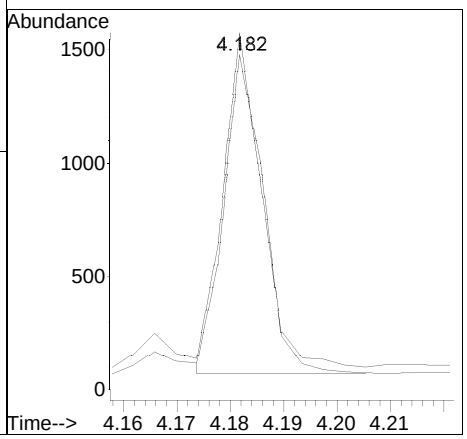


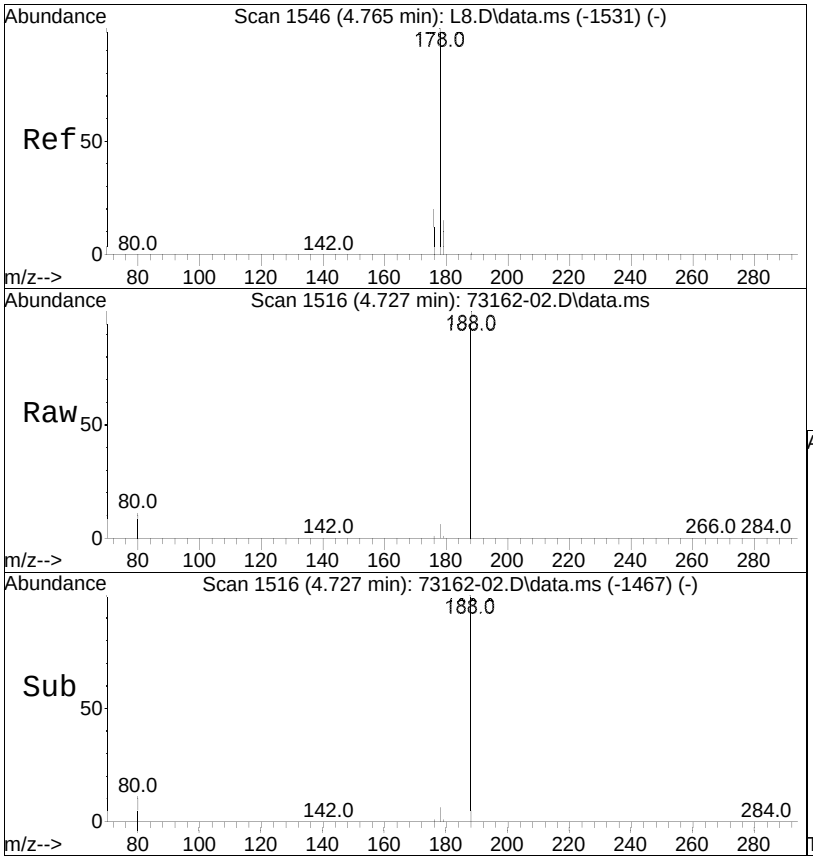


#20
Fluorene
Concen: 4.41 ng/ml M6
RT: 4.182 min Scan# 1305
Delta R.T. -0.001 min
Lab File: 73162-02.D
Acq: 16 Dec 2024 09:17 am

Tgt Ion:166 Resp: 726

Ion	Ratio	Lower	Upper
166	100		
165	99.4	80.5	120.7

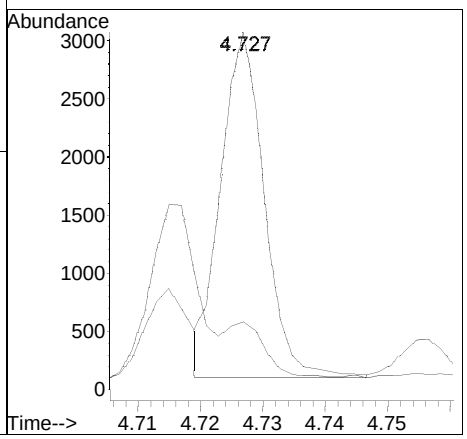




#26
Phenanthrene
Concen: 5.67 ng/ml M6
RT: 4.727 min Scan# 1516
Delta R.T. -0.003 min
Lab File: 73162-02.D
Acq: 16 Dec 2024 09:17 am

Tgt Ion:178 Resp: 1430

Ion	Ratio	Lower	Upper
178	100		
179	13.0	12.5	18.7

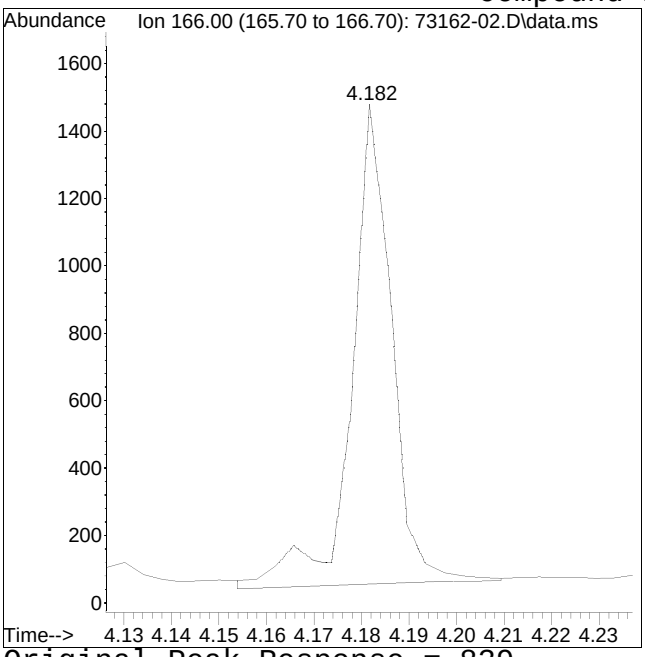


Manual Integration Report

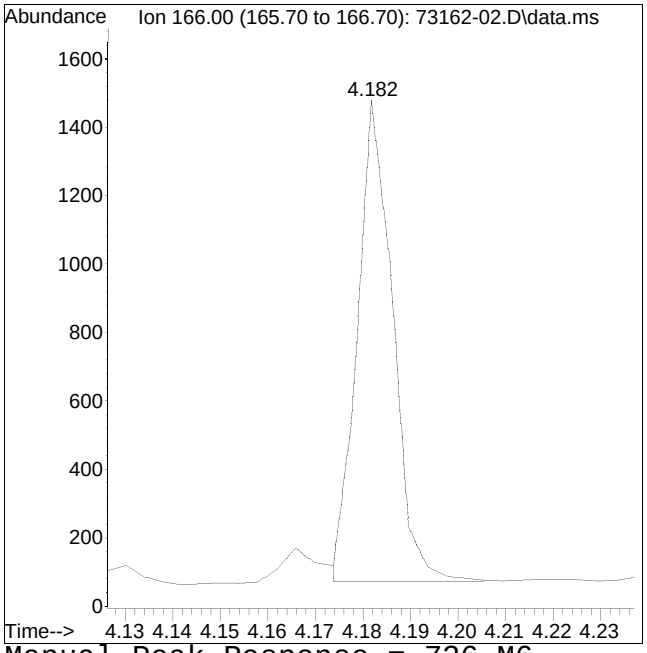
Data Path : I:\8270SIM\SV118\241216RVTQ
Data File : 73162-02.D
Date Inj'd : 12/16/2024 9:17 am
Sample : L2473162-02,32,,kmh

Method : SIM-RVT_241025sv118.M
Operator : SV118:dv
Instrument : SV118
Quant Date : 12/16/2024 9:30 am

Compound #20: Fluorene



Original Peak Response = 839



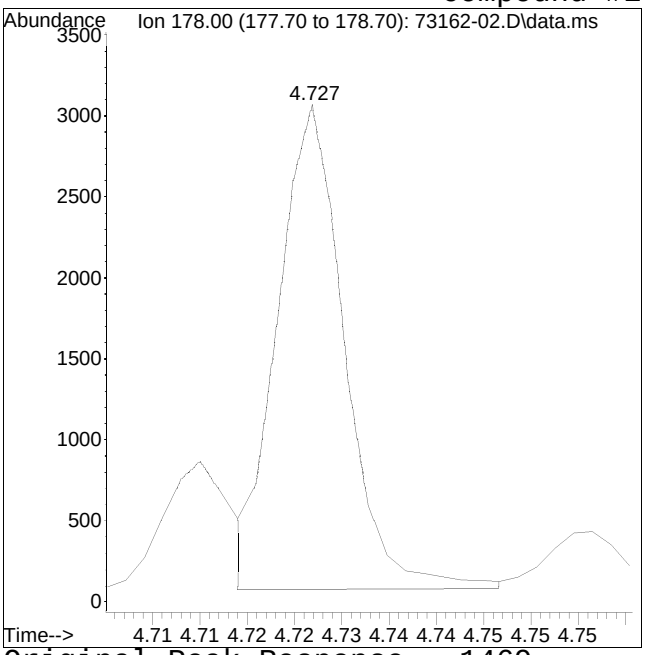
Manual Peak Response = 726 M6

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

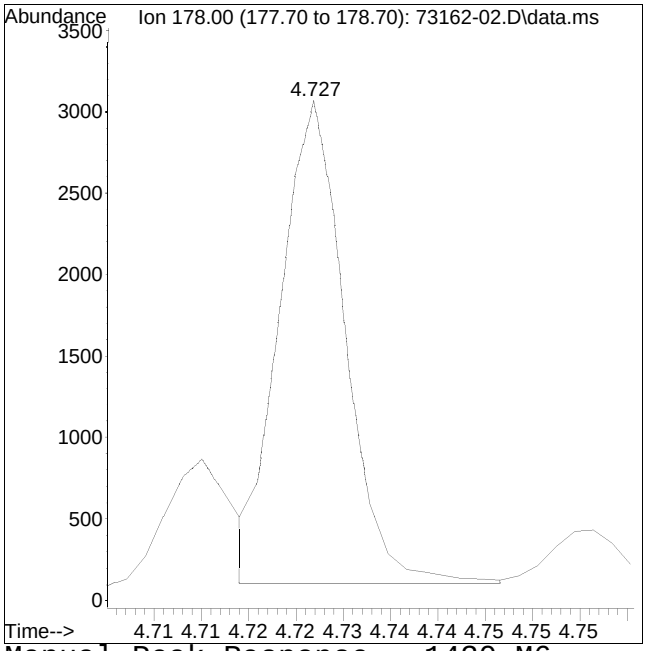
Manual Integration Report

Data Path : I:\8270SIM\SV118\241216RVTQMethod : SIM-RVT_241025sv118.M
Data File : 73162-02.D Operator : SV118:dv
Date Inj'd : 12/16/2024 9:17 am Instrument : SV118
Sample : L2473162-02,32,,kmh Quant Date : 12/16/2024 9:30 am

Compound #26: Phenanthrene



Original Peak Response = 1469



Manual Peak Response = 1430 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 73162-03.D
Acq On : 16 Dec 2024 09:34 am
Operator : SV118:dv
Sample : L2473162-03,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 17 13:26:53 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\241216RVT\ccv1216.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.224	152	289209	4000.000	ng/ml	0.00
Standard Area 1 = 337319			Recovery = 85.74%			
8) Naphthalene-d8	2.893	136	1205343	4000.000	ng/ml	0.00
Standard Area 1 = 1155411			Recovery = 104.32%			
17) Acenaphthene-d10	3.875	164	672722	4000.000	ng/ml	0.00
Standard Area 1 = 643247			Recovery = 104.58%			
22) Phenanthrene-d10	4.715	188	1325522	4000.000	ng/ml	# 0.00
Standard Area 1 = 1305613			Recovery = 101.52%			
31) Chrysene-d12	6.258	240	1315327	4000.000	ng/ml	-0.03
Standard Area 1 = 1642453			Recovery = 80.08%			
36) Perylene-d12	7.462	264	1278844	4000.000	ng/ml	-0.04
Standard Area 1 = 1677056			Recovery = 76.26%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.647	112	78218	956.581	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 47.83%			
3) Phenol-d6	2.043	99	61750	614.570	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 30.73%			
7) Nitrobenzene-d5	2.509	82	57960	893.489	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 89.35%			
13) 2-Fluorobiphenyl	3.494	172	157996	681.720	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 68.17%			
21) 2,4,6-Tribromophenol	4.321	330	53035	1710.893	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 85.54%			
30) 4-Terphenyl-d14	5.629	244	238393	878.994	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 87.90%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	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	
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 73162-03.D
Acq On : 16 Dec 2024 09:34 am
Operator : SV118:dv
Sample : L2473162-03,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 17 13:26:53 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\241216RVT\ccv1216.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

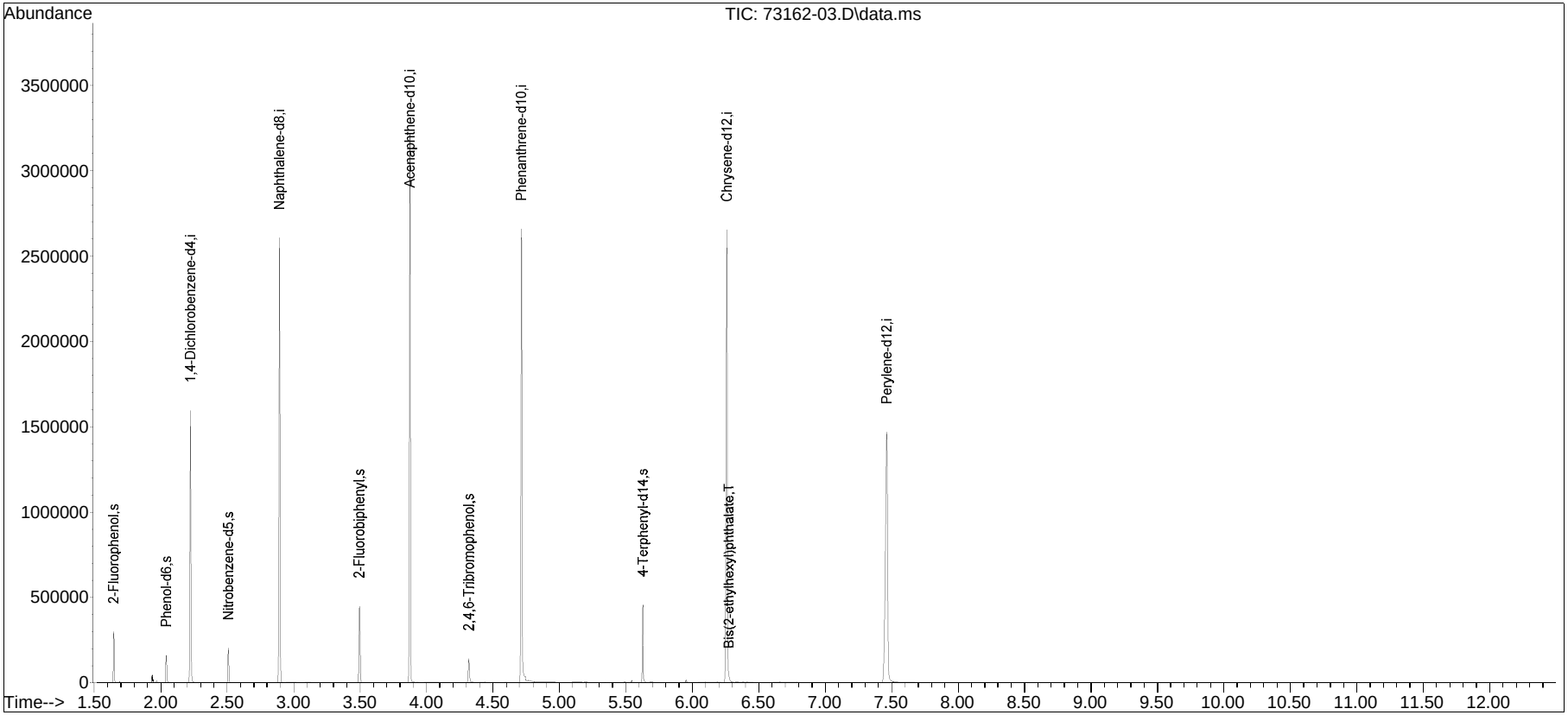
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 73162-03.D
Acq On : 16 Dec 2024 09:34 am
Operator : SV118:dv
Sample : L2473162-03,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 17 13:26:53 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv1216.D•



Manual Integration Report

Data Path	: I:\8270SIM\SV118\241216RVTQ	Method	: SIM-RVT_241025sv118.M
Data File	: 73162-03.D	Operator	: SV118:dv
Date Inj'd	: 12/16/2024 9:34 am	Instrument	: SV118
Sample	: L2473162-03,32,,kmh	Quant Date	: 12/16/2024 9:47 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 73162-04.D
Acq On : 16 Dec 2024 09:51 am
Operator : SV118:dv
Sample : L2473162-04,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 17 13:27:43 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\241216RVT\ccv1216.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.225	152	291526	4000.000	ng/ml	0.00
Standard Area 1 = 337319			Recovery = 86.42%			
8) Naphthalene-d8	2.893	136	1076832	4000.000	ng/ml	0.00
Standard Area 1 = 1155411			Recovery = 93.20%			
17) Acenaphthene-d10	3.875	164	685244	4000.000	ng/ml	0.00
Standard Area 1 = 643247			Recovery = 106.53%			
22) Phenanthrene-d10	4.716	188	1343488	4000.000	ng/ml	# 0.00
Standard Area 1 = 1305613			Recovery = 102.90%			
31) Chrysene-d12	6.259	240	1325288	4000.000	ng/ml	-0.03
Standard Area 1 = 1642453			Recovery = 80.69%			
36) Perylene-d12	7.462	264	1285643	4000.000	ng/ml	-0.04
Standard Area 1 = 1677056			Recovery = 76.66%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.646	112	80642	978.388	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 48.92%			
3) Phenol-d6	2.040	99	68141	672.787	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 33.64%			
7) Nitrobenzene-d5	2.509	82	64932	993.011	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 99.30%			
13) 2-Fluorobiphenyl	3.494	172	184529	891.225	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 89.12%			
21) 2,4,6-Tribromophenol	4.321	330	47253	1496.512	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 74.83%			
30) 4-Terphenyl-d14	5.626	244	255937	931.062	ng/ml	-0.01
Spiked Amount 1000.000	Range 30 - 130		Recovery = 93.11%			

Target Compounds				Qvalue
4) Bis(2-chloroethyl)ether	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	
14) 2-Chloronaphthalene	0.000	0	N.D. d	
16) Acenaphthylene	0.000	0	N.D. d	
18) Acenaphthene	0.000	0	N.D. d	
20) Fluorene	0.000	0	N.D. d	
24) Hexachlorobenzene	0.000	0	N.D. d	

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 73162-04.D
Acq On : 16 Dec 2024 09:51 am
Operator : SV118:dv
Sample : L2473162-04,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 17 13:27:43 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\241216RVT\ccv1216.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

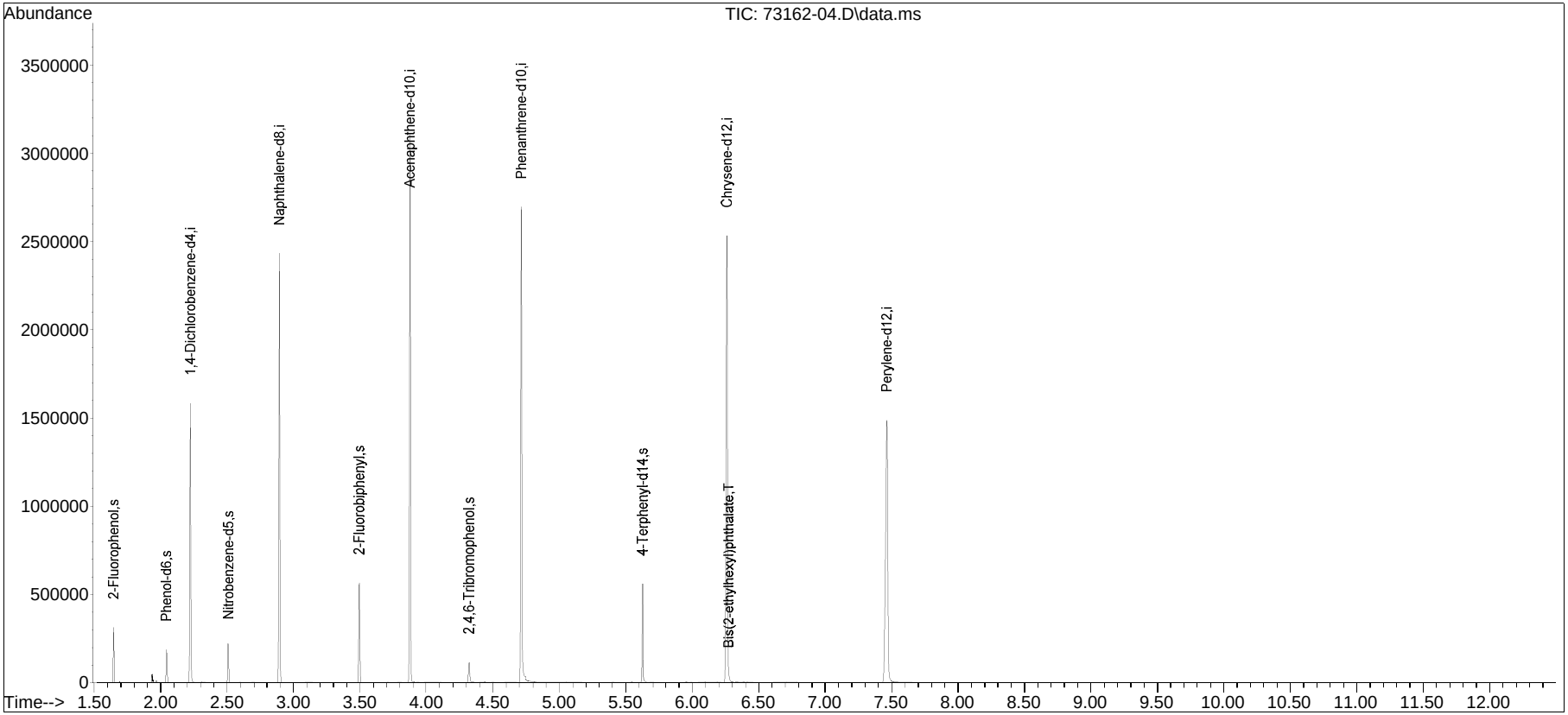
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 73162-04.D
Acq On : 16 Dec 2024 09:51 am
Operator : SV118:dv
Sample : L2473162-04,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 17 13:27:43 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv1216.D•



Manual Integration Report

Data Path	: I:\8270SIM\SV118\241216RVTQ	Method	: SIM-RVT_241025sv118.M
Data File	: 73162-04.D	Operator	: SV118:dv
Date Inj'd	: 12/16/2024 9:51 am	Instrument	: SV118
Sample	: L2473162-04,32,,kmh	Quant Date	: 12/16/2024 10:04 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 73162-05.D
Acq On : 16 Dec 2024 10:08 am
Operator : SV118:dv
Sample : L2473162-05,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 17 13:28:33 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\241216RVT\ccv1216.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.225	152	310890	4000.000	ng/ml	0.00
Standard Area 1 = 337319			Recovery = 92.16%			
8) Naphthalene-d8	2.893	136	1293513	4000.000	ng/ml	0.00
Standard Area 1 = 1155411			Recovery = 111.95%			
17) Acenaphthene-d10	3.875	164	752401	4000.000	ng/ml	0.00
Standard Area 1 = 643247			Recovery = 116.97%			
22) Phenanthrene-d10	4.715	188	1527034	4000.000	ng/ml	# 0.00
Standard Area 1 = 1305613			Recovery = 116.96%			
31) Chrysene-d12	6.258	240	1536208	4000.000	ng/ml	-0.03
Standard Area 1 = 1642453			Recovery = 93.53%			
36) Perylene-d12	7.460	264	1520650	4000.000	ng/ml	-0.04
Standard Area 1 = 1677056			Recovery = 90.67%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.645	112	80146	911.805	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 45.59%			
3) Phenol-d6	2.040	99	62756	581.025	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 29.05%			
7) Nitrobenzene-d5	2.509	82	61564	882.862	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 88.29%			
13) 2-Fluorobiphenyl	3.494	172	163333	656.710	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 65.67%			
21) 2,4,6-Tribromophenol	4.320	330	46021	1327.403	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 66.37%			
30) 4-Terphenyl-d14	5.628	244	236914	758.266	ng/ml	-0.01
Spiked Amount 1000.000	Range 30 - 130		Recovery = 75.83%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	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	
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	0.000		0	N.D.	d	

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 73162-05.D
Acq On : 16 Dec 2024 10:08 am
Operator : SV118:dv
Sample : L2473162-05,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 17 13:28:33 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\241216RVT\ccv1216.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

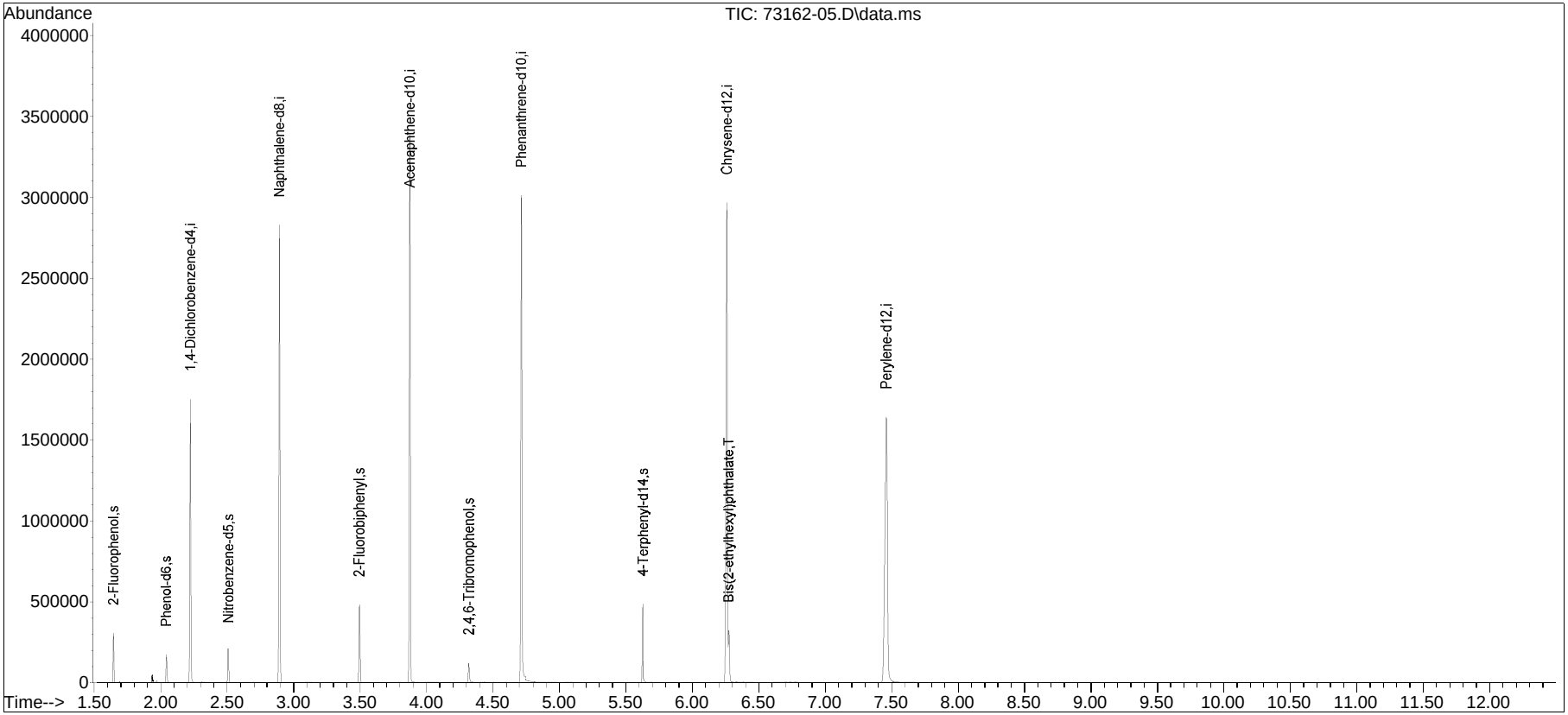
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 73162-05.D
Acq On : 16 Dec 2024 10:08 am
Operator : SV118:dv
Sample : L2473162-05,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 17 13:28:33 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv1216.D•



Manual Integration Report

Data Path	: I:\8270SIM\SV118\241216RVTQ	Method	: SIM-RVT_241025sv118.M
Data File	: 73162-05.D	Operator	: SV118:dv
Date Inj'd	: 12/16/2024 10:08 am	Instrument	: SV118
Sample	: L2473162-05,32,,kmh	Quant Date	: 12/16/2024 10:21 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 73162-06.D
Acq On : 16 Dec 2024 10:25 am
Operator : SV118:dv
Sample : L2473162-06,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 17 13:29:23 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\241216RVT\ccv1216.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.225	152	266368	4000.000	ng/ml	0.00
Standard Area 1 = 337319			Recovery = 78.97%			
8) Naphthalene-d8	2.893	136	946746	4000.000	ng/ml	0.00
Standard Area 1 = 1155411			Recovery = 81.94%			
17) Acenaphthene-d10	3.876	164	533105	4000.000	ng/ml	0.00
Standard Area 1 = 643247			Recovery = 82.88%			
22) Phenanthrene-d10	4.715	188	1108424	4000.000	ng/ml	# 0.00
Standard Area 1 = 1305613			Recovery = 84.90%			
31) Chrysene-d12	6.259	240	1071719	4000.000	ng/ml	-0.03
Standard Area 1 = 1642453			Recovery = 65.25%			
36) Perylene-d12	7.462	264	1433813	4000.000	ng/ml	-0.04
Standard Area 1 = 1677056			Recovery = 85.50%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.639	112	62991	836.418	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 41.82%			
3) Phenol-d6	2.040	99	49238	532.065	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 26.60%			
7) Nitrobenzene-d5	2.509	82	46010	770.093	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 77.01%			
13) 2-Fluorobiphenyl	3.494	172	96343	529.246	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 52.92%			
21) 2,4,6-Tribromophenol	4.320	330	30667	1248.402	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 62.42%			
30) 4-Terphenyl-d14	5.628	244	126553	558.015	ng/ml	-0.01
Spiked Amount 1000.000	Range 30 - 130		Recovery = 55.80%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	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	
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	0.000		0	N.D.	d	

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 73162-06.D
Acq On : 16 Dec 2024 10:25 am
Operator : SV118:dv
Sample : L2473162-06,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 17 13:29:23 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\241216RVT\ccv1216.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

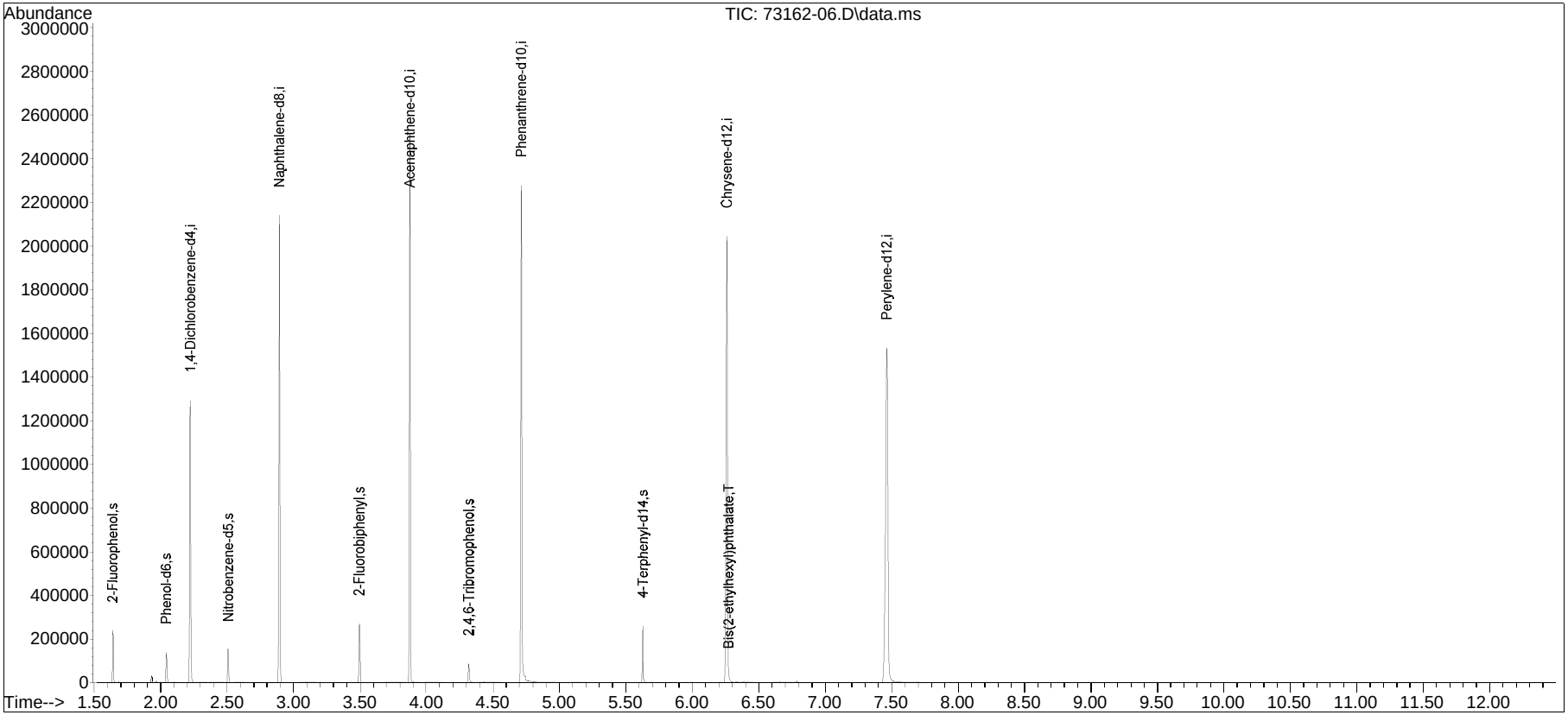
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 73162-06.D
Acq On : 16 Dec 2024 10:25 am
Operator : SV118:dv
Sample : L2473162-06,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 17 13:29:23 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv1216.D•



Manual Integration Report

Data Path	: I:\8270SIM\SV118\241216RVTQ	Method	: SIM-RVT_241025sv118.M
Data File	: 73162-06.D	Operator	: SV118:dv
Date Inj'd	: 12/16/2024 10:25 am	Instrument	: SV118
Sample	: L2473162-06,32,,kmh	Quant Date	: 12/16/2024 10:38 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 73162-07.D
Acq On : 16 Dec 2024 11:15 am
Operator : SV118:dv
Sample : L2473162-07,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 17 13:30:12 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\241216RVT\ccv1216.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.224	152	249481	4000.000	ng/ml	0.00
Standard Area 1 = 337319			Recovery = 73.96%			
8) Naphthalene-d8	2.893	136	1077572	4000.000	ng/ml	0.00
Standard Area 1 = 1155411			Recovery = 93.26%			
17) Acenaphthene-d10	3.875	164	630196	4000.000	ng/ml	0.00
Standard Area 1 = 643247			Recovery = 97.97%			
22) Phenanthrene-d10	4.715	188	1335955	4000.000	ng/ml	# 0.00
Standard Area 1 = 1305613			Recovery = 102.32%			
31) Chrysene-d12	6.255	240	1446980	4000.000	ng/ml	-0.03
Standard Area 1 = 1642453			Recovery = 88.10%			
36) Perylene-d12	7.462	264	1415062	4000.000	ng/ml	-0.04
Standard Area 1 = 1677056			Recovery = 84.38%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.640	112	64033	907.807	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 45.39%			
3) Phenol-d6	2.040	99	53264	614.529	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 30.73%			
7) Nitrobenzene-d5	2.506	82	53490	955.890	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 95.59%			
13) 2-Fluorobiphenyl	3.494	172	137202	662.193	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 66.22%			
21) 2,4,6-Tribromophenol	4.320	330	41458	1427.673	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 71.38%			
30) 4-Terphenyl-d14	5.628	244	231691	847.611	ng/ml	-0.01
Spiked Amount 1000.000	Range 30 - 130		Recovery = 84.76%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	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	
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	0.000		0	N.D.	d	

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 73162-07.D
Acq On : 16 Dec 2024 11:15 am
Operator : SV118:dv
Sample : L2473162-07,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 17 13:30:12 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\241216RVT\ccv1216.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

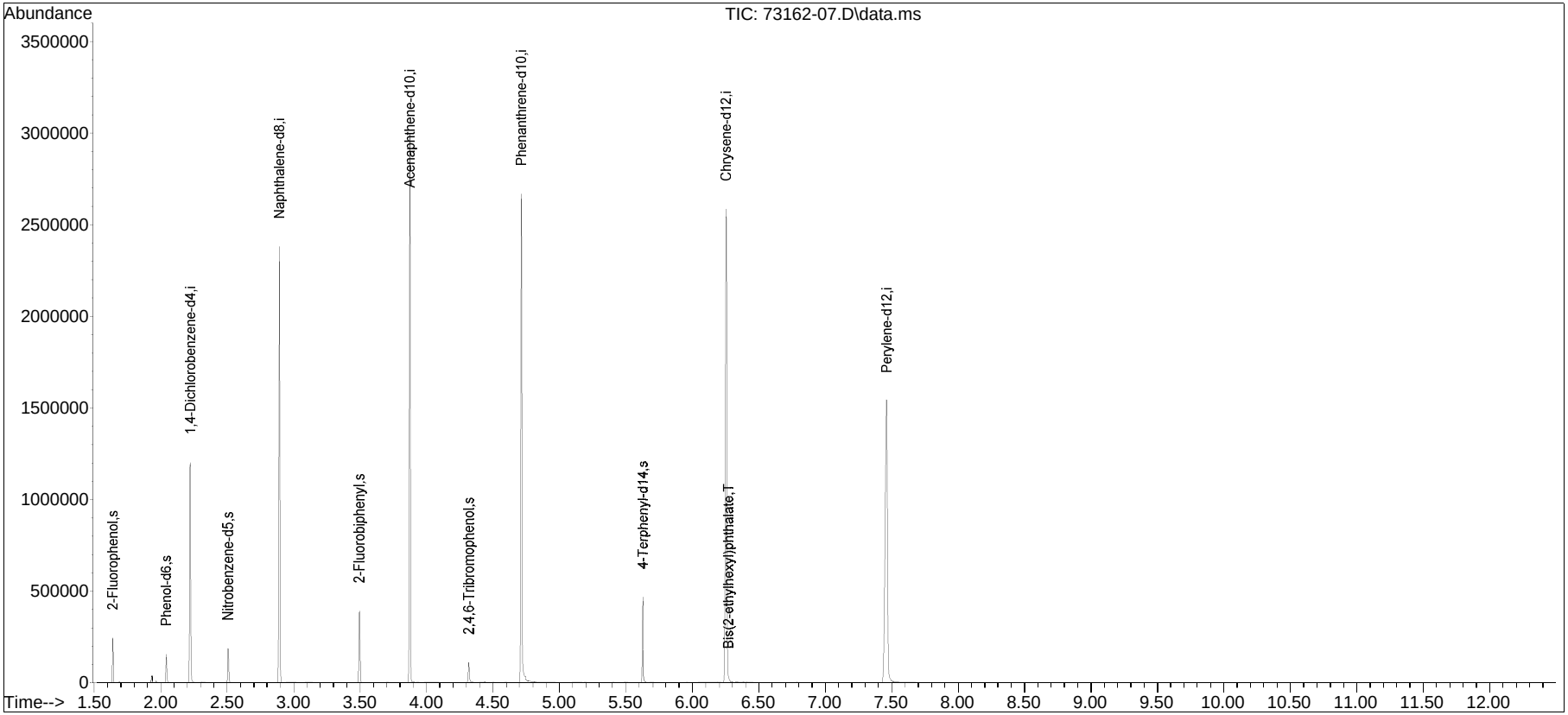
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 73162-07.D
Acq On : 16 Dec 2024 11:15 am
Operator : SV118:dv
Sample : L2473162-07,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 17 13:30:12 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv1216.D•



Manual Integration Report

Data Path	: I:\8270SIM\SV118\241216RVTQ	Method	: SIM-RVT_241025sv118.M
Data File	: 73162-07.D	Operator	: SV118:dv
Date Inj'd	: 12/16/2024 11:15 am	Instrument	: SV118
Sample	: L2473162-07,32,,kmh	Quant Date	: 12/16/2024 11:28 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 73162-08.D
Acq On : 16 Dec 2024 11:32 am
Operator : SV118:dv
Sample : L2473162-08,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 17 13:32:15 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241216RVT\ccv1216.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.224	152	253978	4000.000	ng/ml	0.00
Standard Area 1 = 337319			Recovery = 75.29%			
8) Naphthalene-d8	2.893	136	1082357	4000.000	ng/ml	0.00
Standard Area 1 = 1155411			Recovery = 93.68%			
17) Acenaphthene-d10	3.875	164	631881	4000.000	ng/ml	0.00
Standard Area 1 = 643247			Recovery = 98.23%			
22) Phenanthrene-d10	4.715	188	1316344	4000.000	ng/ml	# 0.00
Standard Area 1 = 1305613			Recovery = 100.82%			
31) Chrysene-d12	6.256	240	1421882	4000.000	ng/ml	-0.03
Standard Area 1 = 1642453			Recovery = 86.57%			
36) Perylene-d12	7.460	264	1392676	4000.000	ng/ml	-0.04
Standard Area 1 = 1677056			Recovery = 83.04%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.638	112	57273	797.592	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 39.88%			
3) Phenol-d6	2.040	99	50833	576.097	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 28.80%			
7) Nitrobenzene-d5	2.506	82	48041	843.313	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 84.33%			
13) 2-Fluorobiphenyl	3.494	172	138816	667.021	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 66.70%			
21) 2,4,6-Tribromophenol	4.321	330	36009	1236.721	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 61.84%			
30) 4-Terphenyl-d14	5.626	244	213034	790.968	ng/ml	-0.01
Spiked Amount 1000.000	Range 30 - 130		Recovery = 79.10%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	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	
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 73162-08.D
Acq On : 16 Dec 2024 11:32 am
Operator : SV118:dv
Sample : L2473162-08,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 17 13:32:15 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241216RVT\ccv1216.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

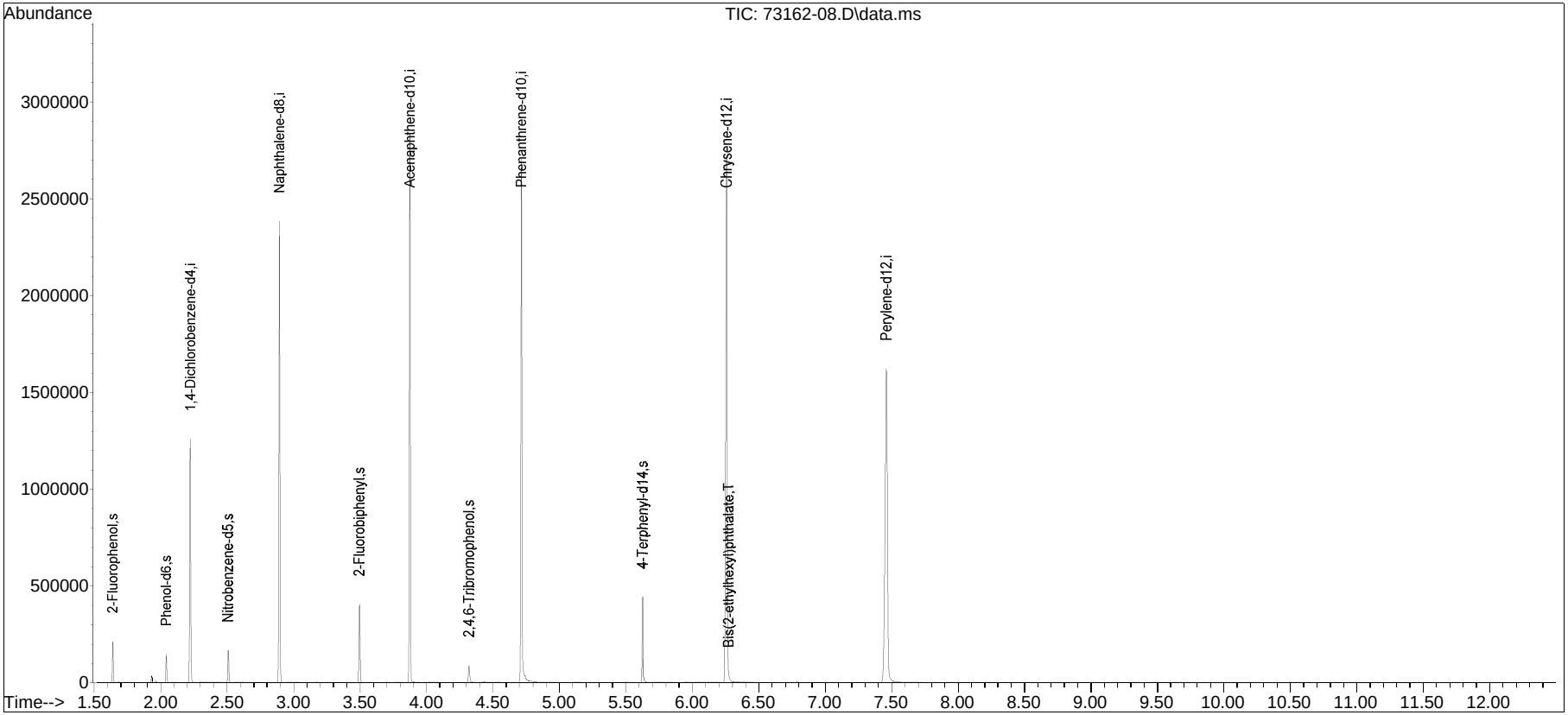
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 73162-08.D
Acq On : 16 Dec 2024 11:32 am
Operator : SV118:dv
Sample : L2473162-08,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 17 13:32:15 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv1216.D•



Manual Integration Report

Data Path	: I:\8270SIM\SV118\241216RVTQ	Method	: SIM-RVT_241025sv118.M
Data File	: 73162-08.D	Operator	: SV118:dv
Date Inj'd	: 12/16/2024 11:32 am	Instrument	: SV118
Sample	: L2473162-08,32,,kmh	Quant Date	: 12/16/2024 11:45 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 73162-09.D
Acq On : 16 Dec 2024 11:49 am
Operator : SV118:dv
Sample : L2473162-09,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 17 13:33:24 2024
Quant Method : I:\8270SIM\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241216RVT\ccv1216.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.221	152	211892	4000.000	ng/ml	0.00
Standard Area 1 = 337319			Recovery = 62.82%			
8) Naphthalene-d8	2.893	136	955495	4000.000	ng/ml	0.00
Standard Area 1 = 1155411			Recovery = 82.70%			
17) Acenaphthene-d10	3.876	164	560129	4000.000	ng/ml	0.00
Standard Area 1 = 643247			Recovery = 87.08%			
22) Phenanthrene-d10	4.717	188	1190371	4000.000	ng/ml	0.00
Standard Area 1 = 1305613			Recovery = 91.17%			
31) Chrysene-d12	6.255	240	1319447	4000.000	ng/ml	-0.03
Standard Area 1 = 1642453			Recovery = 80.33%			
36) Perylene-d12	7.457	264	1296595	4000.000	ng/ml	-0.04
Standard Area 1 = 1677056			Recovery = 77.31%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.636	112	52221	871.681	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 43.58%			
3) Phenol-d6	2.040	99	41347	561.663	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 28.08%			
7) Nitrobenzene-d5	2.506	82	40427	850.608	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 85.06%			
13) 2-Fluorobiphenyl	3.494	172	113074	615.467	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 61.55%			
21) 2,4,6-Tribromophenol	4.320	330	33660	1304.133	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 65.21%			
30) 4-Terphenyl-d14	5.625	244	181660	745.858	ng/ml	-0.01
Spiked Amount 1000.000	Range 30 - 130		Recovery = 74.59%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	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	
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 73162-09.D
Acq On : 16 Dec 2024 11:49 am
Operator : SV118:dv
Sample : L2473162-09,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 17 13:33:24 2024
Quant Method : I:\8270SIM\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241216RVT\ccv1216.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

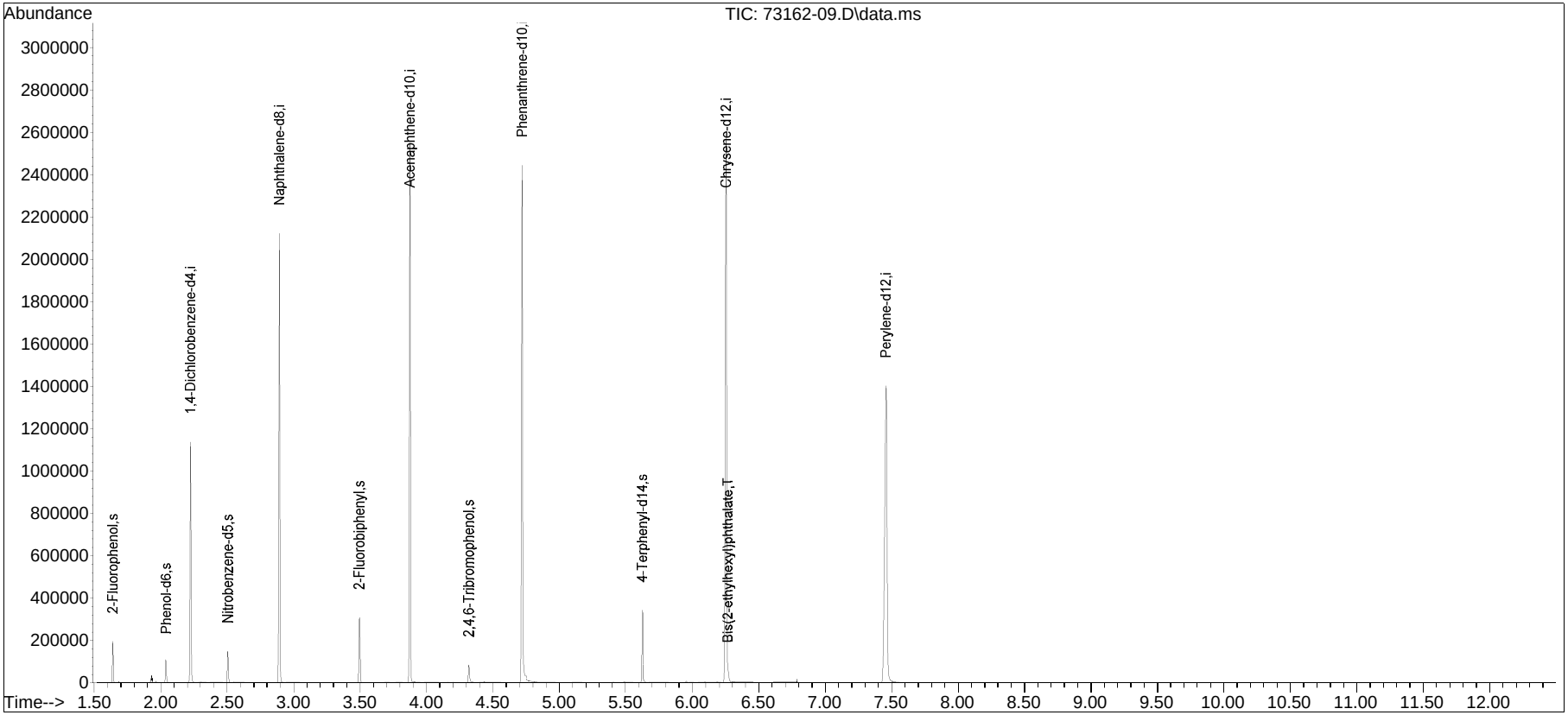
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 73162-09.D
Acq On : 16 Dec 2024 11:49 am
Operator : SV118:dv
Sample : L2473162-09,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 17 13:33:24 2024
Quant Method : I:\8270SIM\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed\ccv1216.D•



Manual Integration Report

Data Path	: I:\8270SIM\SV118\241216RVTQ	Method	: SIM-RVT_241025sv118.M
Data File	: 73162-09.D	Operator	: SV118:dv
Date Inj'd	: 12/16/2024 11:49 am	Instrument	: SV118
Sample	: L2473162-09,32,,kmh	Quant Date	: 12/17/2024 1:34 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 73162-10.D
Acq On : 16 Dec 2024 12:06 pm
Operator : SV118:dv
Sample : L2473162-10,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 17 13:34:25 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241216RVT\ccv1216.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.221	152	229288	4000.000	ng/ml	0.00
Standard Area 1 = 337319			Recovery = 67.97%			
8) Naphthalene-d8	2.893	136	972637	4000.000	ng/ml	0.00
Standard Area 1 = 1155411			Recovery = 84.18%			
17) Acenaphthene-d10	3.875	164	569270	4000.000	ng/ml	0.00
Standard Area 1 = 643247			Recovery = 88.50%			
22) Phenanthrene-d10	4.717	188	1210902	4000.000	ng/ml	0.00
Standard Area 1 = 1305613			Recovery = 92.75%			
31) Chrysene-d12	6.256	240	1361075	4000.000	ng/ml	-0.03
Standard Area 1 = 1642453			Recovery = 82.87%			
36) Perylene-d12	7.460	264	1341761	4000.000	ng/ml	-0.04
Standard Area 1 = 1677056			Recovery = 80.01%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.636	112	51766	798.528	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 39.93%			
3) Phenol-d6	2.040	99	40583	509.459	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 25.47%			
7) Nitrobenzene-d5	2.506	82	43473	845.300	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 84.53%			
13) 2-Fluorobiphenyl	3.494	172	121815	651.359	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 65.14%			
21) 2,4,6-Tribromophenol	4.324	330	29751	1134.173	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 56.71%			
30) 4-Terphenyl-d14	5.628	244	199605	805.641	ng/ml	-0.01
Spiked Amount 1000.000	Range 30 - 130		Recovery = 80.56%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	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	
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	0.000		0	N.D.	d	

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 73162-10.D
Acq On : 16 Dec 2024 12:06 pm
Operator : SV118:dv
Sample : L2473162-10,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 17 13:34:25 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241216RVT\ccv1216.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

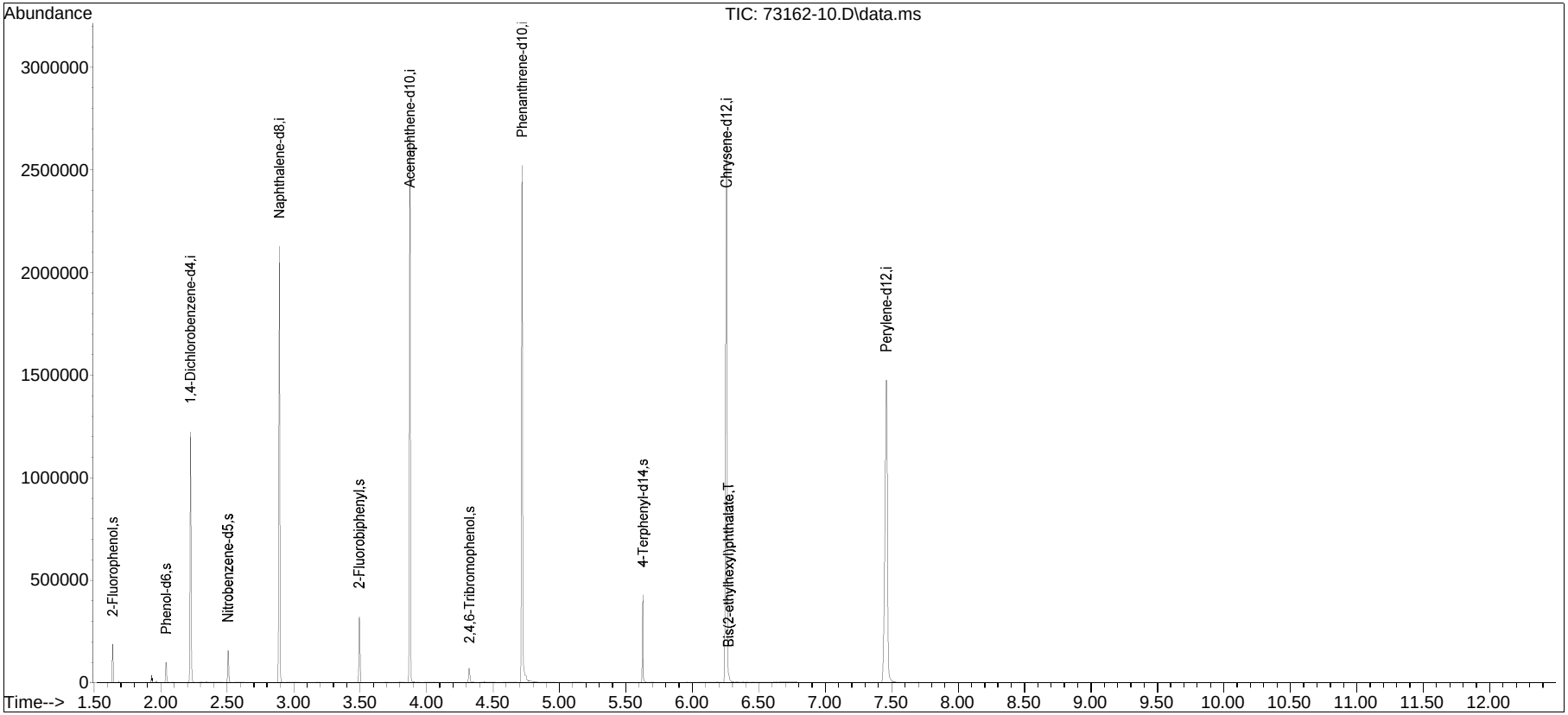
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 73162-10.D
Acq On : 16 Dec 2024 12:06 pm
Operator : SV118:dv
Sample : L2473162-10,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 17 13:34:25 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv1216.D•



Manual Integration Report

Data Path	: I:\8270SIM\SV118\241216RVTQ	Method	: SIM-RVT_241025sv118.M
Data File	: 73162-10.D	Operator	: SV118:dv
Date Inj'd	: 12/16/2024 12:06 pm	Instrument	: SV118
Sample	: L2473162-10,32,,kmh	Quant Date	: 12/16/2024 12:19 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**	**: L2473162**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV118**	**Ical Ref**	**: ICAL21646**
Calibration dates	**: 10/25/24 16:43 10/25/24 19:21**		

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	1.270	1.175	1.089	1.059	1.064	1.312	1.096	1.108	1.085	1.052	1.131	8.10
3)	s	Phenol-d6		1.509	1.330	1.309	1.306	1.633	1.358	1.381	1.355	1.327	1.390	7.92
4)	T	bis(2-Chloroethyl)ether			1.283	1.212	1.202	1.983	1.201	1.208	1.190	1.160	*L	0.9949
5)	T	n-Nitrosodi-n-propylamine		0.972	0.846	0.805	0.780	1.008	0.848	0.875	0.885	0.891	0.879	8.34
6)	t	Hexachloroethane			0.513	0.478	0.470	0.588	0.493	0.501	0.493	0.479	0.502	7.46
7)	s	Nitrobenzene-d5	0.895	0.866	0.811	0.822	0.829	1.066	0.900	0.941	0.936	0.906	0.897	8.38
8)	i	Naphthalene-d8	----------ISTD----------											
9)	t	Naphthalene		1.112	1.089	1.043	1.006	1.243	1.015	1.023	0.994	0.952	1.053	8.18
10)	t	Hexachlorobutadiene				0.182	0.182	0.223	0.183	0.184	0.183	0.172	0.187	8.78
11)	t	2-Methylnaphthalene		0.712	0.668	0.642	0.636	0.795	0.663	0.669	0.655	0.631	0.674	7.59
12)	t	1-Methylnaphthalene		0.676	0.623	0.584	0.595	0.742	0.612	0.618	0.605	0.593	0.627	8.09
13)	s	2-Fluorobiphenyl	0.820	0.810	0.754	0.727	0.724	0.907	0.751	0.749	0.736	0.711	0.769	7.81
14)	t	2-Chloronaphthalene		0.710	0.674	0.633	0.636	0.799	0.667	0.673	0.657	0.643	0.677	7.62
15)	t	2,6-Dinitrotoluene			0.097	0.085	0.066	0.088	0.087	0.097	0.104	0.110	0.092	14.66
16)	t	Acenaphthylene		1.017	0.952	0.900	0.919	1.177	1.010	1.024	1.011	1.008	1.002	7.98
17)	i	Acenaphthene-d10	----------ISTD----------											
18)	t	Acenaphthene		1.383	1.336	1.259	1.239	1.560	1.270	1.270	1.254	1.197	1.308	8.35
19)	t	2,4-Dinitrotoluene					0.137	0.195	0.207	0.231	0.252	0.260	*L	0.9978
20)	t	Fluorene		1.480	1.339	1.304	1.309	1.672	1.395	1.388	1.355	1.297	1.393	8.56
21)	s	2,4,6-Tribromophenol			0.170	0.154	0.158	0.212	0.190	0.195	0.200	0.195	0.184	11.47
22)	i	Phenanthrene-d10	----------ISTD----------											
23)	T	4,6-Dinitro-o-cresol					0.028	0.041	0.042	0.047	0.051	0.053	*L	0.9972
24)	t	Hexachlorobenzene		0.291	0.258	0.254	0.248	0.316	0.259	0.259	0.253	0.234	0.263	9.34
25)	t	Pentachlorophenol				0.078	0.084	0.084	0.090	0.110	0.121	0.120	0.098	18.74
26)	t	Phenanthrene		1.200	1.109	1.049	1.039	1.303	1.054	1.045	1.020	0.953	1.086	9.71
27)	t	Anthracene		1.104	1.056	0.993	1.002	1.277	1.063	1.064	1.043	0.989	1.066	8.28
28)	t	Fluoranthene		1.303	1.185	1.128	1.144	1.474	1.235	1.200	1.147	1.123	1.216	9.30
29)	t	Pyrene		1.402	1.265	1.195	1.197	1.544	1.325	1.274	1.226	1.193	1.291	9.08
30)	s	4-Terphenyl-d14	0.927	0.861	0.807	0.746	0.766	0.981	0.824	0.790	0.755	0.727	0.818	10.09
31)	i	Chrysene-d12	----------ISTD----------											
32)	t	Benzo[a]anthracene			0.545	0.411	0.334	0.421	0.357	0.358	0.361	0.346	0.392	17.63
33)	t	3,3'-Dichlorobenzidine			0.322	0.318	0.340	0.476	0.447	0.472	0.485	0.480	0.418	18.25
34)	t	Chrysene		1.165	1.253	1.131	1.163	1.469	1.221	1.193	1.171	1.094	1.207	9.00
35)	T	bis(2-Ethylhexyl)phthalate				0.711	0.493	0.692	0.687	0.739	0.785	0.763	0.696	13.85
36)	i	Perylene-d12	----------ISTD----------											

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2473162**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV118**	**Ical Ref**	**: ICAL21646**
Calibration dates	**: 10/25/24 16:43 10/25/24 19:21**		

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		1.012	0.957	0.895	0.910	1.232	1.094	1.066	1.094	1.022	1.031	10.19
38) t	Benzo[k]fluoranthene		1.071	0.999	0.951	1.016	1.335	1.130	1.150	1.132	1.059	1.093	10.30
39) t	Benzo[a]pyrene		0.825	0.796	0.772	0.801	1.088	0.973	0.978	1.000	0.968	0.911	12.45
40) t	Indeno[1,2,3-cd]pyrene		0.686	0.687	0.678	0.696	0.986	0.934	0.961	0.981	1.036	0.849	18.43
41) t	Dibenzo[a,h]anthracene			0.657	0.656	0.728	1.048	0.937	0.944	0.962	0.983	0.865	18.23
42) t	Benzo[g,h,i]perylene		0.784	0.781	0.753	0.795	1.061	0.938	0.942	0.958	1.003	0.890	12.72

Response Factor Report SV118

Method Path : I:\8270SIM\SV118\2024\241025RVTical\
Method File : SIM-RVT_241025sv118.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Nov 05 13:34:41 2024
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	1.270	1.175	1.089	1.059	1.064	1.312	1.096	1.108	1.085	1.052	1.131	8.10
3)	s	Phenol-d6		1.509	1.330	1.309	1.306	1.633	1.358	1.381	1.355	1.327	1.390	7.92
4)	T	bis(2-Chloroethyl)ether			1.283	1.212	1.202	1.983	1.201	1.208	1.190	1.160	*L	0.9949
5)	T	n-Nitrosodi-n-propylamine		0.972	0.846	0.805	0.780	1.008	0.848	0.875	0.885	0.891	0.879	8.34
6)	t	Hexachloroethane			0.513	0.478	0.470	0.588	0.493	0.501	0.493	0.479	0.502	7.46
7)	s	Nitrobenzene-d5	0.895	0.866	0.811	0.822	0.829	1.066	0.900	0.941	0.936	0.906	0.897	8.38
8)	i	Naphthalene-d8	ISTD											
9)	t	Naphthalene		1.112	1.089	1.043	1.006	1.243	1.015	1.023	0.994	0.952	1.053	8.18
10)	t	Hexachlorobutadiene				0.182	0.182	0.223	0.183	0.184	0.183	0.172	0.187	8.78
11)	t	2-Methylnaphthalene		0.712	0.668	0.642	0.636	0.795	0.663	0.669	0.655	0.631	0.674	7.59
12)	t	1-Methylnaphthalene		0.676	0.623	0.584	0.595	0.742	0.612	0.618	0.605	0.593	0.627	8.09
13)	s	2-Fluorobiphenyl	0.820	0.810	0.754	0.727	0.724	0.907	0.751	0.749	0.736	0.711	0.769	7.81
14)	t	2-Chloronaphthalene		0.710	0.674	0.633	0.636	0.799	0.667	0.673	0.657	0.643	0.677	7.62
15)	t	2,6-Dinitrotoluene			0.097	0.085	0.066	0.088	0.087	0.097	0.104	0.110	0.092	14.66
16)	t	Acenaphthylene		1.017	0.952	0.900	0.919	1.177	1.010	1.024	1.011	1.008	1.002	7.98
17)	i	Acenaphthene-d10	ISTD											
18)	t	Acenaphthene		1.383	1.336	1.259	1.239	1.560	1.270	1.270	1.254	1.197	1.308	8.35
19)	t	2,4-Dinitrotoluene					0.137	0.195	0.207	0.231	0.252	0.260	*L	0.9978
20)	t	Fluorene		1.480	1.339	1.304	1.309	1.672	1.395	1.388	1.355	1.297	1.393	8.56
21)	s	2,4,6-Tribromophenol			0.170	0.154	0.158	0.212	0.190	0.195	0.200	0.195	0.184	11.47
22)	i	Phenanthrene-d10	ISTD											
23)	T	4,6-Dinitro-o-cresol					0.028	0.041	0.042	0.047	0.051	0.053	*L	0.9972
24)	t	Hexachlorobenzene		0.291	0.258	0.254	0.248	0.316	0.259	0.259	0.253	0.234	0.263	9.34
25)	t	Pentachlorophenol				0.078	0.084	0.084	0.090	0.110	0.121	0.120	0.098	18.74
26)	t	Phenanthrene		1.200	1.109	1.049	1.039	1.303	1.054	1.045	1.020	0.953	1.086	9.71
27)	t	Anthracene		1.104	1.056	0.993	1.002	1.277	1.063	1.064	1.043	0.989	1.066	8.28
28)	t	Fluoranthene		1.303	1.185	1.128	1.144	1.474	1.235	1.200	1.147	1.123	1.216	9.30
29)	t	Pyrene		1.402	1.265	1.195	1.197	1.544	1.325	1.274	1.226	1.193	1.291	9.08
30)	s	4-Terphenyl-d14	0.927	0.861	0.807	0.746	0.766	0.981	0.824	0.790	0.755	0.727	0.818	10.09
31)	i	Chrysene-d12	ISTD											
32)	t	Benzo[a]anthracene			0.545	0.411	0.334	0.421	0.357	0.358	0.361	0.346	0.392	17.63
33)	t	3,3'-Dichlorobenzidine			0.322	0.318	0.340	0.476	0.447	0.472	0.485	0.480	0.418	18.25
34)	t	Chrysene		1.165	1.253	1.131	1.163	1.469	1.221	1.193	1.171	1.094	1.207	9.00
35)	T	bis(2-Ethylhexyl)phthalate				0.711	0.493	0.692	0.687	0.739	0.785	0.763	0.696	13.85
36)	i	Perylene-d12	ISTD											
37)	t	Benzo[b]fluora...		1.012	0.957	0.895	0.910	1.232	1.094	1.066	1.094	1.022	1.031	10.19
38)	t	Benzo[k]fluora...		1.071	0.999	0.951	1.016	1.335	1.130	1.150	1.132	1.059	1.093	10.30
39)	t	Benzo[a]pyrene		0.825	0.796	0.772	0.801	1.088	0.973	0.978	1.000	0.968	0.911	12.45
40)	t	Indeno[1,2,3-c...		0.686	0.687	0.678	0.696	0.986	0.934	0.961	0.981	1.036	0.849	18.43
41)	t	Dibenzo[a,h]anthracene			0.657	0.656	0.728	1.048	0.937	0.944	0.962	0.983	0.865	18.23
42)	t	Benzo[g,h,i]pe...		0.784	0.781	0.753	0.795	1.061	0.938	0.942	0.958	1.003	0.890	12.72

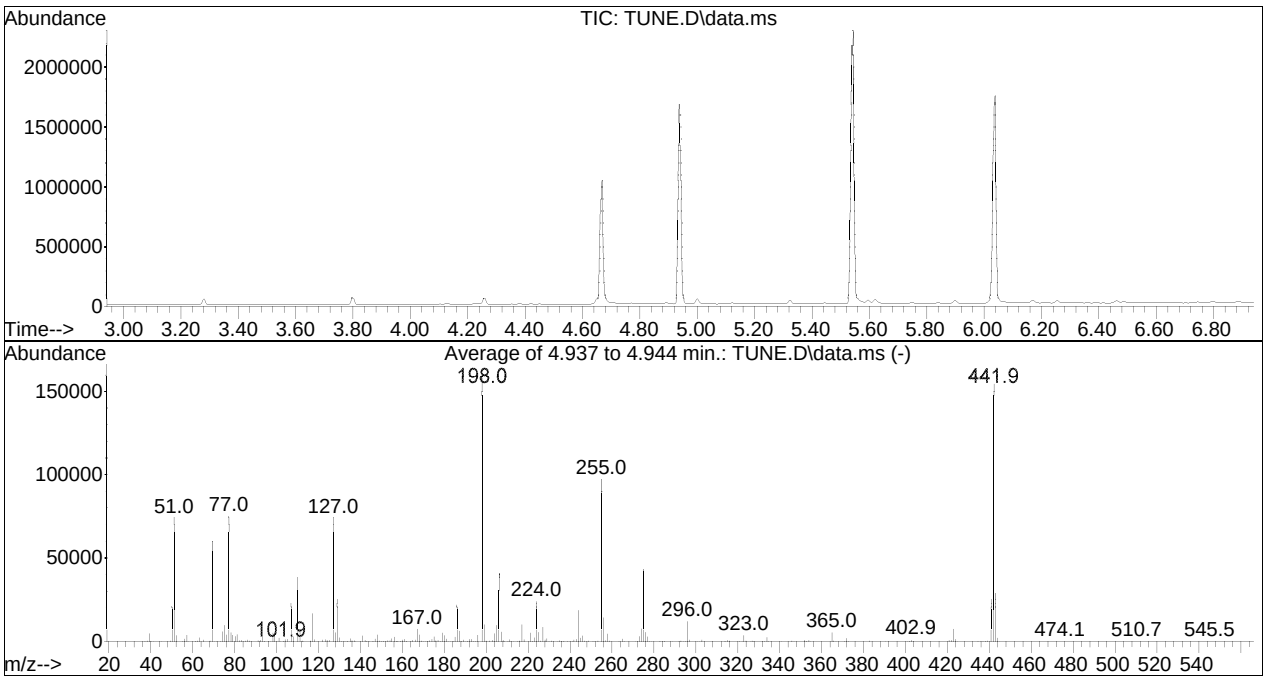
(#) = Out of Range

DFTPP

Data Path : I:\8270SIM\SV118\241025RVTical\
Data File : TUNE.D
Acq On : 25 Oct 2024 03:53 pm
Operator : SV118:dv
Sample : TUNE
Misc : WG1990947,,ical
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\SV118\241025RVTical\SIM-RVT_241025sv118.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Oct 28 11:02:57 2024



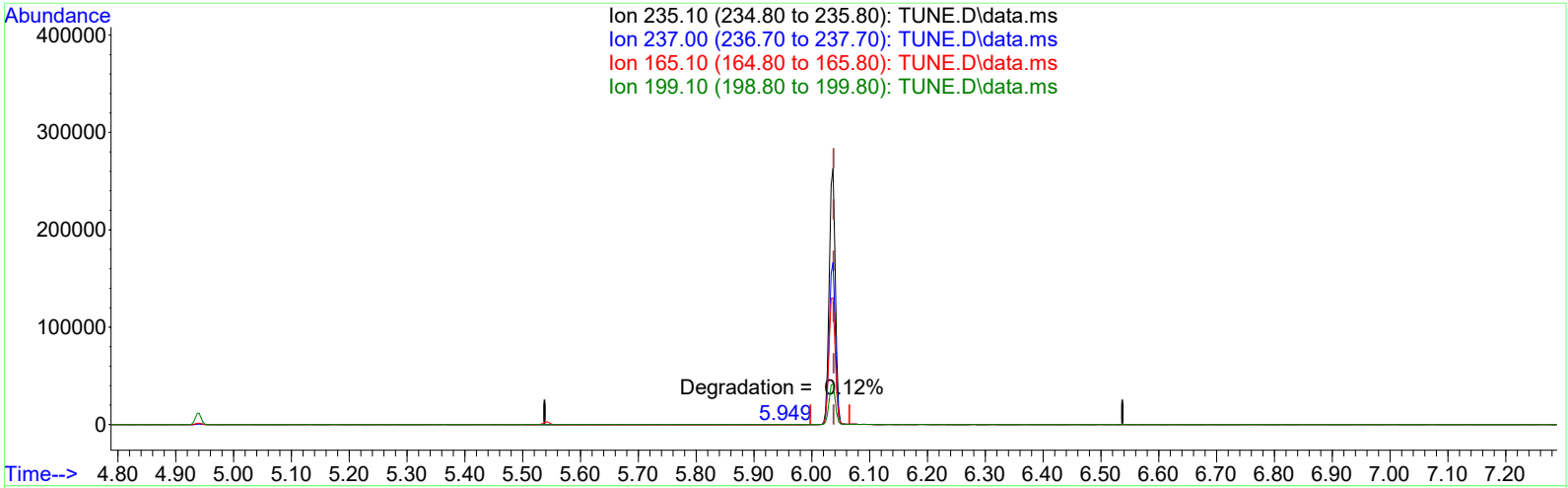
Spectrum Information: Average of 4.937 to 4.944 min.

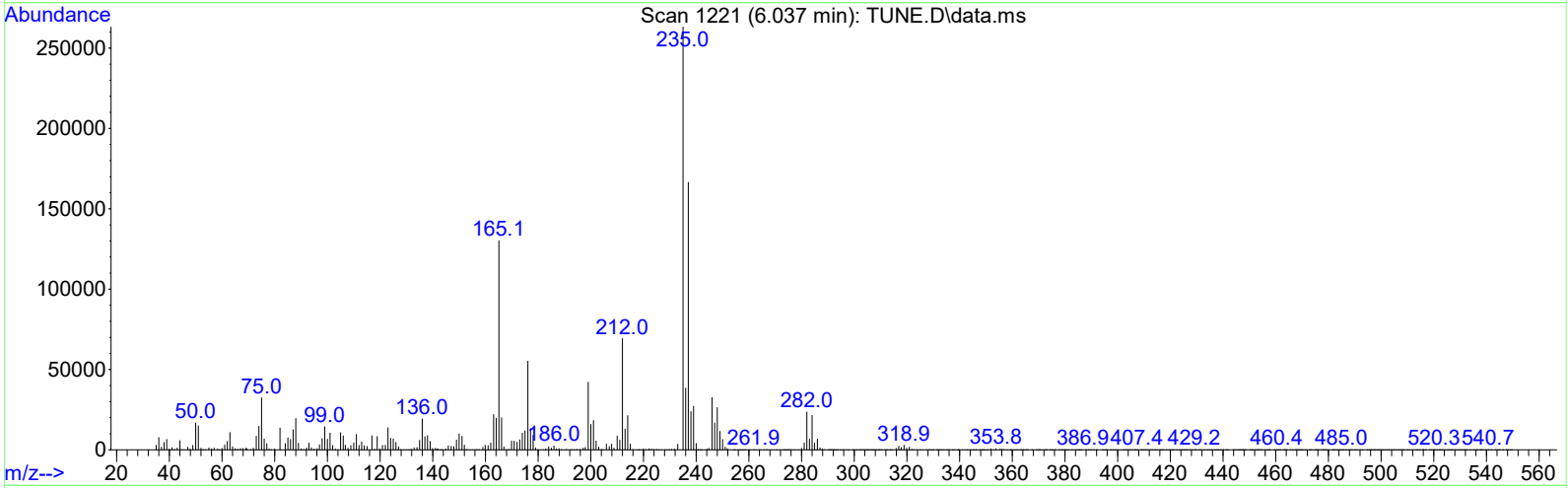
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	46.8	74020	PASS
68	69	0.00	2	1.4	853	PASS
69	69	100	100	100.0	59993	PASS
70	69	0.00	2	0.5	296	PASS
127	198	10	80	46.9	74182	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	158117	PASS
199	198	5	9	6.4	10110	PASS
275	198	10	60	27.3	43133	PASS
365	198	1	100	3.5	5542	PASS
441	442	0.01	24	16.3	25171	PASS
442	198	50	100	97.8	154617	PASS
443	442	15	24	18.4	28480	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV118\241025RVTical\
Data File : TUNE.D
Acq On : 25 Oct 2024 03:53 pm
Operator : SV118:dv
Sample : TUNE
Misc : WG1990947,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Oct 25 16:38:42 2024
Quant Method : I:\8270SIM\SV118\241025RVTical\dftppsv118.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 21 14:32:10 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools™ [TUNE]

(6) ddt (T)

6.037min (-0.001) 31.91

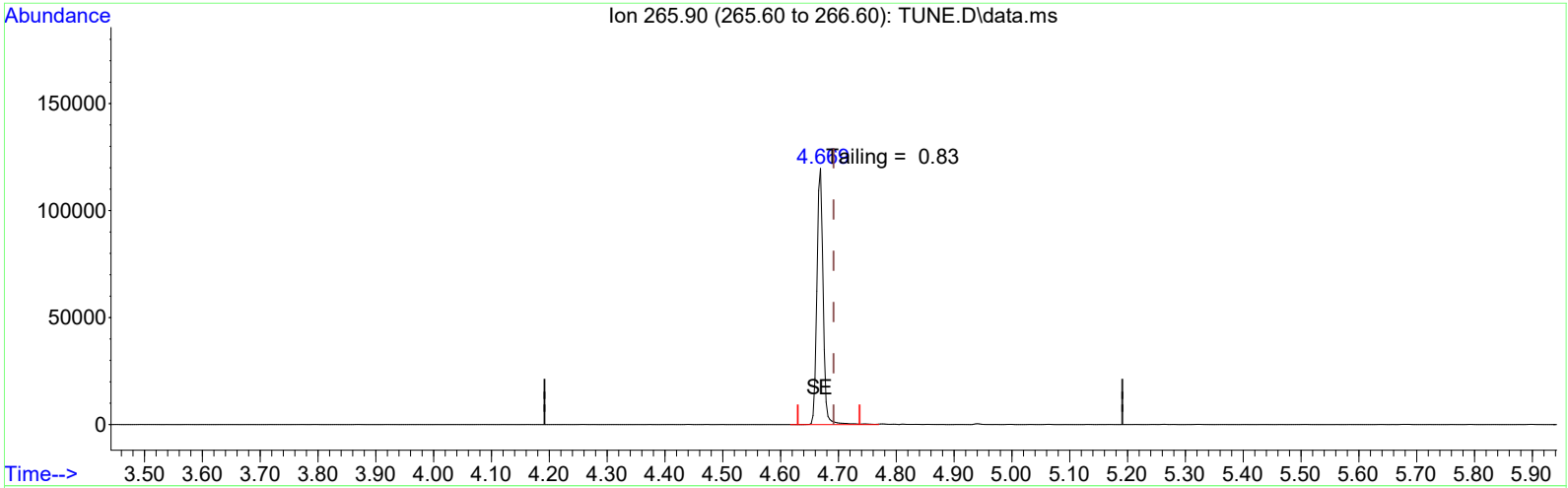
response 194534

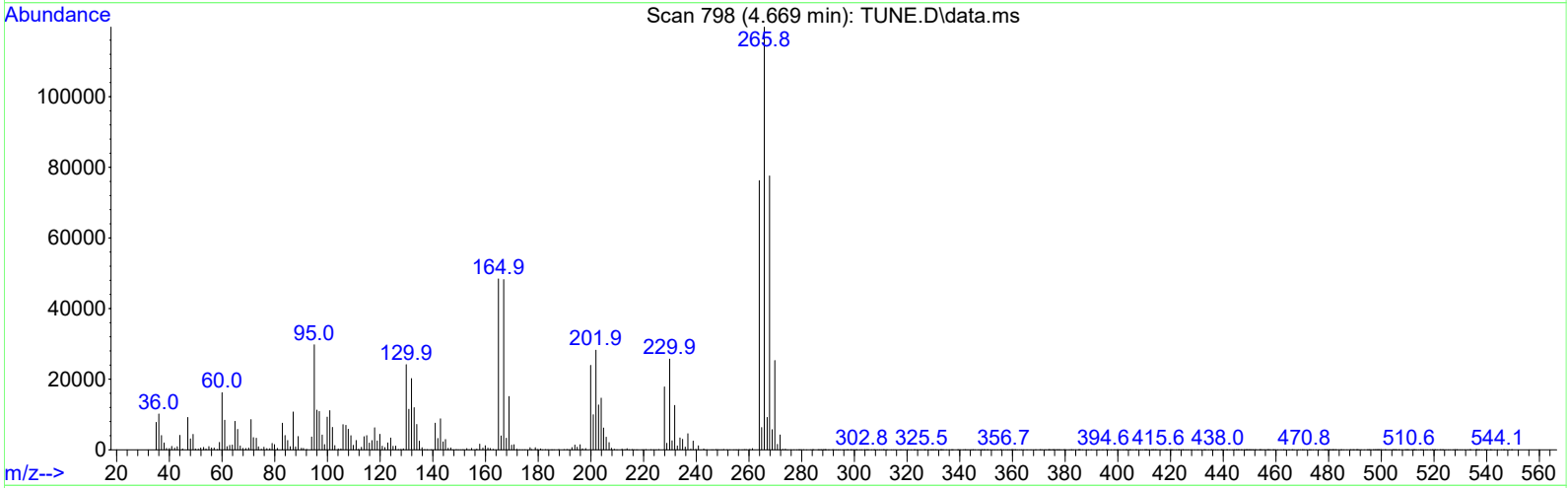
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	63.13
165.10	53.30	51.51
199.10	17.10	16.52

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV118\241025RVTical\
Data File : TUNE.D
Acq On : 25 Oct 2024 03:53 pm
Operator : SV118:dv
Sample : TUNE
Misc : WG1990947,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Oct 25 16:38:42 2024
Quant Method : I:\8270SIM\SV118\241025RVTical\dftppsv118.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 21 14:32:10 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools™ [TUNE]

(1) pentachlorophenol (T)

4.669min (-0.023) 42.64

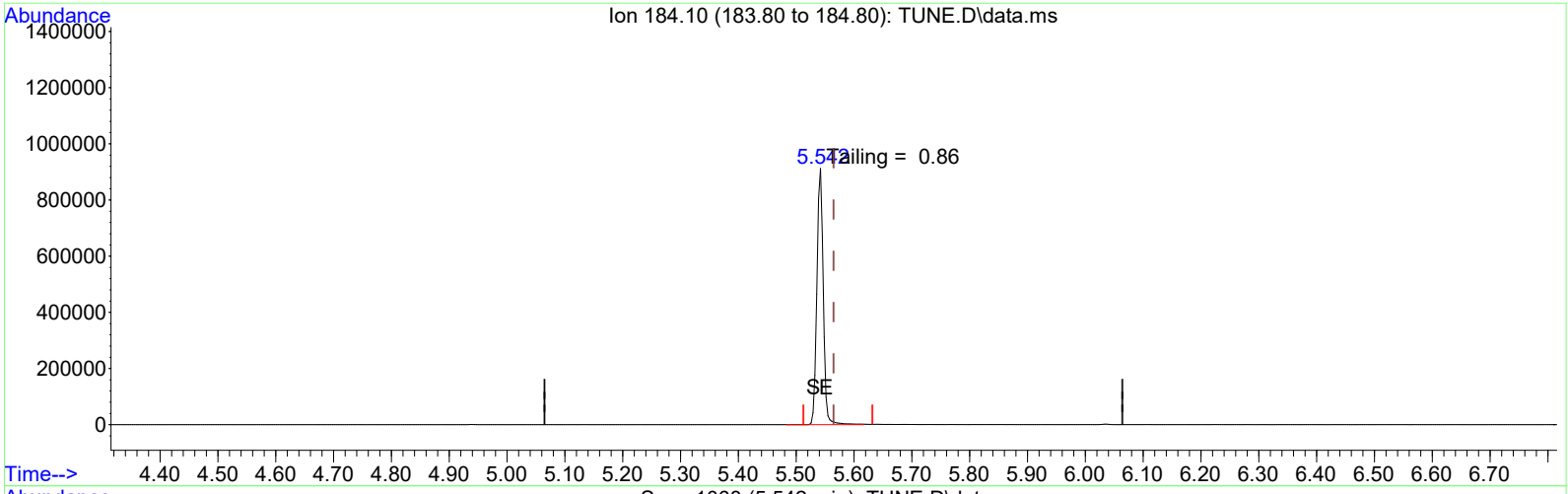
response 89553

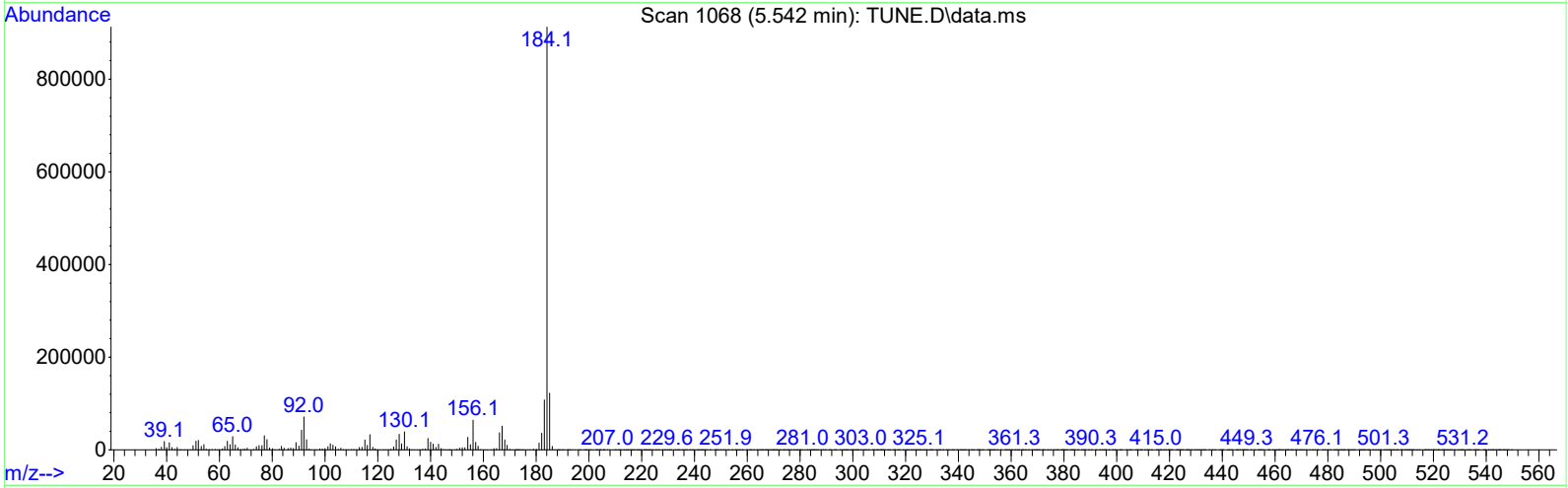
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV118\241025RVTical\
Data File : TUNE.D
Acq On : 25 Oct 2024 03:53 pm
Operator : SV118:dv
Sample : TUNE
Misc : WG1990947,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Oct 25 16:38:42 2024
Quant Method : I:\8270SIM\SV118\241025RVTical\dftppsv118.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 21 14:32:10 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools™ [TUNE]

(3) benzidine (T)

5.542min (-0.023) 68.94

response 701846

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\2024\241025RVTical\
Data File : L10.D
Acq On : 25 Oct 2024 04:43 pm
Operator : SV118:dv
Sample : IL10,32,, #10885 5000 ng/ml
Misc : WG1990947,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:31:59 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:33:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.262	152	273610	4000.000	ng/ml	-0.02
Standard Area 1 = 429824			Recovery = 63.66%			
8) Naphthalene-d8	2.931	136	1052589	4000.000	ng/ml	-0.02
Standard Area 1 = 1574353			Recovery = 66.86%			
17) Acenaphthene-d10	3.909	164	607344	4000.000	ng/ml	-0.01
Standard Area 1 = 863987			Recovery = 70.30%			
22) Phenanthrene-d10	4.740	188	1279022	4000.000	ng/ml	#-0.01
Standard Area 1 = 1755380			Recovery = 72.86%			
31) Chrysene-d12	6.295	240	1289394	4000.000	ng/ml	0.02
Standard Area 1 = 1692718			Recovery = 76.17%			
36) Perylene-d12	7.502	264	1486855	4000.000	ng/ml	0.02
Standard Area 1 = 1795203			Recovery = 82.82%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.662	112	359695	4649.748	ng/ml	-0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 232.49%#			
3) Phenol-d6	2.068	99	453927	4775.295	ng/ml	-0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 238.76%#			
7) Nitrobenzene-d5	2.546	82	309967	5050.754	ng/ml	-0.01
Spiked Amount 1000.000	Range 30 - 130		Recovery = 505.08%#			
13) 2-Fluorobiphenyl	3.530	172	936039	4624.936	ng/ml	-0.01
Spiked Amount 1000.000	Range 30 - 130		Recovery = 462.49%#			
21) 2,4,6-Tribromophenol	4.351	330	148240	5296.959	ng/ml	-0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 264.85%#			
30) 4-Terphenyl-d14	5.653	244	1162453M3	4441.981	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 444.20%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.126	93	396660	4902.845	ng/ml	97
5) n-nitrosodi-n-propylamine	2.467	70	304708	5068.438	ng/ml	97
6) Hexachloroethane	2.526	117	163904	4774.624	ng/ml	86
9) Naphthalene	2.942	128	1252671	4520.926	ng/ml	100
10) Hexachlorobutadiene	3.017	225	226740	4610.515	ng/ml	99
11) 2-Methylnaphthalene	3.322	142	830608	4680.100	ng/ml	98
12) 1-Methylnaphthalene	3.380	142	779655	4721.990	ng/ml	99
14) 2-Chloronaphthalene	3.595	162	845821	4748.437	ng/ml#	87
15) 2,6-Dinitrotoluene	3.789	165	144391	5989.056	ng/ml#	85
16) Acenaphthylene	3.829	152	1326492	5030.460	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L10.D
Acq On : 25 Oct 2024 04:43 pm
Operator : SV118:dv
Sample : IL10,32,, #10885 5000 ng/ml
Misc : WG1990947,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:31:59 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:33:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18) Acenaphthene	3.927	153	908785	4577.210	ng/ml	100
19) 2,4-Dinitrotoluene	4.015	165	197353	5129.873	ng/ml#	79
20) Fluorene	4.212	166	984580	4654.639	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.244	198	84971	5161.084	ng/ml#	64
24) Hexachlorobenzene	4.529	284	374496	4447.260	ng/ml	97
25) Pentachlorophenol	4.635	266	191786	6123.032	ng/ml	100
26) Phenanthrene	4.754	178	1524263	4389.983	ng/ml	100
27) Anthracene	4.781	178	1581006	4639.834	ng/ml	100
28) Fluoranthene	5.429	202	1795438M3	4619.460	ng/ml	
29) Pyrene	5.560	202	1907331	4619.662	ng/ml	99
32) Benzo[a]anthracene	6.286	226	558274	4421.159	ng/ml#	93
33) 3,3'-Dichlorobenzidine	6.270	252	773195	5744.314	ng/ml	99
34) Chrysene	6.313	228	1764051	4535.310	ng/ml#	98
35) Bis(2-ethylhexyl)phtha...	6.309	149	1229993	5483.741	ng/ml	95
37) Benzo[b]fluoranthene	7.131	252	1898726	4953.184	ng/ml	99
38) Benzo[k]fluoranthene	7.157	252	1967616	4841.143	ng/ml	99
39) Benzo[a]pyrene	7.442	252	1799597	5313.795	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.732	276	1925639	6099.008	ng/ml#	87
41) Dibenzo[a,h]anthracene	8.765	278	1827885M6	5687.269	ng/ml	
42) Benzo[g,h,i]perylene	9.077	276	1864958	5634.775	ng/ml#	85

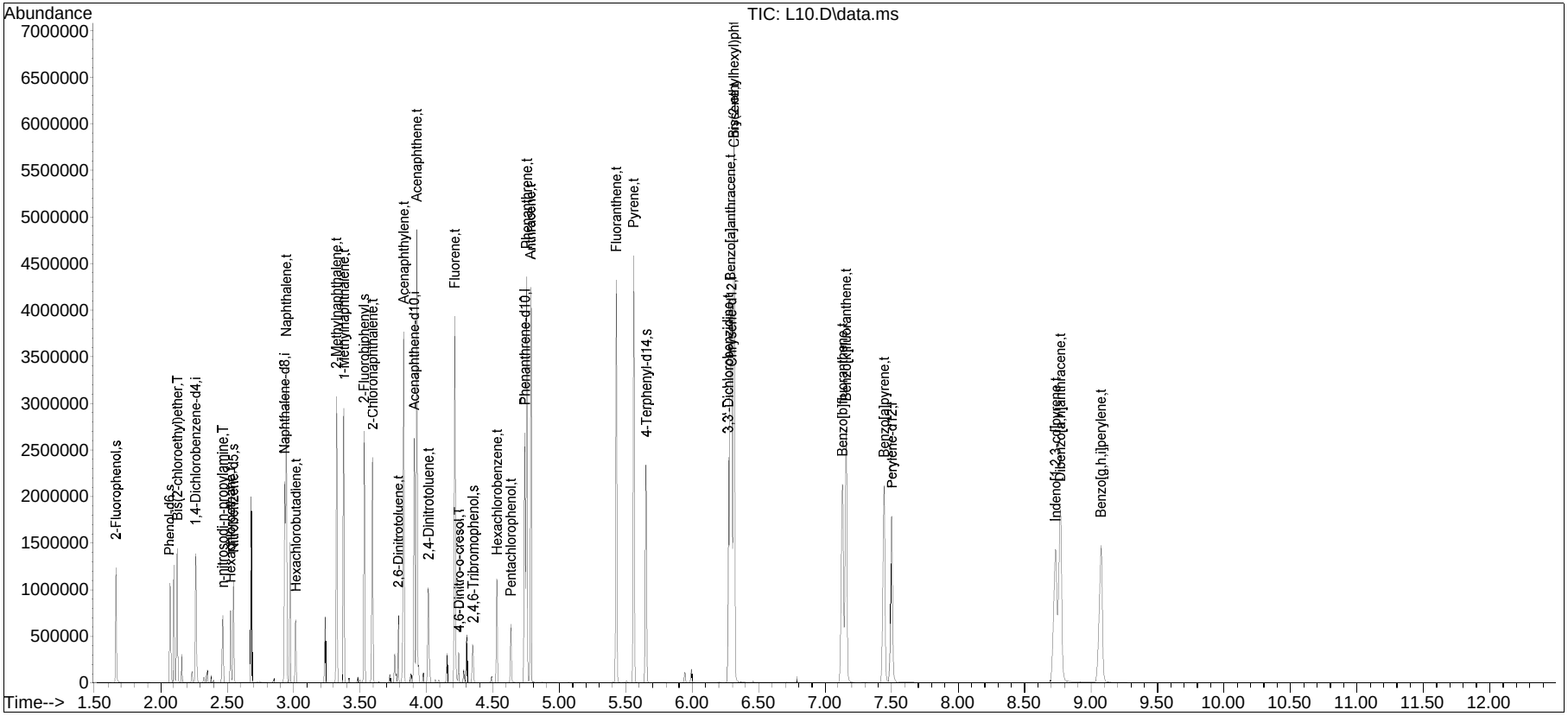
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L10.D
Acq On : 25 Oct 2024 04:43 pm
Operator : SV118:dv
Sample : IL10,32,, #10885 5000 ng/ml
Misc : WG1990947,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:31:59 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:33:31 2024
Response via : Initial Calibration

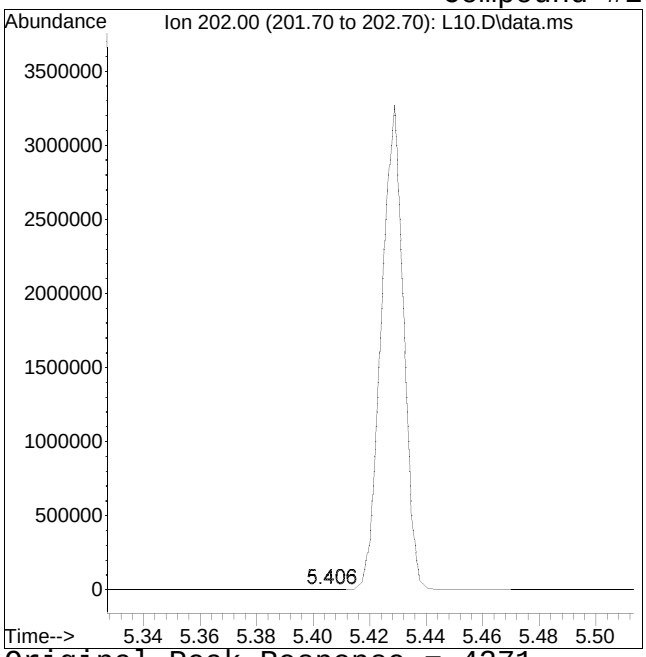
Sub List : Default - All compounds listedical\L8.D•



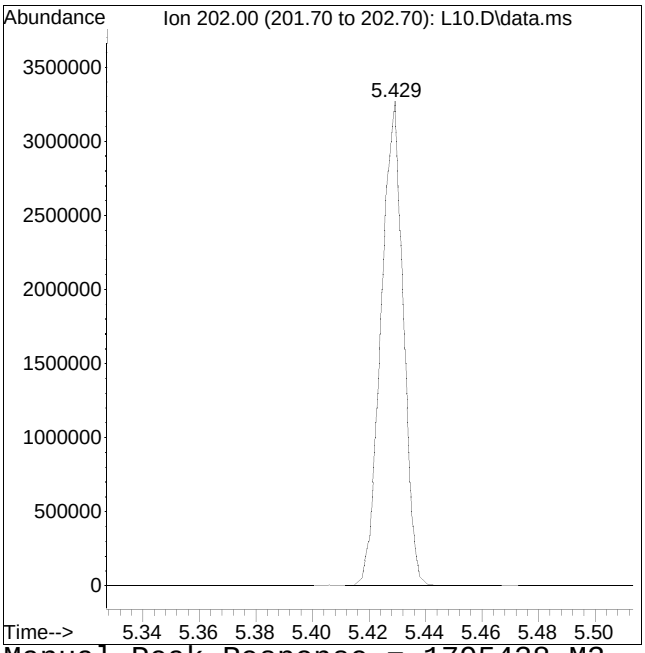
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L10.D Operator : SV118:dv
Date Inj'd : 10/25/2024 4:43 pm Instrument : SV118
Sample : IL10,32,, #10885 5000 ng/mQuant Date : 12/4/2024 11:33 am

Compound #28: Fluoranthene



Original Peak Response = 4271



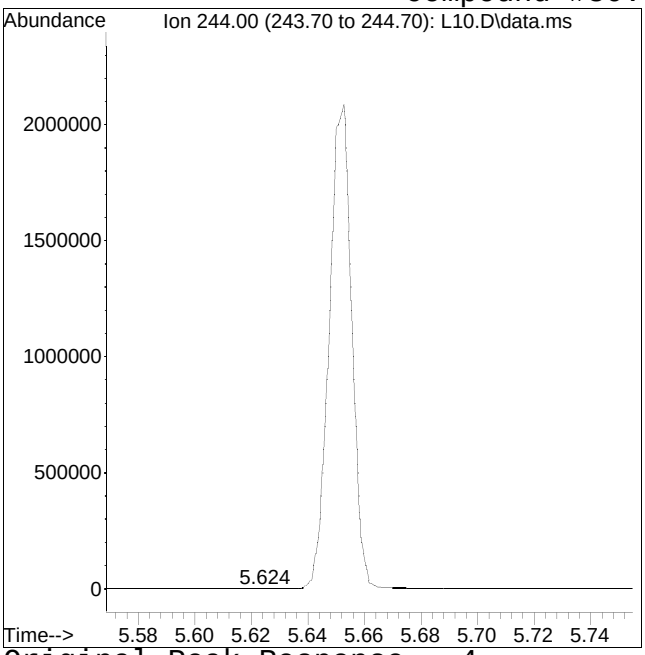
Manual Peak Response = 1795438 M3

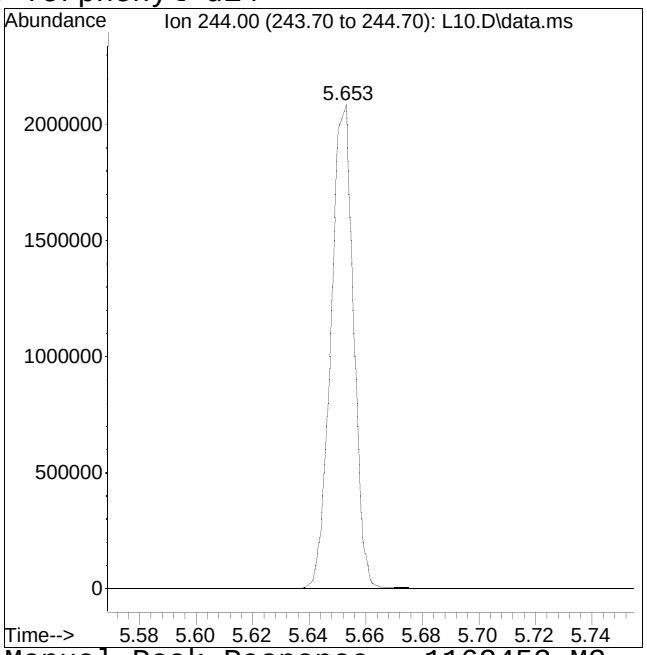
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L10.D Operator : SV118:dv
Date Inj'd : 10/25/2024 4:43 pm Instrument : SV118
Sample : IL10,32,, #10885 5000 ng/mQuant Date : 12/4/2024 11:33 am

Compound #30: 4-Terphenyl-d14



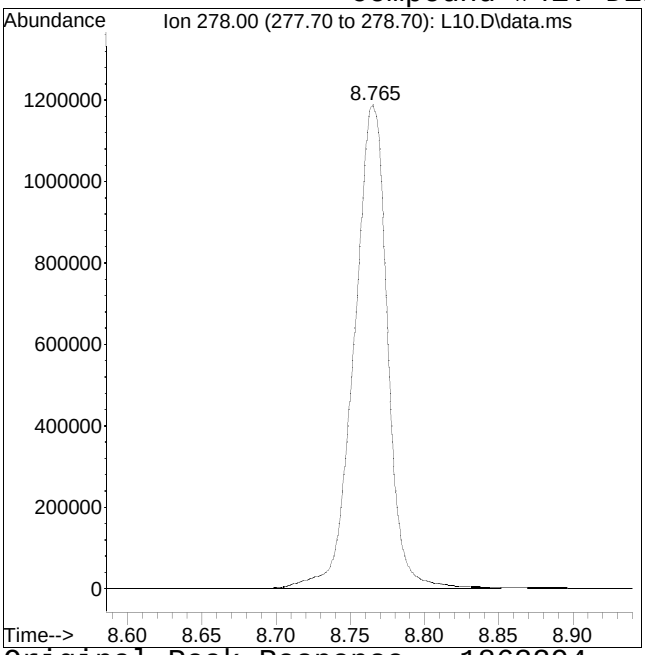


Original Peak Response = 4 Manual Peak Response = 1162453 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

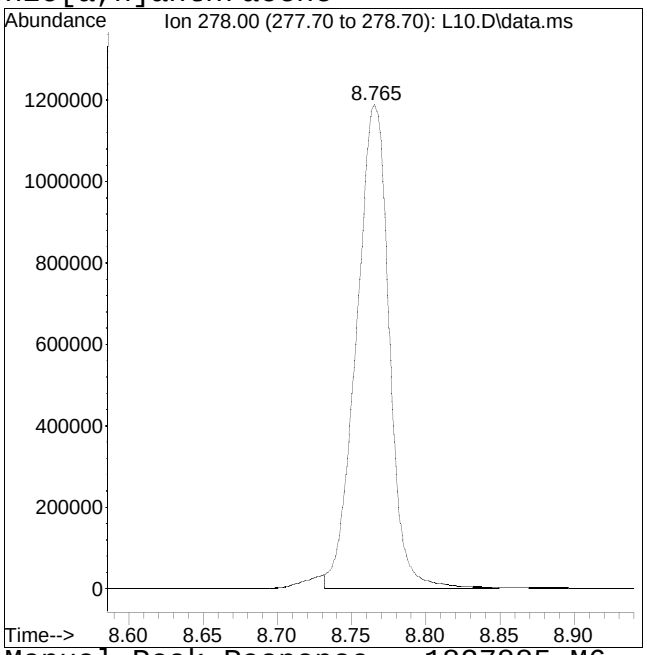
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L10.D Operator : SV118:dv
Date Inj'd : 10/25/2024 4:43 pm Instrument : SV118
Sample : IL10,32,, #10885 5000 ng/mQuant Date : 12/4/2024 11:33 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 1863294



Manual Peak Response = 1827885 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L9.D
Acq On : 25 Oct 2024 05:01 pm
Operator : SV118:dv
Sample : IL9,32,, #10901 2500 ng/ml
Misc : WG1990947,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 04 11:35:35 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:37:09 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	2.276	152	336532	4000.000 ng/ml	0.00
Standard Area 1 = 429824			Recovery = 78.30%		
8) Naphthalene-d8	2.942	136	1251542	4000.000 ng/ml	0.00
Standard Area 1 = 1574353			Recovery = 79.50%		
17) Acenaphthene-d10	3.918	164	686394	4000.000 ng/ml	0.00
Standard Area 1 = 863987			Recovery = 79.44%		
22) Phenanthrene-d10	4.749	188	1394426	4000.000 ng/ml #	0.00
Standard Area 1 = 1755380			Recovery = 79.44%		
31) Chrysene-d12	6.276	240	1286099	4000.000 ng/ml	0.00
Standard Area 1 = 1692718			Recovery = 75.98%		
36) Perylene-d12	7.479	264	1359792	4000.000 ng/ml	0.00
Standard Area 1 = 1795203			Recovery = 75.75%		
System Monitoring Compounds					
2) 2-Fluorophenol	1.673	112	228303	2399.453 ng/ml	-0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 119.97%#		
3) Phenol-d6	2.078	99	284978	2437.424 ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 121.87%#		
7) Nitrobenzene-d5	2.555	82	196948	2609.143 ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 260.91%#		
13) 2-Fluorobiphenyl	3.540	172	575368	2390.952 ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 239.10%#		
21) 2,4,6-Tribromophenol	4.358	330	85764	2711.612 ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 135.58%#		
30) 4-Terphenyl-d14	5.647	244	658149	2306.790 ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 230.68%#		
Target Compounds					Qvalue
4) Bis(2-chloroethyl)ether	2.136	93	250240	2513.542 ng/ml	97
5) n-nitrosodi-n-propylamine	2.476	70	186212	2518.277 ng/ml	97
6) Hexachloroethane	2.534	117	103636	2454.516 ng/ml	86
9) Naphthalene	2.950	128	777443	2359.784 ng/ml	100
10) Hexachlorobutadiene	3.025	225	142833	2442.661 ng/ml	99
11) 2-Methylnaphthalene	3.332	142	512459	2428.463 ng/ml	98
12) 1-Methylnaphthalene	3.387	142	472856	2408.601 ng/ml	99
14) 2-Chloronaphthalene	3.605	162	514081M3	2427.265 ng/ml	
15) 2,6-Dinitrotoluene	3.797	165	81428	2840.570 ng/ml#	85
16) Acenaphthylene	3.838	152	790915	2522.588 ng/ml	99
18) Acenaphthene	3.936	153	537959	2397.453 ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L9.D
Acq On : 25 Oct 2024 05:01 pm
Operator : SV118:dv
Sample : IL9,32,, #10901 2500 ng/ml
Misc : WG1990947,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 04 11:35:35 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:37:09 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.023	165	108035	2497.674	ng/ml#	86
20) Fluorene	4.224	166	581375	2431.938	ng/ml	98
23) 4,6-Dinitro-o-cresol	4.251	198	44195	2474.930	ng/ml#	62
24) Hexachlorobenzene	4.536	284	220214	2398.683	ng/ml	98
25) Pentachlorophenol	4.645	266	105374M1	3085.785	ng/ml	
26) Phenanthrene	4.763	178	889206	2349.026	ng/ml	100
27) Anthracene	4.791	178	908698	2446.082	ng/ml	100
28) Fluoranthene	5.431	202	999929	2359.786	ng/ml#	90
29) Pyrene	5.559	202	1068591	2373.986	ng/ml	99
32) Benzo[a]anthracene	6.268	226	290300	2304.873	ng/ml#	95
33) 3,3'-Dichlorobenzidine	6.251	252	389909	2904.181	ng/ml	99
34) Chrysene	6.292	228	941051	2425.606	ng/ml#	99
35) Bis(2-ethylhexyl)phtha...	6.287	149	630760	2819.354	ng/ml	95
37) Benzo[b]fluoranthene	7.106	252	929826	2652.284	ng/ml	99
38) Benzo[k]fluoranthene	7.132	252	961896	2587.807	ng/ml	100
39) Benzo[a]pyrene	7.415	252	849519	2742.829	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.707	276	833331	2886.011	ng/ml#	86
41) Dibenzo[a,h]anthracene	8.742	278	817960M6	2782.807	ng/ml	
42) Benzo[g,h,i]perylene	9.052	276	814764	2691.755	ng/ml#	86

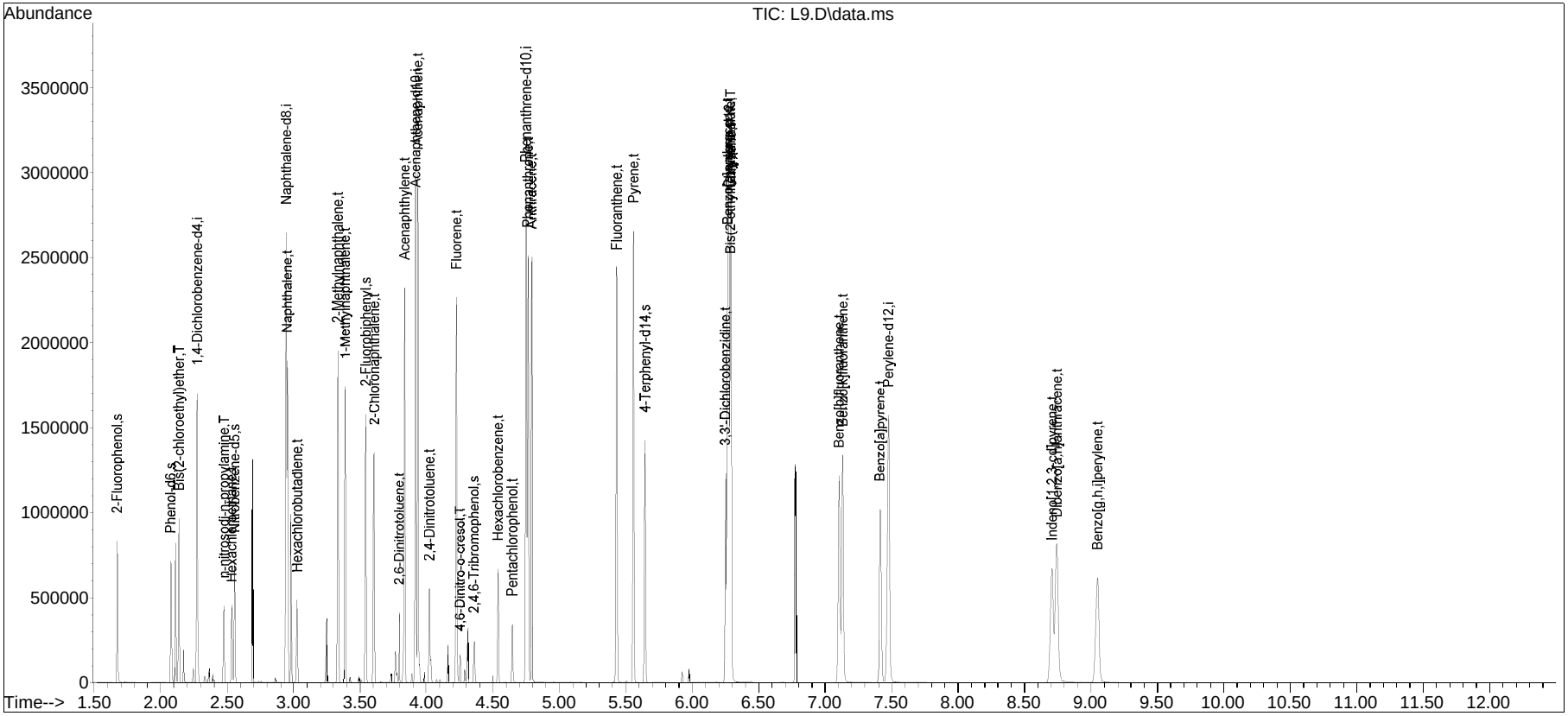
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L9.D
Acq On : 25 Oct 2024 05:01 pm
Operator : SV118:dv
Sample : IL9,32,, #10901 2500 ng/ml
Misc : WG1990947,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 04 11:35:35 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:37:09 2024
Response via : Initial Calibration

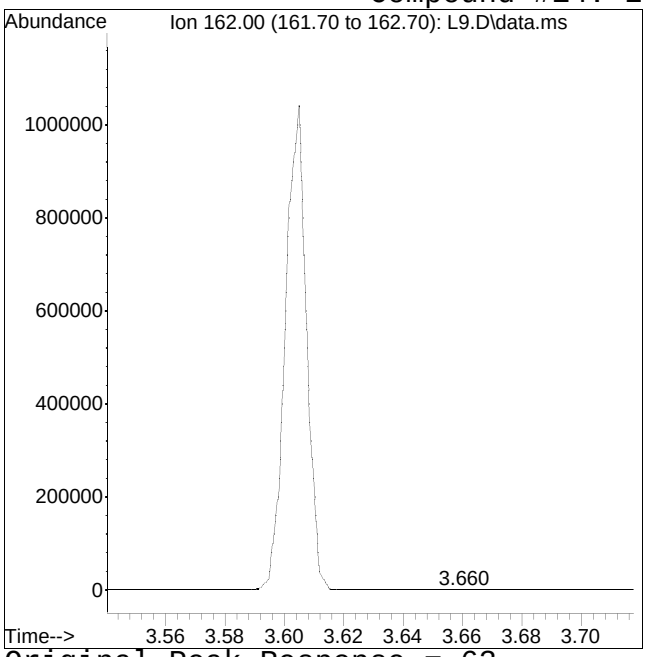
Sub List : Default - All compounds listedical\L8.D•

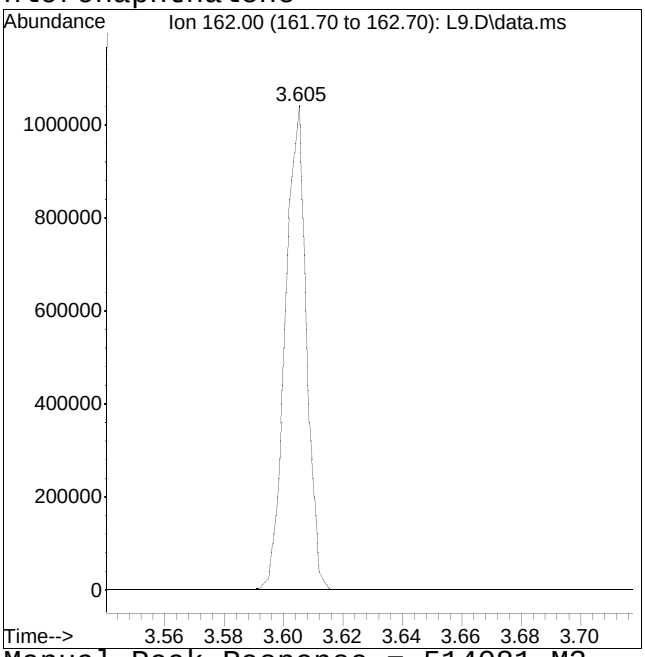


Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L9.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:01 pm Instrument : SV118
Sample : IL9,32,, #10901 2500 ng/mlQuant Date : 12/4/2024 11:37 am

Compound #14: 2-Chloronaphthalene





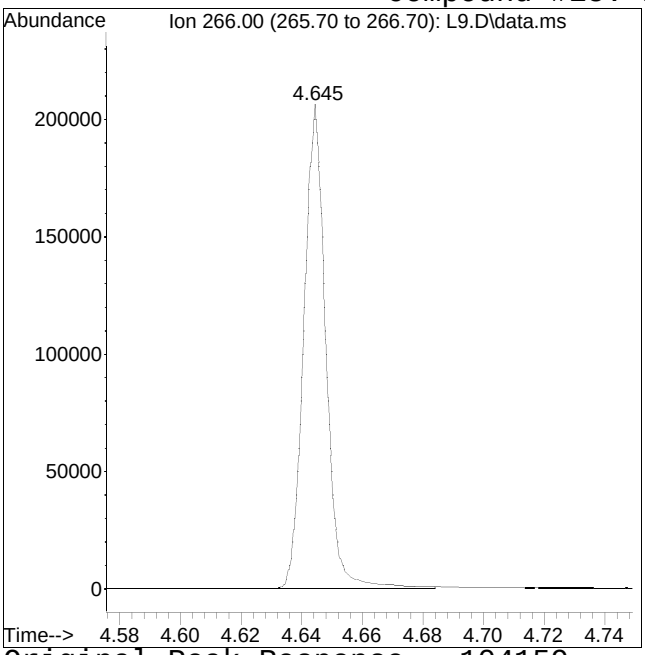
Original Peak Response = 63 Manual Peak Response = 514081 M3

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.

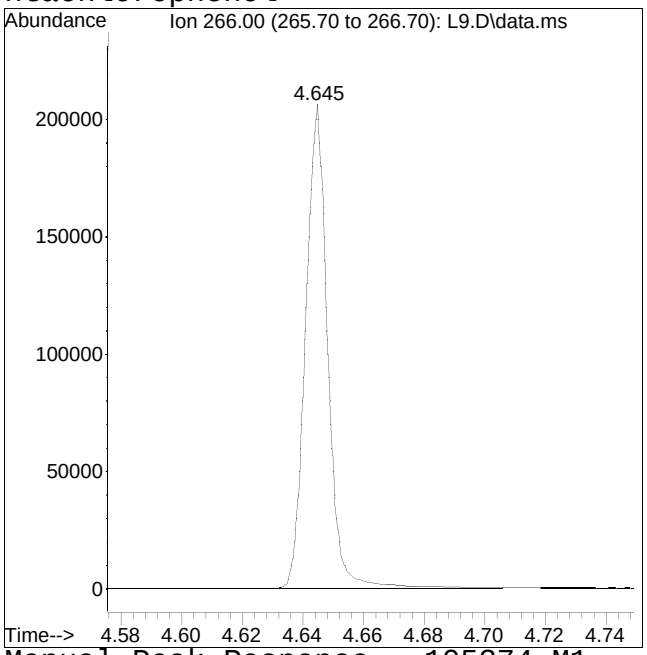
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410Q
Data File : L9.D
Date Inj'd : 10/25/2024 5:01 pm
Sample : IL9,32,, #10901 2500 ng/ml
Method : SIM-RVT_241025sv118.M
Operator : SV118:dv
Instrument : SV118
Quant Date : 12/4/2024 11:37 am

Compound #25: Pentachlorophenol



Original Peak Response = 104159



Manual Peak Response = 105374 M1

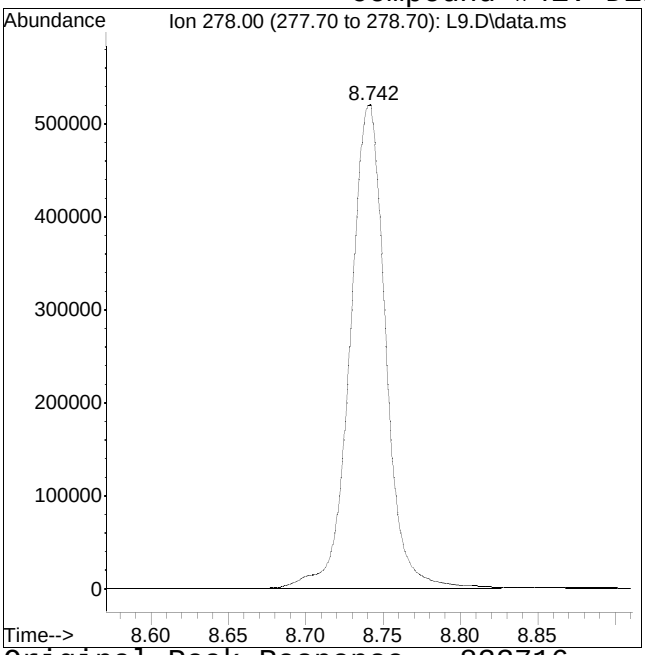
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

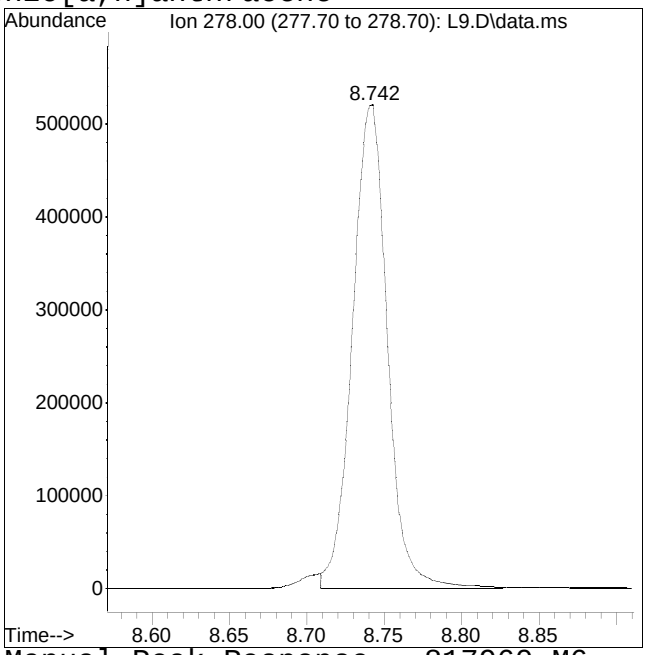
Data Path : I:\8270SIM\SV118\2024\2410Q
Data File : L9.D
Date Inj'd : 10/25/2024 5:01 pm
Sample : IL9,32,, #10901 2500 ng/ml

Method : SIM-RVT_241025sv118.M
Operator : SV118:dv
Instrument : SV118
Quant Date : 12/4/2024 11:37 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 833716



Manual Peak Response = 817960 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L8.D
Acq On : 25 Oct 2024 05:19 pm
Operator : SV118:dv
Sample : IL8,32,, #10888 1000 ng/ml
Misc : WG1990947,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 04 11:33:01 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:34:26 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.279	152	429824	4000.000	ng/ml	-0.05
Standard Area 1 = 429824			Recovery = 100.00%			
8) Naphthalene-d8	2.946	136	1574353	4000.000	ng/ml	-0.05
Standard Area 1 = 1574353			Recovery = 100.00%			
17) Acenaphthene-d10	3.922	164	863987	4000.000	ng/ml	-0.05
Standard Area 1 = 863987			Recovery = 100.00%			
22) Phenanthrene-d10	4.753	188	1755380M3	4000.000	ng/ml	-0.06
Standard Area 1 = 1755380			Recovery = 100.00%			
31) Chrysene-d12	6.276	240	1692718M2	4000.000	ng/ml	-0.15
Standard Area 1 = 1692718			Recovery = 100.00%			
36) Perylene-d12	7.483	264	1795203M2	4000.000	ng/ml	-0.24
Standard Area 1 = 1795203			Recovery = 100.00%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.683	112	119014	979.342	ng/ml	-0.05
Spiked Amount 2000.000	Range 15 - 110		Recovery = 48.97%			
3) Phenol-d6	2.084	99	148408	993.832	ng/ml	-0.05
Spiked Amount 2000.000	Range 15 - 110		Recovery = 49.69%			
7) Nitrobenzene-d5	2.560	82	101098	1048.636	ng/ml	-0.05
Spiked Amount 1000.000	Range 30 - 130		Recovery = 104.86%			
13) 2-Fluorobiphenyl	3.544	172	294957	974.377	ng/ml	-0.05
Spiked Amount 1000.000	Range 30 - 130		Recovery = 97.44%			
21) 2,4,6-Tribromophenol	4.362	330	42117	1057.904	ng/ml	-0.06
Spiked Amount 2000.000	Range 15 - 110		Recovery = 52.90%			
30) 4-Terphenyl-d14	5.649	244	346598	965.015	ng/ml	-0.10
Spiked Amount 1000.000	Range 30 - 130		Recovery = 96.50%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.143	93	129762	1019.044	ng/ml	96
5) n-nitrosodi-n-propylamine	2.479	70	94011	995.429	ng/ml	97
6) Hexachloroethane	2.540	117	53876	999.048	ng/ml	85
9) Naphthalene	2.954	128	402557	971.347	ng/ml	100
10) Hexachlorobutadiene	3.029	225	72281M3	982.657	ng/ml	
11) 2-Methylnaphthalene	3.336	142	263115	991.200	ng/ml	98
12) 1-Methylnaphthalene	3.394	142	243234	984.926	ng/ml	99
14) 2-Chloronaphthalene	3.608	162	264846	994.082	ng/ml	88
15) 2,6-Dinitrotoluene	3.799	165	38000	1053.801	ng/ml#	84
16) Acenaphthylene	3.840	152	403084	1022.010	ng/ml	99
18) Acenaphthene	3.938	153	274294	971.144	ng/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L8.D
Acq On : 25 Oct 2024 05:19 pm
Operator : SV118:dv
Sample : IL8,32,, #10888 1000 ng/ml
Misc : WG1990947,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 04 11:33:01 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:34:26 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.024	165	49929	932.864	ng/ml#	85
20) Fluorene	4.224	166	299762	996.183	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.251	198	20506	927.565	ng/ml#	78
24) Hexachlorobenzene	4.540	284	113536	982.394	ng/ml	98
25) Pentachlorophenol	4.646	266	48114M3	1119.252	ng/ml	
26) Phenanthrene	4.765	178	458722M3	962.630	ng/ml	
27) Anthracene	4.792	178	467014	998.632	ng/ml	99
28) Fluoranthene	5.431	202	526686	987.369	ng/ml#	91
29) Pyrene	5.559	202	558873	986.289	ng/ml	99
32) Benzo[a]anthracene	6.267	226	151578M4	914.378	ng/ml	
33) 3,3'-Dichlorobenzidine	6.251	252	199371	1128.268	ng/ml	99
34) Chrysene	6.292	228	504754M4	988.500	ng/ml	
35) Bis(2-ethylhexyl)phtha...	6.287	149	312893M2	1062.603	ng/ml	
37) Benzo[b]fluoranthene	7.106	252	478381M3	1033.597	ng/ml	
38) Benzo[k]fluoranthene	7.132	252	515928M1	1051.361	ng/ml	
39) Benzo[a]pyrene	7.417	252	438734M2	1072.966	ng/ml	
40) Indeno[1,2,3-cd]pyrene	8.704	276	431085M3	1130.843	ng/ml	
41) Dibenzo[a,h]anthracene	8.740	278	423760M2	1092.018	ng/ml	
42) Benzo[g,h,i]perylene	9.051	276	422562M2	1057.433	ng/ml	

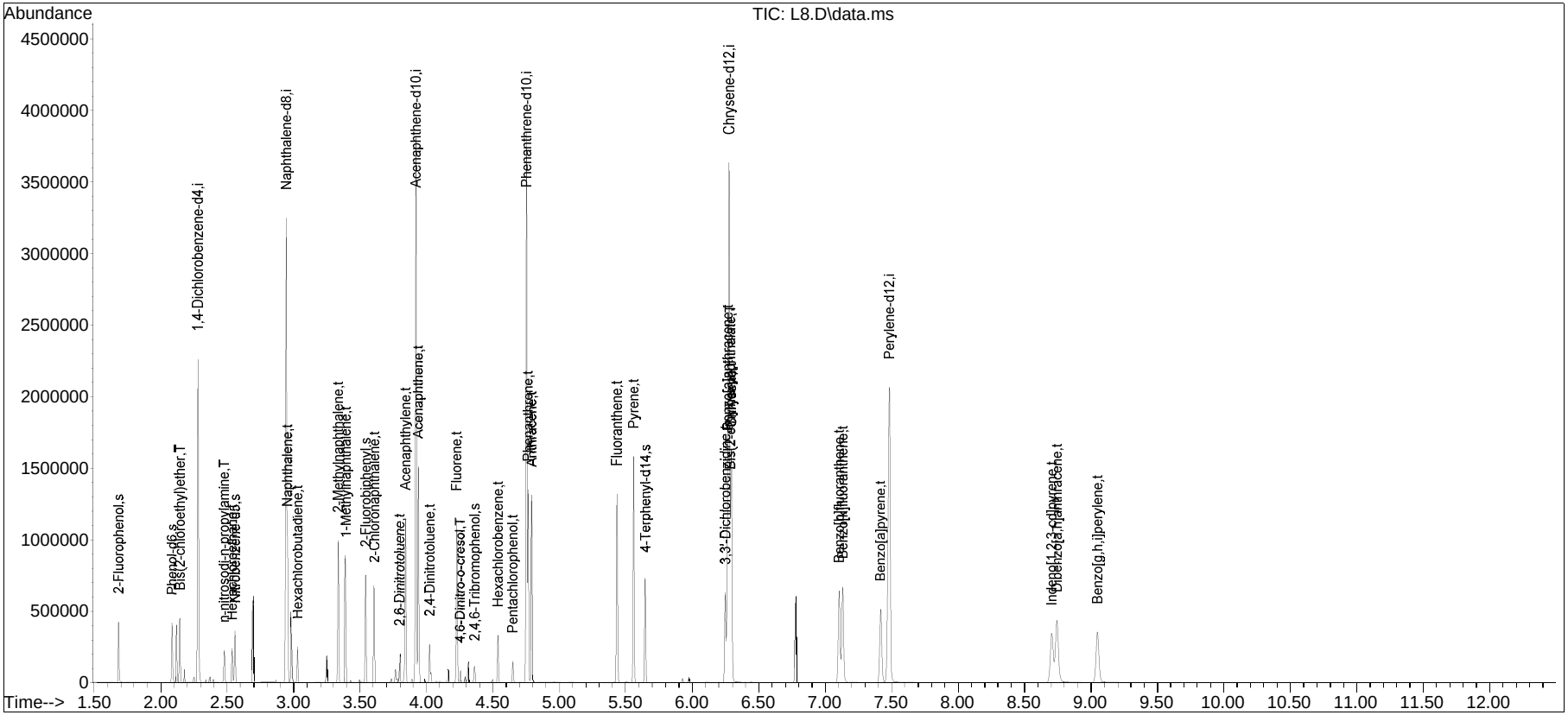
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L8.D
Acq On : 25 Oct 2024 05:19 pm
Operator : SV118:dv
Sample : IL8,32,, #10888 1000 ng/ml
Misc : WG1990947,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 04 11:33:01 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:34:26 2024
Response via : Initial Calibration

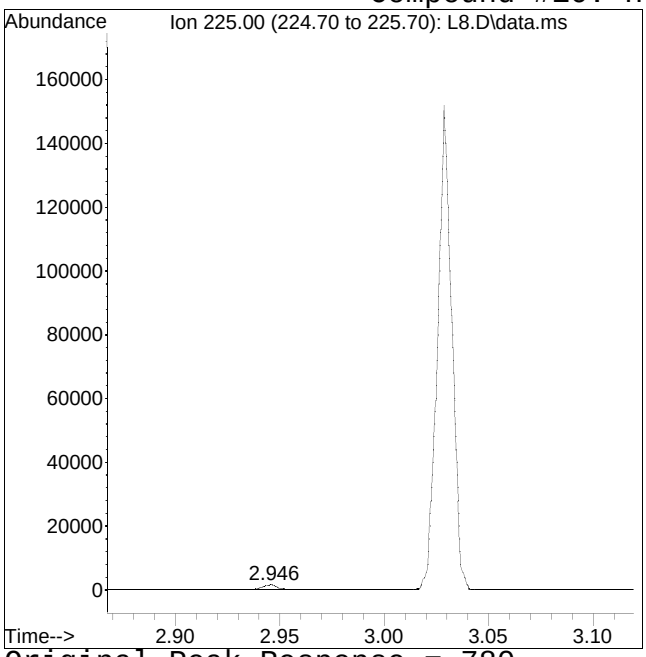
Sub List : Default - All compounds listedical\L8.D•



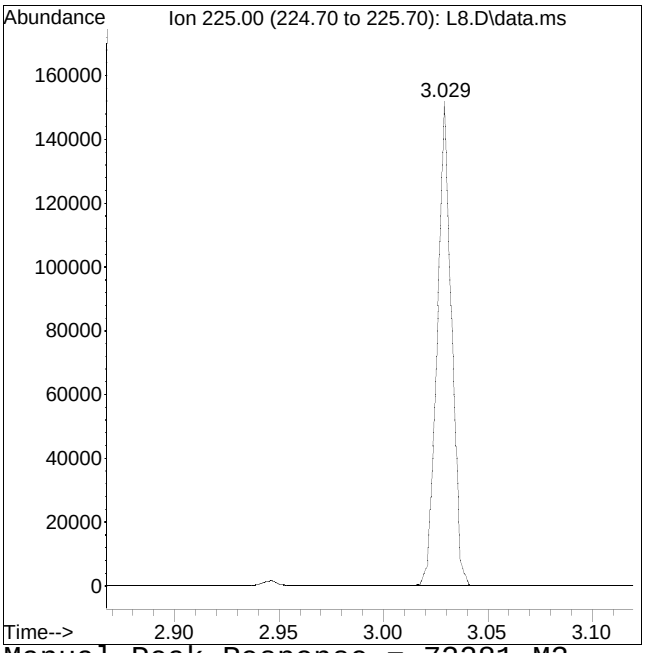
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L8.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:19 pm Instrument : SV118
Sample : IL8,32,, #10888 1000 ng/mlQuant Date : 12/4/2024 11:34 am

Compound #10: Hexachlorobutadiene



Original Peak Response = 780



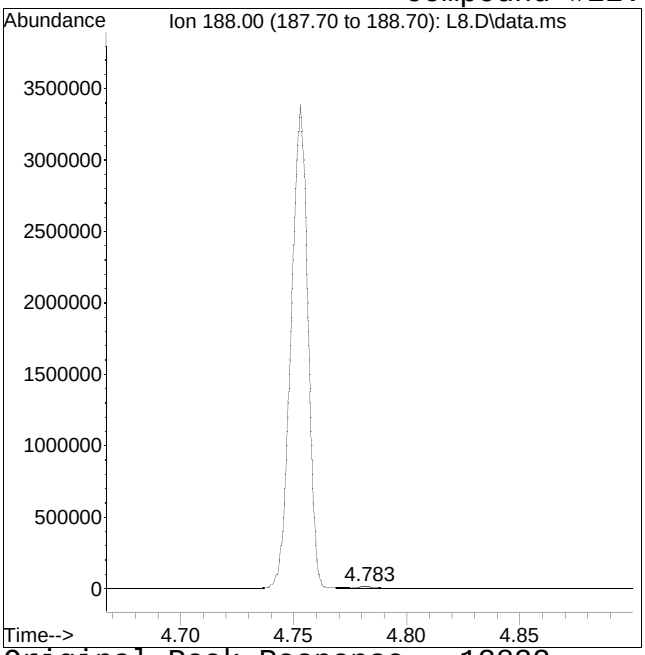
Manual Peak Response = 72281 M3

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.

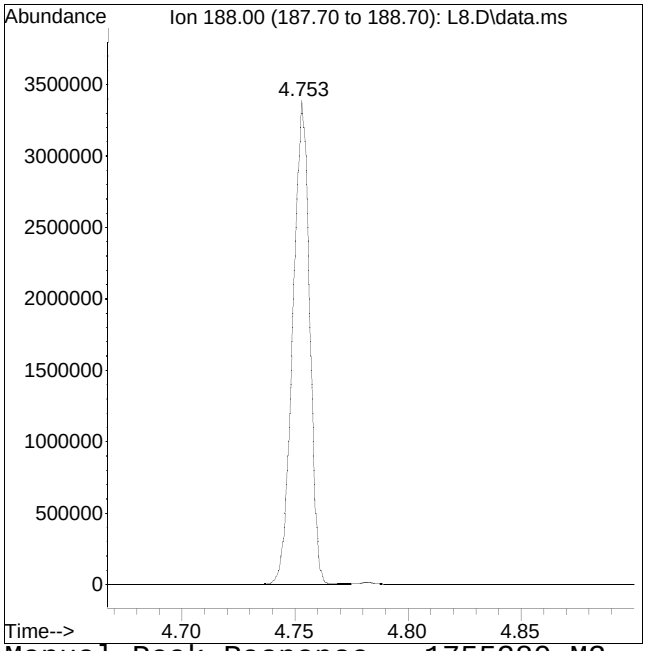
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410Q
Data File : L8.D
Date Inj'd : 10/25/2024 5:19 pm
Sample : IL8,32,, #10888 1000 ng/ml
Method : SIM-RVT_241025sv118.M
Operator : SV118:dv
Instrument : SV118
Quant Date : 12/4/2024 11:34 am

Compound #22: Phenanthrene-d10



Original Peak Response = 12832



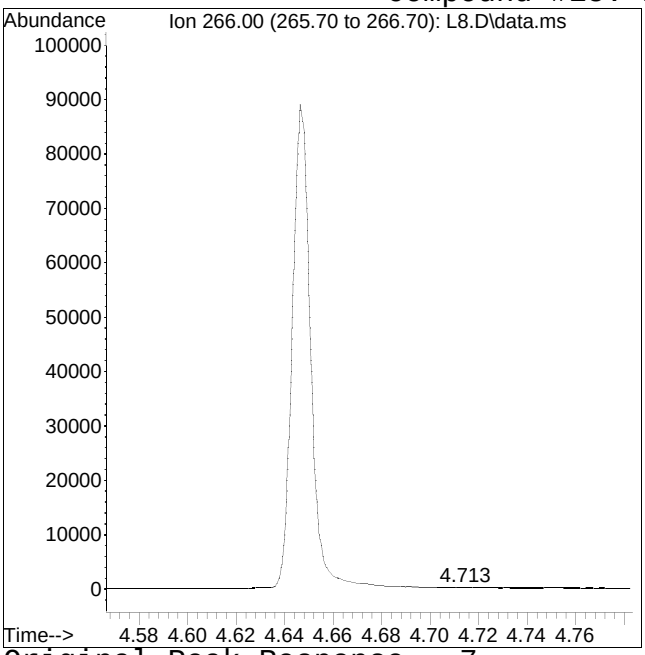
Manual Peak Response = 1755380 M3

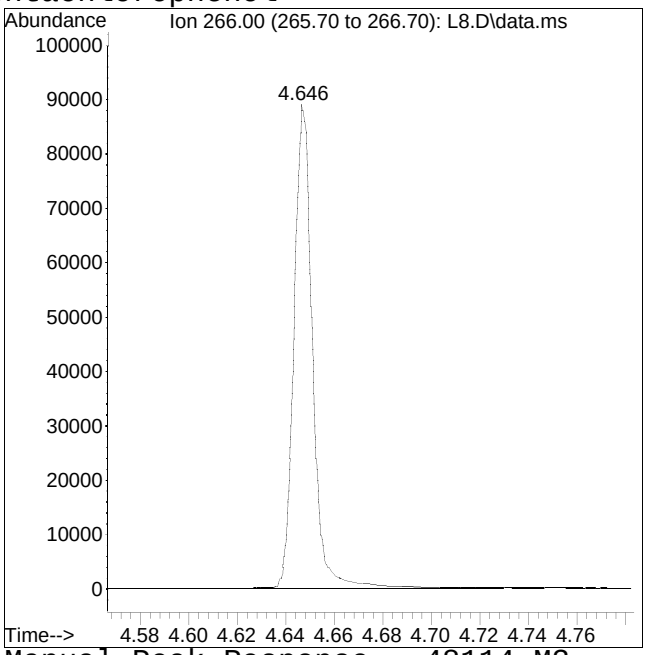
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L8.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:19 pm Instrument : SV118
Sample : IL8,32,, #10888 1000 ng/mlQuant Date : 12/4/2024 11:34 am

Compound #25: Pentachlorophenol



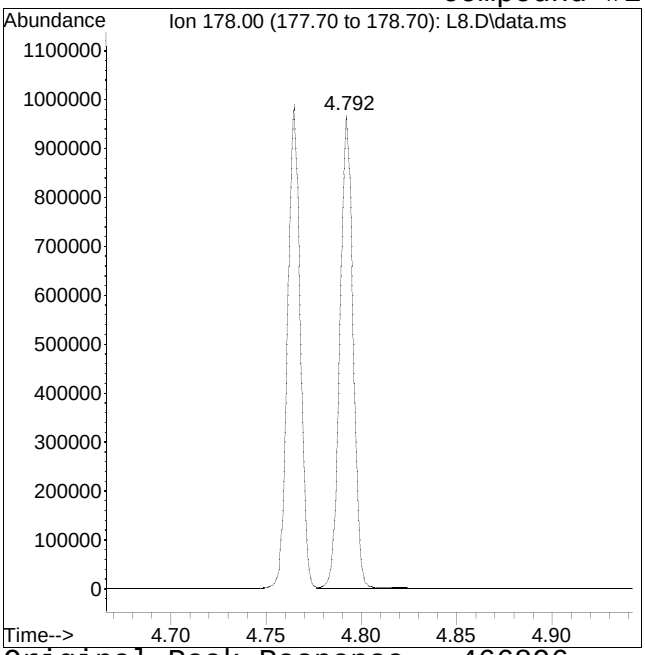


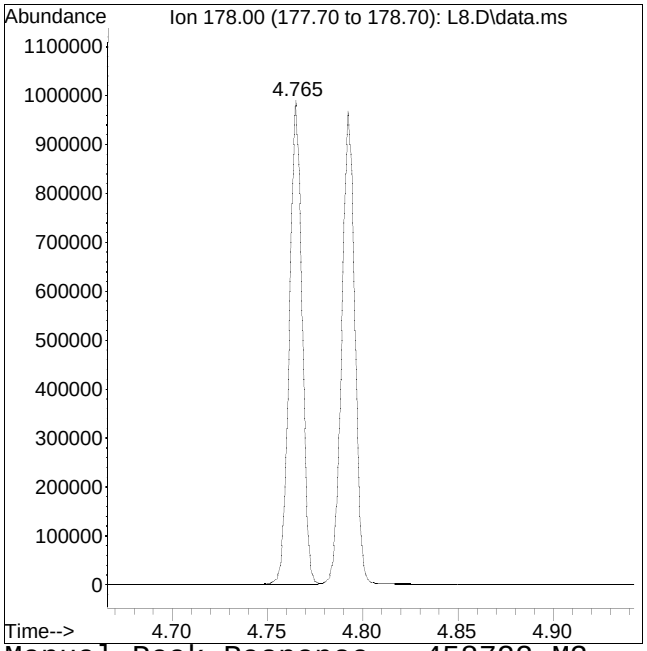
Original Peak Response = 7 Manual Peak Response = 48114 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L8.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:19 pm Instrument : SV118
Sample : IL8,32,, #10888 1000 ng/mlQuant Date : 12/4/2024 11:34 am

Compound #26: Phenanthrene



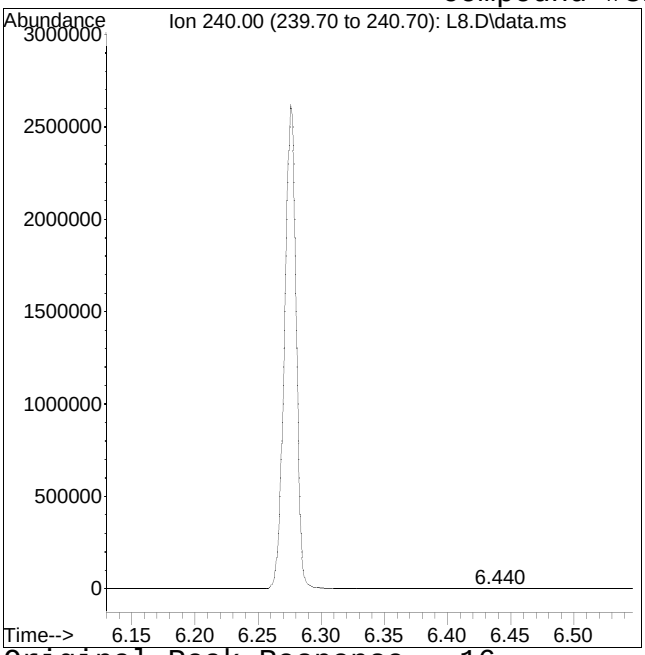


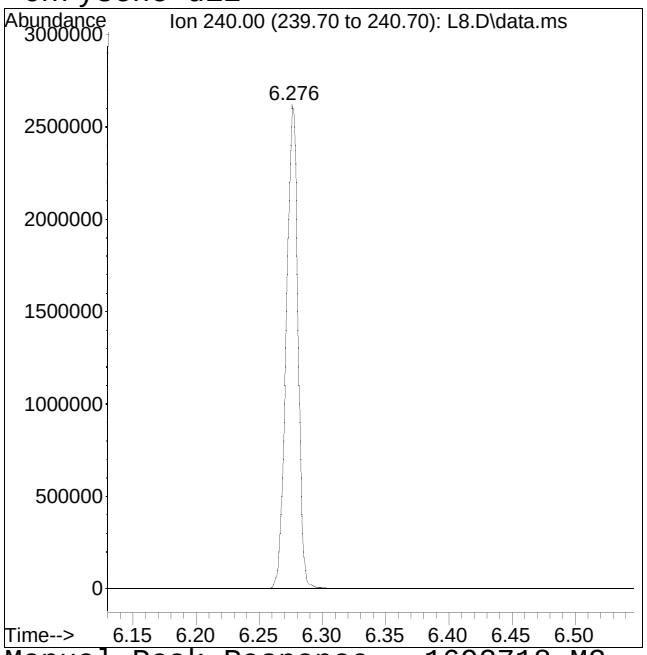
Original Peak Response = 466896 Manual Peak Response = 458722 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L8.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:19 pm Instrument : SV118
Sample : IL8,32,, #10888 1000 ng/mlQuant Date : 12/4/2024 11:34 am

Compound #31: Chrysene-d12



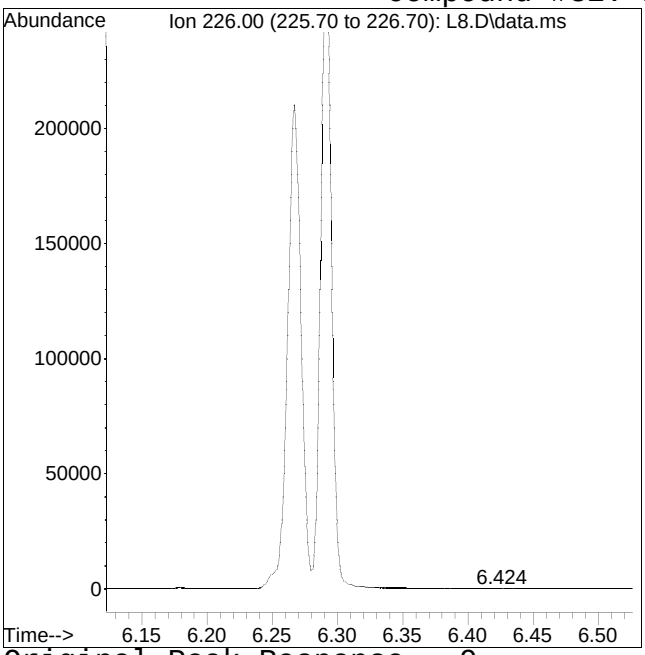


Original Peak Response = 16 Manual Peak Response = 1692718 M2
M2 = Peak not found by automatic integration algorithm.

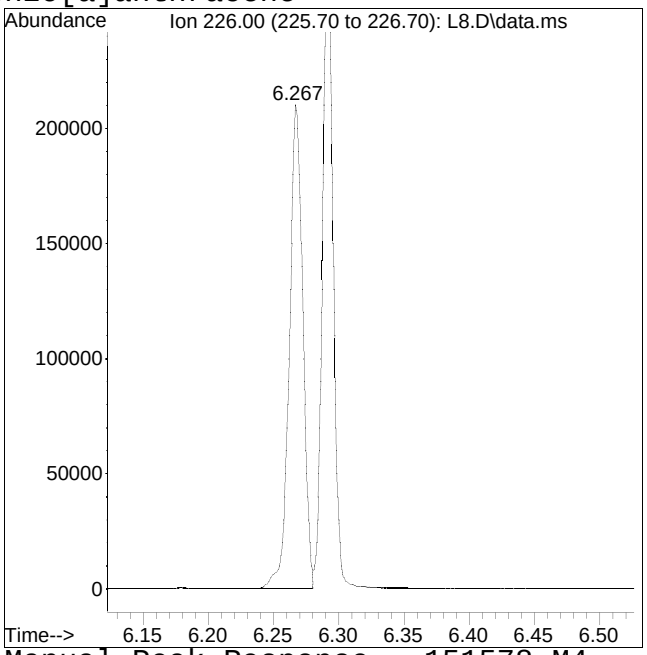
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L8.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:19 pm Instrument : SV118
Sample : IL8,32,, #10888 1000 ng/mlQuant Date : 12/4/2024 11:34 am

Compound #32: Benzo[a]anthracene



Original Peak Response = 9



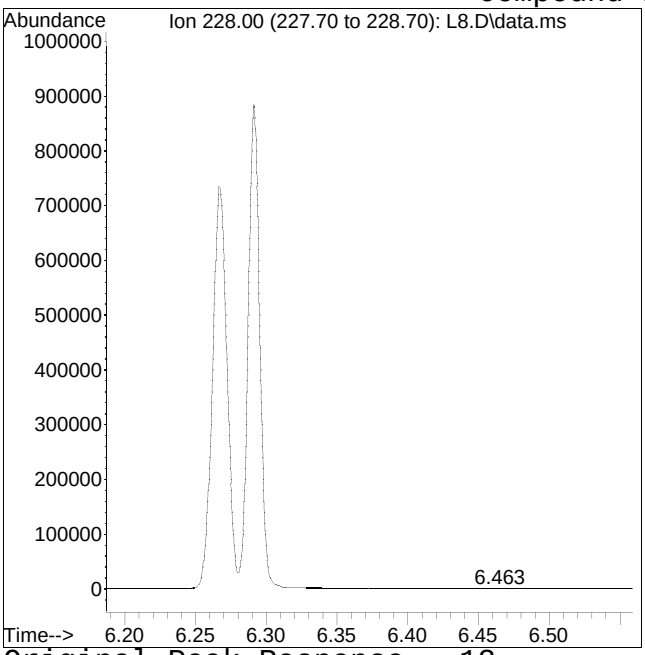
Manual Peak Response = 151578 M4

M4 = Poor automated baseline construction.

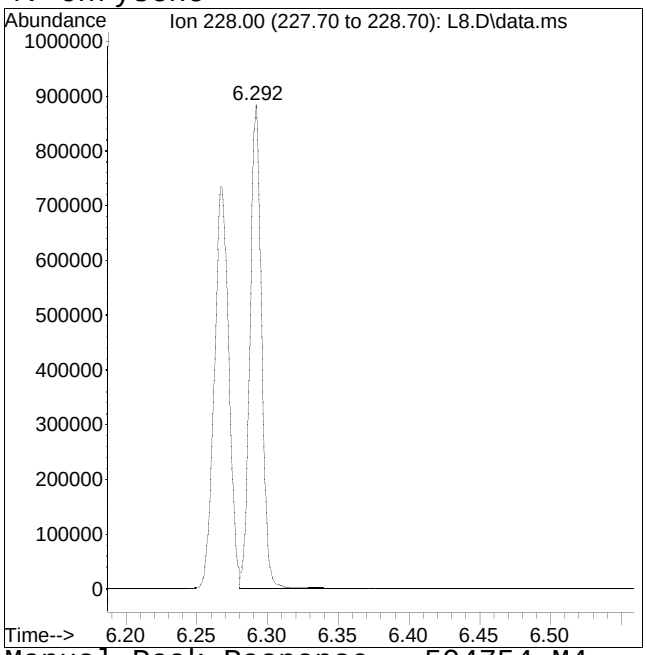
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L8.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:19 pm Instrument : SV118
Sample : IL8,32,, #10888 1000 ng/mlQuant Date : 12/4/2024 11:34 am

Compound #34: Chrysene



Original Peak Response = 12



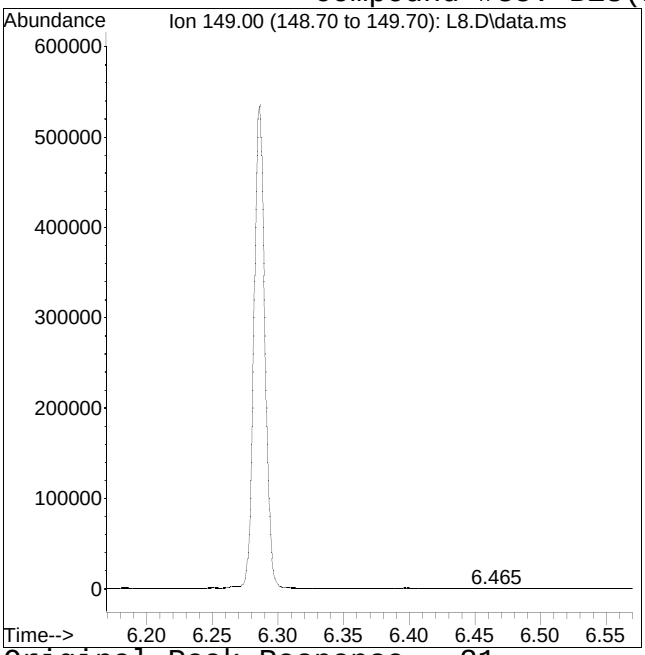
Manual Peak Response = 504754 M4

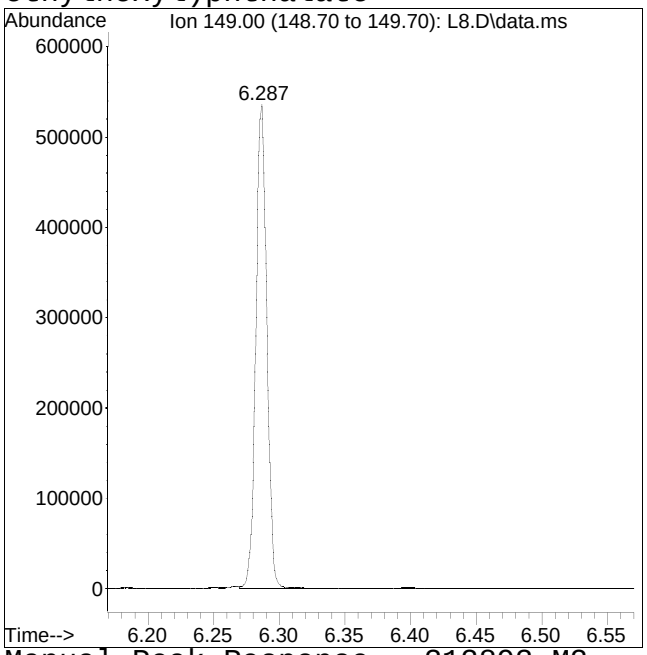
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L8.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:19 pm Instrument : SV118
Sample : IL8,32,, #10888 1000 ng/mlQuant Date : 12/4/2024 11:34 am

Compound #35: Bis(2-ethylhexyl)phthalate



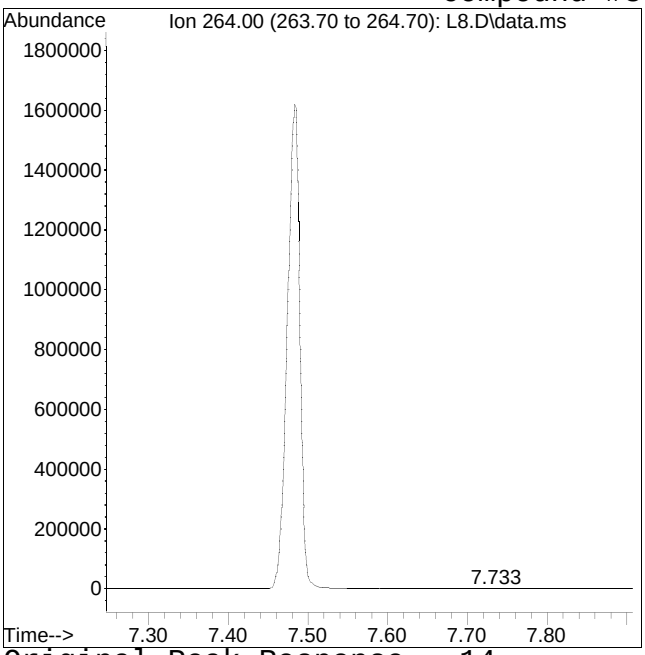


Original Peak Response = 21 Manual Peak Response = 312893 M2
M2 = Peak not found by automatic integration algorithm.

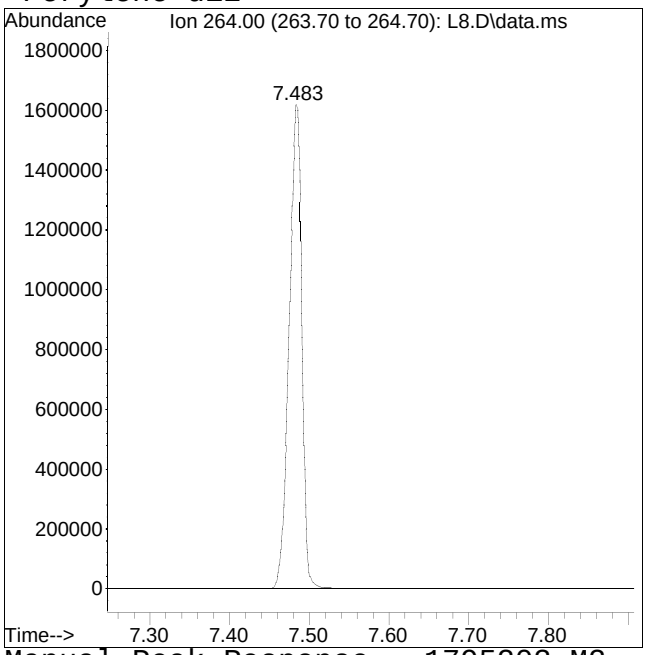
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L8.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:19 pm Instrument : SV118
Sample : IL8,32,, #10888 1000 ng/mlQuant Date : 12/4/2024 11:34 am

Compound #36: Perylene-d12



Original Peak Response = 14



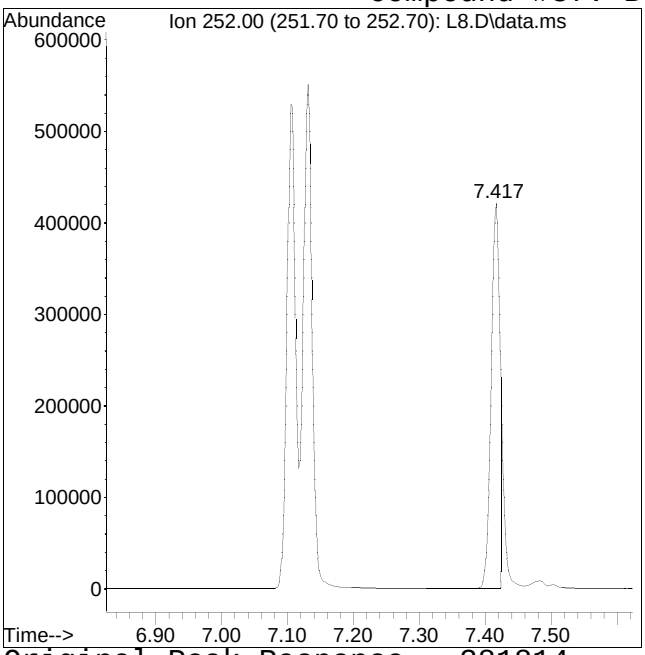
Manual Peak Response = 1795203 M2

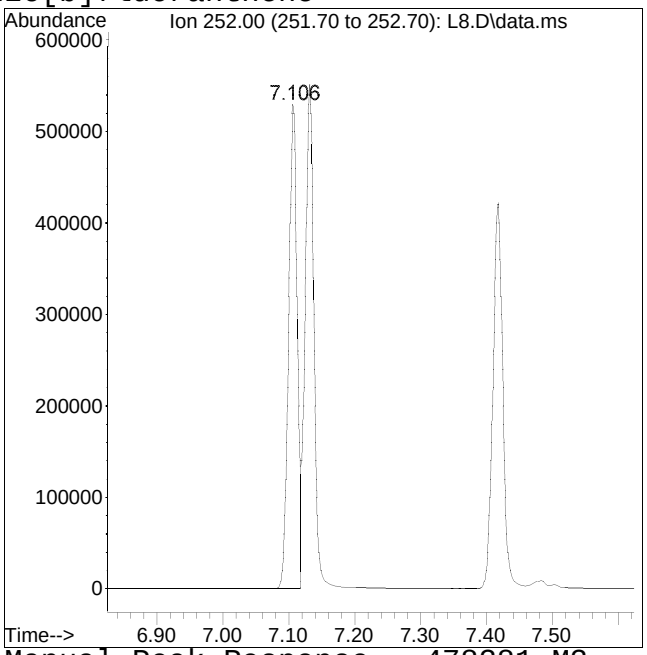
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L8.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:19 pm Instrument : SV118
Sample : IL8,32,, #10888 1000 ng/mlQuant Date : 12/4/2024 11:34 am

Compound #37: Benzo[b]fluoranthene





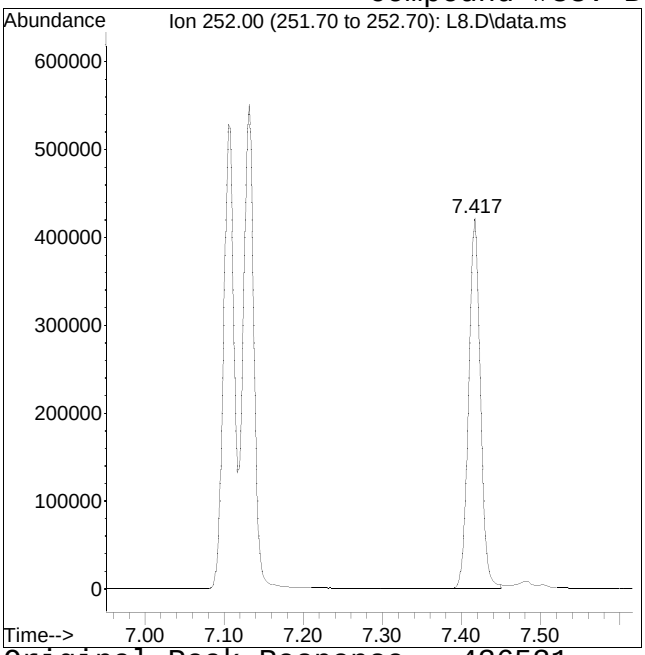
Original Peak Response = 381814 Manual Peak Response = 478381 M3

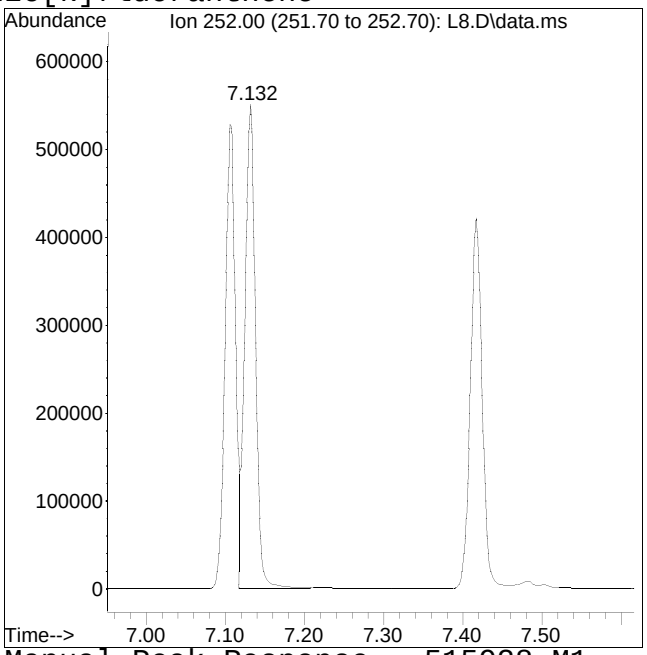
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410Q
Data File : L8.D
Date Inj'd : 10/25/2024 5:19 pm
Sample : IL8,32,, #10888 1000 ng/ml
Method : SIM-RVT_241025sv118.M
Operator : SV118:dv
Instrument : SV118
Quant Date : 12/4/2024 11:34 am

Compound #38: Benzo[k]fluoranthene





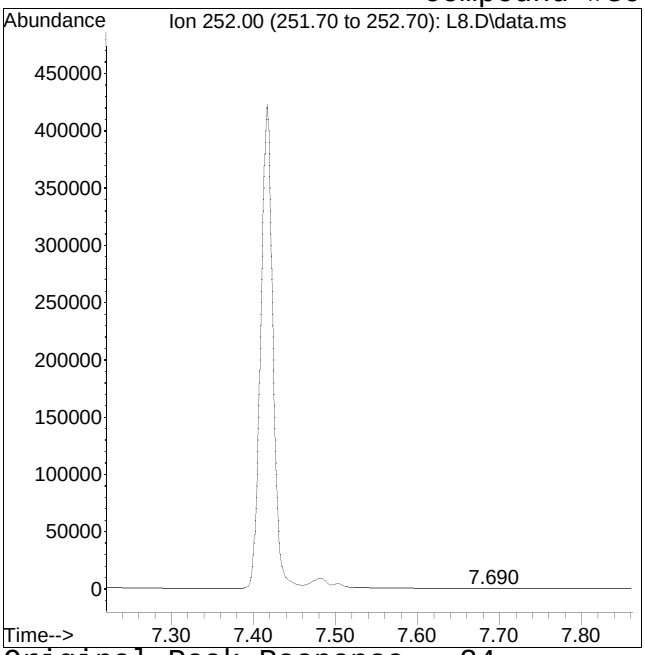
Original Peak Response = 436531 Manual Peak Response = 515928 M1

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

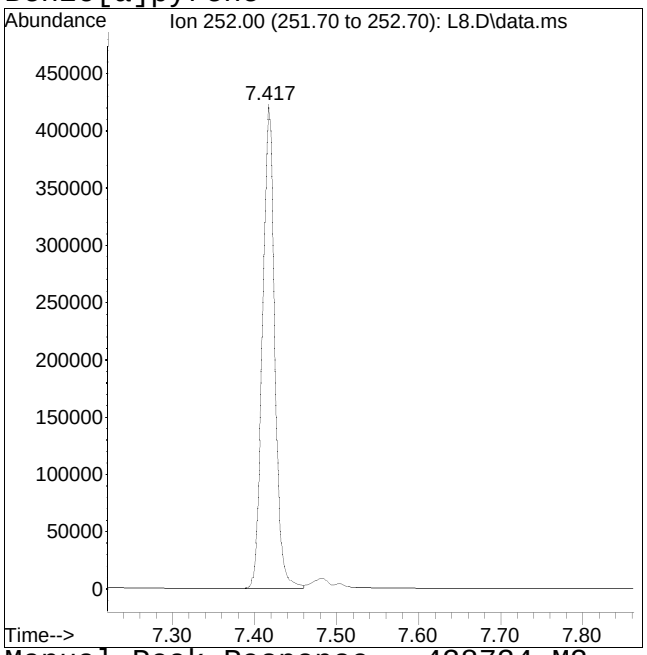
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L8.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:19 pm Instrument : SV118
Sample : IL8,32,, #10888 1000 ng/mlQuant Date : 12/4/2024 11:34 am

Compound #39: Benzo[a]pyrene



Original Peak Response = 24



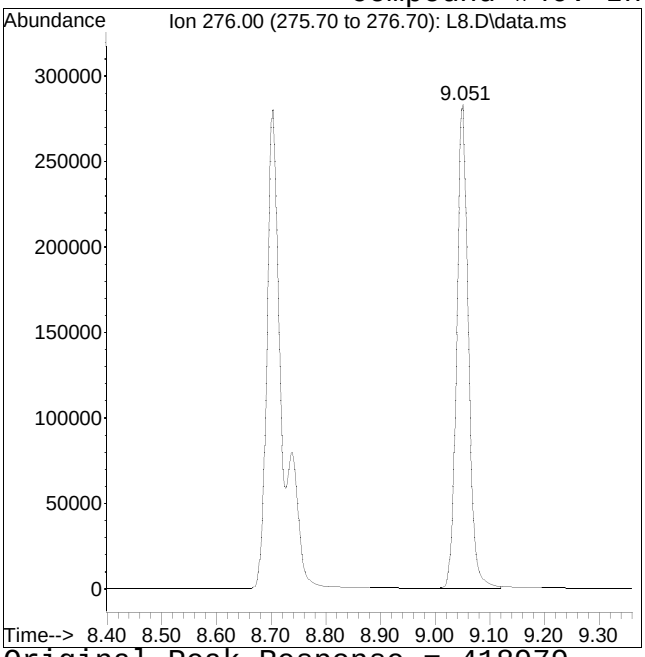
Manual Peak Response = 438734 M2

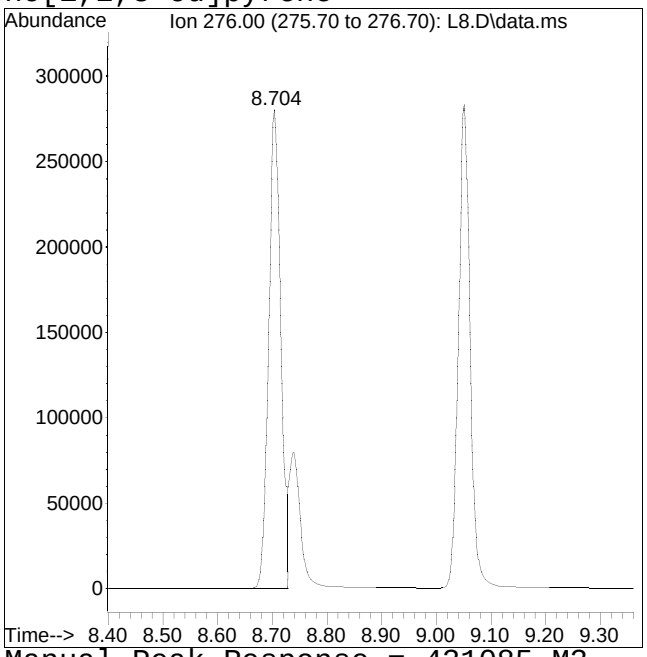
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L8.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:19 pm Instrument : SV118
Sample : IL8,32,, #10888 1000 ng/mlQuant Date : 12/4/2024 11:34 am

Compound #40: Indeno[1,2,3-cd]pyrene



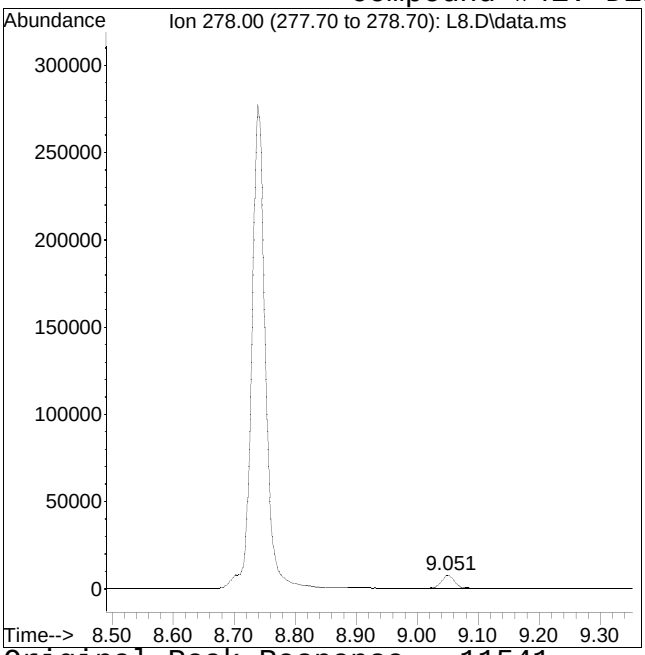


Original Peak Response = 418979 Manual Peak Response = 431085 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

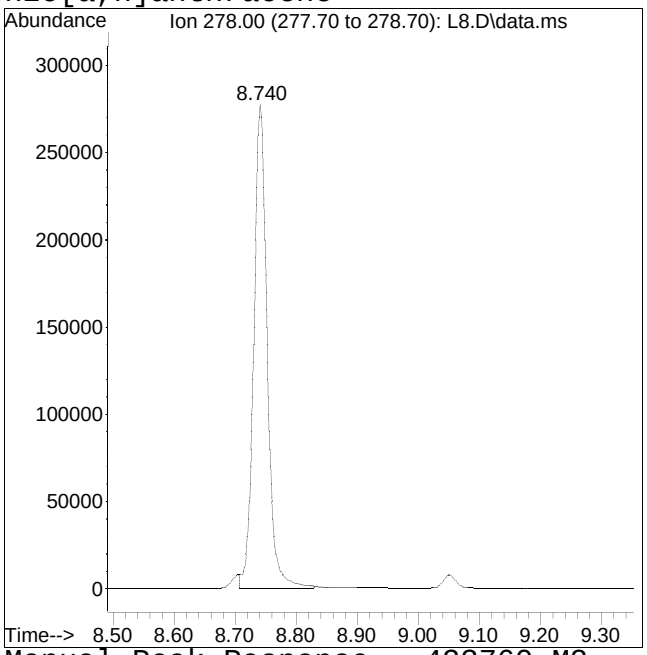
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410Q
Data File : L8.D
Date Inj'd : 10/25/2024 5:19 pm
Sample : IL8,32,, #10888 1000 ng/ml
Method : SIM-RVT_241025sv118.M
Operator : SV118:dv
Instrument : SV118
Quant Date : 12/4/2024 11:34 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 11541



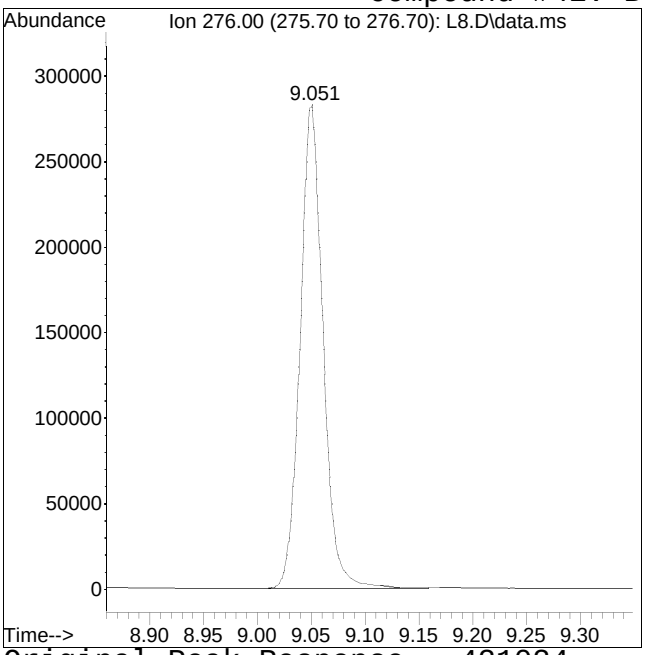
Manual Peak Response = 423760 M2

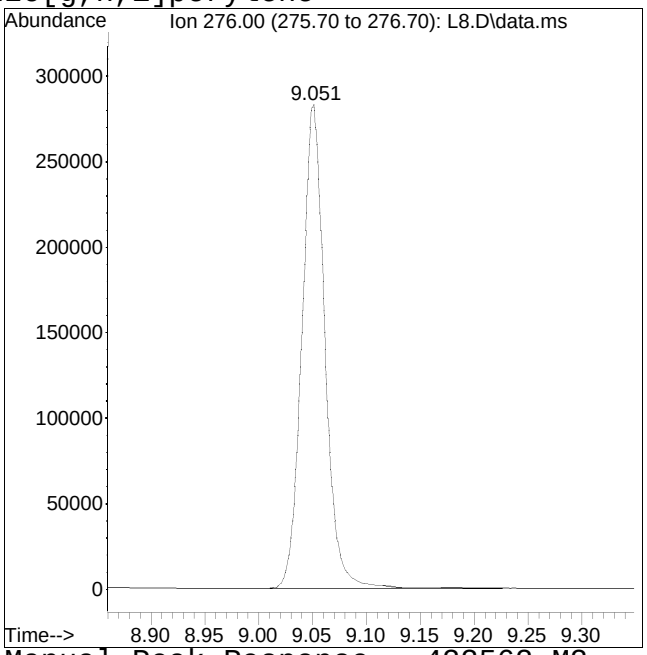
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L8.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:19 pm Instrument : SV118
Sample : IL8,32,, #10888 1000 ng/mlQuant Date : 12/4/2024 11:34 am

Compound #42: Benzo[g,h,i]perylene





Original Peak Response = 421024 Manual Peak Response = 422562 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L7.D
Acq On : 25 Oct 2024 05:37 pm
Operator : SV118:dv
Sample : IL7,32,, #10889 500 ng/ml
Misc : WG1990947,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 04 11:32:46 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:34:16 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	2.283	152	381360	4000.000	ng/ml		0.00
Standard Area 1 = 429824			Recovery = 88.72%				
8) Naphthalene-d8	2.946	136	1393828	4000.000	ng/ml		0.00
Standard Area 1 = 1574353			Recovery = 88.53%				
17) Acenaphthene-d10	3.923	164	767564	4000.000	ng/ml		0.00
Standard Area 1 = 863987			Recovery = 88.84%				
22) Phenanthrene-d10	4.753	188	1620744	4000.000	ng/ml	#	0.00
Standard Area 1 = 1755380			Recovery = 92.33%				
31) Chrysene-d12	6.277	240	1646437	4000.000	ng/ml		0.00
Standard Area 1 = 1692718			Recovery = 97.27%				
36) Perylene-d12	7.488	264	1727376	4000.000	ng/ml		0.00
Standard Area 1 = 1795203			Recovery = 96.22%				
System Monitoring Compounds							
2) 2-Fluorophenol	1.682	112	52262	484.705	ng/ml		0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 24.24%				
3) Phenol-d6	2.085	99	64713	488.430	ng/ml		0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 24.42%				
7) Nitrobenzene-d5	2.561	82	42910	501.645	ng/ml		0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 50.16%				
13) 2-Fluorobiphenyl	3.544	172	130931	488.544	ng/ml		0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 48.85%				
21) 2,4,6-Tribromophenol	4.362	330	18260	516.276	ng/ml		0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 25.81%				
30) 4-Terphenyl-d14	5.650	244	167002	503.601	ng/ml		0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 50.36%				
Target Compounds							Qvalue
4) Bis(2-chloroethyl)ether	2.143	93	57253	505.526	ng/ml		97
5) n-nitrosodi-n-propylamine	2.482	70	40405	482.194	ng/ml		97
6) Hexachloroethane	2.543	117	23509	491.338	ng/ml		86
9) Naphthalene	2.958	128	176856	482.014	ng/ml		100
10) Hexachlorobutadiene	3.029	225	31966	490.862	ng/ml		100
11) 2-Methylnaphthalene	3.339	142	115432	491.173	ng/ml		98
12) 1-Methylnaphthalene	3.394	142	106674	487.900	ng/ml		98
14) 2-Chloronaphthalene	3.609	162	116199M3	492.634	ng/ml		
15) 2,6-Dinitrotoluene	3.800	165	15072	472.105	ng/ml	#	81
16) Acenaphthylene	3.841	152	175925	503.826	ng/ml		99
18) Acenaphthene	3.939	153	121832	485.536	ng/ml		97

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L7.D
Acq On : 25 Oct 2024 05:37 pm
Operator : SV118:dv
Sample : IL7,32,, #10889 500 ng/ml
Misc : WG1990947,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 04 11:32:46 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:34:16 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.025	165	19855	431.377	ng/ml	85
20) Fluorene	4.228	166	133880	500.807	ng/ml	97
23) 4,6-Dinitro-o-cresol	4.251	198	8418	425.915	ng/ml#	77
24) Hexachlorobenzene	4.540	284	52390	490.973	ng/ml	98
25) Pentachlorophenol	4.649	266	18162M1	457.590	ng/ml	
26) Phenanthrene	4.765	178	213555	485.374	ng/ml	99
27) Anthracene	4.795	178	215333	498.704	ng/ml	99
28) Fluoranthene	5.434	202	250289	508.190	ng/ml#	92
29) Pyrene	5.562	202	268359	512.937	ng/ml	100
32) Benzo[a]anthracene	6.268	226	73539	456.086	ng/ml#	98
33) 3,3'-Dichlorobenzidine	6.251	252	91983	535.177	ng/ml	99
34) Chrysene	6.293	228	251190	505.753	ng/ml#	100
35) Bis(2-ethylhexyl)phtha...	6.288	149	141470	493.946	ng/ml	96
37) Benzo[b]fluoranthene	7.108	252	236214	530.407	ng/ml	99
38) Benzo[k]fluoranthene	7.132	252	243985	516.717	ng/ml	100
39) Benzo[a]pyrene	7.419	252	210014	533.777	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.709	276	201576	549.547	ng/ml#	88
41) Dibenzo[a,h]anthracene	8.745	278	202238M6	541.626	ng/ml	
42) Benzo[g,h,i]perylene	9.054	276	202429	526.456	ng/ml#	86

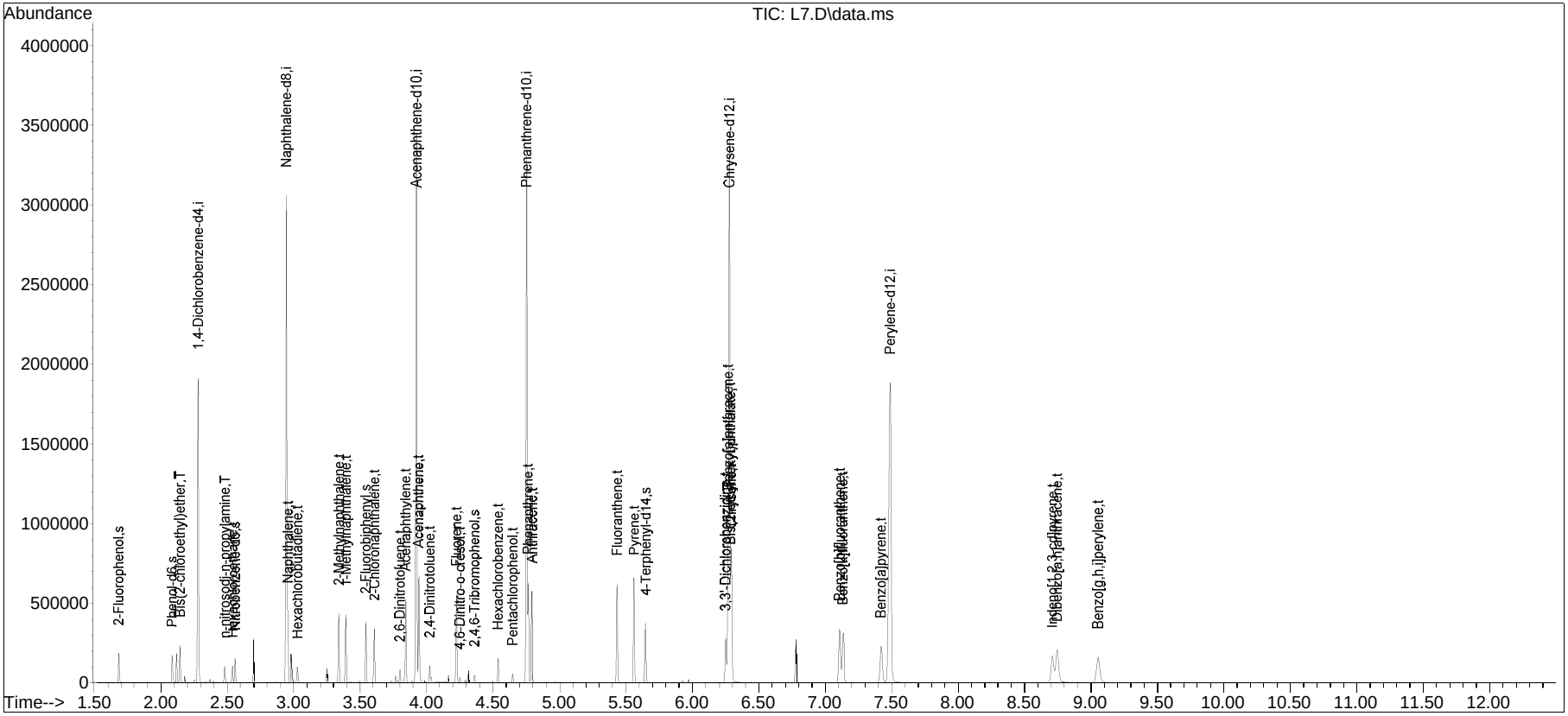
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L7.D
Acq On : 25 Oct 2024 05:37 pm
Operator : SV118:dv
Sample : IL7,32,, #10889 500 ng/ml
Misc : WG1990947,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 04 11:32:46 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:34:16 2024
Response via : Initial Calibration

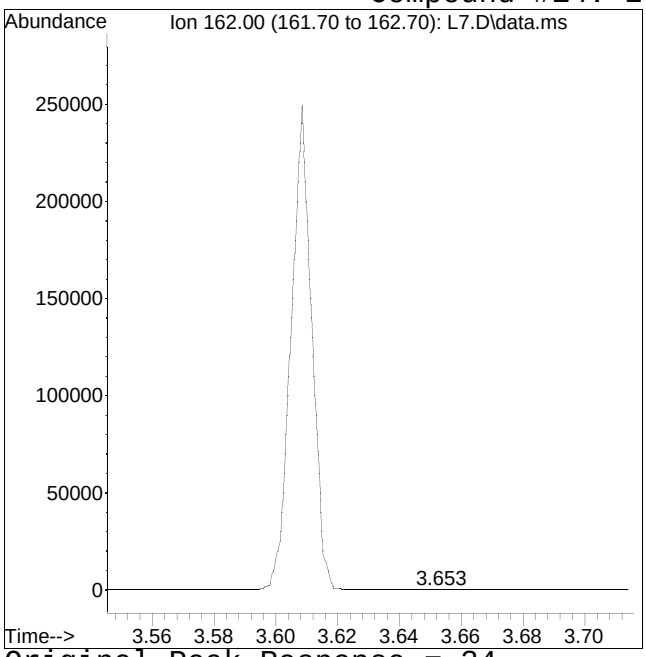
Sub List : Default - All compounds listedical\L8.D•

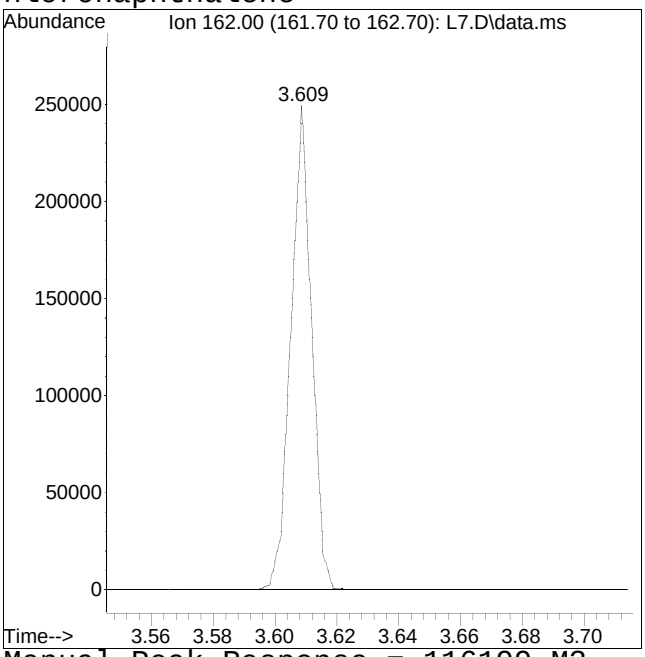


Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L7.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:37 pm Instrument : SV118
Sample : IL7,32,, #10889 500 ng/ml Quant Date : 12/4/2024 11:34 am

Compound #14: 2-Chloronaphthalene





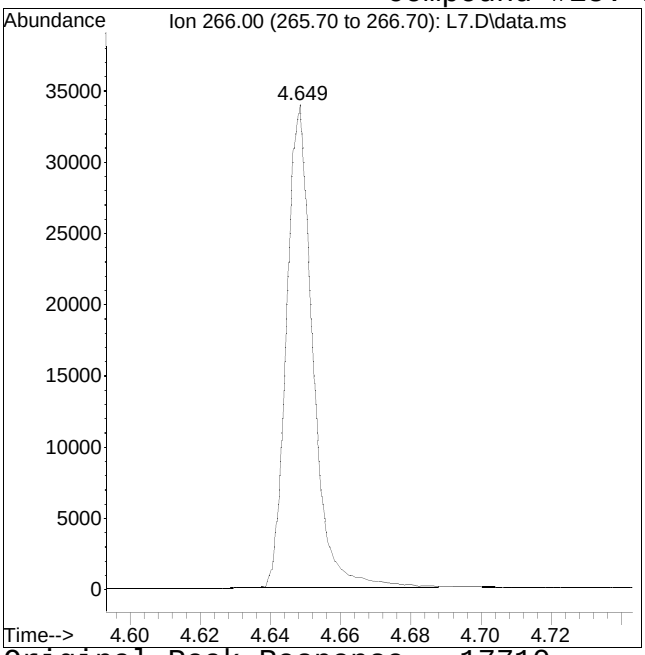
Original Peak Response = 34 Manual Peak Response = 116199 M3

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.

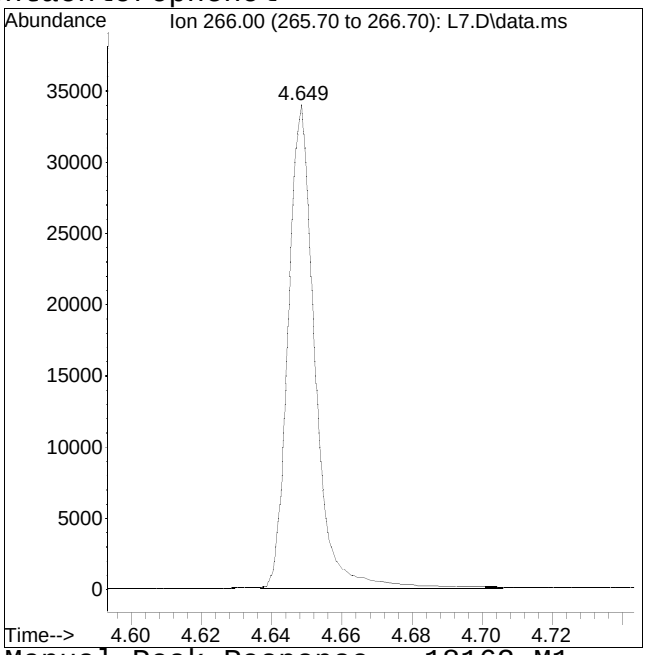
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L7.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:37 pm Instrument : SV118
Sample : IL7,32,, #10889 500 ng/ml Quant Date : 12/4/2024 11:34 am

Compound #25: Pentachlorophenol



Original Peak Response = 17710



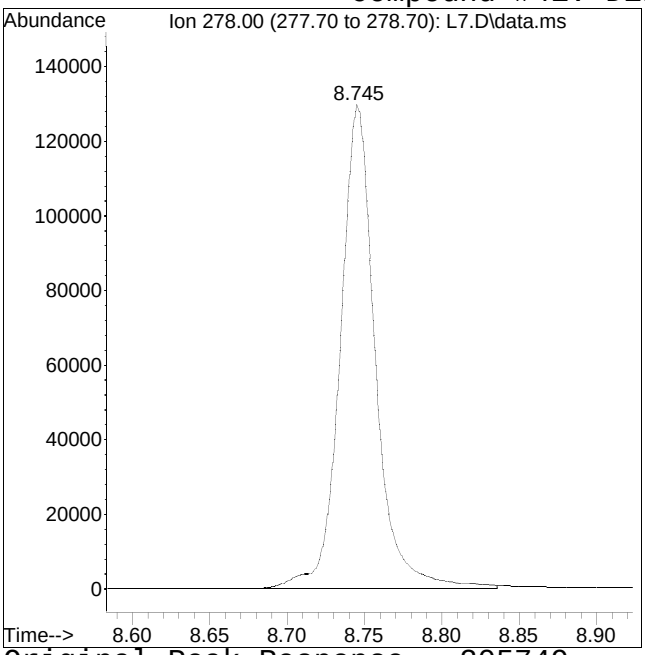
Manual Peak Response = 18162 M1

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

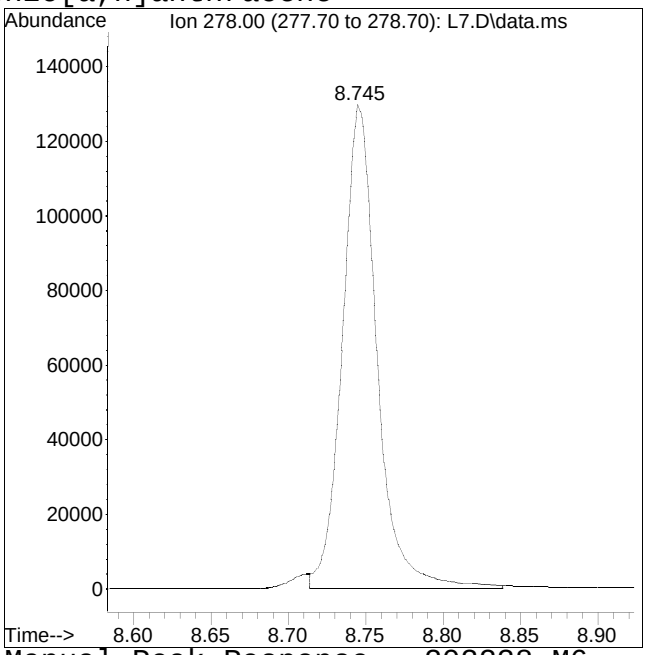
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L7.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:37 pm Instrument : SV118
Sample : IL7,32,, #10889 500 ng/ml Quant Date : 12/4/2024 11:34 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 205749



Manual Peak Response = 202238 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L6.D
Acq On : 25 Oct 2024 05:55 pm
Operator : SV118:dv
Sample : IL6,32,, #10899 100 ng/ml
Misc : WG1990947,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 04 11:32:36 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:34:10 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.283	152	368408	4000.000	ng/ml	0.00
Standard Area 1 = 429824			Recovery = 85.71%			
8) Naphthalene-d8	2.946	136	1341604	4000.000	ng/ml	0.00
Standard Area 1 = 1574353			Recovery = 85.22%			
17) Acenaphthene-d10	3.924	164	725196	4000.000	ng/ml	0.00
Standard Area 1 = 863987			Recovery = 83.94%			
22) Phenanthrene-d10	4.755	188	1514238M3	4000.000	ng/ml	0.00
Standard Area 1 = 1755380			Recovery = 86.26%			
31) Chrysene-d12	6.277	240	1564976	4000.000	ng/ml	0.00
Standard Area 1 = 1692718			Recovery = 92.45%			
36) Perylene-d12	7.487	264	1629061	4000.000	ng/ml	0.00
Standard Area 1 = 1795203			Recovery = 90.75%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.685	112	12084	116.014	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 5.80%#			
3) Phenol-d6	2.088	99	15040	117.507	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 5.88%#			
7) Nitrobenzene-d5	2.563	82	9820	118.838	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 11.88%#			
13) 2-Fluorobiphenyl	3.547	172	30432	117.971	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 11.80%#			
21) 2,4,6-Tribromophenol	4.362	330	3851	115.243	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 5.76%#			
30) 4-Terphenyl-d14	5.649	244	37131M3	119.846	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 11.98%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.146	93	18260	165.258	ng/ml#	74
5) n-nitrosodi-n-propylamine	2.482	70	9287	114.728	ng/ml	97
6) Hexachloroethane	2.543	117	5415	117.152	ng/ml	86
9) Naphthalene	2.958	128	41707	118.096	ng/ml	100
10) Hexachlorobutadiene	3.033	225	7480	119.332	ng/ml	100
11) 2-Methylnaphthalene	3.339	142	26657	117.843	ng/ml	98
12) 1-Methylnaphthalene	3.394	142	24903	118.334	ng/ml	98
14) 2-Chloronaphthalene	3.608	162	26807	118.074	ng/ml#	88
15) 2,6-Dinitrotoluene	3.802	165	2971	96.684	ng/ml#	80
16) Acenaphthylene	3.843	152	39466	117.425	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L6.D
Acq On : 25 Oct 2024 05:55 pm
Operator : SV118:dv
Sample : IL6,32,, #10899 100 ng/ml
Misc : WG1990947,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 04 11:32:36 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:34:10 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18) Acenaphthene	3.941	153	28287	119.318	ng/ml	99
19) 2,4-Dinitrotoluene	4.027	165	3542	101.729	ng/ml#	80
20) Fluorene	4.228	166	30307	119.993	ng/ml	98
23) 4,6-Dinitro-o-cresol	4.255	198	1566	104.281	ng/ml#	79
24) Hexachlorobenzene	4.542	284	11948	119.846	ng/ml	98
25) Pentachlorophenol	4.650	266	3167M3	85.405	ng/ml	
26) Phenanthrene	4.767	178	49338M6	120.024	ng/ml	
27) Anthracene	4.794	178	48360	119.878	ng/ml	100
28) Fluoranthene	5.434	202	55815	121.299	ng/ml#	91
29) Pyrene	5.562	202	58434	119.546	ng/ml	100
32) Benzo[a]anthracene	6.268	226	16481	107.535	ng/ml#	95
33) 3,3'-Dichlorobenzidine	6.252	252	18616	113.950	ng/ml	99
34) Chrysene	6.292	228	57463	121.720	ng/ml#	99
35) Bis(2-ethylhexyl)phtha...	6.289	149	27080	99.472	ng/ml	100
37) Benzo[b]fluoranthene	7.107	252	50155	119.417	ng/ml	99
38) Benzo[k]fluoranthene	7.131	252	54374	122.104	ng/ml	100
39) Benzo[a]pyrene	7.418	252	44315	119.429	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.705	276	40165	116.108	ng/ml#	88
41) Dibenzo[a,h]anthracene	8.741	278	42696M3	121.248	ng/ml	
42) Benzo[g,h,i]perylene	9.050	276	43194	119.114	ng/ml#	86

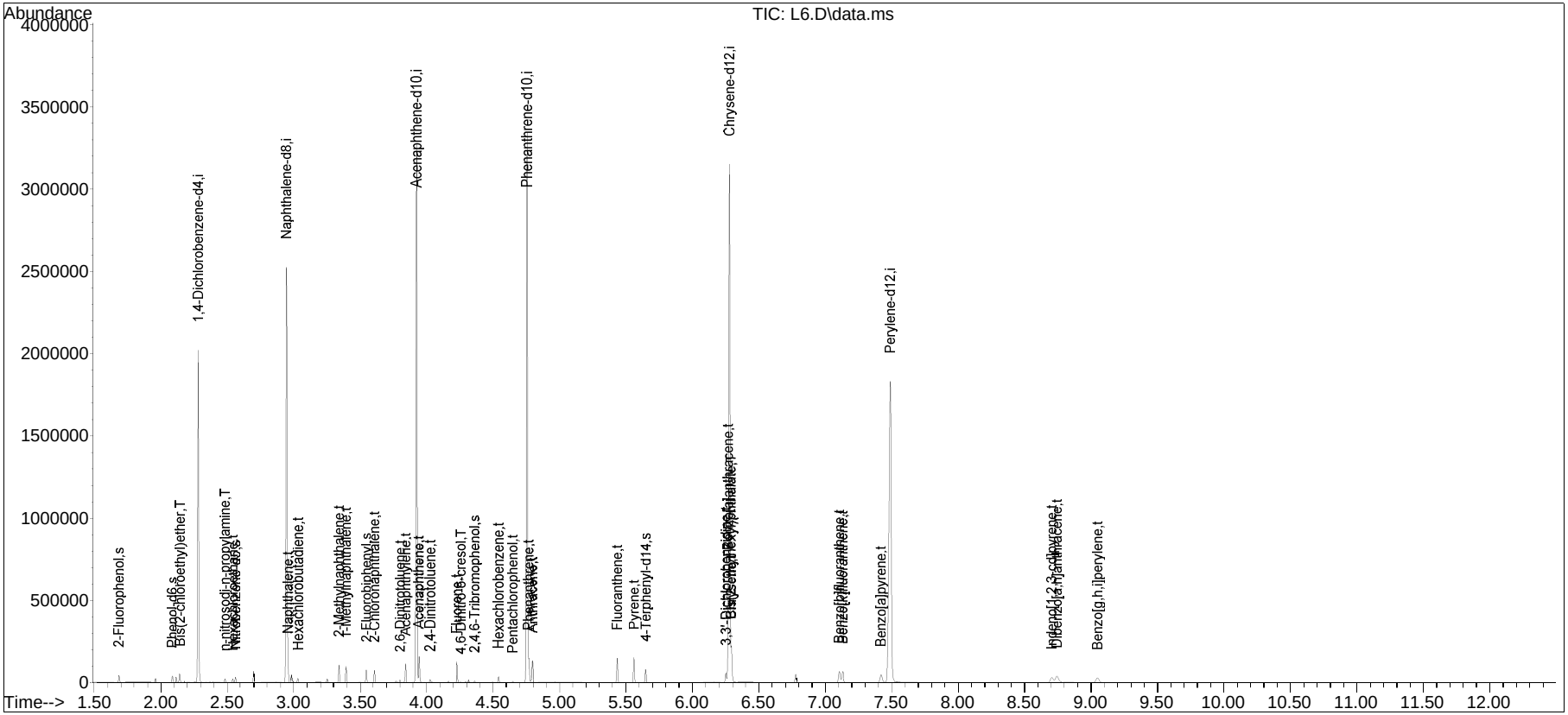
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L6.D
Acq On : 25 Oct 2024 05:55 pm
Operator : SV118:dv
Sample : IL6,32,, #10899 100 ng/ml
Misc : WG1990947,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 04 11:32:36 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:34:10 2024
Response via : Initial Calibration

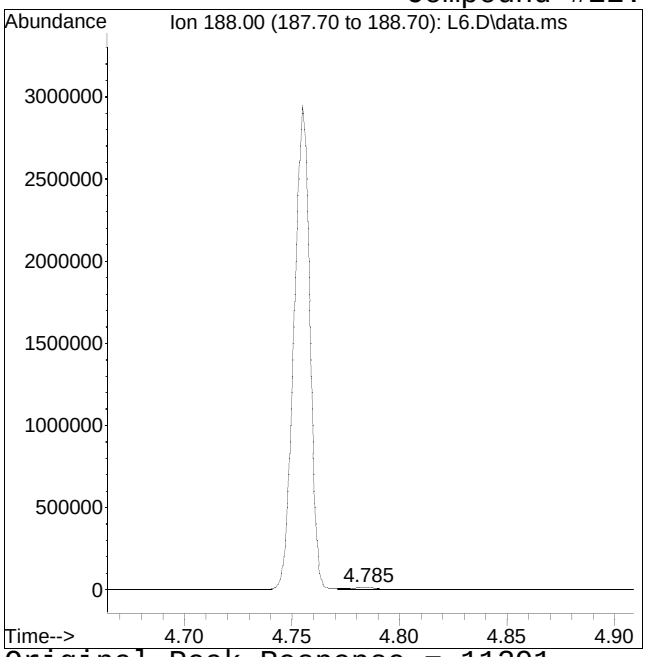
Sub List : Default - All compounds listedical\L8.D•

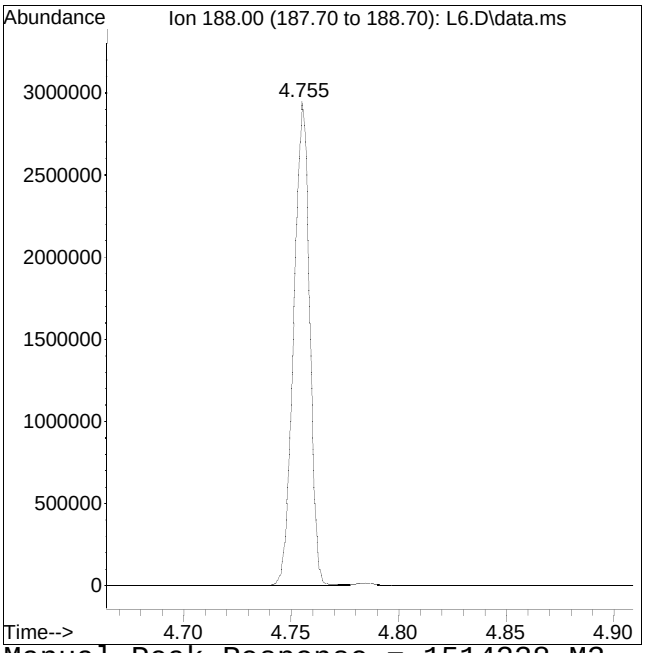


Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L6.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:55 pm Instrument : SV118
Sample : IL6,32,, #10899 100 ng/ml Quant Date : 12/4/2024 11:34 am

Compound #22: Phenanthrene-d10





Original Peak Response = 11291 Manual Peak Response = 1514238 M3

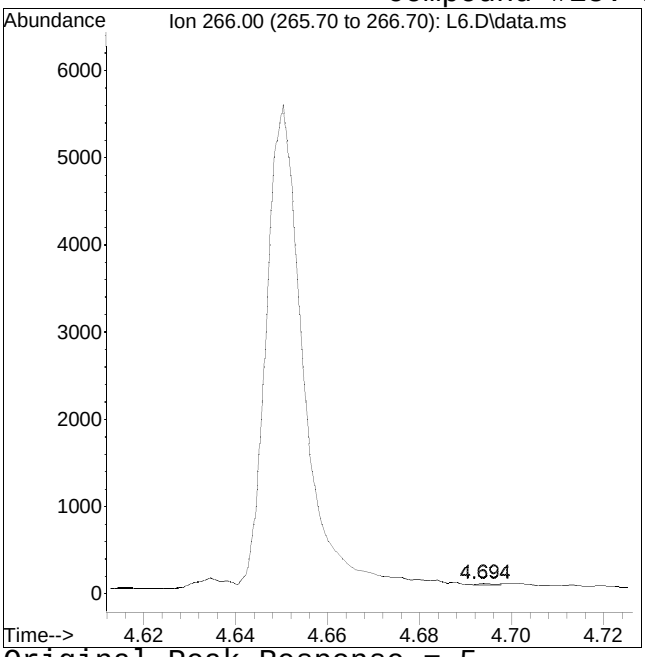
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

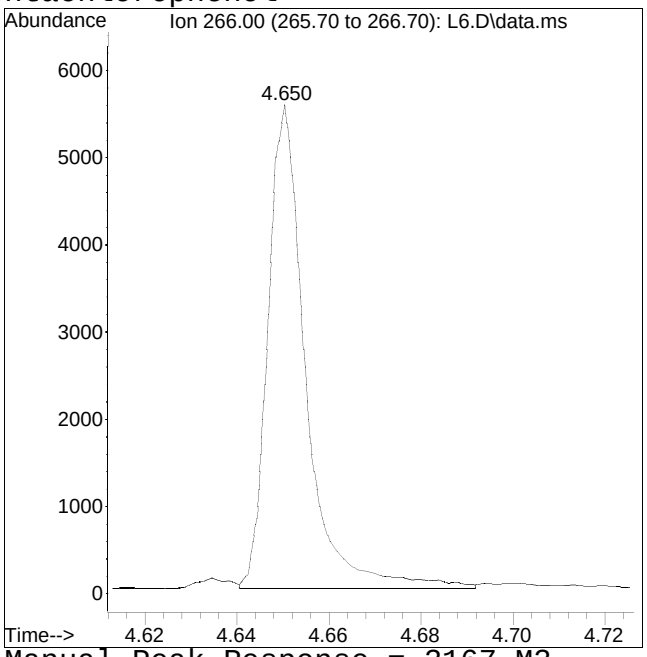
Data Path : I:\8270SIM\SV118\2024\2410Q
Data File : L6.D
Date Inj'd : 10/25/2024 5:55 pm
Sample : IL6,32,, #10899 100 ng/ml

Method : SIM-RVT_241025sv118.M
Operator : SV118:dv
Instrument : SV118
Quant Date : 12/4/2024 11:34 am

Compound #25: Pentachlorophenol



Original Peak Response = 5



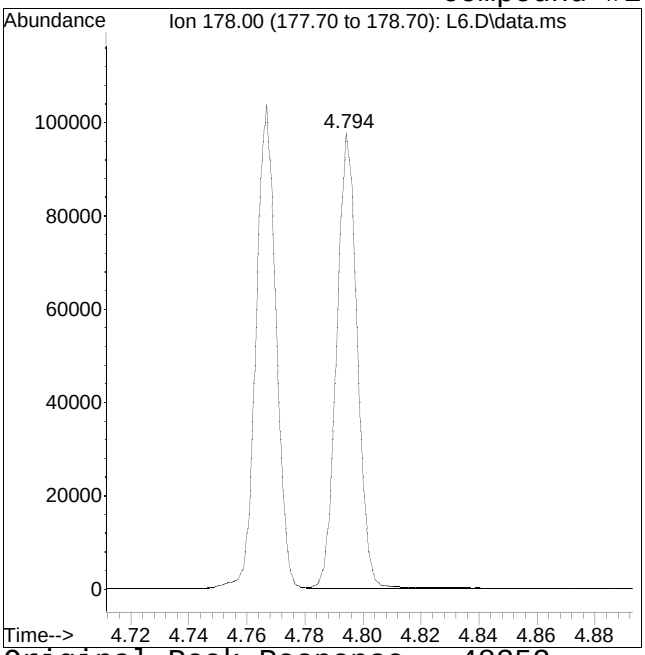
Manual Peak Response = 3167 M3

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.

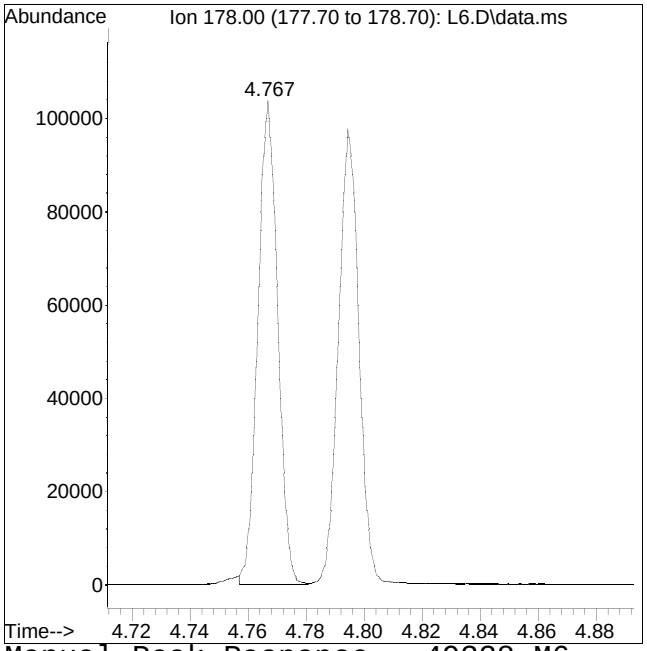
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L6.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:55 pm Instrument : SV118
Sample : IL6,32,, #10899 100 ng/ml Quant Date : 12/4/2024 11:34 am

Compound #26: Phenanthrene



Original Peak Response = 48352



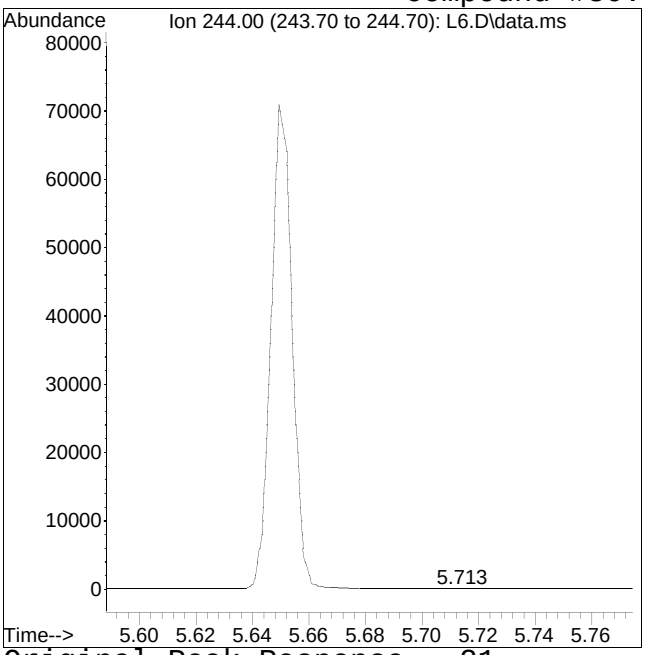
Manual Peak Response = 49338 M6

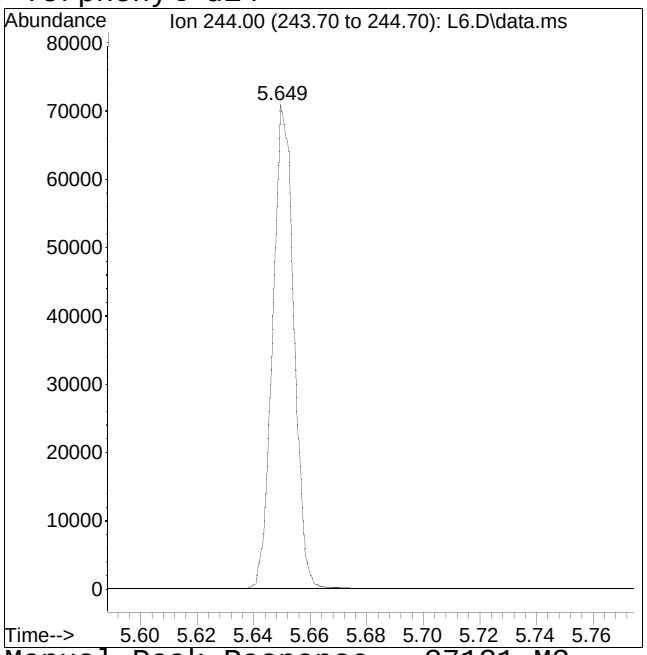
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L6.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:55 pm Instrument : SV118
Sample : IL6,32,, #10899 100 ng/ml Quant Date : 12/4/2024 11:34 am

Compound #30: 4-Terphenyl-d14



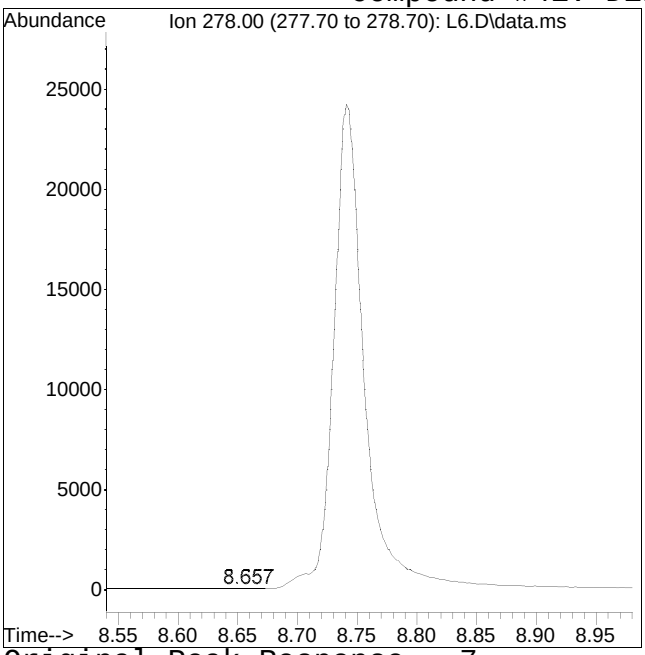


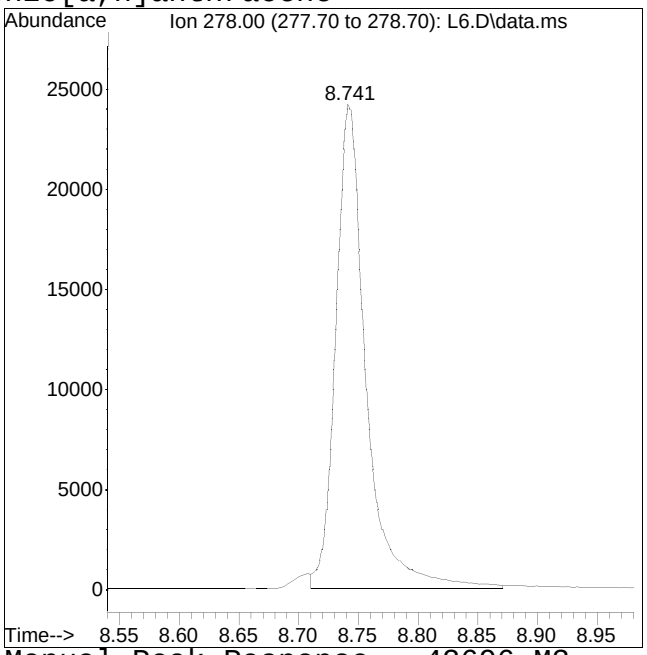
Original Peak Response = 21 Manual Peak Response = 37131 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L6.D Operator : SV118:dv
Date Inj'd : 10/25/2024 5:55 pm Instrument : SV118
Sample : IL6,32,, #10899 100 ng/ml Quant Date : 12/4/2024 11:34 am

Compound #41: Dibenzo[a,h]anthracene





Original Peak Response = 7 Manual Peak Response = 42696 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\SV118\2024\241025RVTical\
Data File : L5.D
Acq On : 25 Oct 2024 06:12 pm
Operator : SV118:dv
Sample : IL5,32,, #10891 40 ng/ml
Misc : WG1990947,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 04 11:32:30 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:34:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.286	152	350794	4000.000	ng/ml	0.00
Standard Area 1 = 429824			Recovery = 81.61%			
8) Naphthalene-d8	2.950	136	1270298	4000.000	ng/ml	0.00
Standard Area 1 = 1574353			Recovery = 80.69%			
17) Acenaphthene-d10	3.925	164	679336	4000.000	ng/ml	0.00
Standard Area 1 = 863987			Recovery = 78.63%			
22) Phenanthrene-d10	4.757	188	1404763M3	4000.000	ng/ml	0.00
Standard Area 1 = 1755380			Recovery = 80.03%			
31) Chrysene-d12	6.279	240	1442435	4000.000	ng/ml	0.00
Standard Area 1 = 1692718			Recovery = 85.21%			
36) Perylene-d12	7.488	264	1484437	4000.000	ng/ml	0.00
Standard Area 1 = 1795203			Recovery = 82.69%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.686	112	3731	37.618	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.88%#			
3) Phenol-d6	2.088	99	4580	37.580	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.88%#			
7) Nitrobenzene-d5	2.563	82	2908	36.959	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 3.70%#			
13) 2-Fluorobiphenyl	3.547	172	9203	37.679	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 3.77%#			
21) 2,4,6-Tribromophenol	4.366	330	1070	34.182	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.71%#			
30) 4-Terphenyl-d14	5.652	244	10760	37.436	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 3.74%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.146	93	4217	38.226	ng/ml	94
5) n-nitrosodi-n-propylamine	2.485	70	2736	35.497	ng/ml	96
6) Hexachloroethane	2.546	117	1648	37.444	ng/ml	87
9) Naphthalene	2.958	128	12776	38.207	ng/ml	98
10) Hexachlorobutadiene	3.033	225	2307	38.871	ng/ml	100
11) 2-Methylnaphthalene	3.343	142	8074	37.696	ng/ml	97
12) 1-Methylnaphthalene	3.397	142	7553	37.905	ng/ml	99
14) 2-Chloronaphthalene	3.612	162	8084	37.606	ng/ml	88
15) 2,6-Dinitrotoluene	3.803	165	841	28.905	ng/ml#	80
16) Acenaphthylene	3.844	152	11676	36.690	ng/ml	100
18) Acenaphthene	3.942	153	8420	37.914	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L5.D
Acq On : 25 Oct 2024 06:12 pm
Operator : SV118:dv
Sample : IL5,32,, #10891 40 ng/ml
Misc : WG1990947,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 04 11:32:30 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:34:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.029	165	929	46.482	ng/ml#	83
20) Fluorene	4.228	166	8892	37.582	ng/ml	98
23) 4,6-Dinitro-o-cresol	4.255	198	398	46.224	ng/ml	89
24) Hexachlorobenzene	4.544	284	3484	37.670	ng/ml	97
25) Pentachlorophenol	4.652	266	1183M6	34.388	ng/ml	
26) Phenanthrene	4.769	178	14592M3	38.264	ng/ml	
27) Anthracene	4.796	178	14074	37.606	ng/ml	100
28) Fluoranthene	5.437	202	16065M6	37.634	ng/ml	
29) Pyrene	5.562	202	16815	37.081	ng/ml	100
32) Benzo[a]anthracene	6.270	226	4816	34.093	ng/ml#	70
33) 3,3'-Dichlorobenzidine	6.253	252	4908	32.594	ng/ml	99
34) Chrysene	6.292	228	16771	38.543	ng/ml#	99
35) Bis(2-ethylhexyl)phtha...	6.289	149	7113	28.348	ng/ml	92
37) Benzo[b]fluoranthene	7.108	252	13512	35.306	ng/ml	99
38) Benzo[k]fluoranthene	7.132	252	15077	37.156	ng/ml	97
39) Benzo[a]pyrene	7.422	252	11885	35.151	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.709	276	10333	32.781	ng/ml#	86
41) Dibenzo[a,h]anthracene	8.745	278	10810M6	33.689	ng/ml	
42) Benzo[g,h,i]perylene	9.054	276	11799	35.708	ng/ml#	89

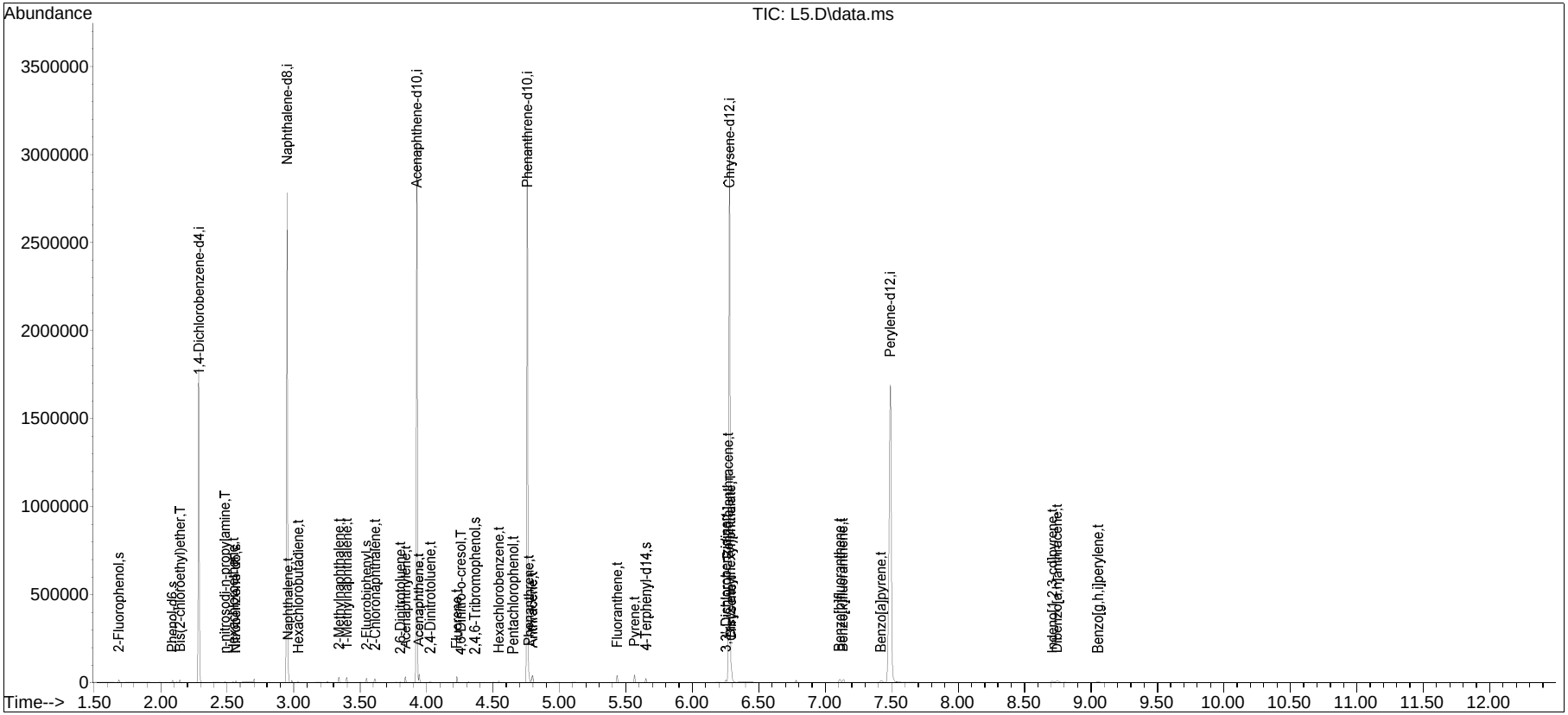
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L5.D
Acq On : 25 Oct 2024 06:12 pm
Operator : SV118:dv
Sample : IL5,32,, #10891 40 ng/ml
Misc : WG1990947,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 04 11:32:30 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:34:03 2024
Response via : Initial Calibration

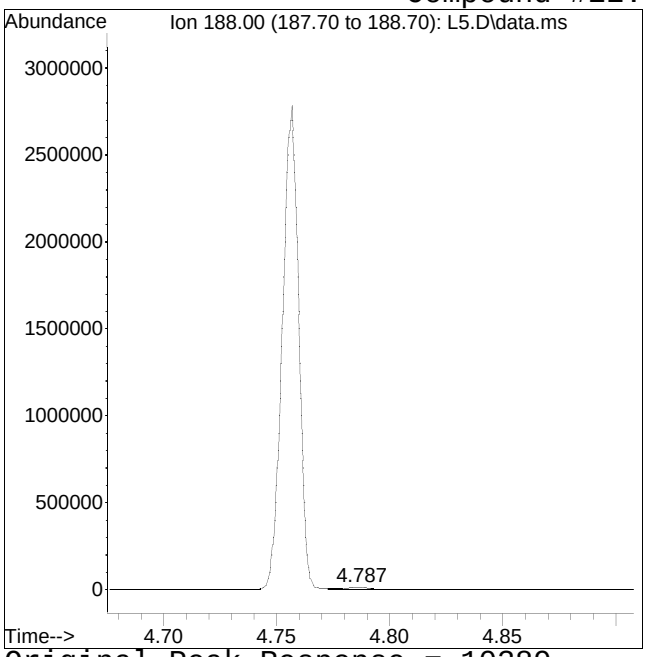
Sub List : Default - All compounds listedical\L8.D•

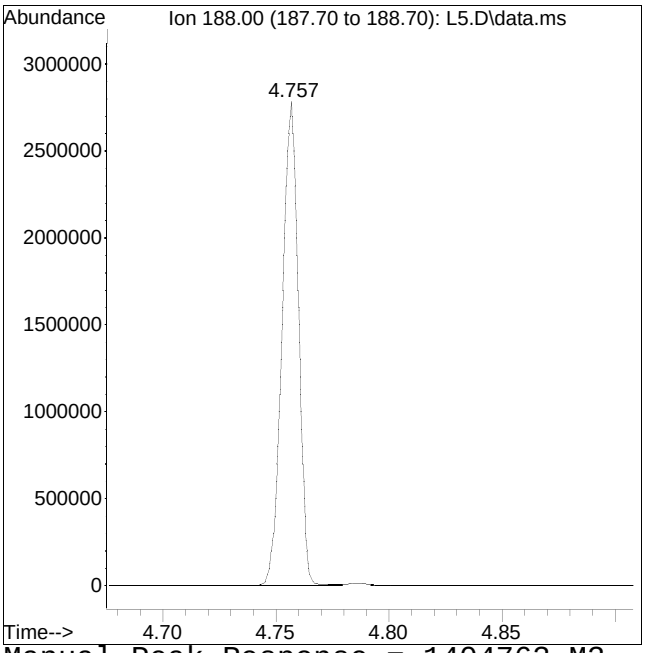


Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L5.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:12 pm Instrument : SV118
Sample : IL5,32,, #10891 40 ng/ml Quant Date : 12/4/2024 11:34 am

Compound #22: Phenanthrene-d10



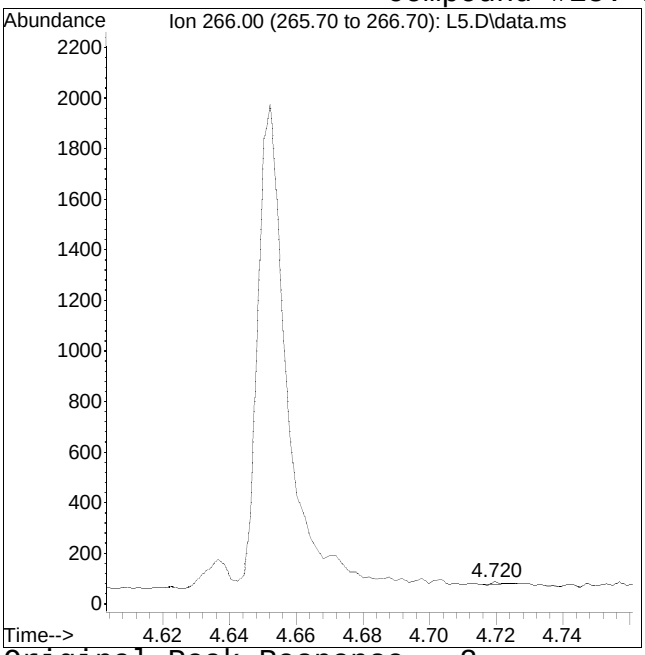


Original Peak Response = 10389 Manual Peak Response = 1404763 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

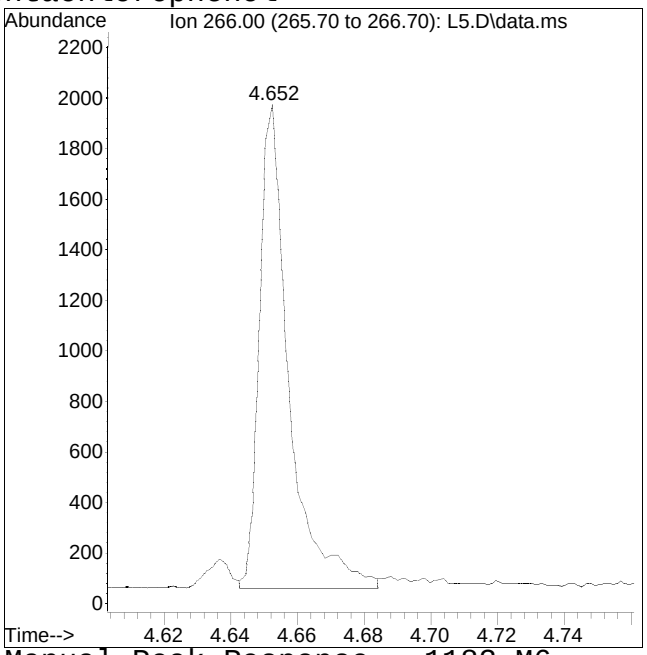
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L5.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:12 pm Instrument : SV118
Sample : IL5,32,, #10891 40 ng/ml Quant Date : 12/4/2024 11:34 am

Compound #25: Pentachlorophenol



Original Peak Response = 2



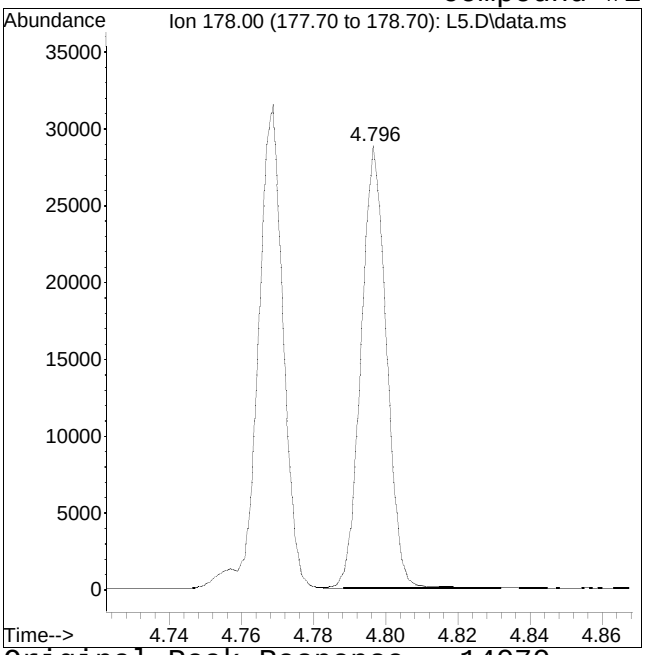
Manual Peak Response = 1183 M6

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

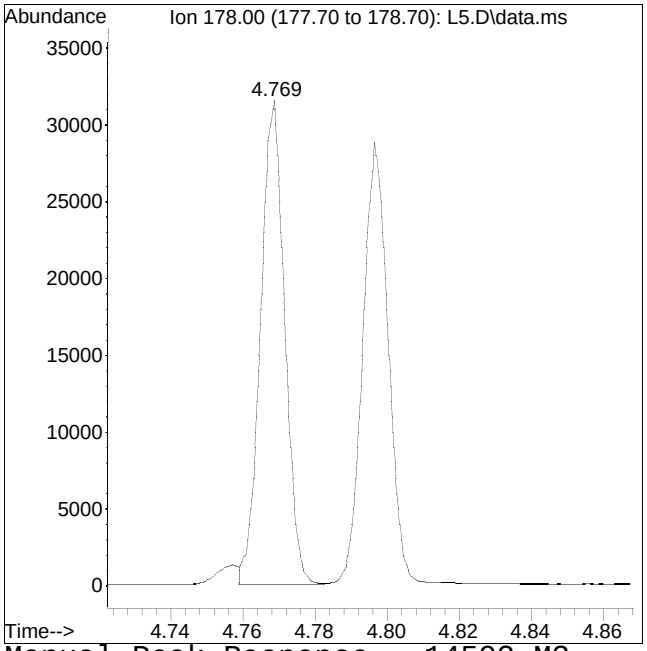
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L5.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:12 pm Instrument : SV118
Sample : IL5,32,, #10891 40 ng/ml Quant Date : 12/4/2024 11:34 am

Compound #26: Phenanthrene



Original Peak Response = 14070



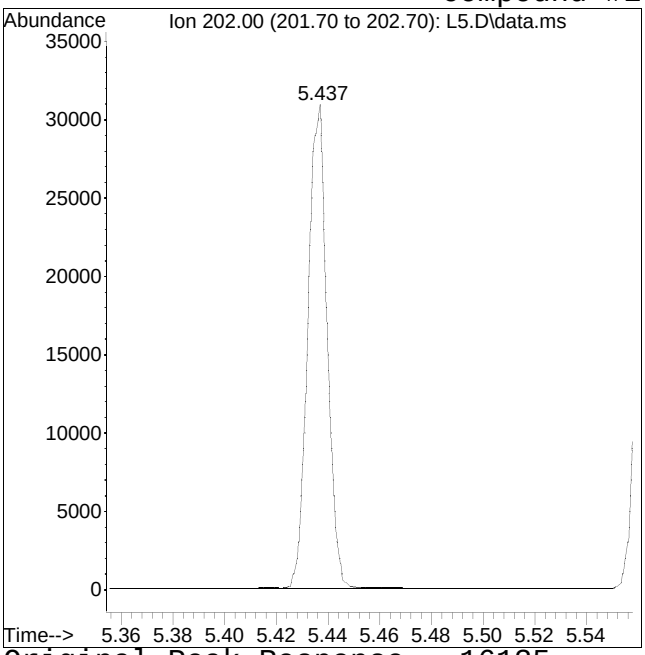
Manual Peak Response = 14592 M3

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.

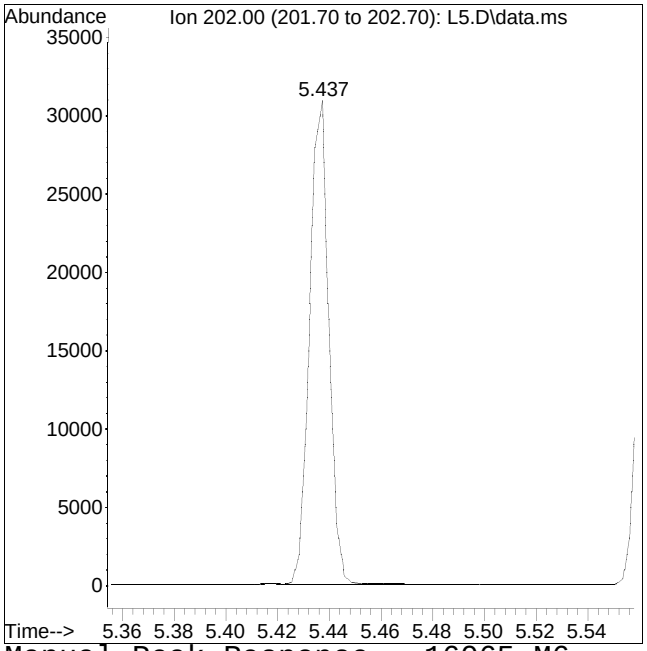
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L5.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:12 pm Instrument : SV118
Sample : IL5,32,, #10891 40 ng/ml Quant Date : 12/4/2024 11:34 am

Compound #28: Fluoranthene



Original Peak Response = 16135



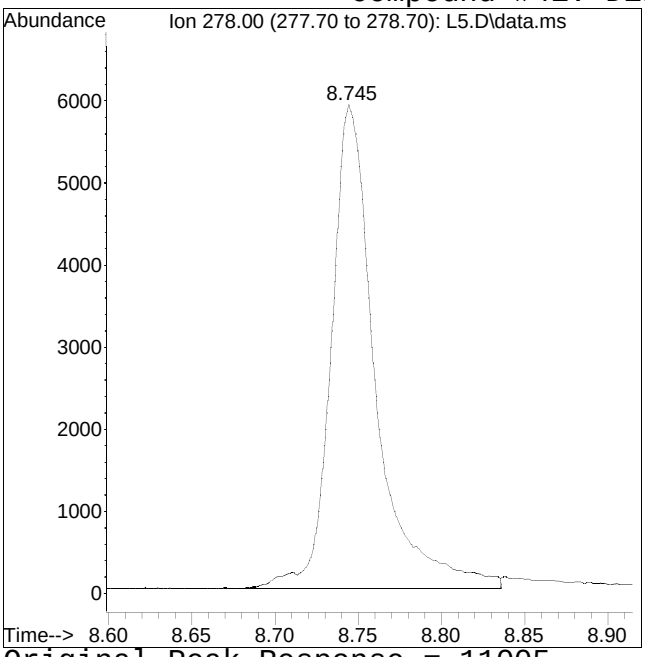
Manual Peak Response = 16065 M6

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

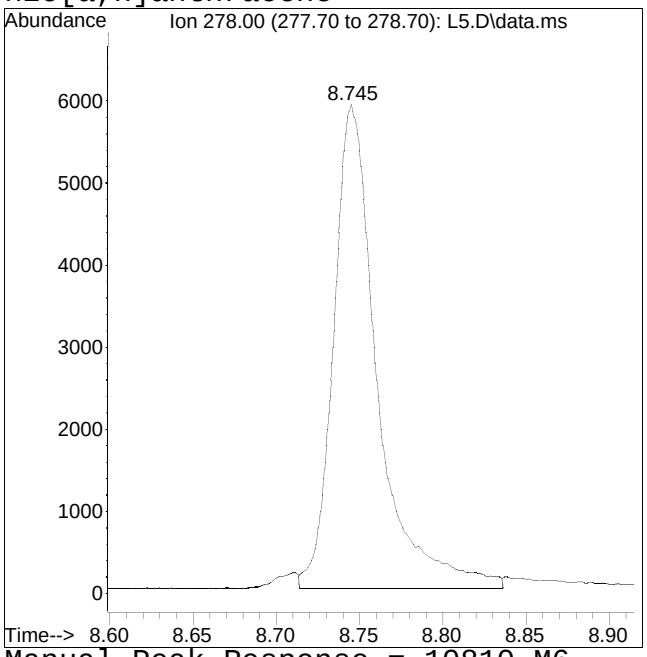
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L5.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:12 pm Instrument : SV118
Sample : IL5,32,, #10891 40 ng/ml Quant Date : 12/4/2024 11:34 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 11005



Manual Peak Response = 10810 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L4.D
Acq On : 25 Oct 2024 06:29 pm
Operator : SV118:dv
Sample : IL4,32,, #10892 10 ng/ml
Misc : WG1990947,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 04 11:32:23 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:33:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.282	152	284775	4000.000	ng/ml	0.00
Standard Area 1 = 429824			Recovery = 66.25%			
8) Naphthalene-d8	2.950	136	1020186	4000.000	ng/ml	0.00
Standard Area 1 = 1574353			Recovery = 64.80%			
17) Acenaphthene-d10	3.927	164	546734	4000.000	ng/ml	0.00
Standard Area 1 = 863987			Recovery = 63.28%			
22) Phenanthrene-d10	4.757	188	1133012M3	4000.000	ng/ml	0.00
Standard Area 1 = 1755380			Recovery = 64.55%			
31) Chrysene-d12	6.278	240	1188422	4000.000	ng/ml	0.00
Standard Area 1 = 1692718			Recovery = 70.21%			
36) Perylene-d12	7.487	264	1231399	4000.000	ng/ml	0.00
Standard Area 1 = 1795203			Recovery = 68.59%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.680	112	754	9.365	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.47%#			
3) Phenol-d6	2.088	99	932	9.420	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.47%#			
7) Nitrobenzene-d5	2.563	82	585	9.159	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.92%#			
13) 2-Fluorobiphenyl	3.547	172	1855	9.457	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.95%#			
21) 2,4,6-Tribromophenol	4.366	330	211	8.375	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.42%#			
30) 4-Terphenyl-d14	5.653	244	2112M3	9.110	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.91%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.146	93	863	7.805	ng/ml	94
5) n-nitrosodi-n-propylamine	2.484	70	573	9.157	ng/ml	97
6) Hexachloroethane	2.546	117	340	9.516	ng/ml	89
9) Naphthalene	2.962	128	2659M7	9.901	ng/ml	
10) Hexachlorobutadiene	3.033	225	463	9.714	ng/ml	97
11) 2-Methylnaphthalene	3.342	142	1637	9.517	ng/ml	98
12) 1-Methylnaphthalene	3.397	142	1490	9.311	ng/ml	95
14) 2-Chloronaphthalene	3.611	162	1615	9.355	ng/ml#	85
15) 2,6-Dinitrotoluene	3.802	165	217M4	9.287	ng/ml	
16) Acenaphthylene	3.845	152	2296	8.984	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L4.D
Acq On : 25 Oct 2024 06:29 pm
Operator : SV118:dv
Sample : IL4,32,, #10892 10 ng/ml
Misc : WG1990947,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 04 11:32:23 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:33:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18) Acenaphthene	3.943	153	1721	9.629	ng/ml	98
19) 2,4-Dinitrotoluene	4.030	165	174	29.998	ng/ml#	88
20) Fluorene	4.232	166	1782	9.358	ng/ml	95
23) 4,6-Dinitro-o-cresol	4.260	198	56M6	28.139	ng/ml	
24) Hexachlorobenzene	4.544	284	719	9.639	ng/ml	98
25) Pentachlorophenol	4.655	266	220M3	7.929	ng/ml	
26) Phenanthrene	4.769	178	2970M3	9.656	ng/ml	
27) Anthracene	4.799	178	2813M4	9.319	ng/ml	
28) Fluoranthene	5.437	202	3196M3	9.283	ng/ml	
29) Pyrene	5.565	202	3386M3	9.258	ng/ml	
32) Benzo[a]anthracene	6.271	226	1220	10.482	ng/ml#	8
33) 3,3'-Dichlorobenzidine	6.253	252	945	7.617	ng/ml#	98
34) Chrysene	6.293	228	3361M4	9.375	ng/ml	
35) Bis(2-ethylhexyl)phtha...	6.288	149	2112M6	10.216	ng/ml	
37) Benzo[b]fluoranthene	7.109	252	2756	8.681	ng/ml	99
38) Benzo[k]fluoranthene	7.133	252	2927	8.696	ng/ml	97
39) Benzo[a]pyrene	7.421	252	2377	8.475	ng/ml	98
40) Indeno[1,2,3-cd]pyrene	8.708	276	2088	7.985	ng/ml#	86
41) Dibenzo[a,h]anthracene	8.746	278	2021M1	7.593	ng/ml	
42) Benzo[g,h,i]perylene	9.053	276	2317	8.453	ng/ml#	85

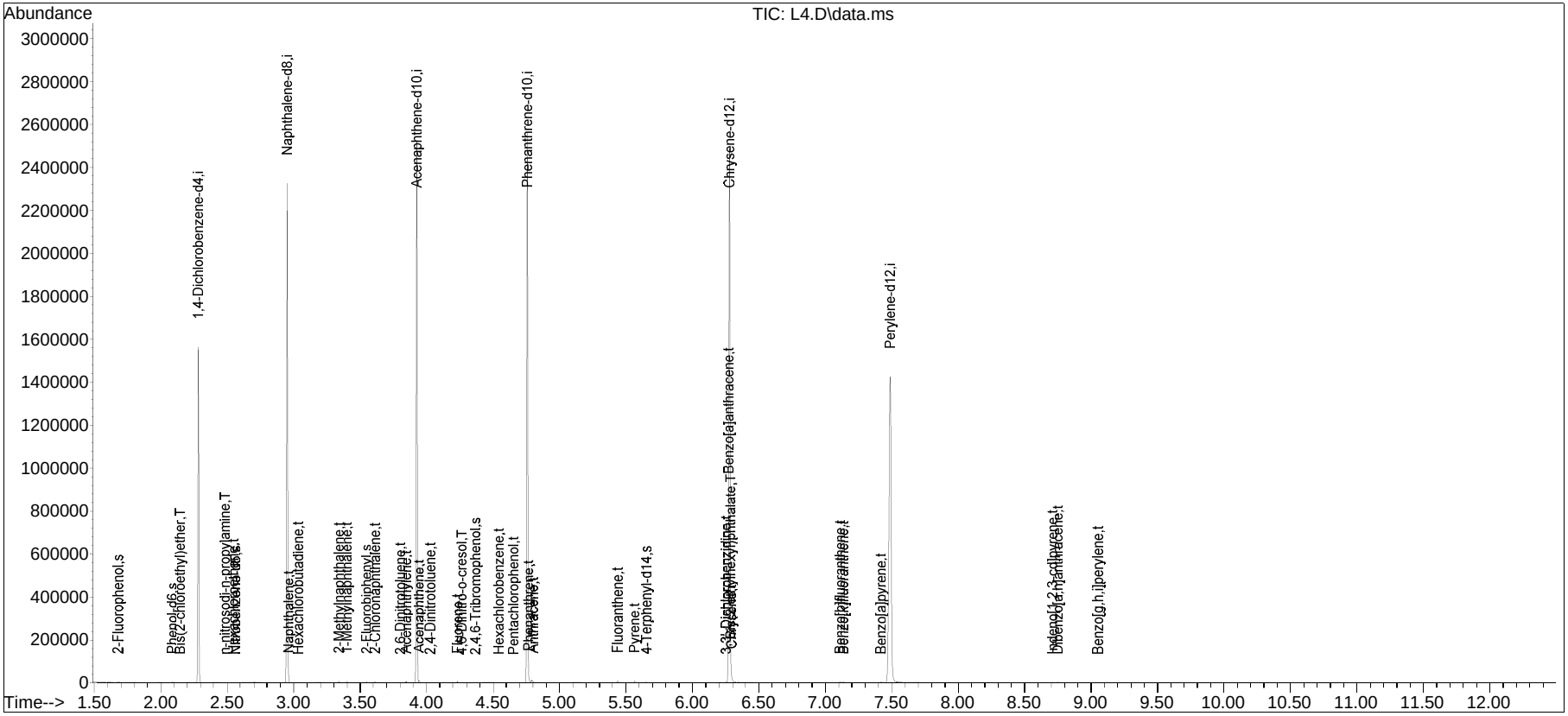
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L4.D
Acq On : 25 Oct 2024 06:29 pm
Operator : SV118:dv
Sample : IL4,32,, #10892 10 ng/ml
Misc : WG1990947,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 04 11:32:23 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:33:55 2024
Response via : Initial Calibration

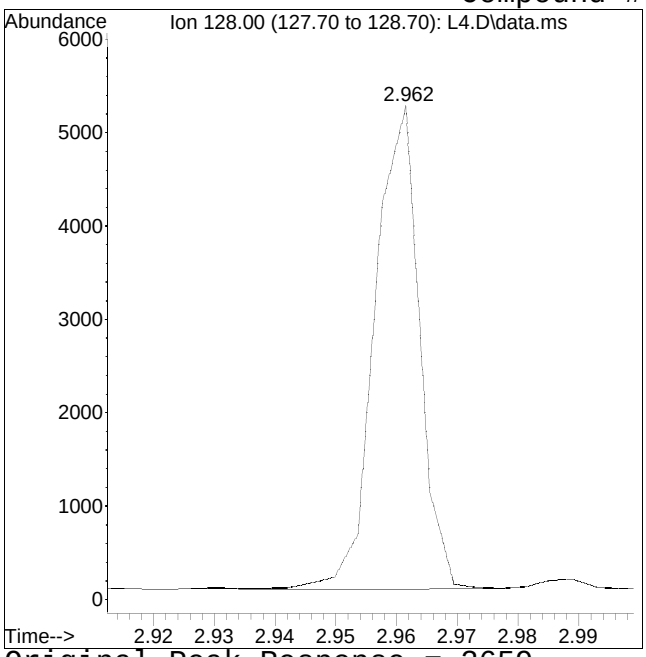
Sub List : Default - All compounds listedical\L8.D•

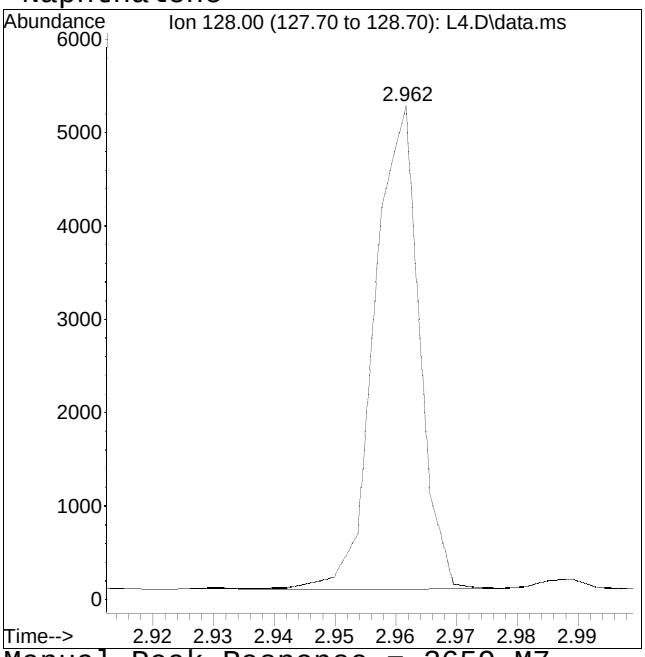


Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L4.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:29 pm Instrument : SV118
Sample : IL4,32,, #10892 10 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #9: Naphthalene



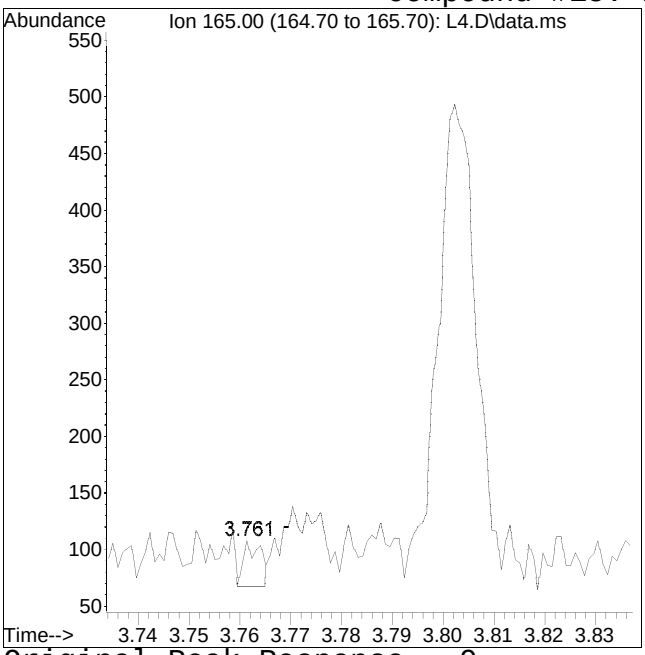


Original Peak Response = 2659 Manual Peak Response = 2659 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

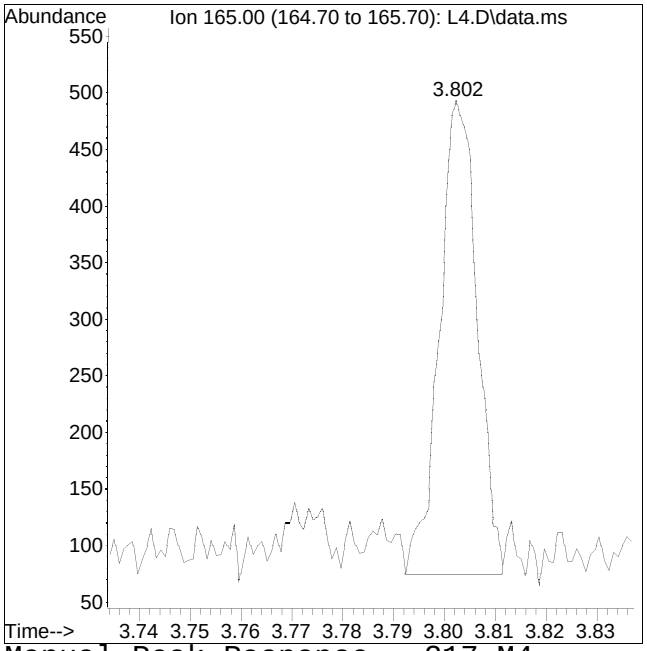
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L4.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:29 pm Instrument : SV118
Sample : IL4,32,, #10892 10 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 9



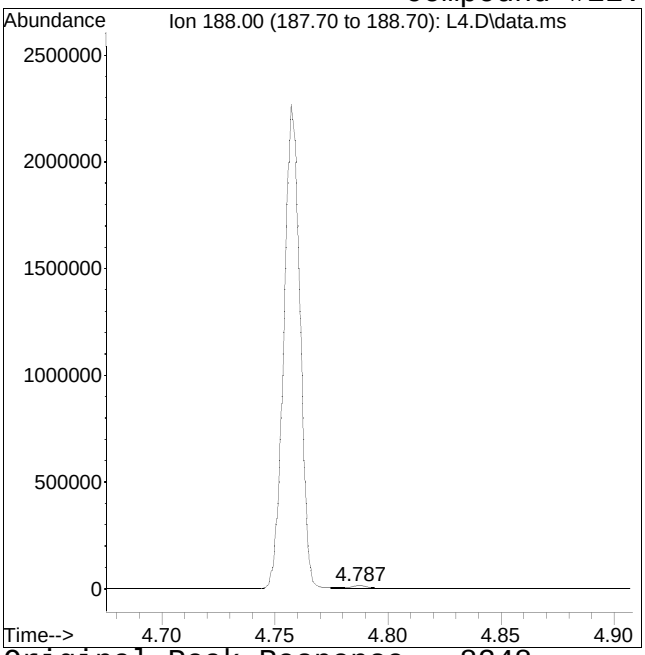
Manual Peak Response = 217 M4

M4 = Poor automated baseline construction.

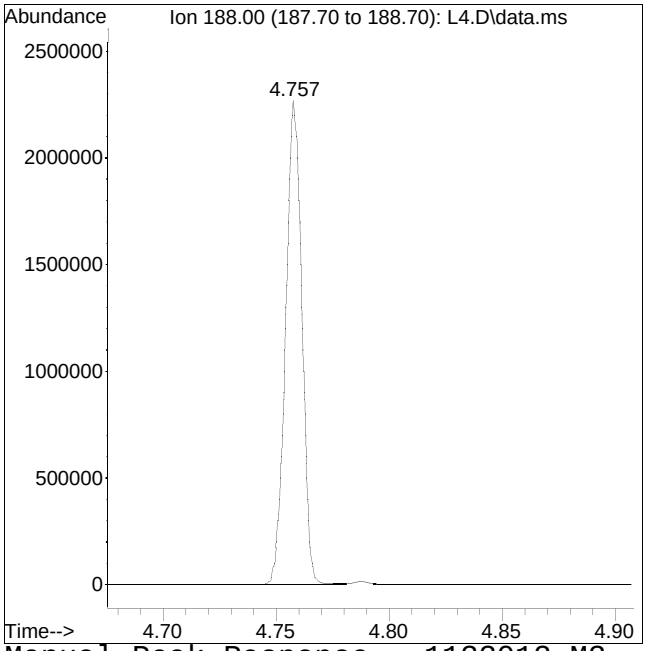
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L4.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:29 pm Instrument : SV118
Sample : IL4,32,, #10892 10 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #22: Phenanthrene-d10



Original Peak Response = 8248



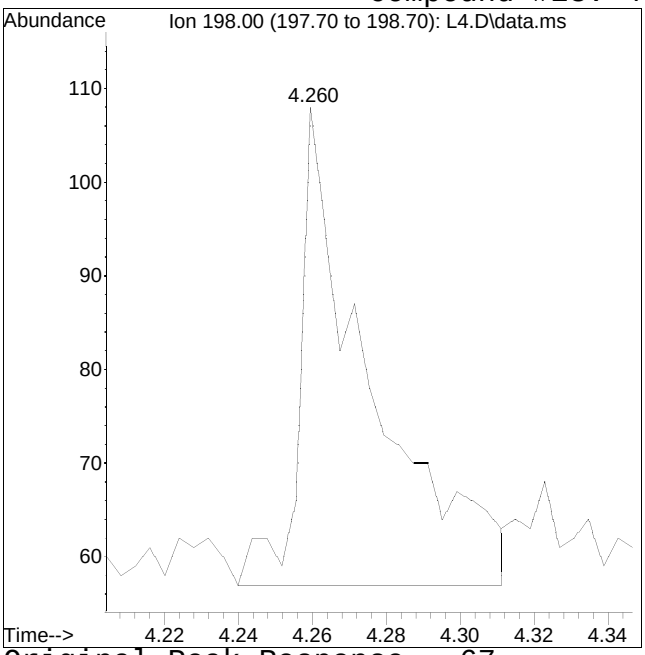
Manual Peak Response = 1133012 M3

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.

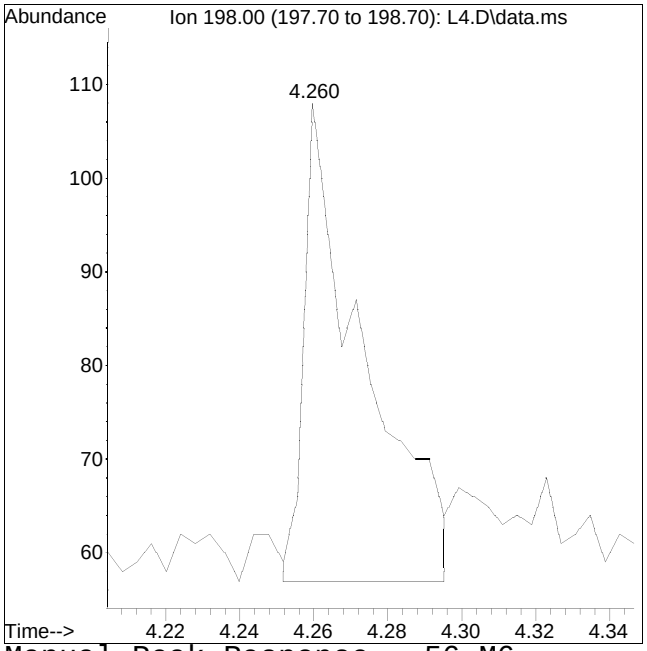
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410Q
Data File : L4.D
Date Inj'd : 10/25/2024 6:29 pm
Sample : IL4,32,, #10892 10 ng/ml
Method : SIM-RVT_241025sv118.M
Operator : SV118:dv
Instrument : SV118
Quant Date : 12/4/2024 11:33 am

Compound #23: 4,6-Dinitro-o-cresol



Original Peak Response = 67



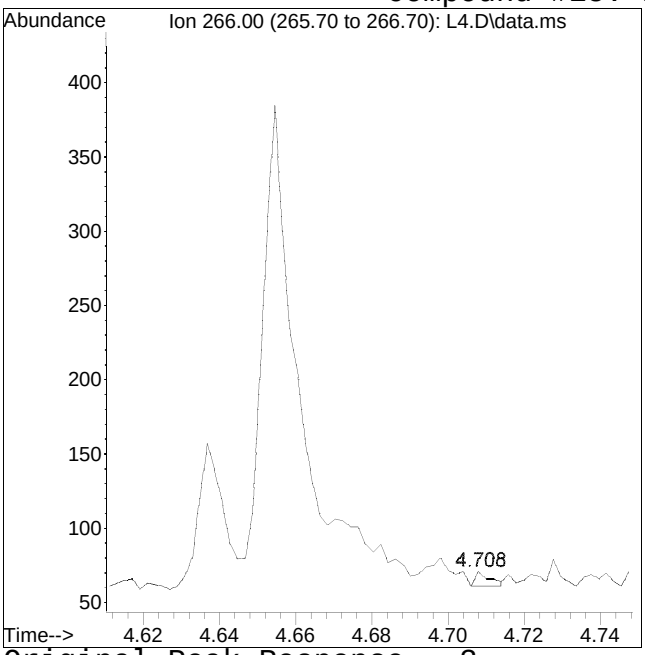
Manual Peak Response = 56 M6

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

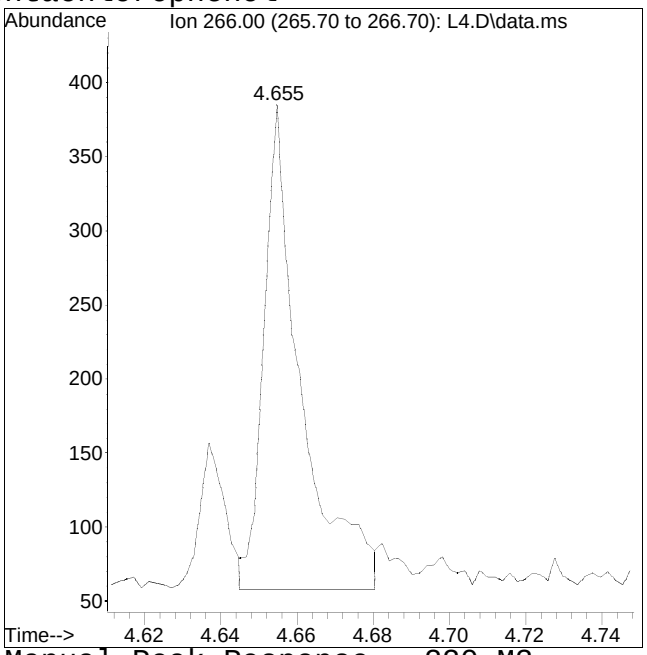
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L4.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:29 pm Instrument : SV118
Sample : IL4,32,, #10892 10 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #25: Pentachlorophenol



Original Peak Response = 3



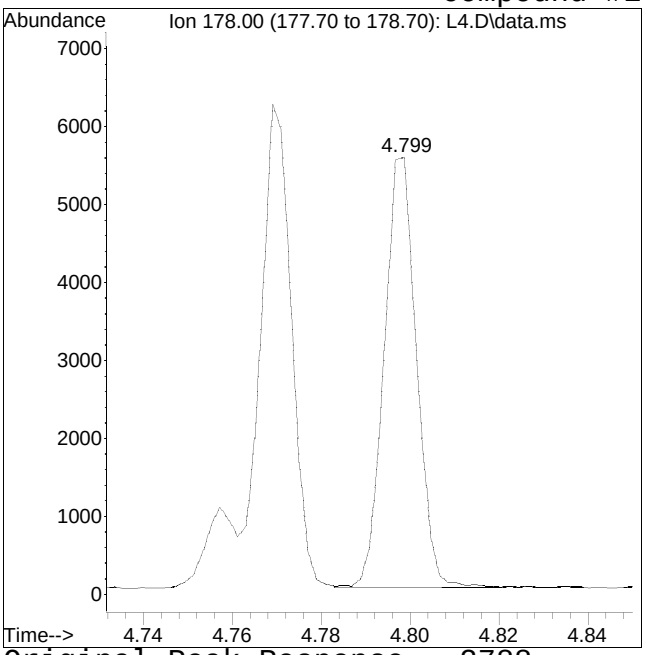
Manual Peak Response = 220 M3

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.

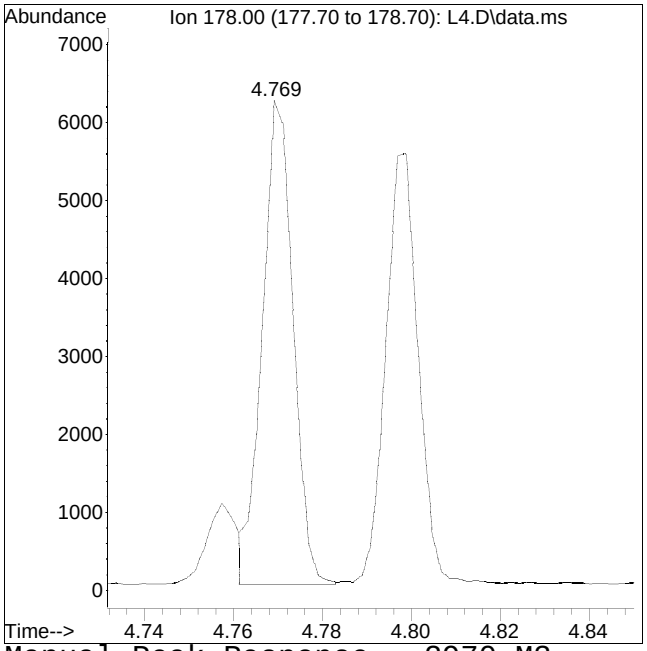
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L4.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:29 pm Instrument : SV118
Sample : IL4,32,, #10892 10 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #26: Phenanthrene



Original Peak Response = 2788



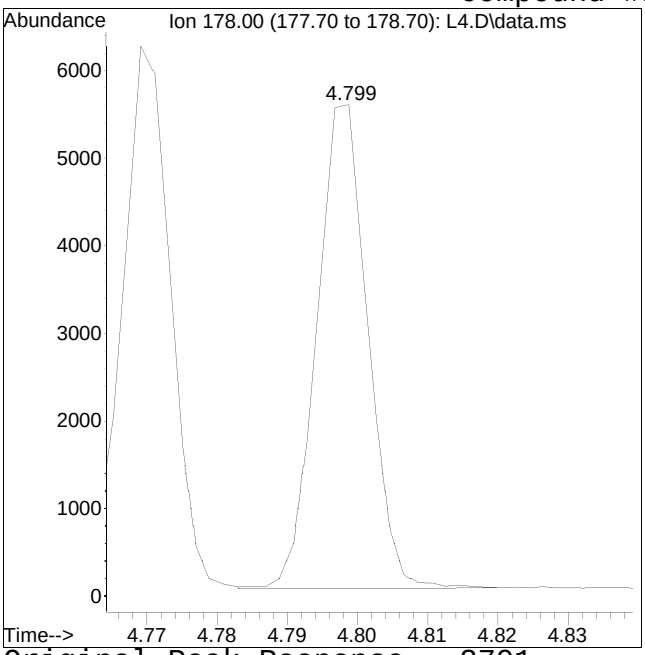
Manual Peak Response = 2970 M3

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.

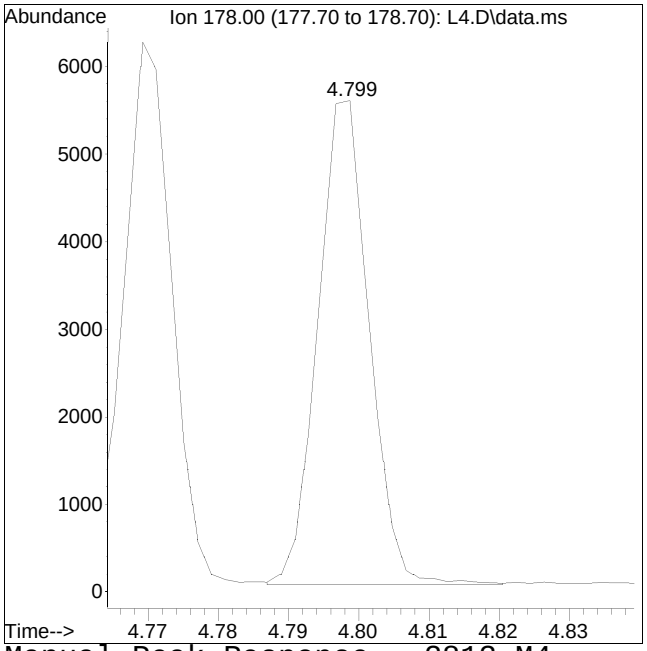
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L4.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:29 pm Instrument : SV118
Sample : IL4,32,, #10892 10 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #27: Anthracene



Original Peak Response = 2791



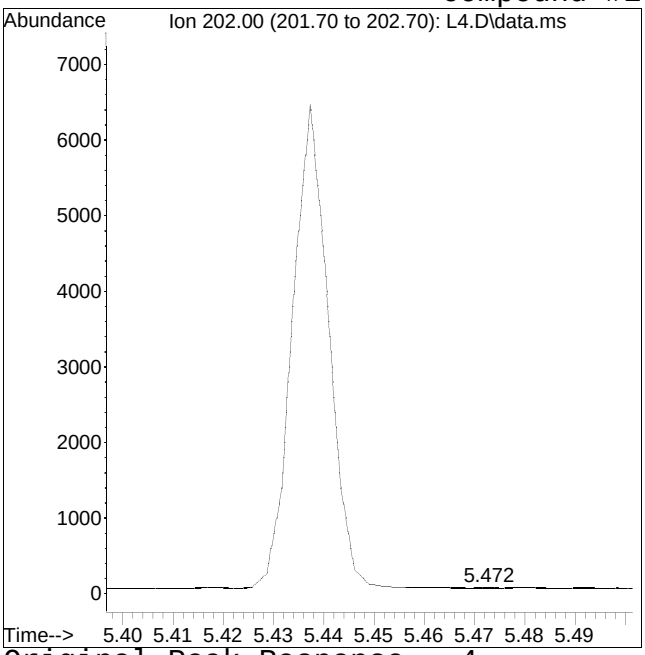
Manual Peak Response = 2813 M4

M4 = Poor automated baseline construction.

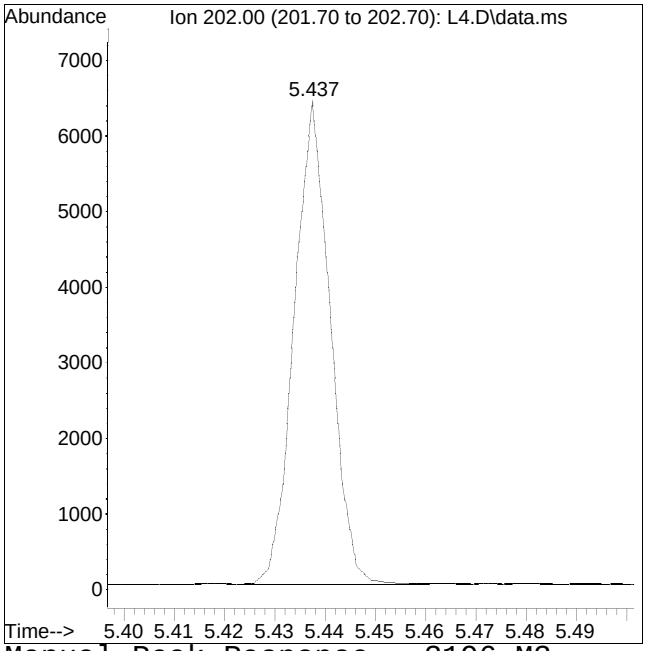
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L4.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:29 pm Instrument : SV118
Sample : IL4,32,, #10892 10 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #28: Fluoranthene



Original Peak Response = 4



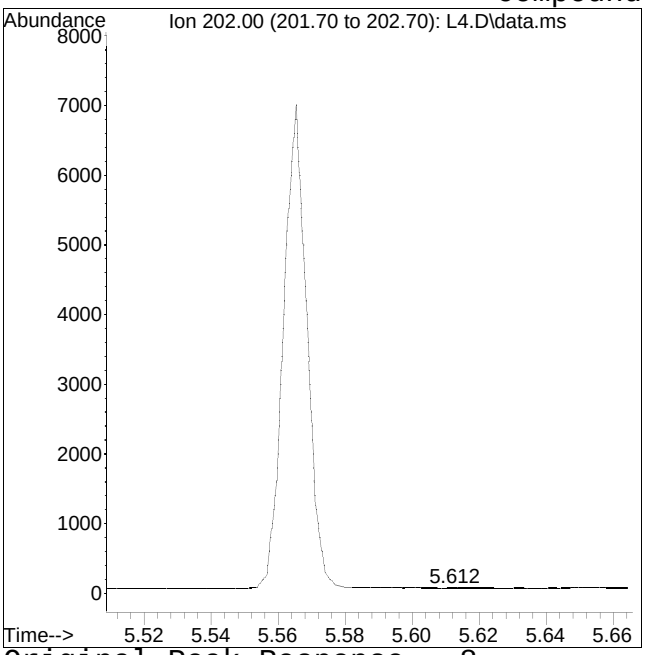
Manual Peak Response = 3196 M3

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.

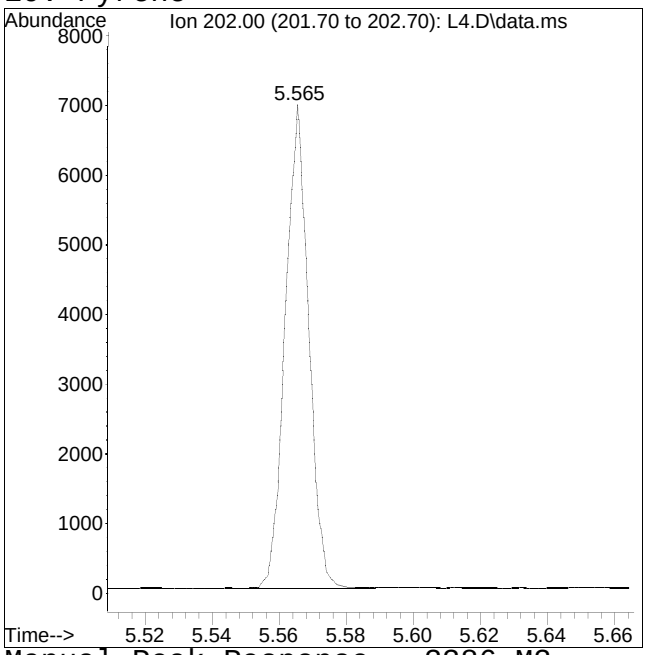
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L4.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:29 pm Instrument : SV118
Sample : IL4,32,, #10892 10 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #29: Pyrene



Original Peak Response = 8



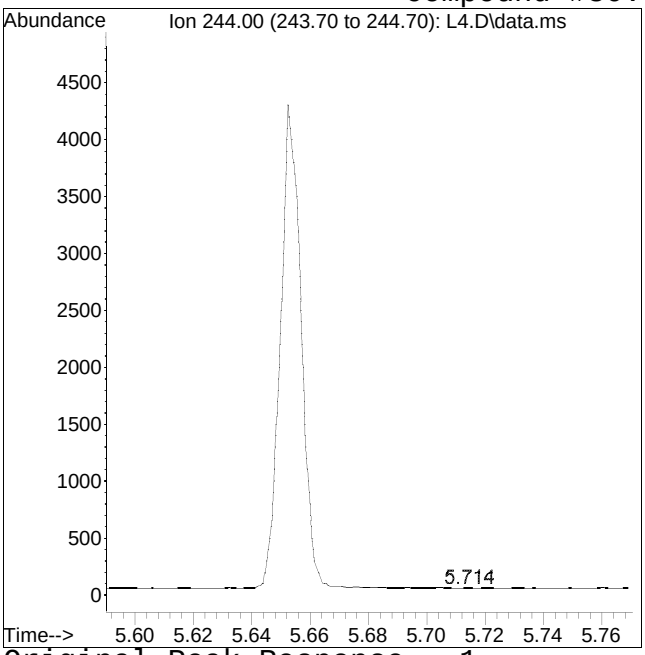
Manual Peak Response = 3386 M3

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.

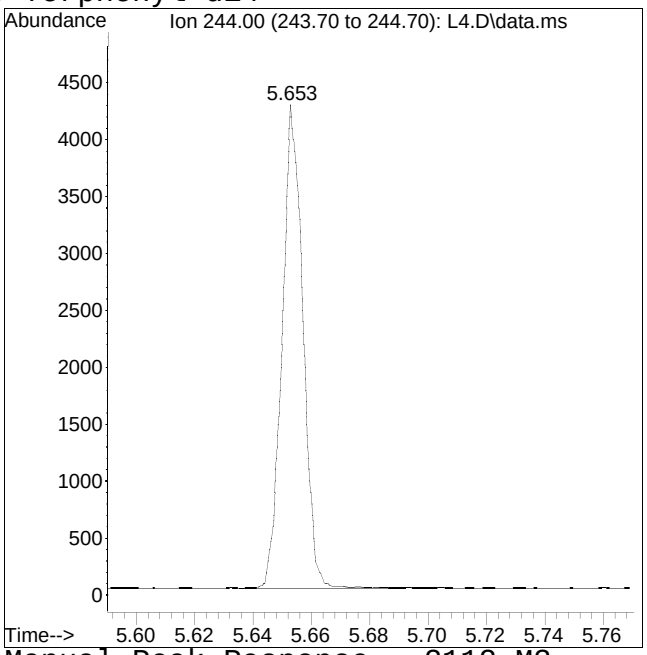
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L4.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:29 pm Instrument : SV118
Sample : IL4,32,, #10892 10 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #30: 4-Terphenyl-d14



Original Peak Response = 1



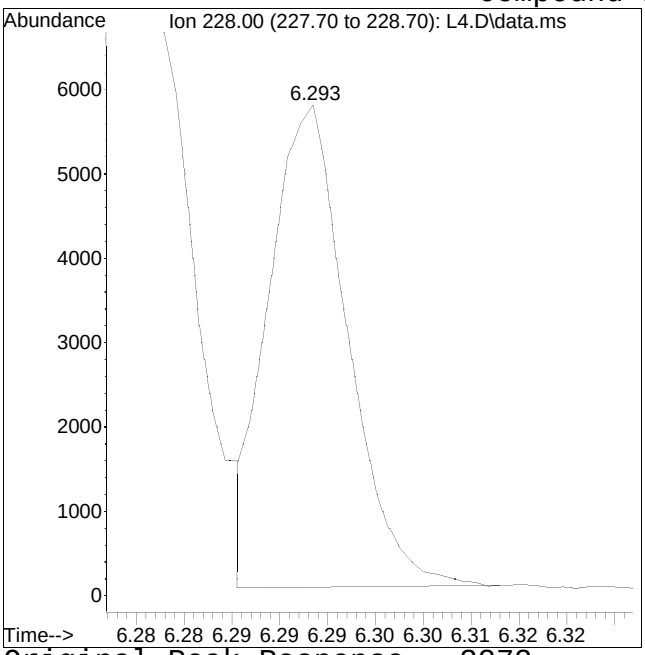
Manual Peak Response = 2112 M3

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.

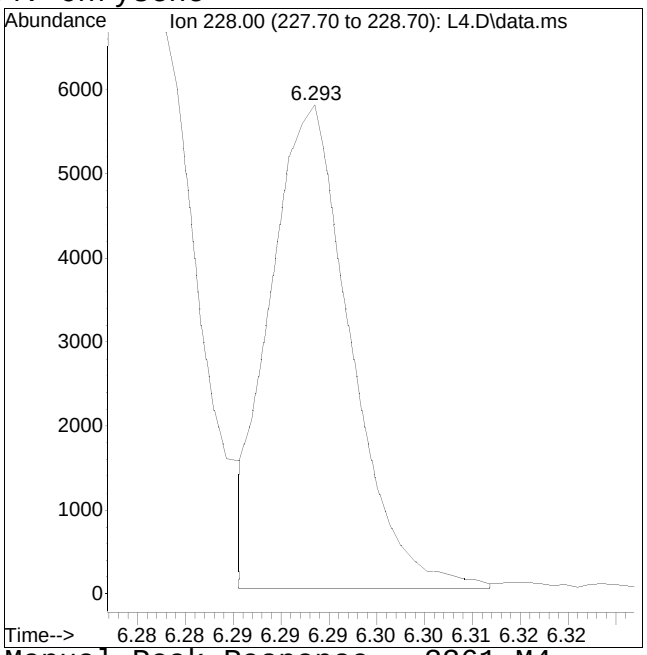
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L4.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:29 pm Instrument : SV118
Sample : IL4,32,, #10892 10 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #34: Chrysene



Original Peak Response = 3272



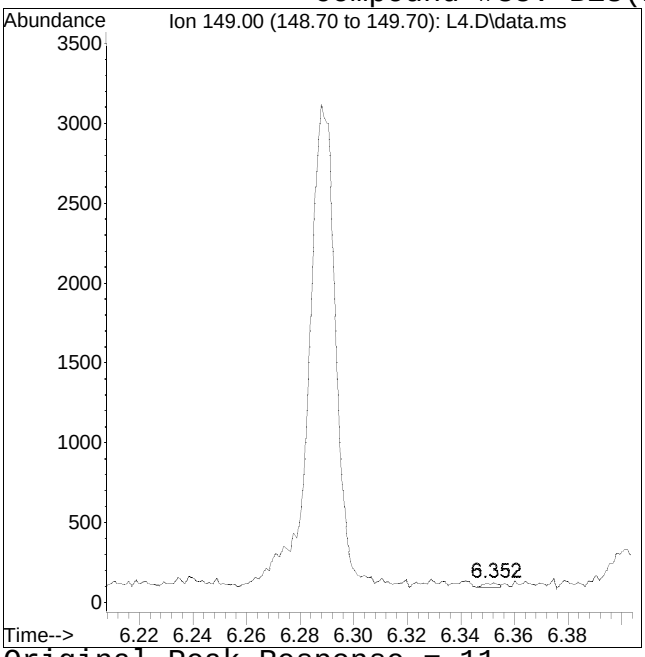
Manual Peak Response = 3361 M4

M4 = Poor automated baseline construction.

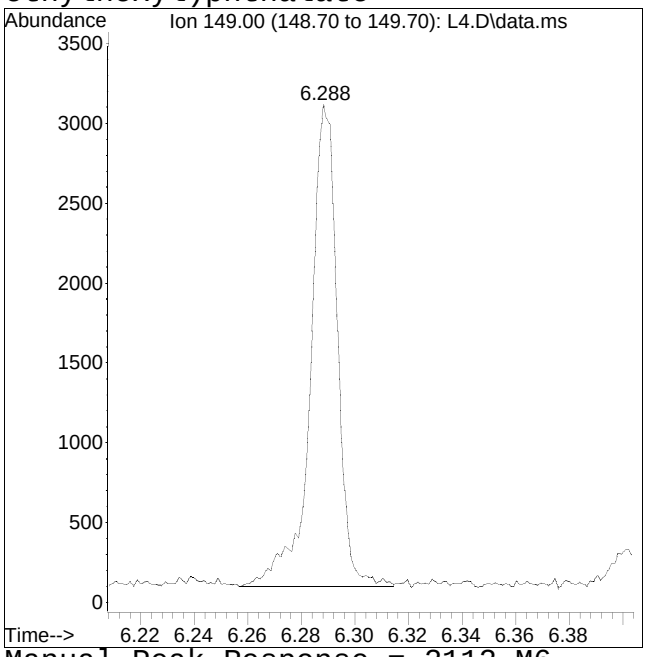
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L4.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:29 pm Instrument : SV118
Sample : IL4,32,, #10892 10 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #35: Bis(2-ethylhexyl)phthalate



Original Peak Response = 11



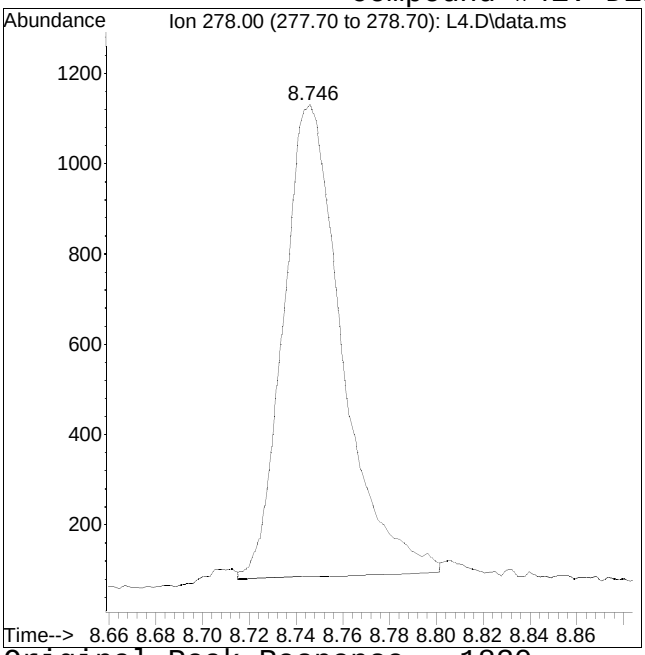
Manual Peak Response = 2112 M6

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

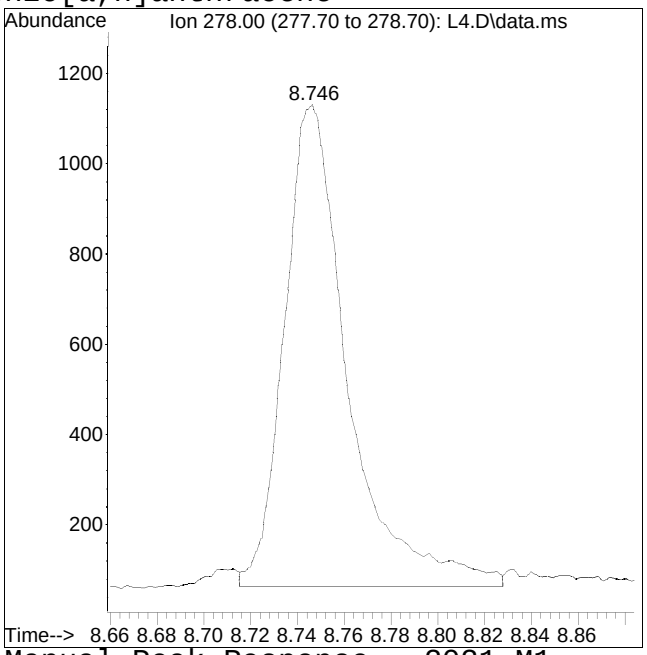
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L4.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:29 pm Instrument : SV118
Sample : IL4,32,, #10892 10 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 1830



Manual Peak Response = 2021 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\2024\241025RVTical\
Data File : L3.D
Acq On : 25 Oct 2024 06:46 pm
Operator : SV118:dv
Sample : IL3,32,, #10893 5 ng/ml
Misc : WG1990947,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 04 11:32:15 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:33:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.286	152	408539	4000.000	ng/ml	0.00
Standard Area 1 = 429824			Recovery = 95.05%			
8) Naphthalene-d8	2.950	136	1470923	4000.000	ng/ml	0.00
Standard Area 1 = 1574353			Recovery = 93.43%			
17) Acenaphthene-d10	3.927	164	796441	4000.000	ng/ml	0.00
Standard Area 1 = 863987			Recovery = 92.18%			
22) Phenanthrene-d10	4.759	188	1650601M3	4000.000	ng/ml	0.00
Standard Area 1 = 1755380			Recovery = 94.03%			
31) Chrysene-d12	6.280	240	1720270	4000.000	ng/ml	0.00
Standard Area 1 = 1692718			Recovery = 101.63%			
36) Perylene-d12	7.491	264	1776982	4000.000	ng/ml	0.00
Standard Area 1 = 1795203			Recovery = 98.99%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.690	112	556	4.814	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.24%#			
3) Phenol-d6	2.091	99	679	4.784	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.24%#			
7) Nitrobenzene-d5	2.566	82	414	4.518	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.45%#			
13) 2-Fluorobiphenyl	3.547	172	1387	4.904	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.49%#			
21) 2,4,6-Tribromophenol	4.366	330	169	4.605	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.23%#			
30) 4-Terphenyl-d14	5.652	244	1666M3	4.933	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.49%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.149	93	655	2.976	ng/ml	94
5) n-nitrosodi-n-propylamine	2.487	70	432	4.813	ng/ml	97
6) Hexachloroethane	2.546	117	262	5.112	ng/ml	82
9) Naphthalene	2.962	128	2003M7	5.173	ng/ml	
10) Hexachlorobutadiene	3.037	225	354	5.151	ng/ml	99
11) 2-Methylnaphthalene	3.343	142	1228	4.951	ng/ml	97
12) 1-Methylnaphthalene	3.397	142	1145	4.962	ng/ml	98
14) 2-Chloronaphthalene	3.612	162	1239	4.978	ng/ml#	85
15) 2,6-Dinitrotoluene	3.805	165	178M4	5.283	ng/ml	
16) Acenaphthylene	3.846	152	1751	4.752	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L3.D
Acq On : 25 Oct 2024 06:46 pm
Operator : SV118:dv
Sample : IL3,32,, #10893 5 ng/ml
Misc : WG1990947,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 04 11:32:15 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:33:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18) Acenaphthene	3.945	153	1330	5.108	ng/ml	95
19) 2,4-Dinitrotoluene	4.032	165	158M4	28.115	ng/ml	
20) Fluorene	4.232	166	1333	4.806	ng/ml	94
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
24) Hexachlorobenzene	4.546	284	532M3	4.895	ng/ml	
25) Pentachlorophenol	4.654	266	192M6	4.750	ng/ml	
26) Phenanthrene	4.771	178	2289M3	5.108	ng/ml	
27) Anthracene	4.798	178	2178	4.953	ng/ml	98
28) Fluoranthene	5.437	202	2444M3	4.873	ng/ml	
29) Pyrene	5.565	202	2611M3	4.900	ng/ml	
32) Benzo[a]anthracene	6.273	226	1172	6.957	ng/ml#	1
33) 3,3'-Dichlorobenzidine	6.251	252	693	3.859	ng/ml#	89
34) Chrysene	6.294	228	2695	5.193	ng/ml#	97
35) Bis(2-ethylhexyl)phtha...	6.289	149	1737M3	5.804	ng/ml	
37) Benzo[b]fluoranthene	7.108	252	2126	4.641	ng/ml	100
38) Benzo[k]fluoranthene	7.134	252	2218	4.566	ng/ml	99
39) Benzo[a]pyrene	7.422	252	1767	4.366	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.711	276	1526	4.044	ng/ml#	84
41) Dibenzo[a,h]anthracene	8.745	278	1460M6	3.801	ng/ml	
42) Benzo[g,h,i]perylene	9.051	276	1734	4.384	ng/ml#	88

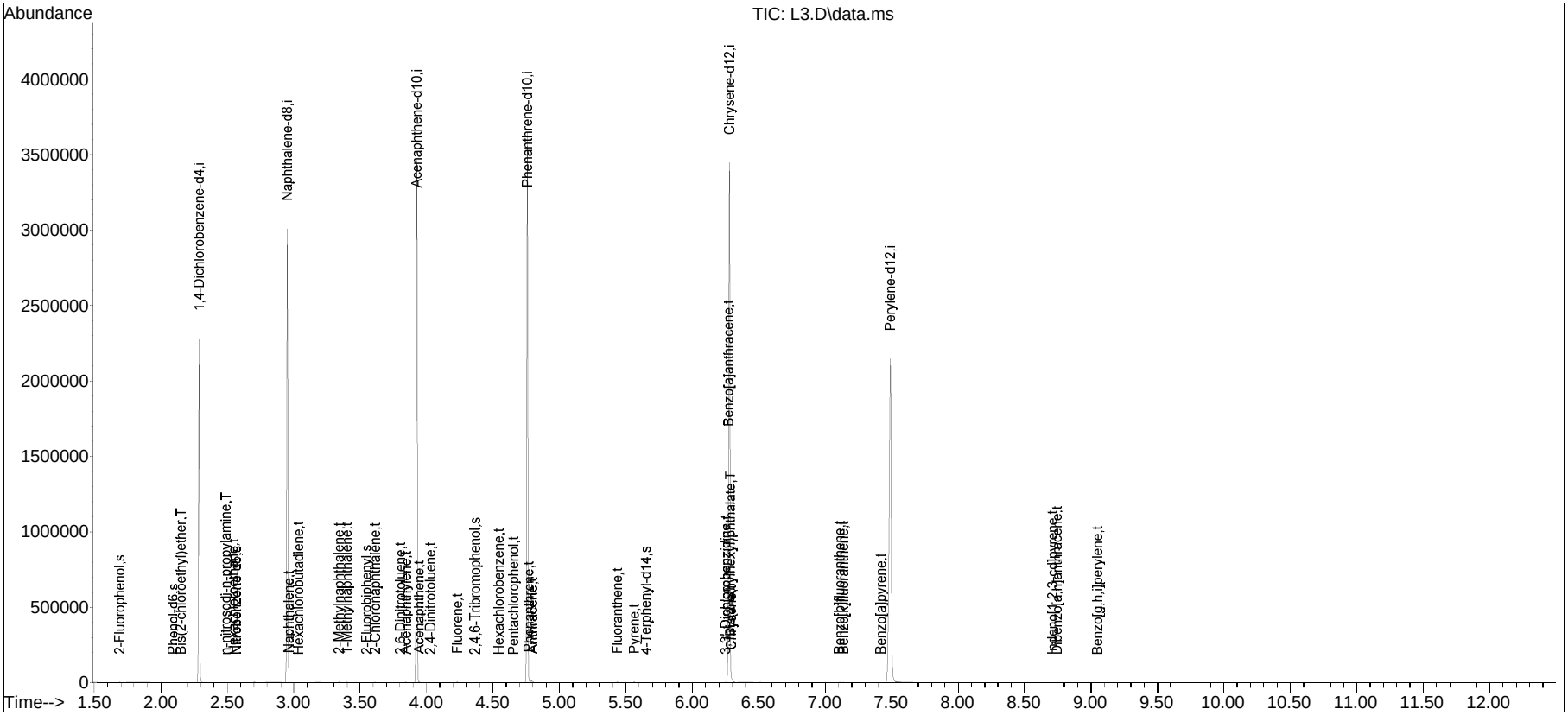
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L3.D
Acq On : 25 Oct 2024 06:46 pm
Operator : SV118:dv
Sample : IL3,32,, #10893 5 ng/ml
Misc : WG1990947,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 04 11:32:15 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:33:47 2024
Response via : Initial Calibration

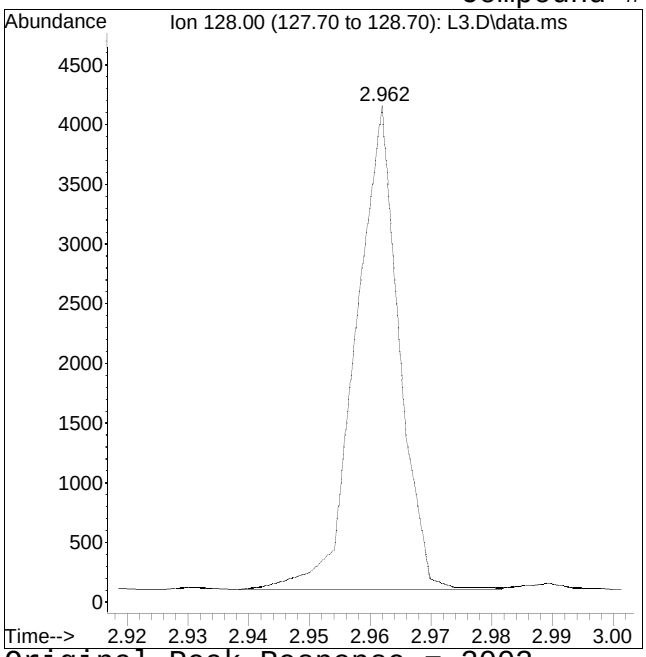
Sub List : Default - All compounds listedical\L8.D•

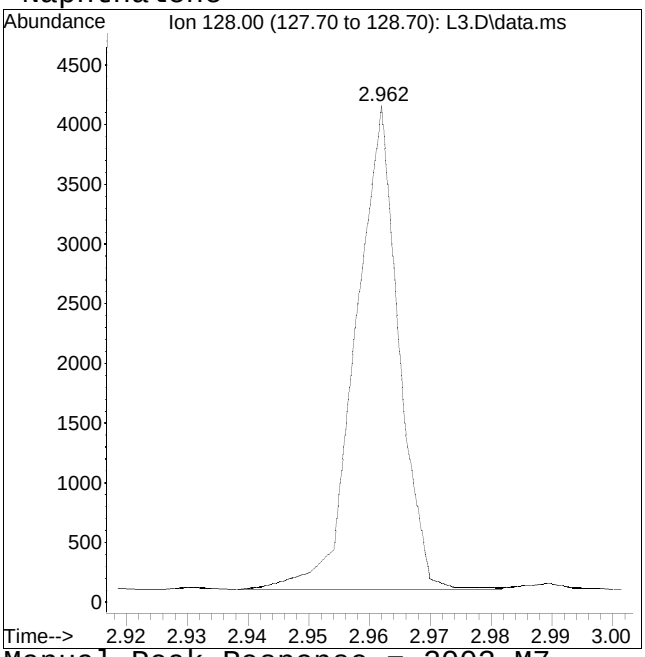


Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L3.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:46 pm Instrument : SV118
Sample : IL3,32,, #10893 5 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #9: Naphthalene



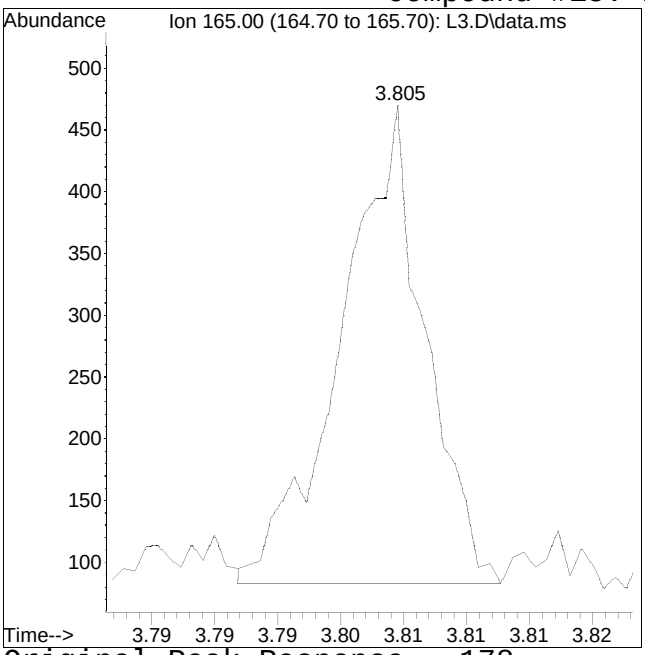


Original Peak Response = 2003 Manual Peak Response = 2003 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

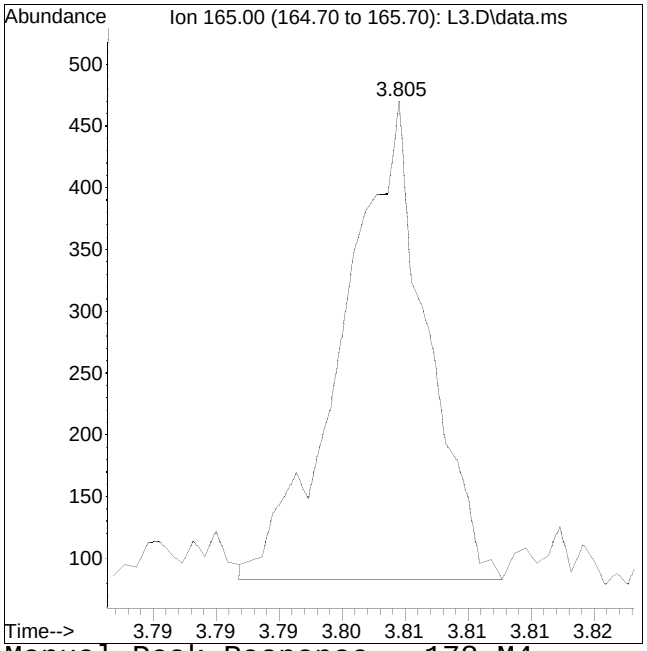
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L3.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:46 pm Instrument : SV118
Sample : IL3,32,, #10893 5 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 178



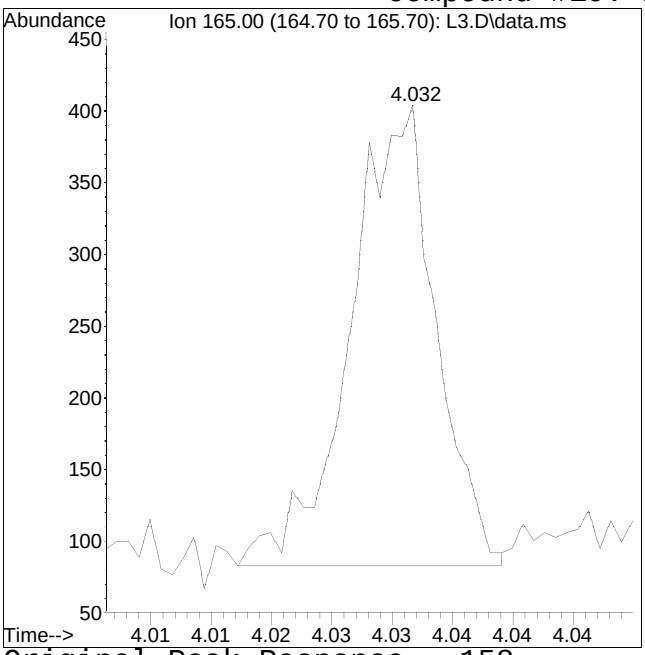
Manual Peak Response = 178 M4

M4 = Poor automated baseline construction.

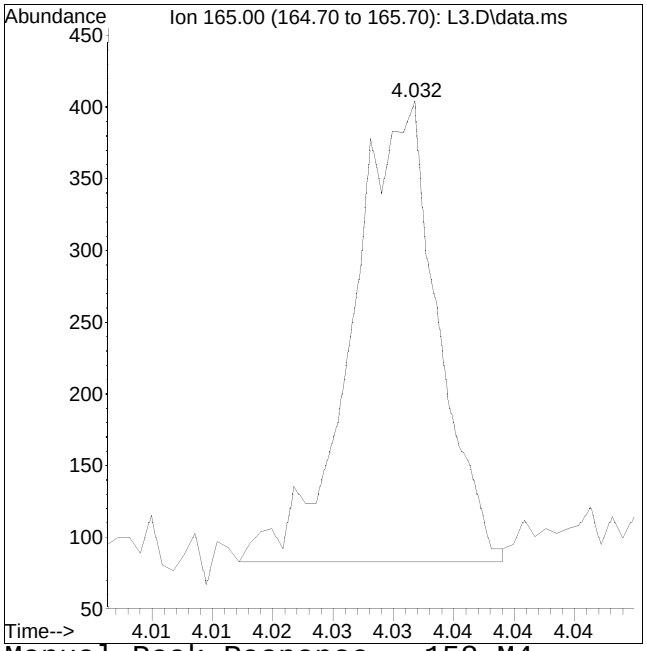
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L3.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:46 pm Instrument : SV118
Sample : IL3,32,, #10893 5 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #19: 2,4-Dinitrotoluene



Original Peak Response = 158



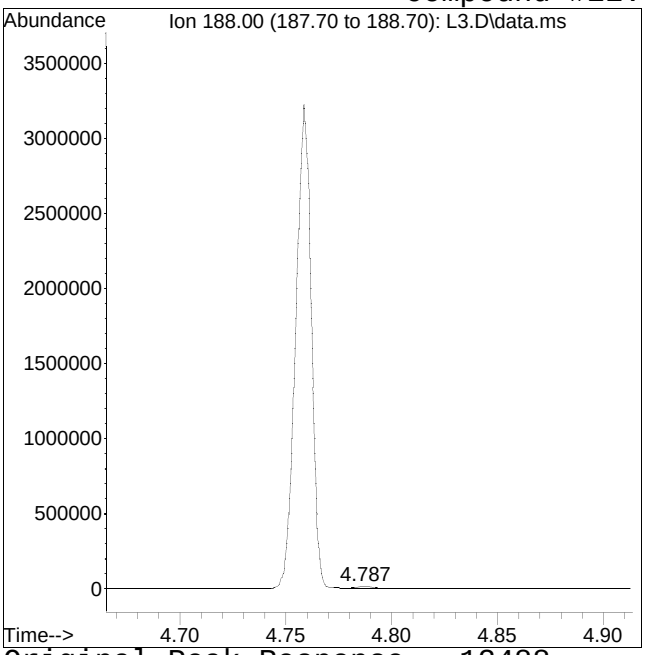
Manual Peak Response = 158 M4

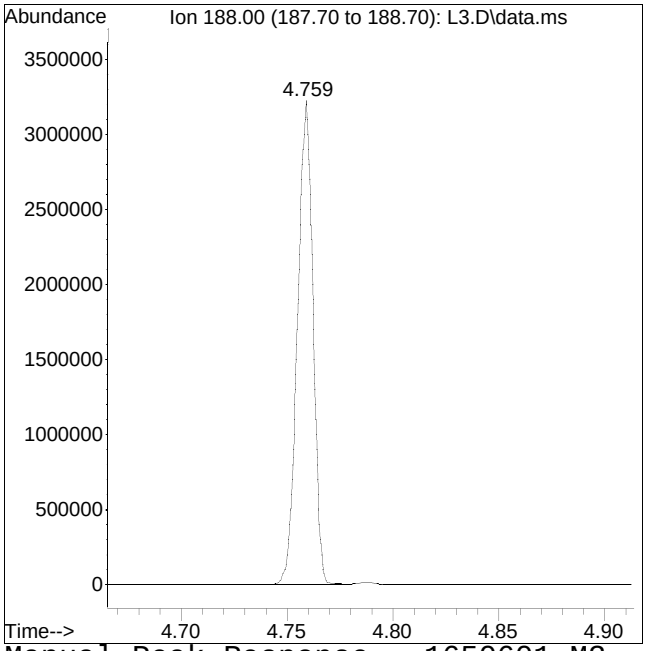
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L3.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:46 pm Instrument : SV118
Sample : IL3,32,, #10893 5 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #22: Phenanthrene-d10



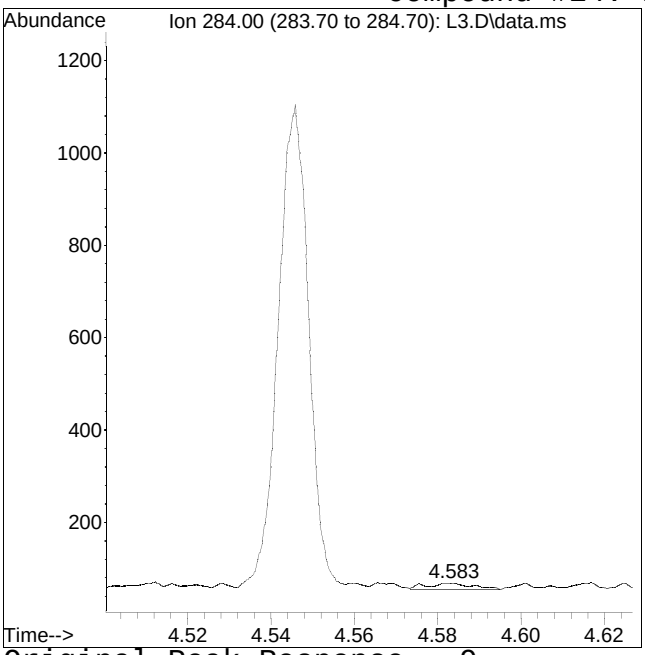


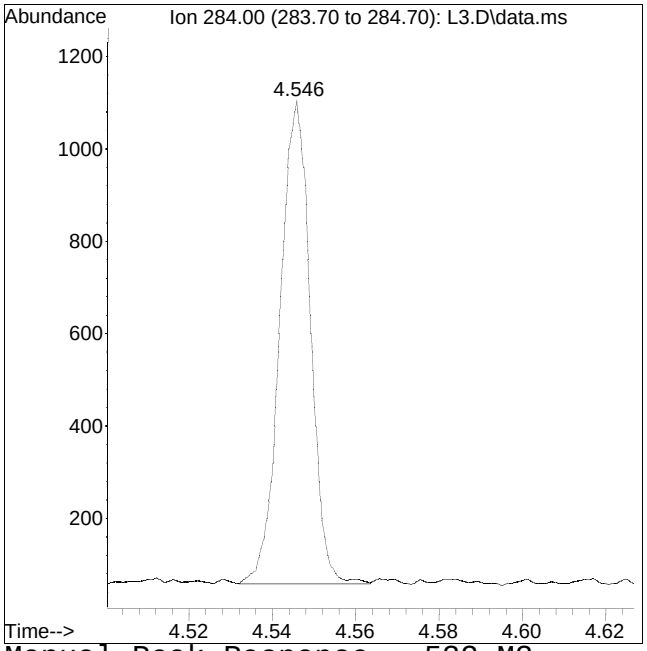
Original Peak Response = 12488 Manual Peak Response = 1650601 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L3.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:46 pm Instrument : SV118
Sample : IL3,32,, #10893 5 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #24: Hexachlorobenzene





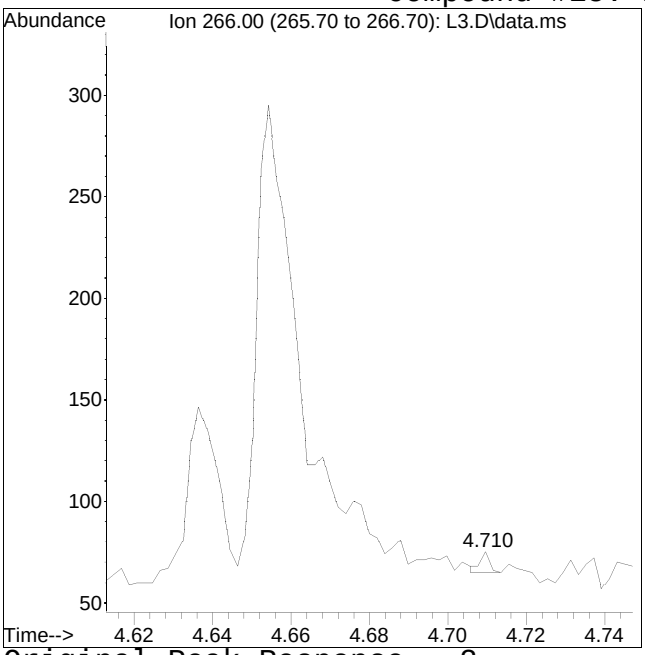
Original Peak Response = 9 Manual Peak Response = 532 M3

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.

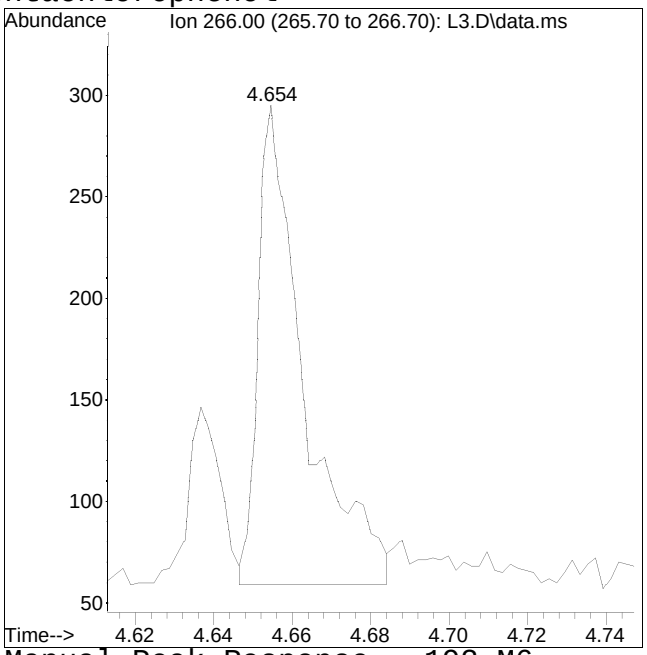
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L3.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:46 pm Instrument : SV118
Sample : IL3,32,, #10893 5 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #25: Pentachlorophenol



Original Peak Response = 2



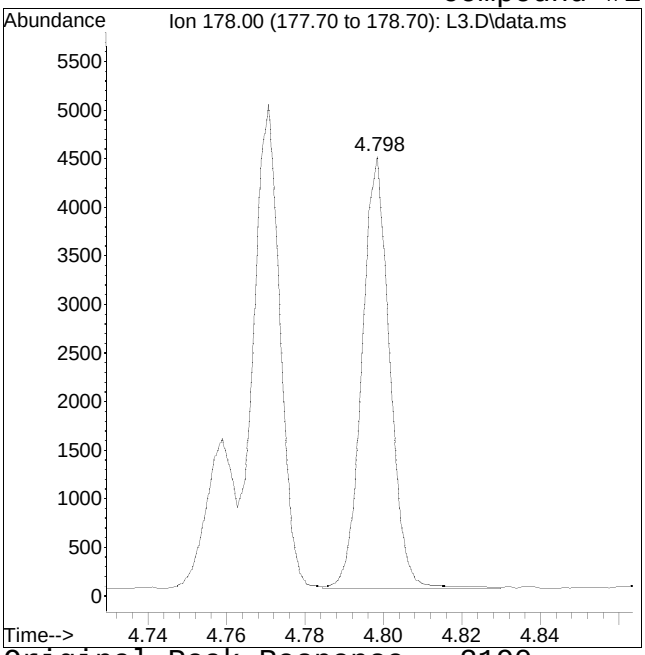
Manual Peak Response = 192 M6

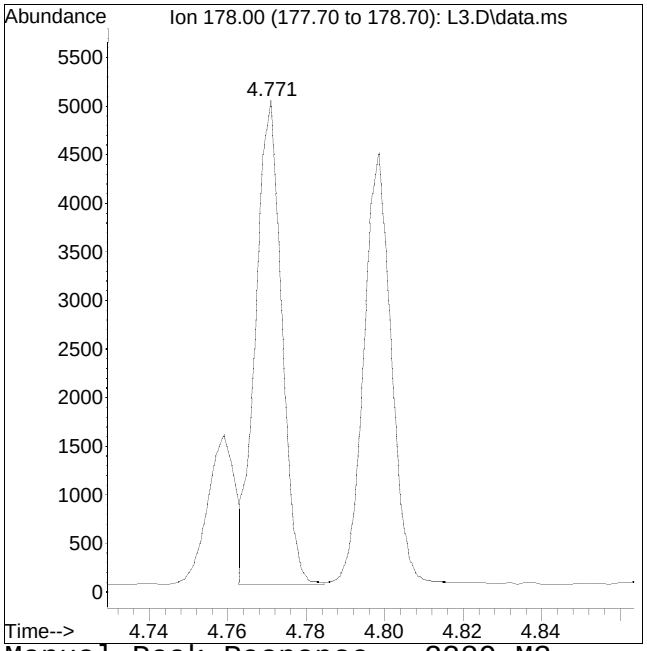
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L3.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:46 pm Instrument : SV118
Sample : IL3,32,, #10893 5 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #26: Phenanthrene





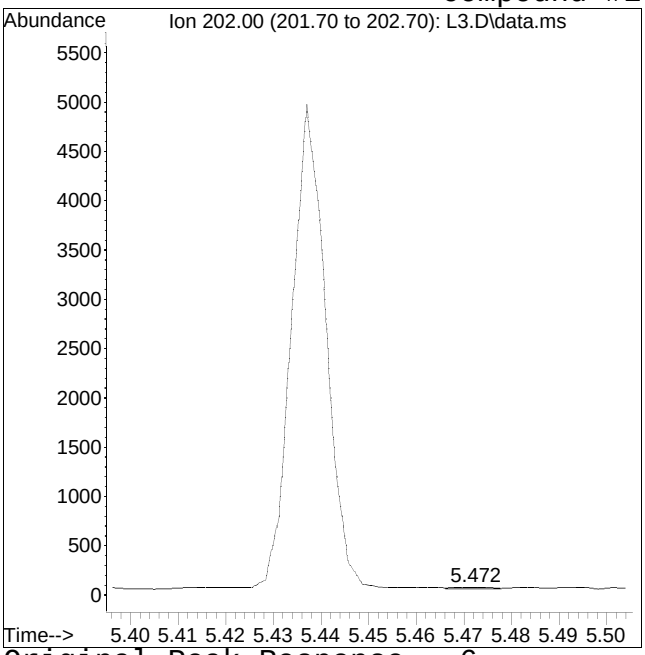
Original Peak Response = 2190 Manual Peak Response = 2289 M3

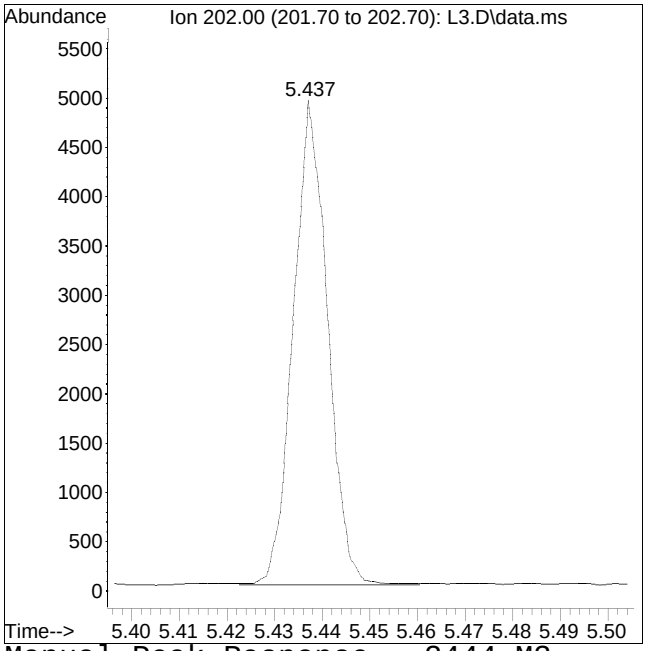
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L3.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:46 pm Instrument : SV118
Sample : IL3,32,, #10893 5 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #28: Fluoranthene





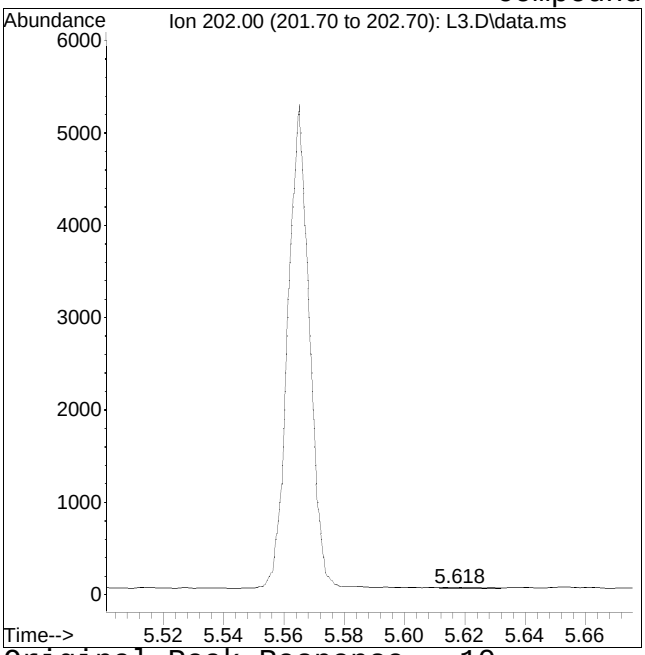
Original Peak Response = 6 Manual Peak Response = 2444 M3

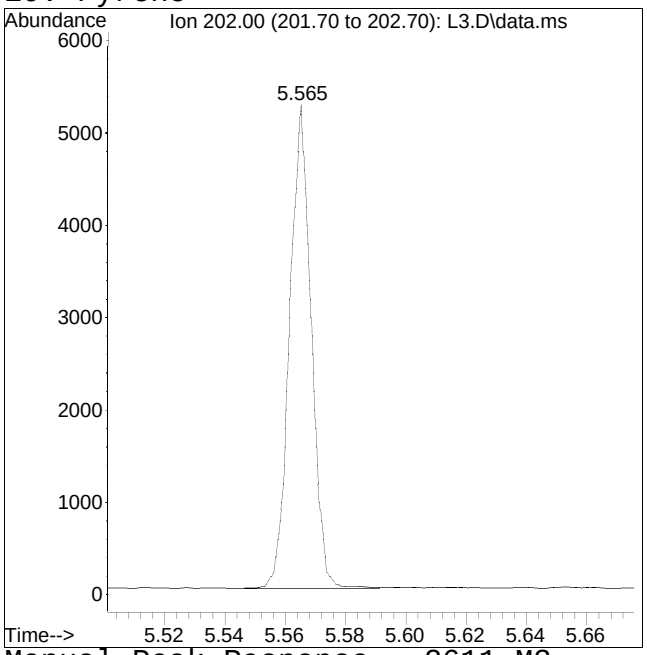
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L3.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:46 pm Instrument : SV118
Sample : IL3,32,, #10893 5 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #29: Pyrene





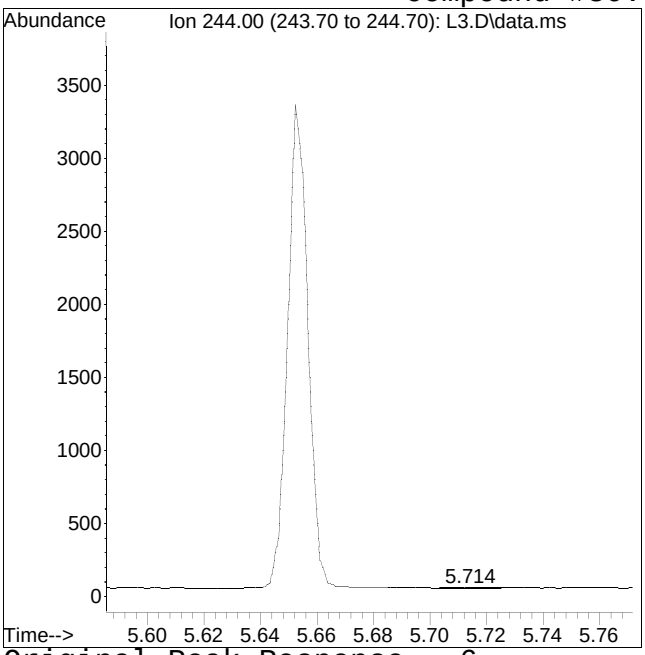
Original Peak Response = 10 Manual Peak Response = 2611 M3

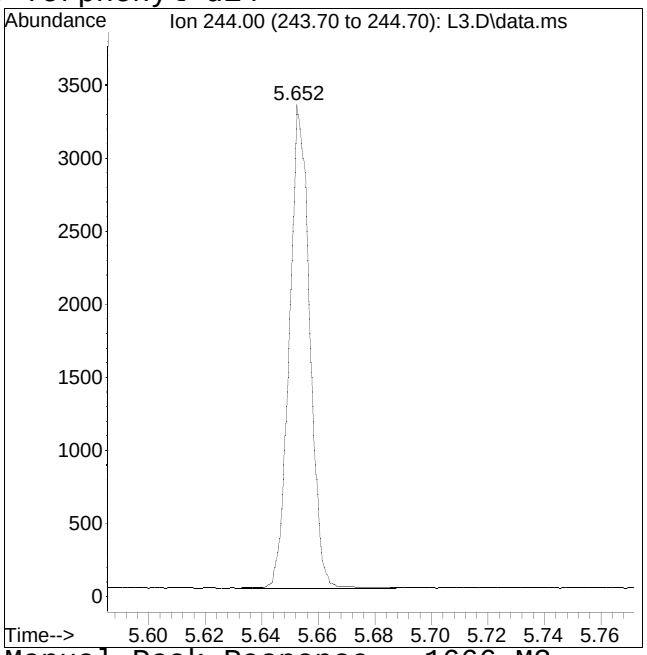
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L3.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:46 pm Instrument : SV118
Sample : IL3,32,, #10893 5 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #30: 4-Terphenyl-d14





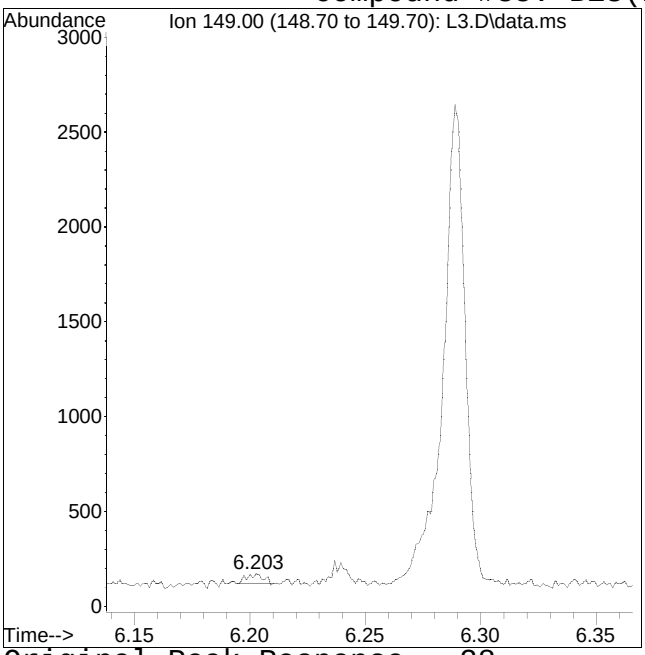
Original Peak Response = 6 Manual Peak Response = 1666 M3

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.

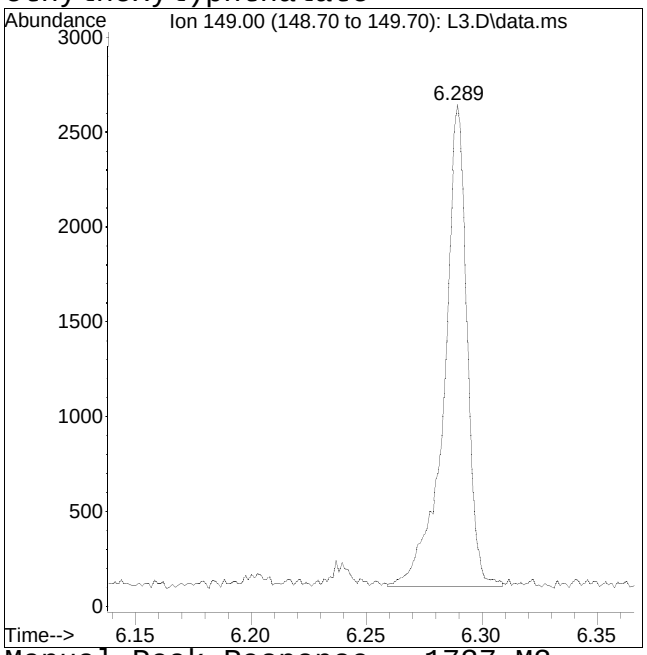
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L3.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:46 pm Instrument : SV118
Sample : IL3,32,, #10893 5 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #35: Bis(2-ethylhexyl)phthalate



Original Peak Response = 28



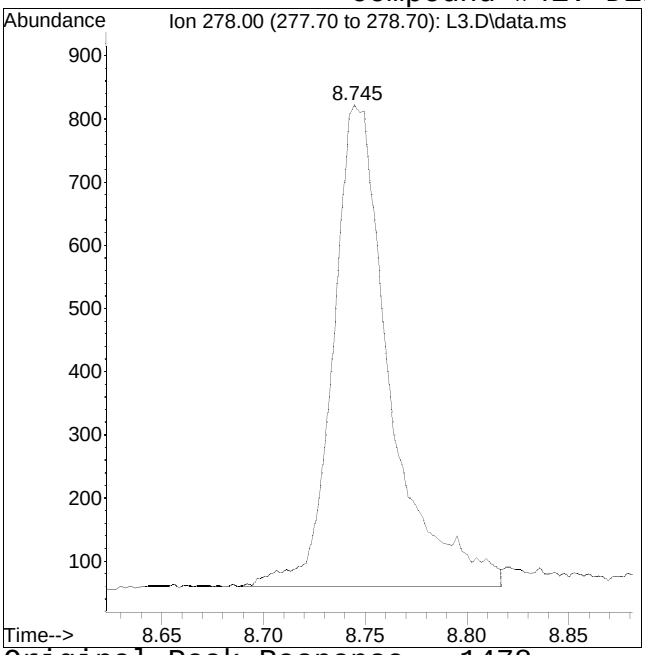
Manual Peak Response = 1737 M3

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.

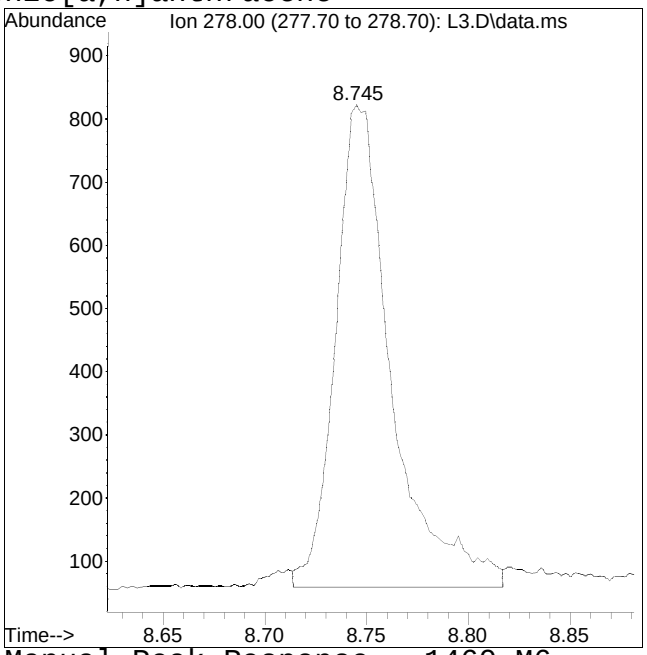
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L3.D Operator : SV118:dv
Date Inj'd : 10/25/2024 6:46 pm Instrument : SV118
Sample : IL3,32,, #10893 5 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 1478



Manual Peak Response = 1460 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L2.D
Acq On : 25 Oct 2024 07:03 pm
Operator : SV118:dv
Sample : IL2,32,, #10900 2 ng/ml
Misc : WG1990947,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 04 11:40:22 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:33:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	2.286	152	394951	4000.000 ng/ml	0.00
Standard Area 1 = 429824			Recovery = 91.89%		
8) Naphthalene-d8	2.950	136	1417787	4000.000 ng/ml	0.00
Standard Area 1 = 1574353			Recovery = 90.06%		
17) Acenaphthene-d10	3.928	164	767792	4000.000 ng/ml	0.00
Standard Area 1 = 863987			Recovery = 88.87%		
22) Phenanthrene-d10	4.759	188	1610327M3	4000.000 ng/ml	0.00
Standard Area 1 = 1755380			Recovery = 91.74%		
31) Chrysene-d12	6.280	240	1666522	4000.000 ng/ml	0.00
Standard Area 1 = 1692718			Recovery = 98.45%		
36) Perylene-d12	7.493	264	1696213	4000.000 ng/ml	0.00
Standard Area 1 = 1795203			Recovery = 94.49%		
System Monitoring Compounds					
2) 2-Fluorophenol	1.690	112	232	2.078 ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.10%#		
3) Phenol-d6	2.091	99	298	2.172 ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.11%#		
7) Nitrobenzene-d5	2.566	82	171	1.930 ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.19%#		
13) 2-Fluorobiphenyl	3.550	172	574	2.106 ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.21%#		
21) 2,4,6-Tribromophenol	4.366	330	75	2.120 ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.11%#		
30) 4-Terphenyl-d14	5.655	244	693M3	2.103 ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.21%#		
Target Compounds					Qvalue
4) Bis(2-chloroethyl)ether	2.149	93	625	2.906 ng/ml#	47
5) n-nitrosodi-n-propylamine	2.487	70	192	2.212 ng/ml#	89
6) Hexachloroethane	2.546	117	120	2.422 ng/ml#	76
9) Naphthalene	2.962	128	788M4	2.111 ng/ml	
10) Hexachlorobutadiene	3.037	225	142M6	2.144 ng/ml	
11) 2-Methylnaphthalene	3.343	142	505	2.113 ng/ml	96
12) 1-Methylnaphthalene	3.397	142	479	2.154 ng/ml	94
14) 2-Chloronaphthalene	3.612	162	503M3	2.096 ng/ml	
15) 2,6-Dinitrotoluene	0.000		0	N.D. d	
16) Acenaphthylene	3.846	152	721	2.030 ng/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L2.D
Acq On : 25 Oct 2024 07:03 pm
Operator : SV118:dv
Sample : IL2,32,, #10900 2 ng/ml
Misc : WG1990947,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 04 11:40:22 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:33:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18) Acenaphthene	3.945	153	531	2.116	ng/ml	98
19) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
20) Fluorene	4.232	166	568	2.124	ng/ml	89
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
24) Hexachlorobenzene	4.546	284	234	2.207	ng/ml	96
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	4.771	178	966M3	2.210	ng/ml	
27) Anthracene	4.798	178	889	2.072	ng/ml	94
28) Fluoranthene	5.437	202	1049M3	2.144	ng/ml	
29) Pyrene	5.565	202	1129	2.172	ng/ml	100
32) Benzo[a]anthracene	6.276	226	714	4.375	ng/ml#	1
33) 3,3'-Dichlorobenzidine	0.000		0	N.D.	d	
34) Chrysene	6.293	228	971	1.931	ng/ml#	95
35) Bis(2-ethylhexyl)phtha...	6.289	149	1370M3	4.726	ng/ml	
37) Benzo[b]fluoranthene	7.110	252	858	1.962	ng/ml	97
38) Benzo[k]fluoranthene	7.134	252	908M4	1.958	ng/ml	
39) Benzo[a]pyrene	7.422	252	700	1.812	ng/ml	98
40) Indeno[1,2,3-cd]pyrene	8.711	276	582	1.616	ng/ml#	72
41) Dibenzo[a,h]anthracene	8.747	278	582M4	1.587	ng/ml	
42) Benzo[g,h,i]perylene	9.054	276	665	1.761	ng/ml#	84

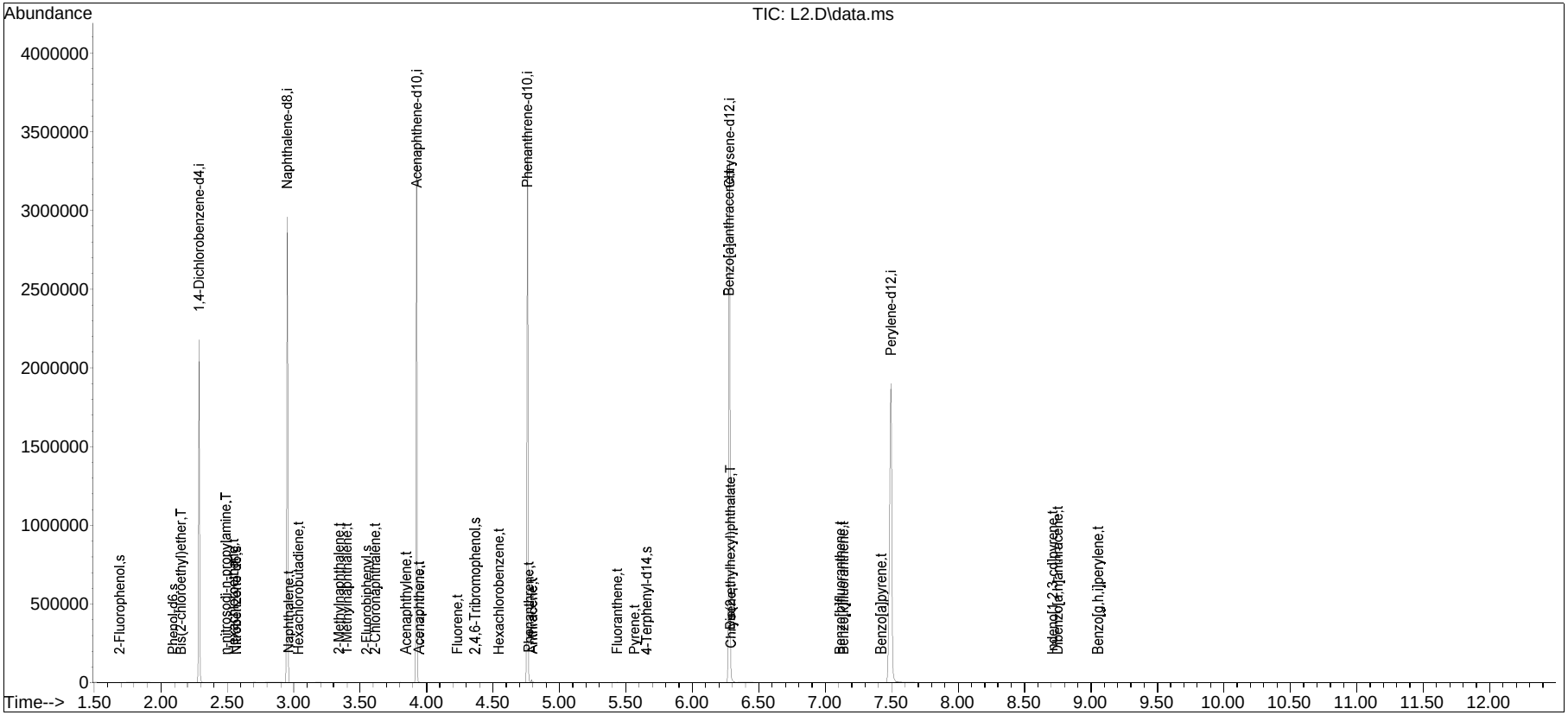
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L2.D
Acq On : 25 Oct 2024 07:03 pm
Operator : SV118:dv
Sample : IL2,32,, #10900 2 ng/ml
Misc : WG1990947,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 04 11:40:22 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:33:39 2024
Response via : Initial Calibration

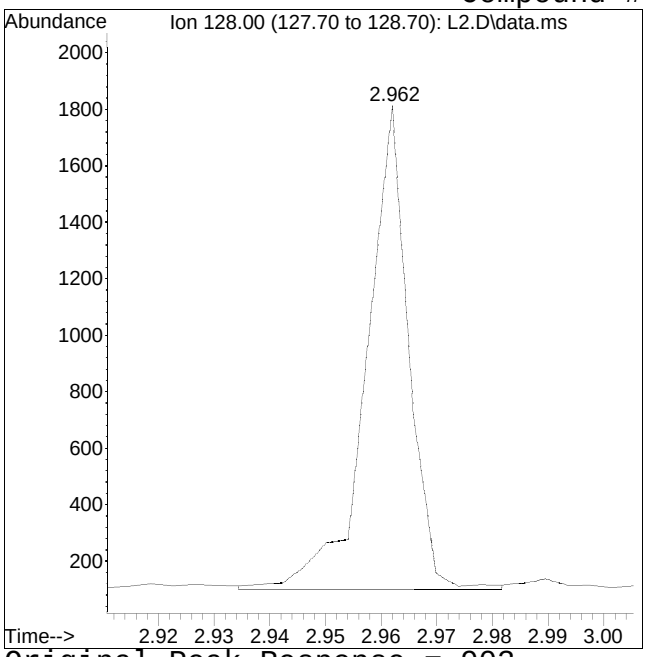
Sub List : Default - All compounds listedical\L8.D•



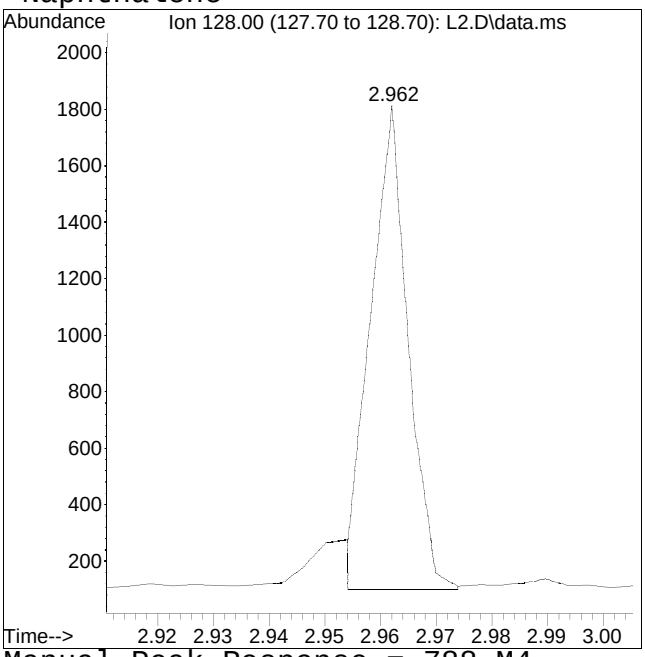
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L2.D Operator : SV118:dv
Date Inj'd : 10/25/2024 7:03 pm Instrument : SV118
Sample : IL2,32,, #10900 2 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #9: Naphthalene



Original Peak Response = 903



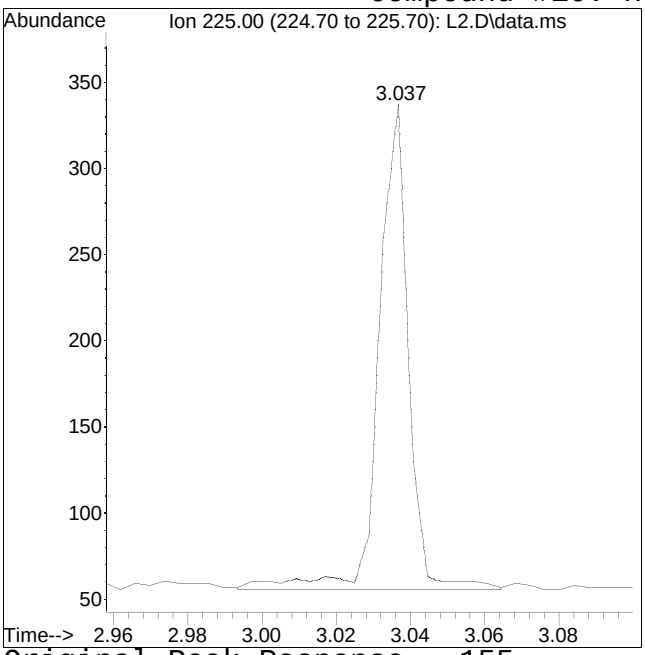
Manual Peak Response = 788 M4

M4 = Poor automated baseline construction.

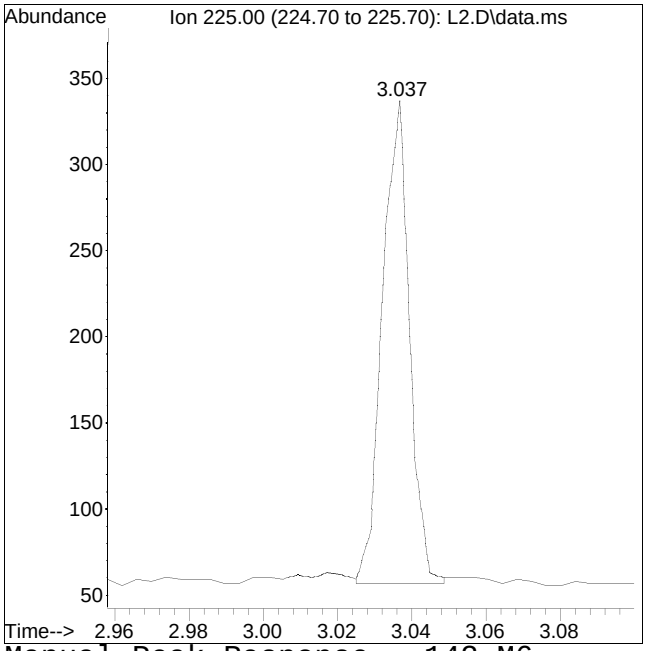
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L2.D Operator : SV118:dv
Date Inj'd : 10/25/2024 7:03 pm Instrument : SV118
Sample : IL2,32,, #10900 2 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #10: Hexachlorobutadiene



Original Peak Response = 155



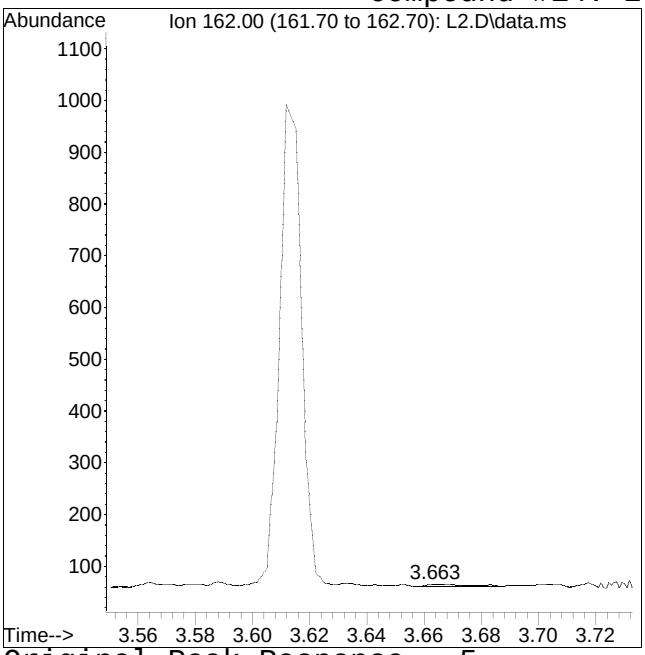
Manual Peak Response = 142 M6

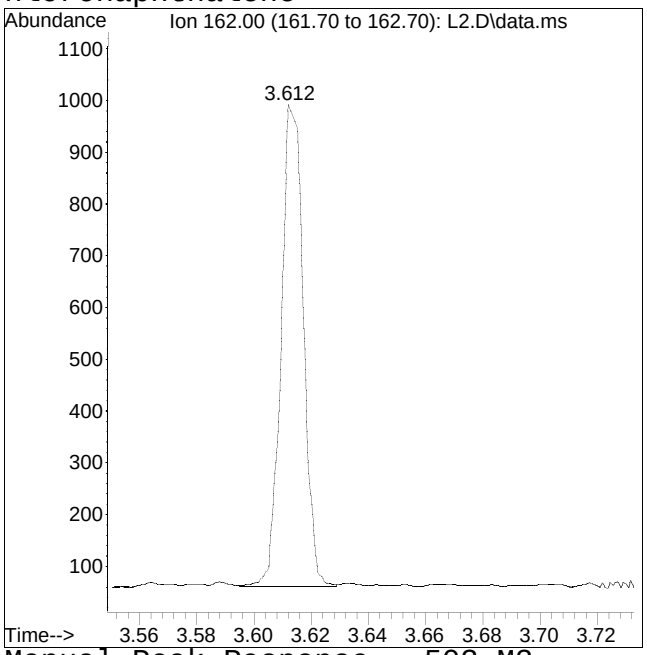
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L2.D Operator : SV118:dv
Date Inj'd : 10/25/2024 7:03 pm Instrument : SV118
Sample : IL2,32,, #10900 2 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #14: 2-Chloronaphthalene





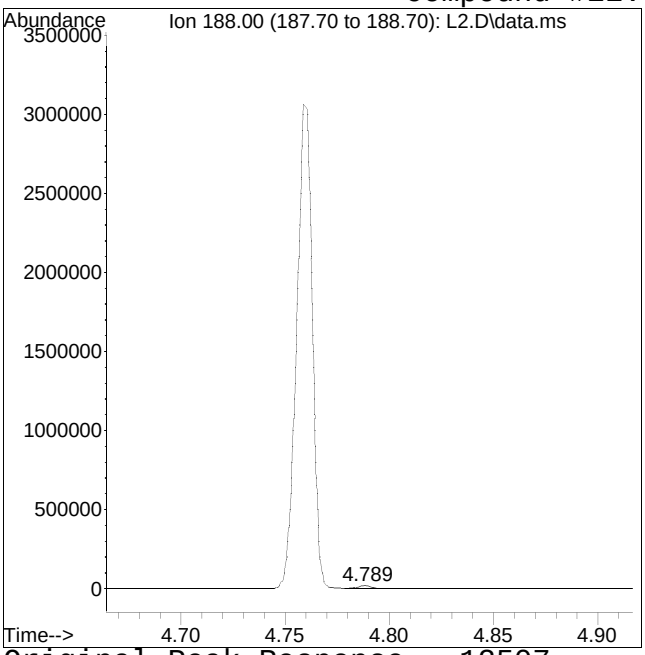
Original Peak Response = 5 Manual Peak Response = 503 M3

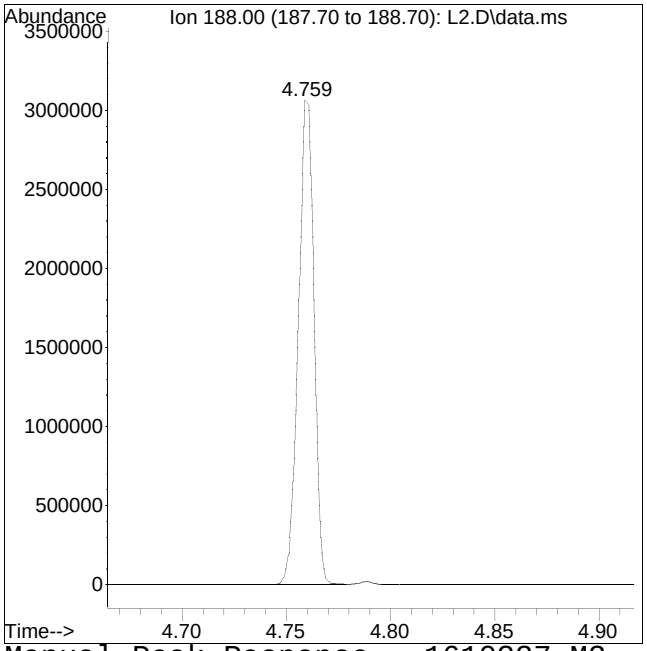
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L2.D Operator : SV118:dv
Date Inj'd : 10/25/2024 7:03 pm Instrument : SV118
Sample : IL2,32,, #10900 2 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #22: Phenanthrene-d10



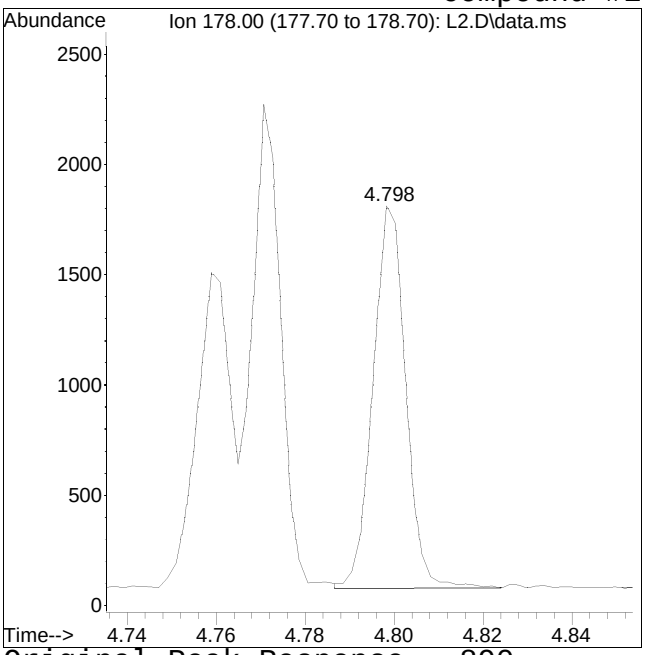


Original Peak Response = 12507 Manual Peak Response = 1610327 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

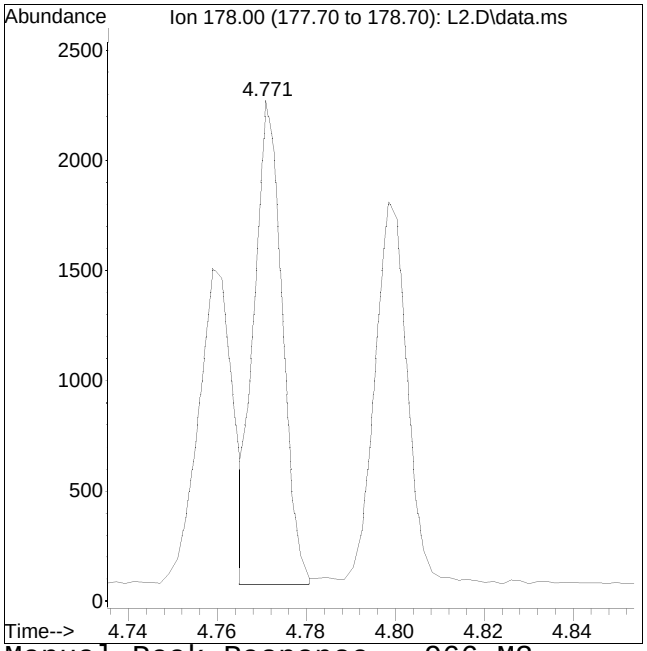
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L2.D Operator : SV118:dv
Date Inj'd : 10/25/2024 7:03 pm Instrument : SV118
Sample : IL2,32,, #10900 2 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #26: Phenanthrene



Original Peak Response = 890



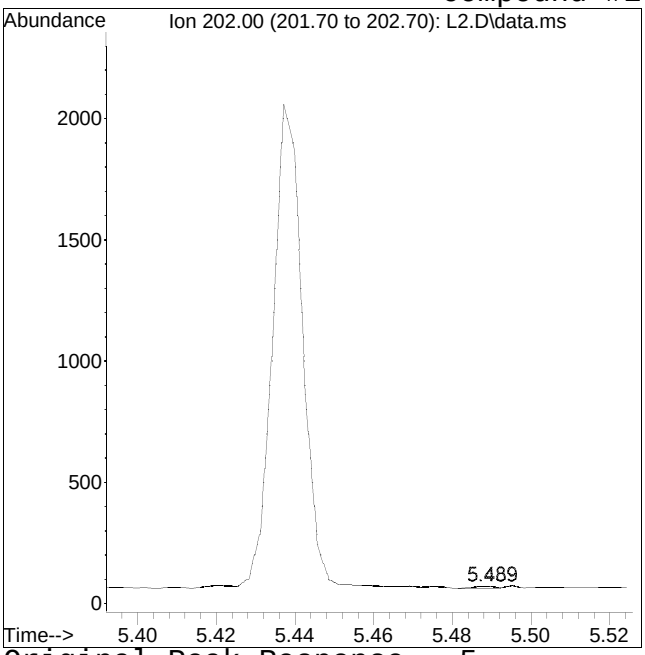
Manual Peak Response = 966 M3

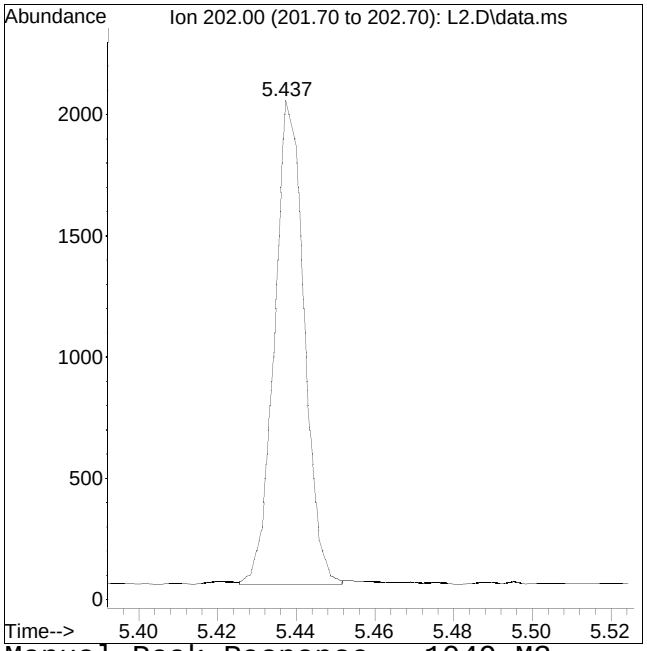
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L2.D Operator : SV118:dv
Date Inj'd : 10/25/2024 7:03 pm Instrument : SV118
Sample : IL2,32,, #10900 2 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #28: Fluoranthene





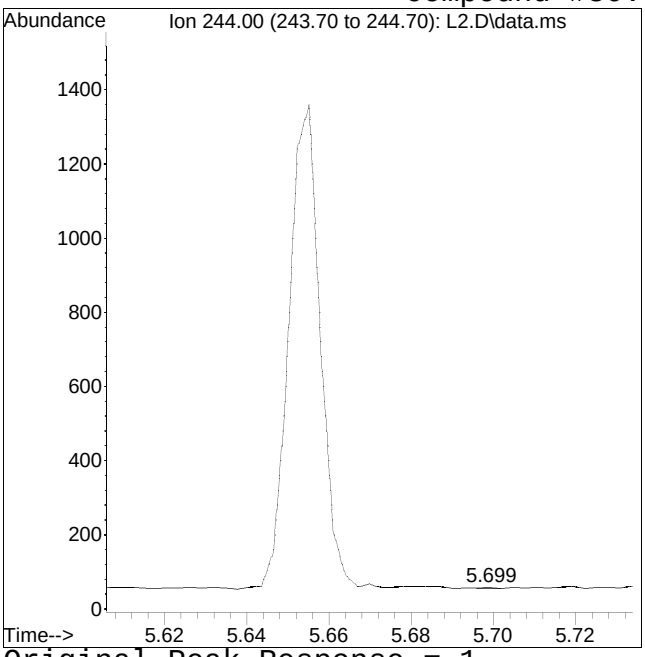
Original Peak Response = 5 Manual Peak Response = 1049 M3

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.

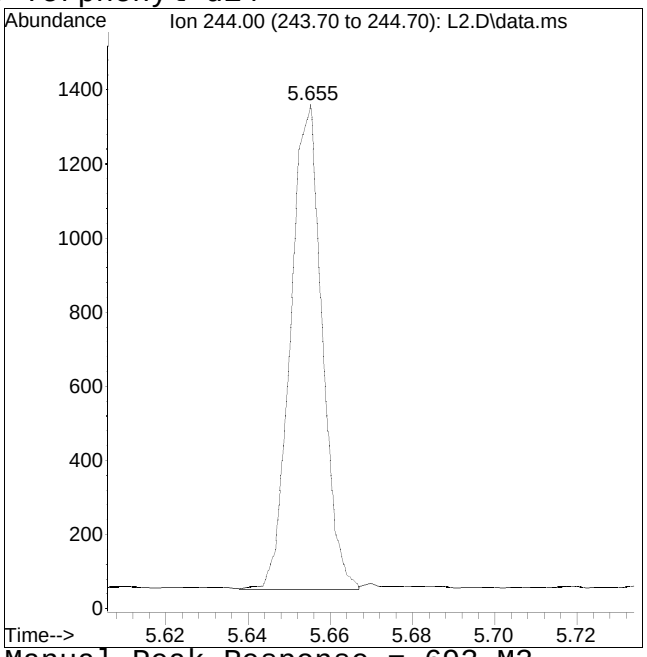
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L2.D Operator : SV118:dv
Date Inj'd : 10/25/2024 7:03 pm Instrument : SV118
Sample : IL2,32,, #10900 2 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #30: 4-Terphenyl-d14



Original Peak Response = 1



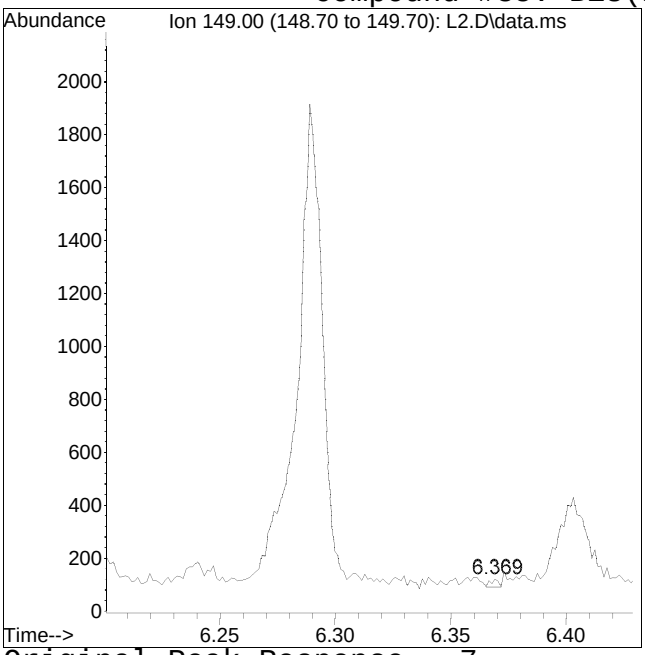
Manual Peak Response = 693 M3

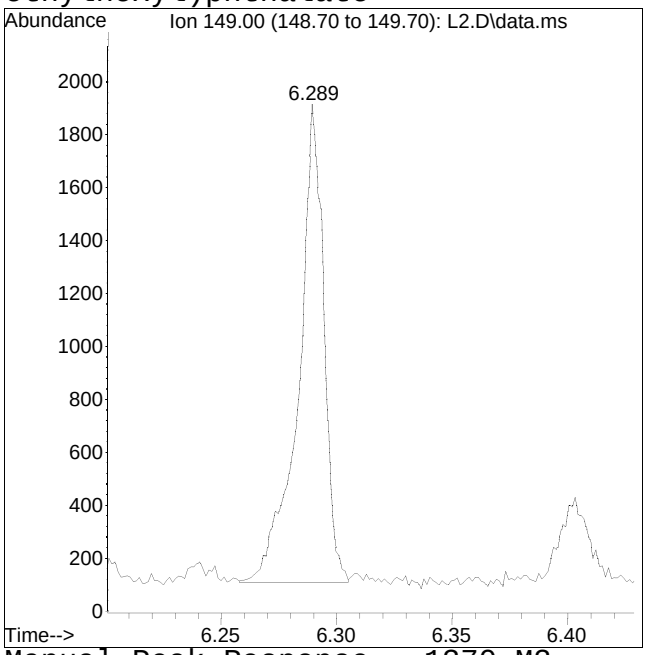
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L2.D Operator : SV118:dv
Date Inj'd : 10/25/2024 7:03 pm Instrument : SV118
Sample : IL2,32,, #10900 2 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #35: Bis(2-ethylhexyl)phthalate



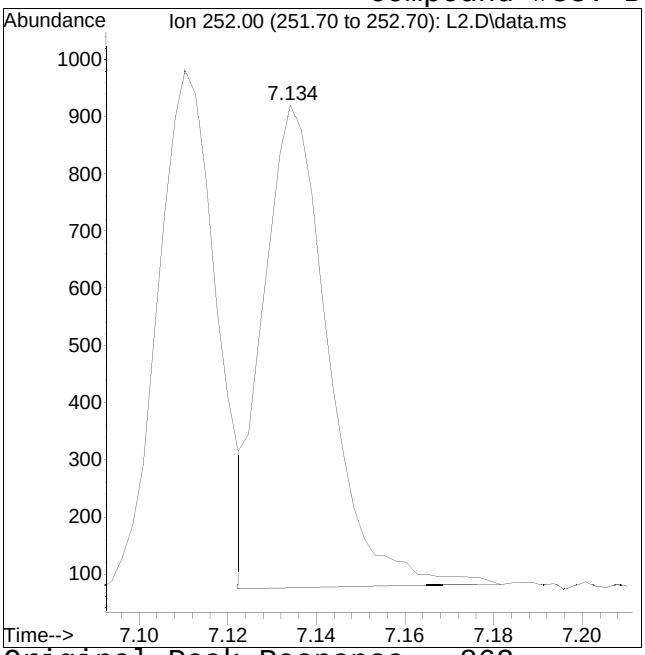


Original Peak Response = 7 Manual Peak Response = 1370 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

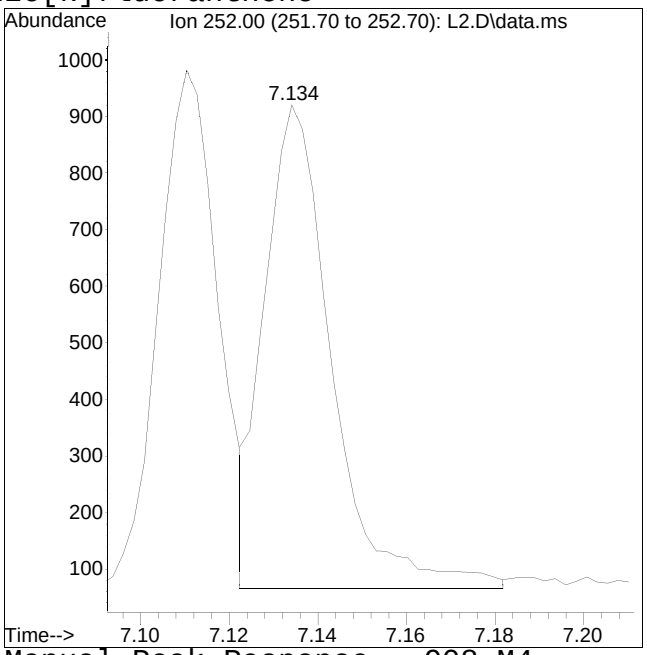
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L2.D Operator : SV118:dv
Date Inj'd : 10/25/2024 7:03 pm Instrument : SV118
Sample : IL2,32,, #10900 2 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 862



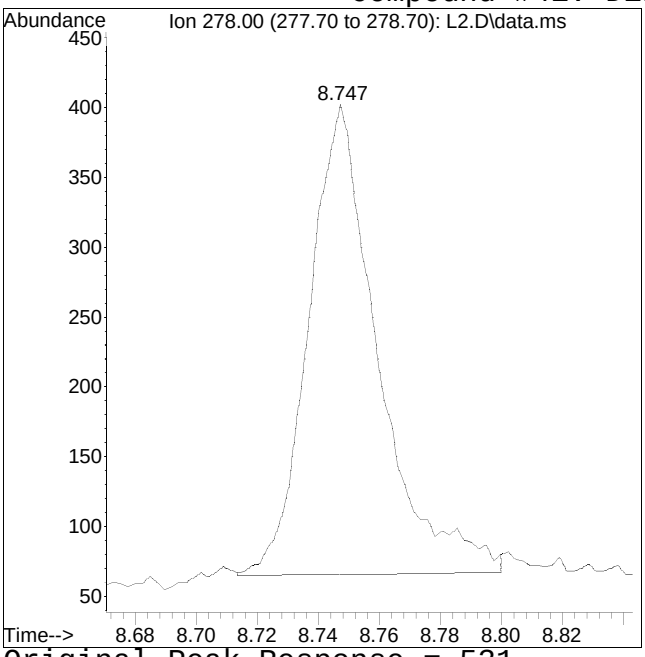
Manual Peak Response = 908 M4

M4 = Poor automated baseline construction.

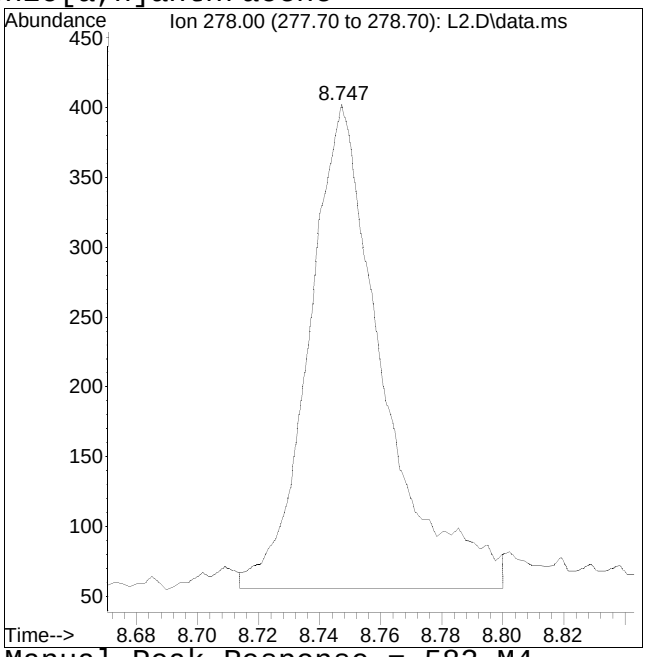
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L2.D Operator : SV118:dv
Date Inj'd : 10/25/2024 7:03 pm Instrument : SV118
Sample : IL2,32,, #10900 2 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 531



Manual Peak Response = 582 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L1.D
Acq On : 25 Oct 2024 07:21 pm
Operator : SV118:dv
Sample : IL1,32,, #10895 1 ng/ml
Misc : WG1990947,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 04 11:40:11 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:33:23 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.286	152	415774	4000.000	ng/ml	0.00
Standard Area 1 = 429824			Recovery = 96.73%			
8) Naphthalene-d8	2.950	136	1497480	4000.000	ng/ml	0.00
Standard Area 1 = 1574353			Recovery = 95.12%			
17) Acenaphthene-d10	3.928	164	811623	4000.000	ng/ml	0.00
Standard Area 1 = 863987			Recovery = 93.94%			
22) Phenanthrene-d10	4.761	188	1673672M3	4000.000	ng/ml	0.00
Standard Area 1 = 1755380			Recovery = 95.35%			
31) Chrysene-d12	6.281	240	1660718	4000.000	ng/ml	0.00
Standard Area 1 = 1692718			Recovery = 98.11%			
36) Perylene-d12	7.493	264	1700594	4000.000	ng/ml	0.00
Standard Area 1 = 1795203			Recovery = 94.73%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.690	112	132	1.123	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.06%#			
3) Phenol-d6	2.091	99	158	1.094	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.05%#			
7) Nitrobenzene-d5	2.566	82	93M3	0.997	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.10%#			
13) 2-Fluorobiphenyl	3.550	172	307	1.066	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.11%#			
21) 2,4,6-Tribromophenol	4.370	330	50	1.337	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.07%#			
30) 4-Terphenyl-d14	5.655	244	388M3	1.133	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		

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L1.D
Acq On : 25 Oct 2024 07:21 pm
Operator : SV118:dv
Sample : IL1,32,, #10895 1 ng/ml
Misc : WG1990947,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 04 11:40:11 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:33:23 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.	d	
19) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
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	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
33) 3,3'-Dichlorobenzidine	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
35) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

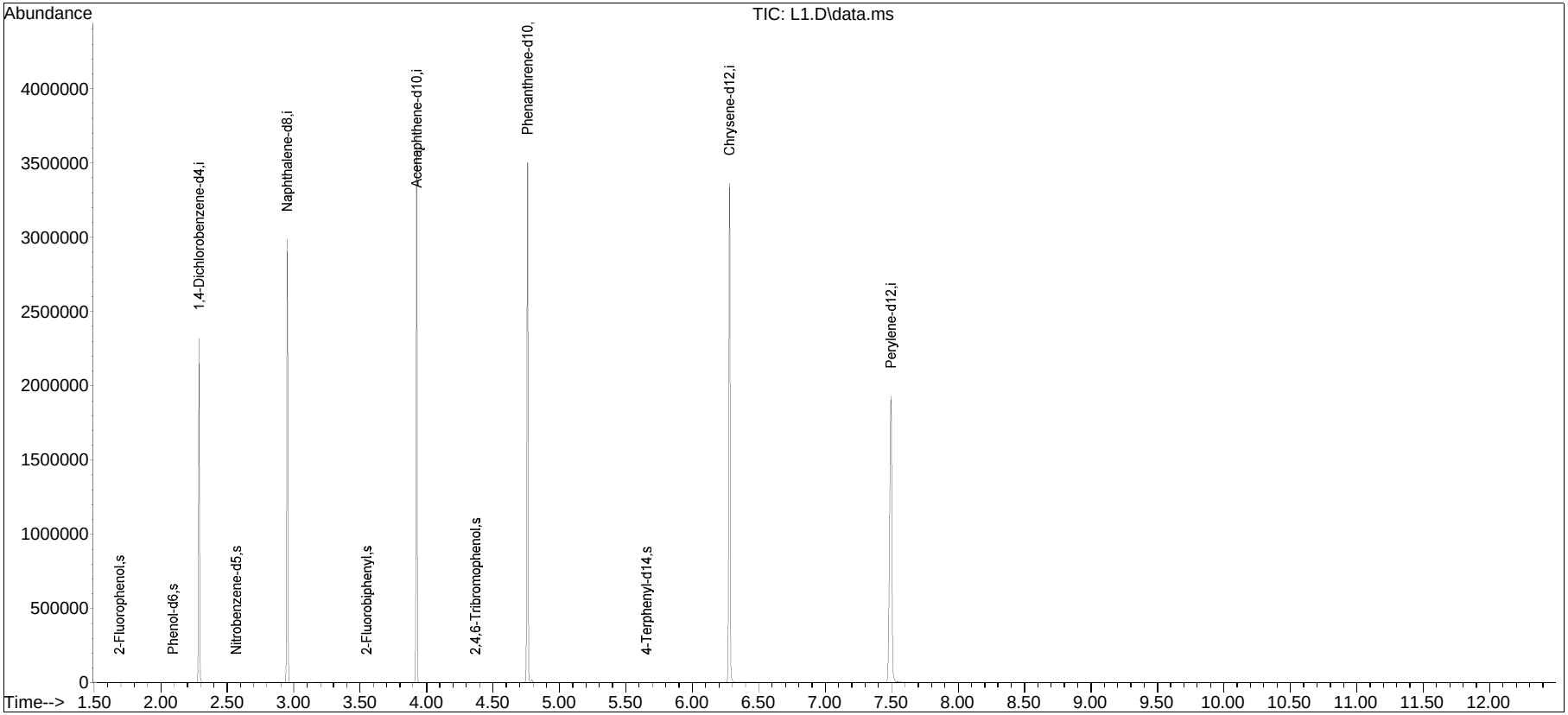
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : L1.D
Acq On : 25 Oct 2024 07:21 pm
Operator : SV118:dv
Sample : IL1,32,, #10895 1 ng/ml
Misc : WG1990947,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 04 11:40:11 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:33:23 2024
Response via : Initial Calibration

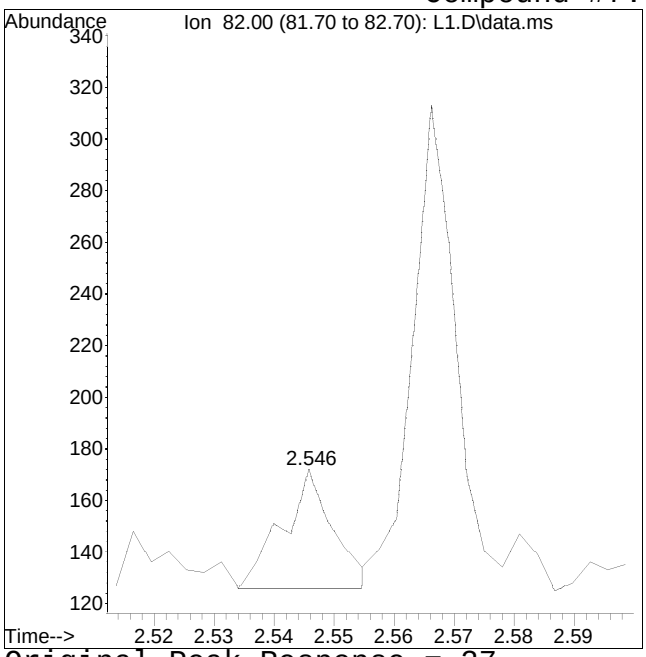
Sub List : Default - All compounds listedical\L8.D•



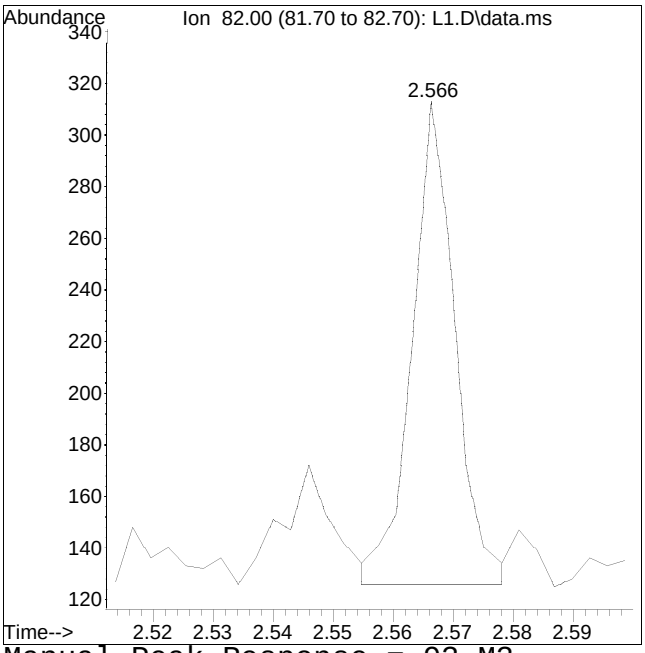
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L1.D Operator : SV118:dv
Date Inj'd : 10/25/2024 7:21 pm Instrument : SV118
Sample : IL1,32,, #10895 1 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #7: Nitrobenzene-d5



Original Peak Response = 27



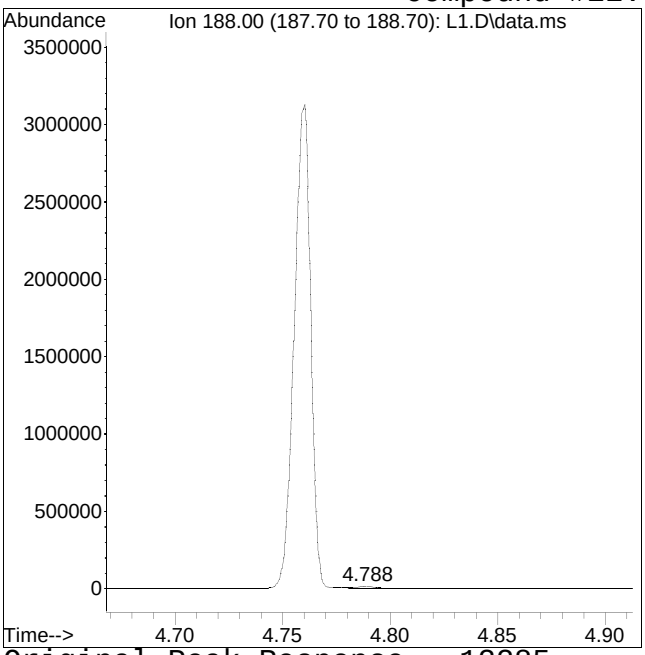
Manual Peak Response = 93 M3

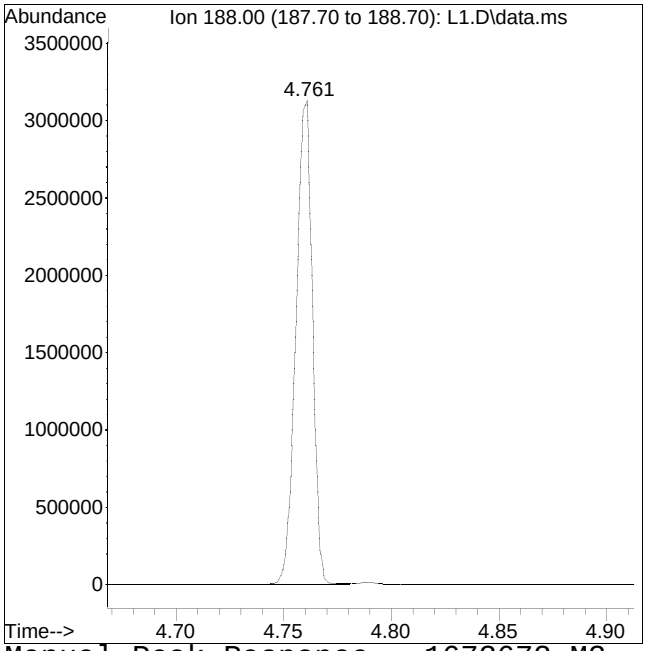
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L1.D Operator : SV118:dv
Date Inj'd : 10/25/2024 7:21 pm Instrument : SV118
Sample : IL1,32,, #10895 1 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #22: Phenanthrene-d10



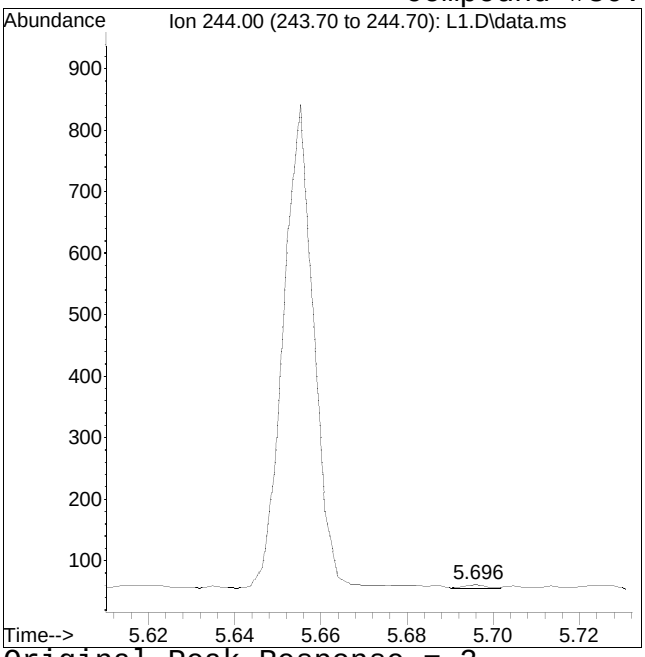


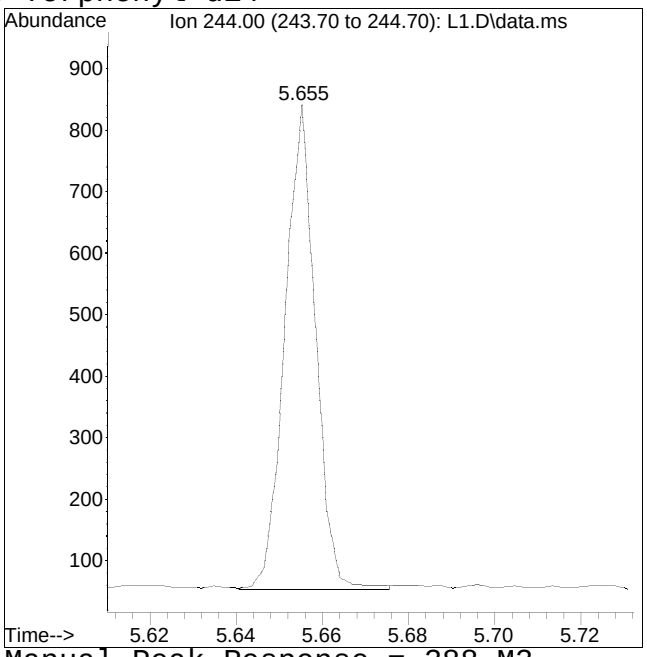
Original Peak Response = 12285 Manual Peak Response = 1673672 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : L1.D Operator : SV118:dv
Date Inj'd : 10/25/2024 7:21 pm Instrument : SV118
Sample : IL1,32,, #10895 1 ng/ml Quant Date : 12/4/2024 11:33 am

Compound #30: 4-Terphenyl-d14





Original Peak Response = 2 Manual Peak Response = 388 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:\8270SIM\SV118\2024\241025RVTical\
Data File : ICV.D
Acq On : 25 Oct 2024 07:38 pm
Operator : SV118:dv
Sample : CQICV,32,, #10884 1000 ng/ml
Misc : WG1990947,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 04 11:31:43 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:32:57 2024
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	82	0.00
2	s	2-Fluorophenol	1.131	1.080	4.5	80	0.00
3	s	Phenol-d6	1.390	1.331	4.2	79	0.00
4	T	Bis(2-chloroethyl)ether	*1000.000	968.718	3.1	78	0.00
5	T	n-nitrosodi-n-propylamine	0.879	0.812	7.6	76	0.00
6	t	Hexachloroethane	0.502	0.469	6.6	77	0.00
7	s	Nitrobenzene-d5	0.897	0.846	5.7	74	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	83	0.00
9	t	Naphthalene	1.053	0.970	7.9	79	0.00
10	t	Hexachlorobutadiene	0.187	0.179	4.3	81	0.00
11	t	2-Methylnaphthalene	0.674	0.649	3.7	81	0.00
12	t	1-Methylnaphthalene	0.627	0.601	4.1	81	0.00
13	s	2-Fluorobiphenyl	0.769	0.735	4.4	82	0.00
14	t	2-Chloronaphthalene	0.677	0.640	5.5	79	0.00
15	t	2,6-Dinitrotoluene	0.092	0.087	5.4	75	0.00
16	t	Acenaphthylene	1.002	0.984	1.8	80	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	85	0.00
18	t	Acenaphthene	1.308	1.200	8.3	81	0.00
19	t	2,4-Dinitrotoluene	*1000.000	839.436	16.1	77	0.00
20	t	Fluorene	1.393	1.322	5.1	81	0.00
21	s	2,4,6-Tribromophenol	0.184	0.191	-3.8	84	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	88	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	815.959	18.4	77	0.00
24	t	Hexachlorobenzene	0.263	0.245	6.8	84	0.00
25	t	Pentachlorophenol	0.098	0.099	-1.0	80	0.00
26	t	Phenanthrene	1.086	0.994	8.5	84	0.00
27	t	Anthracene	1.066	1.011	5.2	84	0.00
28	t	Fluoranthene	1.216	1.138	6.4	84	0.00
29	t	Pyrene	1.291	1.230	4.7	85	0.00
30	s	4-Terphenyl-d14	0.818	0.770	5.9	86	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	89	0.00
32	t	Benzo[a]anthracene	0.392	0.335	14.5	83	0.00
33	t	3,3'-Dichlorobenzidine	0.418	0.445	-6.5	84	0.00
34	t	Chrysene	1.207	1.138	5.7	85	0.00
35	T	Bis(2-ethylhexyl)phthalate	0.696	0.631	9.3	76	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : ICV.D
Acq On : 25 Oct 2024 07:38 pm
Operator : SV118:dv
Sample : CQICV,32,, #10884 1000 ng/ml
Misc : WG1990947,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 04 11:31:43 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:32:57 2024
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	87	0.00
37	t	Benzo[b]fluoranthene	1.031	0.993	3.7	81	0.00
38	t	Benzo[k]fluoranthene	1.093	1.076	1.6	81	0.00
39	t	Benzo[a]pyrene	0.911	0.915	-0.4	81	0.00
40	t	Indeno[1,2,3-cd]pyrene	0.849	0.851	-0.2	77	-0.01
41	t	Dibenzo[a,h]anthracene	0.865	0.881	-1.8	81	-0.01
42	t	Benzo[g,h,i]perylene	0.890	0.877	1.5	81	-0.01

* 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\2024\241025RVTical\
Data File : ICV.D
Acq On : 25 Oct 2024 07:38 pm
Operator : SV118:dv
Sample : CQICV,32,, #10884 1000 ng/ml
Misc : WG1990947,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 04 11:31:43 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:32:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.286	152	354039	4000.000	ng/ml	0.00
Standard Area 1 = 429824			Recovery = 82.37%			
8) Naphthalene-d8	2.950	136	1309976	4000.000	ng/ml	0.00
Standard Area 1 = 1574353			Recovery = 83.21%			
17) Acenaphthene-d10	3.928	164	738513	4000.000	ng/ml	0.00
Standard Area 1 = 863987			Recovery = 85.48%			
22) Phenanthrene-d10	4.759	188	1550049M3	4000.000	ng/ml	0.00
Standard Area 1 = 1755380			Recovery = 88.30%			
31) Chrysene-d12	6.272	240	1499833	4000.000	ng/ml	0.00
Standard Area 1 = 1692718			Recovery = 88.61%			
36) Perylene-d12	7.476	264	1558807	4000.000	ng/ml	0.00
Standard Area 1 = 1795203			Recovery = 86.83%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.689	112	95573	954.797	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 47.74%			
3) Phenol-d6	2.091	99	117797	957.700	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 47.88%			
7) Nitrobenzene-d5	2.566	82	74838	942.419	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 94.24%			
13) 2-Fluorobiphenyl	3.550	172	240775	955.914	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 95.59%			
21) 2,4,6-Tribromophenol	4.366	330	35327	1038.113	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 51.91%			
30) 4-Terphenyl-d14	5.649	244	298400	940.877	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 94.09%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.149	93	101617	968.718	ng/ml	97
5) n-nitrosodi-n-propylamine	2.484	70	71872	923.913	ng/ml	97
6) Hexachloroethane	2.546	117	41469	933.585	ng/ml	87
9) Naphthalene	2.962	128	317734	921.403	ng/ml	100
10) Hexachlorobutadiene	3.037	225	58621	957.789	ng/ml	100
11) 2-Methylnaphthalene	3.342	142	212474	961.967	ng/ml	98
12) 1-Methylnaphthalene	3.400	142	196895	958.192	ng/ml	99
14) 2-Chloronaphthalene	3.615	162	209488	944.989	ng/ml#	88
15) 2,6-Dinitrotoluene	3.805	165	28596	953.057	ng/ml#	83
16) Acenaphthylene	3.847	152	322323	982.177	ng/ml	99
18) Acenaphthene	3.945	153	221633	918.017	ng/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : ICV.D
Acq On : 25 Oct 2024 07:38 pm
Operator : SV118:dv
Sample : CQICV,32,, #10884 1000 ng/ml
Misc : WG1990947,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 04 11:31:43 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:32:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\241025RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.031	165	38286	839.436	ng/ml#	83
20) Fluorene	4.231	166	244027	948.745	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.259	198	15870	815.959	ng/ml#	79
24) Hexachlorobenzene	4.546	284	94894	929.858	ng/ml	99
25) Pentachlorophenol	4.652	266	38433M2	1012.480	ng/ml	
26) Phenanthrene	4.771	178	385001M3	914.950	ng/ml	
27) Anthracene	4.798	178	391693	948.522	ng/ml	99
28) Fluoranthene	5.437	202	441182	936.637	ng/ml#	91
29) Pyrene	5.562	202	476733	952.779	ng/ml	99
32) Benzo[a]anthracene	6.264	226	125600	855.108	ng/ml#	96
33) 3,3'-Dichlorobenzidine	6.247	252	166953	1066.316	ng/ml	98
34) Chrysene	6.288	228	426866	943.474	ng/ml#	99
35) Bis(2-ethylhexyl)phtha...	6.281	149	236774	907.509	ng/ml	95
37) Benzo[b]fluoranthene	7.098	252	386845	962.577	ng/ml	99
38) Benzo[k]fluoranthene	7.125	252	419398	984.261	ng/ml	100
39) Benzo[a]pyrene	7.410	252	356399	1003.789	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.692	276	331722	1002.155	ng/ml#	88
41) Dibenzo[a,h]anthracene	8.728	278	343322M6	1018.903	ng/ml	
42) Benzo[g,h,i]perylene	9.039	276	341643	984.592	ng/ml#	86

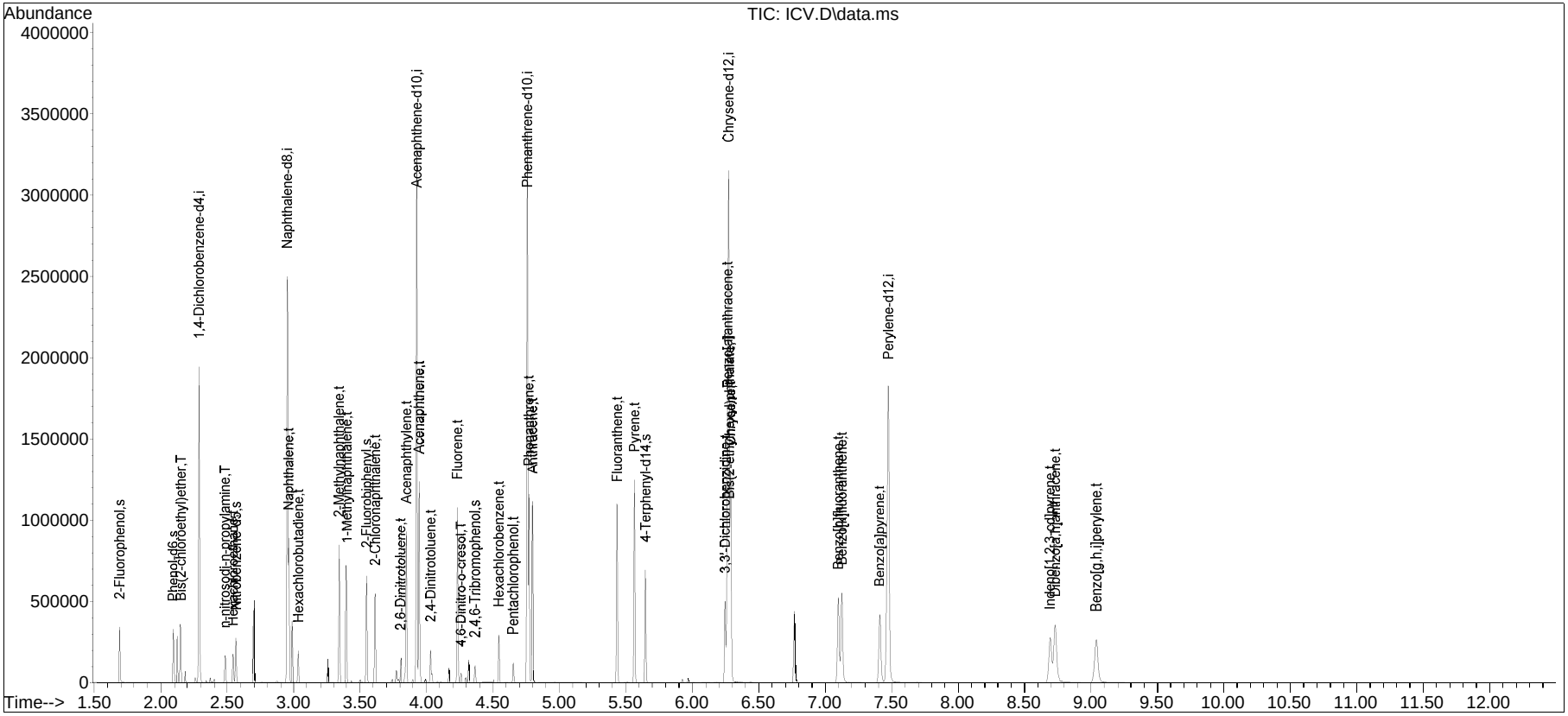
(#) = qualifier out of range (m) = manual integration (+) = signals summed

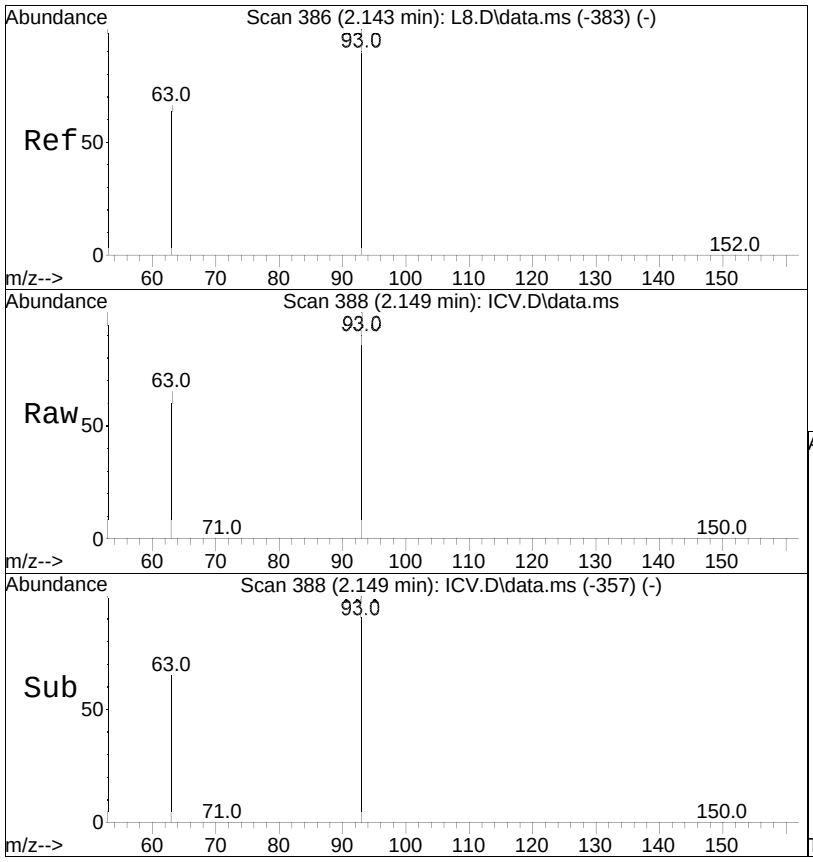
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\2024\241025RVTical\
Data File : ICV.D
Acq On : 25 Oct 2024 07:38 pm
Operator : SV118:dv
Sample : CQICV,32,, #10884 1000 ng/ml
Misc : WG1990947,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 04 11:31:43 2024
Quant Method : I:\8270SIM\SV118\2024\241025RVTical\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 04 11:32:57 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedical\L8.D•

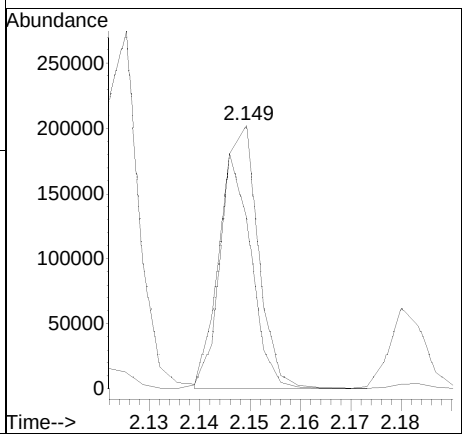


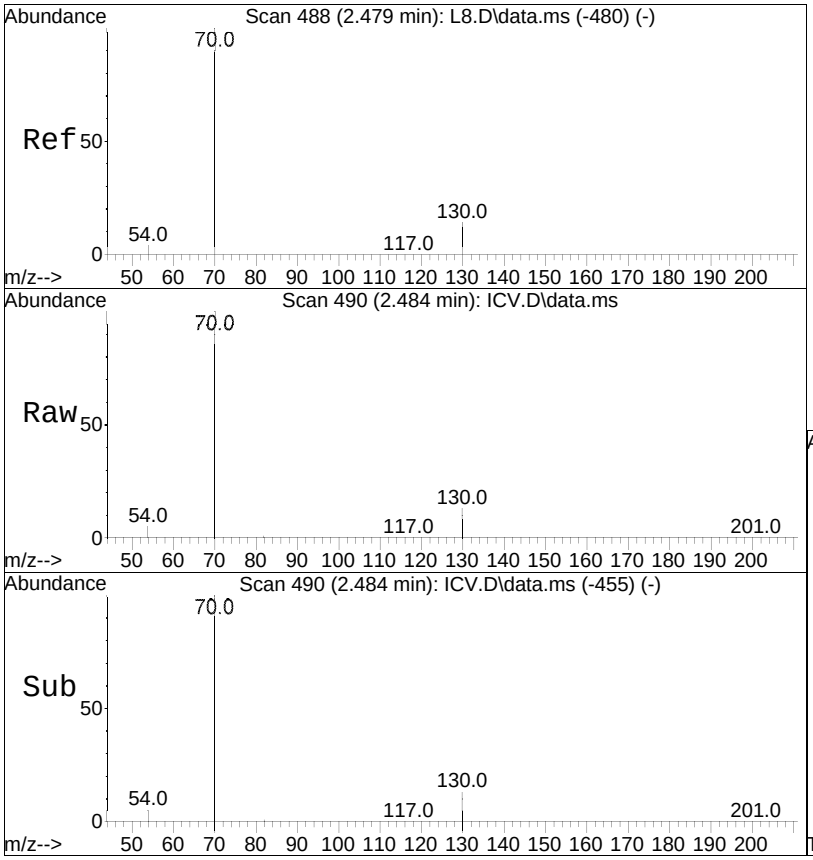


#4
Bis(2-chloroethyl)ether
Concen: 968.72 ng/ml
RT: 2.149 min Scan# 388
Delta R.T. 0.006 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion: 93 Resp: 101617

Ion	Ratio	Lower	Upper
93	100		
63	82.0	68.1	102.1

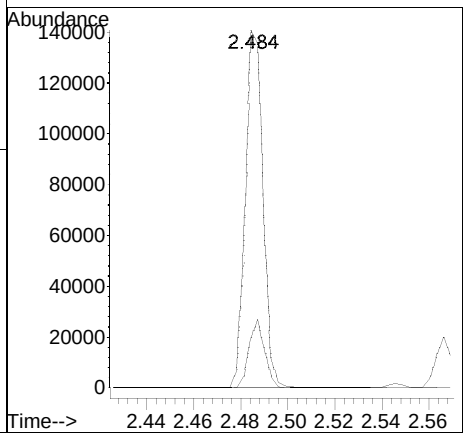


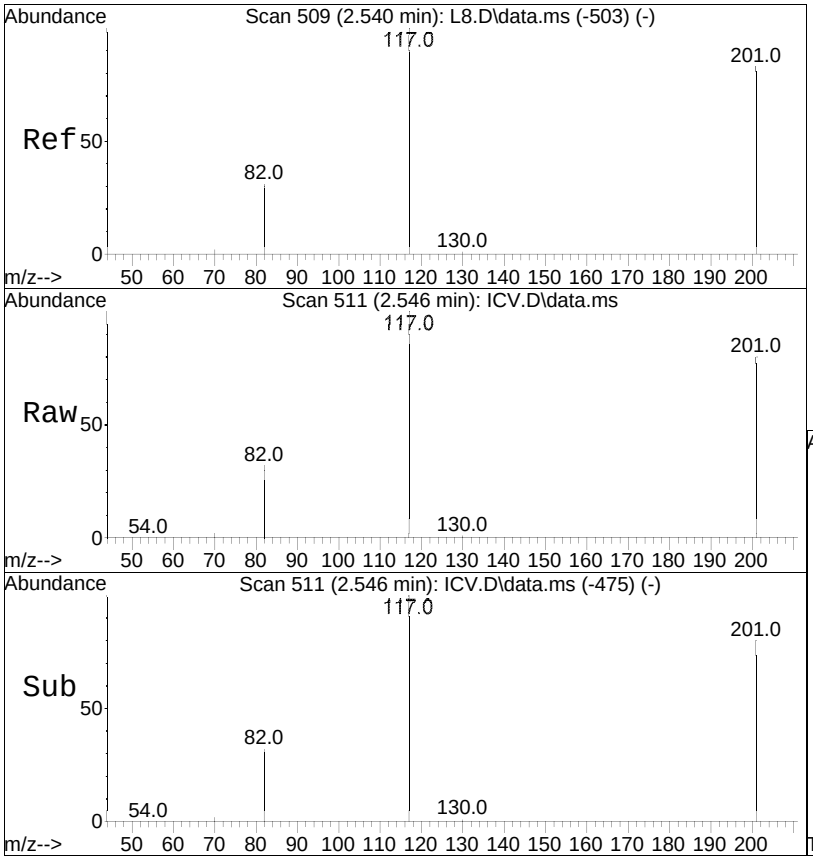


#5
n-nitrosodi-n-propylamine
Concen: 923.91 ng/ml
RT: 2.484 min Scan# 490
Delta R.T. 0.005 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion: 70 Resp: 71872

Ion	Ratio	Lower	Upper
70	100		
130	17.3	13.0	19.4

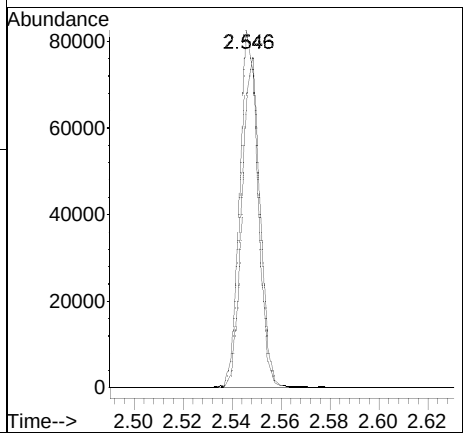


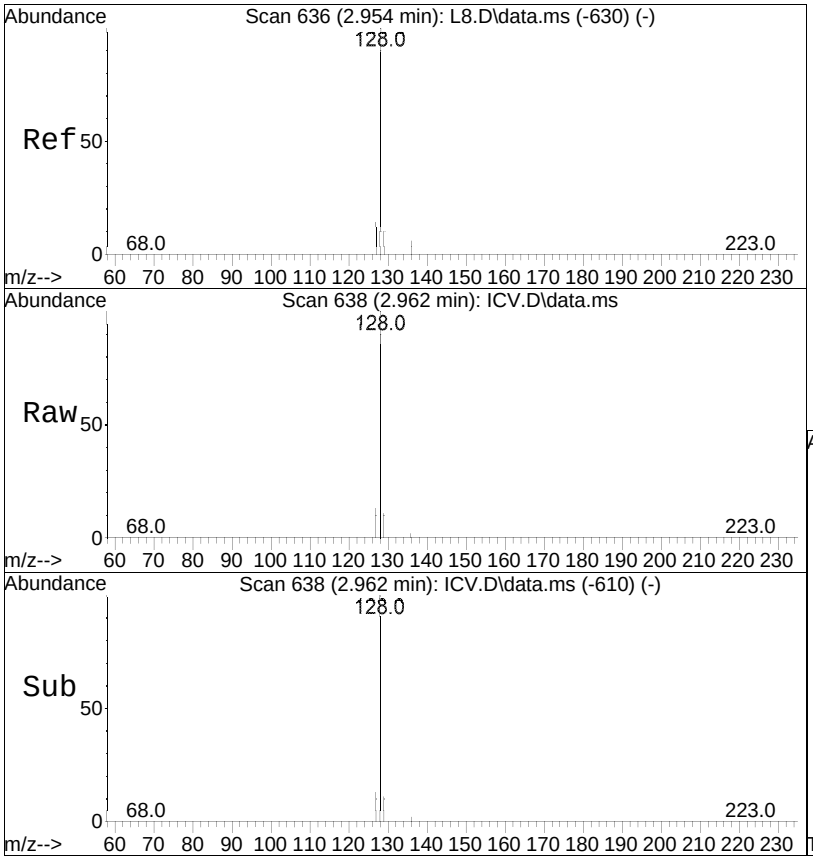


#6
Hexachloroethane
Concen: 933.59 ng/ml
RT: 2.546 min Scan# 511
Delta R.T. 0.006 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:117 Resp: 41469

Ion	Ratio	Lower	Upper
117	100		
201	92.4	84.9	127.3

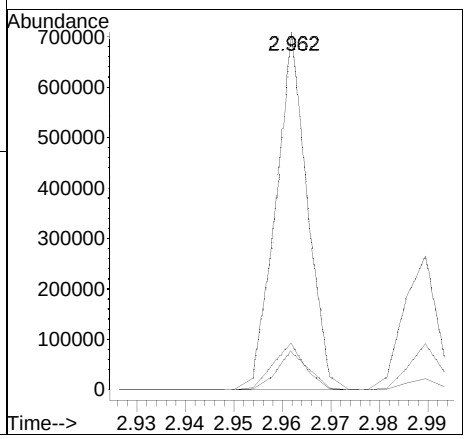


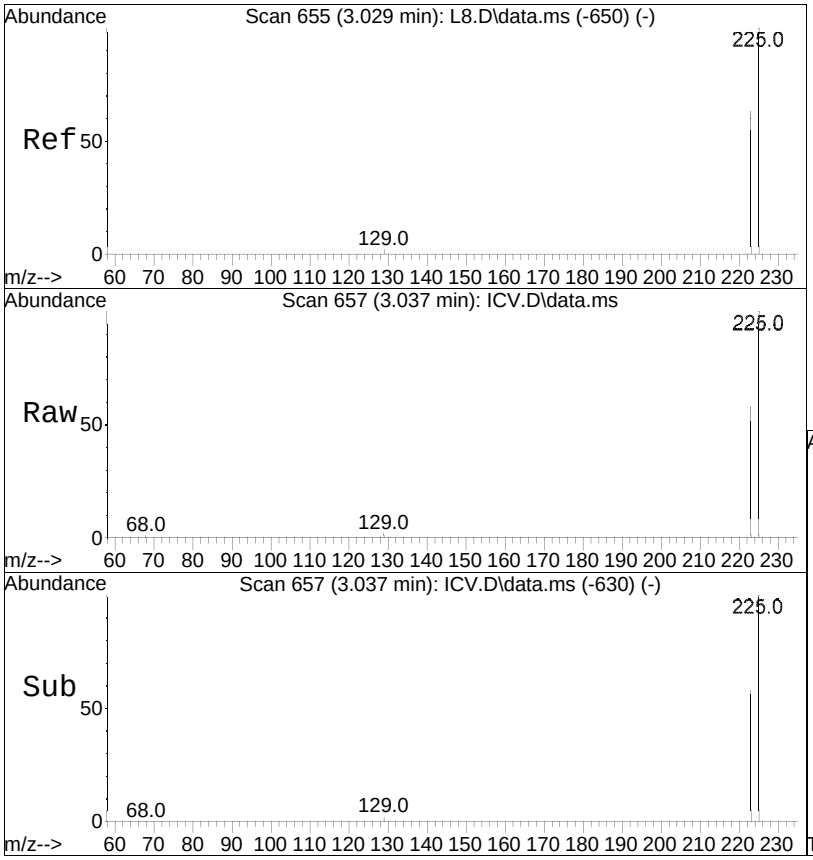


#9
Naphthalene
Concen: 921.40 ng/ml
RT: 2.962 min Scan# 638
Delta R.T. 0.008 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:128 Resp: 317734

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.3	10.7	16.1

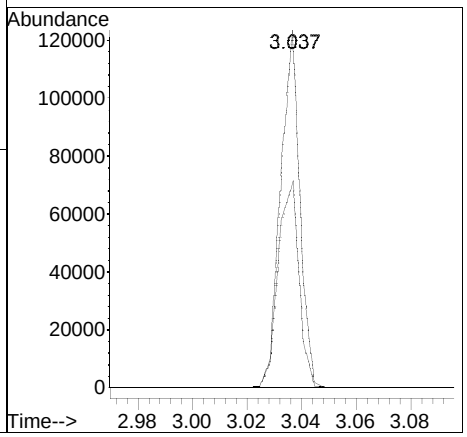


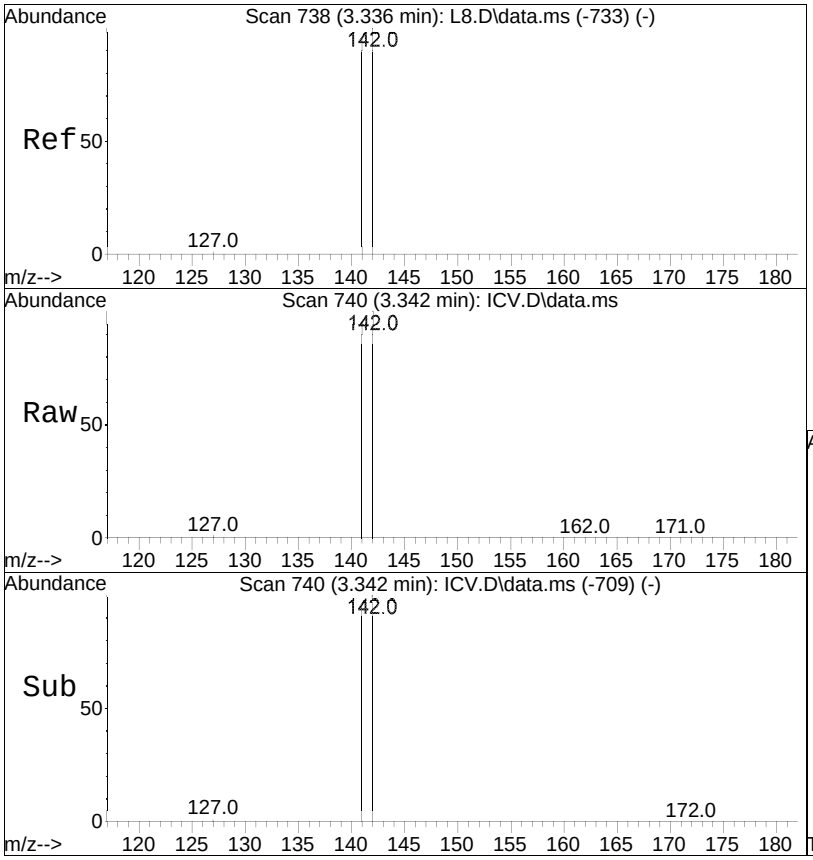


#10
Hexachlorobutadiene
Concen: 957.79 ng/ml
RT: 3.037 min Scan# 657
Delta R.T. 0.008 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:225 Resp: 58621

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.4	75.6

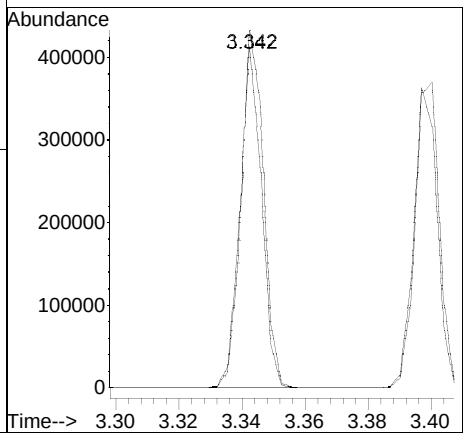


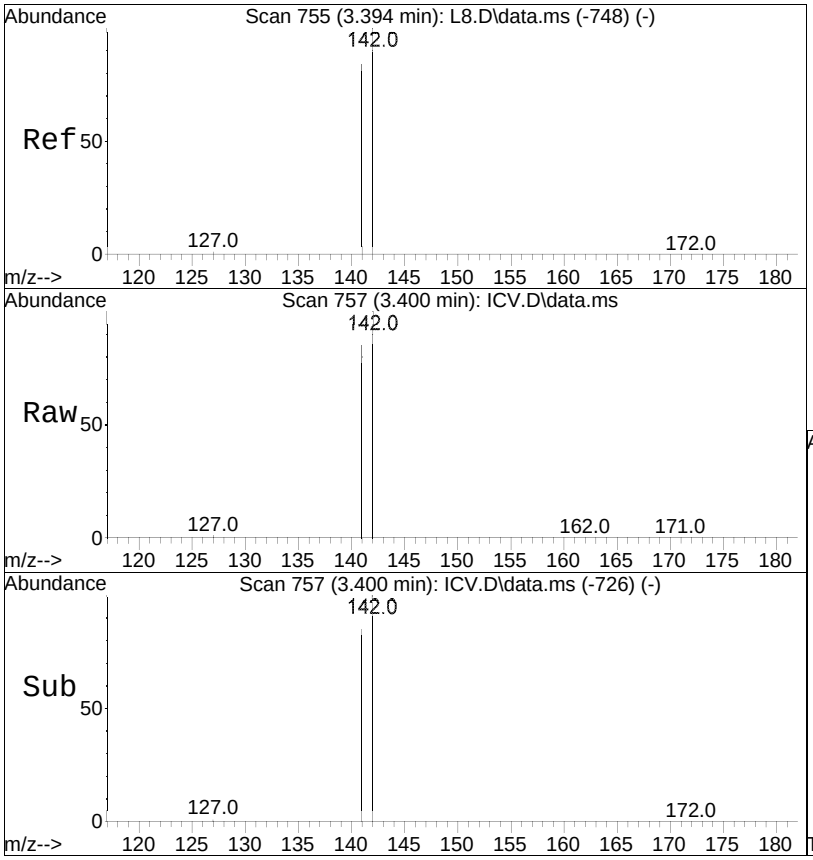


#11
2-Methylnaphthalene
Concen: 961.97 ng/ml
RT: 3.342 min Scan# 740
Delta R.T. 0.006 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:142 Resp: 212474

Ion	Ratio	Lower	Upper
142	100		
141	91.6	71.8	107.8

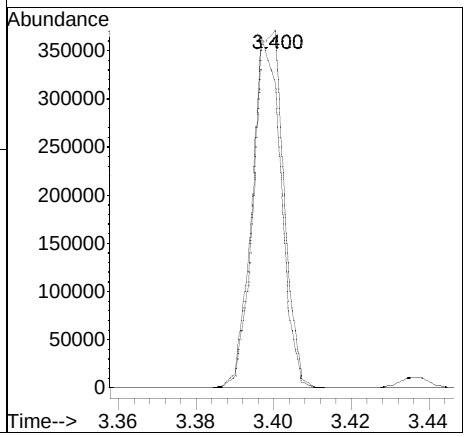


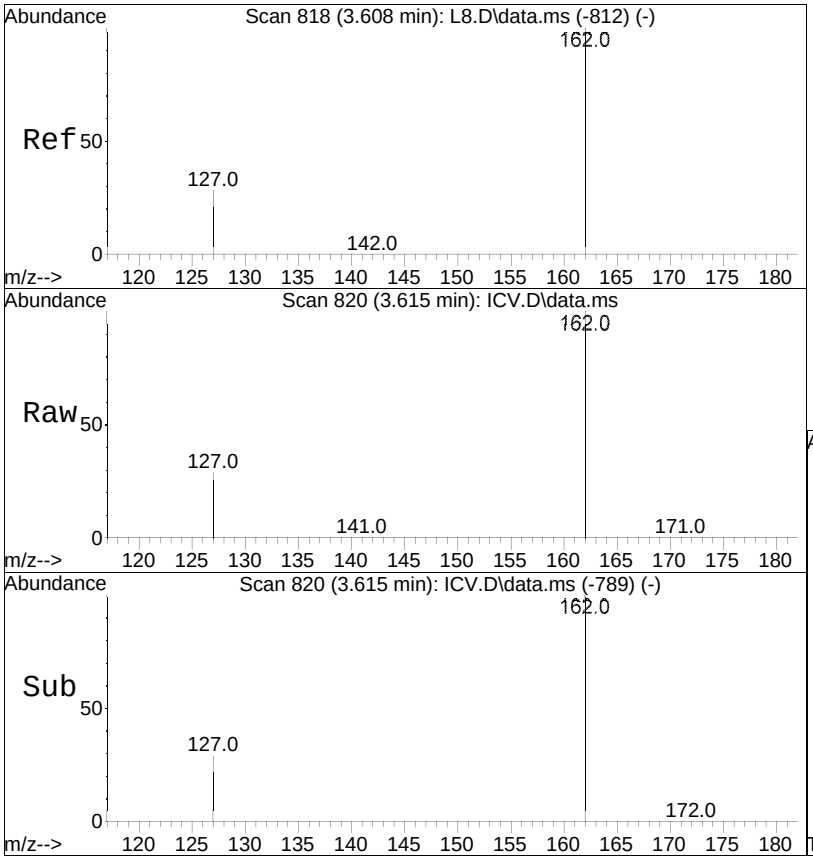


#12
1-Methylnaphthalene
Concen: 958.19 ng/ml
RT: 3.400 min Scan# 757
Delta R.T. 0.006 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:142 Resp: 196895

Ion	Ratio	Lower	Upper
142	100		
141	94.3	74.6	111.8

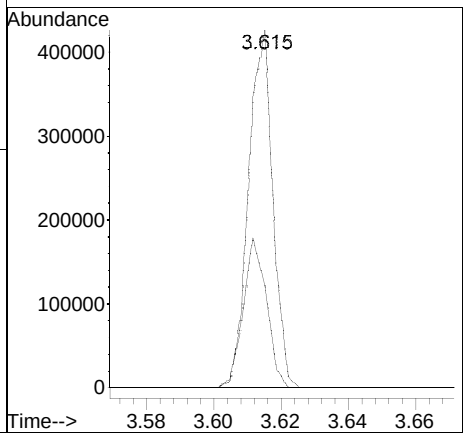


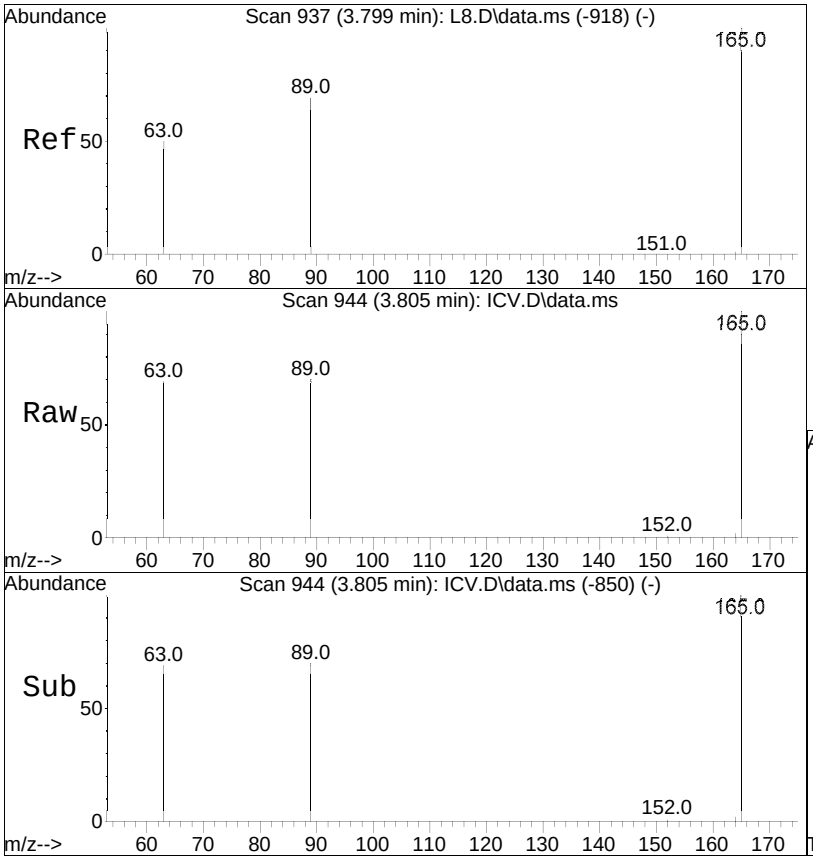


#14
2-Chloronaphthalene
Concen: 944.99 ng/ml
RT: 3.615 min Scan# 820
Delta R.T. 0.007 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:162 Resp: 209488

Ion	Ratio	Lower	Upper
162	100		
127	40.4	26.9	40.3#

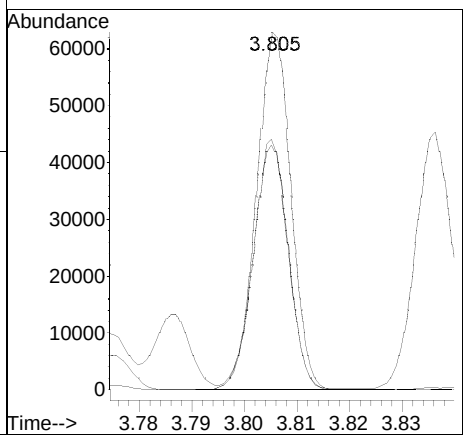


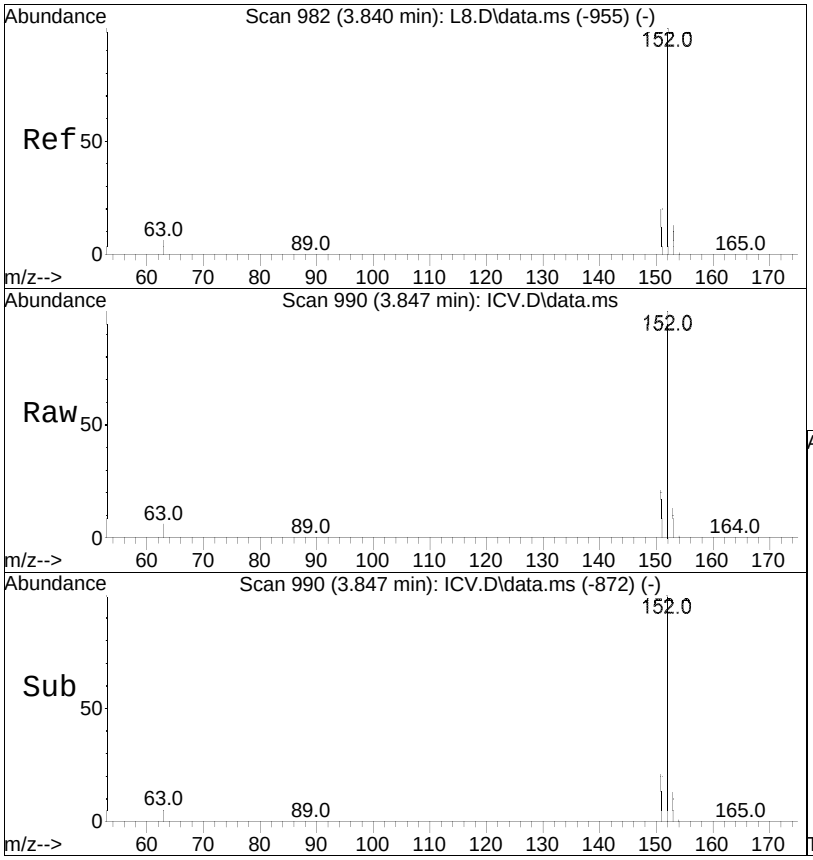


#15
2,6-Dinitrotoluene
Concen: 953.06 ng/ml
RT: 3.805 min Scan# 944
Delta R.T. 0.006 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:165 Resp: 28596

Ion	Ratio	Lower	Upper
165	100		
89	70.1	44.0	66.0#
63	69.0	47.5	71.3

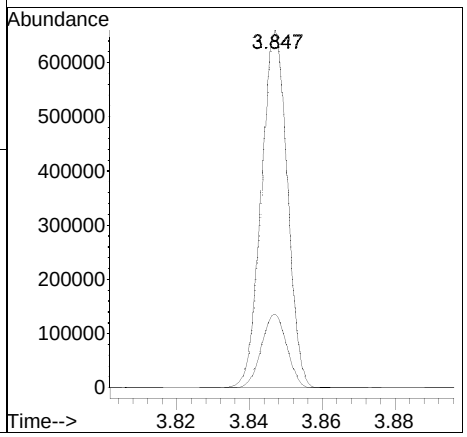


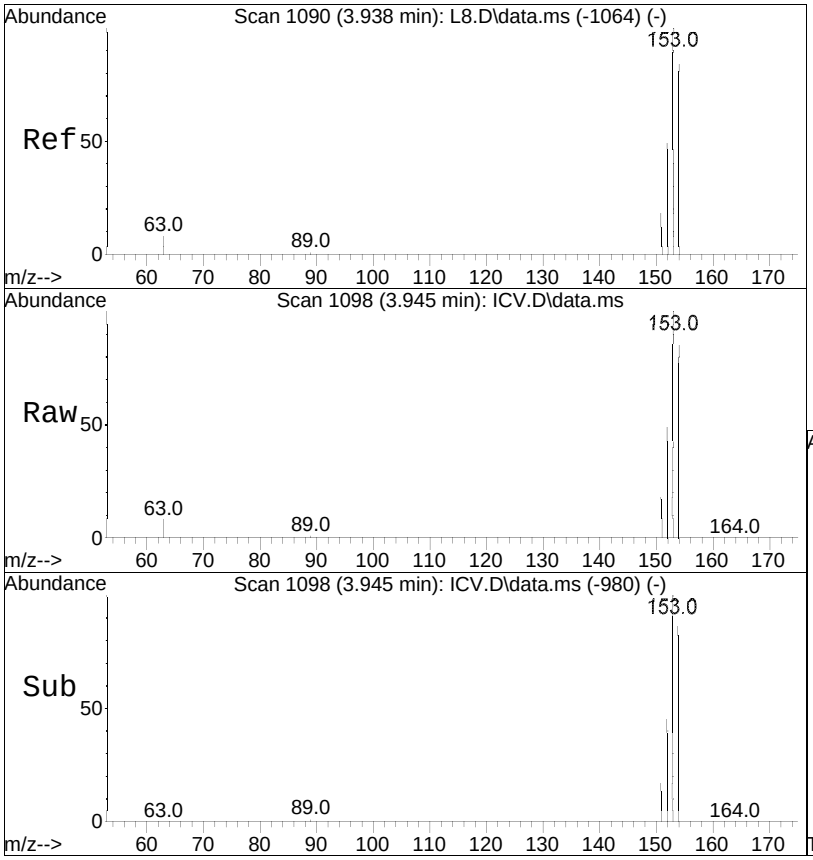


#16
Acenaphthylene
Concen: 982.18 ng/ml
RT: 3.847 min Scan# 990
Delta R.T. 0.007 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:152 Resp: 322323

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.2	24.2

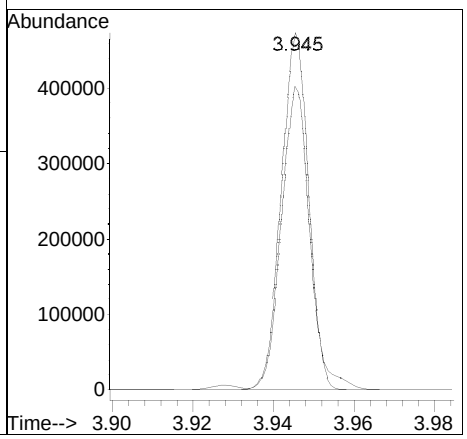


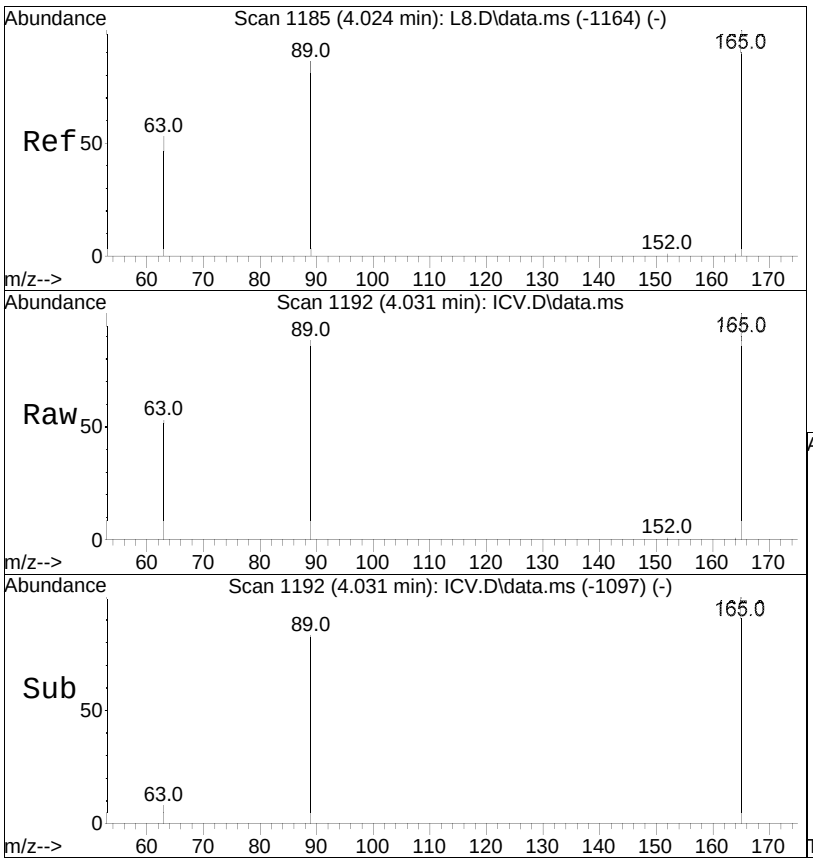


#18
Acenaphthene
Concen: 918.02 ng/ml
RT: 3.945 min Scan# 1098
Delta R.T. 0.007 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:153 Resp: 221633

Ion	Ratio	Lower	Upper
153	100		
154	88.2	68.2	102.4

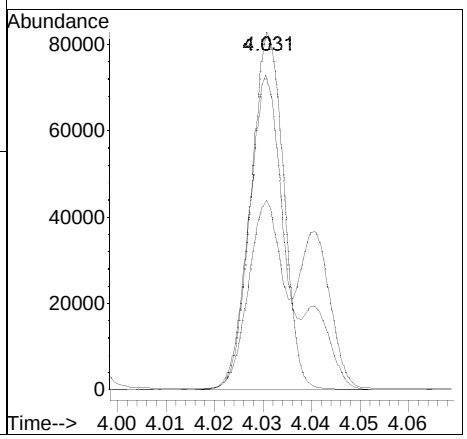


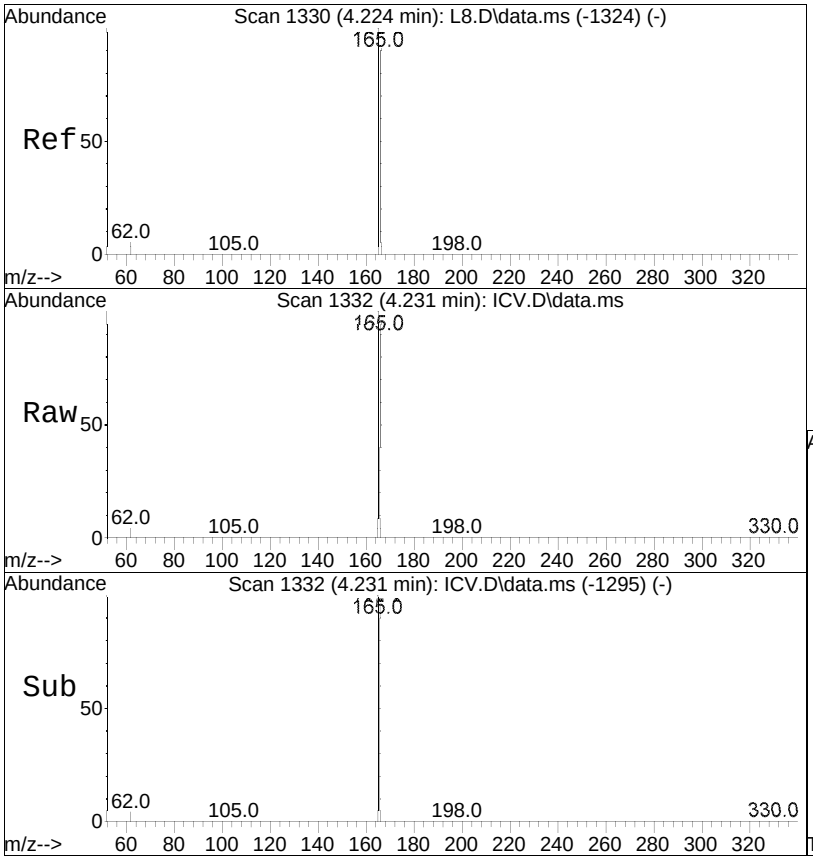


#19
2,4-Dinitrotoluene
Concen: 839.44 ng/ml
RT: 4.031 min Scan# 1192
Delta R.T. 0.007 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:165 Resp: 38286

Ion	Ratio	Lower	Upper
165	100		
89	92.1	64.6	96.8
63	52.9	56.5	84.7#

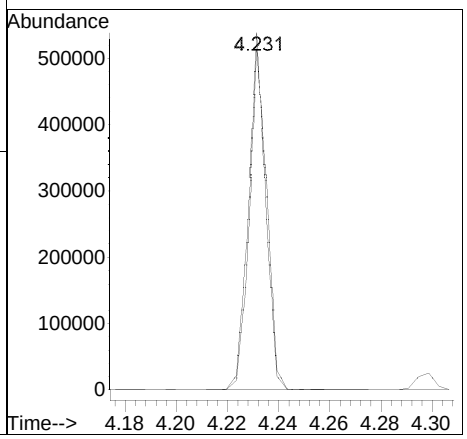


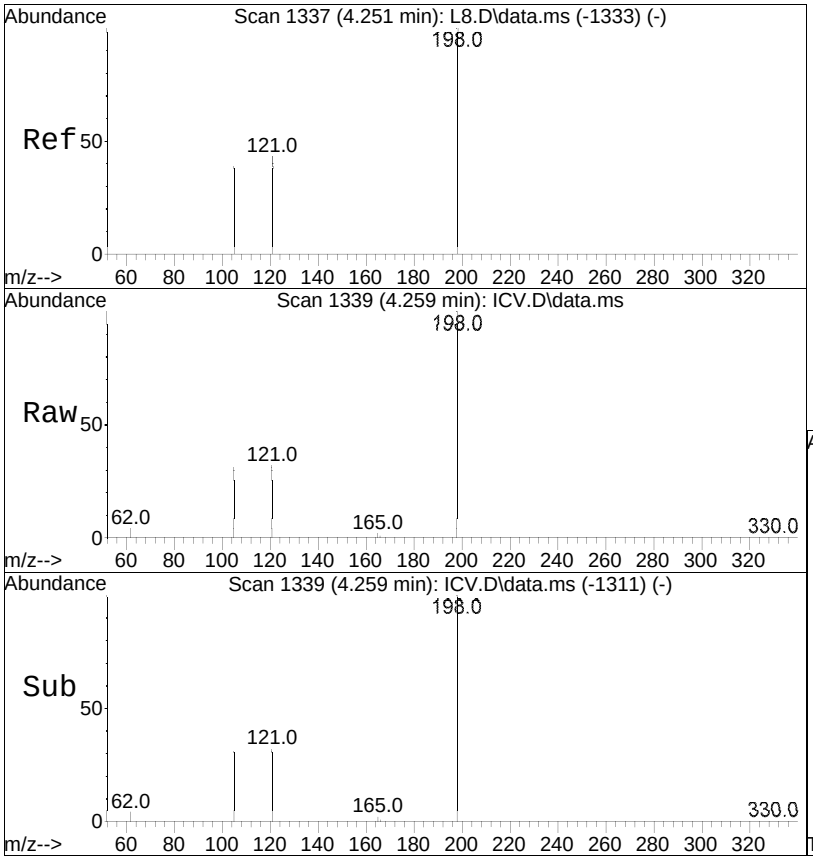


#20
Fluorene
Concen: 948.74 ng/ml
RT: 4.231 min Scan# 1332
Delta R.T. 0.007 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:166 Resp: 244027

Ion	Ratio	Lower	Upper
166	100		
165	101.9	80.5	120.7

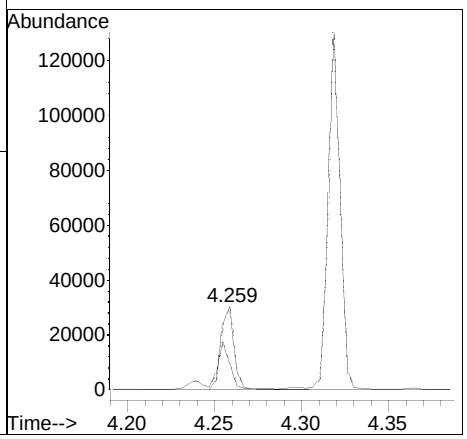


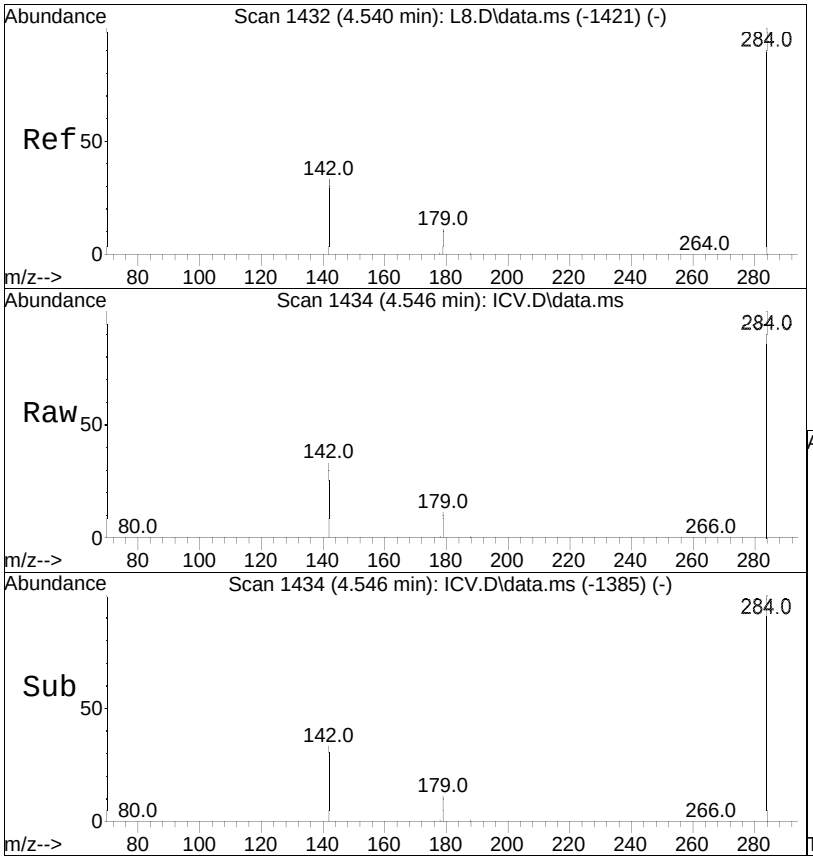


#23
4,6-Dinitro-o-cresol
Concen: 815.96 ng/ml
RT: 4.259 min Scan# 1339
Delta R.T. 0.008 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:198 Resp: 15870

Ion	Ratio	Lower	Upper
198	100		
105	52.4	31.8	47.6#

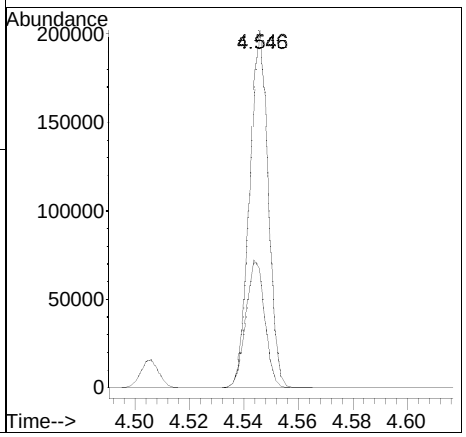


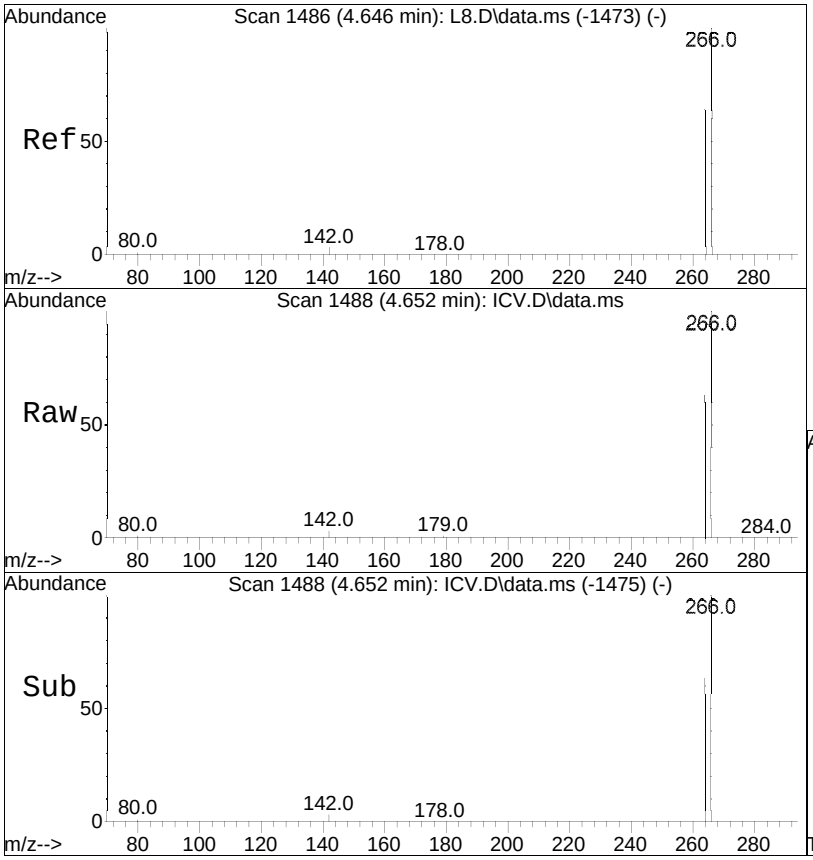


#24
Hexachlorobenzene
Concen: 929.86 ng/ml
RT: 4.546 min Scan# 1434
Delta R.T. 0.006 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:284 Resp: 94894

Ion	Ratio	Lower	Upper
284	100		
142	36.2	28.4	42.6

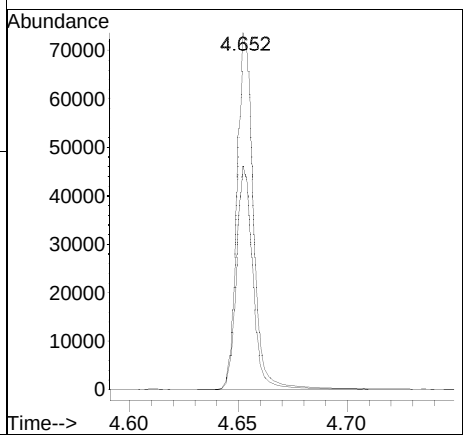


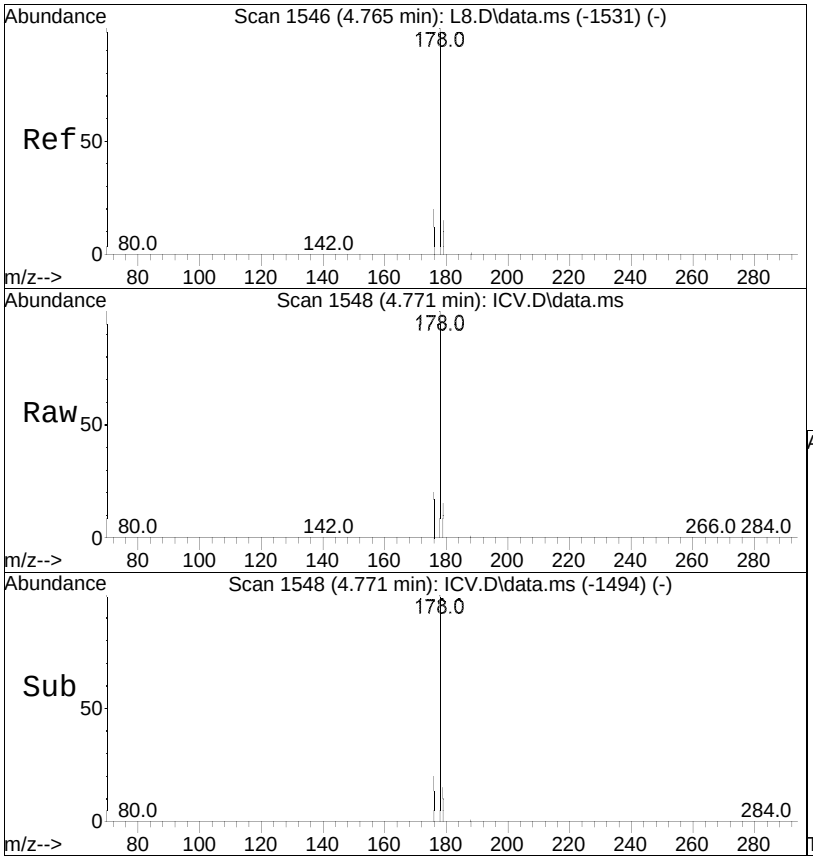


#25
Pentachlorophenol
Concen: 1012.48 ng/ml M2
RT: 4.652 min Scan# 1488
Delta R.T. 0.006 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:266 Resp: 38433

Ion	Ratio	Lower	Upper
266	100		
264	0.0	50.6	76.0#

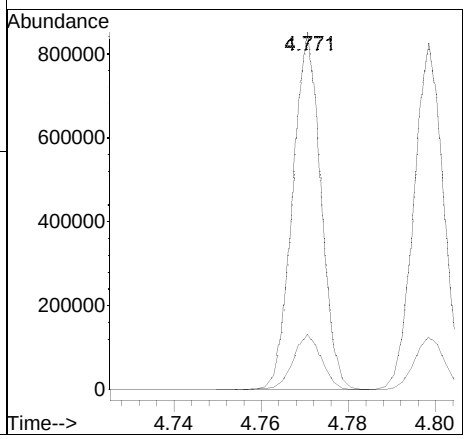


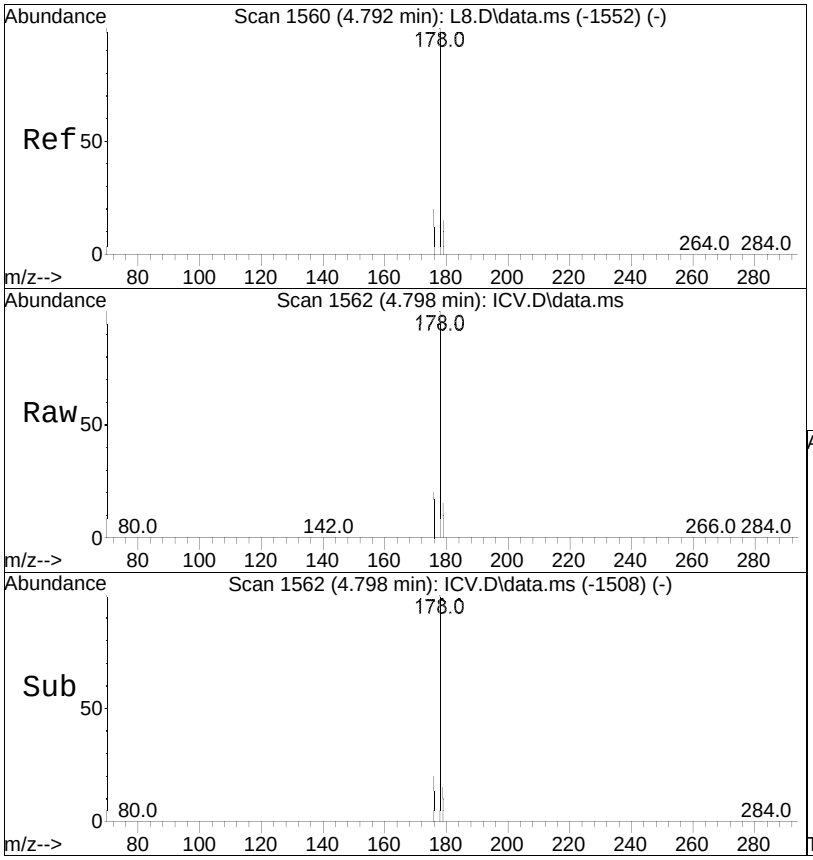


#26
Phenanthrene
Concen: 914.95 ng/ml M3
RT: 4.771 min Scan# 1548
Delta R.T. 0.006 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:178 Resp: 385001

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.5	18.7

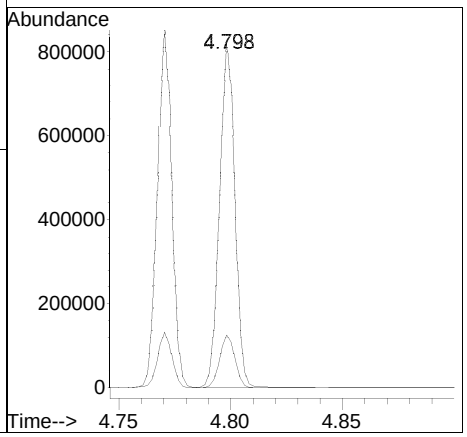


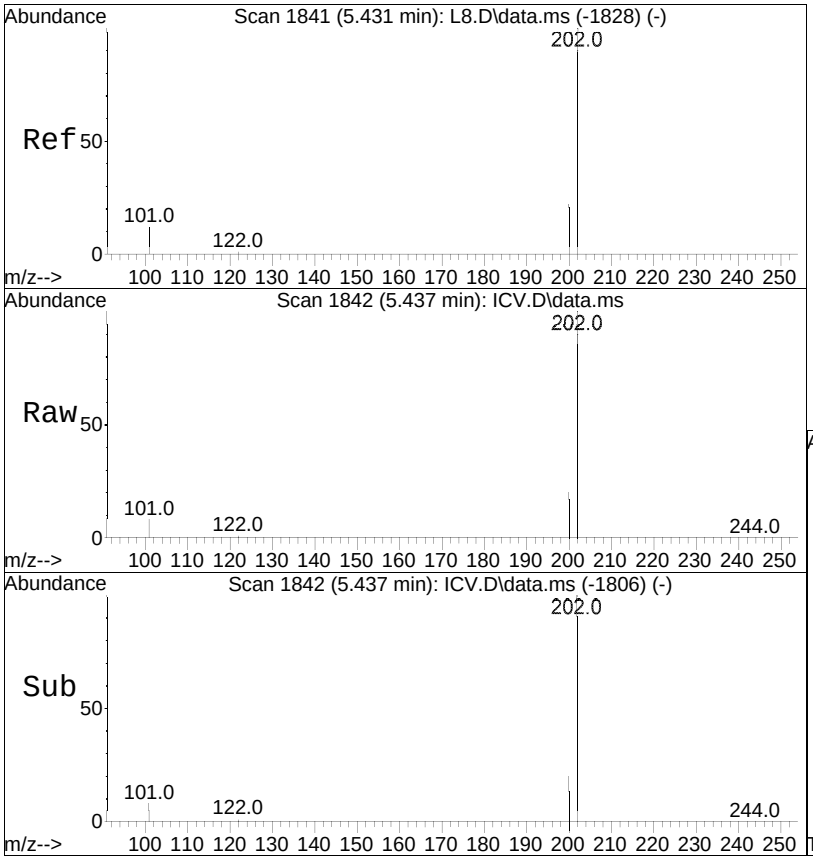


#27
Anthracene
Concen: 948.52 ng/ml
RT: 4.798 min Scan# 1562
Delta R.T. 0.006 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:178 Resp: 391693

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.5	18.7

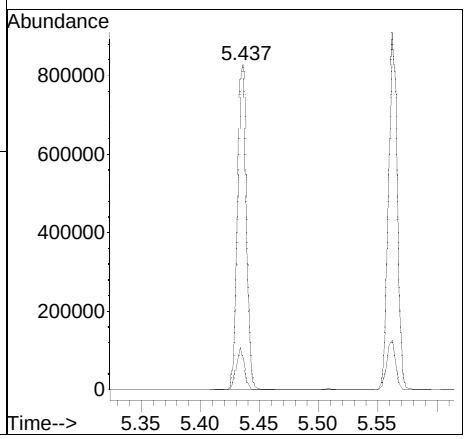


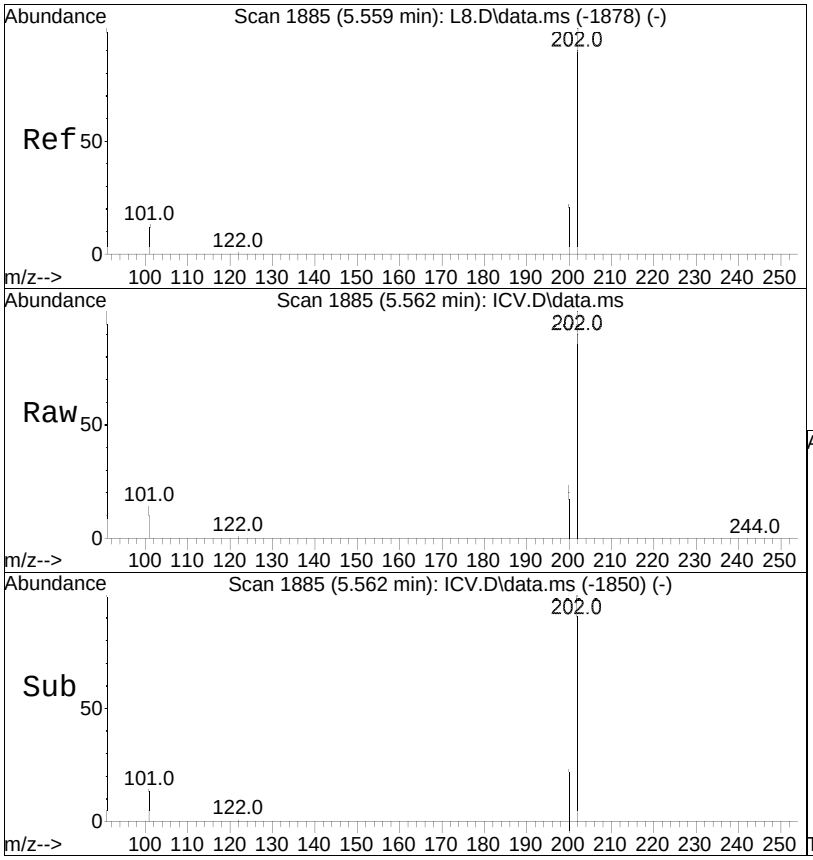


#28
Fluoranthene
Concen: 936.64 ng/ml
RT: 5.437 min Scan# 1842
Delta R.T. 0.006 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:202 Resp: 441182

Ion	Ratio	Lower	Upper
202	100		
101	11.7	6.9	10.3#

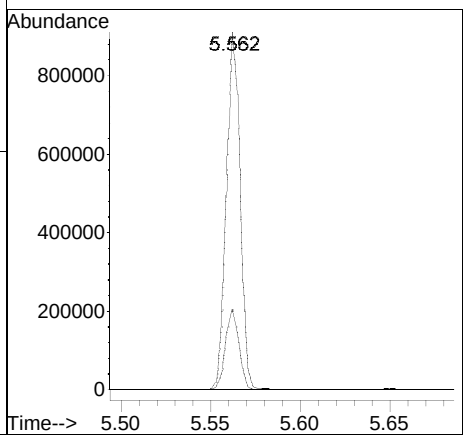


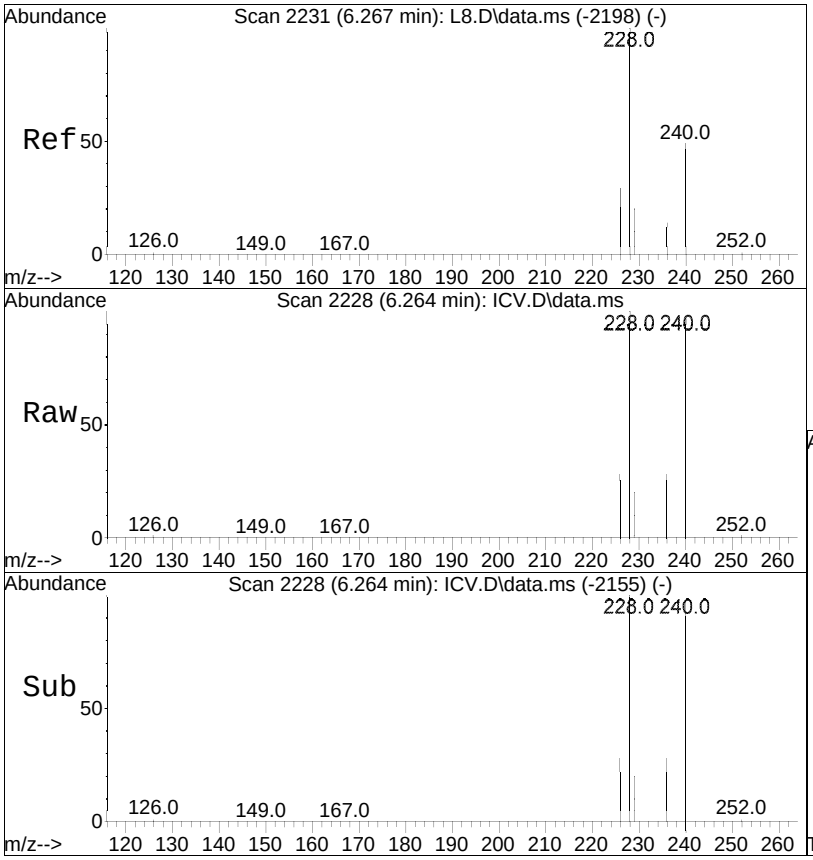


#29
Pyrene
Concen: 952.78 ng/ml
RT: 5.562 min Scan# 1885
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:202 Resp: 476733

Ion	Ratio	Lower	Upper
202	100		
200	22.1	17.4	26.0

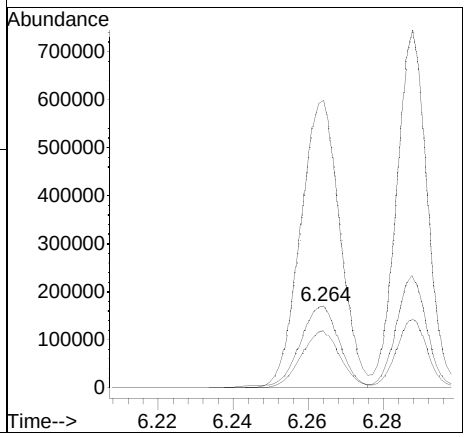


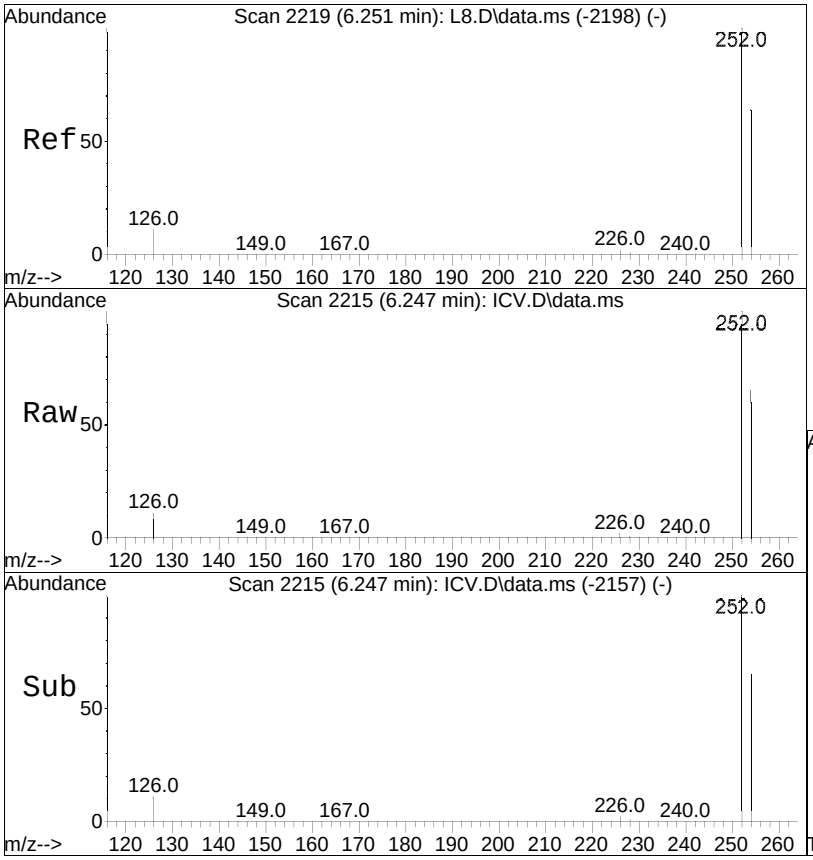


#32
Benzo[a]anthracene
Concen: 855.11 ng/ml
RT: 6.264 min Scan# 2228
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:226 Resp: 125600

Ion	Ratio	Lower	Upper
226	100		
227	0.0	0.0	0.0
228	345.9	284.1	426.1
229	68.3	56.6	85.0

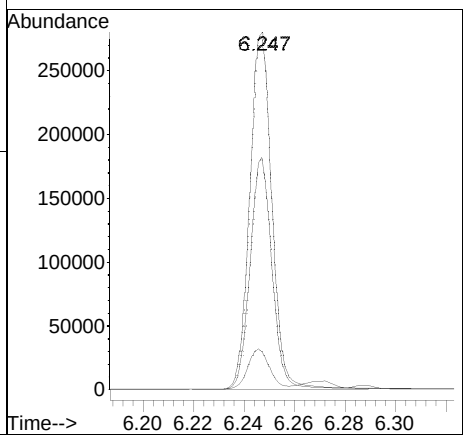


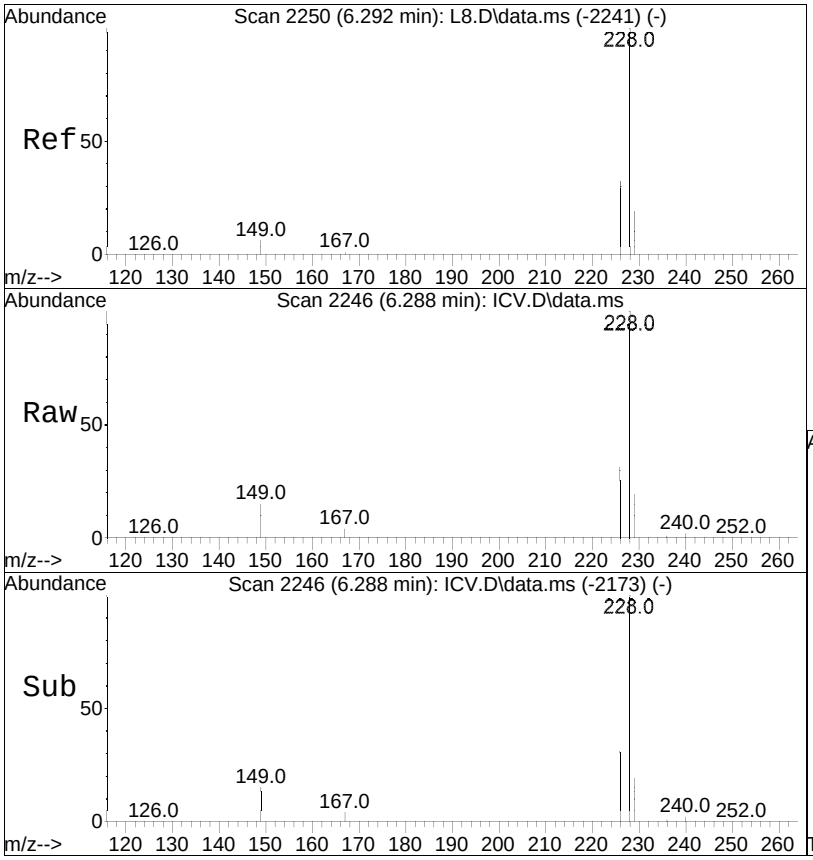


#33
3,3'-Dichlorobenzidine
Concen: 1066.32 ng/ml
RT: 6.247 min Scan# 2215
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:252 Resp: 166953

Ion	Ratio	Lower	Upper
252	100		
126	11.3	11.3	16.9
254	64.6	51.4	77.0

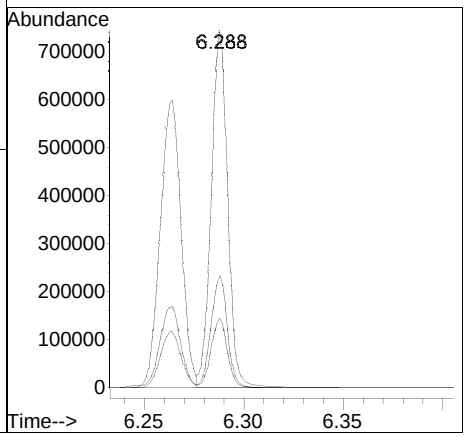


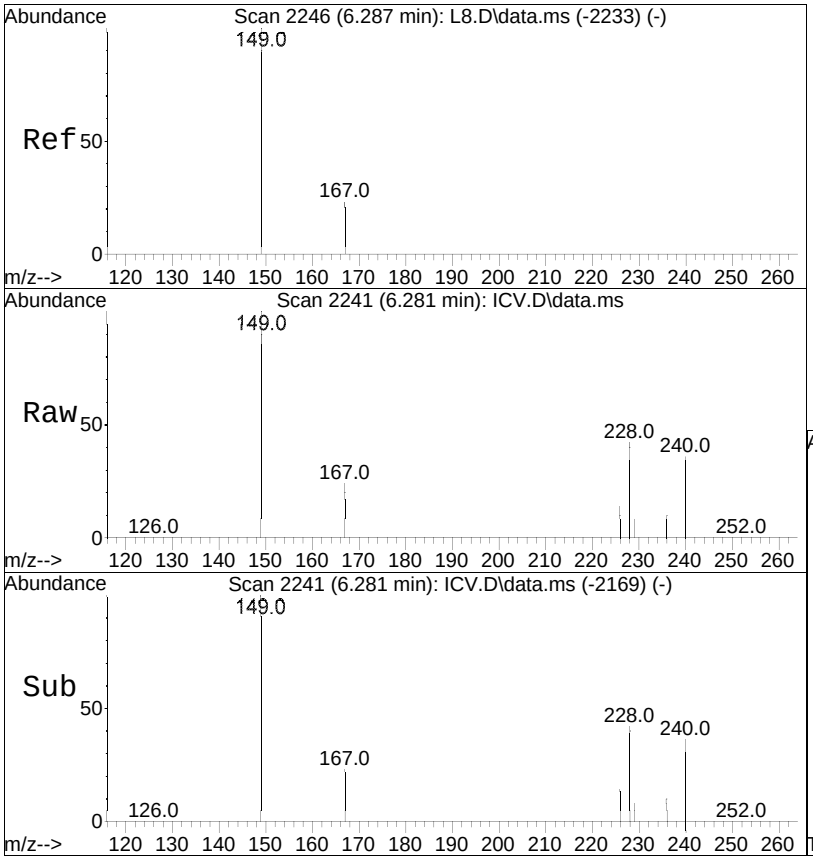


#34
Chrysene
Concen: 943.47 ng/ml
RT: 6.288 min Scan# 2246
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:228 Resp: 426866

Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.6	36.8
227	0.0	0.0	0.0
229	19.3	15.4	23.2

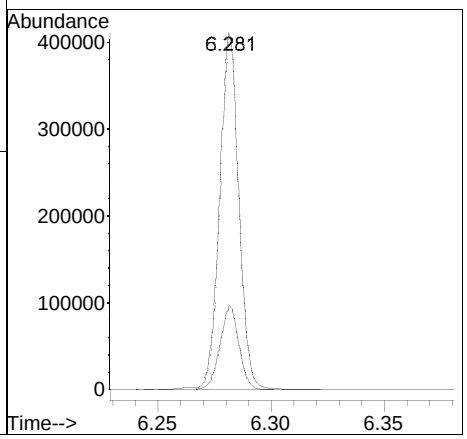


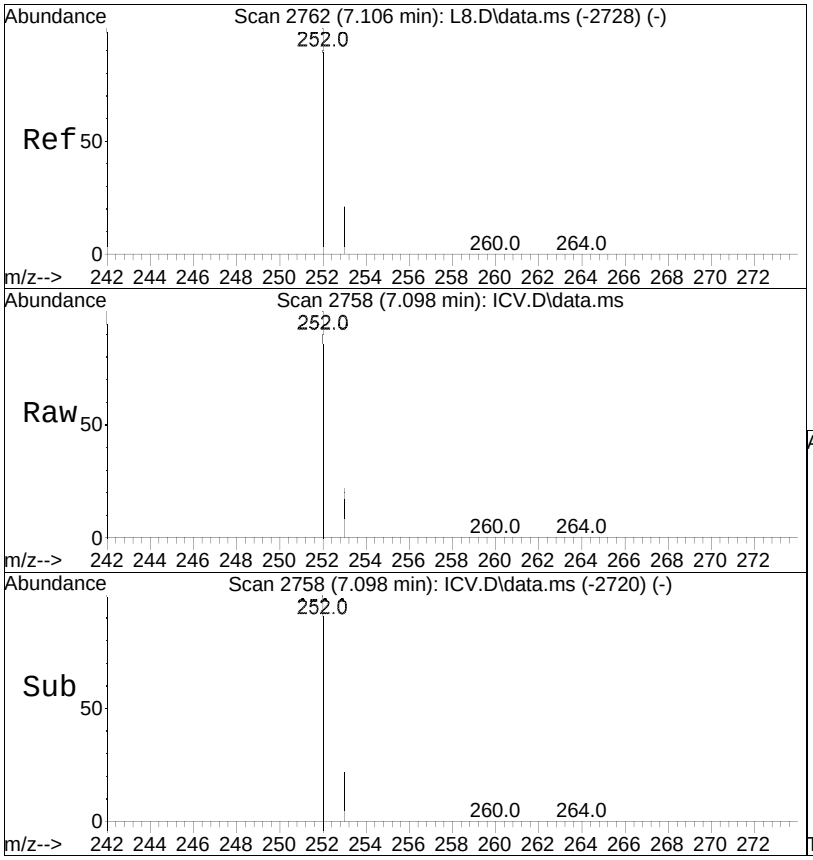


#35
Bis(2-ethylhexyl)phthalate
Concen: 907.51 ng/ml
RT: 6.281 min Scan# 2241
Delta R.T. -0.006 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:149 Resp: 236774

Ion	Ratio	Lower	Upper
149	100		
167	23.4	20.6	31.0

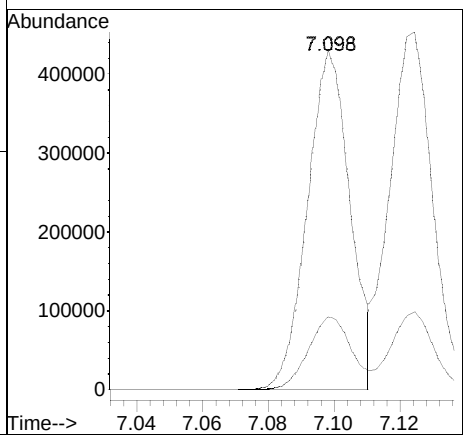


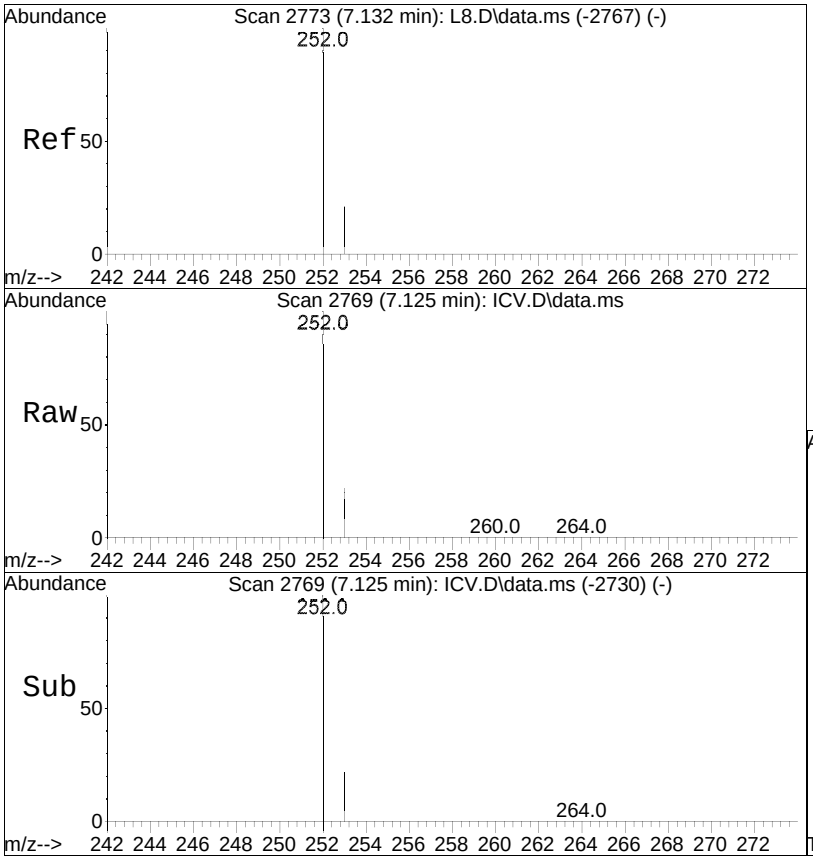


#37
Benzo[b]fluoranthene
Concen: 962.58 ng/ml
RT: 7.098 min Scan# 2758
Delta R.T. -0.008 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:252 Resp: 386845

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.6	26.4

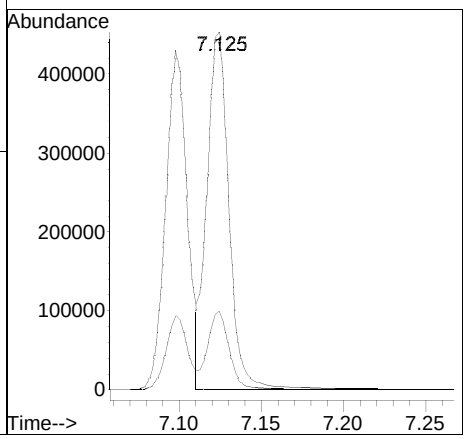


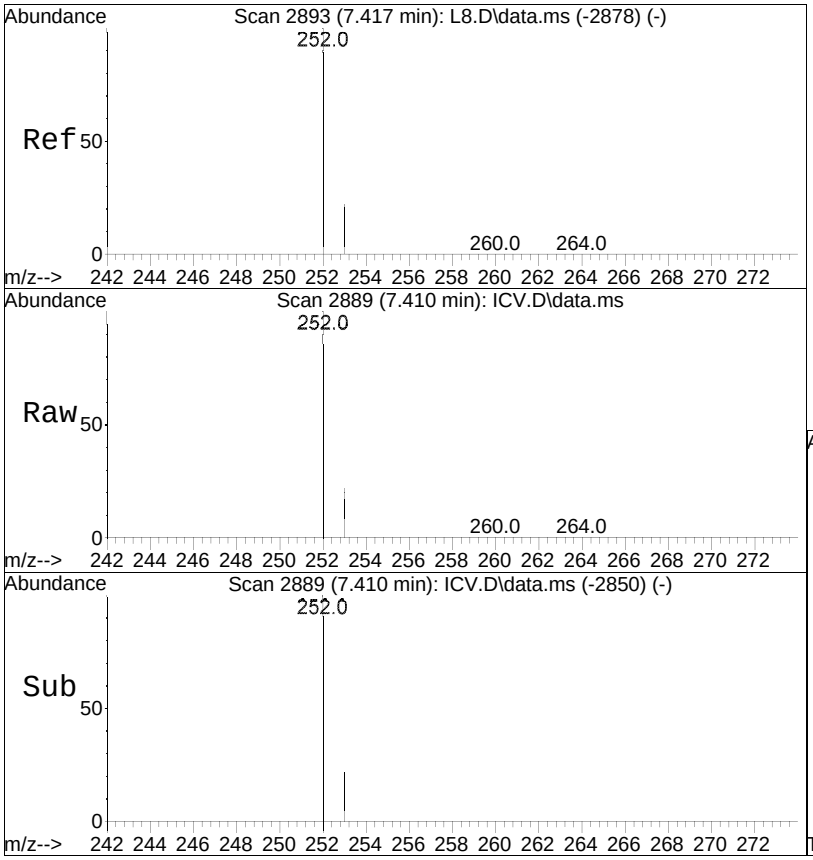


#38
Benzo[k]fluoranthene
Concen: 984.26 ng/ml
RT: 7.125 min Scan# 2769
Delta R.T. -0.007 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:252 Resp: 419398

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.6	26.4

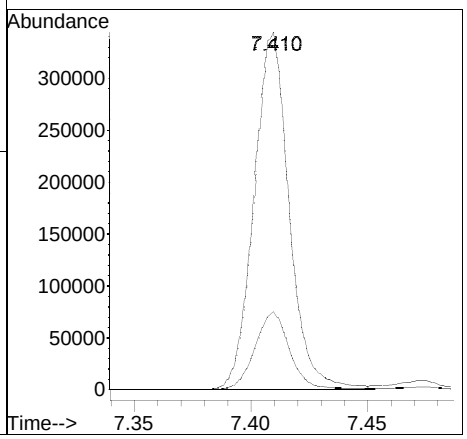


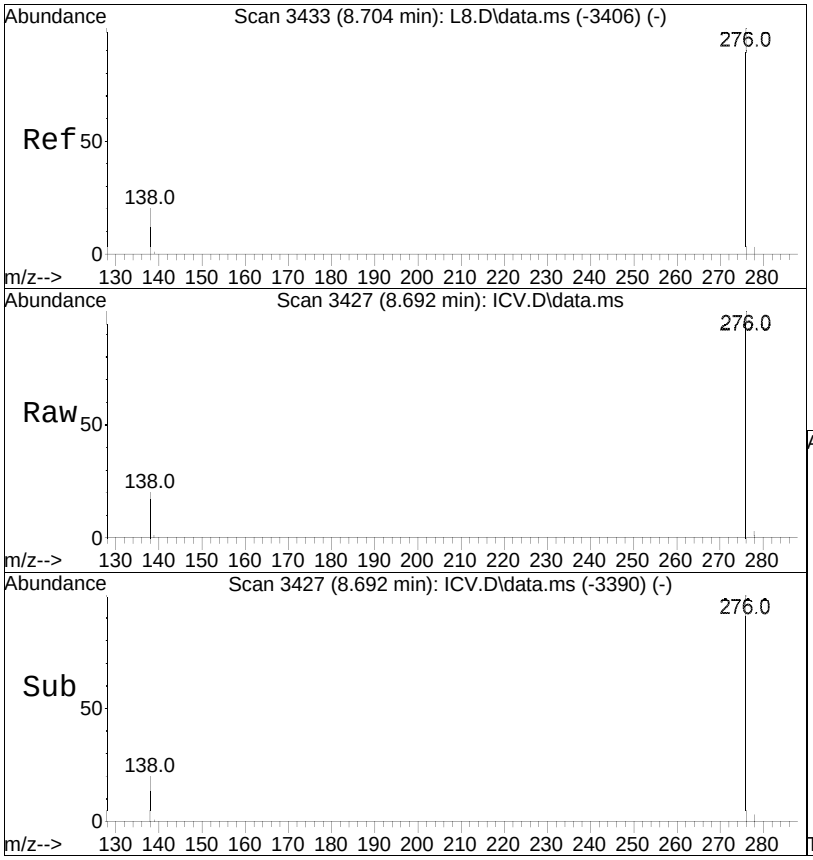


#39
Benzo[a]pyrene
Concen: 1003.79 ng/ml
RT: 7.410 min Scan# 2889
Delta R.T. -0.007 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:252 Resp: 356399

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.5	26.3

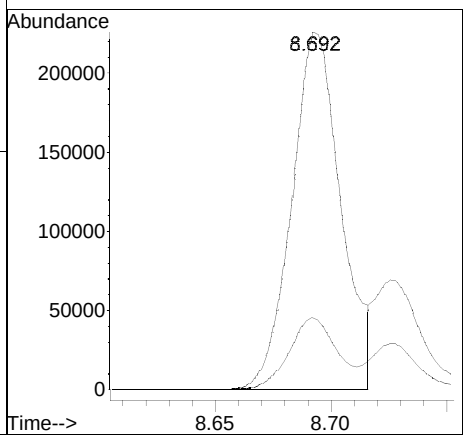


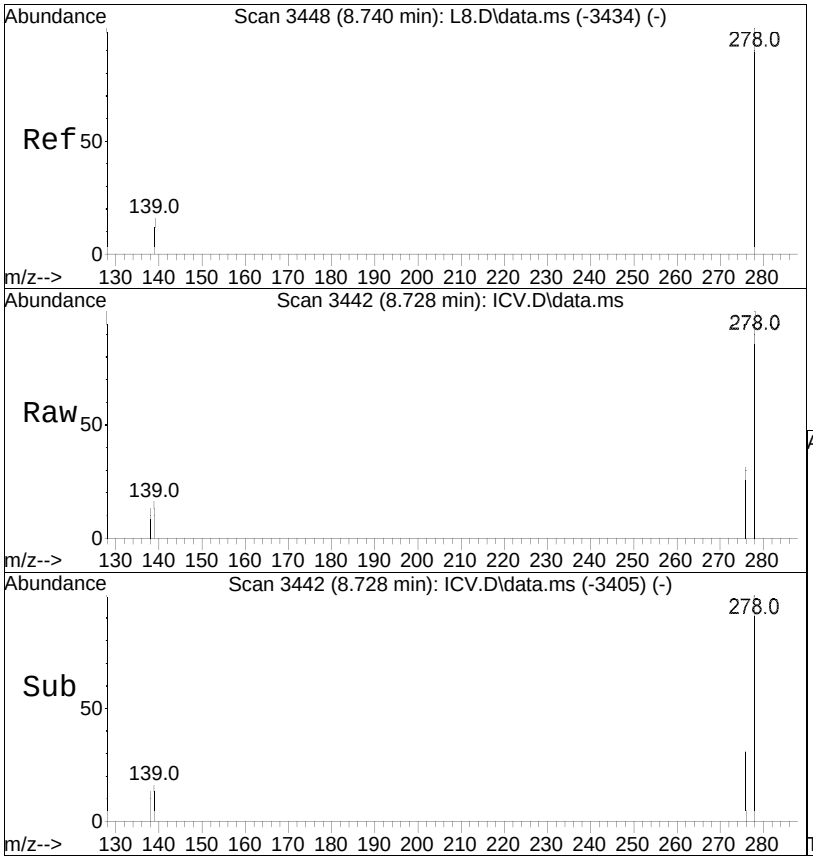


#40
Indeno[1,2,3-cd]pyrene
Concen: 1002.15 ng/ml
RT: 8.692 min Scan# 3427
Delta R.T. -0.012 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:276 Resp: 331722

Ion	Ratio	Lower	Upper
276	100		
138	19.7	11.8	17.6#

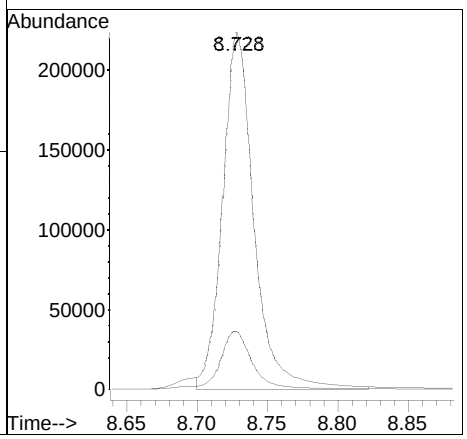


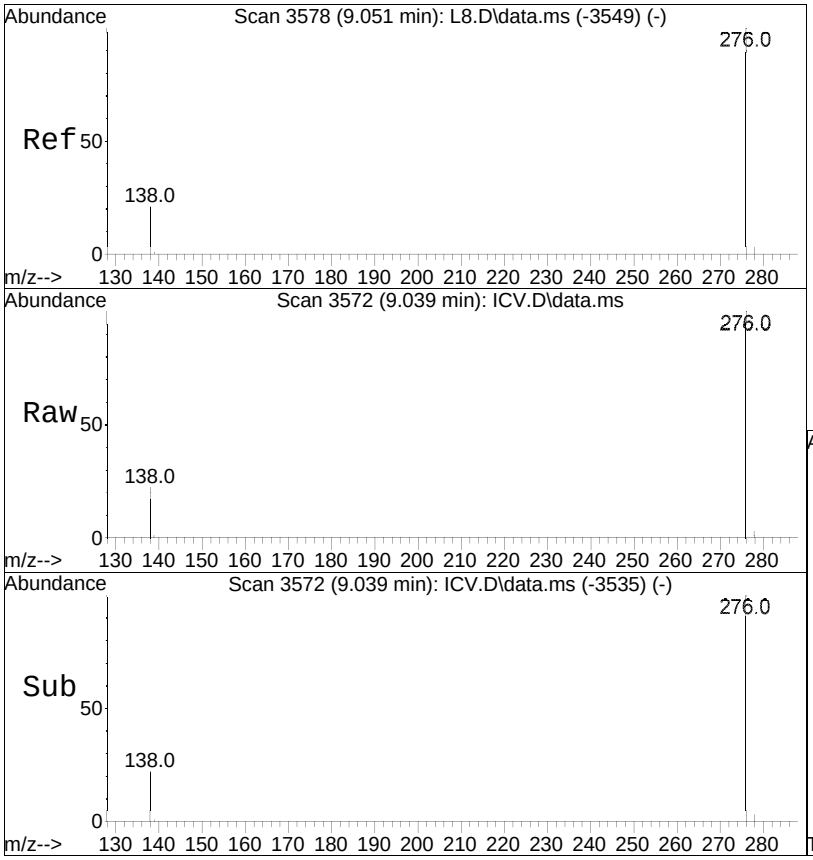


#41
Dibenzo[a,h]anthracene
Concen: 1018.90 ng/ml M6
RT: 8.728 min Scan# 3442
Delta R.T. -0.012 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:278 Resp: 343322

Ion	Ratio	Lower	Upper
278	100		
139	17.0	9.8	14.8#

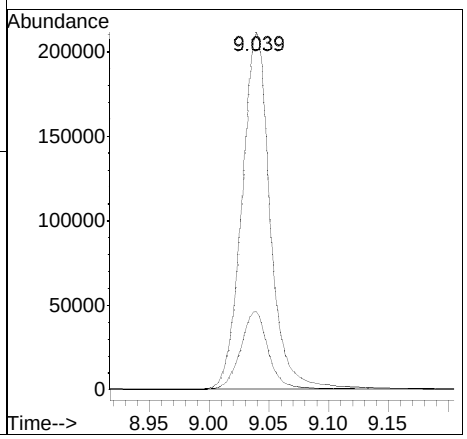




#42
Benzo[g,h,i]perylene
Concen: 984.59 ng/ml
RT: 9.039 min Scan# 3572
Delta R.T. -0.012 min
Lab File: ICV.D
Acq: 25 Oct 2024 07:38 pm

Tgt Ion:276 Resp: 341643

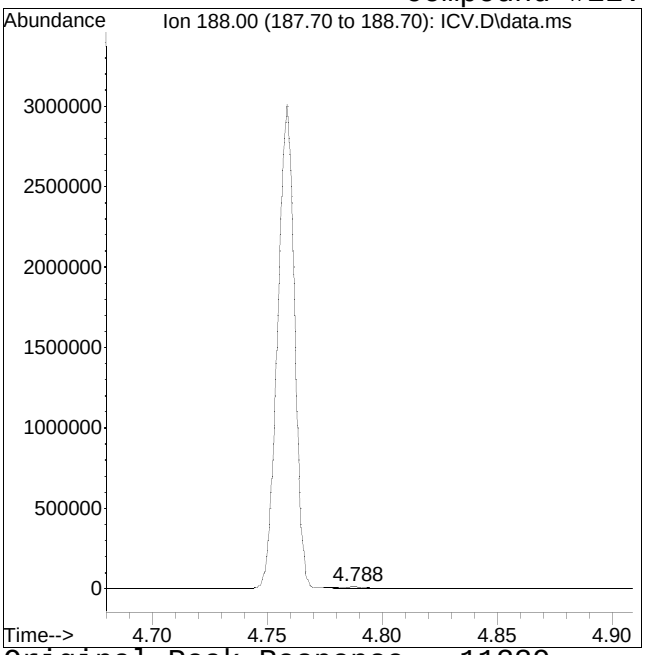
Ion	Ratio	Lower	Upper
276	100		
138	21.9	12.8	19.2#

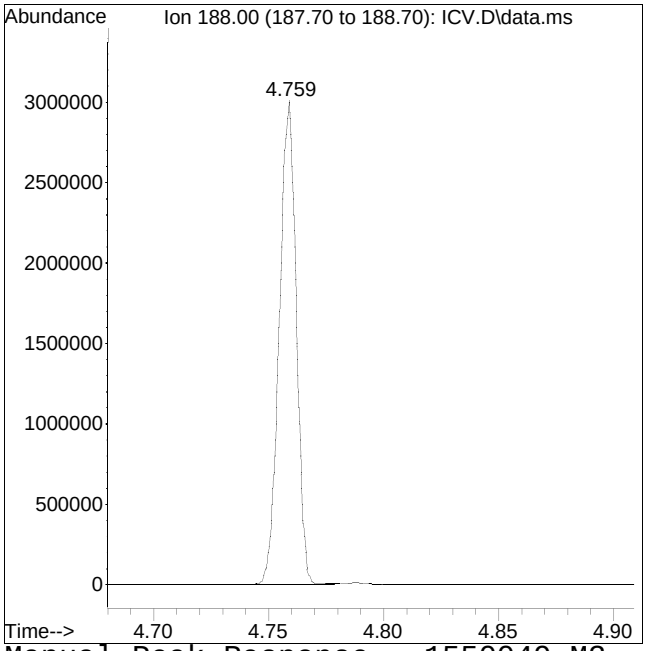


Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : ICV.D Operator : SV118:dv
Date Inj'd : 10/25/2024 7:38 pm Instrument : SV118
Sample : CQICV,32,, #10884 1000 ng/Quant Date : 12/4/2024 11:32 am

Compound #22: Phenanthrene-d10



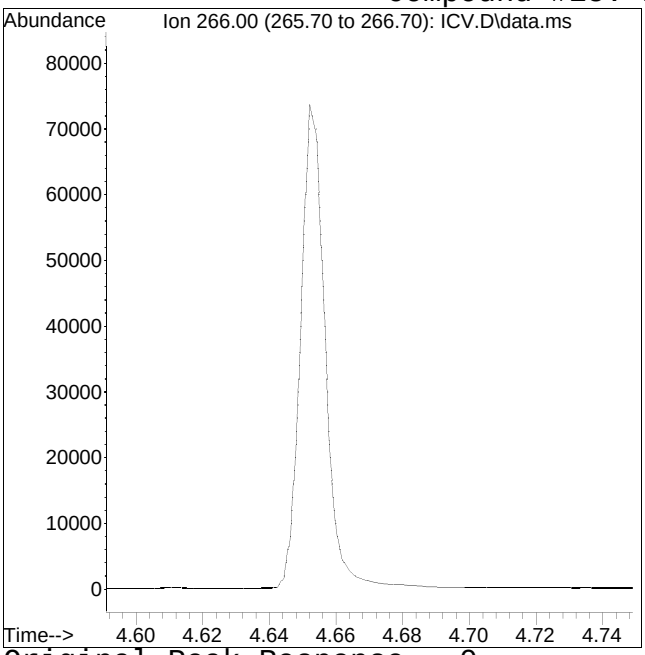


Original Peak Response = 11239 Manual Peak Response = 1550049 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

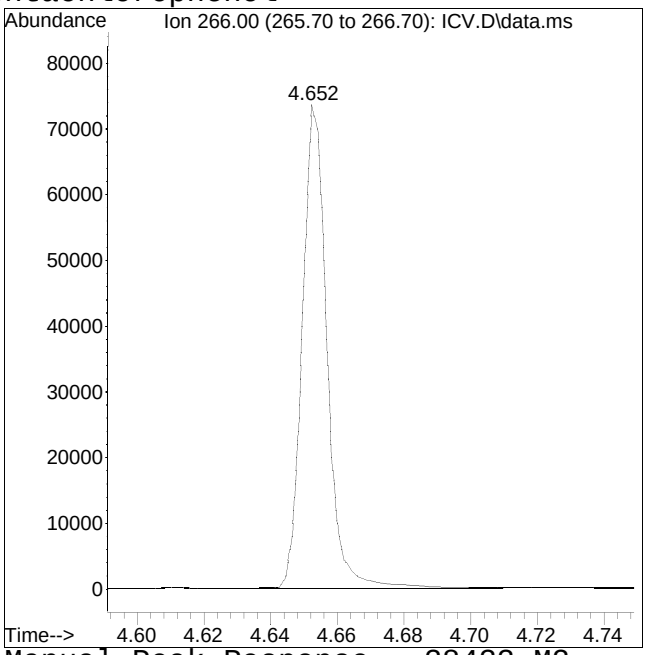
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : ICV.D Operator : SV118:dv
Date Inj'd : 10/25/2024 7:38 pm Instrument : SV118
Sample : CQICV,32,, #10884 1000 ng/Quant Date : 12/4/2024 11:32 am

Compound #25: Pentachlorophenol



Original Peak Response = 0



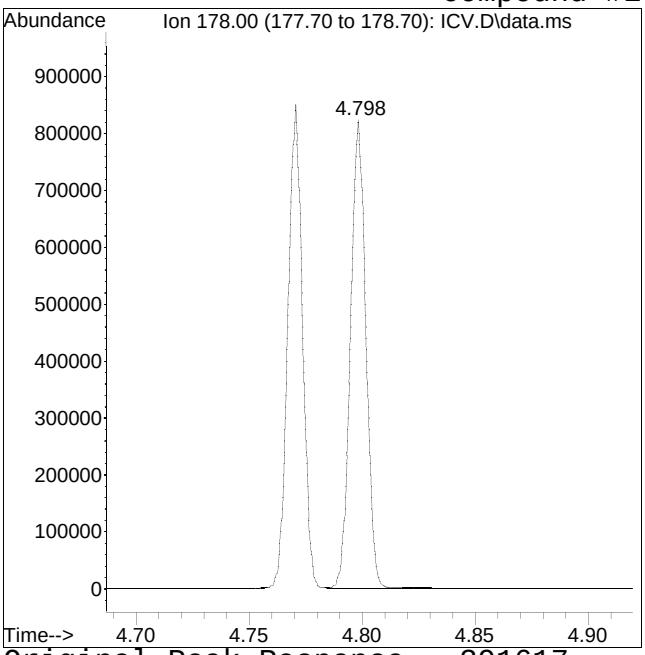
Manual Peak Response = 38433 M2

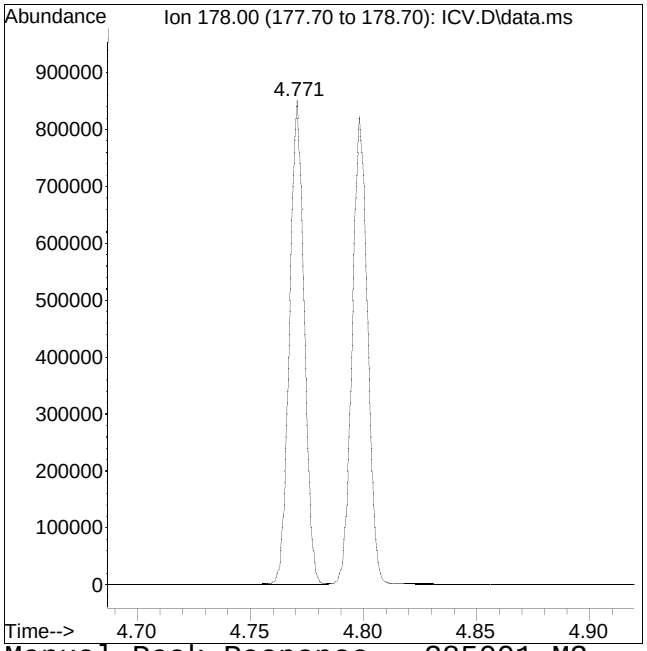
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : ICV.D Operator : SV118:dv
Date Inj'd : 10/25/2024 7:38 pm Instrument : SV118
Sample : CQICV,32,, #10884 1000 ng/Quant Date : 12/4/2024 11:32 am

Compound #26: Phenanthrene



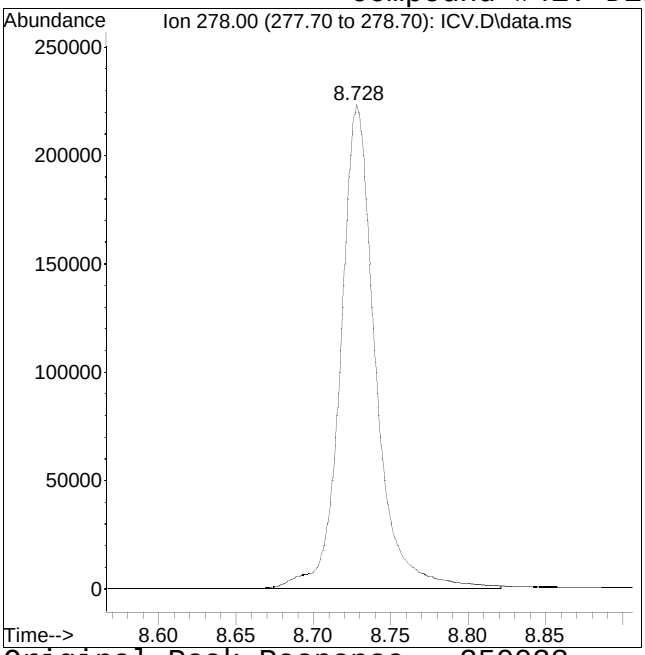


Original Peak Response = 391617 Manual Peak Response = 385001 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

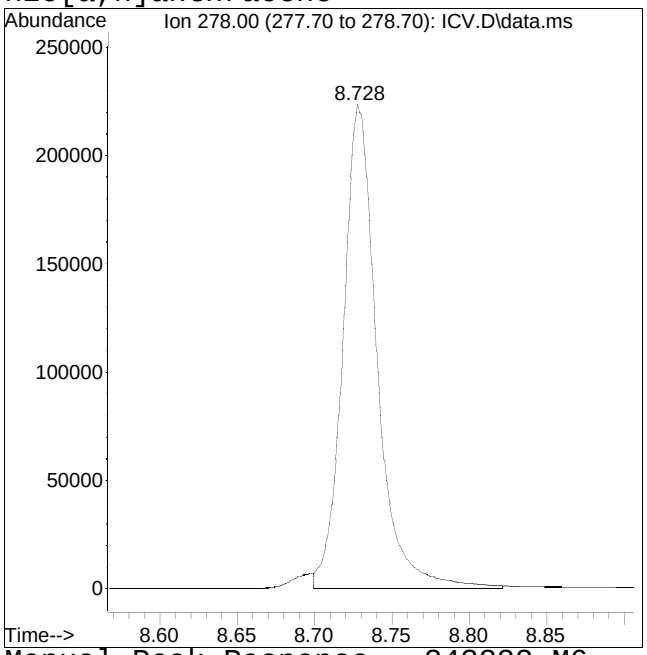
Manual Integration Report

Data Path : I:\8270SIM\SV118\2024\2410QMethod : SIM-RVT_241025sv118.M
Data File : ICV.D Operator : SV118:dv
Date Inj'd : 10/25/2024 7:38 pm Instrument : SV118
Sample : CQICV,32,, #10884 1000 ng/Quant Date : 12/4/2024 11:32 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 350033



Manual Peak Response = 343322 M6

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

Evaluate Relative Error Report SV118

Method Path : I:\8270SIM\SV118\241025RVTical\
Method File : SIM-RVT_241025sv118.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Oct 28 11:02:57 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
4 T	Bis(2-chloroethyl)ether	L	ng/ml	1000.0	1019.044	1.9	5.00	2.976	-40.5
19 T	2,4-Dinitrotoluene	L	ng/ml	1000.0	932.864	-6.7	40.00	46.482	16.2
23 T	4,6-Dinitro-o-cresol	L	ng/ml	1000.0	927.565	-7.2	40.00	46.224	15.6

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
4 T	Bis(2-chloroethyl)ether	Linear	0.994856	0.000000	1.18217	0.000723717
19 T	2,4-Dinitrotoluene	Linear	0.997765	0.000000	0.254615	-0.00159123
23 T	4,6-Dinitro-o-cresol	Linear	0.997228	0.000000	0.0517324	-0.000314499

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV118	**Calibration Date**	: 12/16/24 07:27		
Lab File ID	: CCV1216	**Init. Calib. Date(s)**	: 10/25/24	10/25/24	
Sample No	: WG2009609-3	**Init. Calib. Times**	: 16:43	19:21	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.01	0	20	78	0
2-Fluorophenol	1.131	1.141	.01	-0.9	20	81	0
Phenol-d6	1.39	1.298	.01	6.6	20	74	0
Bis(2-chloroethyl)ether	1000	893.958	.01	10.6	20	69	0
n-nitrosodi-n-propylamine	0.879	0.763	.01	13.2	20	68	0
Hexachloroethane	0.502	0.495	.01	1.4	20	78	0
Nitrobenzene-d5	0.897	1.071	.01	-19.4	20	89	0
Naphthalene-d8	1	1	.01	0	20	73	0
Naphthalene	1.053	0.918	.01	12.8	20	66	0
Hexachlorobutadiene	0.187	0.167	.01	10.7	20	67	0
2-Methylnaphthalene	0.674	0.612	.01	9.2	20	67	0
1-Methylnaphthalene	0.627	0.562	.01	10.4	20	67	0
2-Fluorobiphenyl	0.769	0.666	.01	13.4	20	65	0
2-Chloronaphthalene	0.677	0.576	.01	14.9	20	63	0
2,6-Dinitrotoluene	0.092	0.126	.01	-37*	20	96	0
Acenaphthylene	1.002	0.881	.01	12.1	20	63	0
Acenaphthene-d10	1	1	.01	0	20	74	0
Acenaphthene	1.308	1.091	.01	16.6	20	64	0
2,4-Dinitrotoluene	1000	1257.601	.01	-25.8*	20	101	0
Fluorene	1.393	1.188	.01	14.7	20	64	0
2,4,6-Tribromophenol	0.184	0.194	.01	-5.4	20	74	0
Phenanthrene-d10	1	1	.01	0	20	74	0
4,6-Dinitro-o-cresol	1000	1568.411	.01	-56.8*	20	127	0
Hexachlorobenzene	0.263	0.202	.01	23.2*	20	58	0
Pentachlorophenol	0.098	0.091	.01	7.1	20	62	0
Phenanthrene	1.086	0.866	.01	20.3*	20	62	0
Anthracene	1.066	0.895	.01	16	20	63	0
Fluoranthene	1.216	1.005	.01	17.4	20	62	0
Pyrene	1.291	1.081	.01	16.3	20	63	0
4-Terphenyl-d14	0.818	0.683	.01	16.5	20	64	0
Chrysene-d12	1	1	.01	0	20	97	0
Benzo[a]anthracene	0.392	0.307	.01	21.7*	20	83	0
3,3'-Dichlorobenzidine	0.418	0.434	.01	-3.8	20	89	0
Chrysene	1.207	1.039	.01	13.9	20	85	0
Bis(2-ethylhexyl)phthalate	0.696	0.685	.01	1.6	20	90	0
Perylene-d12	1	1	.01	0	20	93	0
Benzo[b]fluoranthene	1.031	0.989	.01	4.1	20	87	0
Benzo[k]fluoranthene	1.093	1.036	.01	5.2	20	84	0
Benzo[a]pyrene	0.911	0.899	.01	1.3	20	86	0
Indeno[1,2,3-cd]pyrene	0.849	0.854	.01	-0.6	20	83	0
Dibenzo[a,h]anthracene	0.865	0.863	.01	0.2	20	85	0
Benzo[g,h,i]perylene	0.89	0.825	.01	7.3	20	82	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : ccv1216.D
Acq On : 16 Dec 2024 07:27 am
Operator : SV118:kmh
Sample : wg2009609-3,32,,ICV 10884 (1130a)
Misc : wg2009609,,ical21646
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 16 07:49:46 2024
Quant Method : I:\8270SIM\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
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	78	0.00
2	s	2-Fluorophenol	1.131	1.141	-0.9	81	0.00
3	s	Phenol-d6	1.390	1.298	6.6	74	0.00
4	T	Bis(2-chloroethyl)ether	*1000.000	893.958	10.6	69	0.00
5	T	n-nitrosodi-n-propylamine	0.879	0.763	13.2	68	0.00
6	t	Hexachloroethane	0.502	0.495	1.4	78	0.00
7	s	Nitrobenzene-d5	0.897	1.071	-19.4	89	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	73	0.00
9	t	Naphthalene	1.053	0.918	12.8	66	0.00
10	t	Hexachlorobutadiene	0.187	0.167	10.7	67	0.00
11	t	2-Methylnaphthalene	0.674	0.612	9.2	67	0.00
12	t	1-Methylnaphthalene	0.627	0.562	10.4	67	0.00
13	s	2-Fluorobiphenyl	0.769	0.666	13.4	65	0.00
14	t	2-Chloronaphthalene	0.677	0.576	14.9	63	0.00
15	t	2,6-Dinitrotoluene	0.092	0.126	-37.0#	96	0.00
16	t	Acenaphthylene	1.002	0.881	12.1	63	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	74	0.00
18	t	Acenaphthene	1.308	1.091	16.6	64	0.00
19	t	2,4-Dinitrotoluene	*1000.000	1257.601	-25.8#	101	0.00
20	t	Fluorene	1.393	1.188	14.7	64	0.00
21	s	2,4,6-Tribromophenol	0.184	0.194	-5.4	74	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	74	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	1568.411	-56.8#	127	0.00
24	t	Hexachlorobenzene	0.263	0.202	23.2#	58	0.00
25	t	Pentachlorophenol	0.098	0.091	7.1	62	0.00
26	t	Phenanthrene	1.086	0.866	20.3#	62	0.00
27	t	Anthracene	1.066	0.895	16.0	63	0.00
28	t	Fluoranthene	1.216	1.005	17.4	62	0.00
29	t	Pyrene	1.291	1.081	16.3	63	0.00
30	s	4-Terphenyl-d14	0.818	0.683	16.5	64	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	97	0.00
32	t	Benzo[a]anthracene	0.392	0.307	21.7#	83	0.00
33	t	3,3'-Dichlorobenzidine	0.418	0.434	-3.8	89	0.00
34	t	Chrysene	1.207	1.039	13.9	85	0.00
35	T	Bis(2-ethylhexyl)phthalate	0.696	0.685	1.6	90	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : ccv1216.D
Acq On : 16 Dec 2024 07:27 am
Operator : SV118:kmh
Sample : wg2009609-3,32,,ICV 10884 (1130a)
Misc : wg2009609,,ical21646
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 16 07:49:46 2024
Quant Method : I:\8270SIM\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
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	93	0.00
37	t	Benzo[b]fluoranthene	1.031	0.989	4.1	87	0.00
38	t	Benzo[k]fluoranthene	1.093	1.036	5.2	84	0.00
39	t	Benzo[a]pyrene	0.911	0.899	1.3	86	0.00
40	t	Indeno[1,2,3-cd]pyrene	0.849	0.854	-0.6	83	0.00
41	t	Dibenzo[a,h]anthracene	0.865	0.863	0.2	85	0.00
42	t	Benzo[g,h,i]perylene	0.890	0.825	7.3	82	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\241216RVT\
Data File : ccv1216.D
Acq On : 16 Dec 2024 07:27 am
Operator : SV118:kmh
Sample : wg2009609-3,32,,ICV 10884 (1130a)
Misc : wg2009609,,ical21646
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 16 07:49:46 2024
Quant Method : I:\8270SIM\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
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	2.221	152	337319	4000.000	ng/ml		0.00
8) Naphthalene-d8	2.893	136	1155411	4000.000	ng/ml		0.00
17) Acenaphthene-d10	3.876	164	643247	4000.000	ng/ml		0.00
22) Phenanthrene-d10	4.718	188	1305613	4000.000	ng/ml	#	0.00
31) Chrysene-d12	6.289	240	1642453	4000.000	ng/ml		0.00
36) Perylene-d12	7.498	264	1677056	4000.000	ng/ml		0.00
System Monitoring Compounds							
2) 2-Fluorophenol	1.631	112	96230	1009.013	ng/ml		0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 50.45%				
3) Phenol-d6	2.037	99	109456	933.996	ng/ml		0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 46.70%				
7) Nitrobenzene-d5	2.506	82	90275	1193.162	ng/ml		0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 119.32%				
13) 2-Fluorobiphenyl	3.494	172	192351	865.822	ng/ml		0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 86.58%				
21) 2,4,6-Tribromophenol	4.321	330	31225	1053.466	ng/ml		0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 52.67%				
30) 4-Terphenyl-d14	5.638	244	222890	834.364	ng/ml		0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 83.44%				
Target Compounds							Qvalue
4) Bis(2-chloroethyl)ether	2.085	93	89365	893.958	ng/ml		94
5) n-nitrosodi-n-propylamine	2.424	70	64356	868.301	ng/ml		93
6) Hexachloroethane	2.483	117	41762	986.784	ng/ml		86
9) Naphthalene	2.901	128	265301	872.271	ng/ml		100
10) Hexachlorobutadiene	2.976	225	48369	896.006	ng/ml		100
11) 2-Methylnaphthalene	3.286	142	176805	907.561	ng/ml		98
12) 1-Methylnaphthalene	3.341	142	162460	896.378	ng/ml		98
14) 2-Chloronaphthalene	3.559	162	166482	851.455	ng/ml	#	87
15) 2,6-Dinitrotoluene	3.756	165	36414	1375.970	ng/ml	#	87
16) Acenaphthylene	3.793	152	254476	879.169	ng/ml		99
18) Acenaphthene	3.893	153	175436	834.287	ng/ml		99
19) 2,4-Dinitrotoluene	3.985	165	50469	1257.601	ng/ml	#	84
20) Fluorene	4.182	166	191102	853.016	ng/ml		98
23) 4,6-Dinitro-o-cresol	4.214	198	26073	1568.411	ng/ml	#	79
24) Hexachlorobenzene	4.501	284	65798	765.458	ng/ml		91
25) Pentachlorophenol	4.617	266	29752	930.528	ng/ml		99
26) Phenanthrene	4.729	178	282641	797.447	ng/ml		100
27) Anthracene	4.757	178	292044	839.616	ng/ml		99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : ccv1216.D
Acq On : 16 Dec 2024 07:27 am
Operator : SV118:kmh
Sample : wg2009609-3,32,,ICV 10884 (1130a)
Misc : wg2009609,,ical21646
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 16 07:49:46 2024
Quant Method : I:\8270SIM\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Fluoranthene	5.411	202	327917	826.510	ng/ml#	90
29) Pyrene	5.545	202	352965	837.489	ng/ml	100
32) Benzo[a]anthracene	6.278	226	126172	784.412	ng/ml#	99
33) 3,3'-Dichlorobenzidine	6.267	252	178031	1038.335	ng/ml	99
34) Chrysene	6.304	228	426770	861.355	ng/ml#	100
35) Bis(2-ethylhexyl)phtha...	6.308	149	281184	984.142	ng/ml	96
37) Benzo[b]fluoranthene	7.118	252	414619	958.942	ng/ml	100
38) Benzo[k]fluoranthene	7.141	252	434240	947.237	ng/ml	100
39) Benzo[a]pyrene	7.427	252	376776	986.356	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.704	276	358006	1005.300	ng/ml#	83
41) Dibenzo[a,h]anthracene	8.745	278	361824M6	998.098	ng/ml	
42) Benzo[g,h,i]perylene	9.047	276	346057	926.992	ng/ml#	79

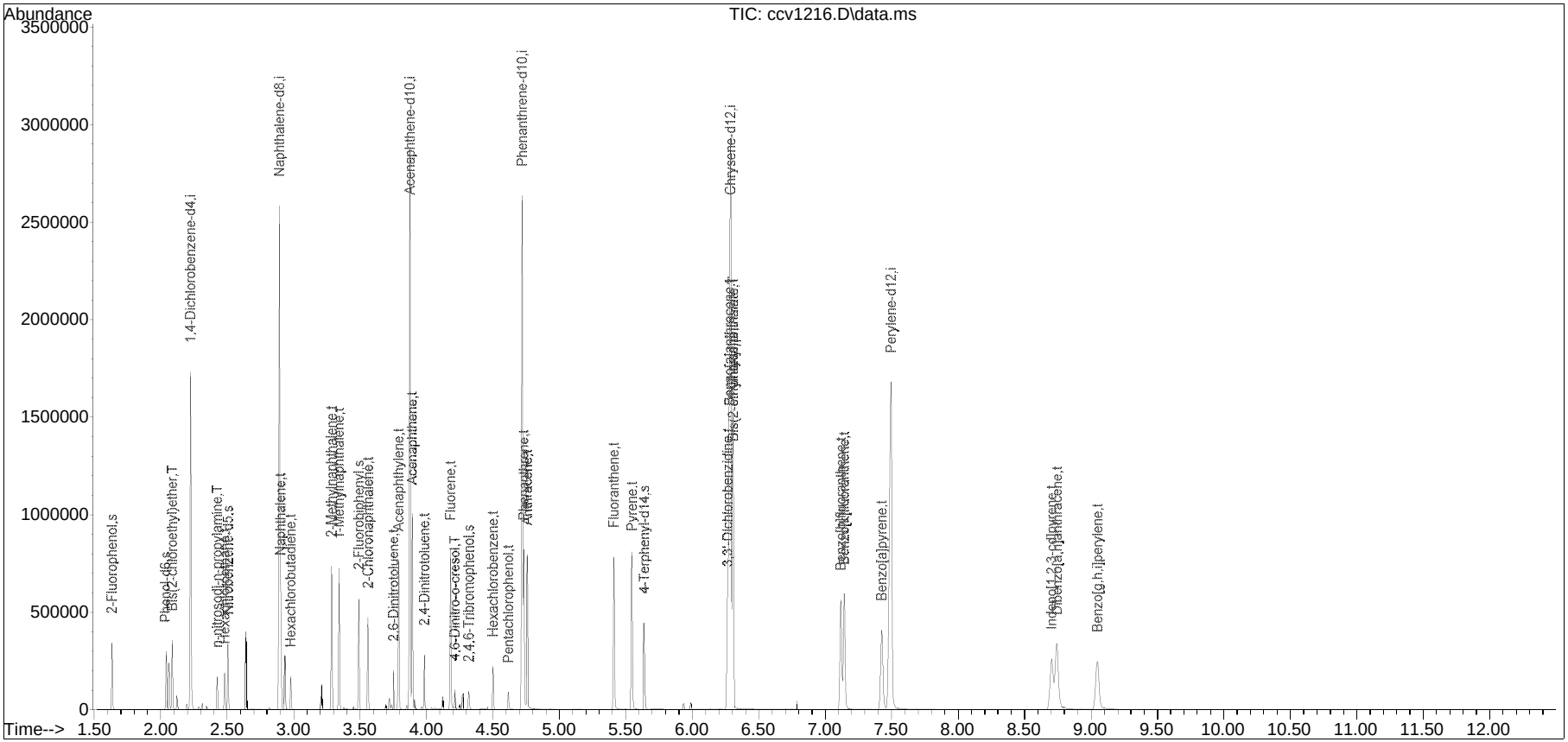
(#) = qualifier out of range (m) = manual integration (+) = signals summed

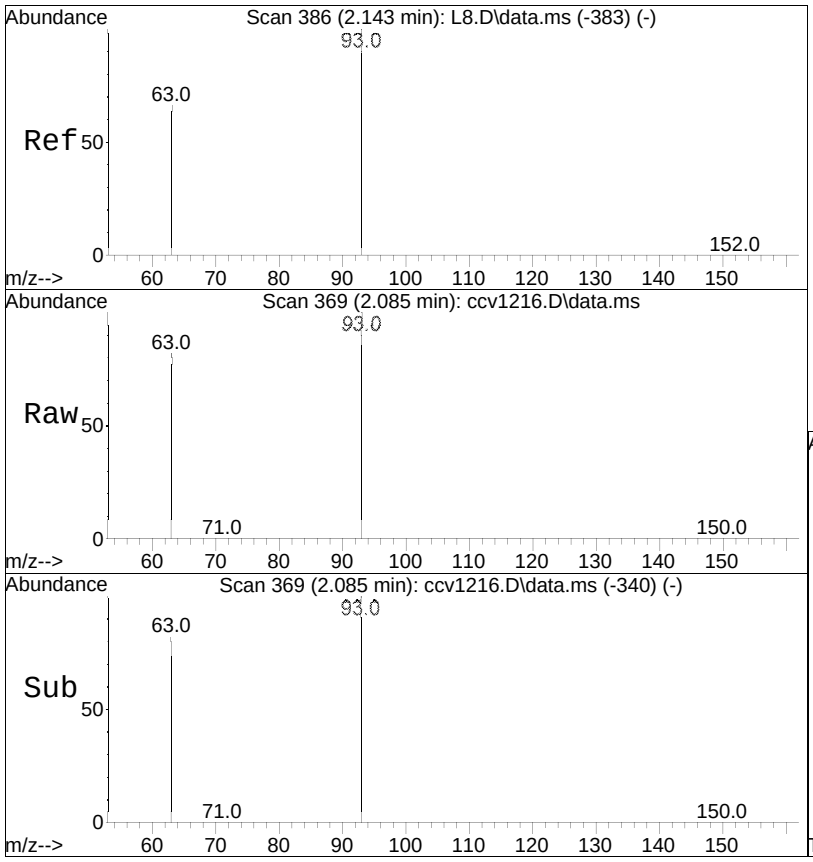
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : ccv1216.D
Acq On : 16 Dec 2024 07:27 am
Operator : SV118:kmh
Sample : wg2009609-3,32,,ICV 10884 (1130a)
Misc : wg2009609,,ical21646
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 16 07:49:46 2024
Quant Method : I:\8270SIM\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

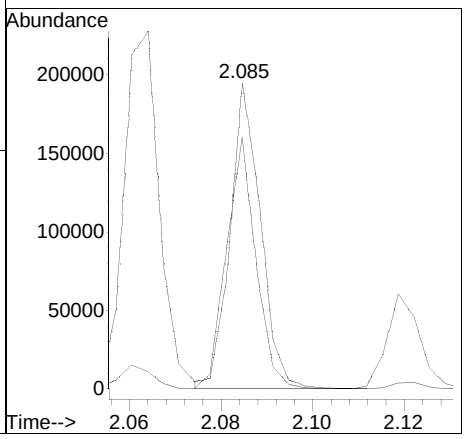


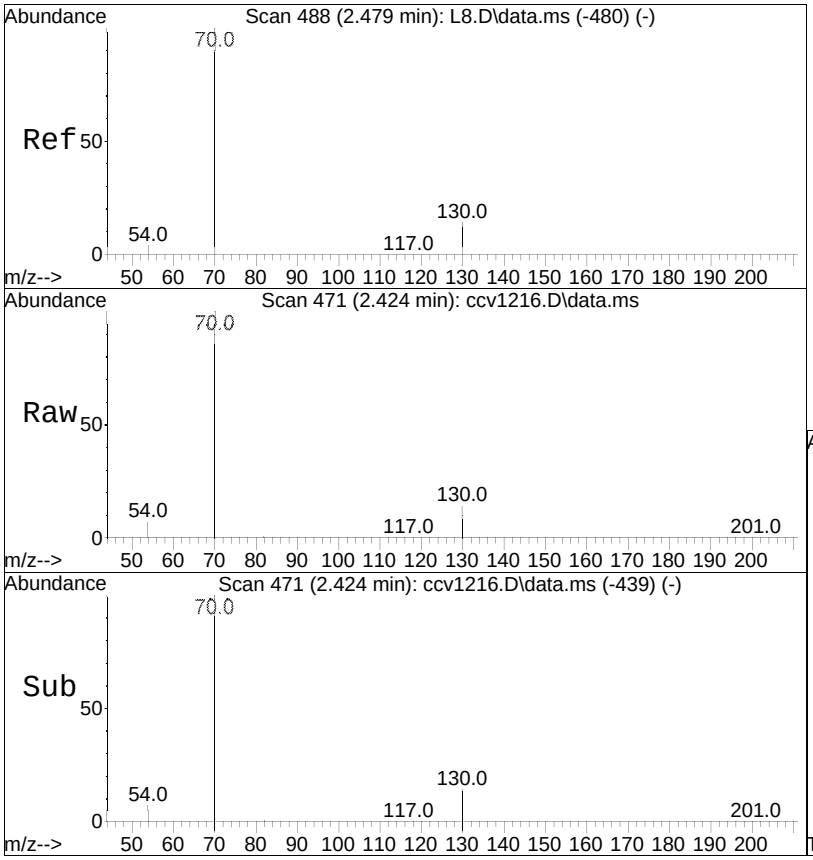


#4
Bis(2-chloroethyl)ether
Concen: 893.96 ng/ml
RT: 2.085 min Scan# 369
Delta R.T. 0.000 min
Lab File: ccv1216.D
Acq: 16 Dec 2024 07:27 am

Tgt Ion: 93 Resp: 89365

Ion	Ratio	Lower	Upper
93	100		
63	79.9	68.1	102.1

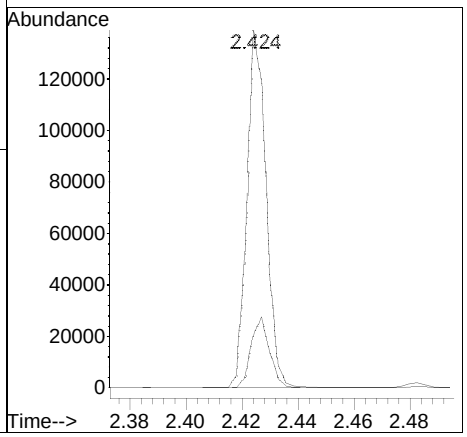


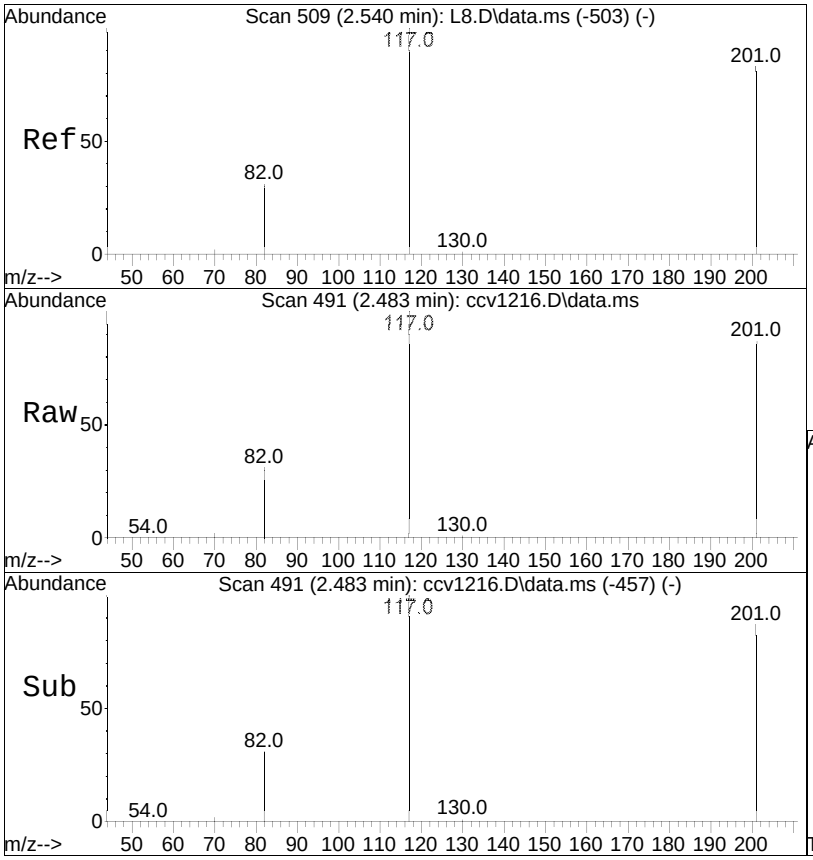


#5
n-nitrosodi-n-propylamine
Concen: 868.30 ng/ml
RT: 2.424 min Scan# 471
Delta R.T. 0.000 min
Lab File: ccv1216.D
Acq: 16 Dec 2024 07:27 am

Tgt Ion: 70 Resp: 64356

Ion	Ratio	Lower	Upper
70	100		
130	19.1	13.0	19.4

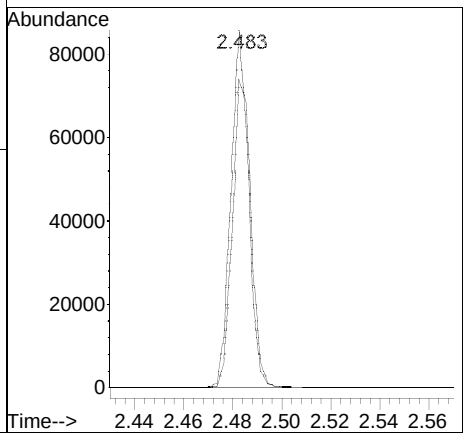


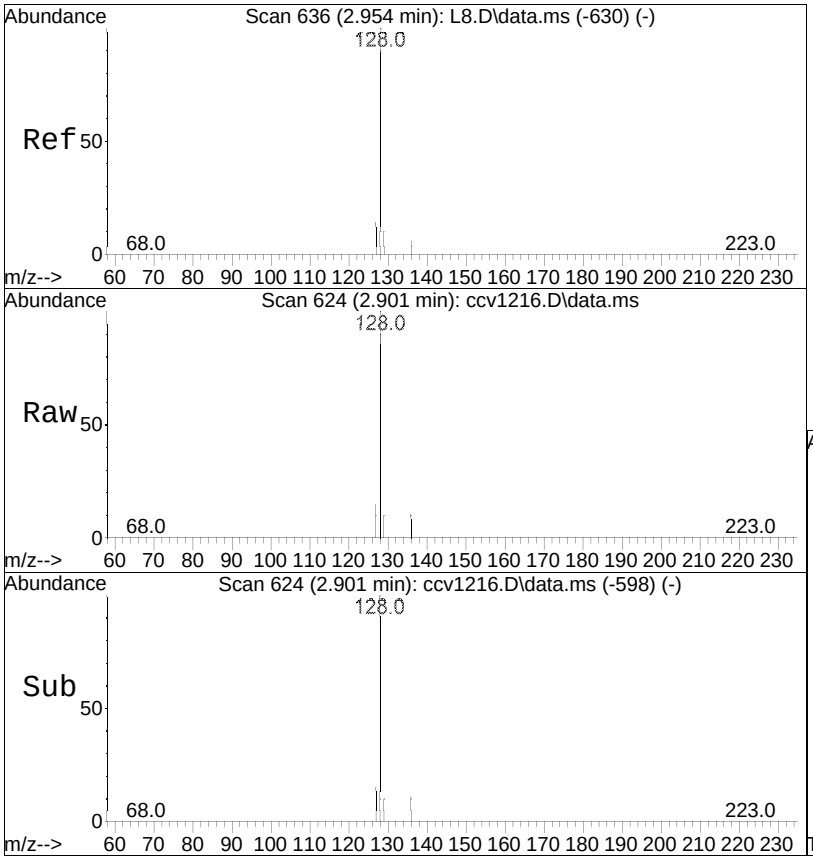


#6
Hexachloroethane
Concen: 986.78 ng/ml
RT: 2.483 min Scan# 491
Delta R.T. 0.000 min
Lab File: ccv1216.D
Acq: 16 Dec 2024 07:27 am

Tgt Ion:117 Resp: 41762

Ion	Ratio	Lower	Upper
117	100		
201	91.6	84.9	127.3

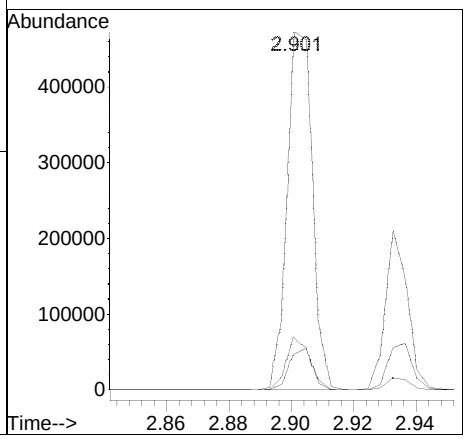


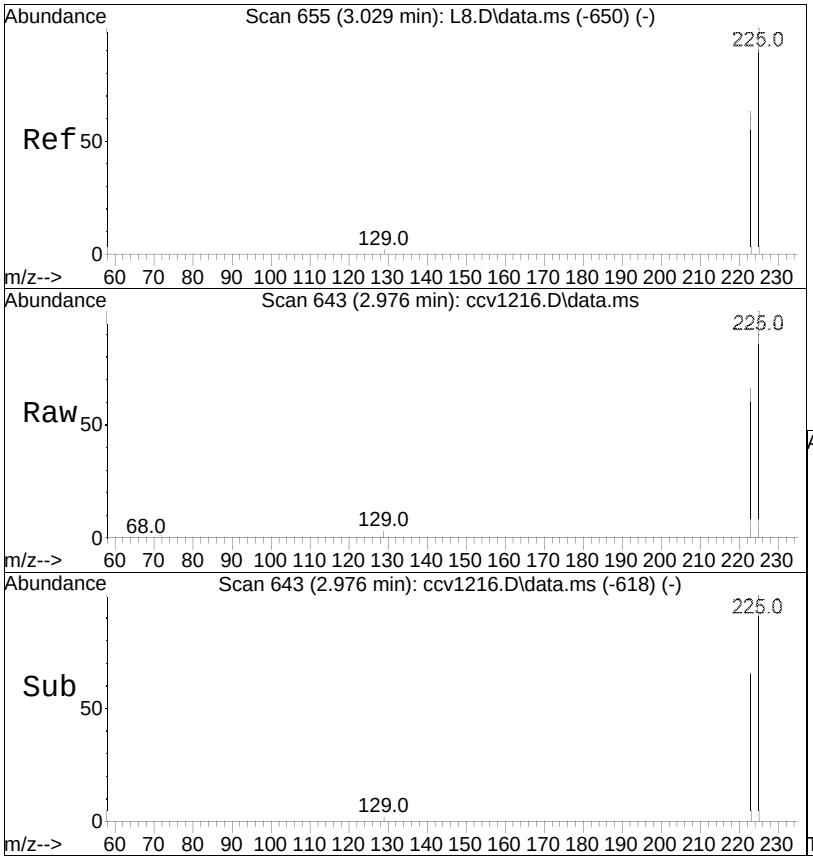


#9
Naphthalene
Concen: 872.27 ng/ml
RT: 2.901 min Scan# 624
Delta R.T. 0.000 min
Lab File: ccv1216.D
Acq: 16 Dec 2024 07:27 am

Tgt Ion:128 Resp: 265301

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.5	10.7	16.1

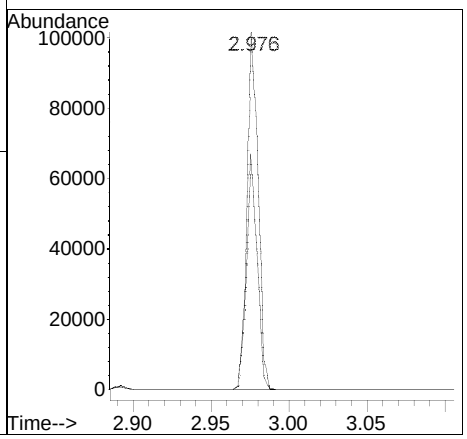


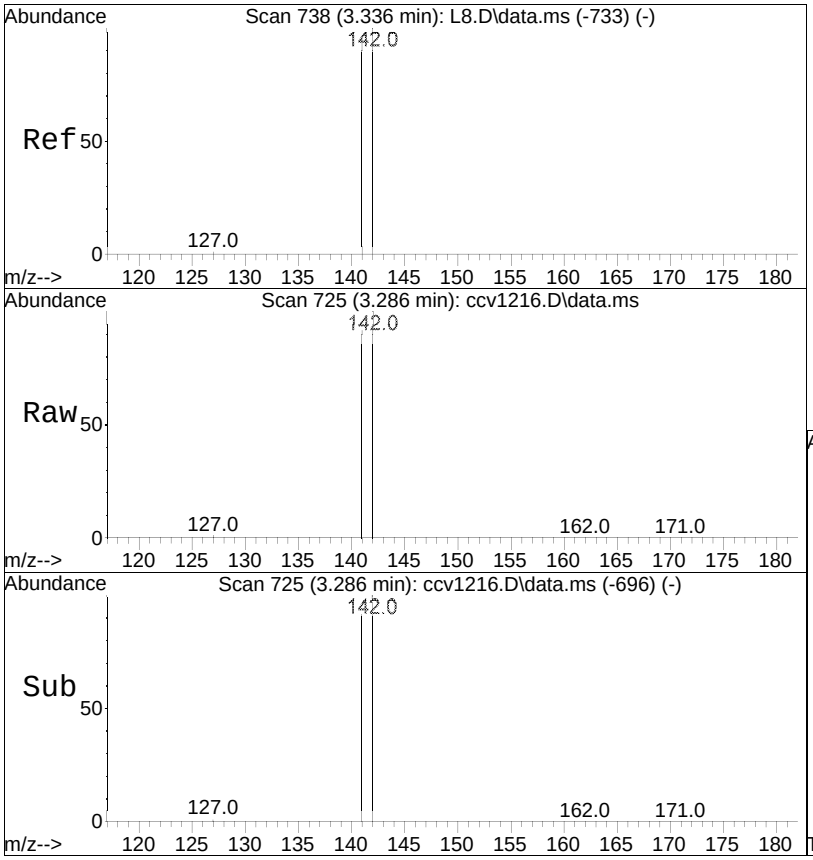


#10
Hexachlorobutadiene
Concen: 896.01 ng/ml
RT: 2.976 min Scan# 643
Delta R.T. 0.000 min
Lab File: ccv1216.D
Acq: 16 Dec 2024 07:27 am

Tgt Ion:225 Resp: 48369

Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.4	75.6

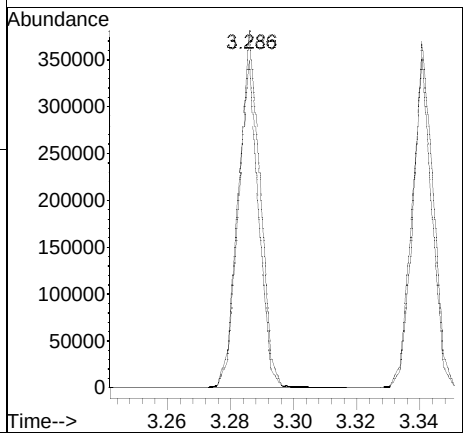


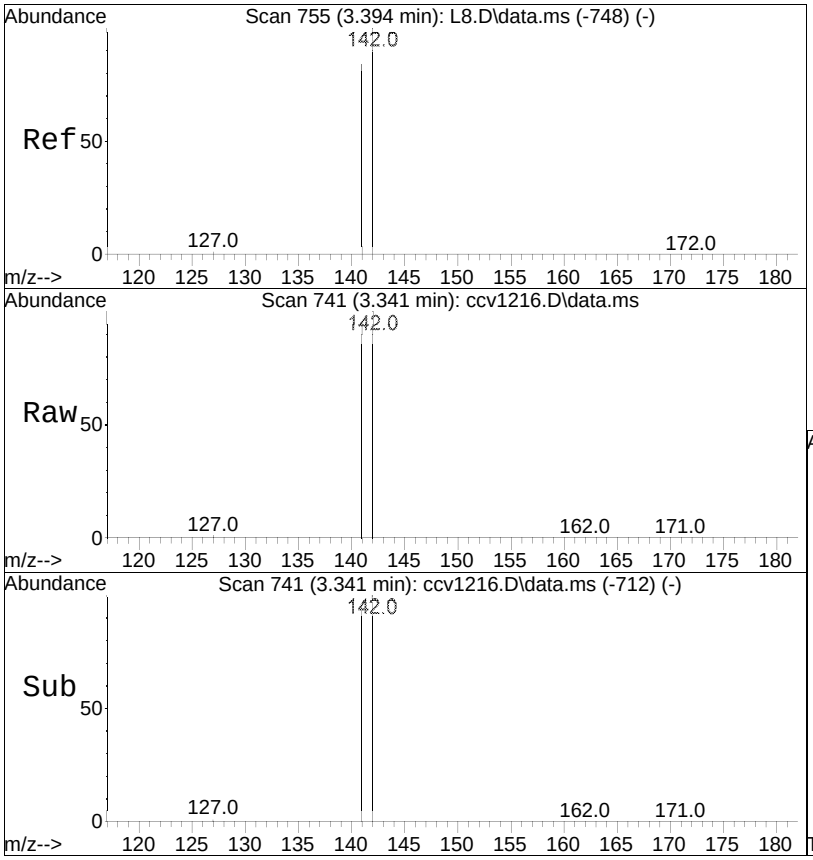


#11
2-Methylnaphthalene
Concen: 907.56 ng/ml
RT: 3.286 min Scan# 725
Delta R.T. 0.000 min
Lab File: ccv1216.D
Acq: 16 Dec 2024 07:27 am

Tgt Ion:142 Resp: 176805

Ion	Ratio	Lower	Upper
142	100		
141	91.5	71.8	107.8

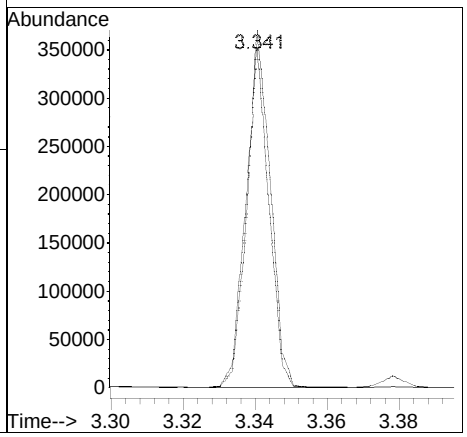


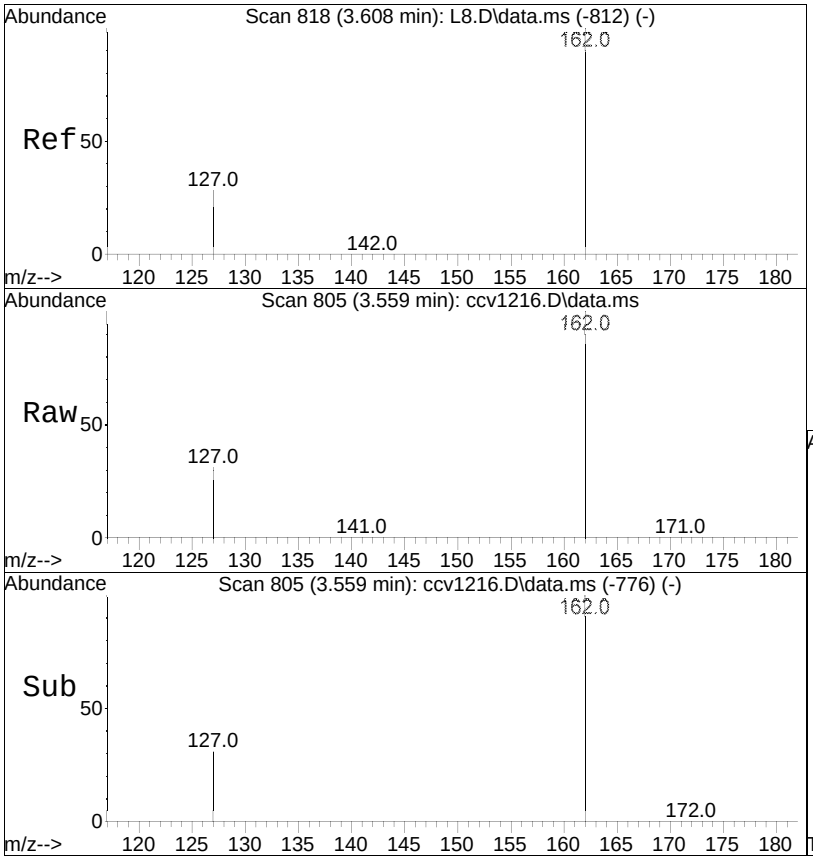


#12
1-Methylnaphthalene
Concen: 896.38 ng/ml
RT: 3.341 min Scan# 741
Delta R.T. 0.000 min
Lab File: ccv1216.D
Acq: 16 Dec 2024 07:27 am

Tgt Ion:142 Resp: 162460

Ion	Ratio	Lower	Upper
142	100		
141	94.8	74.6	111.8

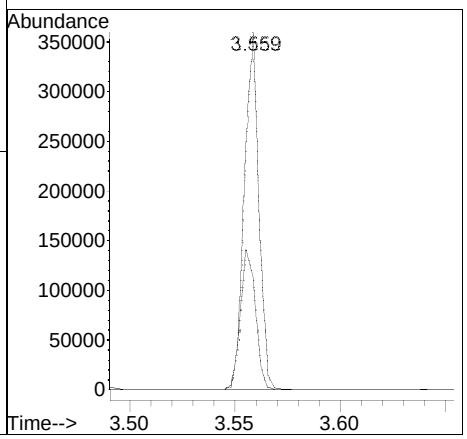


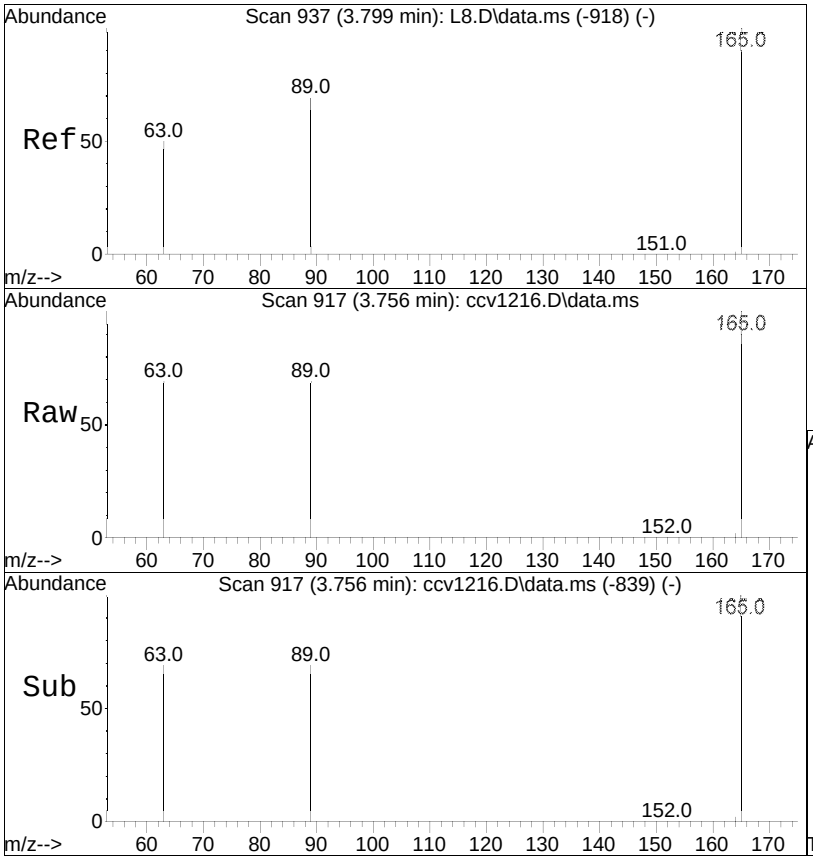


#14
2-Chloronaphthalene
Concen: 851.46 ng/ml
RT: 3.559 min Scan# 805
Delta R.T. 0.000 min
Lab File: ccv1216.D
Acq: 16 Dec 2024 07:27 am

Tgt Ion:162 Resp: 166482

Ion	Ratio	Lower	Upper
162	100		
127	41.1	26.9	40.3#

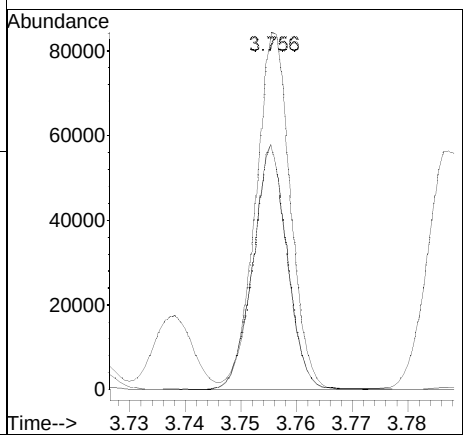


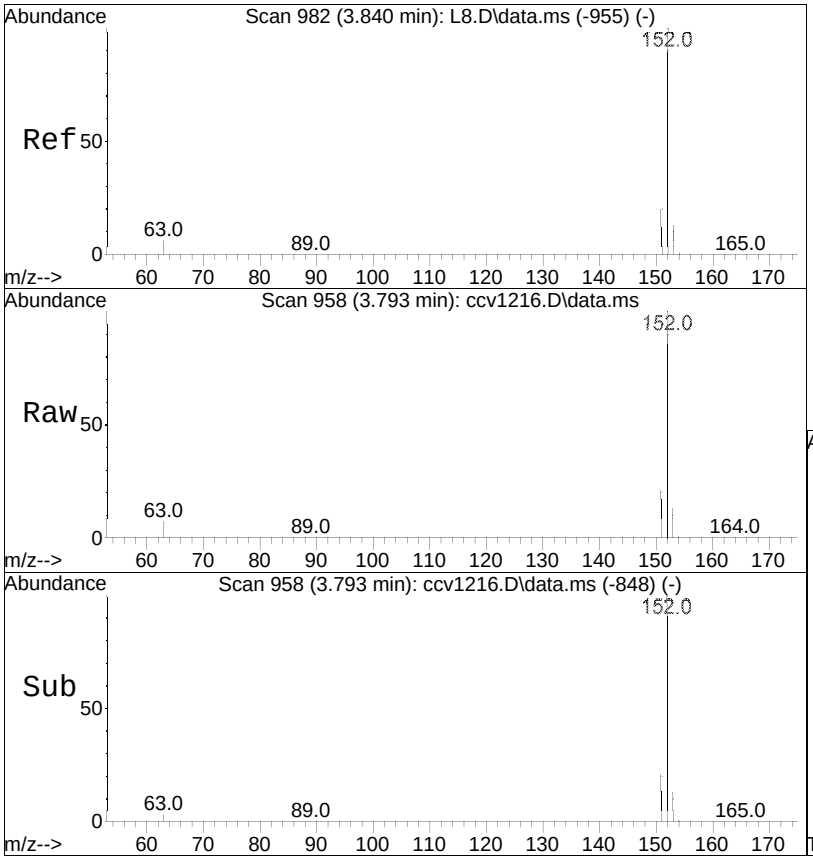


#15
2,6-Dinitrotoluene
Concen: 1375.97 ng/ml
RT: 3.756 min Scan# 917
Delta R.T. 0.000 min
Lab File: ccv1216.D
Acq: 16 Dec 2024 07:27 am

Tgt Ion:165 Resp: 36414

Ion	Ratio	Lower	Upper
165	100		
89	66.7	44.0	66.0#
63	66.4	47.5	71.3

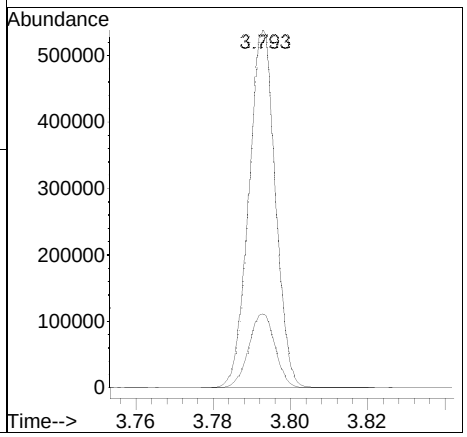


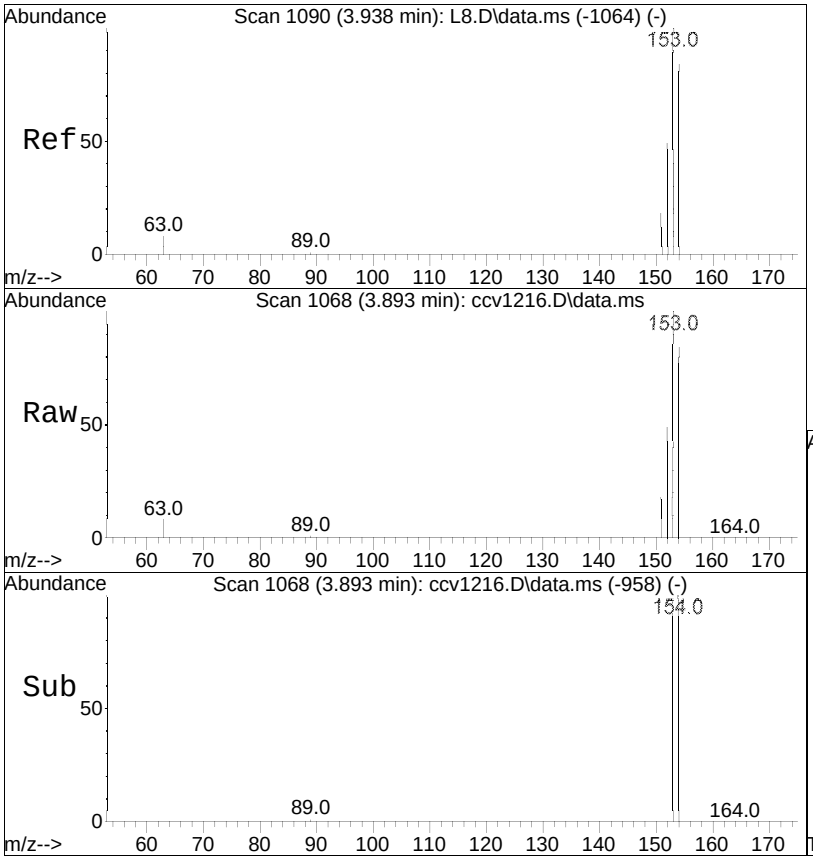


#16
Acenaphthylene
Concen: 879.17 ng/ml
RT: 3.793 min Scan# 958
Delta R.T. 0.000 min
Lab File: ccv1216.D
Acq: 16 Dec 2024 07:27 am

Tgt Ion:152 Resp: 254476

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.2	24.2

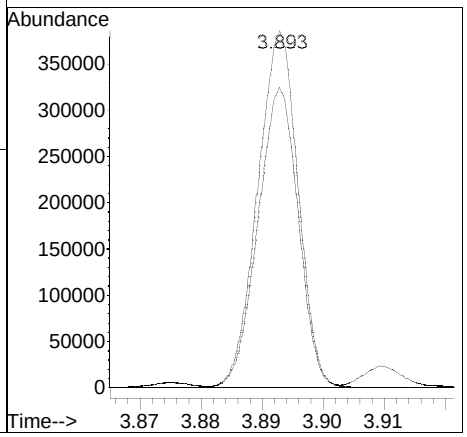


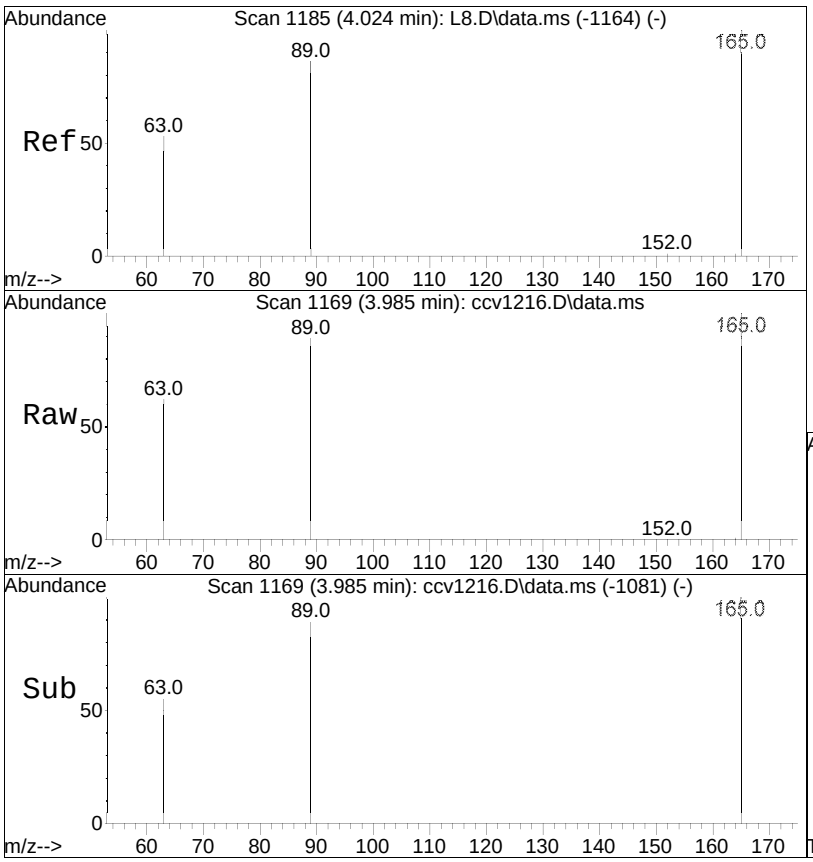


#18
Acenaphthene
Concen: 834.29 ng/ml
RT: 3.893 min Scan# 1068
Delta R.T. 0.000 min
Lab File: ccv1216.D
Acq: 16 Dec 2024 07:27 am

Tgt Ion:153 Resp: 175436

Ion	Ratio	Lower	Upper
153	100		
154	84.0	68.2	102.4

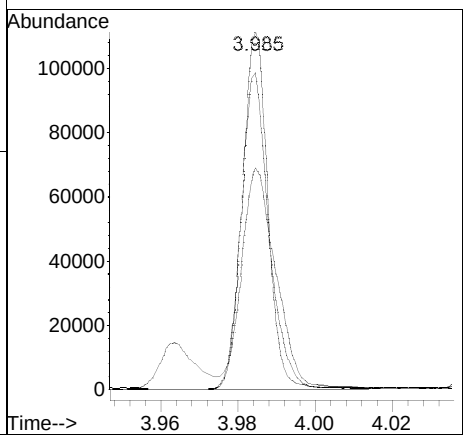


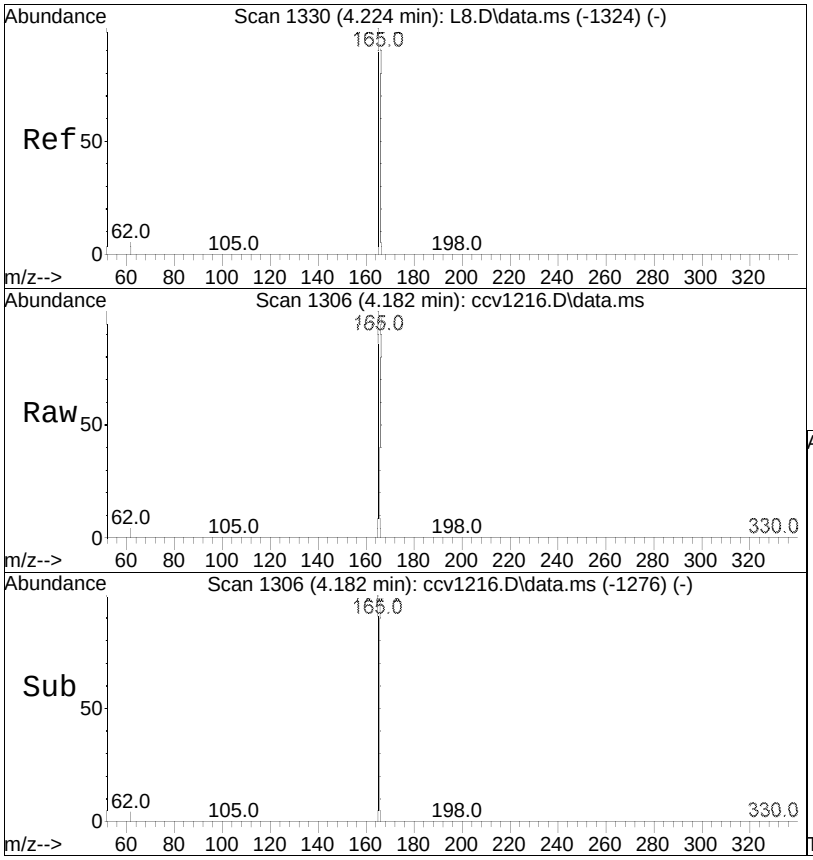


#19
2,4-Dinitrotoluene
Concen: 1257.60 ng/ml
RT: 3.985 min Scan# 1169
Delta R.T. 0.000 min
Lab File: ccv1216.D
Acq: 16 Dec 2024 07:27 am

Tgt Ion:165 Resp: 50469

Ion	Ratio	Lower	Upper
165	100		
89	97.0	64.6	96.8#
63	82.0	56.5	84.7

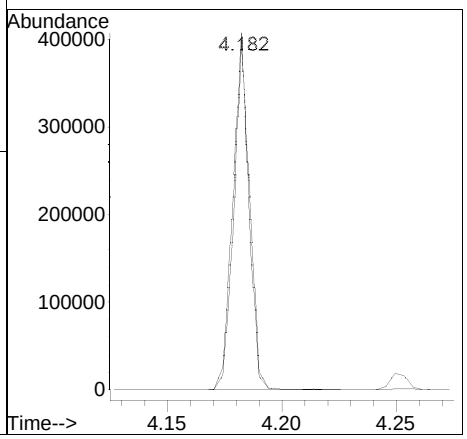


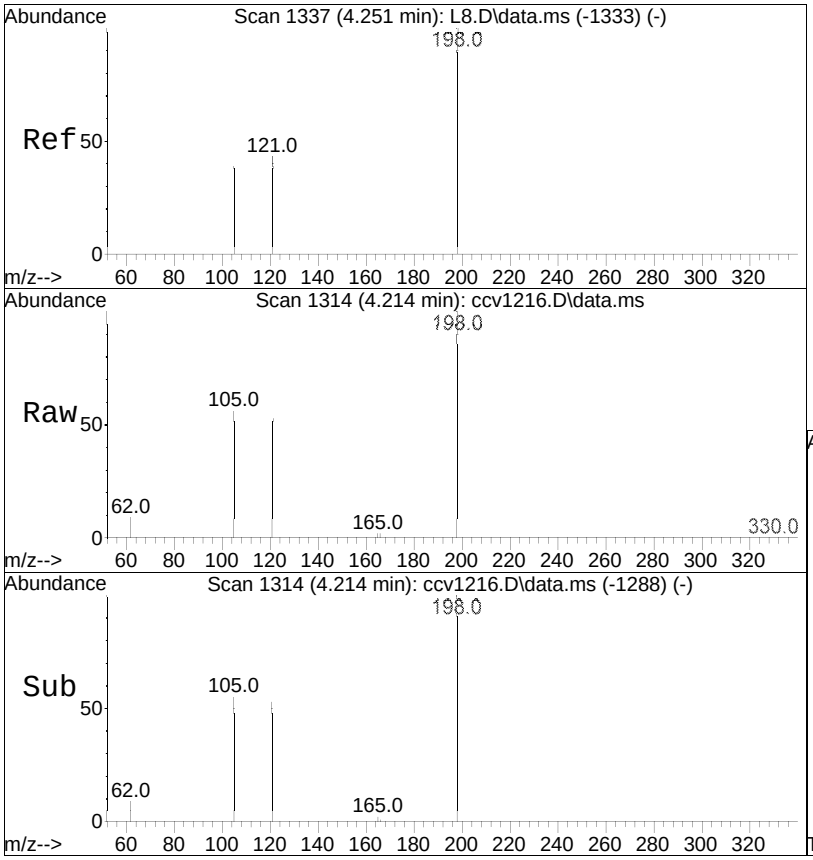


#20
Fluorene
Concen: 853.02 ng/ml
RT: 4.182 min Scan# 1306
Delta R.T. 0.000 min
Lab File: ccv1216.D
Acq: 16 Dec 2024 07:27 am

Tgt Ion:166 Resp: 191102

Ion	Ratio	Lower	Upper
166	100		
165	102.2	80.5	120.7

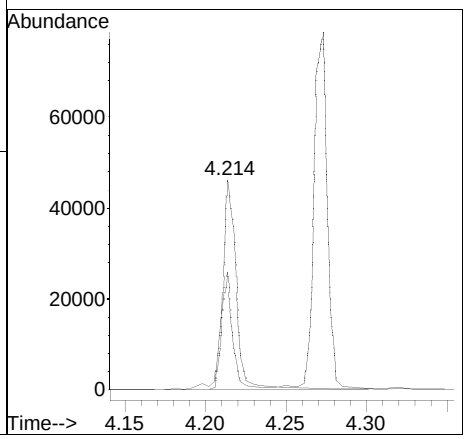


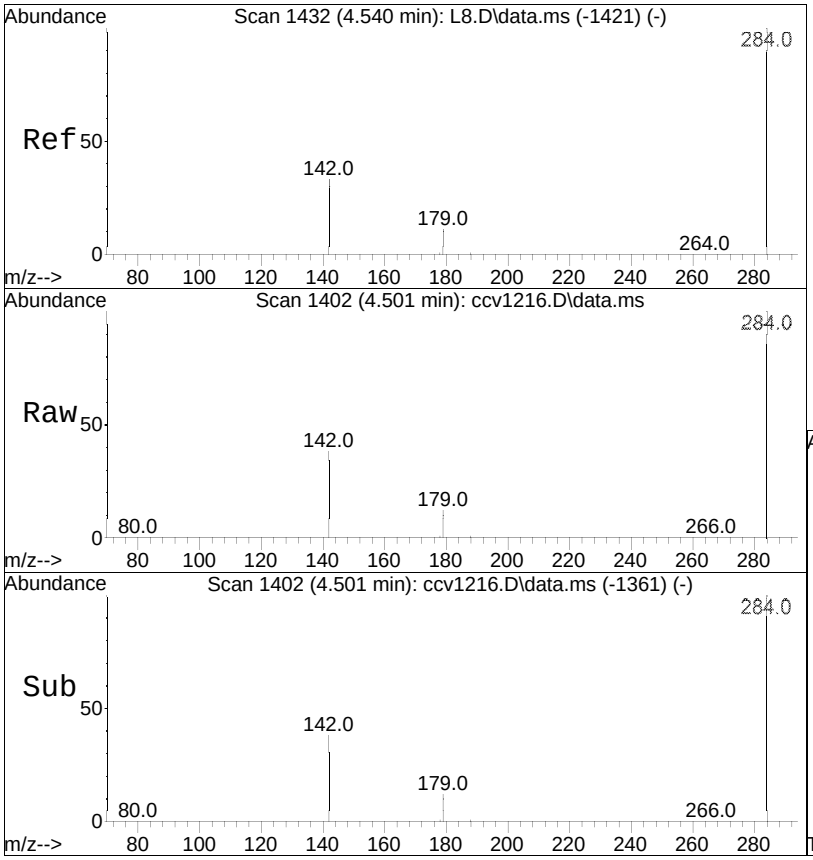


#23
4,6-Dinitro-o-cresol
Concen: 1568.41 ng/ml
RT: 4.214 min Scan# 1314
Delta R.T. 0.000 min
Lab File: ccv1216.D
Acq: 16 Dec 2024 07:27 am

Tgt Ion:198 Resp: 26073

Ion	Ratio	Lower	Upper
198	100		
105	52.4	31.8	47.6#

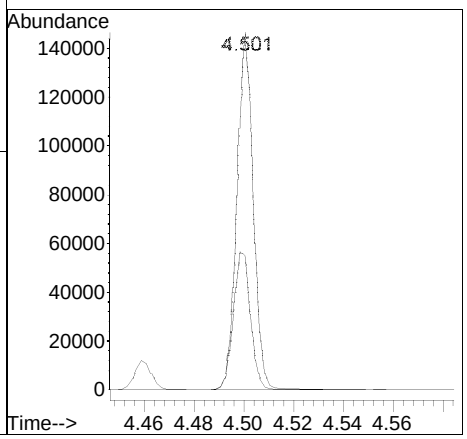


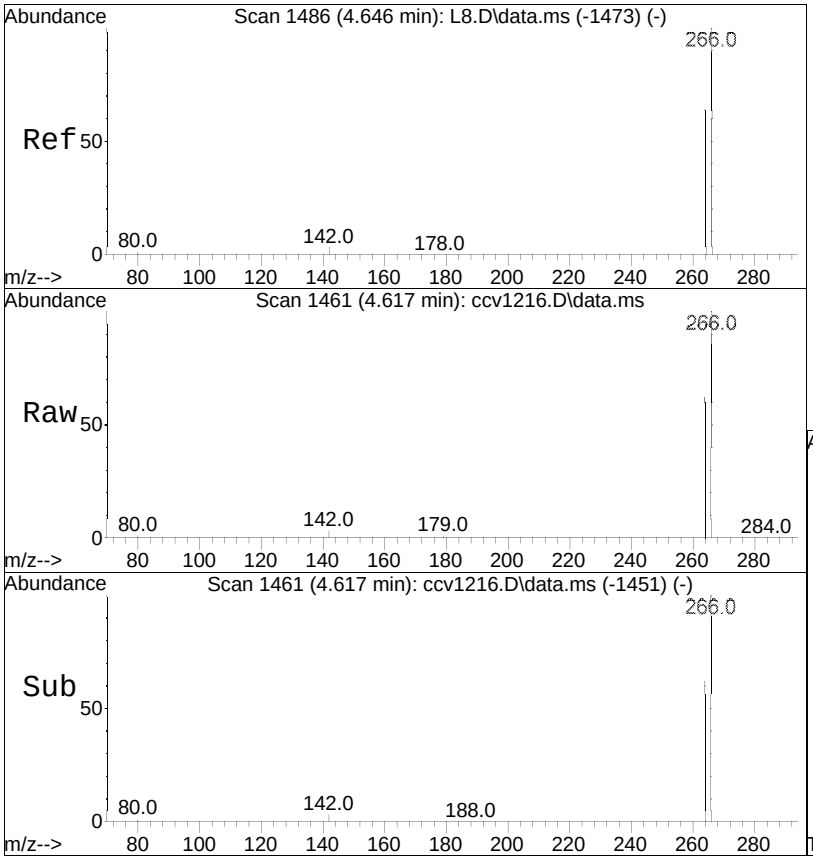


#24
Hexachlorobenzene
Concen: 765.46 ng/ml
RT: 4.501 min Scan# 1402
Delta R.T. 0.000 min
Lab File: ccv1216.D
Acq: 16 Dec 2024 07:27 am

Tgt Ion:284 Resp: 65798

Ion	Ratio	Lower	Upper
284	100		
142	40.5	28.4	42.6

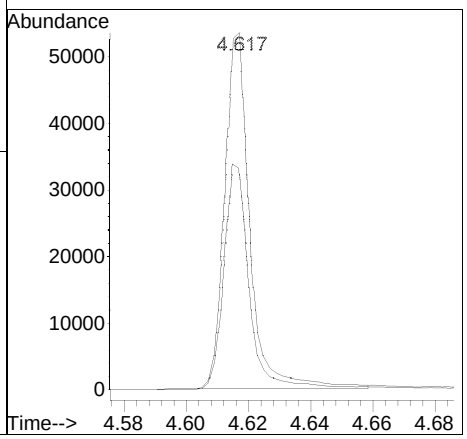


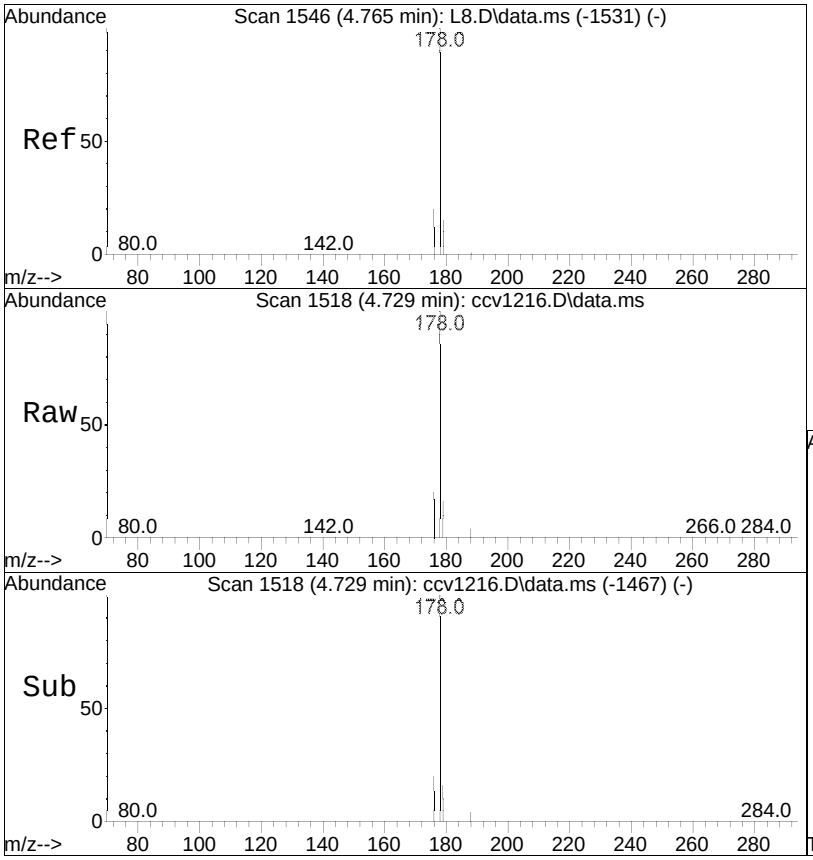


#25
Pentachlorophenol
Concen: 930.53 ng/ml
RT: 4.617 min Scan# 1461
Delta R.T. 0.000 min
Lab File: ccv1216.D
Acq: 16 Dec 2024 07:27 am

Tgt Ion:266 Resp: 29752

Ion	Ratio	Lower	Upper
266	100		
264	64.0	50.6	76.0

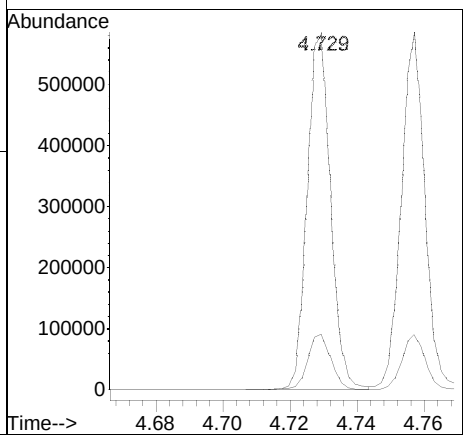


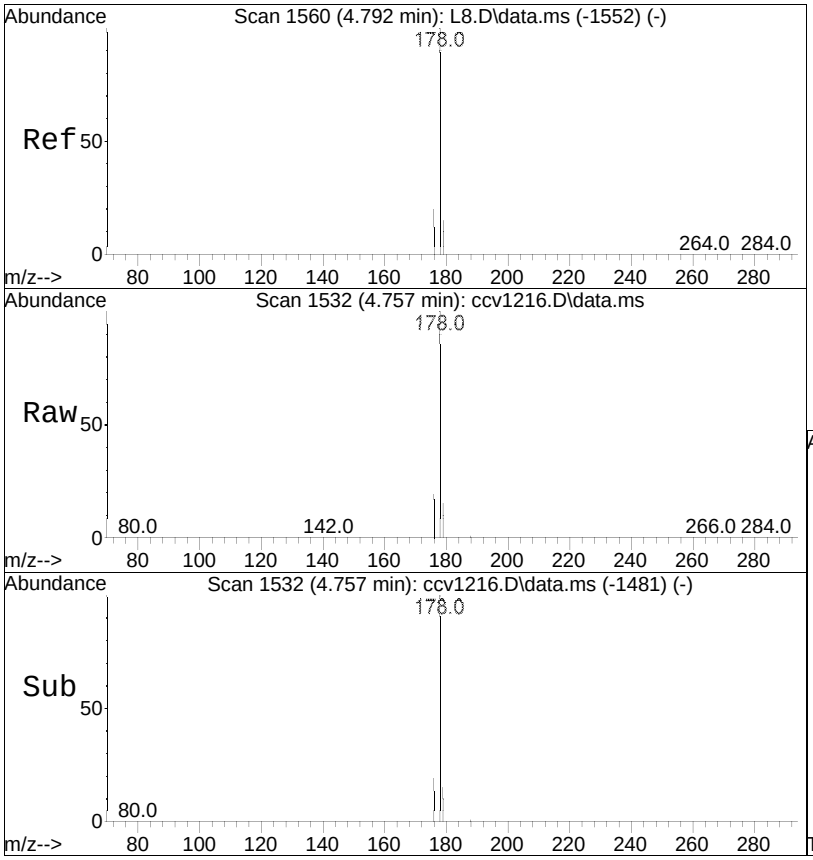


#26
Phenanthrene
Concen: 797.45 ng/ml
RT: 4.729 min Scan# 1518
Delta R.T. 0.000 min
Lab File: ccv1216.D
Acq: 16 Dec 2024 07:27 am

Tgt Ion:178 Resp: 282641

Ion	Ratio	Lower	Upper
178	100		
179	15.8	12.5	18.7

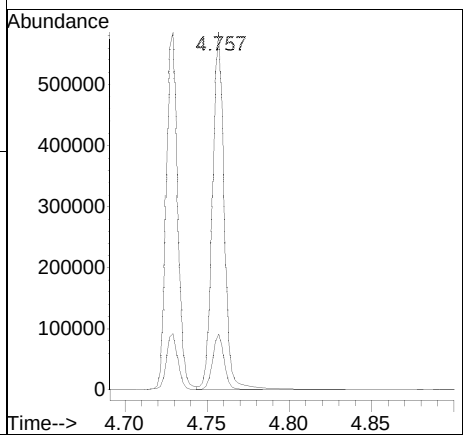


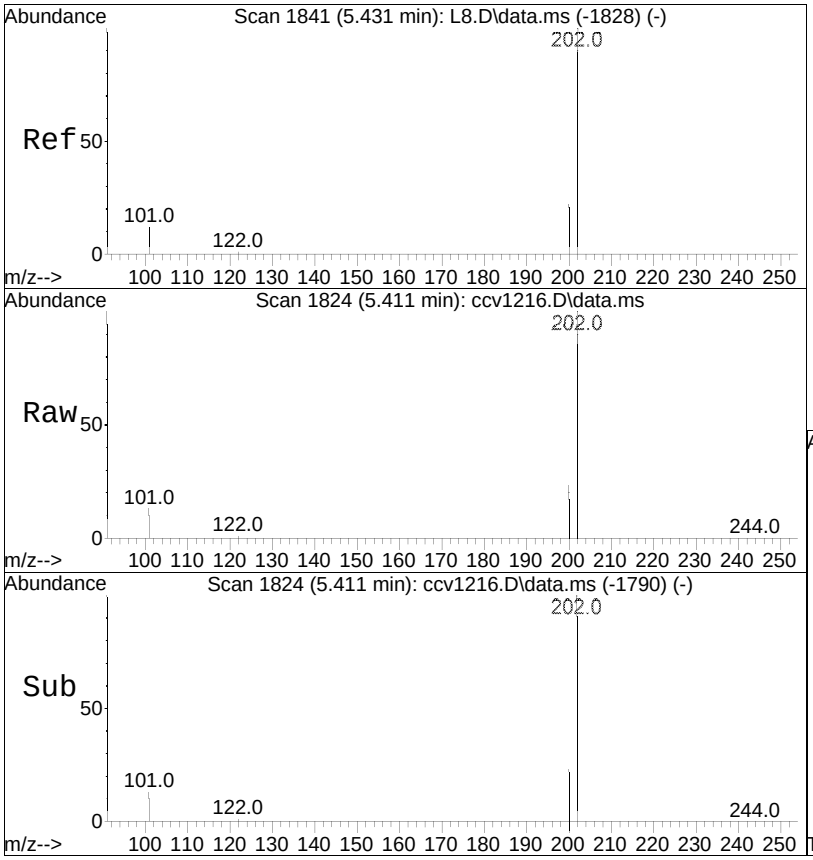


#27
Anthracene
Concen: 839.62 ng/ml
RT: 4.757 min Scan# 1532
Delta R.T. 0.000 min
Lab File: ccv1216.D
Acq: 16 Dec 2024 07:27 am

Tgt Ion:178 Resp: 292044

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.5	18.7

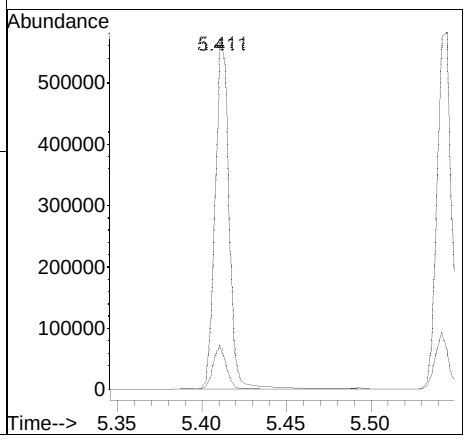


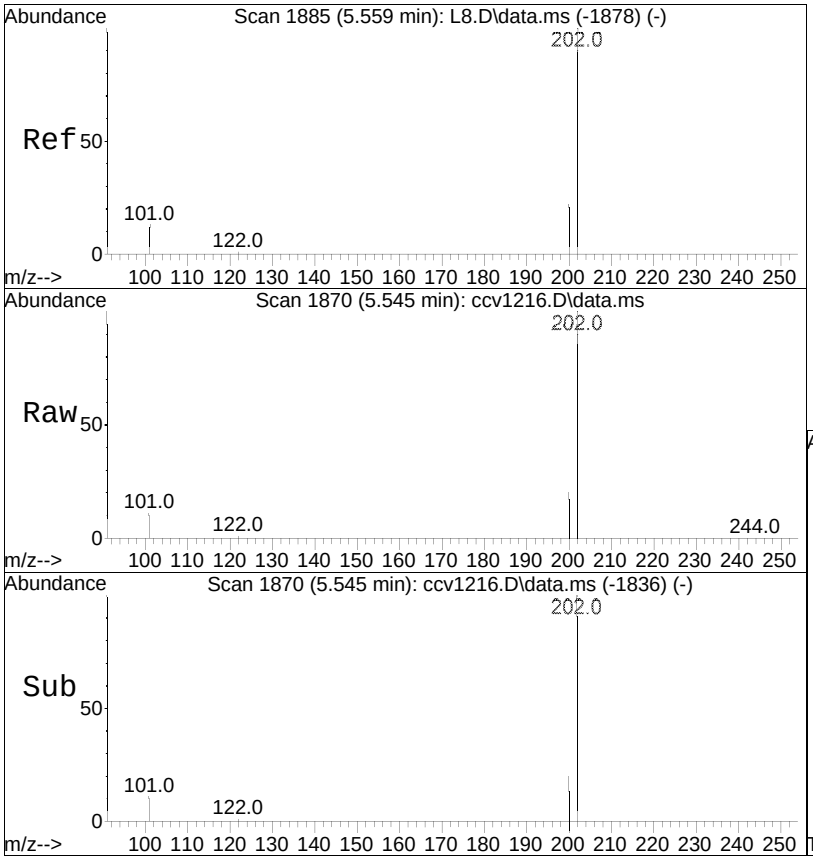


#28
Fluoranthene
Concen: 826.51 ng/ml
RT: 5.411 min Scan# 1824
Delta R.T. 0.000 min
Lab File: ccv1216.D
Acq: 16 Dec 2024 07:27 am

Tgt Ion:202 Resp: 327917

Ion	Ratio	Lower	Upper
202	100		
101	12.1	6.9	10.3#

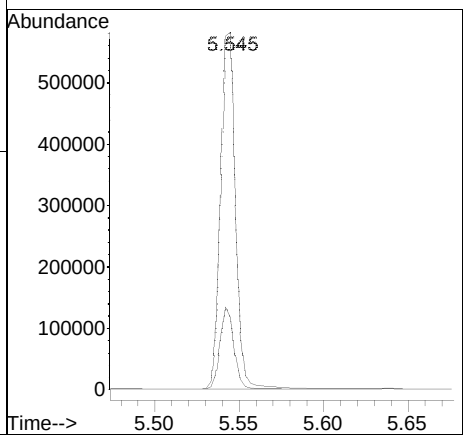


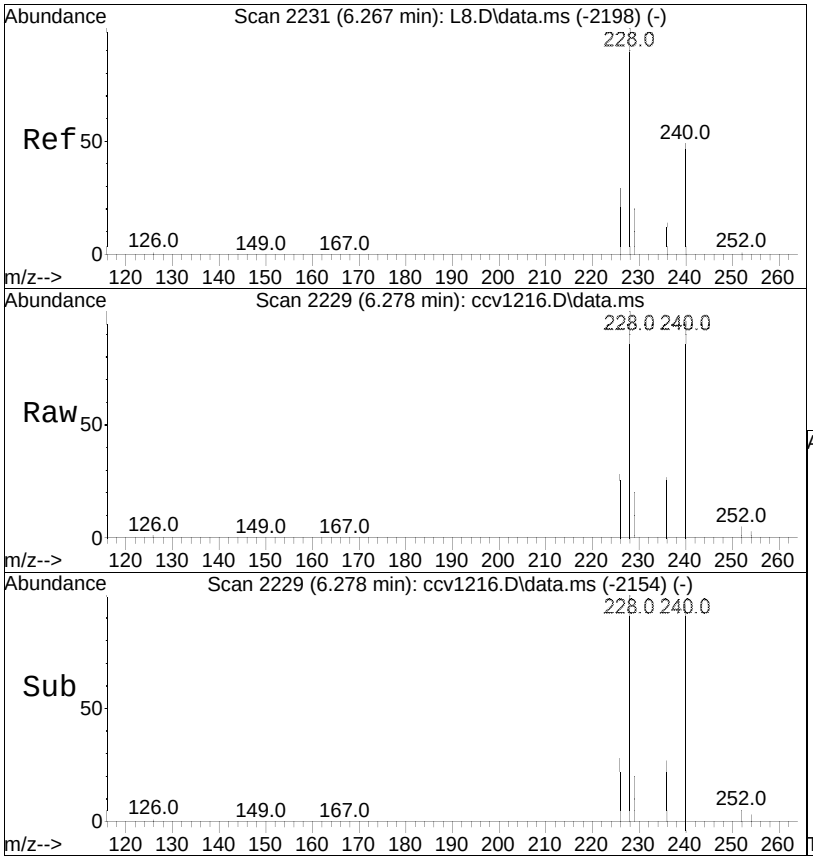


#29
Pyrene
Concen: 837.49 ng/ml
RT: 5.545 min Scan# 1870
Delta R.T. 0.000 min
Lab File: ccv1216.D
Acq: 16 Dec 2024 07:27 am

Tgt Ion:202 Resp: 352965

Ion	Ratio	Lower	Upper
202	100		
200	21.9	17.4	26.0

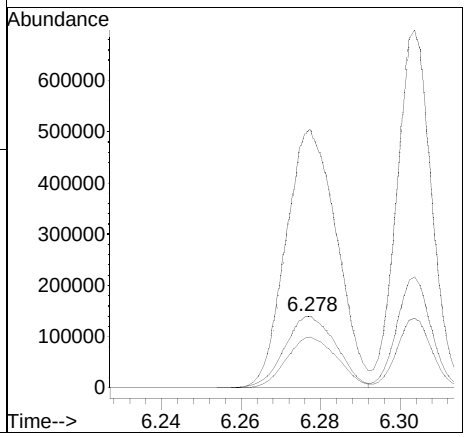


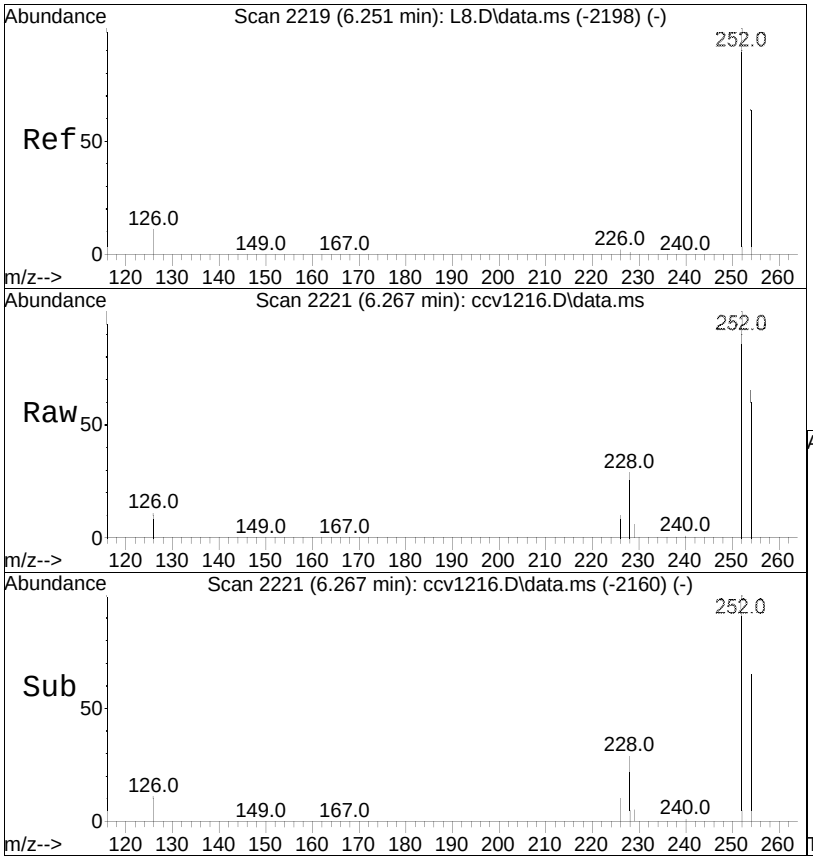


#32
Benzo[a]anthracene
Concen: 784.41 ng/ml
RT: 6.278 min Scan# 2229
Delta R.T. 0.000 min
Lab File: ccv1216.D
Acq: 16 Dec 2024 07:27 am

Tgt Ion:226 Resp: 126172

Ion	Ratio	Lower	Upper
226	100		
227	0.0	0.0	0.0
228	353.1	284.1	426.1
229	69.6	56.6	85.0

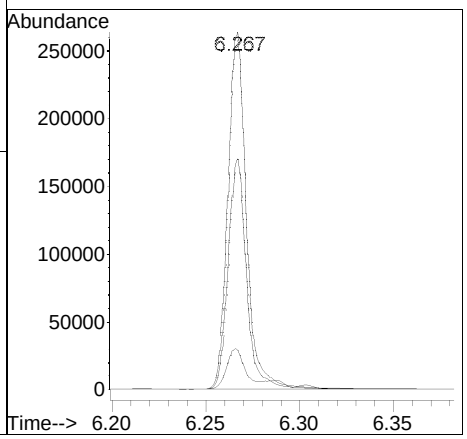


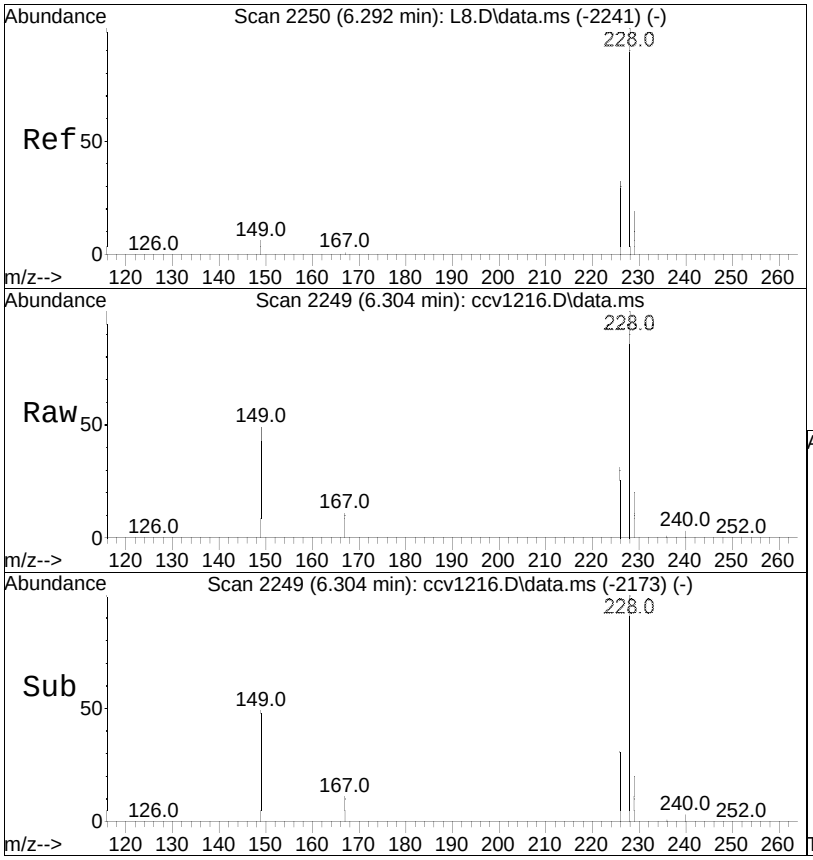


#33
3,3'-Dichlorobenzidine
Concen: 1038.33 ng/ml
RT: 6.267 min Scan# 2221
Delta R.T. 0.000 min
Lab File: ccv1216.D
Acq: 16 Dec 2024 07:27 am

Tgt Ion:252 Resp: 178031

Ion	Ratio	Lower	Upper
252	100		
126	11.7	11.3	16.9
254	64.3	51.4	77.0

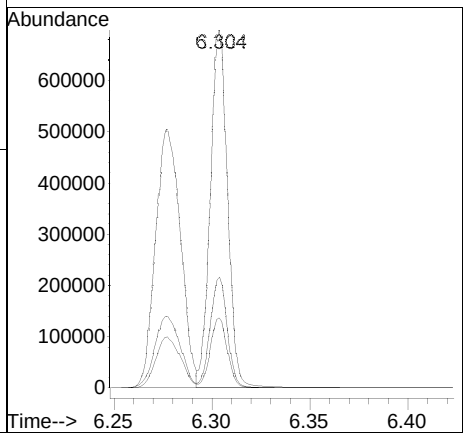


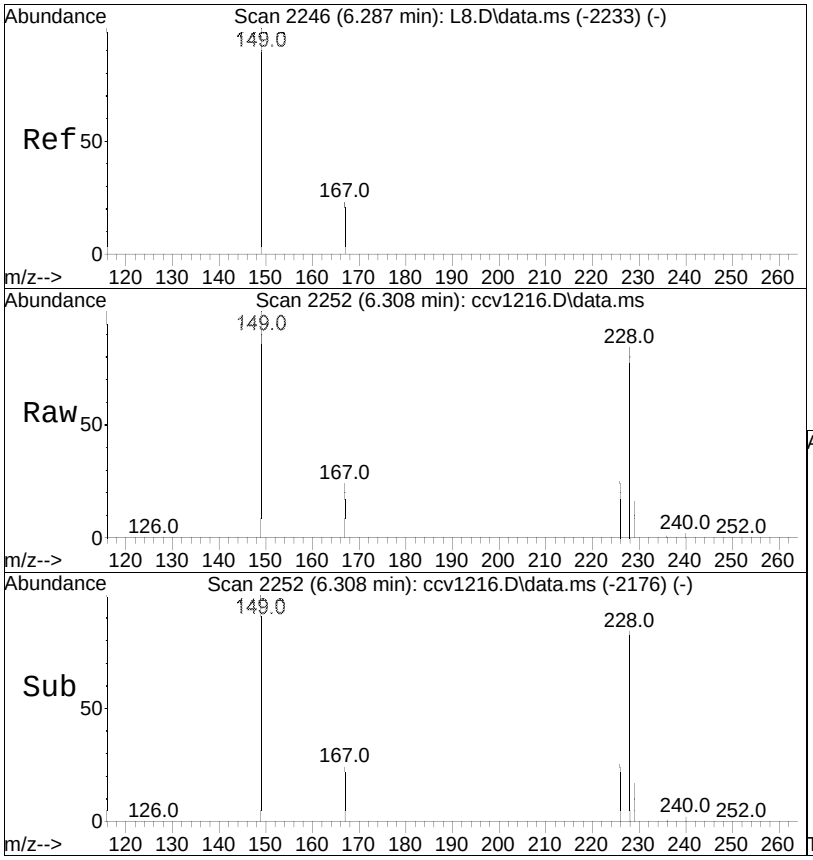


#34
Chrysene
Concen: 861.36 ng/ml
RT: 6.304 min Scan# 2249
Delta R.T. 0.000 min
Lab File: ccv1216.D
Acq: 16 Dec 2024 07:27 am

Tgt Ion:228 Resp: 426770

Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.6	36.8
227	0.0	0.0	0.0
229	19.3	15.4	23.2

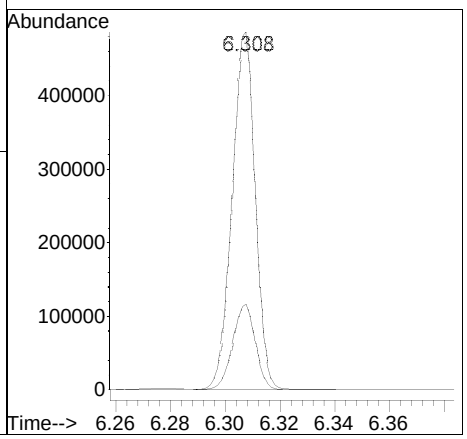


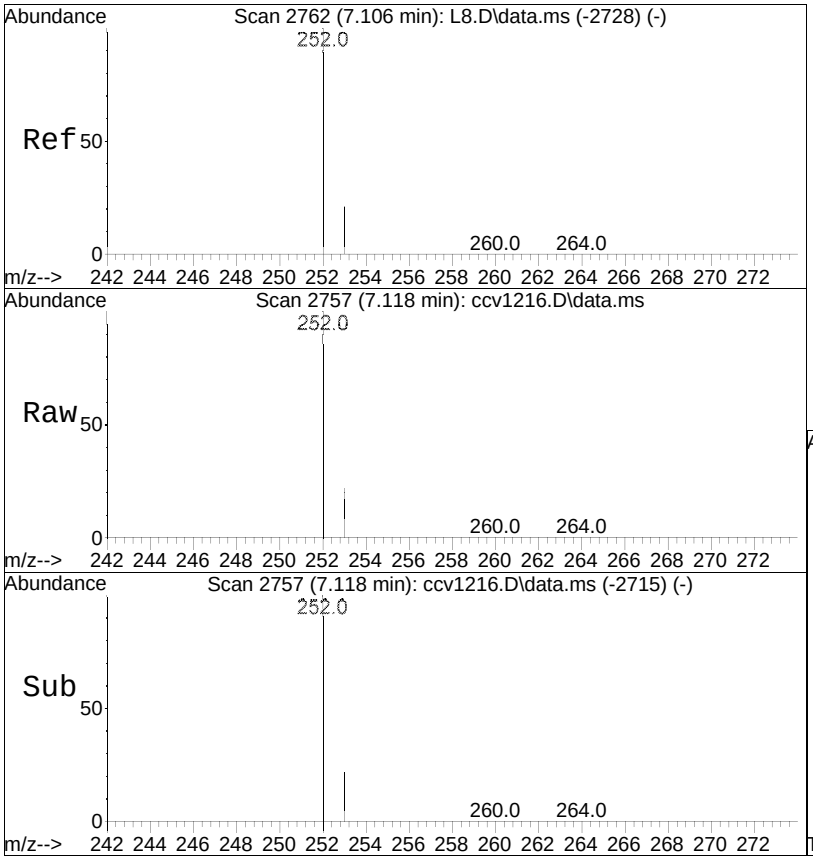


#35
Bis(2-ethylhexyl)phthalate
Concen: 984.14 ng/ml
RT: 6.308 min Scan# 2252
Delta R.T. 0.000 min
Lab File: ccv1216.D
Acq: 16 Dec 2024 07:27 am

Tgt Ion:149 Resp: 281184

Ion	Ratio	Lower	Upper
149	100		
167	23.6	20.6	31.0

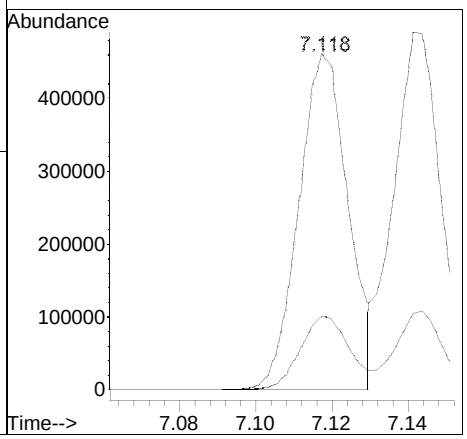


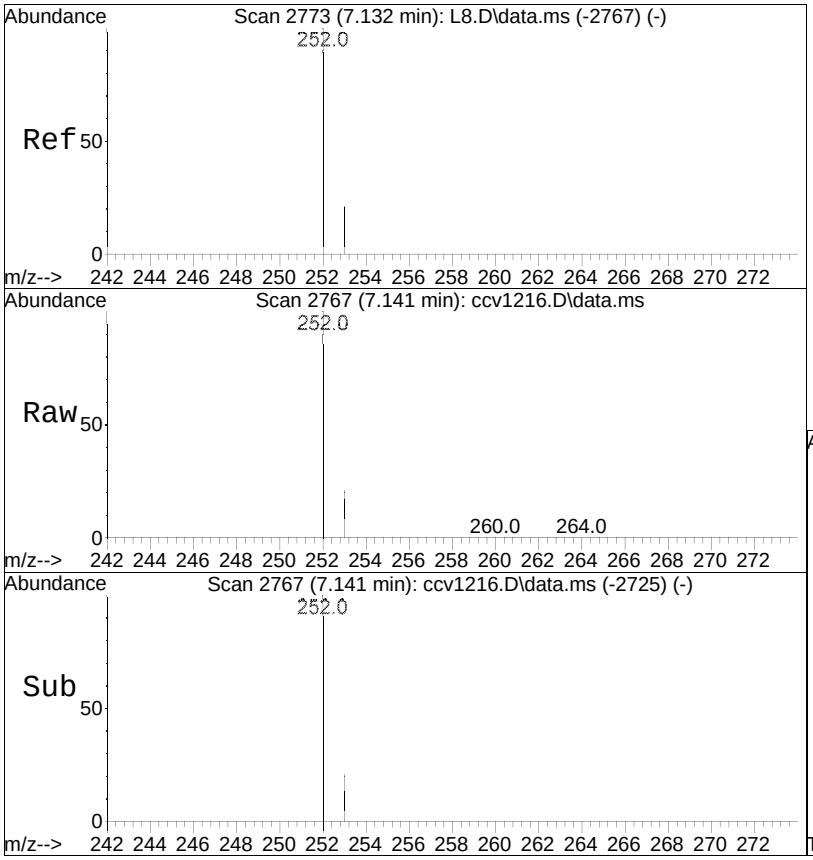


#37
Benzo[b]fluoranthene
Concen: 958.94 ng/ml
RT: 7.118 min Scan# 2757
Delta R.T. 0.000 min
Lab File: ccv1216.D
Acq: 16 Dec 2024 07:27 am

Tgt Ion:252 Resp: 414619

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.6	26.4

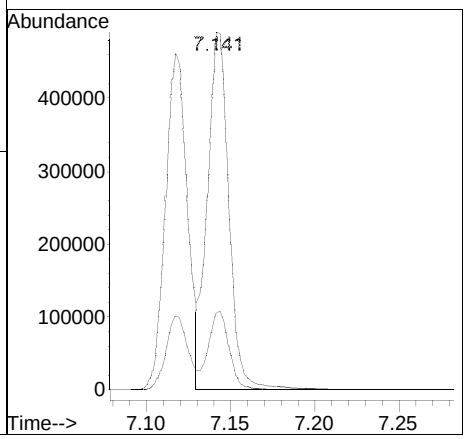


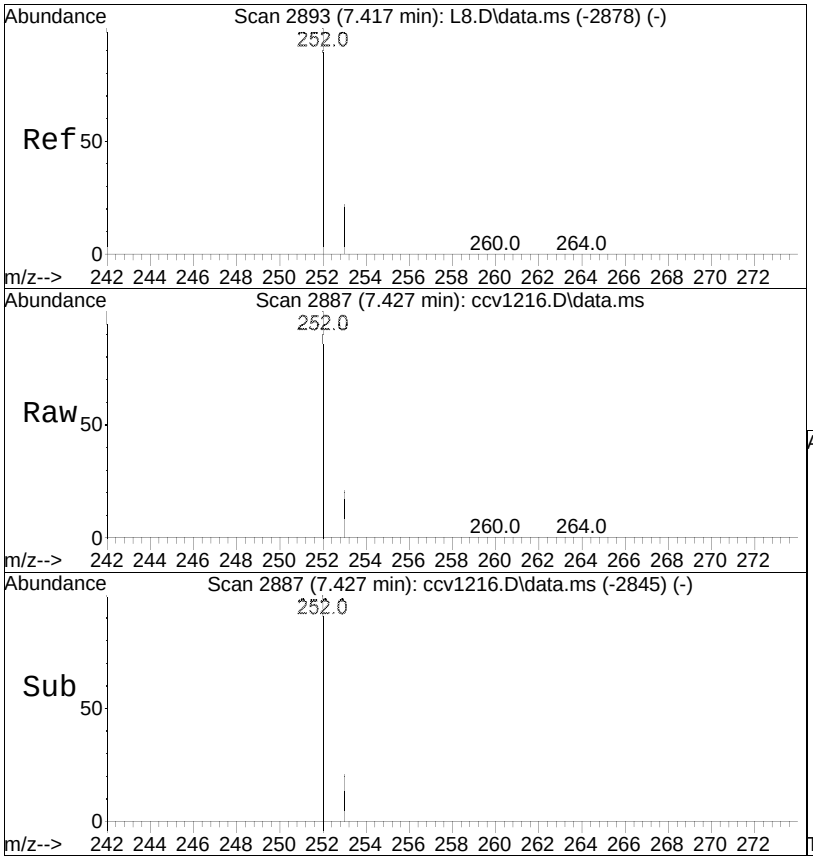


#38
Benzo[k]fluoranthene
Concen: 947.24 ng/ml
RT: 7.141 min Scan# 2767
Delta R.T. 0.000 min
Lab File: ccv1216.D
Acq: 16 Dec 2024 07:27 am

Tgt Ion:252 Resp: 434240

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.6	26.4

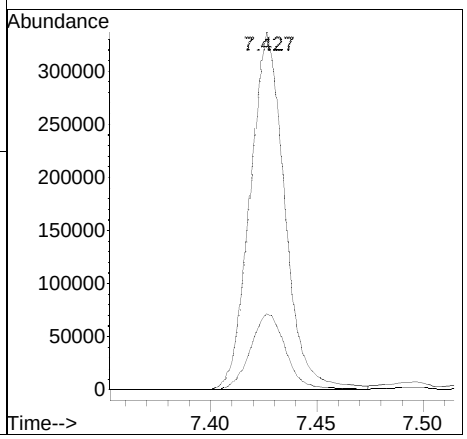


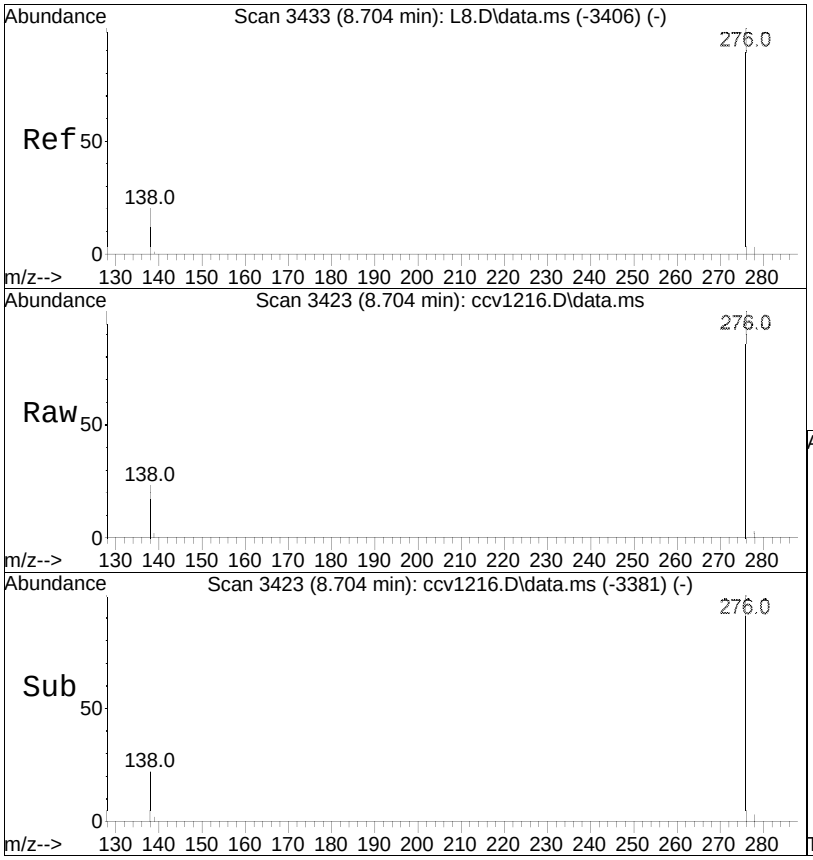


#39
Benzo[a]pyrene
Concen: 986.36 ng/ml
RT: 7.427 min Scan# 2887
Delta R.T. 0.000 min
Lab File: ccv1216.D
Acq: 16 Dec 2024 07:27 am

Tgt Ion:252 Resp: 376776

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.5	26.3

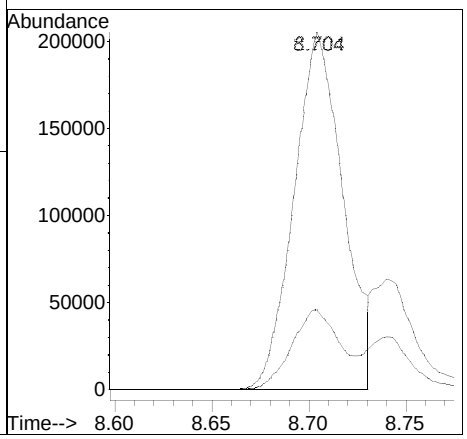


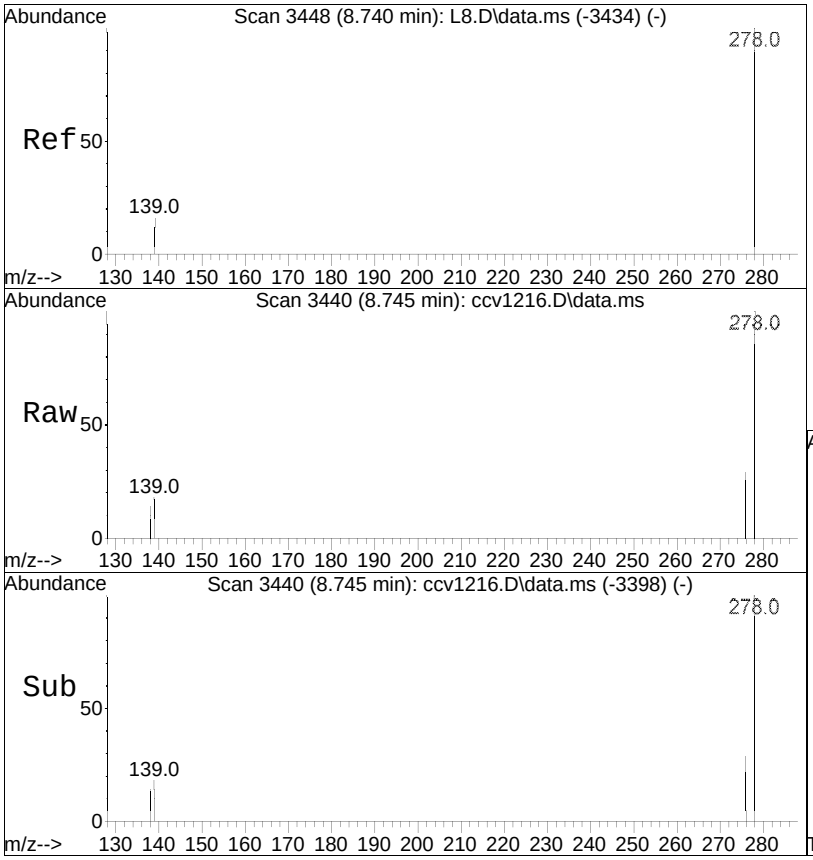


#40
Indeno[1,2,3-cd]pyrene
Concen: 1005.30 ng/ml
RT: 8.704 min Scan# 3423
Delta R.T. 0.000 min
Lab File: ccv1216.D
Acq: 16 Dec 2024 07:27 am

Tgt Ion:276 Resp: 358006

Ion	Ratio	Lower	Upper
276	100		
138	21.7	11.8	17.6#

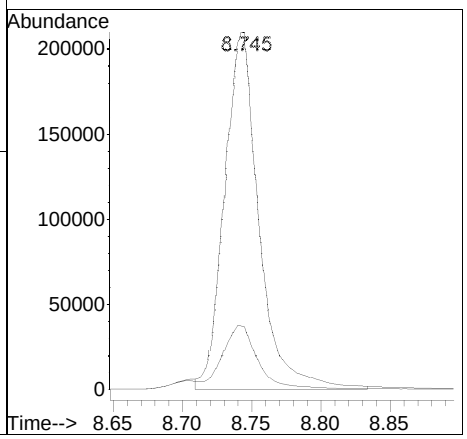


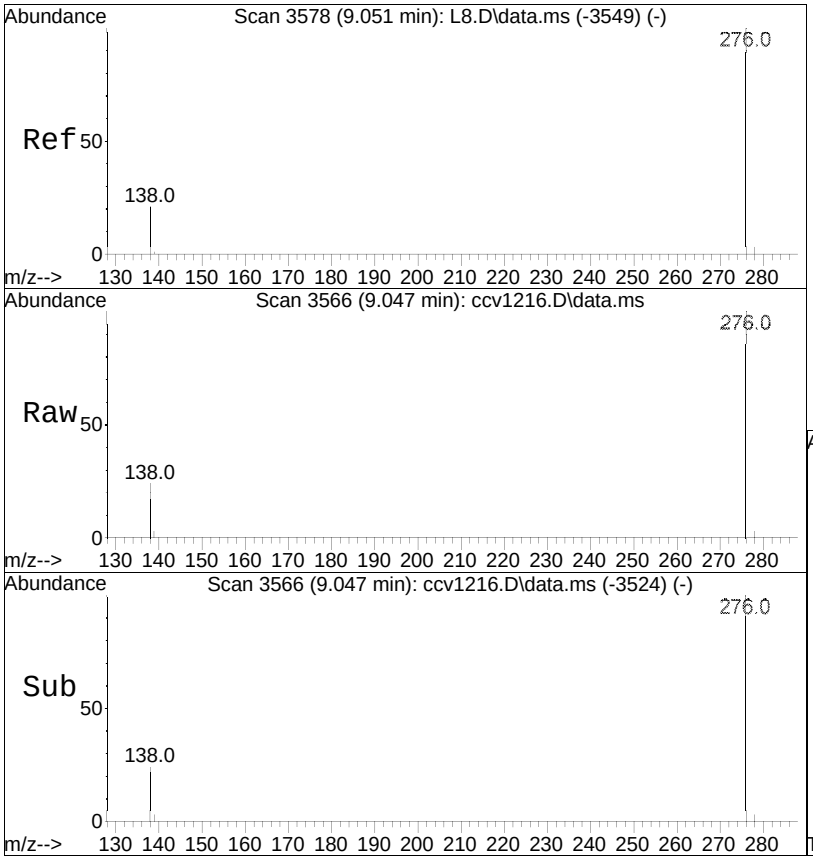


#41
Dibenzo[a,h]anthracene
Concen: 998.10 ng/ml M6
RT: 8.745 min Scan# 3440
Delta R.T. 0.000 min
Lab File: ccv1216.D
Acq: 16 Dec 2024 07:27 am

Tgt Ion:278 Resp: 361824

Ion	Ratio	Lower	Upper
278	100		
139	18.0	9.8	14.8#

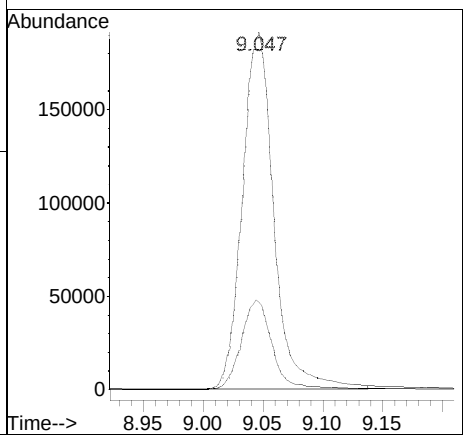




#42
Benzo[g,h,i]perylene
Concen: 926.99 ng/ml
RT: 9.047 min Scan# 3566
Delta R.T. 0.000 min
Lab File: ccv1216.D
Acq: 16 Dec 2024 07:27 am

Tgt Ion:276 Resp: 346057

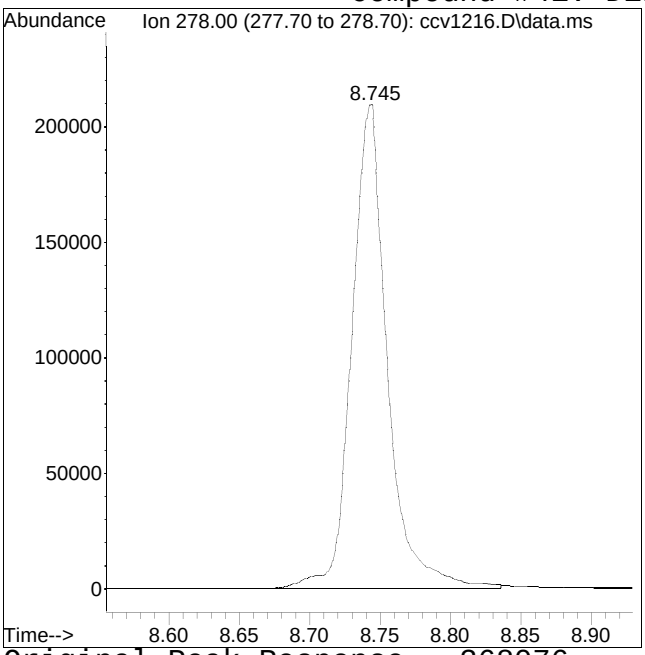
Ion	Ratio	Lower	Upper
276	100		
138	24.8	12.8	19.2#



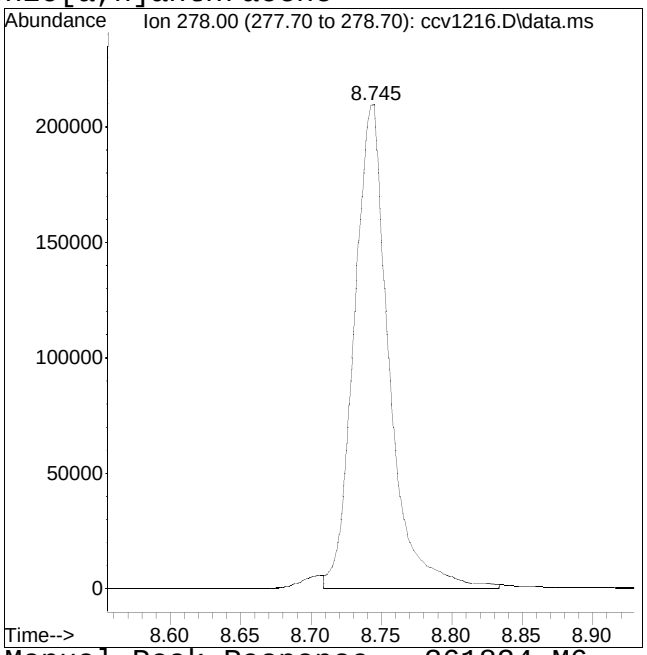
Manual Integration Report

Data Path : I:\8270SIM\SV118\241216RVTQ
Data File : ccv1216.D
Date Inj'd : 12/16/2024 7:27 am
Sample : wg2009609-3,32,,ICV 10884
Method : SIM-RVT_241025sv118.M
Operator : SV118:kmh
Instrument : SV118
Quant Date : 12/16/2024 7:49 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 368076



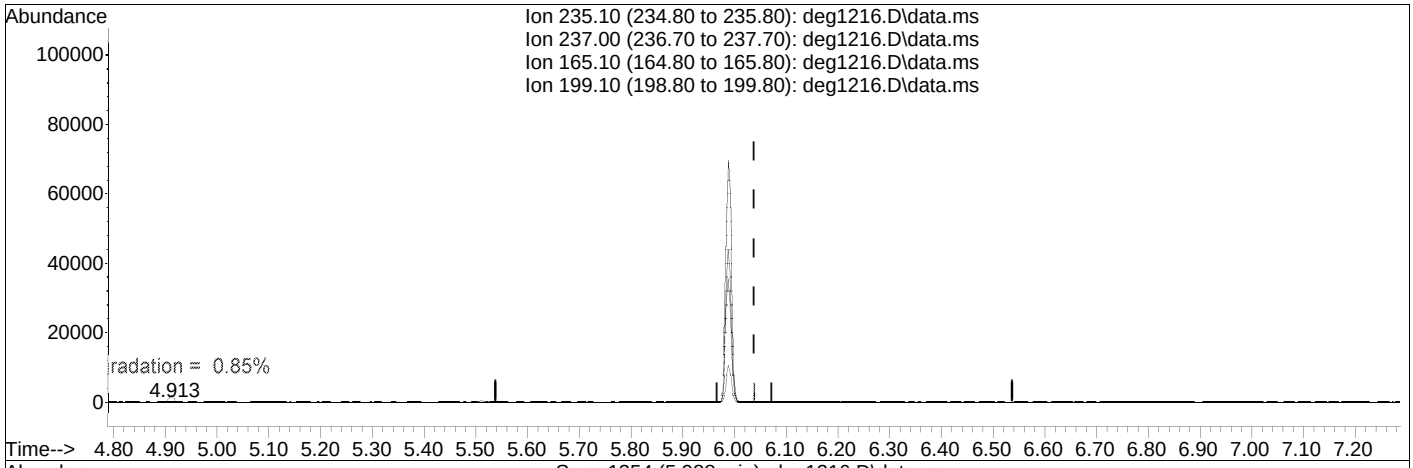
Manual Peak Response = 361824 M6

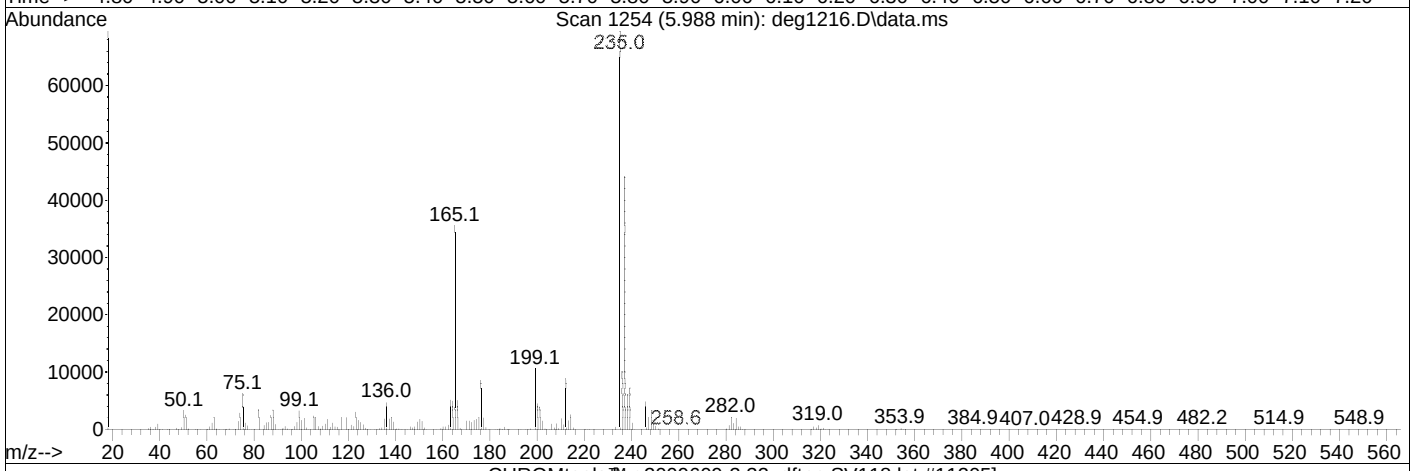
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : deg1216.D
Acq On : 16 Dec 2024 06:59 am
Operator : SV118:kmh
Sample : wg2009609-2,32,,dftpp SV118 lot #11205
Misc : wg2009609,,ical21646
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 16 07:22:31 2024
Quant Method : I:\8270SIM\SV118\241216RVT\dftppsv118.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 21 14:32:10 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools [wg2009609-2,32,,dftpp SV118 lot #11205]

(6) ddt (T)

5.988min (-0.050) 8.24

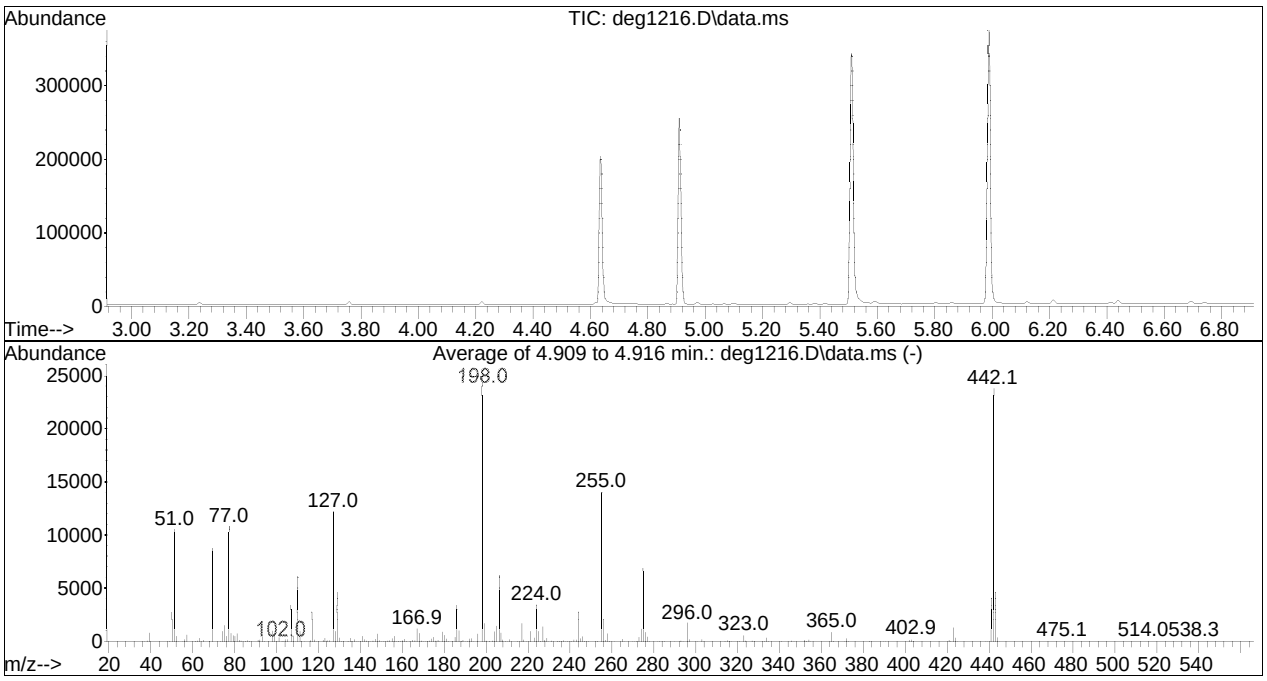
response 50202

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	63.34
165.10	53.30	51.33
199.10	17.10	14.98

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : deg1216.D
Acq On : 16 Dec 2024 06:59 am
Operator : SV118:kmh
Sample : wg2009609-1,32,,dftpp SV118 lot #11205
Misc : wg2009609,,ical21646
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\SV118\241216RVT\SIM-RVT_241025sv118.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Dec 16 07:49:41 2024



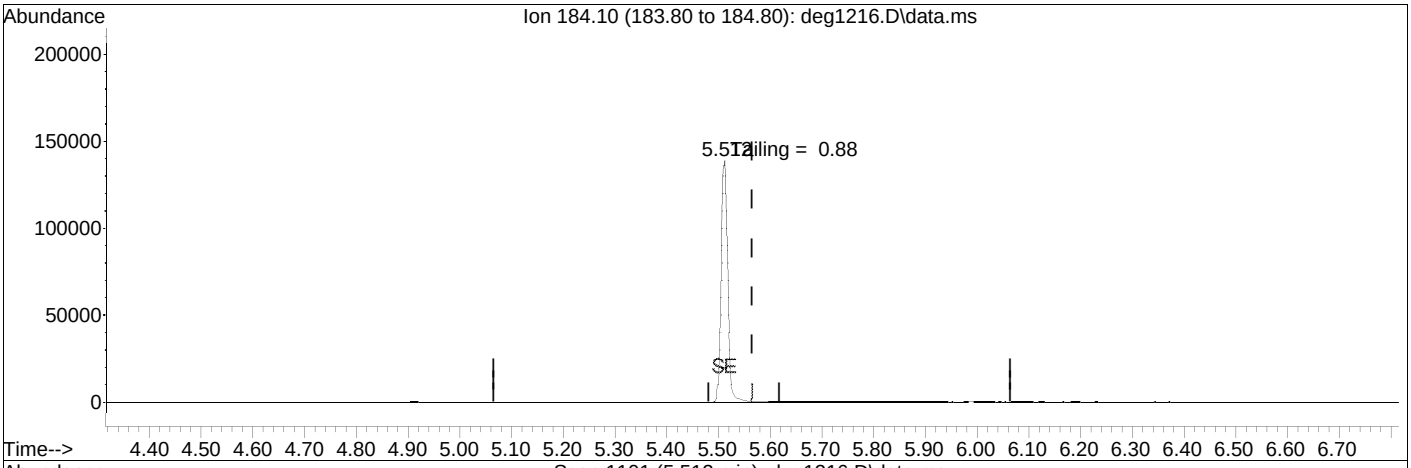
Spectrum Information: Average of 4.909 to 4.916 min.

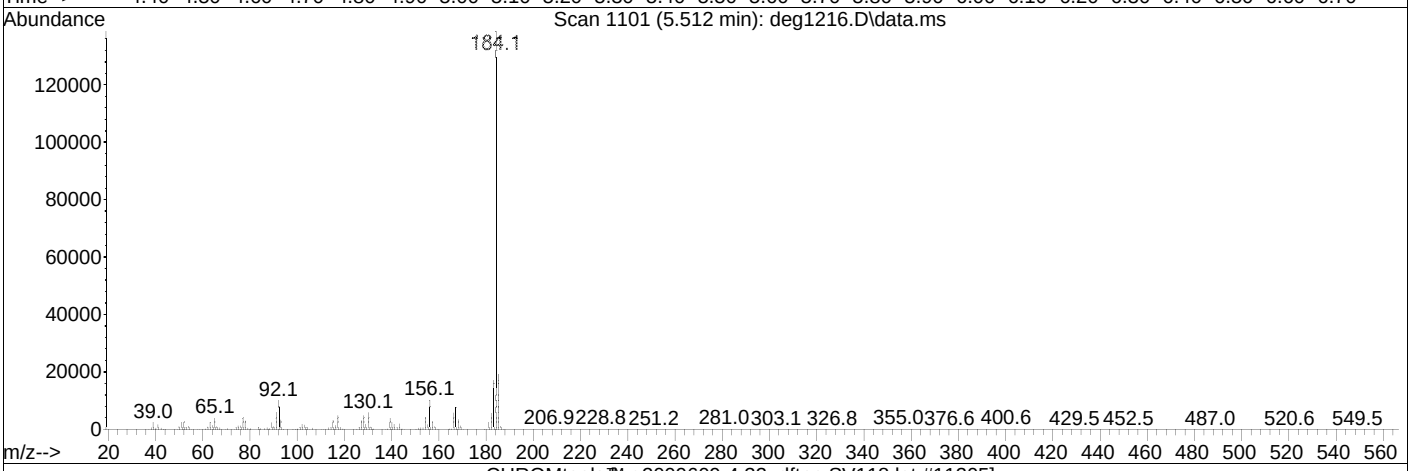
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	42.4	10522	PASS
68	69	0.00	2	0.9	81	PASS
69	69	100	100	100.0	8689	PASS
70	69	0.00	2	0.2	18	PASS
127	198	10	80	49.0	12162	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	24802	PASS
199	198	5	9	6.6	1643	PASS
275	198	10	60	27.6	6839	PASS
365	198	1	100	3.5	867	PASS
441	442	0.01	24	17.3	4105	PASS
442	198	50	100	95.9	23782	PASS
443	442	15	24	19.3	4591	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : deg1216.D
Acq On : 16 Dec 2024 06:59 am
Operator : SV118:kmh
Sample : wg2009609-4,32,,dftpp SV118 lot #11205
Misc : wg2009609,,ical21646
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 16 07:22:31 2024
Quant Method : I:\8270SIM\SV118\241216RVT\dftppsv118.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 21 14:32:10 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools [wg2009609-4,32,,dftpp SV118 lot #11205]

(3) benzidine (T)

5.512min (-0.053) 11.18

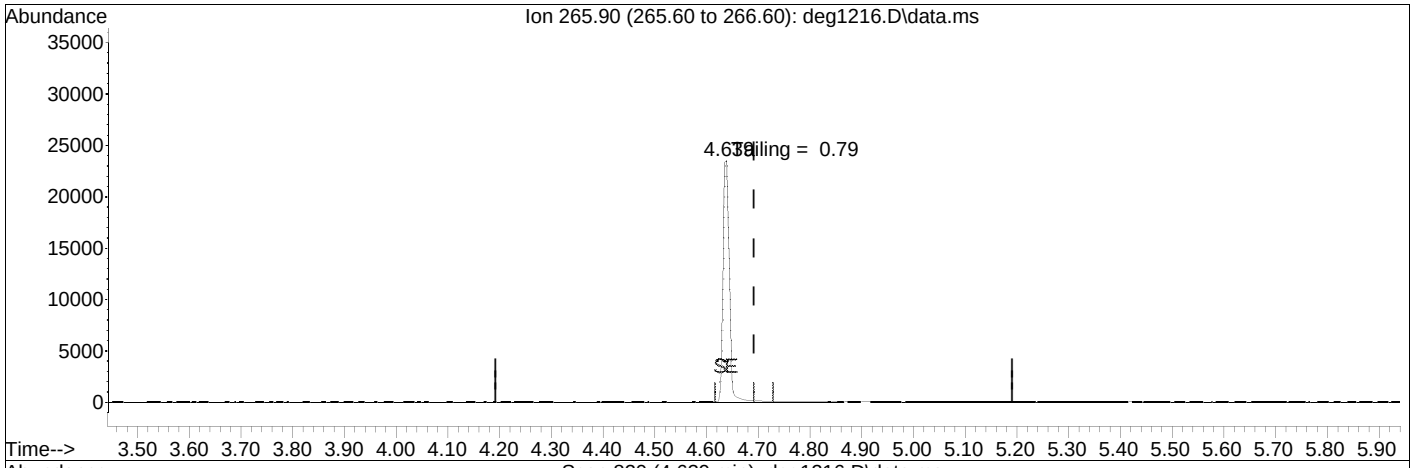
response 113816

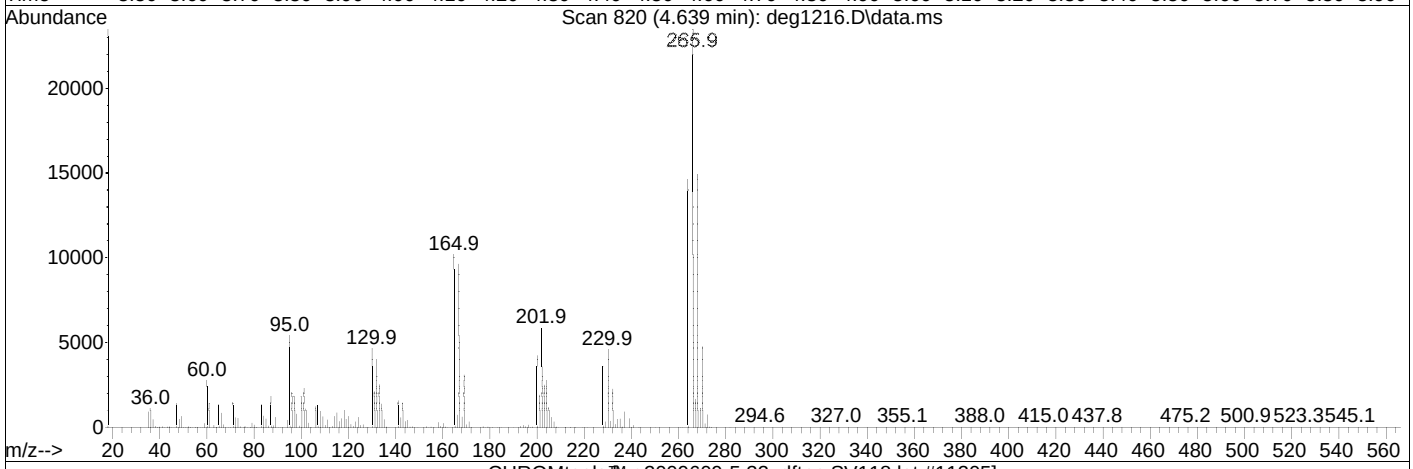
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : deg1216.D
Acq On : 16 Dec 2024 06:59 am
Operator : SV118:kmh
Sample : wg2009609-5,32,,dftpp SV118 lot #11205
Misc : wg2009609,,ical21646
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 16 07:22:31 2024
Quant Method : I:\8270SIM\SV118\241216RVT\dftppsv118.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 21 14:32:10 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools [wg2009609-5,32,,dftpp SV118 lot #11205]

(1) pentachlorophenol (T)

4.639min (-0.053) 8.84

response 18557

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\SV118\241216RVT\
Data File : 009401-1.D
Acq On : 16 Dec 2024 08:10 am
Operator : SV118:dv
Sample : WG2009401-1,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 17 13:05:18 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\241216RVT\ccv1216.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	2.224	152	276499	4000.000	ng/ml		0.00
Standard Area 1 = 337319			Recovery = 81.97%				
8) Naphthalene-d8	2.893	136	1155399	4000.000	ng/ml		0.00
Standard Area 1 = 1155411			Recovery = 100.00%				
17) Acenaphthene-d10	3.875	164	636469	4000.000	ng/ml		0.00
Standard Area 1 = 643247			Recovery = 98.95%				
22) Phenanthrene-d10	4.716	188	1275053	4000.000	ng/ml	#	0.00
Standard Area 1 = 1305613			Recovery = 97.66%				
31) Chrysene-d12	6.264	240	1299866	4000.000	ng/ml		-0.02
Standard Area 1 = 1642453			Recovery = 79.14%				
36) Perylene-d12	7.467	264	1300526	4000.000	ng/ml		-0.03
Standard Area 1 = 1677056			Recovery = 77.55%				
System Monitoring Compounds							
2) 2-Fluorophenol	1.637	112	83551	1068.772	ng/ml		0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 53.44%				
3) Phenol-d6	2.040	99	63709	663.214	ng/ml		0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 33.16%				
7) Nitrobenzene-d5	2.506	82	58451	942.478	ng/ml		0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 94.25%				
13) 2-Fluorobiphenyl	3.494	172	174036	783.389	ng/ml		0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 78.34%				
21) 2,4,6-Tribromophenol	4.321	330	55258	1884.143	ng/ml		0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 94.21%				
30) 4-Terphenyl-d14	5.629	244	247938	950.373	ng/ml		0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 95.04%				

Target Compounds			Qvalue
4) Bis(2-chloroethyl)ether	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
14) 2-Chloronaphthalene	0.000	0	N.D. d
16) Acenaphthylene	0.000	0	N.D. d
18) Acenaphthene	0.000	0	N.D. d
20) Fluorene	0.000	0	N.D. d
24) Hexachlorobenzene	0.000	0	N.D. d

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 009401-1.D
Acq On : 16 Dec 2024 08:10 am
Operator : SV118:dv
Sample : WG2009401-1,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 17 13:05:18 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\241216RVT\ccv1216.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

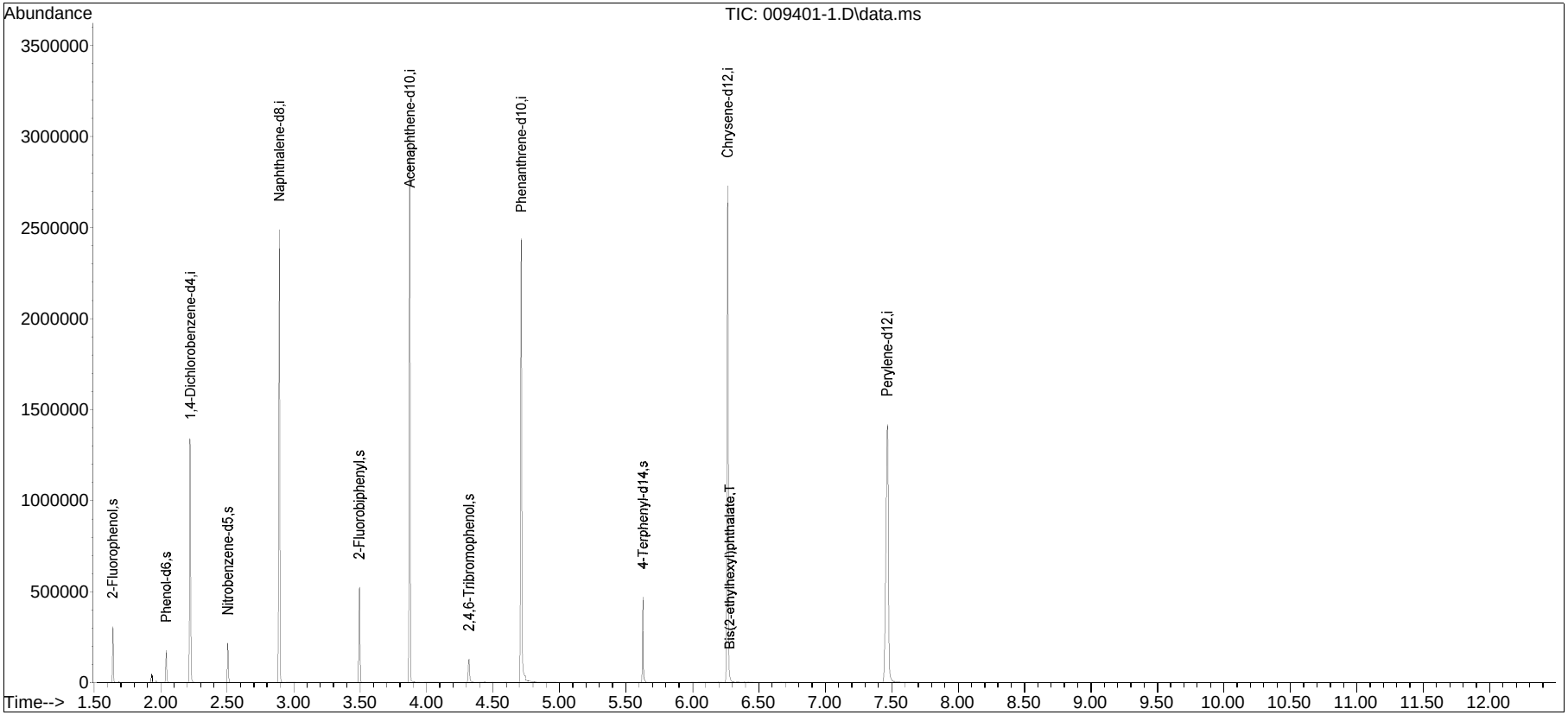
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 009401-1.D
Acq On : 16 Dec 2024 08:10 am
Operator : SV118:dv
Sample : WG2009401-1,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 17 13:05:18 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv1216.D•



Manual Integration Report

Data Path	: I:\8270SIM\SV118\241216RVTQ	Method	: SIM-RVT_241025sv118.M
Data File	: 009401-1.D	Operator	: SV118:dv
Date Inj'd	: 12/16/2024 8:10 am	Instrument	: SV118
Sample	: WG2009401-1,32,,kmh	Quant Date	: 12/16/2024 8:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 009401-2.D
Acq On : 16 Dec 2024 08:27 am
Operator : SV118:dv
Sample : WG2009401-2,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 17 13:06:03 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\241216RVT\ccv1216.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	2.224	152	273652	4000.000	ng/ml		0.00
Standard Area 1 = 337319			Recovery = 81.13%				
8) Naphthalene-d8	2.893	136	1207019	4000.000	ng/ml		0.00
Standard Area 1 = 1155411			Recovery = 104.47%				
17) Acenaphthene-d10	3.876	164	678405	4000.000	ng/ml		0.00
Standard Area 1 = 643247			Recovery = 105.47%				
22) Phenanthrene-d10	4.715	188	1374016	4000.000	ng/ml	#	0.00
Standard Area 1 = 1305613			Recovery = 105.24%				
31) Chrysene-d12	6.259	240	1287944	4000.000	ng/ml		-0.03
Standard Area 1 = 1642453			Recovery = 78.42%				
36) Perylene-d12	7.465	264	1287094	4000.000	ng/ml		-0.03
Standard Area 1 = 1677056			Recovery = 76.75%				
System Monitoring Compounds							
2) 2-Fluorophenol	1.642	112	80340	1038.389	ng/ml		0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 51.92%				
3) Phenol-d6	2.040	99	68373	719.171	ng/ml		0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 35.96%				
7) Nitrobenzene-d5	2.506	82	53301	868.379	ng/ml		0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 86.84%				
13) 2-Fluorobiphenyl	3.494	172	155699	670.876	ng/ml		0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 67.09%				
21) 2,4,6-Tribromophenol	4.320	330	59977	1918.632	ng/ml		0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 95.93%				
30) 4-Terphenyl-d14	5.628	244	219926	782.283	ng/ml		0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 78.23%				
Target Compounds							Qvalue
4) Bis(2-chloroethyl)ether	2.084	93	101055	1247.056	ng/ml		95
6) Hexachloroethane	2.482	117	39743	1157.560	ng/ml		86
9) Naphthalene	2.905	128	366071	1152.127	ng/ml		100
10) Hexachlorobutadiene	2.975	225	64521	1144.108	ng/ml		99
11) 2-Methylnaphthalene	3.286	142	262442	1289.547	ng/ml		99
14) 2-Chloronaphthalene	3.558	162	264714	1295.967	ng/ml	#	80
16) Acenaphthylene	3.794	152	415550	1374.267	ng/ml		99
18) Acenaphthene	3.893	153	290111	1308.126	ng/ml		100
20) Fluorene	4.182	166	337769	1429.554	ng/ml		99
24) Hexachlorobenzene	4.500	284	122949	1359.116	ng/ml		98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 009401-2.D
Acq On : 16 Dec 2024 08:27 am
Operator : SV118:dv
Sample : WG2009401-2,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 17 13:06:03 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\241216RVT\ccv1216.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	4.615	266	65132	1935.665	ng/ml	100
26) Phenanthrene	4.729	178	528374	1416.546	ng/ml	100
27) Anthracene	4.757	178	551731	1507.240	ng/ml	100
28) Fluoranthene	5.407	202	640801	1534.724	ng/ml#	92
29) Pyrene	5.535	202	669135	1508.635	ng/ml	99
32) Benzo[a]anthracene	6.250	226	179711	1424.794	ng/ml#	98
34) Chrysene	6.275	228	599660	1543.439	ng/ml#	100
37) Benzo[b]fluoranthene	7.084	252	593340	1788.069	ng/ml	100
38) Benzo[k]fluoranthene	7.111	252	587280	1669.211	ng/ml	100
39) Benzo[a]pyrene	7.396	252	516789	1762.792	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.680	276	507952	1858.512	ng/ml#	81
41) Dibenzo[a,h]anthracene	8.714	278	478929M6	1721.410	ng/ml	
42) Benzo[g,h,i]perylene	9.023	276	473808	1653.744	ng/ml#	79

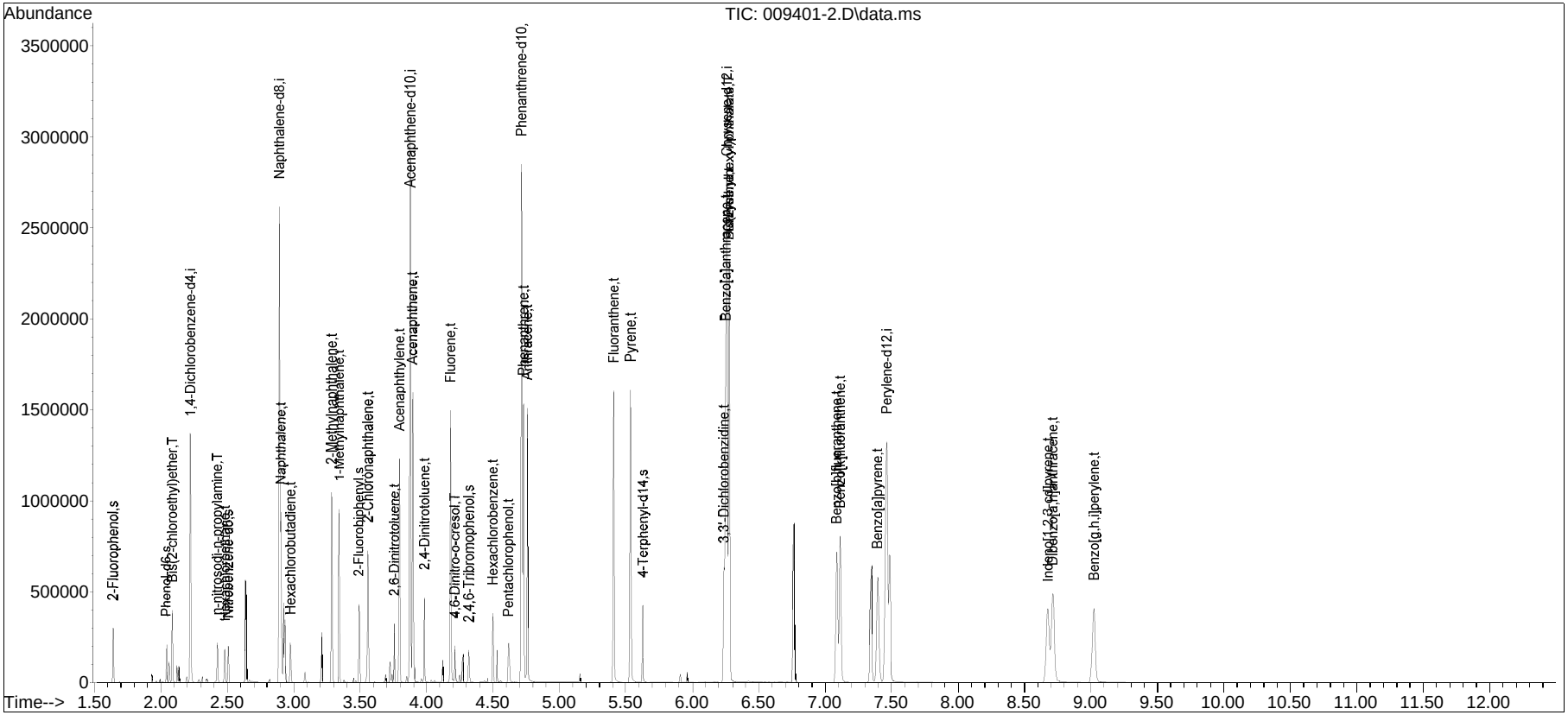
(#) = qualifier out of range (m) = manual integration (+) = signals summed

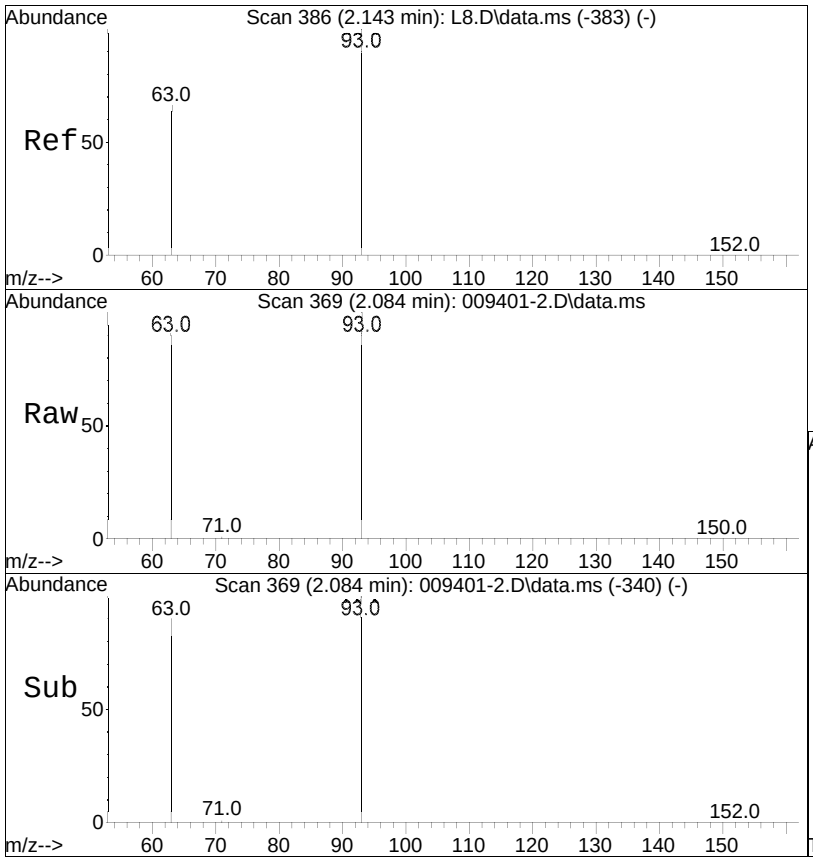
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 009401-2.D
Acq On : 16 Dec 2024 08:27 am
Operator : SV118:dv
Sample : WG2009401-2,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 17 13:06:03 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv1216.D•

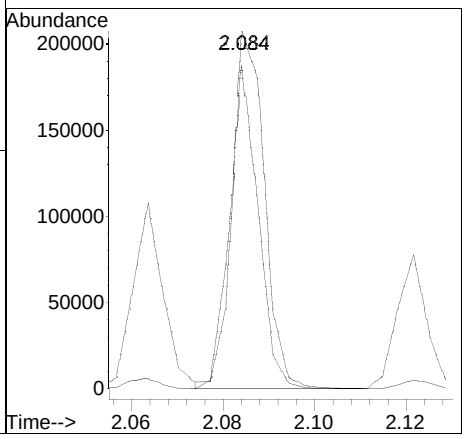


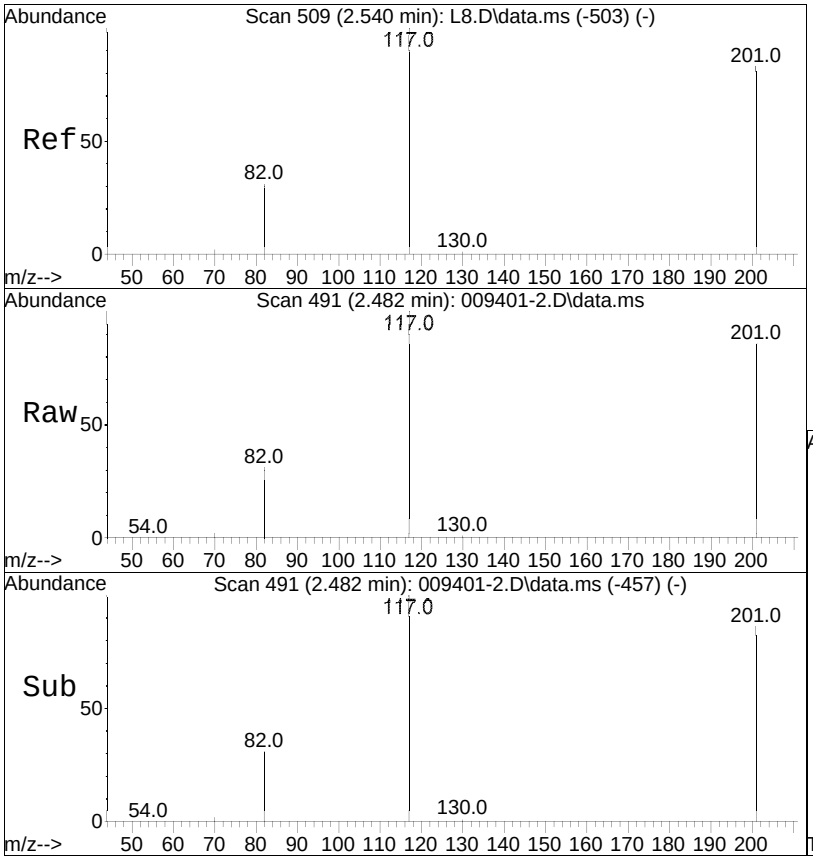


#4
Bis(2-chloroethyl)ether
Concen: 1247.06 ng/ml
RT: 2.084 min Scan# 369
Delta R.T. -0.000 min
Lab File: 009401-2.D
Acq: 16 Dec 2024 08:27 am

Tgt Ion: 93 Resp: 101055

Ion	Ratio	Lower	Upper
93	100		
63	80.1	68.1	102.1

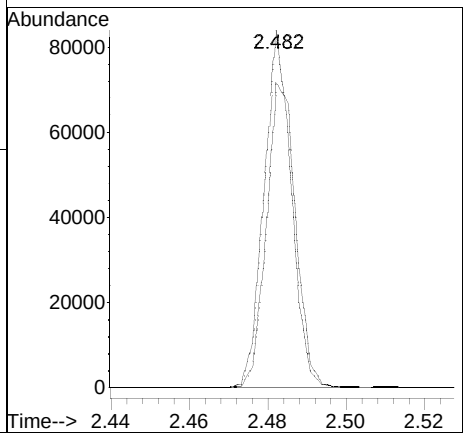


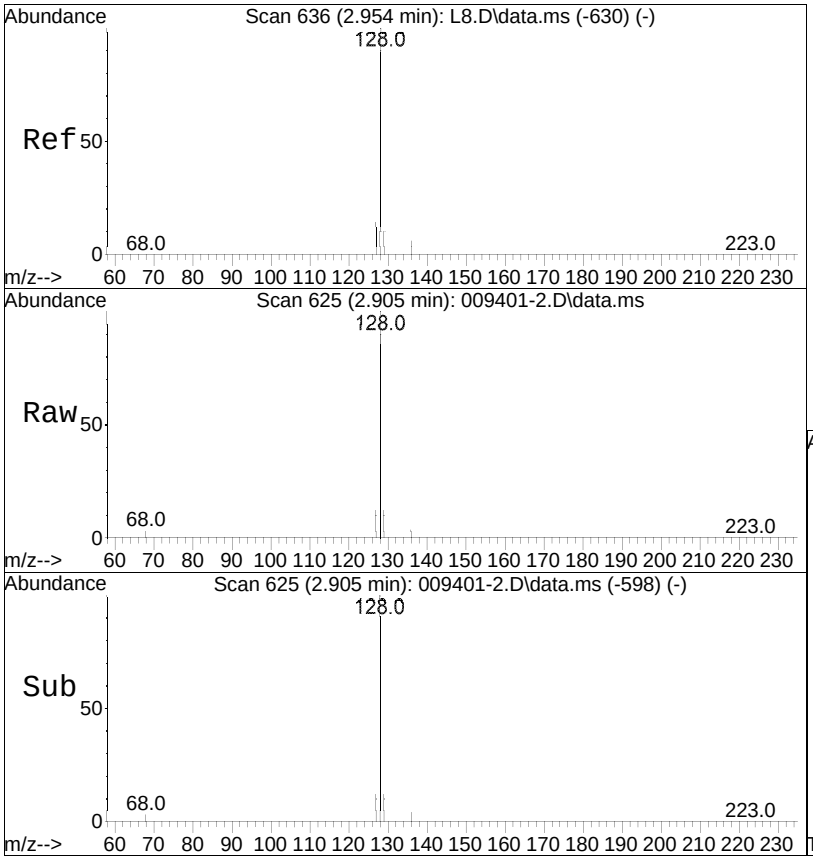


#6
Hexachloroethane
Concen: 1157.56 ng/ml
RT: 2.482 min Scan# 491
Delta R.T. -0.000 min
Lab File: 009401-2.D
Acq: 16 Dec 2024 08:27 am

Tgt Ion:117 Resp: 39743

Ion	Ratio	Lower	Upper
117	100		
201	91.7	84.9	127.3

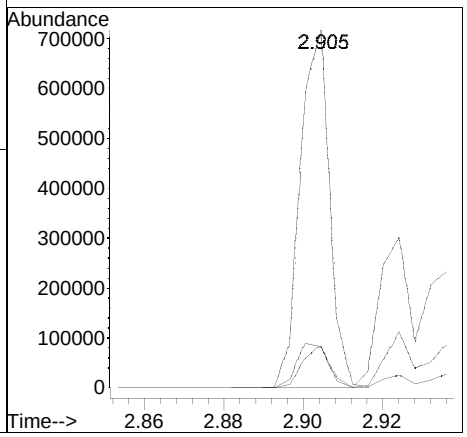


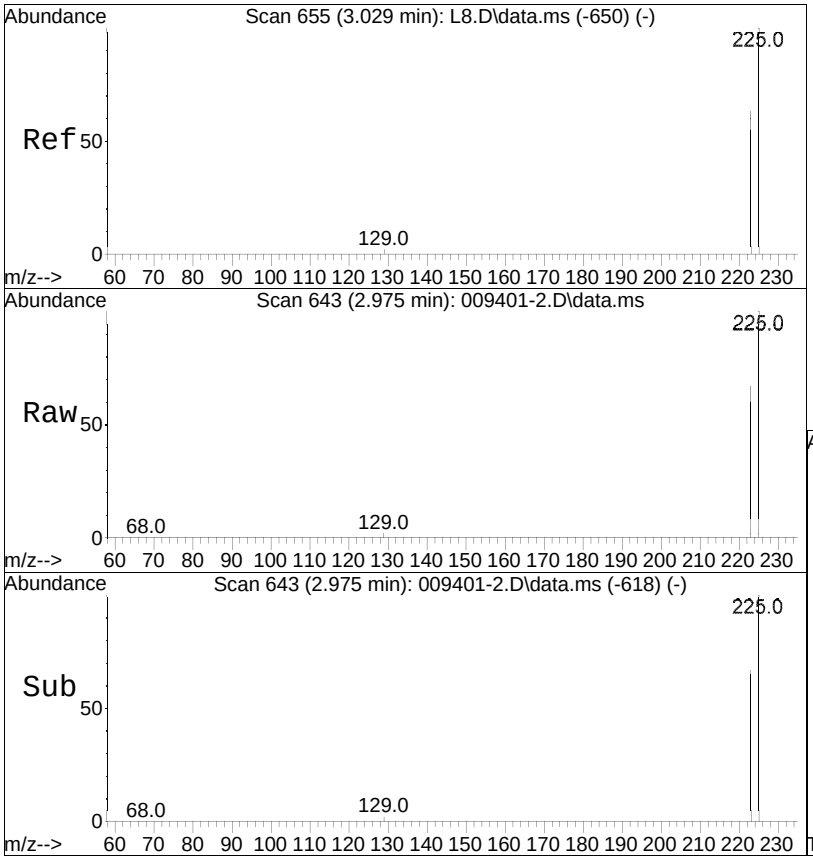


#9
Naphthalene
Concen: 1152.13 ng/ml
RT: 2.905 min Scan# 625
Delta R.T. 0.004 min
Lab File: 009401-2.D
Acq: 16 Dec 2024 08:27 am

Tgt Ion:128 Resp: 366071

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	13.3	10.7	16.1

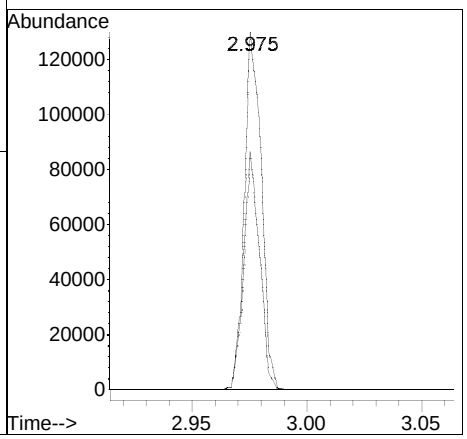


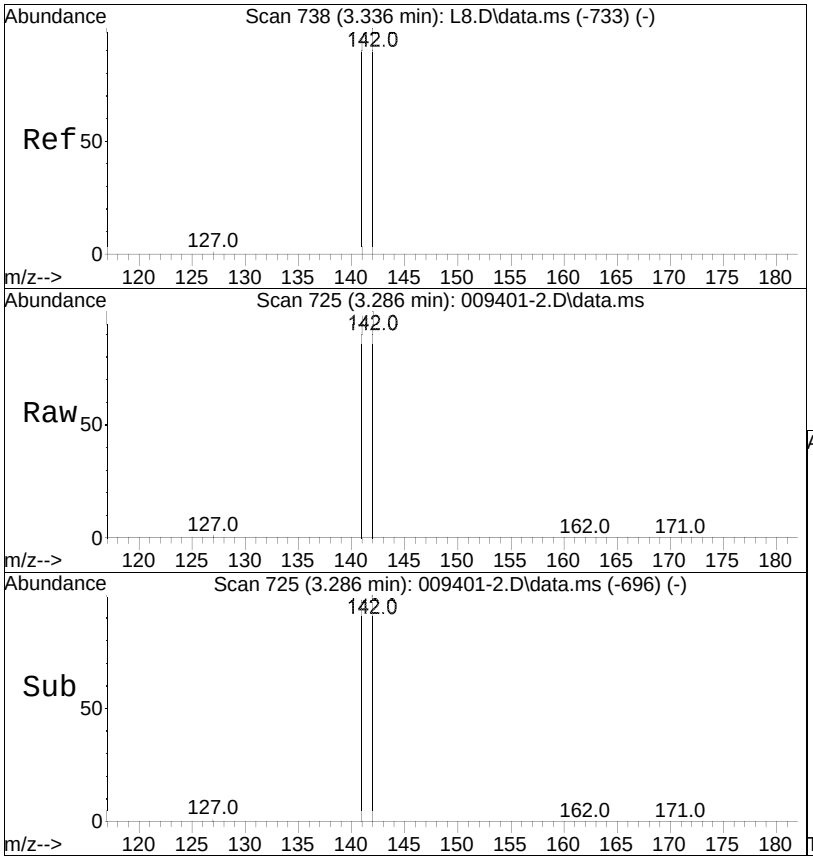


#10
Hexachlorobutadiene
Concen: 1144.11 ng/ml
RT: 2.975 min Scan# 643
Delta R.T. -0.000 min
Lab File: 009401-2.D
Acq: 16 Dec 2024 08:27 am

Tgt Ion:225 Resp: 64521

Ion	Ratio	Lower	Upper
225	100		
223	62.4	50.4	75.6

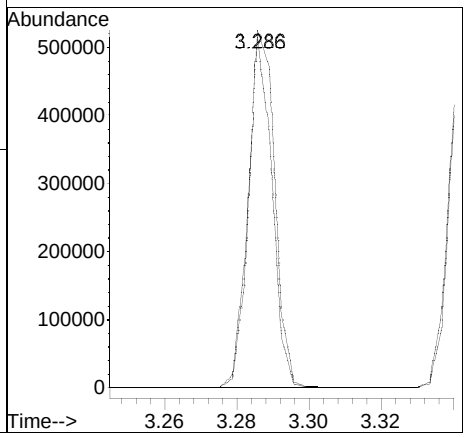


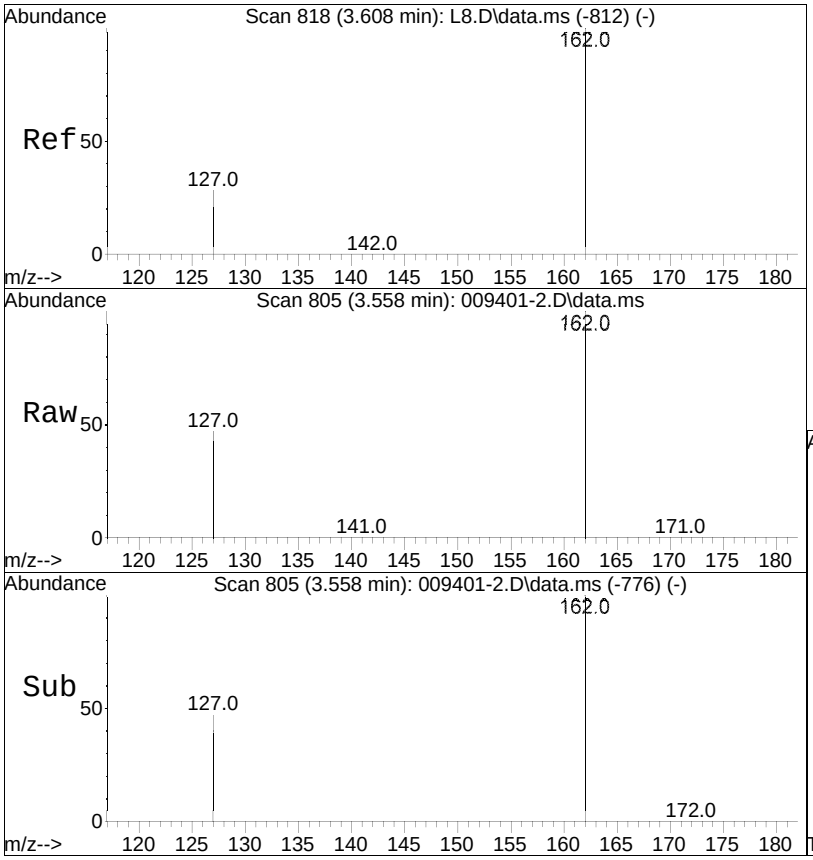


#11
2-Methylnaphthalene
Concen: 1289.55 ng/ml
RT: 3.286 min Scan# 725
Delta R.T. -0.000 min
Lab File: 009401-2.D
Acq: 16 Dec 2024 08:27 am

Tgt Ion:142 Resp: 262442

Ion	Ratio	Lower	Upper
142	100		
141	91.2	71.8	107.8

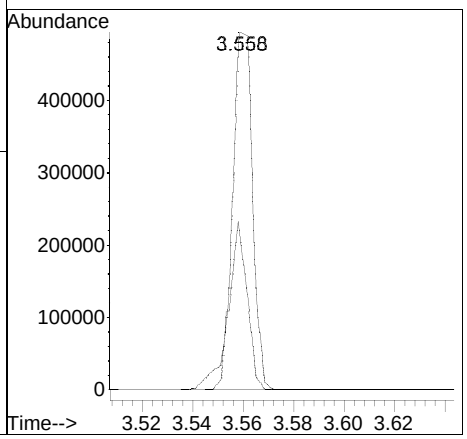


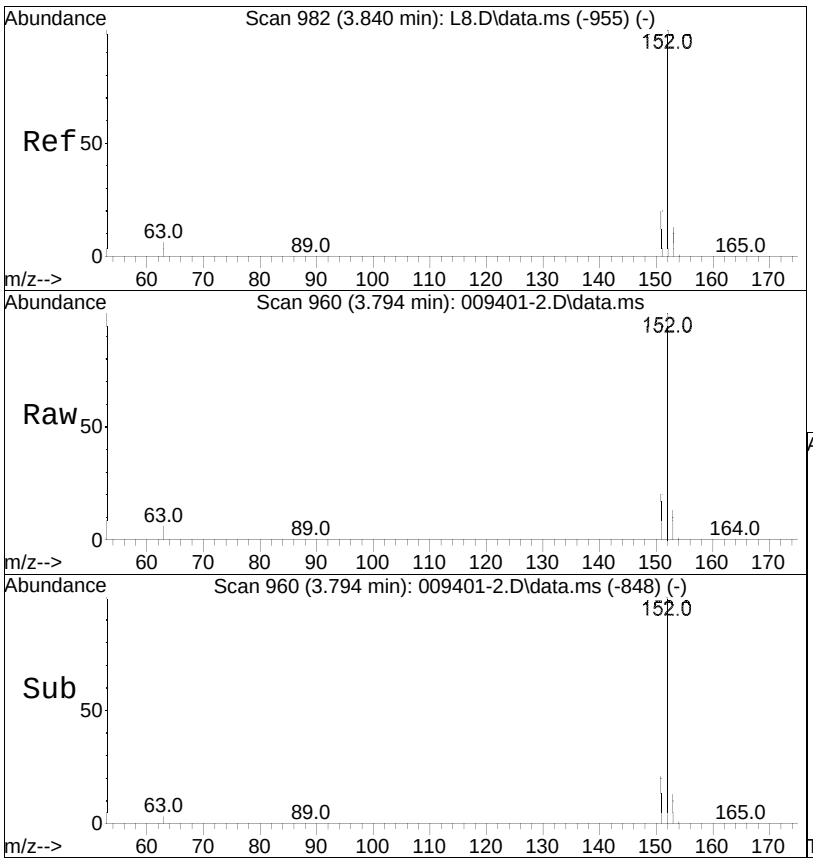


#14
2-Chloronaphthalene
Concen: 1295.97 ng/ml
RT: 3.558 min Scan# 805
Delta R.T. -0.000 min
Lab File: 009401-2.D
Acq: 16 Dec 2024 08:27 am

Tgt Ion:162 Resp: 264714

Ion	Ratio	Lower	Upper
162	100		
127	45.2	26.9	40.3#

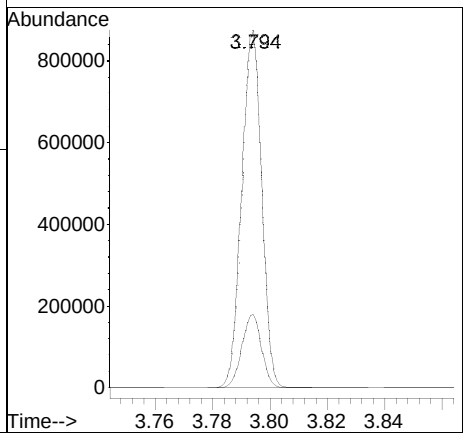


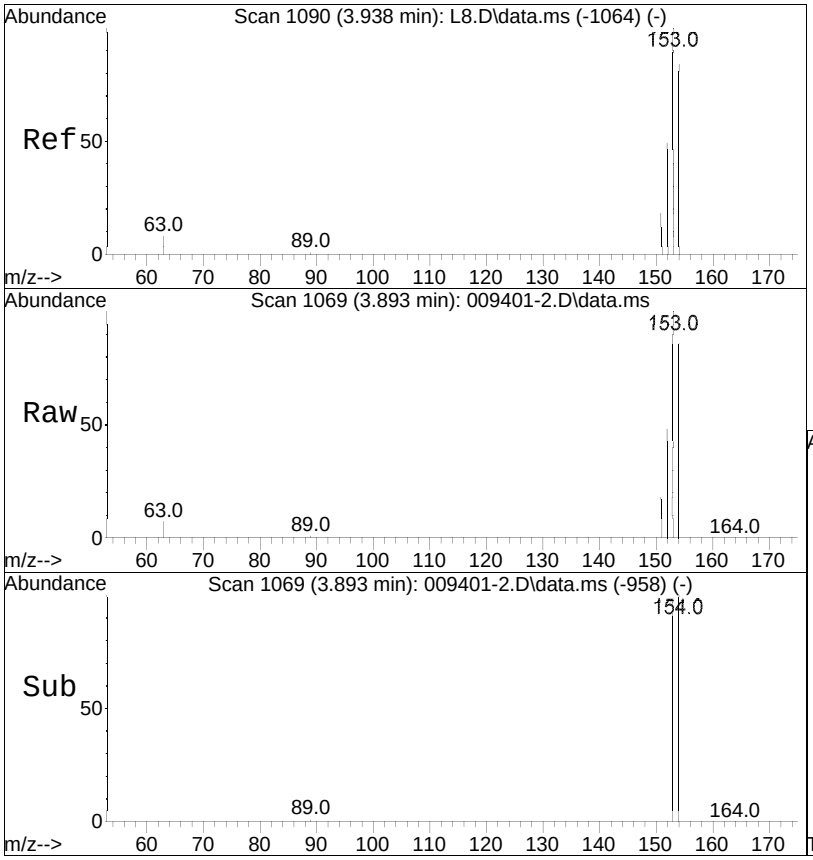


#16
Acenaphthylene
Concen: 1374.27 ng/ml
RT: 3.794 min Scan# 960
Delta R.T. 0.001 min
Lab File: 009401-2.D
Acq: 16 Dec 2024 08:27 am

Tgt Ion:152 Resp: 415550

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.2	24.2

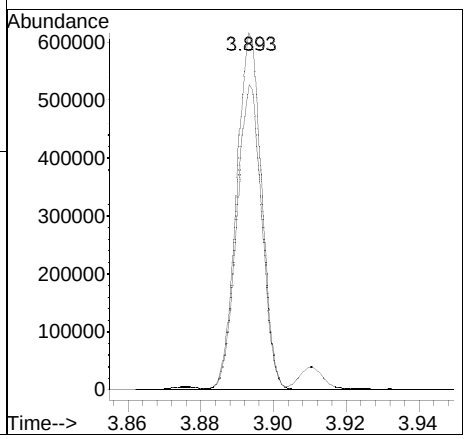


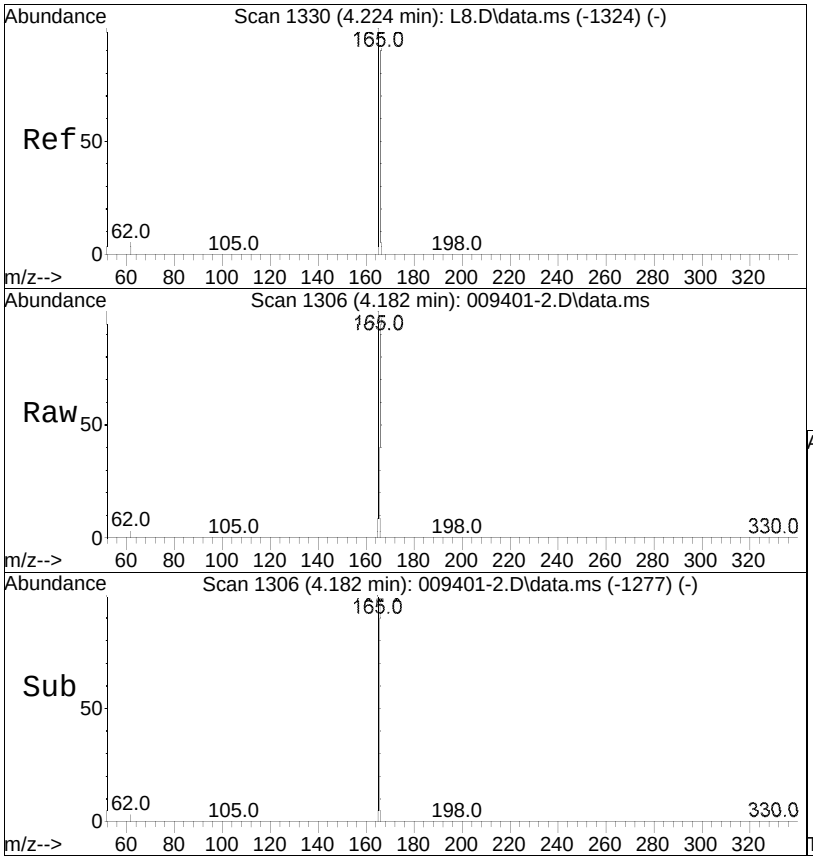


#18
Acenaphthene
Concen: 1308.13 ng/ml
RT: 3.893 min Scan# 1069
Delta R.T. 0.000 min
Lab File: 009401-2.D
Acq: 16 Dec 2024 08:27 am

Tgt Ion:153 Resp: 290111

Ion	Ratio	Lower	Upper
153	100		
154	85.2	68.2	102.4

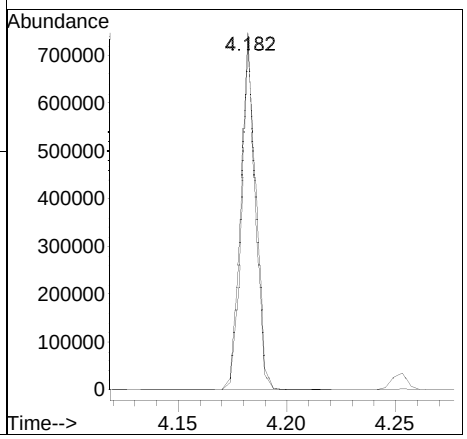


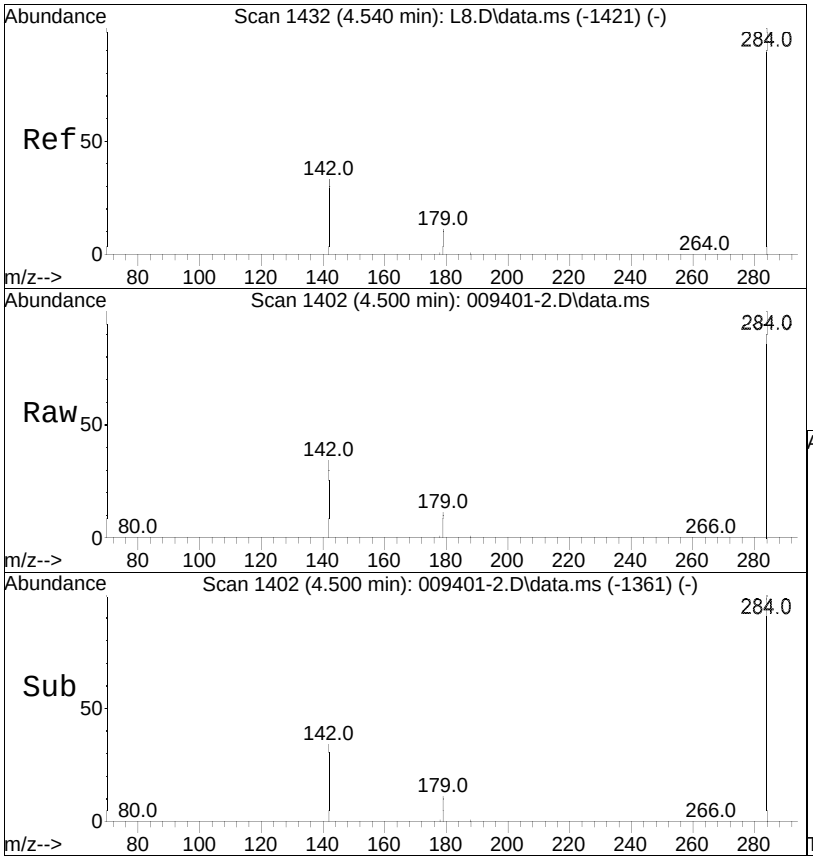


#20
Fluorene
Concen: 1429.55 ng/ml
RT: 4.182 min Scan# 1306
Delta R.T. -0.000 min
Lab File: 009401-2.D
Acq: 16 Dec 2024 08:27 am

Tgt Ion:166 Resp: 337769

Ion	Ratio	Lower	Upper
166	100		
165	101.3	80.5	120.7

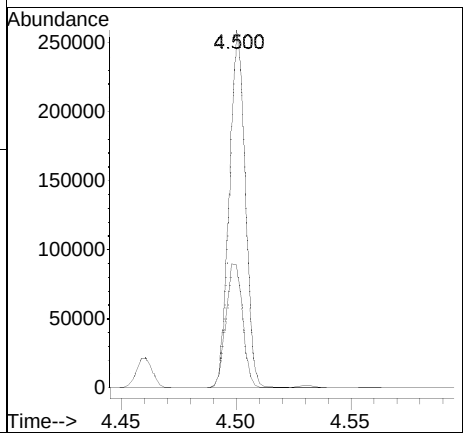


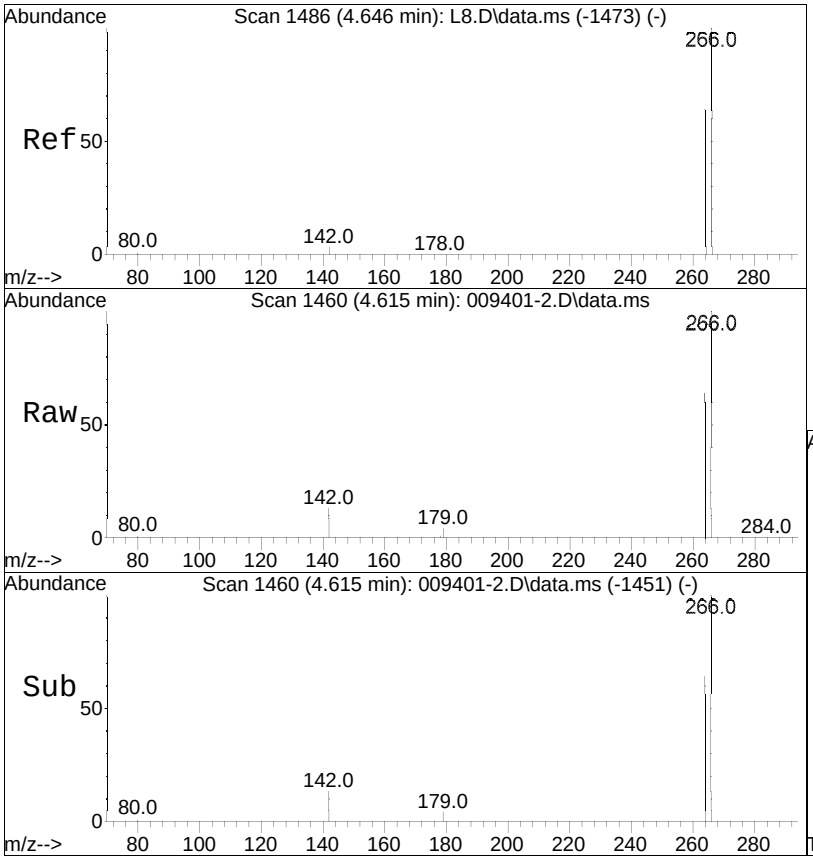


#24
Hexachlorobenzene
Concen: 1359.12 ng/ml
RT: 4.500 min Scan# 1402
Delta R.T. -0.000 min
Lab File: 009401-2.D
Acq: 16 Dec 2024 08:27 am

Tgt Ion:284 Resp: 122949

Ion	Ratio	Lower	Upper
284	100		
142	36.6	28.4	42.6

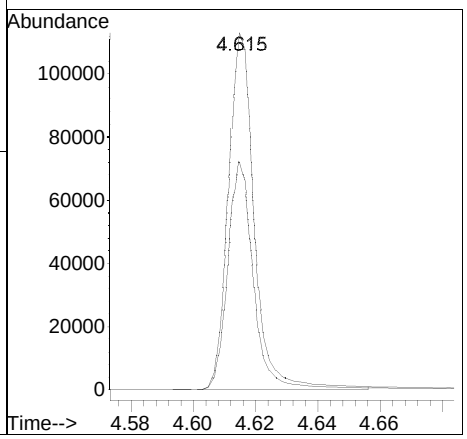


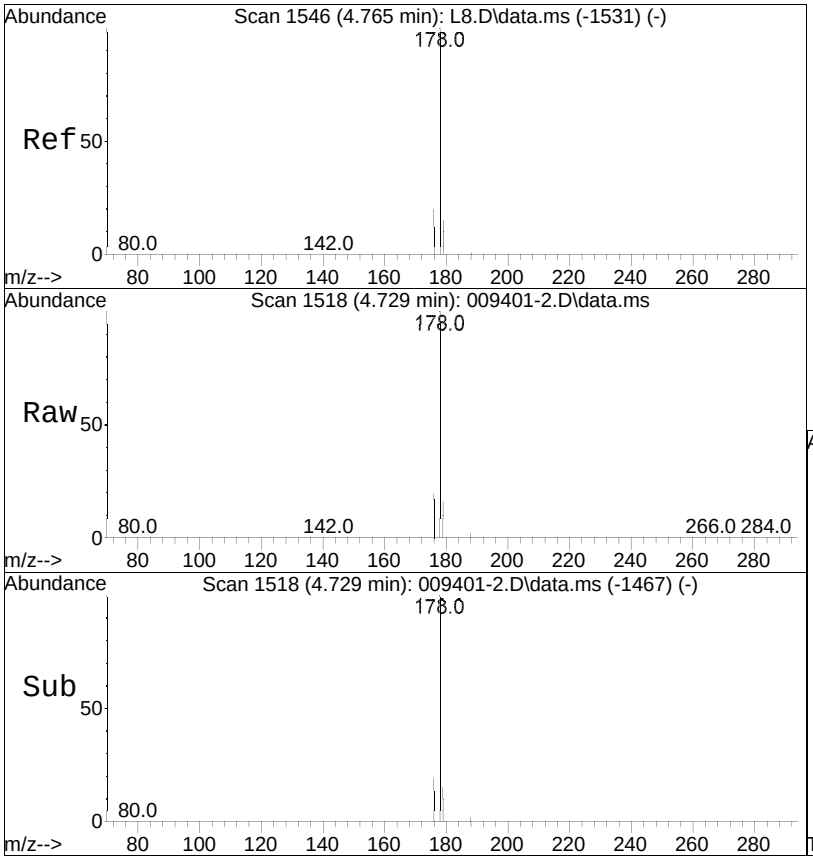


#25
Pentachlorophenol
Concen: 1935.67 ng/ml
RT: 4.615 min Scan# 1460
Delta R.T. -0.002 min
Lab File: 009401-2.D
Acq: 16 Dec 2024 08:27 am

Tgt Ion:266 Resp: 65132

Ion	Ratio	Lower	Upper
266	100		
264	63.5	50.6	76.0

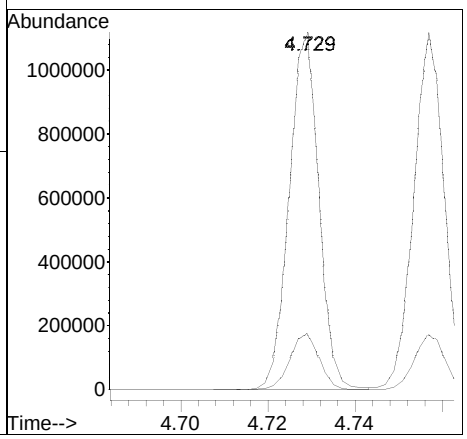


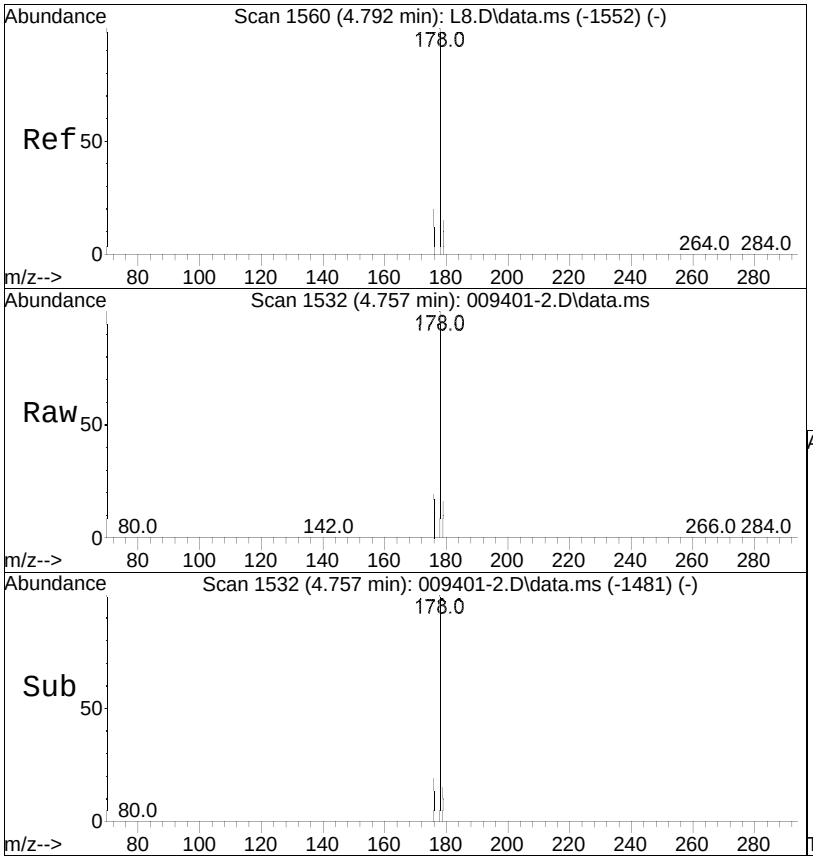


#26
Phenanthrene
Concen: 1416.55 ng/ml
RT: 4.729 min Scan# 1518
Delta R.T. -0.000 min
Lab File: 009401-2.D
Acq: 16 Dec 2024 08:27 am

Tgt Ion:178 Resp: 528374

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.5	18.7

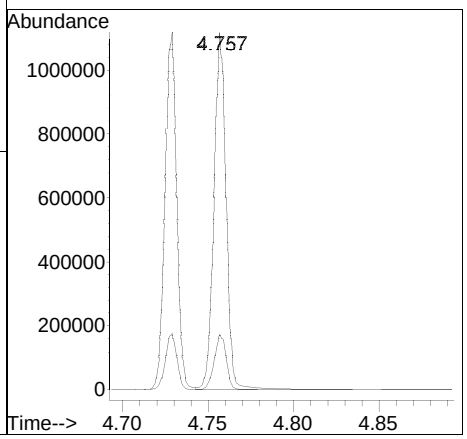


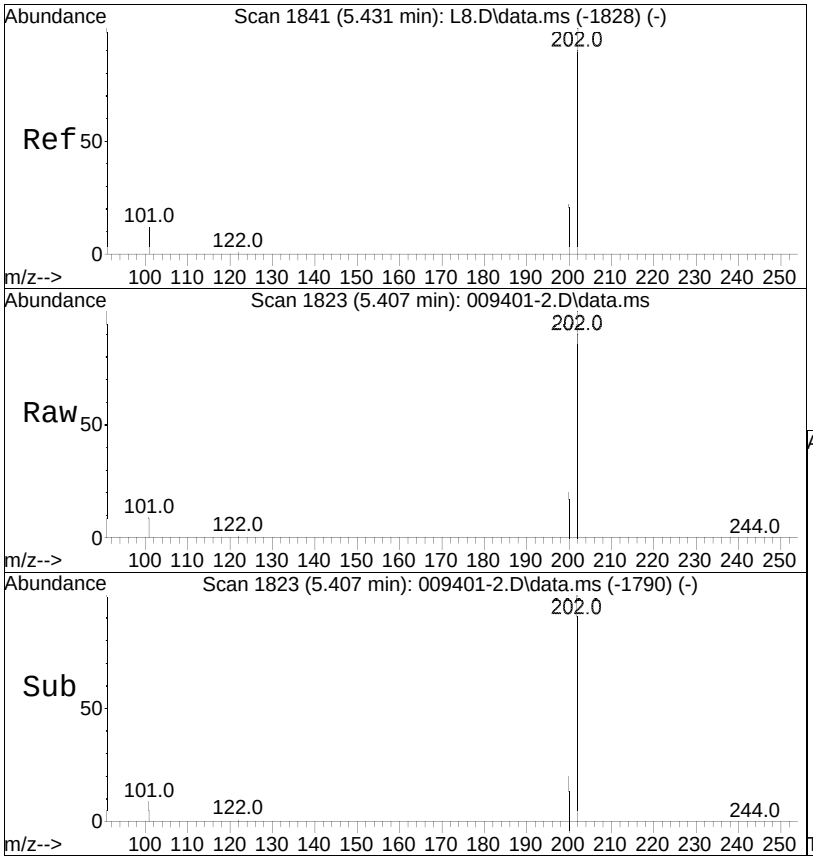


#27
Anthracene
Concen: 1507.24 ng/ml
RT: 4.757 min Scan# 1532
Delta R.T. -0.000 min
Lab File: 009401-2.D
Acq: 16 Dec 2024 08:27 am

Tgt Ion:178 Resp: 551731

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.5	18.7

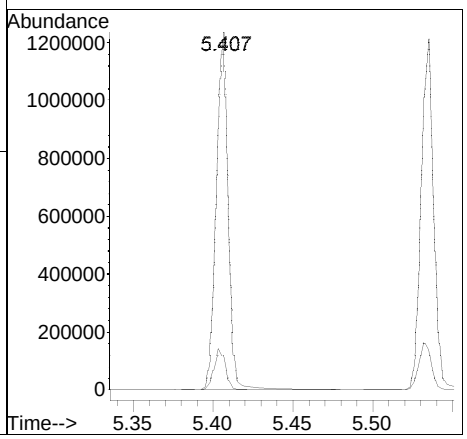


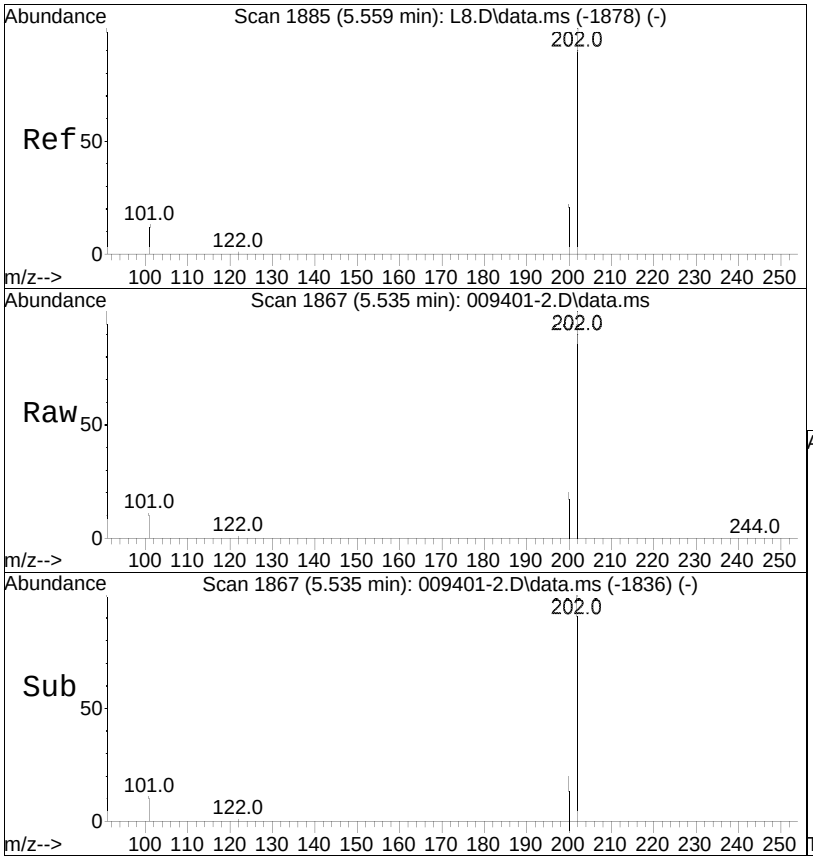


#28
Fluoranthene
Concen: 1534.72 ng/ml
RT: 5.407 min Scan# 1823
Delta R.T. -0.004 min
Lab File: 009401-2.D
Acq: 16 Dec 2024 08:27 am

Tgt Ion:202 Resp: 640801

Ion	Ratio	Lower	Upper
202	100		
101	11.3	6.9	10.3#

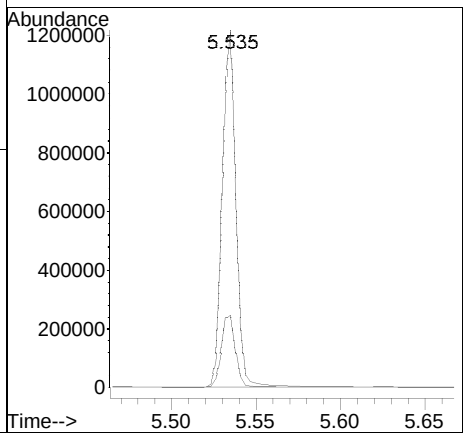


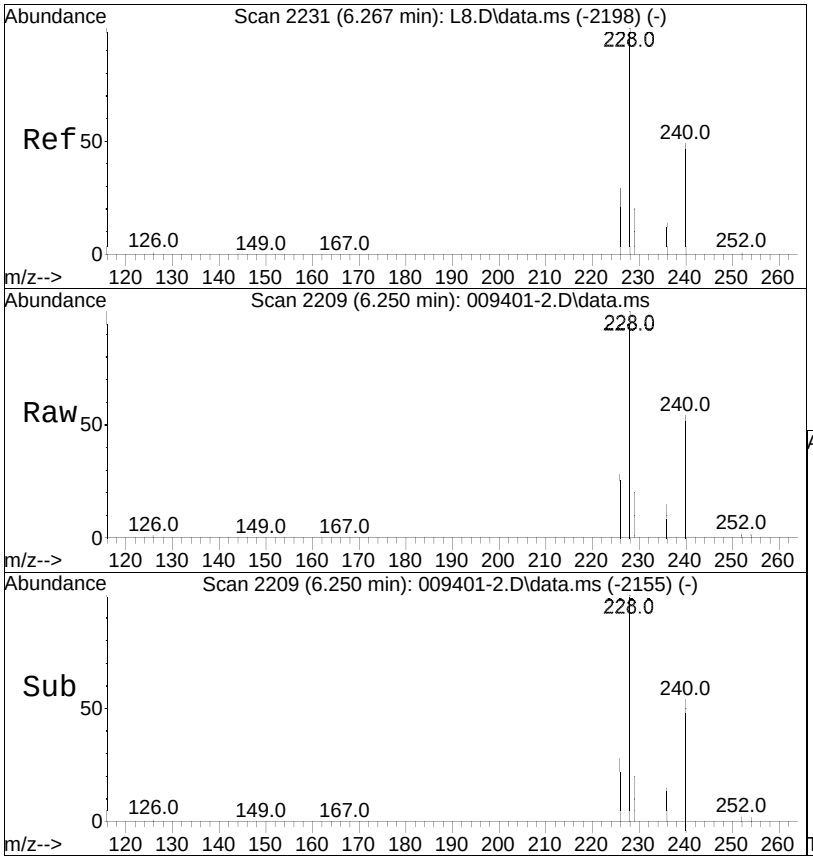


#29
Pyrene
Concen: 1508.63 ng/ml
RT: 5.535 min Scan# 1867
Delta R.T. -0.010 min
Lab File: 009401-2.D
Acq: 16 Dec 2024 08:27 am

Tgt Ion:202 Resp: 669135

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.4	26.0

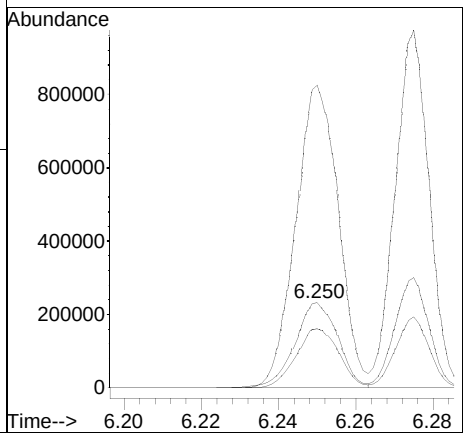


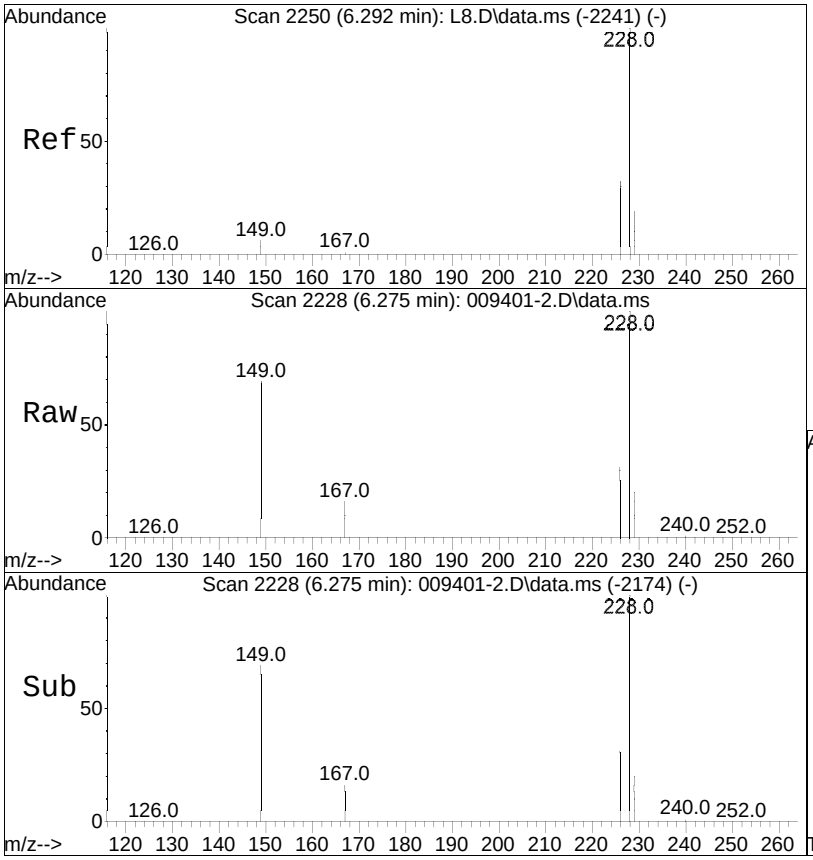


#32
Benzo[a]anthracene
Concen: 1424.79 ng/ml
RT: 6.250 min Scan# 2209
Delta R.T. -0.027 min
Lab File: 009401-2.D
Acq: 16 Dec 2024 08:27 am

Tgt Ion:226 Resp: 179711

Ion	Ratio	Lower	Upper
226	100		
227	0.0	0.0	0.0
228	351.6	284.1	426.1
229	69.1	56.6	85.0

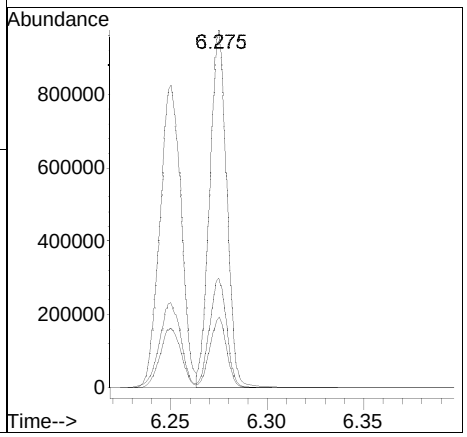


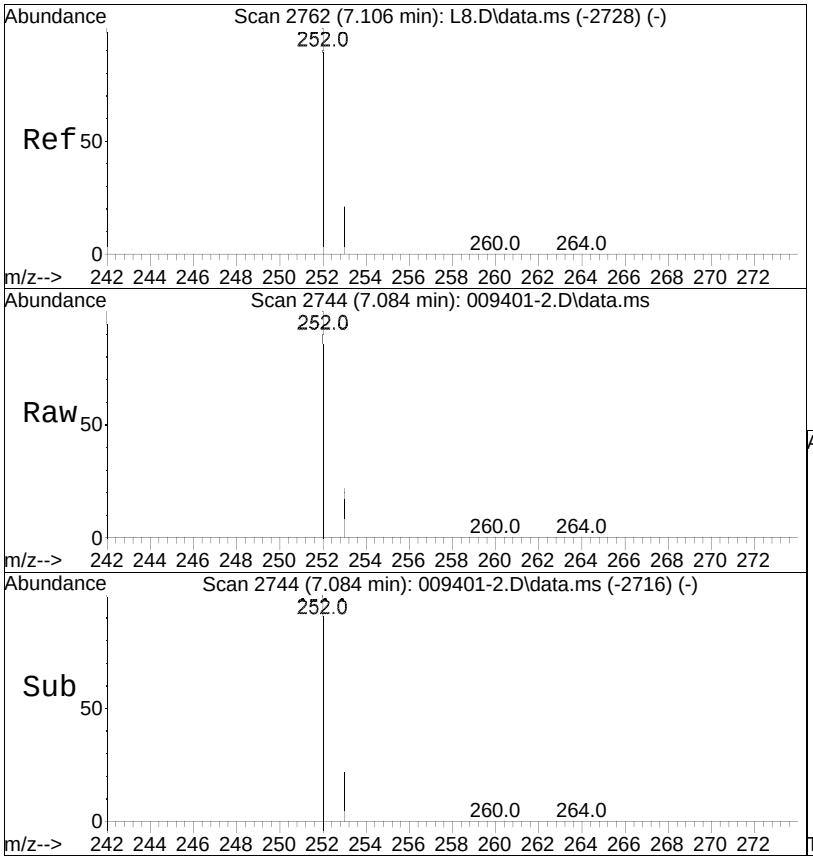


#34
Chrysene
Concen: 1543.44 ng/ml
RT: 6.275 min Scan# 2228
Delta R.T. -0.029 min
Lab File: 009401-2.D
Acq: 16 Dec 2024 08:27 am

Tgt Ion:228 Resp: 599660

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	36.8
227	0.0	0.0	0.0
229	19.6	15.4	23.2

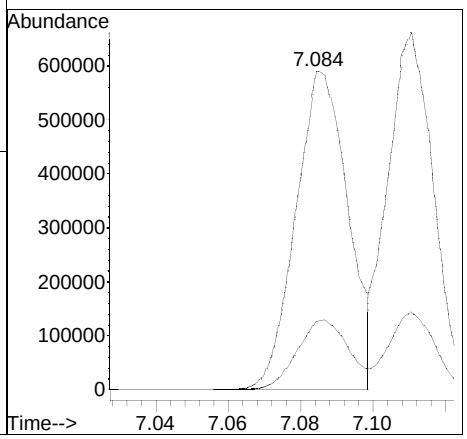


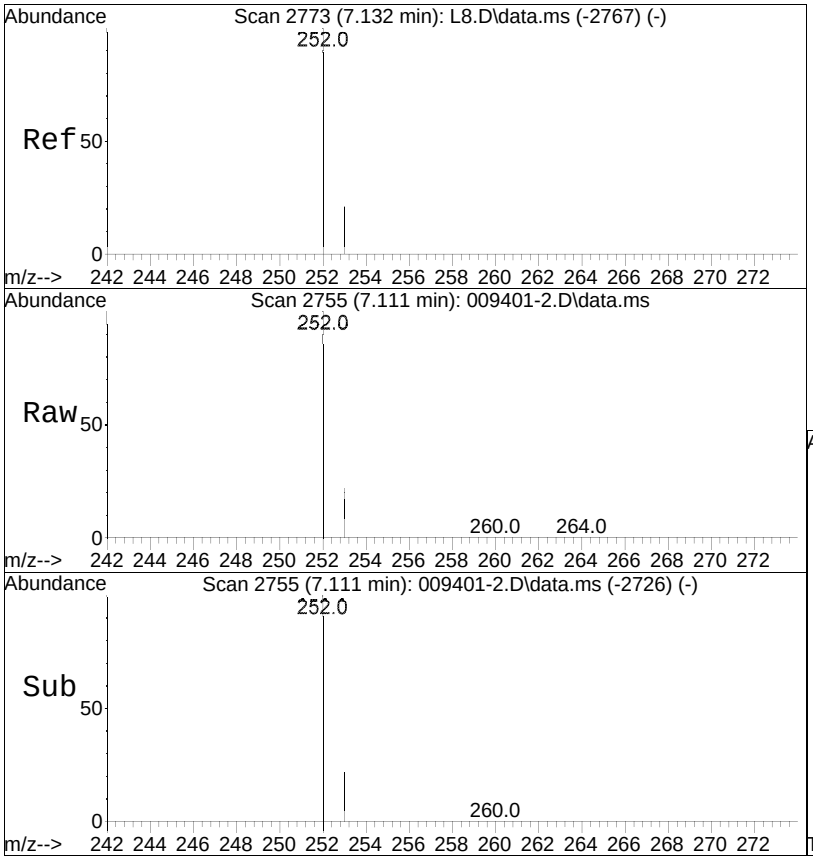


#37
Benzo[b]fluoranthene
Concen: 1788.07 ng/ml
RT: 7.084 min Scan# 2744
Delta R.T. -0.033 min
Lab File: 009401-2.D
Acq: 16 Dec 2024 08:27 am

Tgt Ion:252 Resp: 593340

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.6	26.4

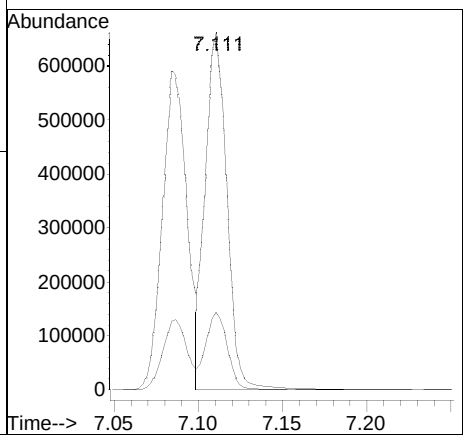


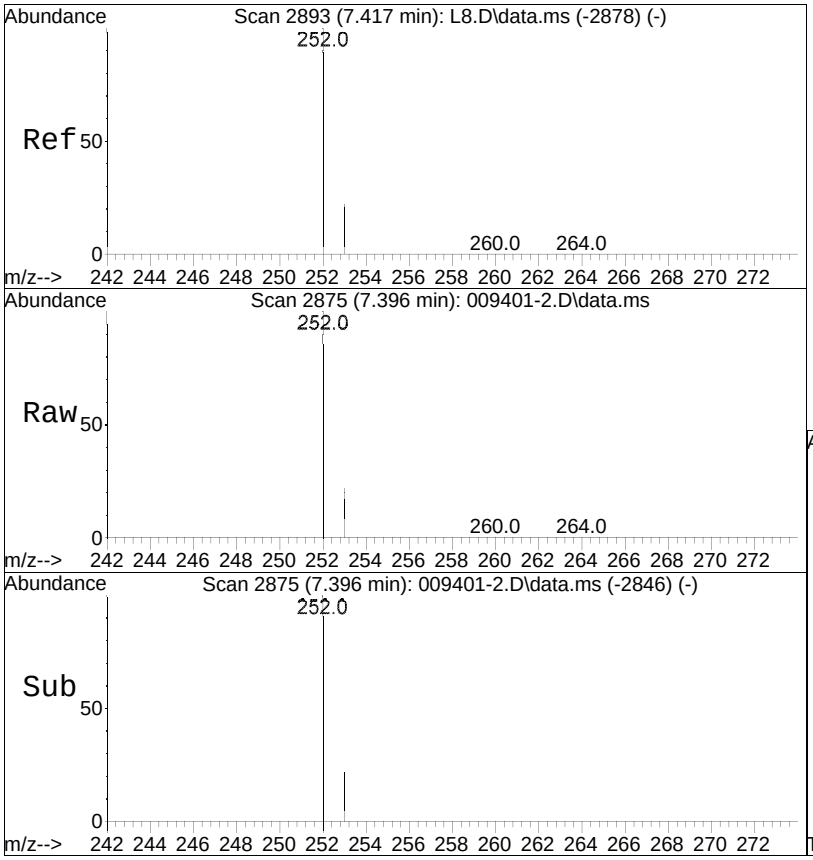


#38
Benzo[k]fluoranthene
Concen: 1669.21 ng/ml
RT: 7.111 min Scan# 2755
Delta R.T. -0.031 min
Lab File: 009401-2.D
Acq: 16 Dec 2024 08:27 am

Tgt Ion:252 Resp: 587280

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.6	26.4

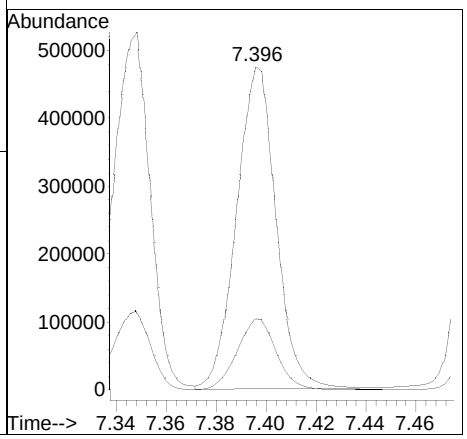


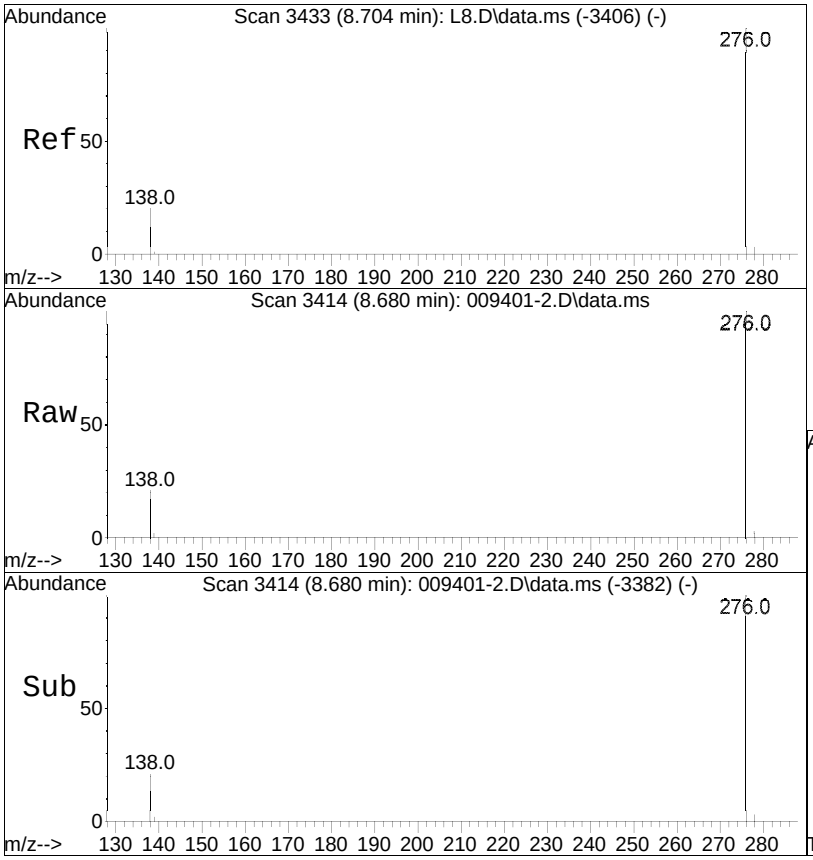


#39
Benzo[a]pyrene
Concen: 1762.79 ng/ml
RT: 7.396 min Scan# 2875
Delta R.T. -0.031 min
Lab File: 009401-2.D
Acq: 16 Dec 2024 08:27 am

Tgt Ion:252 Resp: 516789

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3

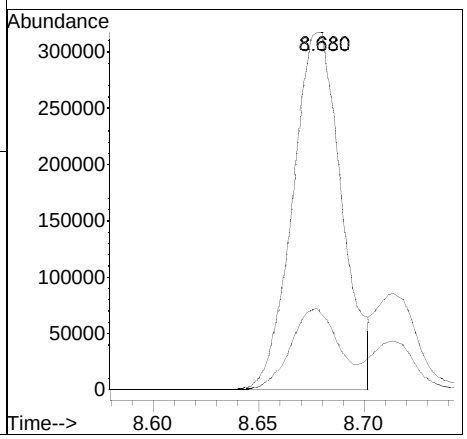


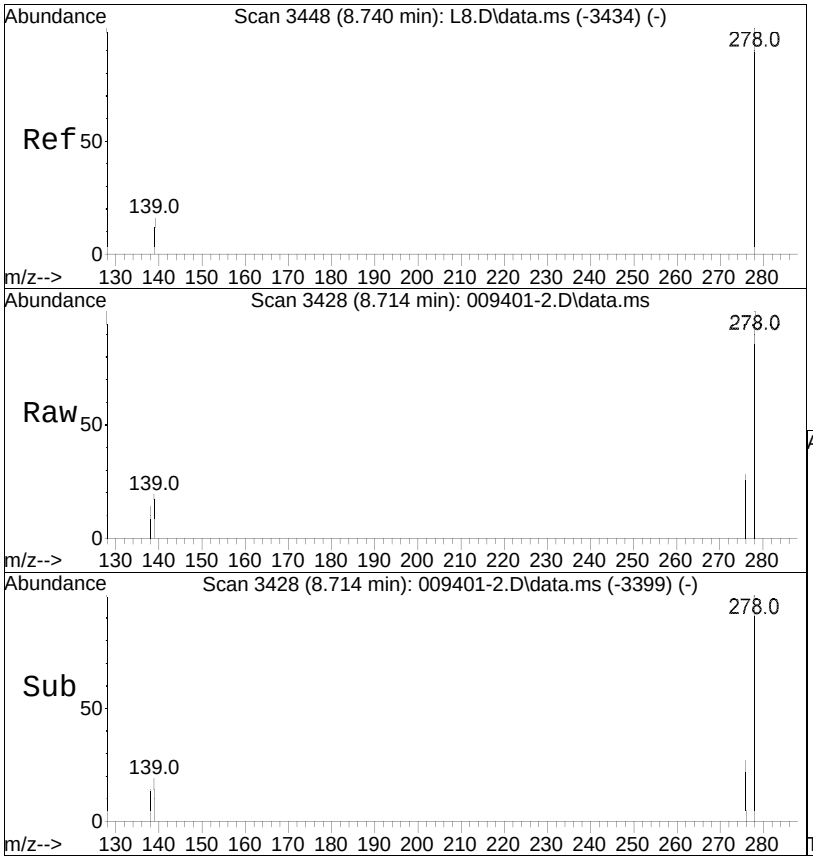


#40
Indeno[1,2,3-cd]pyrene
Concen: 1858.51 ng/ml
RT: 8.680 min Scan# 3414
Delta R.T. -0.024 min
Lab File: 009401-2.D
Acq: 16 Dec 2024 08:27 am

Tgt Ion:276 Resp: 507952

Ion	Ratio	Lower	Upper
276	100		
138	22.4	11.8	17.6#

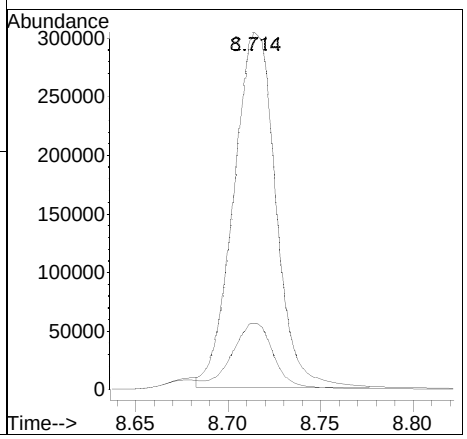


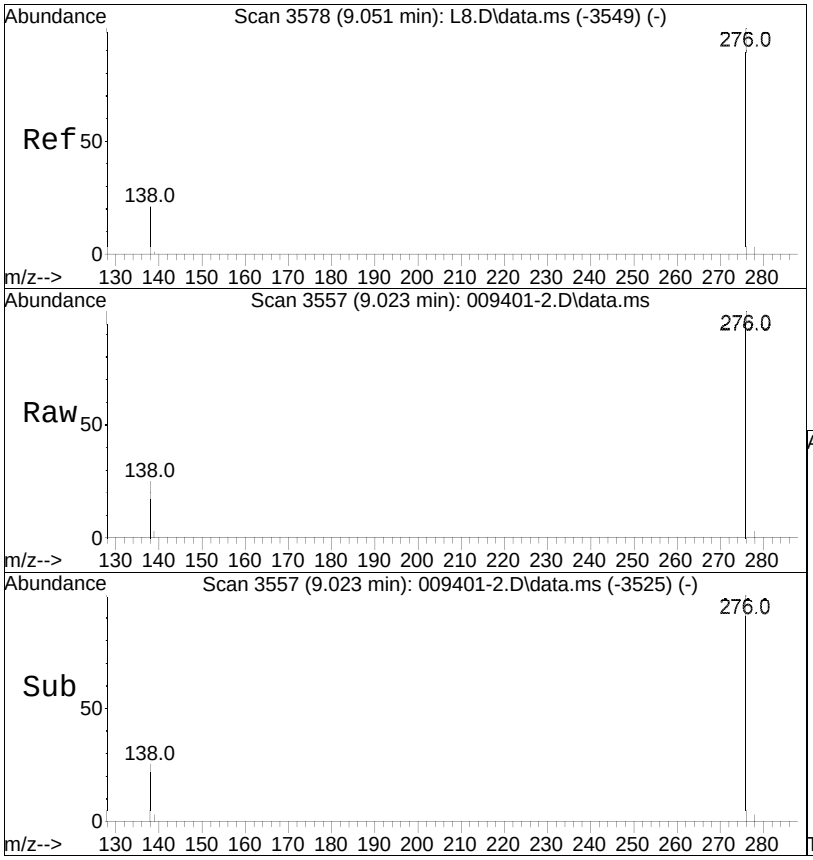


#41
Dibenzo[a,h]anthracene
Concen: 1721.41 ng/ml M6
RT: 8.714 min Scan# 3428
Delta R.T. -0.031 min
Lab File: 009401-2.D
Acq: 16 Dec 2024 08:27 am

Tgt Ion:278 Resp: 478929

Ion	Ratio	Lower	Upper
278	100		
139	18.4	9.8	14.8#

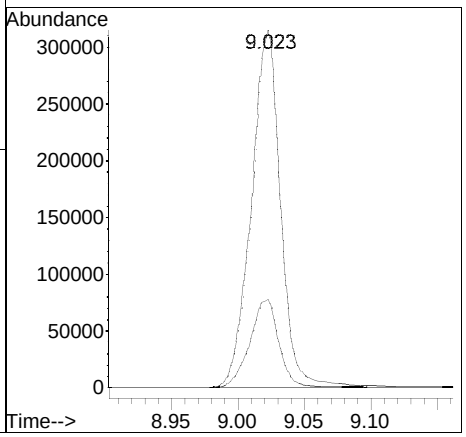




#42
Benzo[g,h,i]perylene
Concen: 1653.74 ng/ml
RT: 9.023 min Scan# 3557
Delta R.T. -0.024 min
Lab File: 009401-2.D
Acq: 16 Dec 2024 08:27 am

Tgt Ion:276 Resp: 473808

Ion	Ratio	Lower	Upper
276	100		
138	24.9	12.8	19.2#

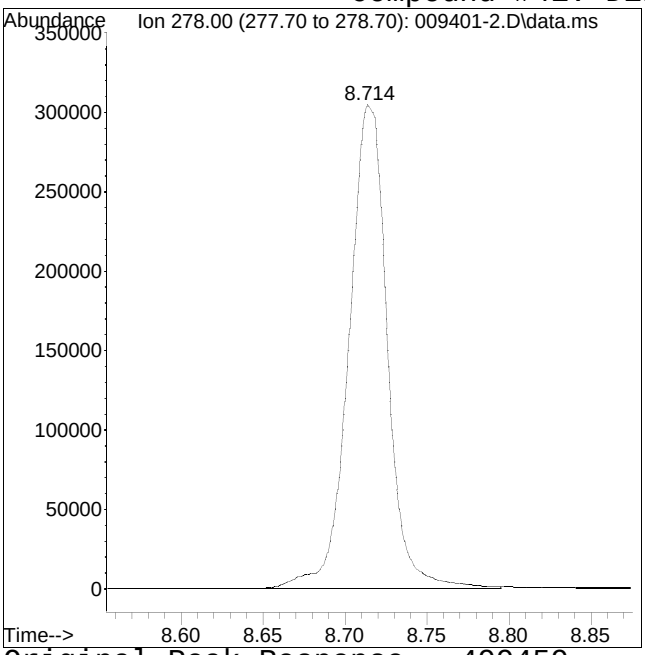


Manual Integration Report

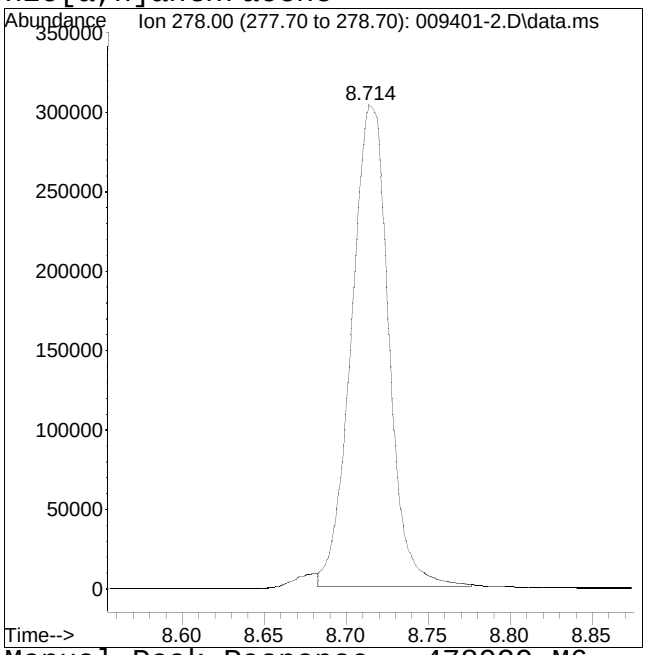
Data Path : I:\8270SIM\SV118\241216RVTQ
Data File : 009401-2.D
Date Inj'd : 12/16/2024 8:27 am
Sample : WG2009401-2,32,,kmh

Method : SIM-RVT_241025sv118.M
Operator : SV118:dv
Instrument : SV118
Quant Date : 12/16/2024 8:40 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 499459



Manual Peak Response = 478929 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 009401-3.D
Acq On : 16 Dec 2024 08:43 am
Operator : SV118:dv
Sample : WG2009401-3,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 17 13:06:34 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\241216RVT\ccv1216.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	2.224	152	273517	4000.000	ng/ml		0.00
Standard Area 1 = 337319			Recovery = 81.09%				
8) Naphthalene-d8	2.893	136	1219242	4000.000	ng/ml		0.00
Standard Area 1 = 1155411			Recovery = 105.52%				
17) Acenaphthene-d10	3.876	164	673505	4000.000	ng/ml		0.00
Standard Area 1 = 643247			Recovery = 104.70%				
22) Phenanthrene-d10	4.717	188	1358958	4000.000	ng/ml	#	0.00
Standard Area 1 = 1305613			Recovery = 104.09%				
31) Chrysene-d12	6.261	240	1312435	4000.000	ng/ml		-0.03
Standard Area 1 = 1642453			Recovery = 79.91%				
36) Perylene-d12	7.465	264	1344446	4000.000	ng/ml		-0.03
Standard Area 1 = 1677056			Recovery = 80.17%				
System Monitoring Compounds							
2) 2-Fluorophenol	1.649	112	91936	1188.853	ng/ml		0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 59.44%				
3) Phenol-d6	2.043	99	78305	824.046	ng/ml		0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 41.20%				
7) Nitrobenzene-d5	2.508	82	62838	1024.261	ng/ml		0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 102.43%				
13) 2-Fluorobiphenyl	3.494	172	175320	747.846	ng/ml		0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 74.78%				
21) 2,4,6-Tribromophenol	4.320	330	67715	2181.926	ng/ml		0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 109.10%				
30) 4-Terphenyl-d14	5.628	244	246784	887.545	ng/ml		0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 88.75%				
Target Compounds							Qvalue
4) Bis(2-chloroethyl)ether	2.088	93	117081	1445.925	ng/ml		96
6) Hexachloroethane	2.485	117	45133	1315.199	ng/ml		86
9) Naphthalene	2.905	128	397844	1239.573	ng/ml		99
10) Hexachlorobutadiene	2.979	225	70635	1239.967	ng/ml		100
11) 2-Methylnaphthalene	3.289	142	288807	1404.868	ng/ml		99
14) 2-Chloronaphthalene	3.558	162	293974	1424.787	ng/ml	#	81
16) Acenaphthylene	3.794	152	459742	1505.172	ng/ml		100
18) Acenaphthene	3.893	153	319517	1451.201	ng/ml		100
20) Fluorene	4.182	166	371541	1583.929	ng/ml		100
24) Hexachlorobenzene	4.500	284	137359	1535.233	ng/ml		98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 009401-3.D
Acq On : 16 Dec 2024 08:43 am
Operator : SV118:dv
Sample : WG2009401-3,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 17 13:06:34 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\241216RVT\ccv1216.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	4.615	266	78302	2352.851	ng/ml	100
26) Phenanthrene	4.729	178	580870	1574.541	ng/ml	100
27) Anthracene	4.757	178	605655	1672.885	ng/ml	100
28) Fluoranthene	5.407	202	710534	1720.591	ng/ml#	92
29) Pyrene	5.535	202	742579	1692.773	ng/ml	100
32) Benzo[a]anthracene	6.251	226	204775	1593.212	ng/ml#	98
34) Chrysene	6.275	228	676246	1708.081	ng/ml#	100
37) Benzo[b]fluoranthene	7.089	252	684033	1973.443	ng/ml	100
38) Benzo[k]fluoranthene	7.113	252	684845	1863.482	ng/ml	100
39) Benzo[a]pyrene	7.398	252	602580	1967.748	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.683	276	590661	2068.940	ng/ml#	81
41) Dibenzo[a,h]anthracene	8.719	278	562757M6	1936.427	ng/ml	
42) Benzo[g,h,i]perylene	9.028	276	556109	1858.201	ng/ml#	79

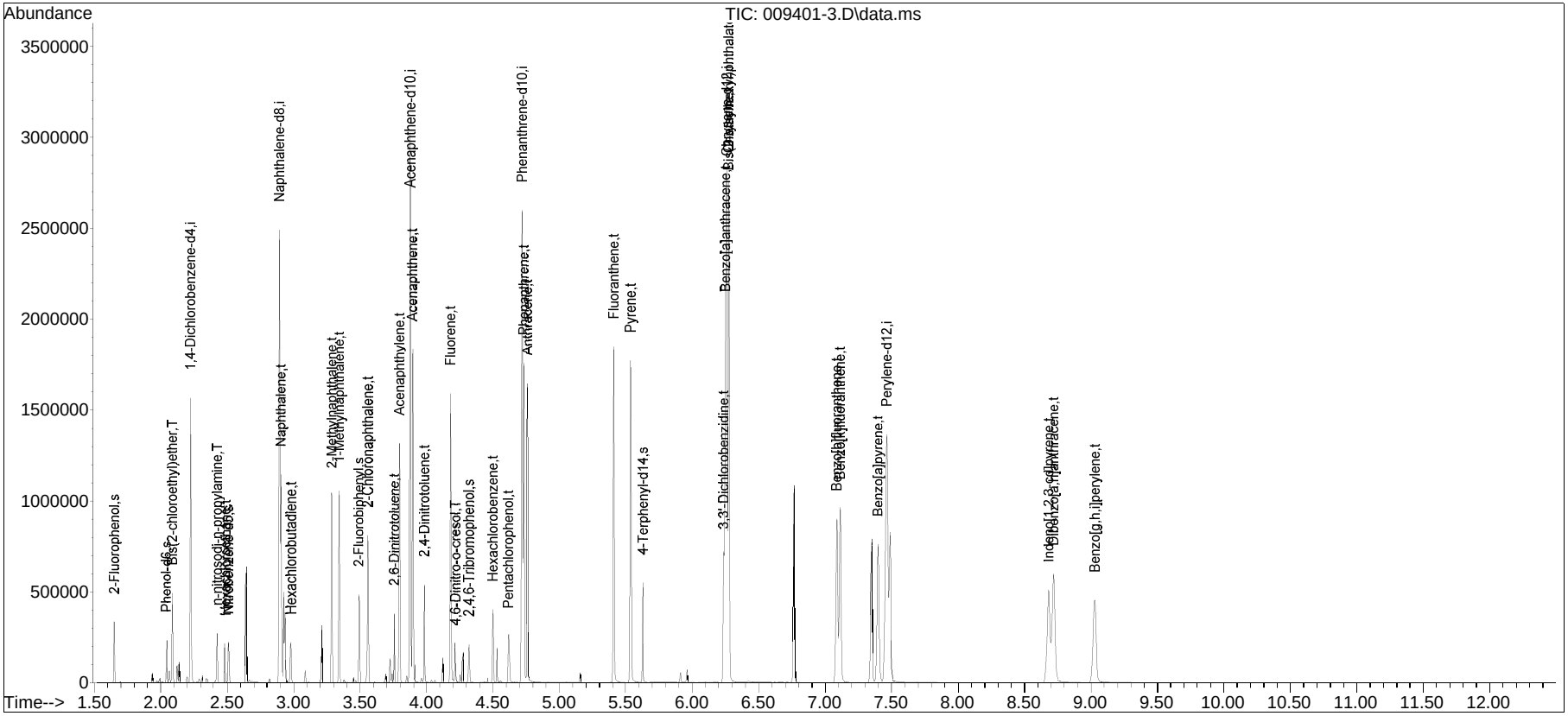
(#) = qualifier out of range (m) = manual integration (+) = signals summed

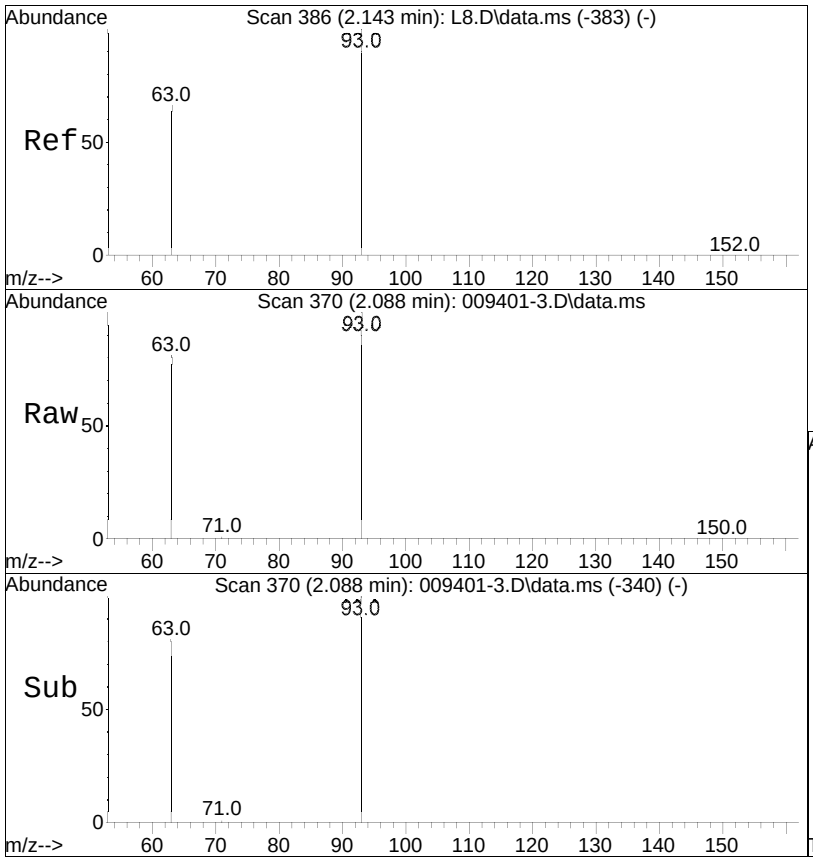
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 009401-3.D
Acq On : 16 Dec 2024 08:43 am
Operator : SV118:dv
Sample : WG2009401-3,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 17 13:06:34 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv1216.D•

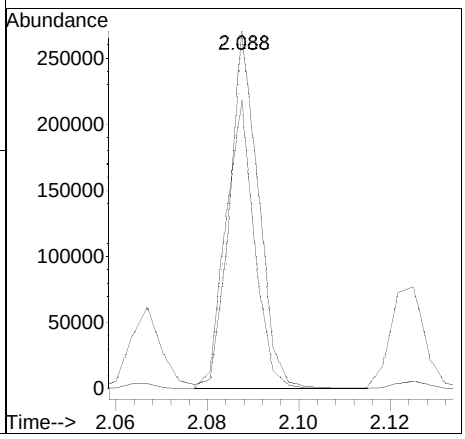


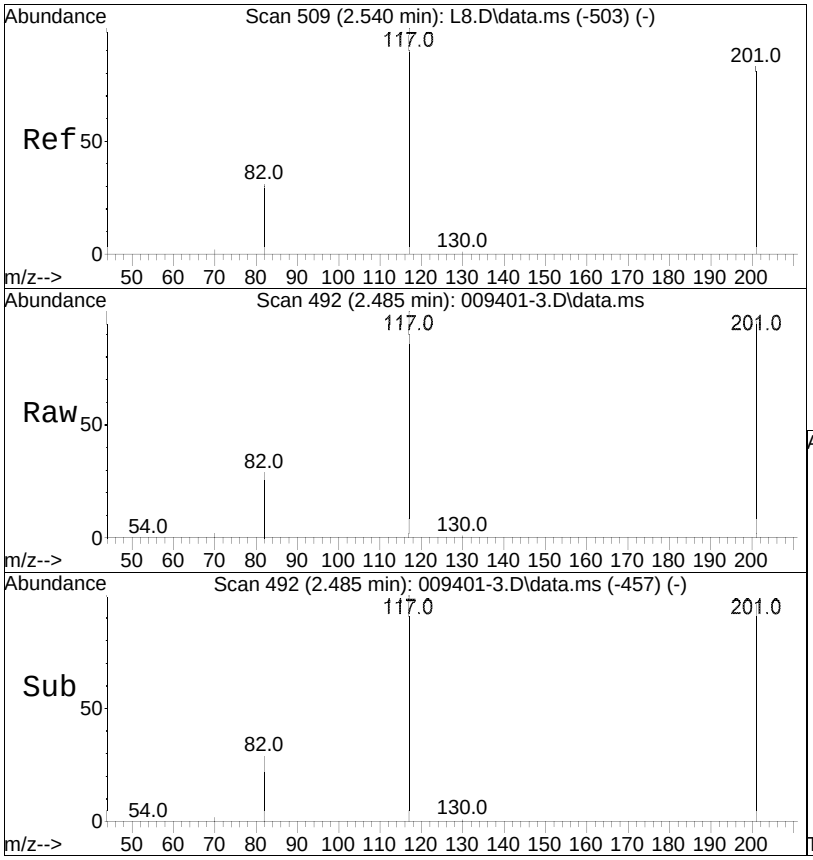


#4
Bis(2-chloroethyl)ether
Concen: 1445.93 ng/ml
RT: 2.088 min Scan# 370
Delta R.T. 0.003 min
Lab File: 009401-3.D
Acq: 16 Dec 2024 08:43 am

Tgt Ion: 93 Resp: 117081

Ion	Ratio	Lower	Upper
93	100		
63	81.0	68.1	102.1

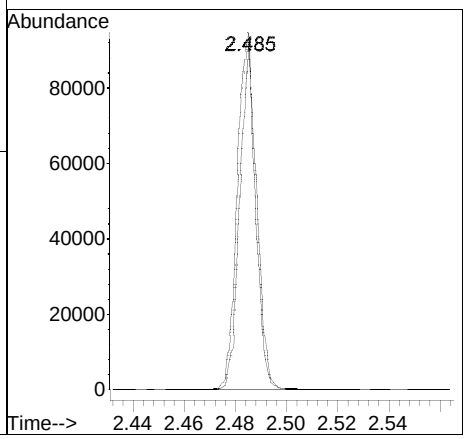


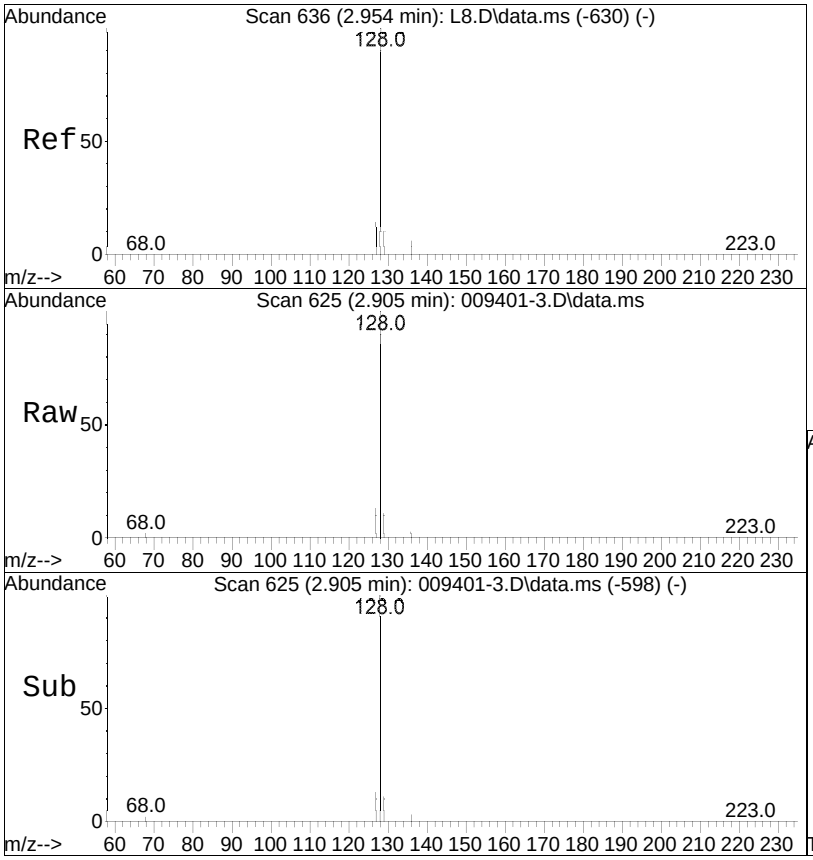


#6
Hexachloroethane
Concen: 1315.20 ng/ml
RT: 2.485 min Scan# 492
Delta R.T. 0.003 min
Lab File: 009401-3.D
Acq: 16 Dec 2024 08:43 am

Tgt Ion:117 Resp: 45133

Ion	Ratio	Lower	Upper
117	100		
201	92.0	84.9	127.3

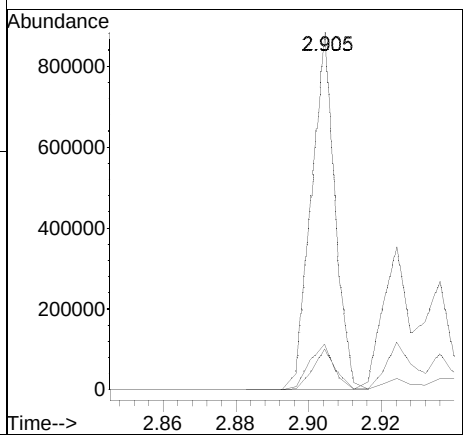


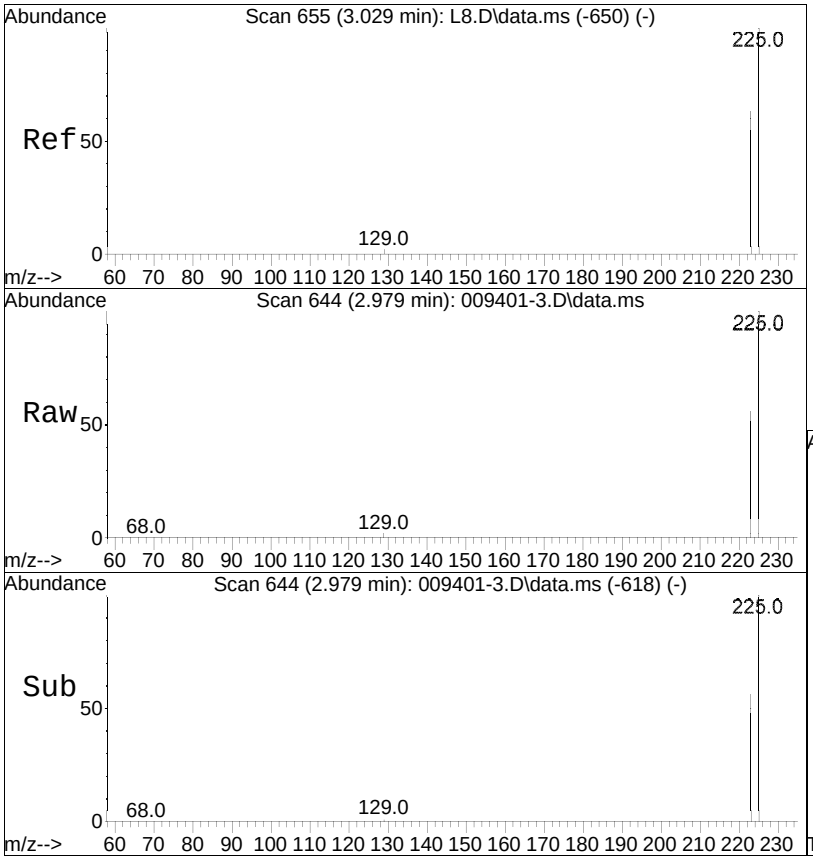


#9
Naphthalene
Concen: 1239.57 ng/ml
RT: 2.905 min Scan# 625
Delta R.T. 0.004 min
Lab File: 009401-3.D
Acq: 16 Dec 2024 08:43 am

Tgt Ion:128 Resp: 397844

Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.8	13.2
127	13.4	10.7	16.1

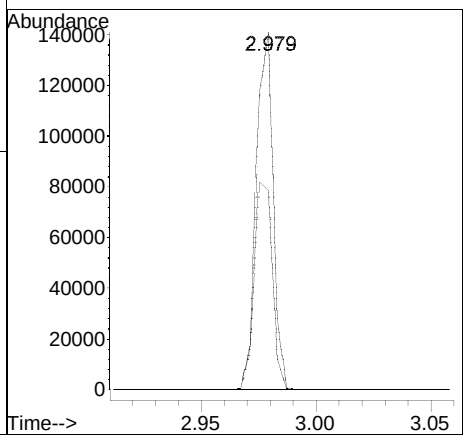


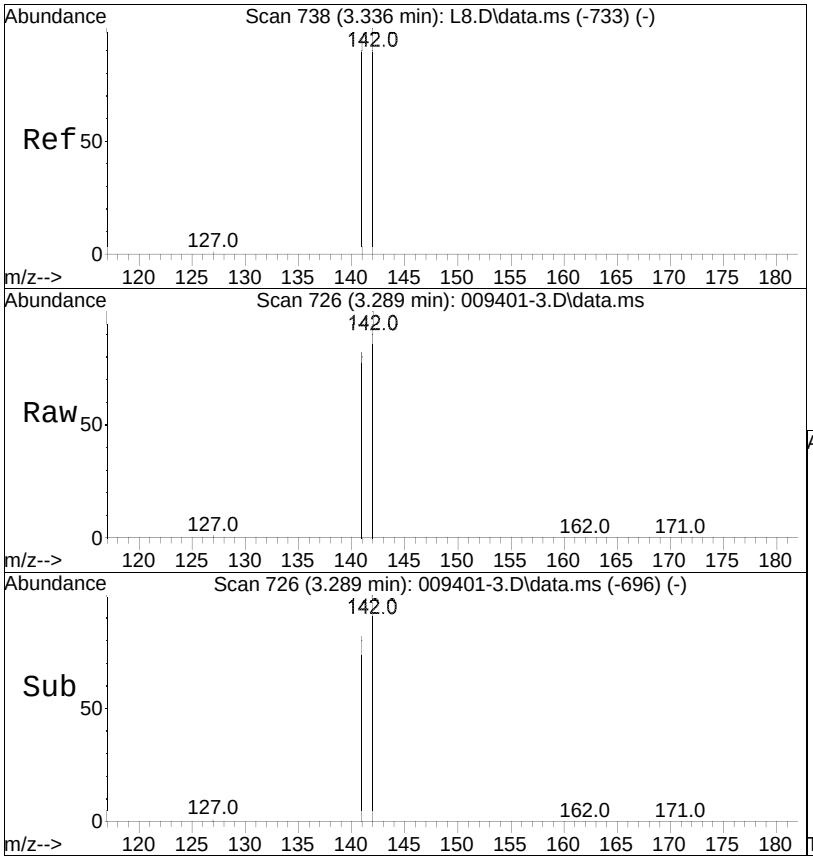


#10
Hexachlorobutadiene
Concen: 1239.97 ng/ml
RT: 2.979 min Scan# 644
Delta R.T. 0.004 min
Lab File: 009401-3.D
Acq: 16 Dec 2024 08:43 am

Tgt Ion:225 Resp: 70635

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.4	75.6

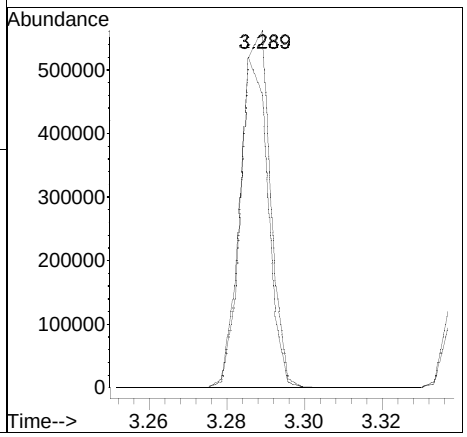


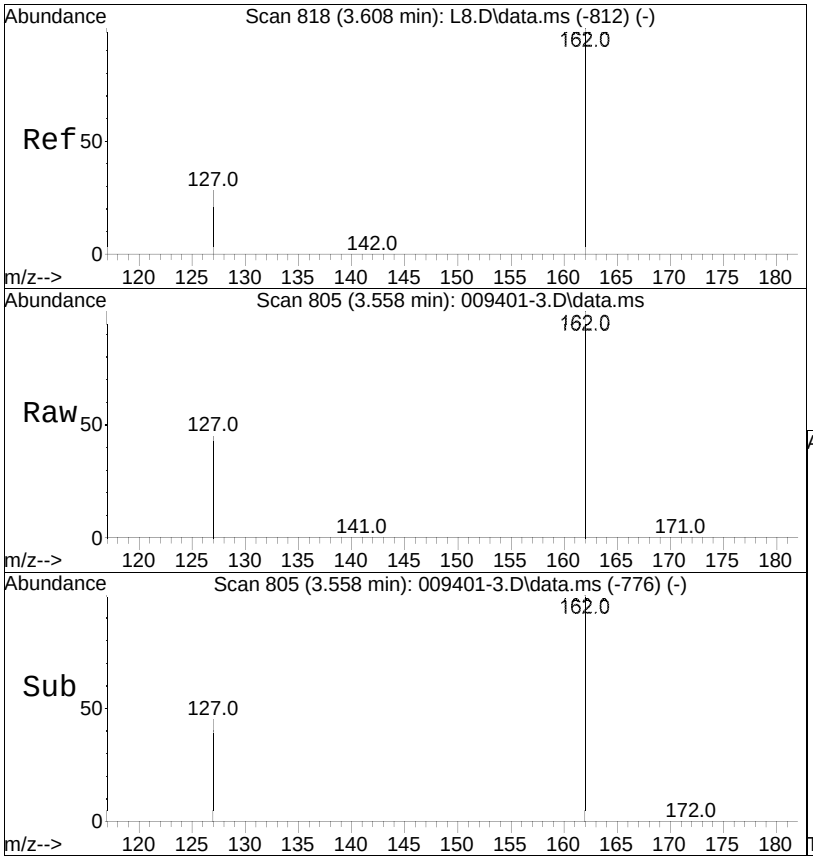


#11
2-Methylnaphthalene
Concen: 1404.87 ng/ml
RT: 3.289 min Scan# 726
Delta R.T. 0.003 min
Lab File: 009401-3.D
Acq: 16 Dec 2024 08:43 am

Tgt Ion:142 Resp: 288807

Ion	Ratio	Lower	Upper
142	100		
141	91.1	71.8	107.8

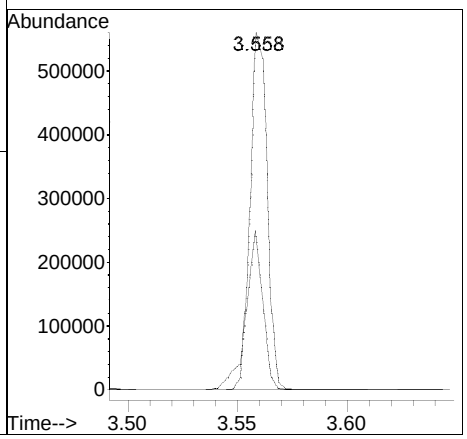


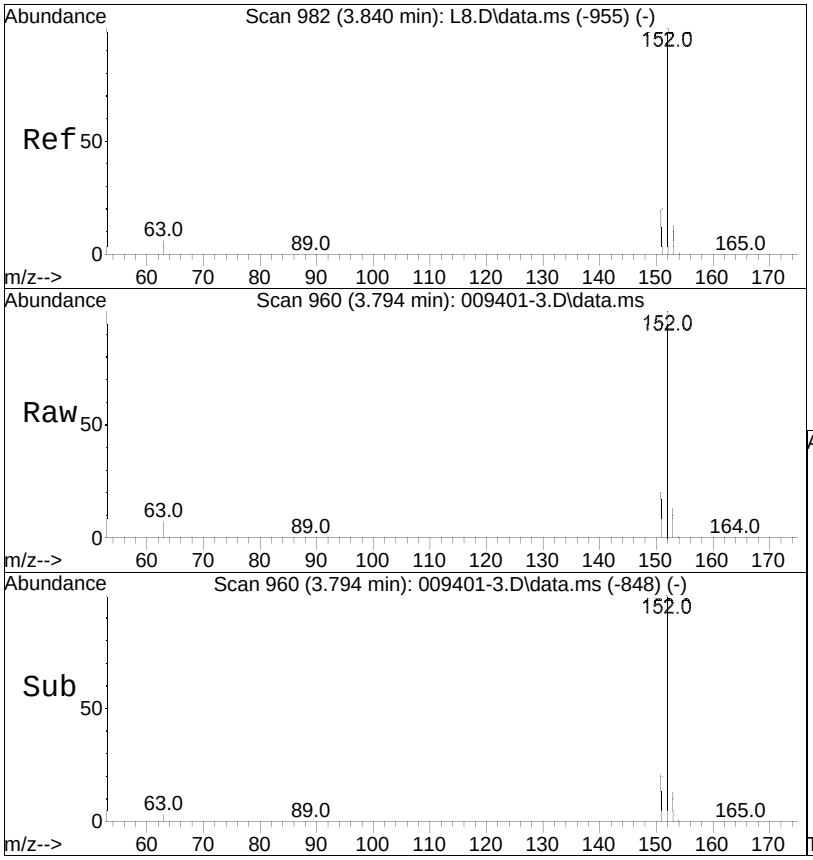


#14
2-Chloronaphthalene
Concen: 1424.79 ng/ml
RT: 3.558 min Scan# 805
Delta R.T. -0.000 min
Lab File: 009401-3.D
Acq: 16 Dec 2024 08:43 am

Tgt Ion:162 Resp: 293974

Ion	Ratio	Lower	Upper
162	100		
127	44.6	26.9	40.3#

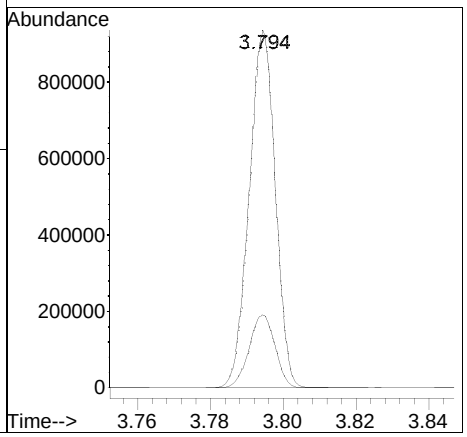


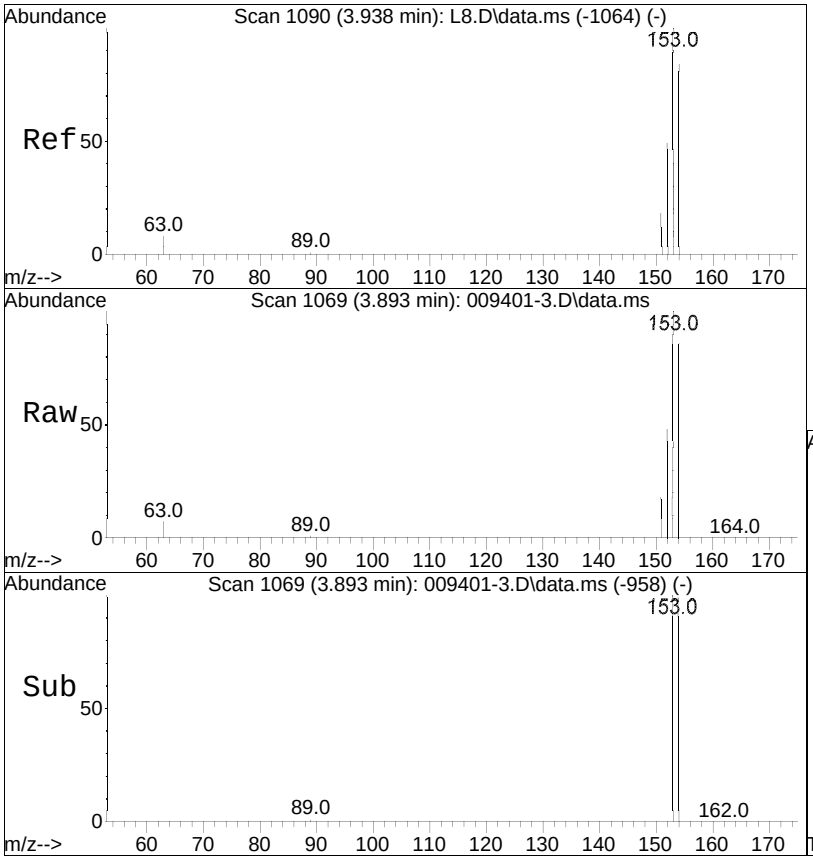


#16
Acenaphthylene
Concen: 1505.17 ng/ml
RT: 3.794 min Scan# 960
Delta R.T. 0.001 min
Lab File: 009401-3.D
Acq: 16 Dec 2024 08:43 am

Tgt Ion:152 Resp: 459742

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.2

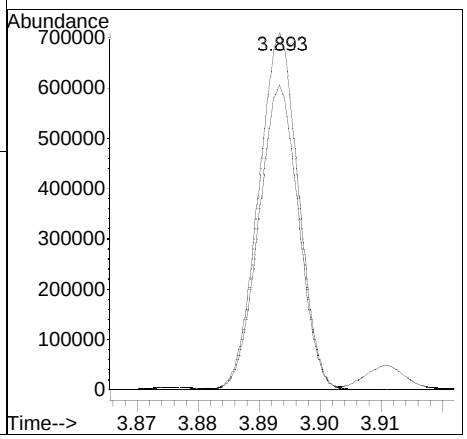


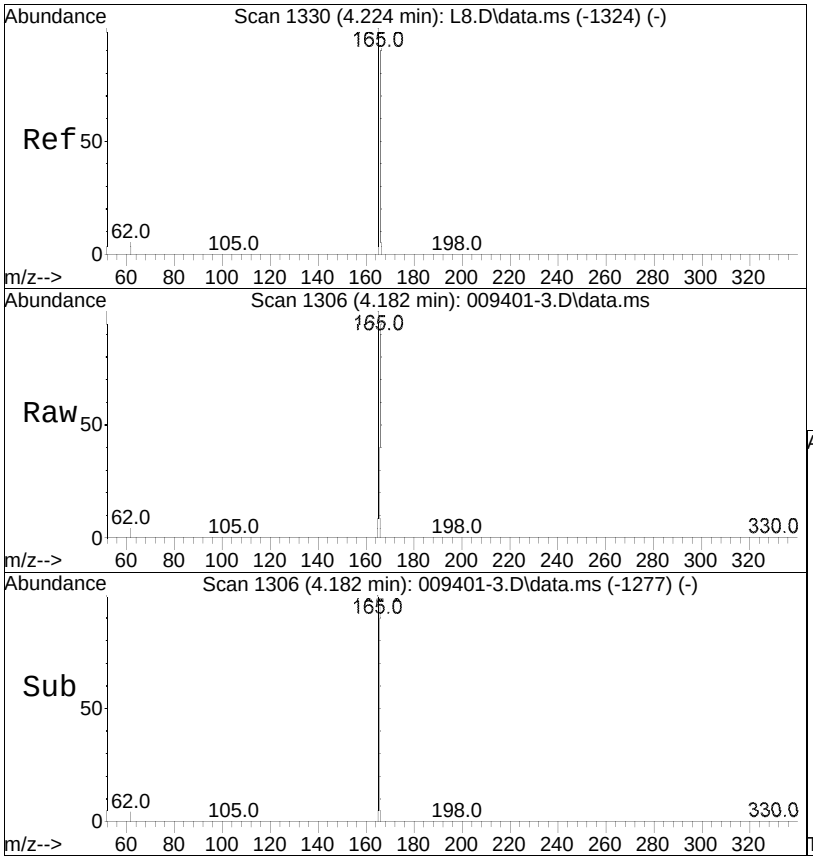


#18
Acenaphthene
Concen: 1451.20 ng/ml
RT: 3.893 min Scan# 1069
Delta R.T. 0.000 min
Lab File: 009401-3.D
Acq: 16 Dec 2024 08:43 am

Tgt Ion:153 Resp: 319517

Ion	Ratio	Lower	Upper
153	100		
154	85.3	68.2	102.4

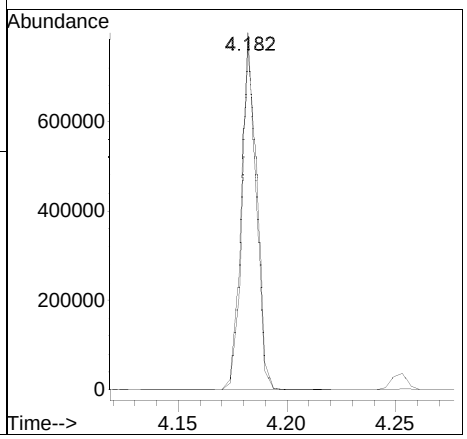


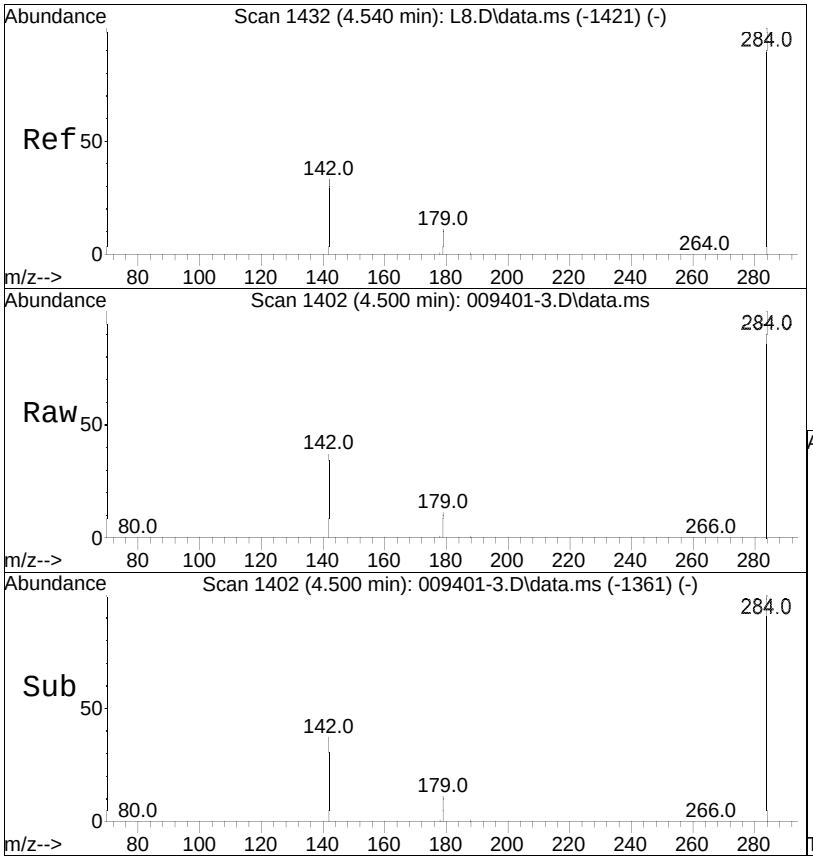


#20
Fluorene
Concen: 1583.93 ng/ml
RT: 4.182 min Scan# 1306
Delta R.T. -0.000 min
Lab File: 009401-3.D
Acq: 16 Dec 2024 08:43 am

Tgt Ion:166 Resp: 371541

Ion	Ratio	Lower	Upper
166	100		
165	100.8	80.5	120.7

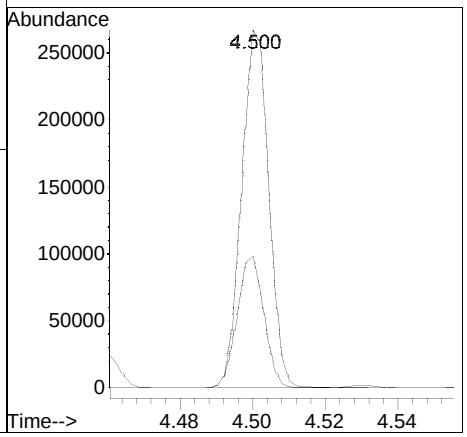


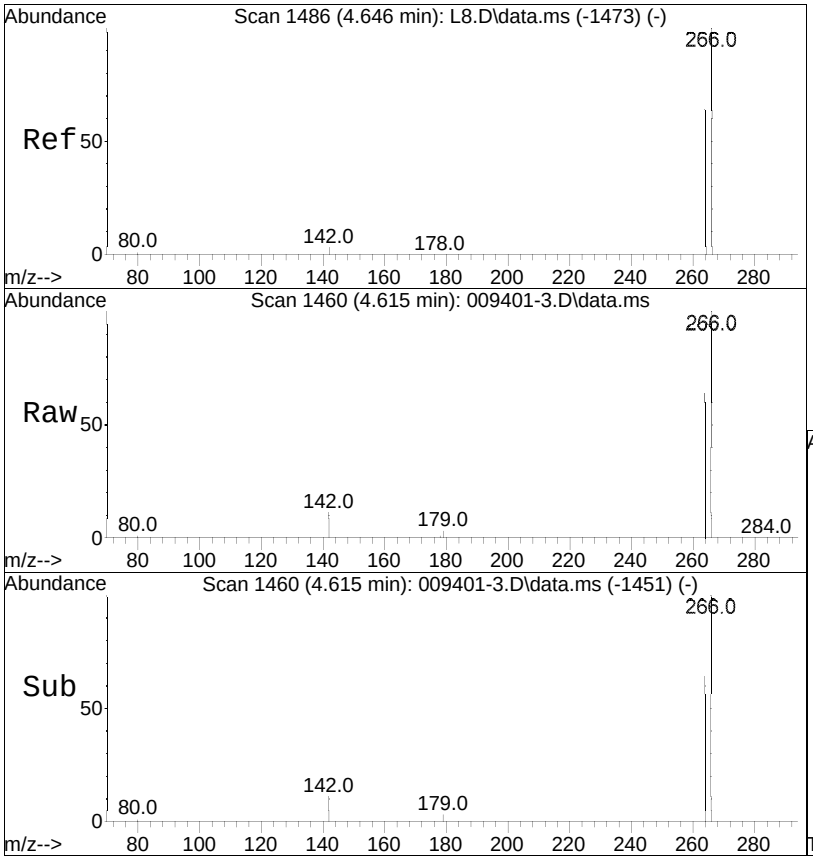


#24
Hexachlorobenzene
Concen: 1535.23 ng/ml
RT: 4.500 min Scan# 1402
Delta R.T. -0.000 min
Lab File: 009401-3.D
Acq: 16 Dec 2024 08:43 am

Tgt Ion:284 Resp: 137359

Ion	Ratio	Lower	Upper
284	100		
142	36.5	28.4	42.6

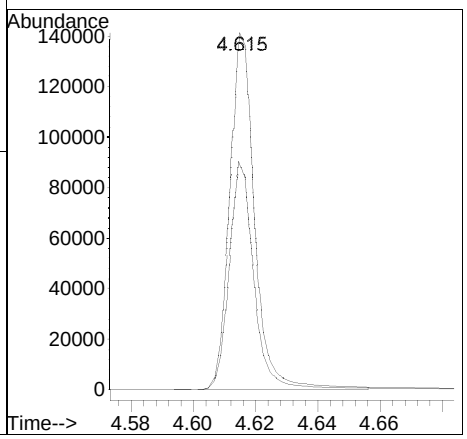


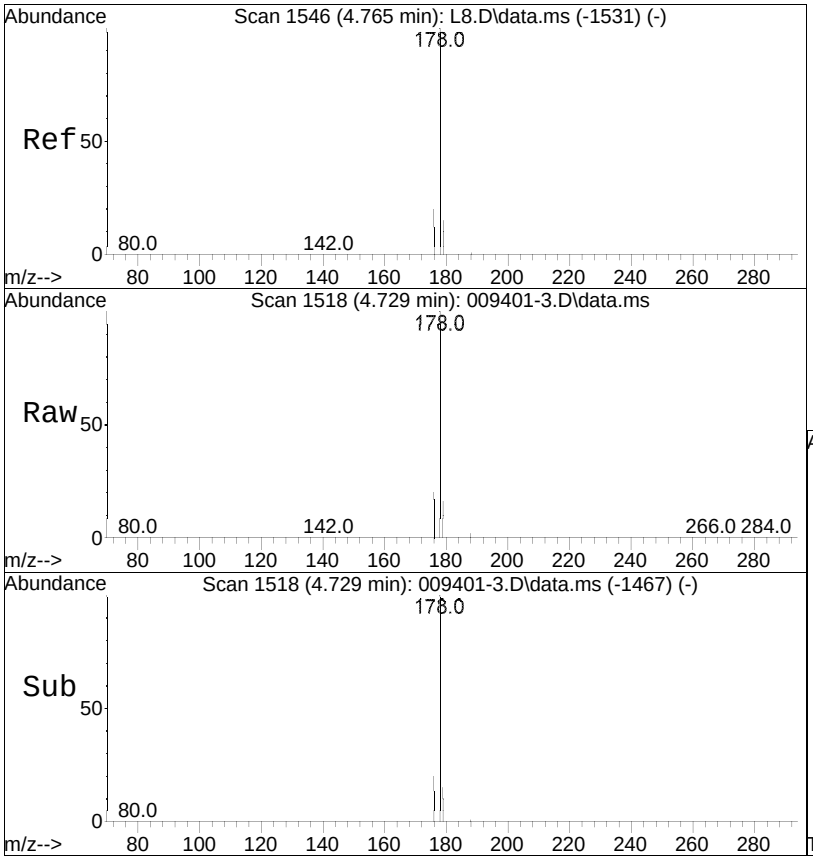


#25
Pentachlorophenol
Concen: 2352.85 ng/ml
RT: 4.615 min Scan# 1460
Delta R.T. -0.002 min
Lab File: 009401-3.D
Acq: 16 Dec 2024 08:43 am

Tgt Ion:266 Resp: 78302

Ion	Ratio	Lower	Upper
266	100		
264	63.6	50.6	76.0

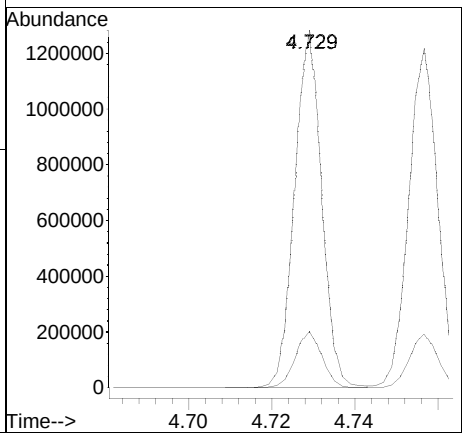


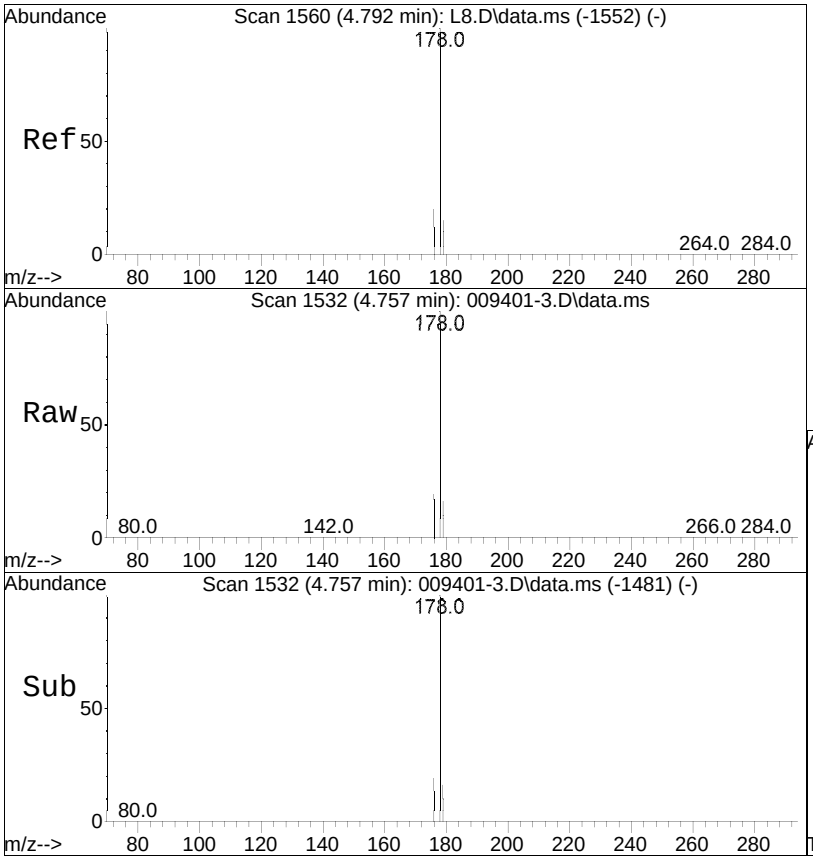


#26
Phenanthrene
Concen: 1574.54 ng/ml
RT: 4.729 min Scan# 1518
Delta R.T. -0.000 min
Lab File: 009401-3.D
Acq: 16 Dec 2024 08:43 am

Tgt Ion:178 Resp: 580870

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.5	18.7

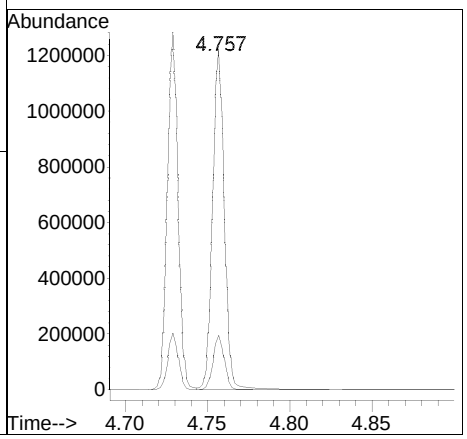


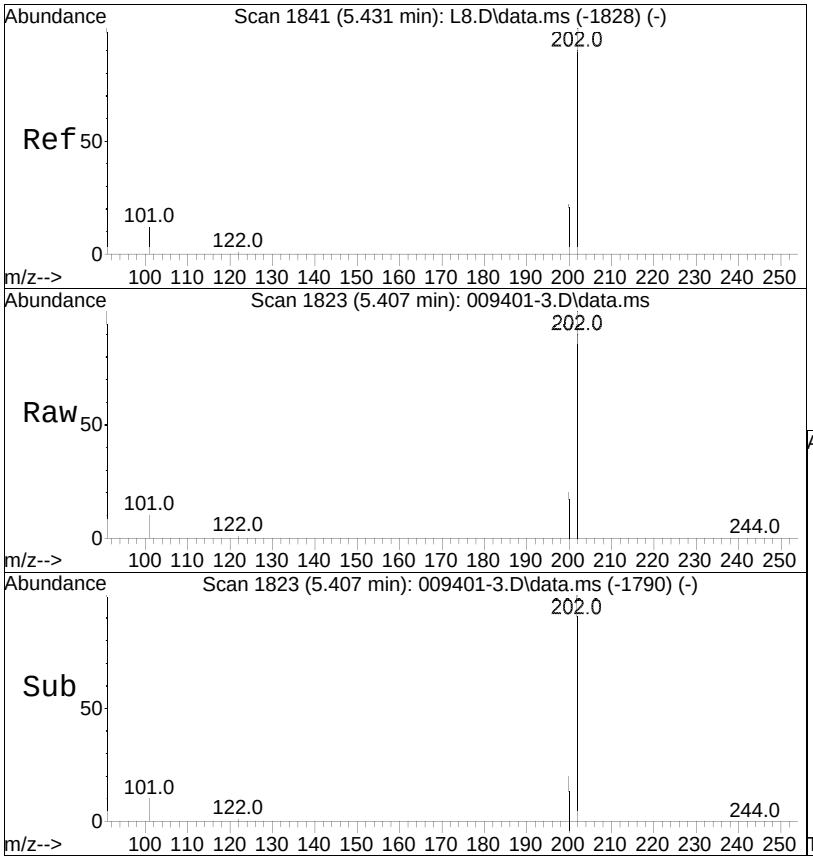


#27
Anthracene
Concen: 1672.89 ng/ml
RT: 4.757 min Scan# 1532
Delta R.T. -0.000 min
Lab File: 009401-3.D
Acq: 16 Dec 2024 08:43 am

Tgt Ion:178 Resp: 605655

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.5	18.7

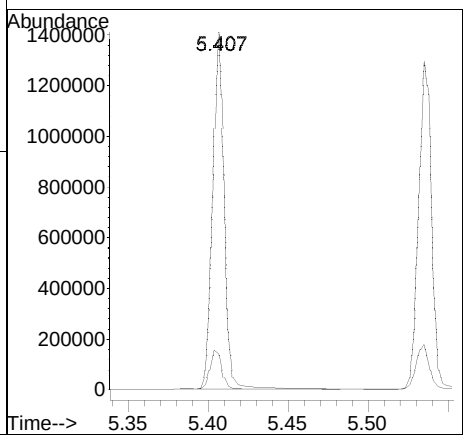


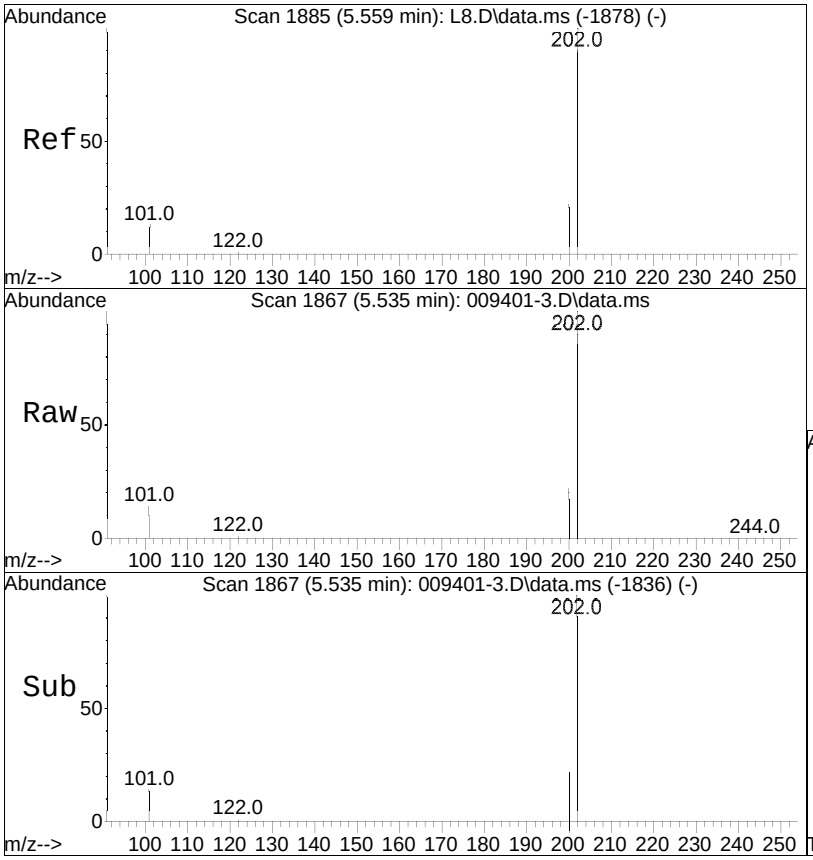


#28
Fluoranthene
Concen: 1720.59 ng/ml
RT: 5.407 min Scan# 1823
Delta R.T. -0.004 min
Lab File: 009401-3.D
Acq: 16 Dec 2024 08:43 am

Tgt Ion:202 Resp: 710534

Ion	Ratio	Lower	Upper
202	100		
101	11.4	6.9	10.3#

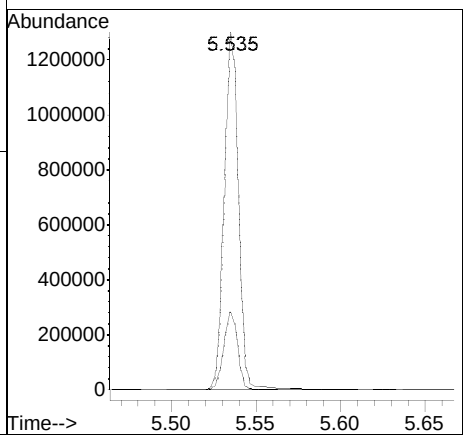


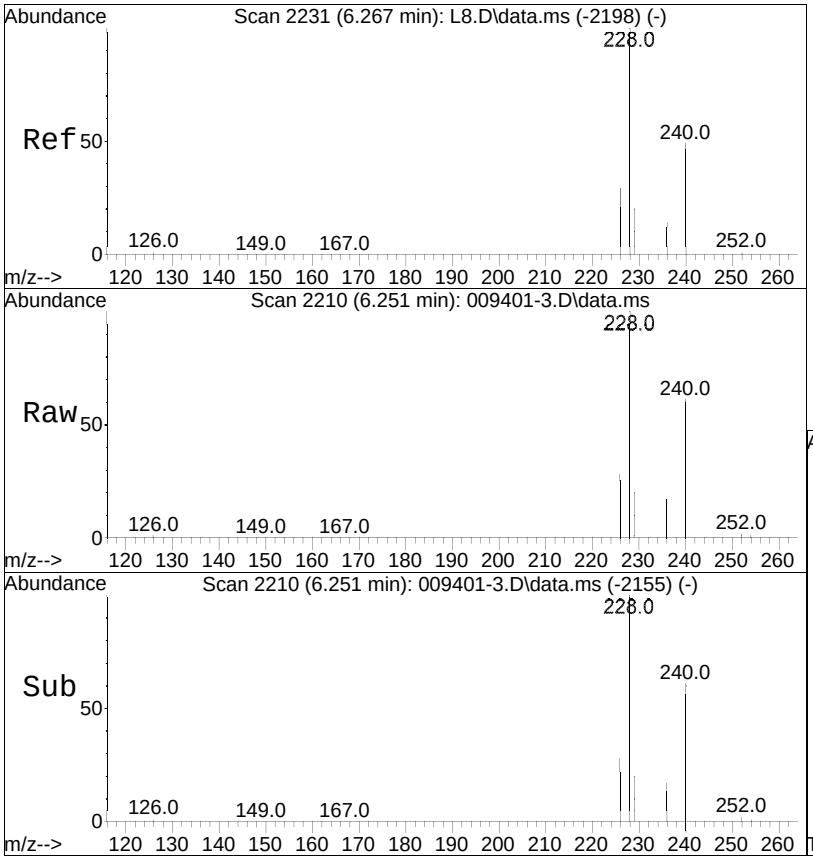


#29
Pyrene
Concen: 1692.77 ng/ml
RT: 5.535 min Scan# 1867
Delta R.T. -0.010 min
Lab File: 009401-3.D
Acq: 16 Dec 2024 08:43 am

Tgt Ion:202 Resp: 742579

Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.4	26.0

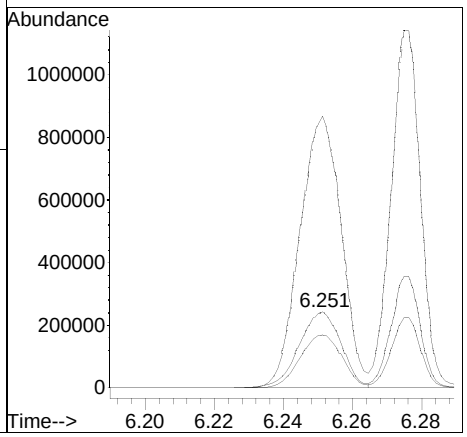


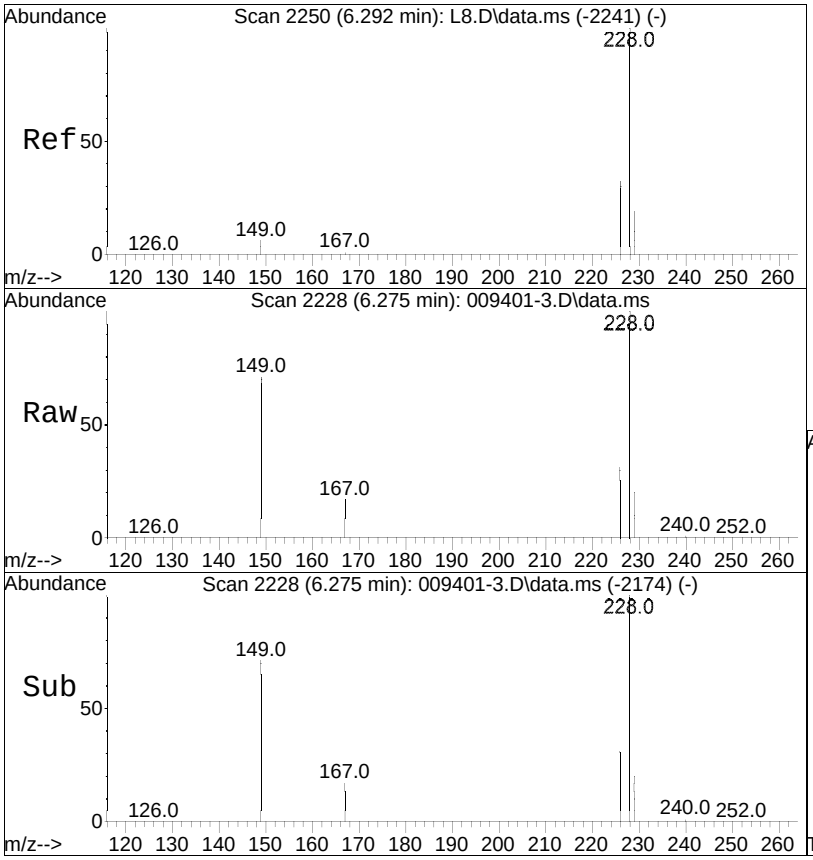


#32
Benzo[a]anthracene
Concen: 1593.21 ng/ml
RT: 6.251 min Scan# 2210
Delta R.T. -0.026 min
Lab File: 009401-3.D
Acq: 16 Dec 2024 08:43 am

Tgt Ion:226 Resp: 204775

Ion	Ratio	Lower	Upper
226	100		
227	0.0	0.0	0.0
228	351.5	284.1	426.1
229	69.2	56.6	85.0

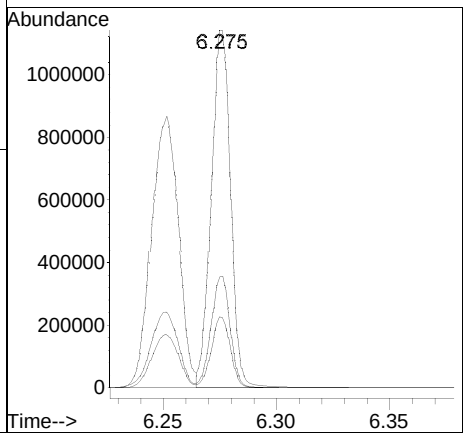


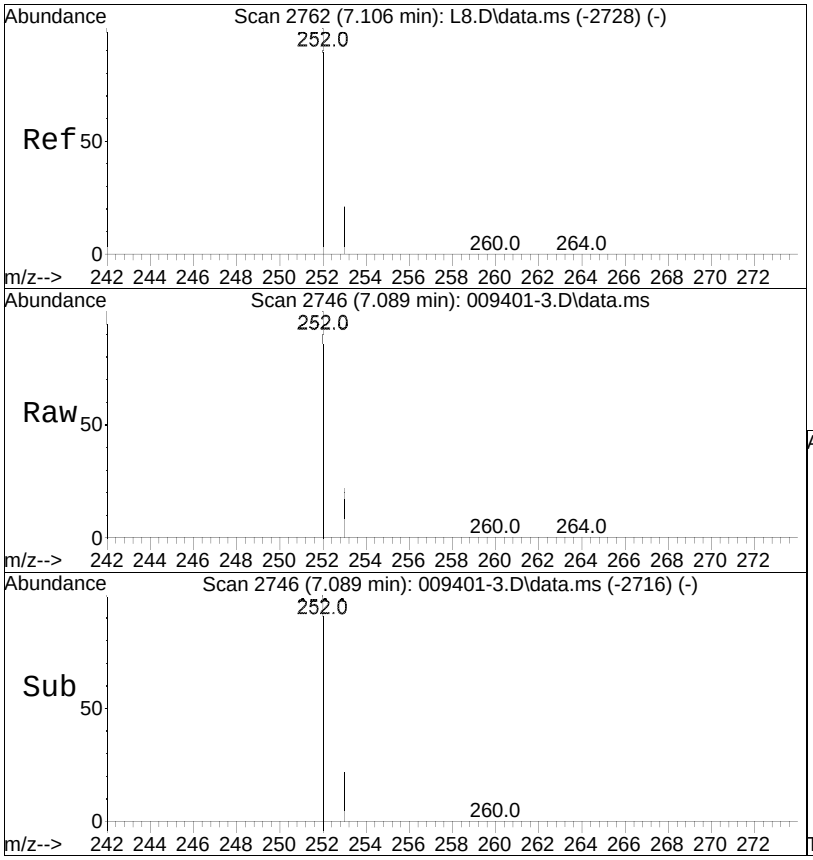


#34
Chrysene
Concen: 1708.08 ng/ml
RT: 6.275 min Scan# 2228
Delta R.T. -0.029 min
Lab File: 009401-3.D
Acq: 16 Dec 2024 08:43 am

Tgt Ion:228 Resp: 676246

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.6	36.8
227	0.0	0.0	0.0
229	19.6	15.4	23.2

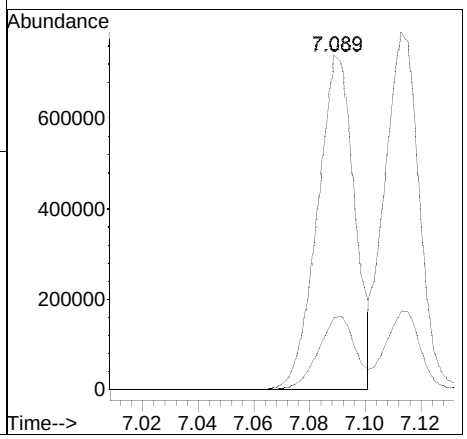


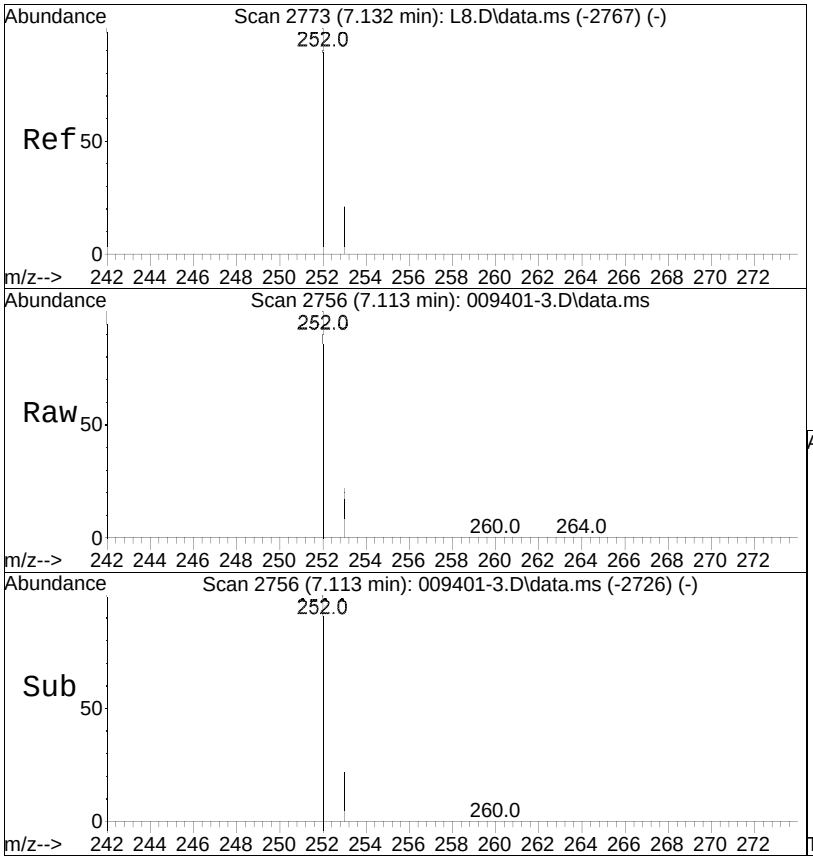


#37
Benzo[b]fluoranthene
Concen: 1973.44 ng/ml
RT: 7.089 min Scan# 2746
Delta R.T. -0.028 min
Lab File: 009401-3.D
Acq: 16 Dec 2024 08:43 am

Tgt Ion:252 Resp: 684033

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.6	26.4

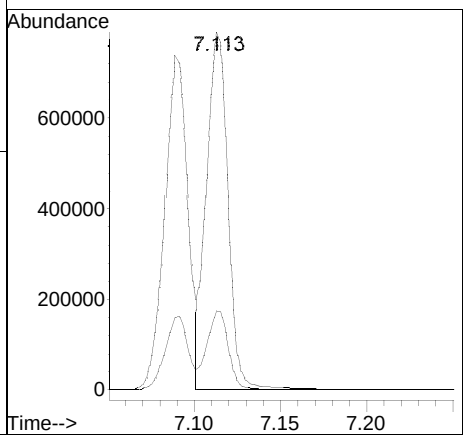


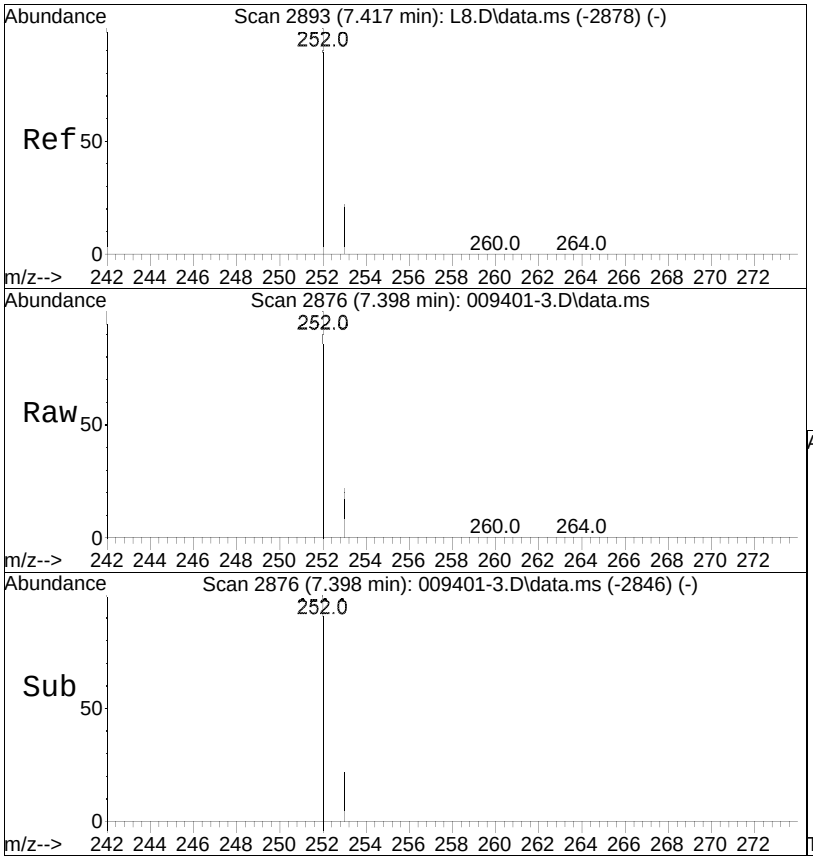


#38
Benzo[k]fluoranthene
Concen: 1863.48 ng/ml
RT: 7.113 min Scan# 2756
Delta R.T. -0.028 min
Lab File: 009401-3.D
Acq: 16 Dec 2024 08:43 am

Tgt Ion:252 Resp: 684845

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.6	26.4

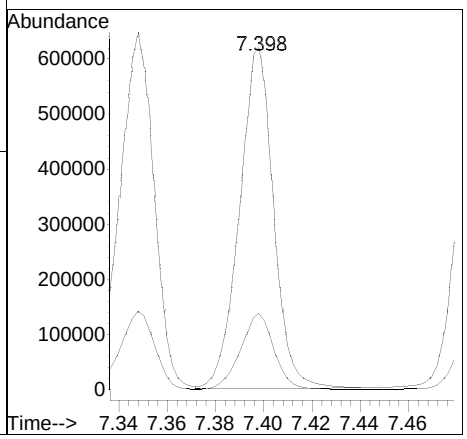


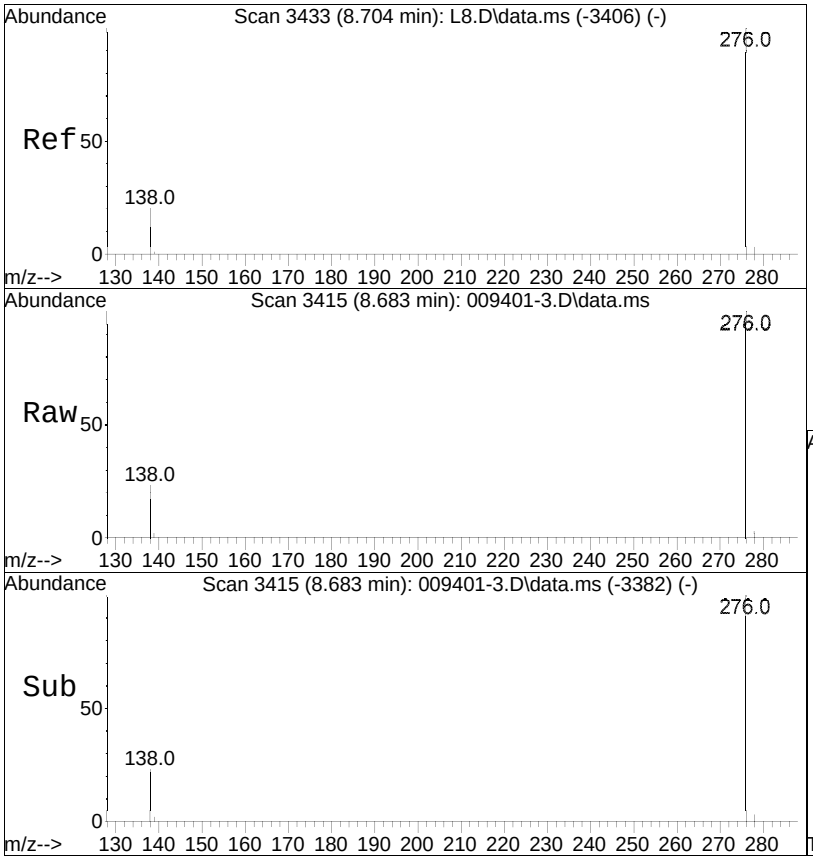


#39
Benzo[a]pyrene
Concen: 1967.75 ng/ml
RT: 7.398 min Scan# 2876
Delta R.T. -0.028 min
Lab File: 009401-3.D
Acq: 16 Dec 2024 08:43 am

Tgt Ion:252 Resp: 602580

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3

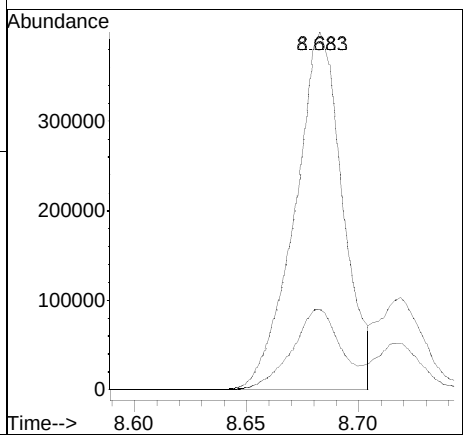


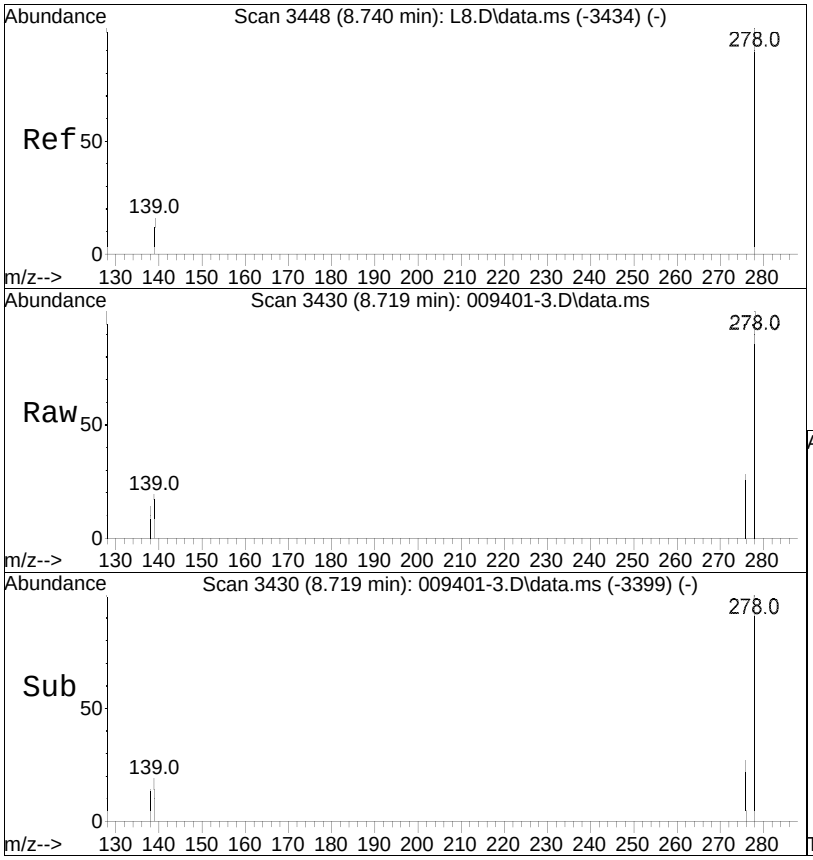


#40
Indeno[1,2,3-cd]pyrene
Concen: 2068.94 ng/ml
RT: 8.683 min Scan# 3415
Delta R.T. -0.022 min
Lab File: 009401-3.D
Acq: 16 Dec 2024 08:43 am

Tgt Ion:276 Resp: 590661

Ion	Ratio	Lower	Upper
276	100		
138	22.5	11.8	17.6#

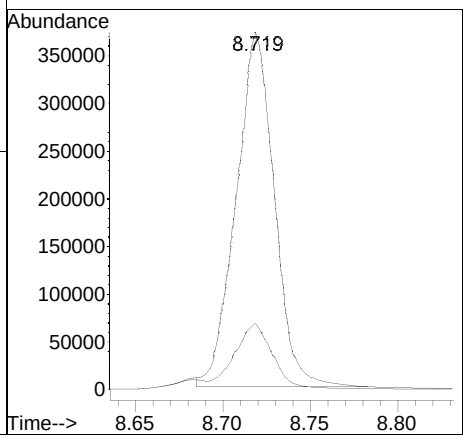


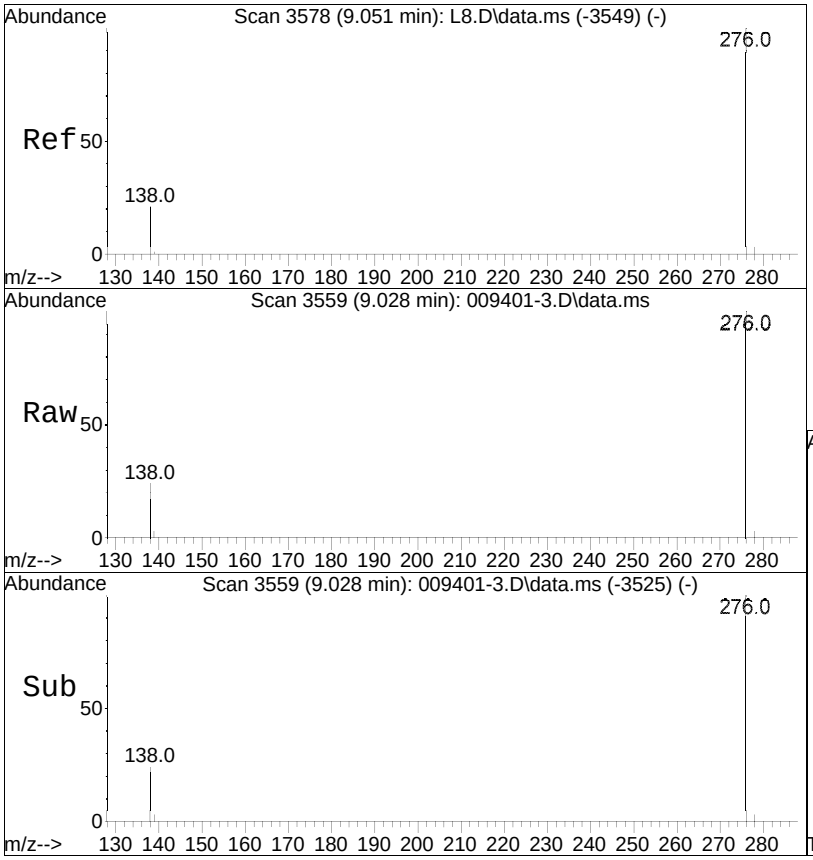


#41
Dibenzo[a,h]anthracene
Concen: 1936.43 ng/ml M6
RT: 8.719 min Scan# 3430
Delta R.T. -0.026 min
Lab File: 009401-3.D
Acq: 16 Dec 2024 08:43 am

Tgt Ion:278 Resp: 562757

Ion	Ratio	Lower	Upper
278	100		
139	18.7	9.8	14.8#

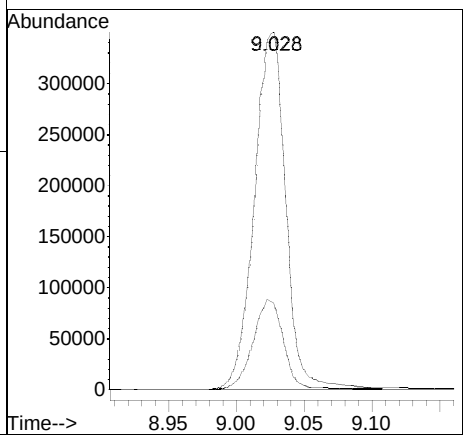




#42
Benzo[g,h,i]perylene
Concen: 1858.20 ng/ml
RT: 9.028 min Scan# 3559
Delta R.T. -0.019 min
Lab File: 009401-3.D
Acq: 16 Dec 2024 08:43 am

Tgt Ion:276 Resp: 556109

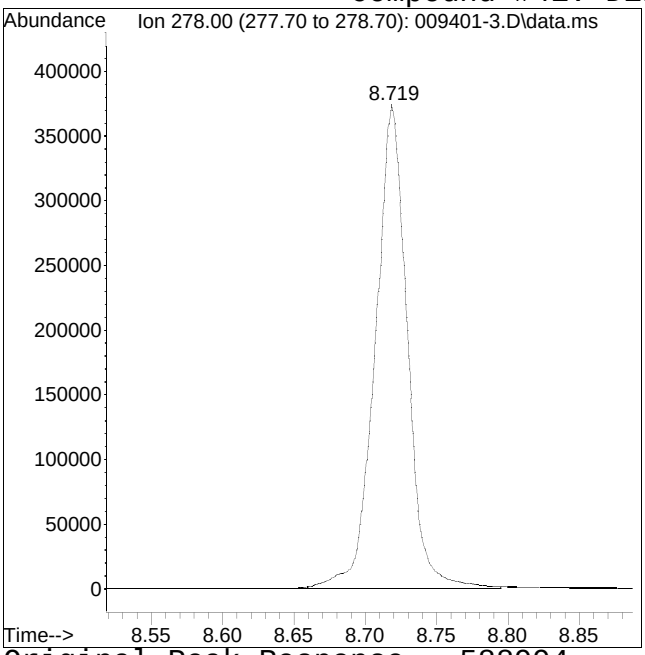
Ion	Ratio	Lower	Upper
276	100		
138	24.9	12.8	19.2#



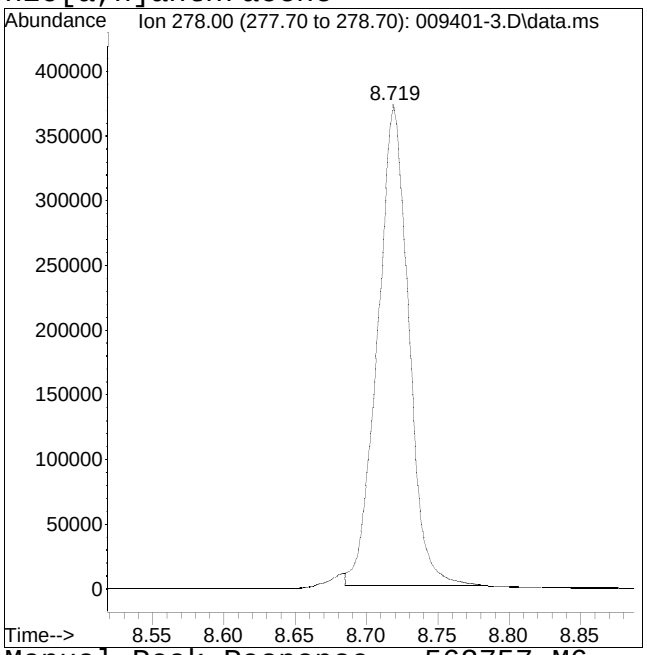
Manual Integration Report

Data Path : I:\8270SIM\SV118\241216RVTQMethod : SIM-RVT_241025sv118.M
Data File : 009401-3.D Operator : SV118:dv
Date Inj'd : 12/16/2024 8:43 am Instrument : SV118
Sample : WG2009401-3,32,,kmh Quant Date : 12/16/2024 8:56 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 588994



Manual Peak Response = 562757 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 009401-4.D
Acq On : 16 Dec 2024 10:41 am
Operator : SV118:dv
Sample : WG2009401-4,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 17 13:07:27 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\241216RVT\ccv1216.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.224	152	242192	4000.000	ng/ml	0.00
Standard Area 1 = 337319			Recovery = 71.80%			
8) Naphthalene-d8	2.893	136	1116019	4000.000	ng/ml	0.00
Standard Area 1 = 1155411			Recovery = 96.59%			
17) Acenaphthene-d10	3.876	164	621841	4000.000	ng/ml	0.00
Standard Area 1 = 643247			Recovery = 96.67%			
22) Phenanthrene-d10	4.717	188	1231627	4000.000	ng/ml	# 0.00
Standard Area 1 = 1305613			Recovery = 94.33%			
31) Chrysene-d12	6.259	240	1184886	4000.000	ng/ml	-0.03
Standard Area 1 = 1642453			Recovery = 72.14%			
36) Perylene-d12	7.464	264	1215401	4000.000	ng/ml	-0.03
Standard Area 1 = 1677056			Recovery = 72.47%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.643	112	80042	1168.921	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 58.45%			
3) Phenol-d6	2.040	99	66001	784.399	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 39.22%			
7) Nitrobenzene-d5	2.506	82	59762	1100.115	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 110.01%			
13) 2-Fluorobiphenyl	3.494	172	159559	743.567	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 74.36%			
21) 2,4,6-Tribromophenol	4.324	330	62422	2178.484	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 108.92%			
30) 4-Terphenyl-d14	5.628	244	219174	869.739	ng/ml	-0.01
Spiked Amount 1000.000	Range 30 - 130		Recovery = 86.97%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.084	93	104471	1457.086	ng/ml	96
6) Hexachloroethane	2.482	117	39330	1294.332	ng/ml	93
9) Naphthalene	2.905	128	363862	1238.552	ng/ml	100
10) Hexachlorobutadiene	2.976	225	59421	1139.590	ng/ml	100
11) 2-Methylnaphthalene	3.286	142	259985	1381.639	ng/ml	98
14) 2-Chloronaphthalene	3.559	162	268100	1419.568	ng/ml#	81
16) Acenaphthylene	3.795	152	422295	1510.450	ng/ml	100
18) Acenaphthene	3.895	153	293646	1444.505	ng/ml	100
20) Fluorene	4.186	166	345269	1594.219	ng/ml	100
24) Hexachlorobenzene	4.502	284	125435	1546.902	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 009401-4.D
Acq On : 16 Dec 2024 10:41 am
Operator : SV118:dv
Sample : WG2009401-4,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 17 13:07:27 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\241216RVT\ccv1216.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	4.616	266	66958	2219.989	ng/ml	100
26) Phenanthrene	4.729	178	531310	1589.095	ng/ml	100
27) Anthracene	4.758	178	552875	1684.980	ng/ml	99
28) Fluoranthene	5.407	202	635014M3	1696.692	ng/ml	
29) Pyrene	5.535	202	669208	1683.232	ng/ml	100
32) Benzo[a]anthracene	6.250	226	183374	1580.286	ng/ml#	98
34) Chrysene	6.273	228	606330	1696.344	ng/ml#	100
37) Benzo[b]fluoranthene	7.087	252	612247	1953.880	ng/ml	100
38) Benzo[k]fluoranthene	7.110	252	608903	1832.756	ng/ml	100
39) Benzo[a]pyrene	7.395	252	540543	1952.580	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.682	276	535849	2076.231	ng/ml#	81
41) Dibenzo[a,h]anthracene	8.716	278	502486M6	1912.617	ng/ml	
42) Benzo[g,h,i]perylene	9.025	276	506454	1871.960	ng/ml#	80

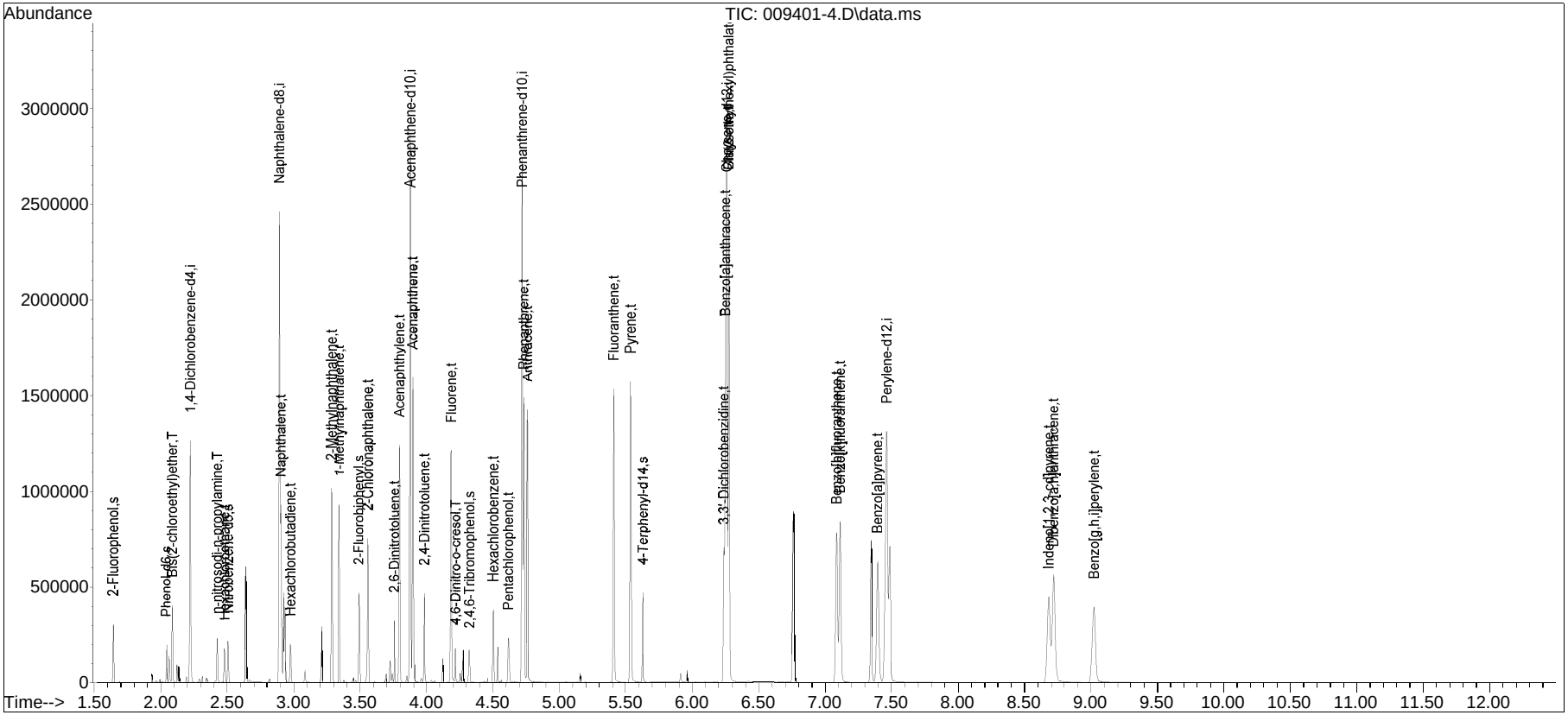
(#) = qualifier out of range (m) = manual integration (+) = signals summed

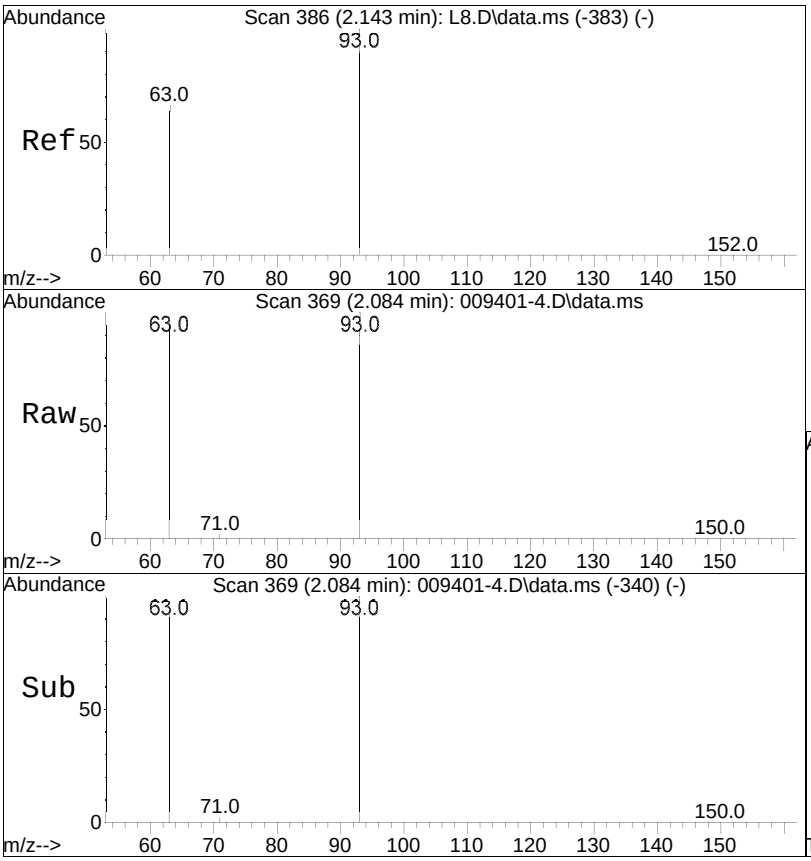
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 009401-4.D
Acq On : 16 Dec 2024 10:41 am
Operator : SV118:dv
Sample : WG2009401-4,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 17 13:07:27 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv1216.D•

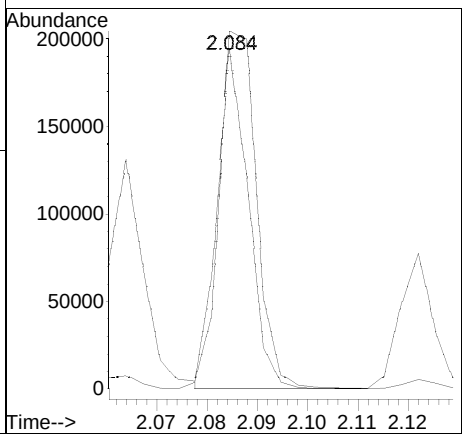


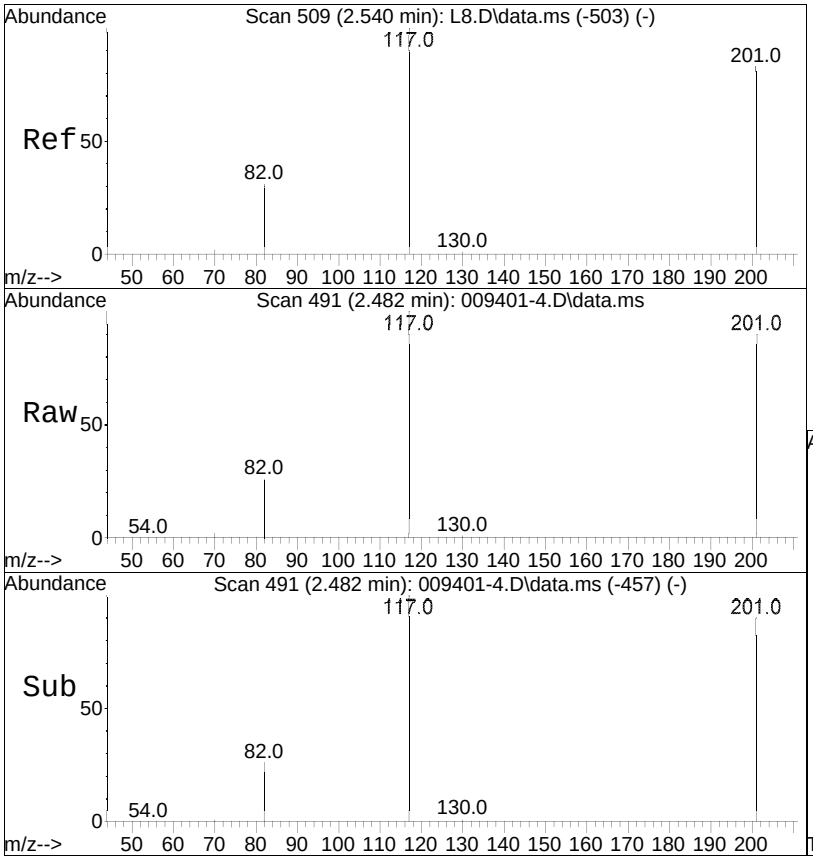


#4
Bis(2-chloroethyl)ether
Concen: 1457.09 ng/ml
RT: 2.084 min Scan# 369
Delta R.T. -0.000 min
Lab File: 009401-4.D
Acq: 16 Dec 2024 10:41 am

Tgt Ion: 93 Resp: 104471

Ion	Ratio	Lower	Upper
93	100		
63	81.0	68.1	102.1

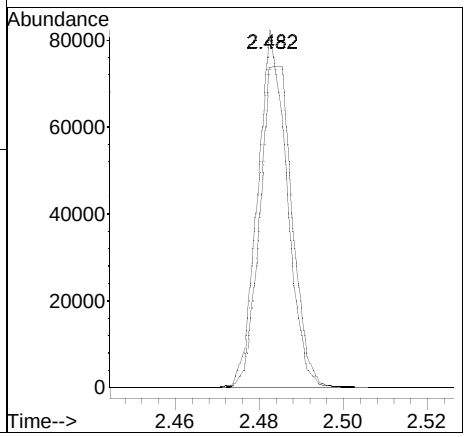


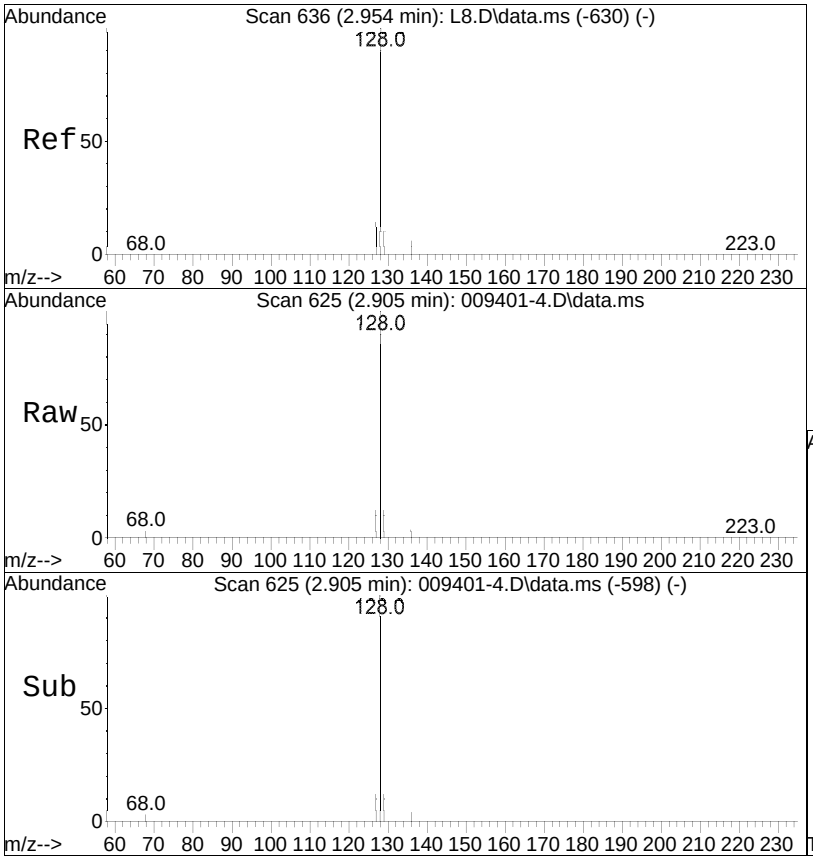


#6
Hexachloroethane
Concen: 1294.33 ng/ml
RT: 2.482 min Scan# 491
Delta R.T. -0.000 min
Lab File: 009401-4.D
Acq: 16 Dec 2024 10:41 am

Tgt Ion:117 Resp: 39330

Ion	Ratio	Lower	Upper
117	100		
201	99.3	84.9	127.3

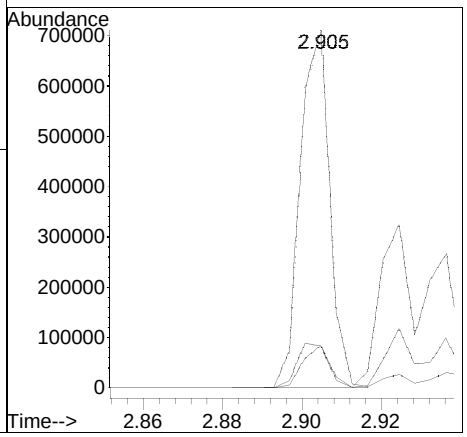


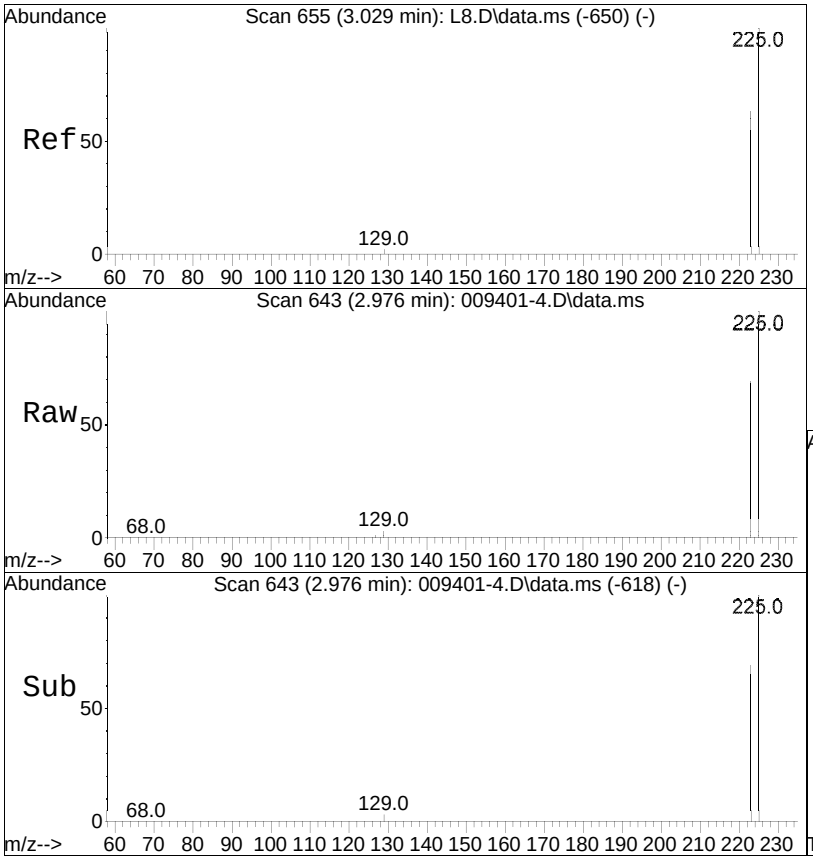


#9
Naphthalene
Concen: 1238.55 ng/ml
RT: 2.905 min Scan# 625
Delta R.T. 0.004 min
Lab File: 009401-4.D
Acq: 16 Dec 2024 10:41 am

Tgt Ion:128 Resp: 363862

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	13.2	10.7	16.1

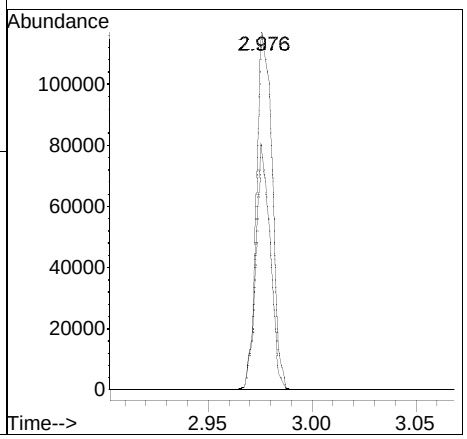


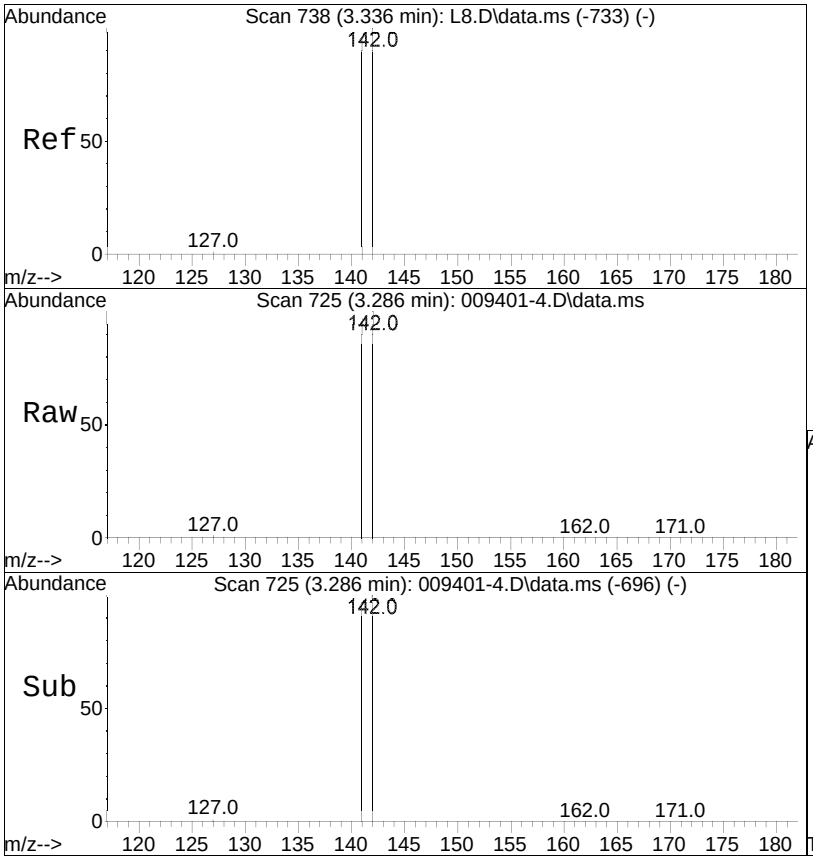


#10
Hexachlorobutadiene
Concen: 1139.59 ng/ml
RT: 2.976 min Scan# 643
Delta R.T. -0.000 min
Lab File: 009401-4.D
Acq: 16 Dec 2024 10:41 am

Tgt Ion:225 Resp: 59421

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.4	75.6

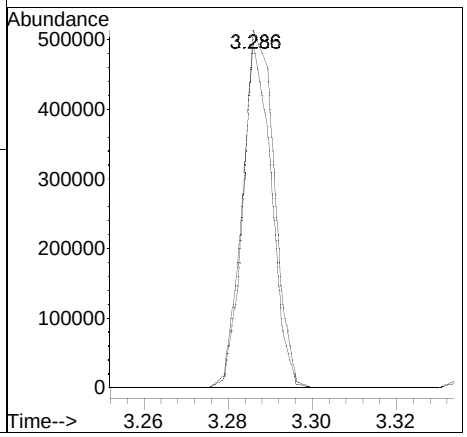


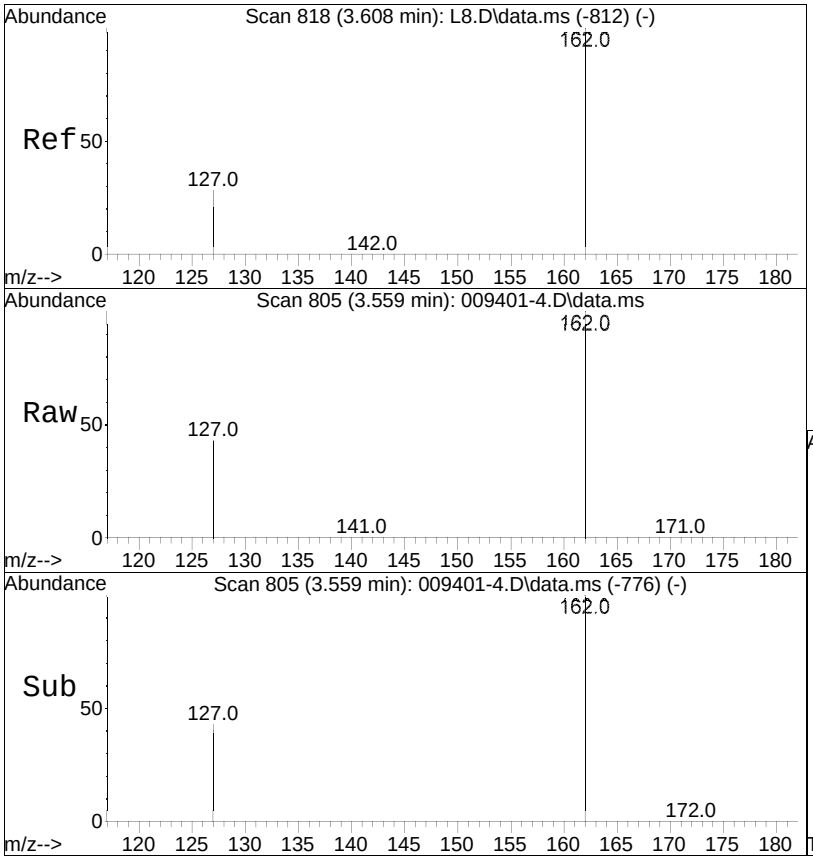


#11
2-Methylnaphthalene
Concen: 1381.64 ng/ml
RT: 3.286 min Scan# 725
Delta R.T. -0.000 min
Lab File: 009401-4.D
Acq: 16 Dec 2024 10:41 am

Tgt Ion:142 Resp: 259985

Ion	Ratio	Lower	Upper
142	100		
141	91.4	71.8	107.8

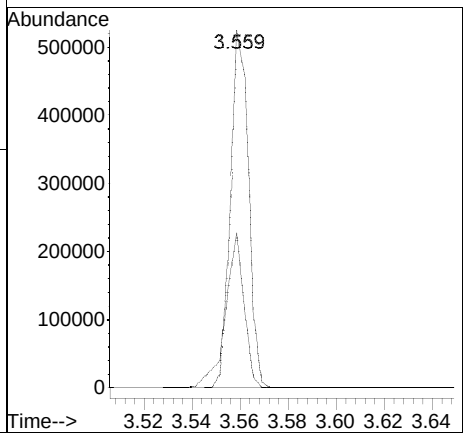


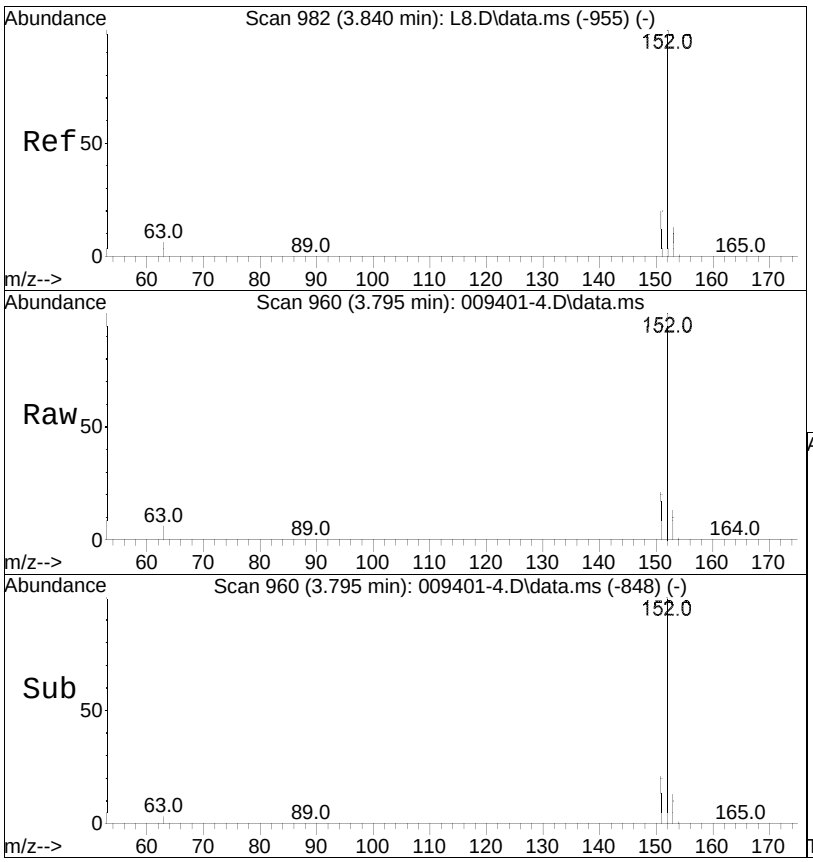


#14
2-Chloronaphthalene
Concen: 1419.57 ng/ml
RT: 3.559 min Scan# 805
Delta R.T. -0.000 min
Lab File: 009401-4.D
Acq: 16 Dec 2024 10:41 am

Tgt Ion:162 Resp: 268100

Ion	Ratio	Lower	Upper
162	100		
127	44.6	26.9	40.3#

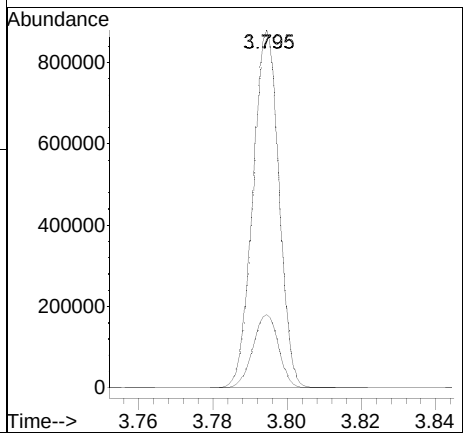


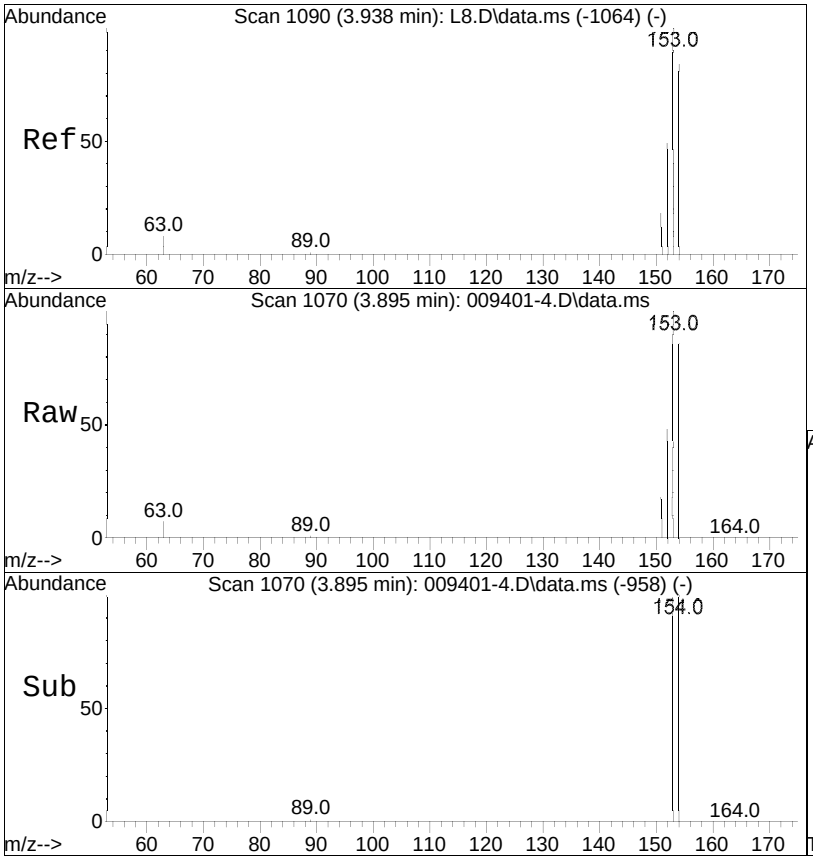


#16
Acenaphthylene
Concen: 1510.45 ng/ml
RT: 3.795 min Scan# 960
Delta R.T. 0.002 min
Lab File: 009401-4.D
Acq: 16 Dec 2024 10:41 am

Tgt Ion:152 Resp: 422295

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.2

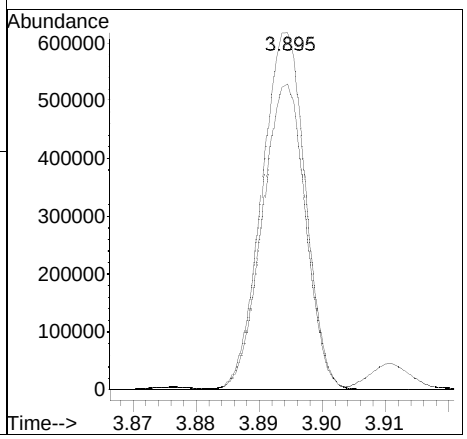


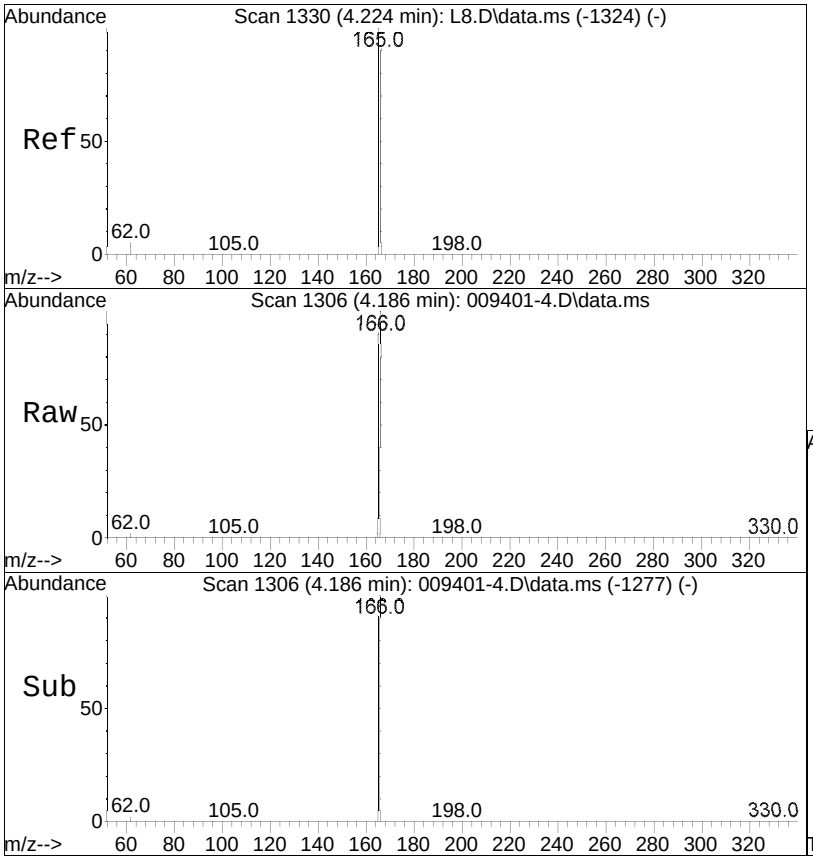


#18
Acenaphthene
Concen: 1444.51 ng/ml
RT: 3.895 min Scan# 1070
Delta R.T. 0.002 min
Lab File: 009401-4.D
Acq: 16 Dec 2024 10:41 am

Tgt Ion:153 Resp: 293646

Ion	Ratio	Lower	Upper
153	100		
154	85.1	68.2	102.4

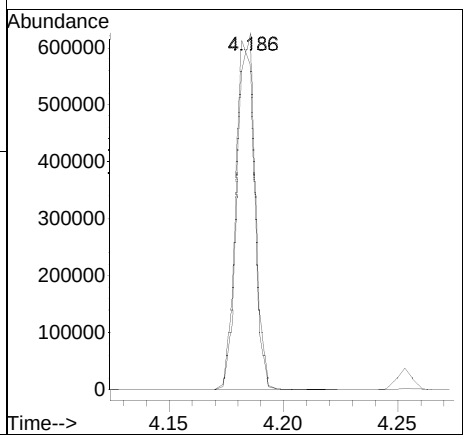


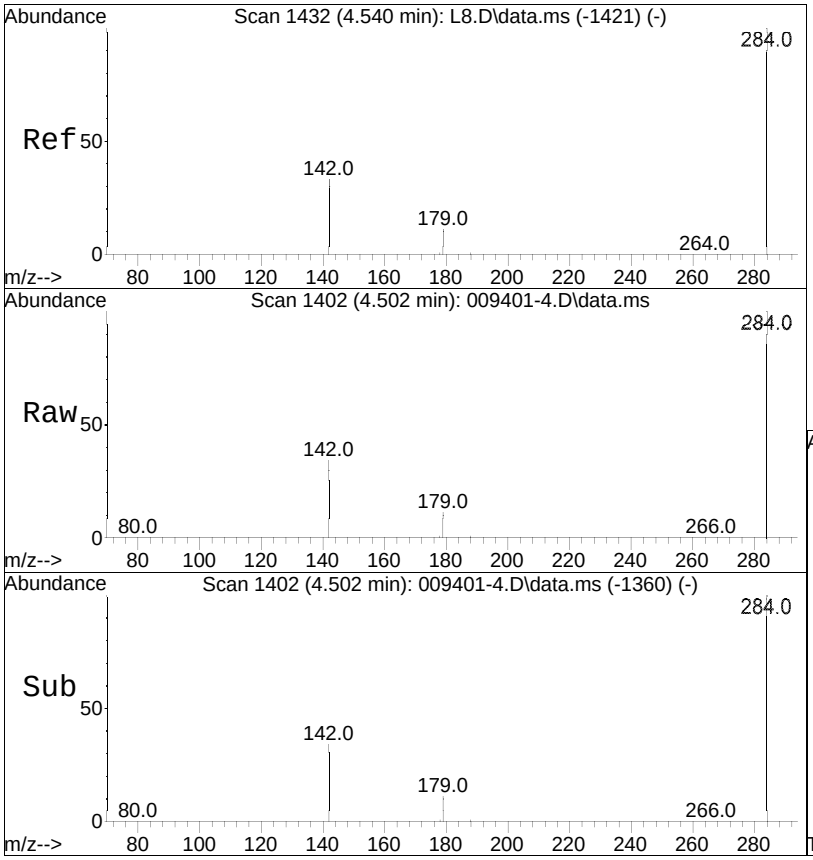


#20
Fluorene
Concen: 1594.22 ng/ml
RT: 4.186 min Scan# 1306
Delta R.T. 0.003 min
Lab File: 009401-4.D
Acq: 16 Dec 2024 10:41 am

Tgt Ion:166 Resp: 345269

Ion	Ratio	Lower	Upper
166	100		
165	100.5	80.5	120.7

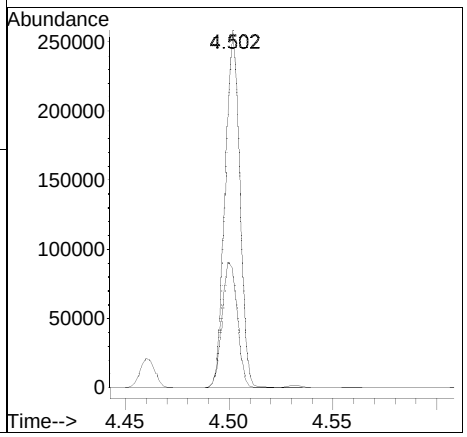


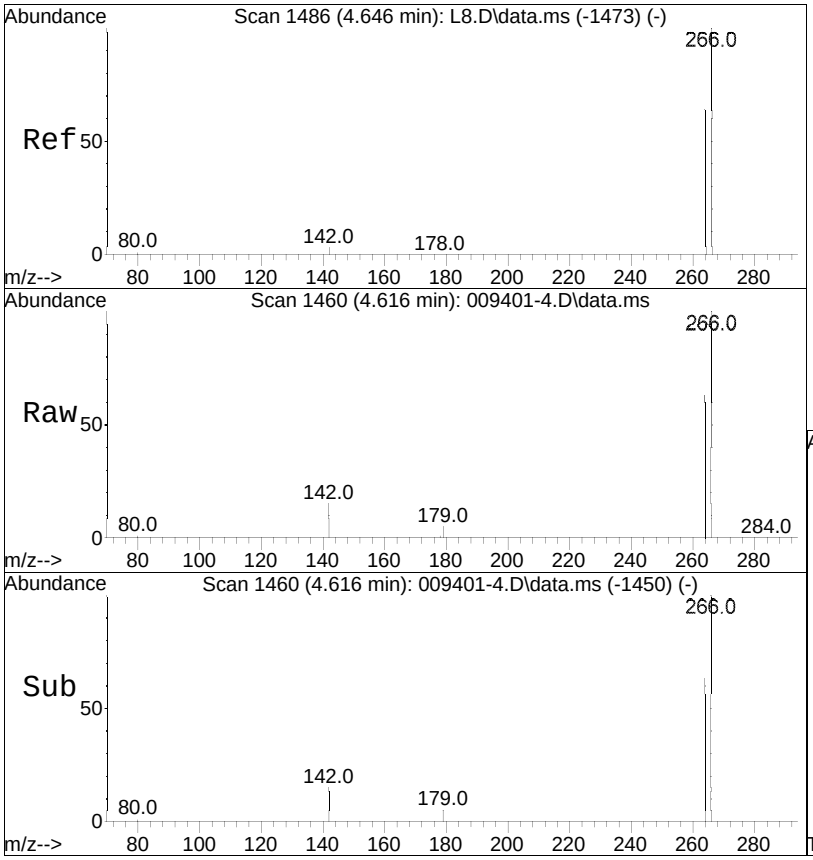


#24
Hexachlorobenzene
Concen: 1546.90 ng/ml
RT: 4.502 min Scan# 1402
Delta R.T. 0.001 min
Lab File: 009401-4.D
Acq: 16 Dec 2024 10:41 am

Tgt Ion:284 Resp: 125435

Ion	Ratio	Lower	Upper
284	100		
142	36.6	28.4	42.6

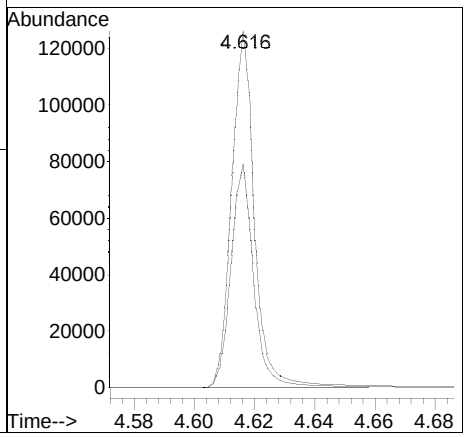


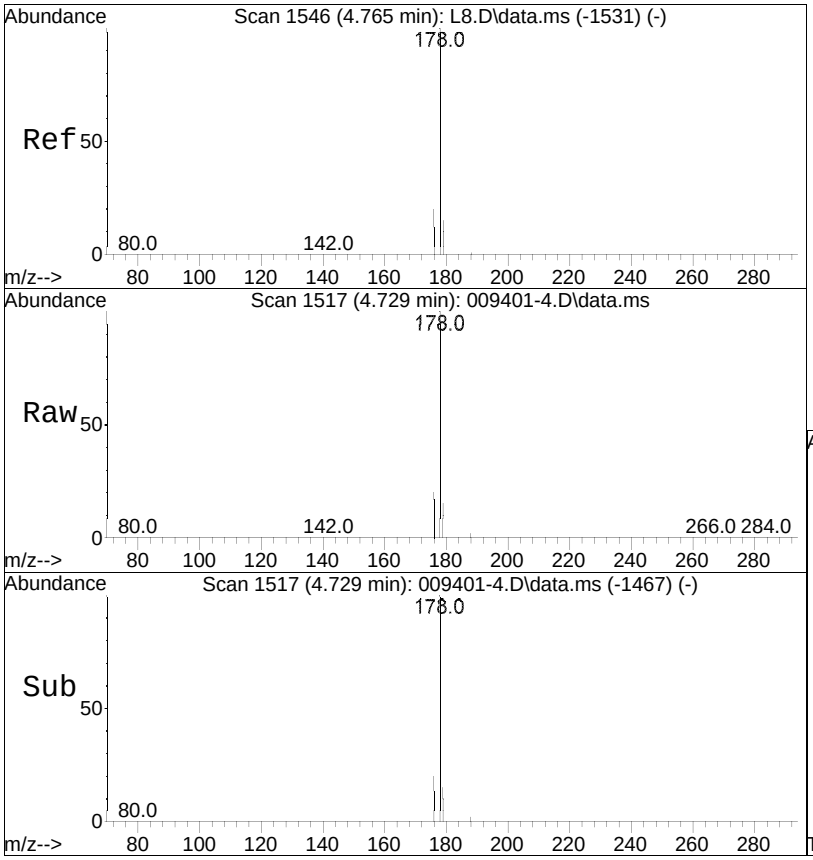


#25
Pentachlorophenol
Concen: 2219.99 ng/ml
RT: 4.616 min Scan# 1460
Delta R.T. -0.001 min
Lab File: 009401-4.D
Acq: 16 Dec 2024 10:41 am

Tgt Ion:266 Resp: 66958

Ion	Ratio	Lower	Upper
266	100		
264	63.0	50.6	76.0

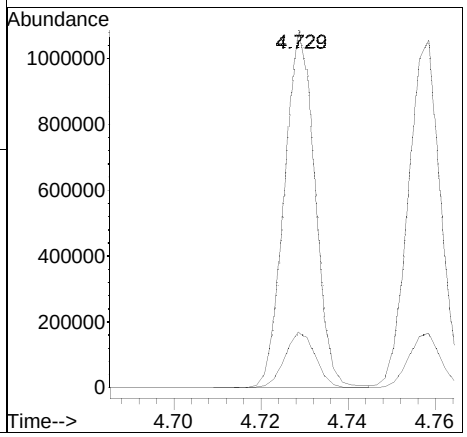


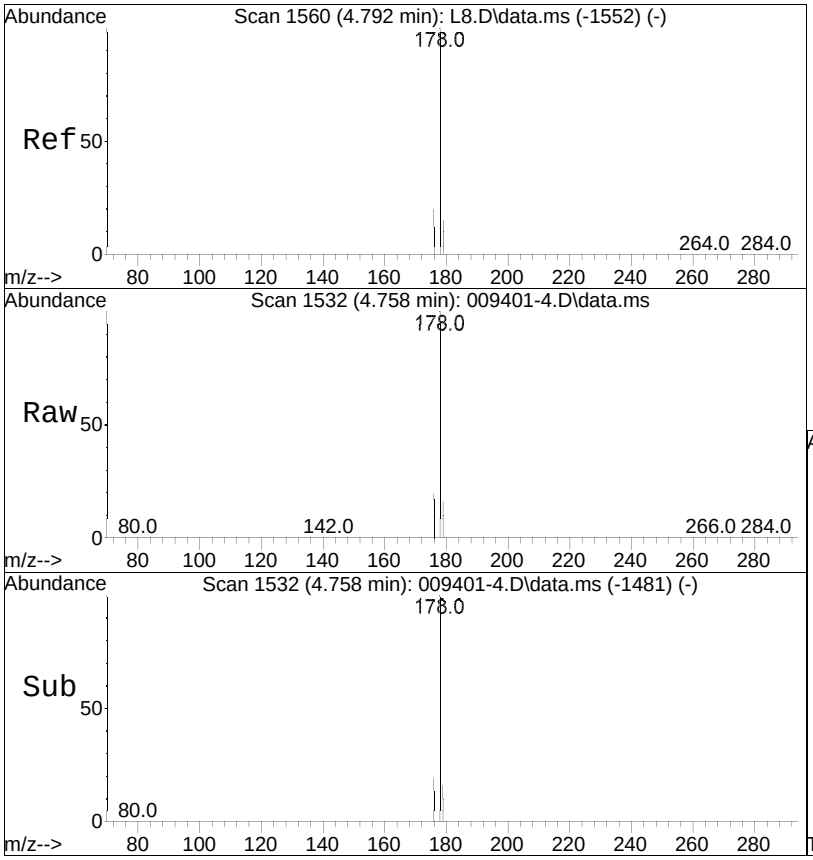


#26
Phenanthrene
Concen: 1589.09 ng/ml
RT: 4.729 min Scan# 1517
Delta R.T. -0.001 min
Lab File: 009401-4.D
Acq: 16 Dec 2024 10:41 am

Tgt Ion:178 Resp: 531310

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.5	18.7

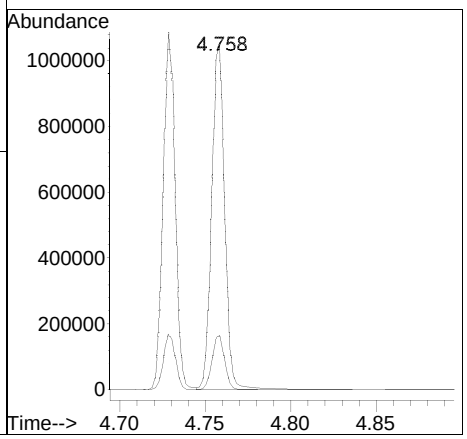


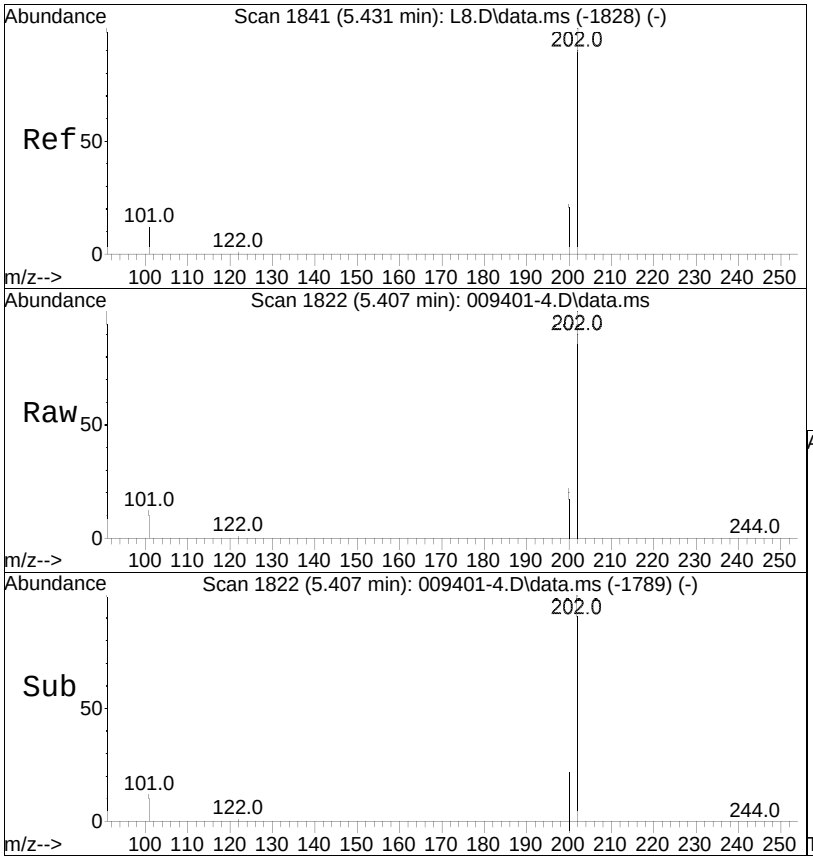


#27
Anthracene
Concen: 1684.98 ng/ml
RT: 4.758 min Scan# 1532
Delta R.T. 0.001 min
Lab File: 009401-4.D
Acq: 16 Dec 2024 10:41 am

Tgt Ion:178 Resp: 552875

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.5	18.7

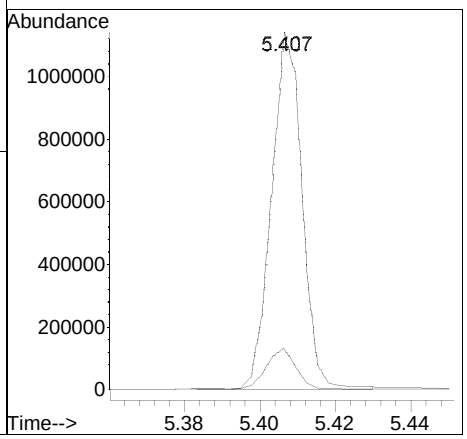


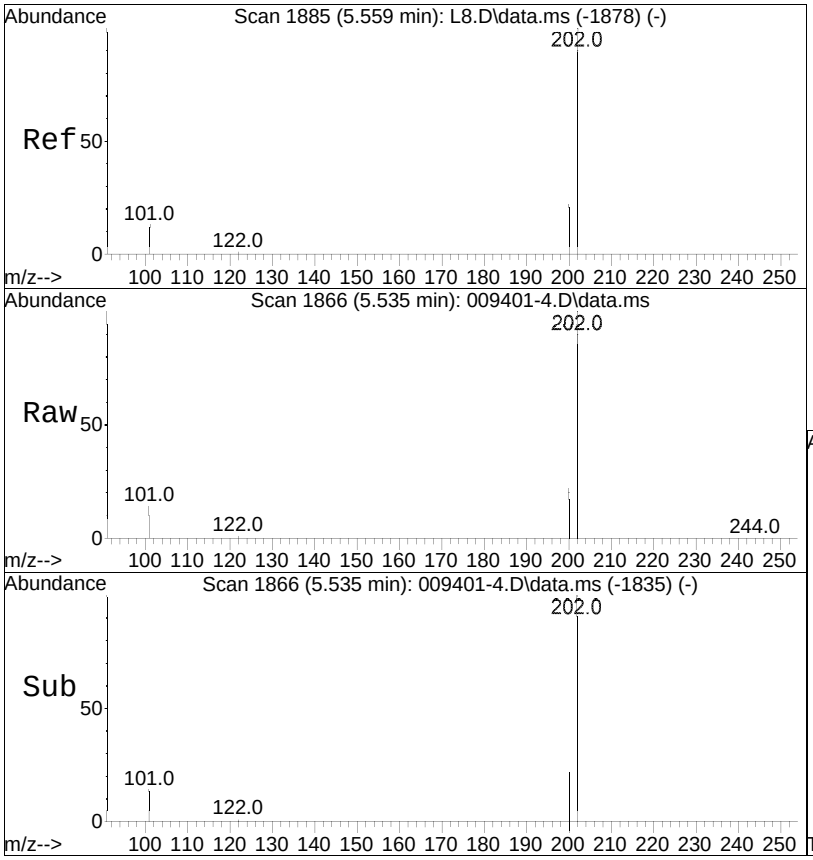


#28
Fluoranthene
Concen: 1696.69 ng/ml M3
RT: 5.407 min Scan# 1822
Delta R.T. -0.005 min
Lab File: 009401-4.D
Acq: 16 Dec 2024 10:41 am

Tgt Ion:202 Resp: 635014

Ion	Ratio	Lower	Upper
202	100		
101	11.4	6.9	10.3#

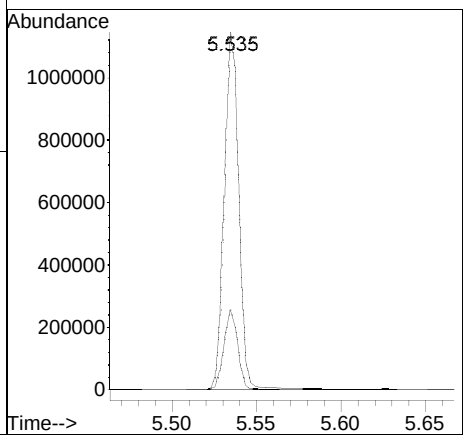


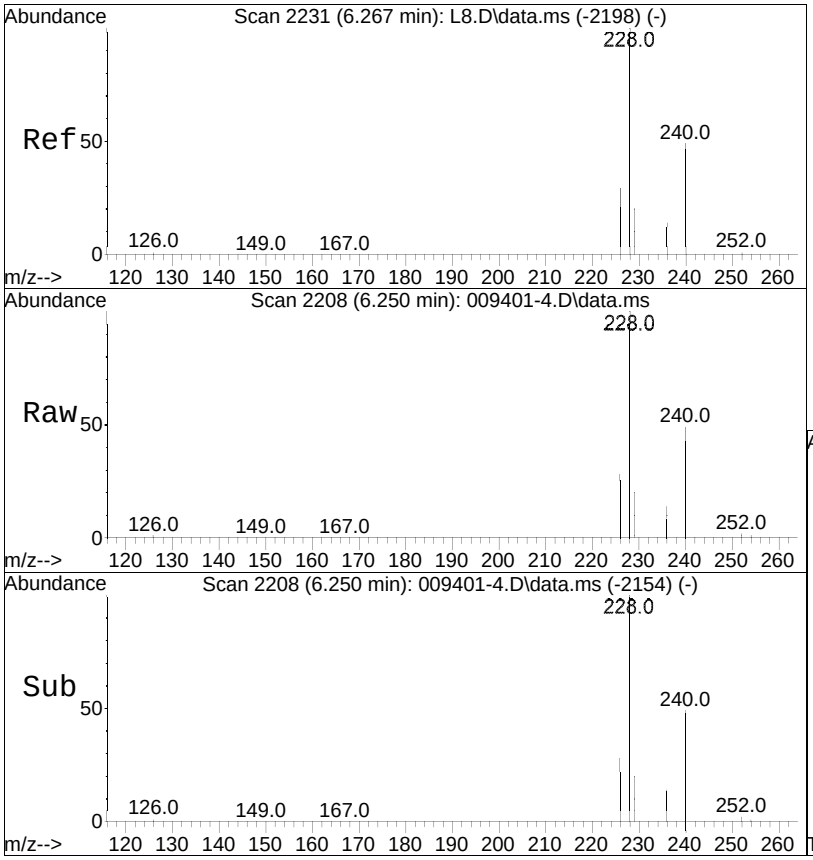


#29
Pyrene
Concen: 1683.23 ng/ml
RT: 5.535 min Scan# 1866
Delta R.T. -0.010 min
Lab File: 009401-4.D
Acq: 16 Dec 2024 10:41 am

Tgt Ion:202 Resp: 669208

Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.4	26.0

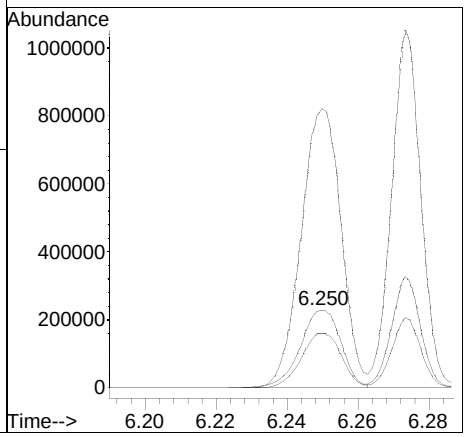


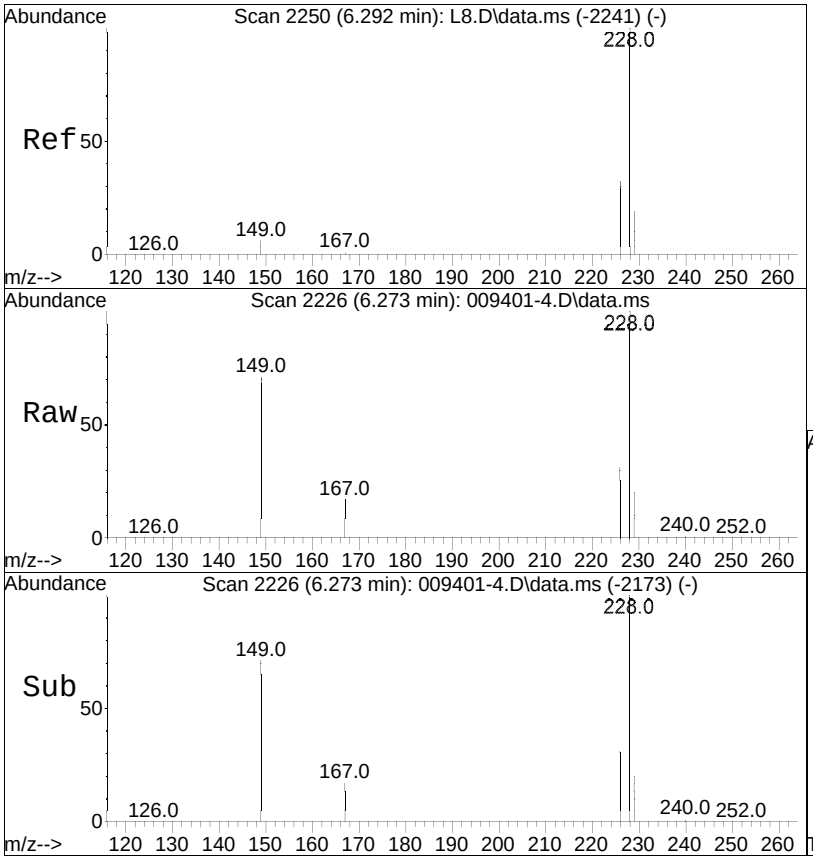


#32
Benzo[a]anthracene
Concen: 1580.29 ng/ml
RT: 6.250 min Scan# 2208
Delta R.T. -0.028 min
Lab File: 009401-4.D
Acq: 16 Dec 2024 10:41 am

Tgt Ion:226 Resp: 183374

Ion	Ratio	Lower	Upper
226	100		
227	0.0	0.0	0.0
228	350.1	284.1	426.1
229	68.8	56.6	85.0

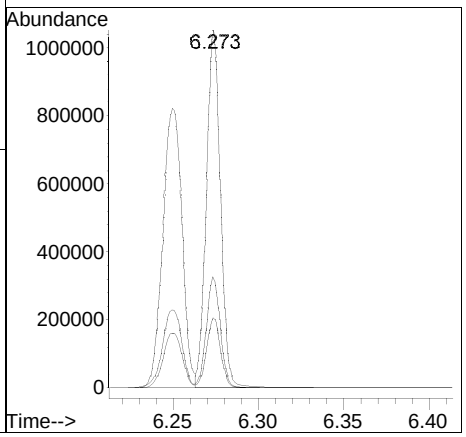


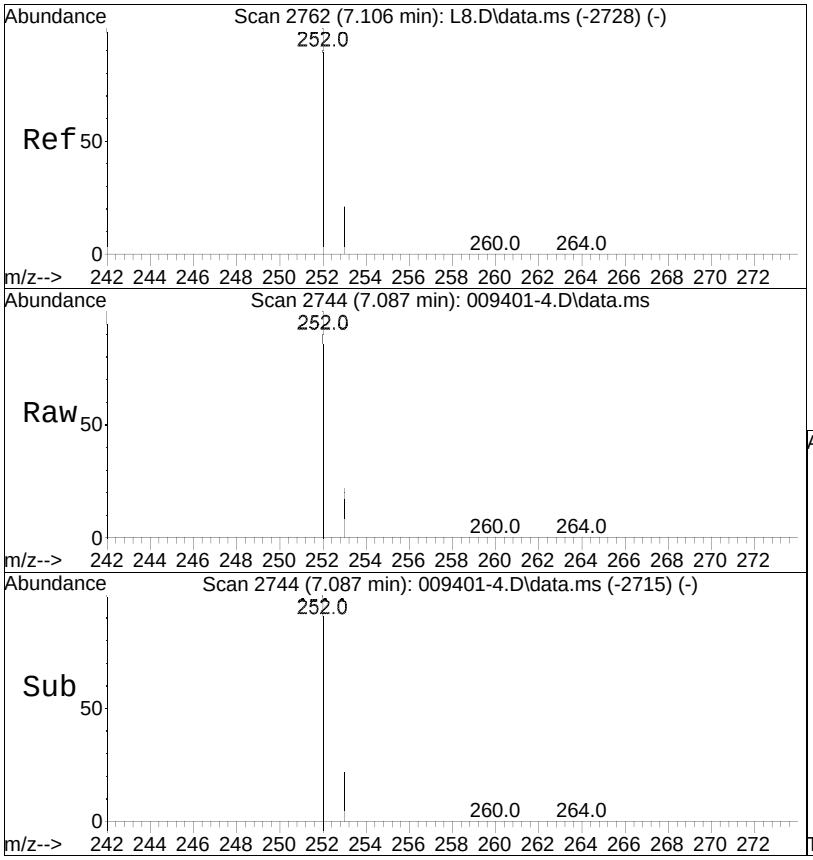


#34
Chrysene
Concen: 1696.34 ng/ml
RT: 6.273 min Scan# 2226
Delta R.T. -0.030 min
Lab File: 009401-4.D
Acq: 16 Dec 2024 10:41 am

Tgt Ion:228 Resp: 606330

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.6	36.8
227	0.0	0.0	0.0
229	19.5	15.4	23.2

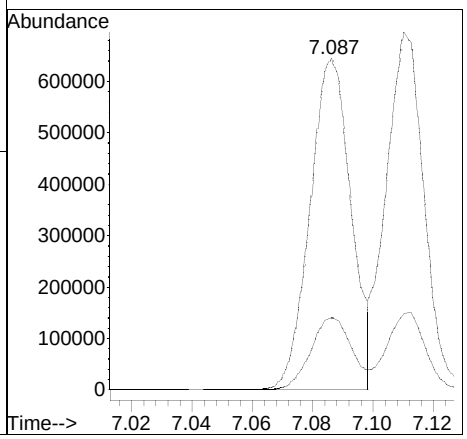


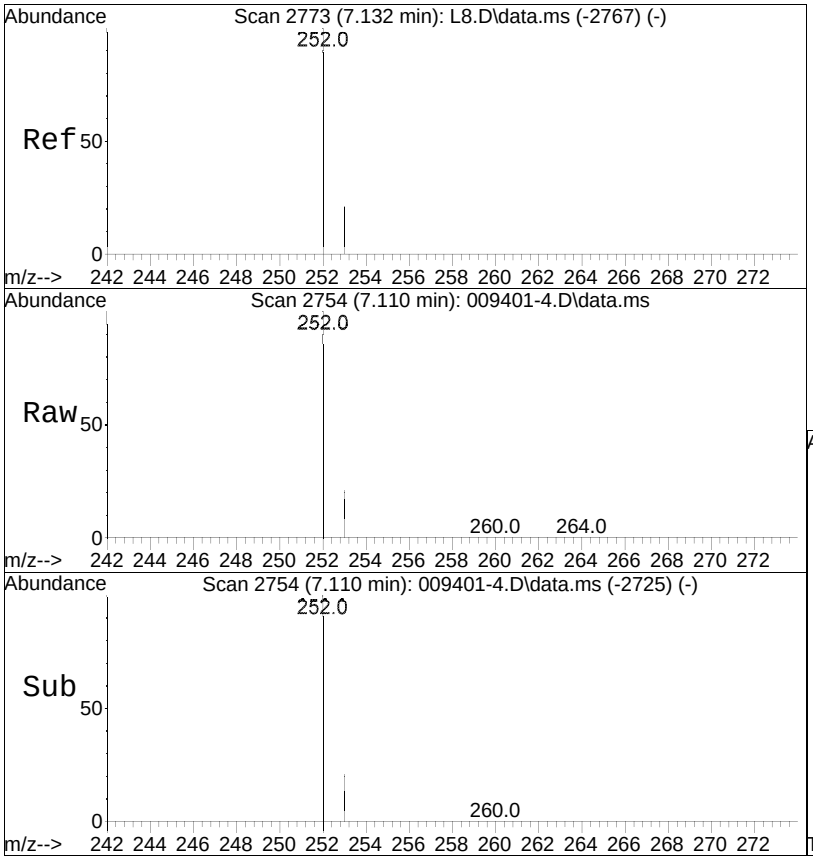


#37
Benzo[b]fluoranthene
Concen: 1953.88 ng/ml
RT: 7.087 min Scan# 2744
Delta R.T. -0.031 min
Lab File: 009401-4.D
Acq: 16 Dec 2024 10:41 am

Tgt Ion:252 Resp: 612247

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.6	26.4

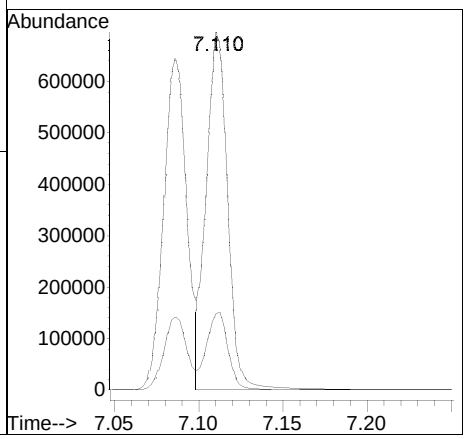


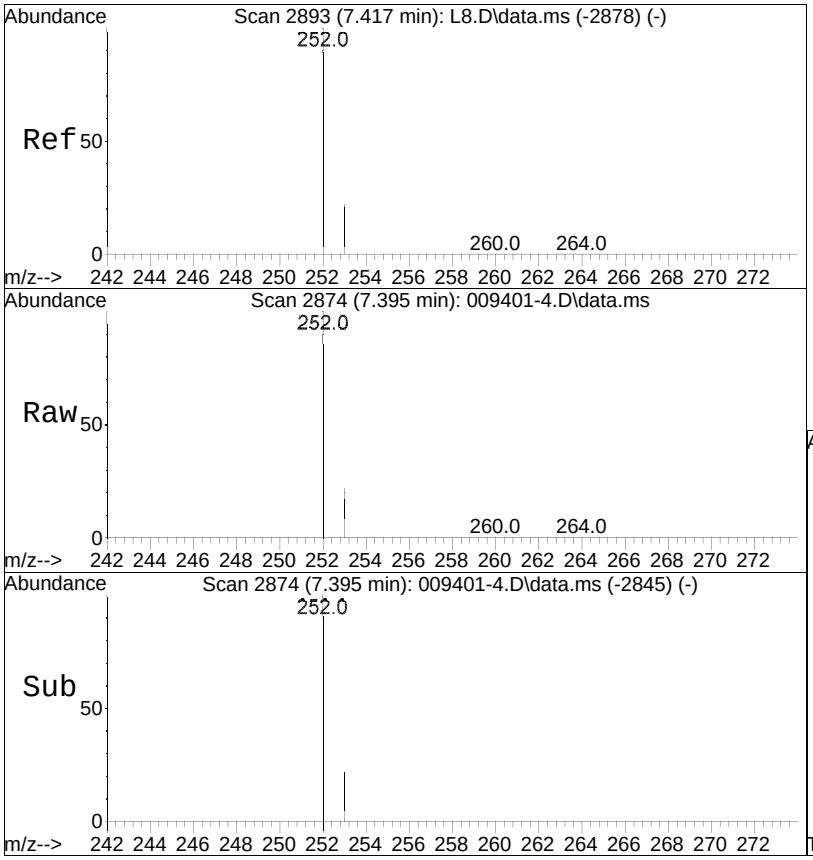


#38
Benzo[k]fluoranthene
Concen: 1832.76 ng/ml
RT: 7.110 min Scan# 2754
Delta R.T. -0.031 min
Lab File: 009401-4.D
Acq: 16 Dec 2024 10:41 am

Tgt Ion:252 Resp: 608903

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.6	26.4

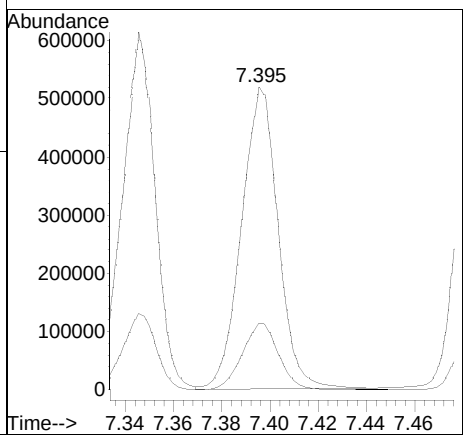


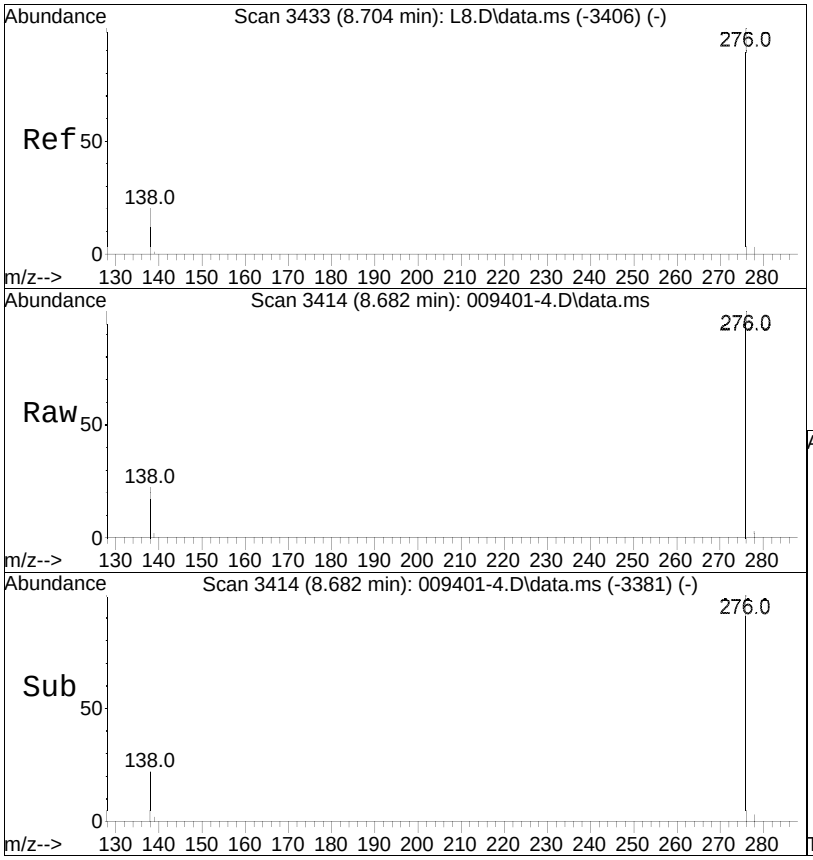


#39
Benzo[a]pyrene
Concen: 1952.58 ng/ml
RT: 7.395 min Scan# 2874
Delta R.T. -0.031 min
Lab File: 009401-4.D
Acq: 16 Dec 2024 10:41 am

Tgt Ion:252 Resp: 540543

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3

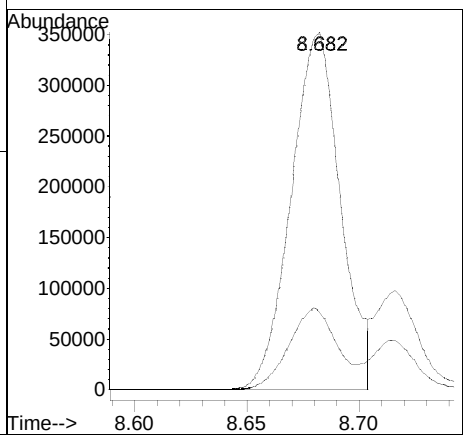


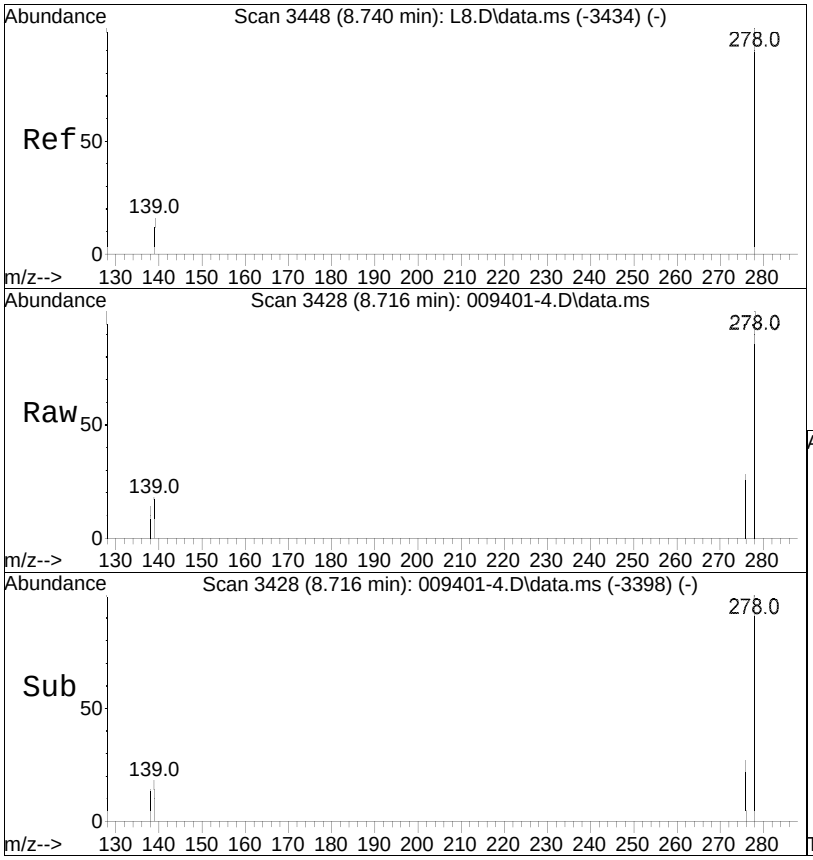


#40
Indeno[1,2,3-cd]pyrene
Concen: 2076.23 ng/ml
RT: 8.682 min Scan# 3414
Delta R.T. -0.022 min
Lab File: 009401-4.D
Acq: 16 Dec 2024 10:41 am

Tgt Ion:276 Resp: 535849

Ion	Ratio	Lower	Upper
276	100		
138	22.4	11.8	17.6#

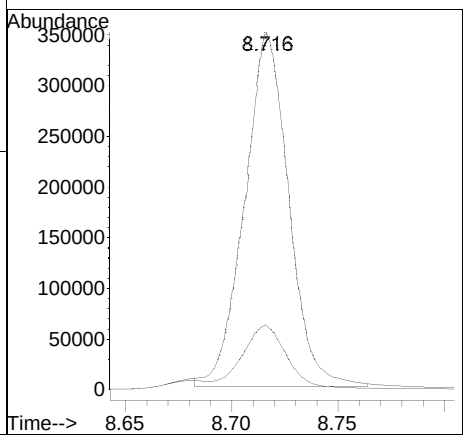


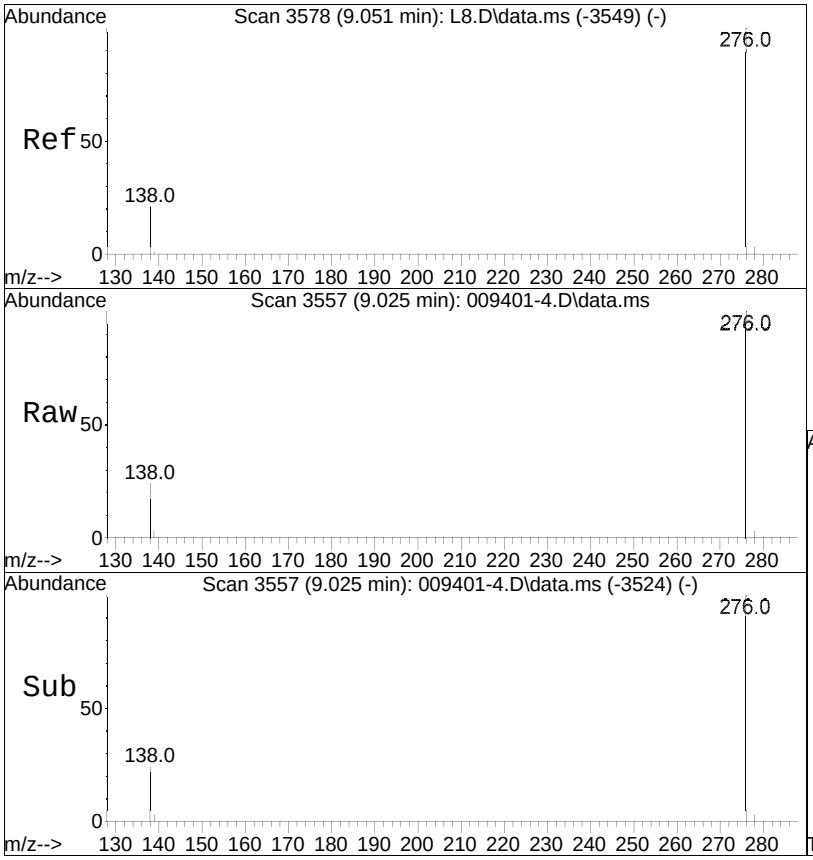


#41
Dibenzo[a,h]anthracene
Concen: 1912.62 ng/ml M6
RT: 8.716 min Scan# 3428
Delta R.T. -0.029 min
Lab File: 009401-4.D
Acq: 16 Dec 2024 10:41 am

Tgt Ion:278 Resp: 502486

Ion	Ratio	Lower	Upper
278	100		
139	18.6	9.8	14.8#

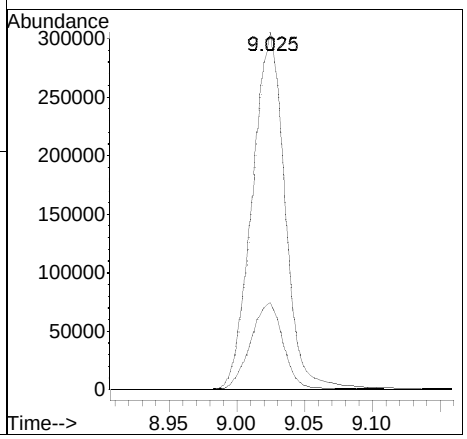




#42
Benzo[g,h,i]perylene
Concen: 1871.96 ng/ml
RT: 9.025 min Scan# 3557
Delta R.T. -0.022 min
Lab File: 009401-4.D
Acq: 16 Dec 2024 10:41 am

Tgt Ion:276 Resp: 506454

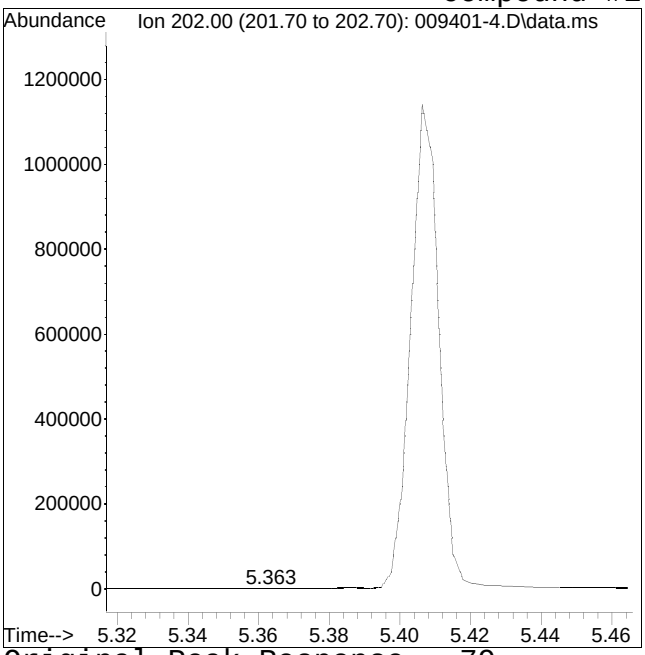
Ion	Ratio	Lower	Upper
276	100		
138	24.7	12.8	19.2#

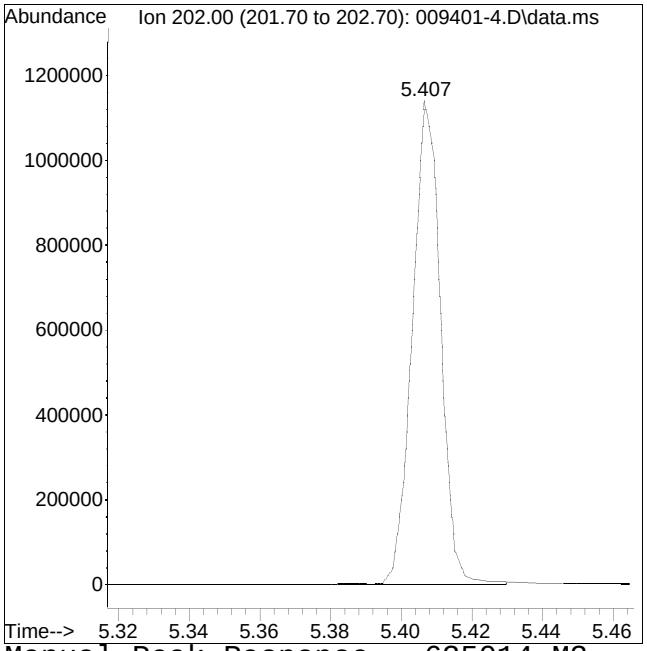


Manual Integration Report

Data Path : I:\8270SIM\SV118\241216RVTQMethod : SIM-RVT_241025sv118.M
Data File : 009401-4.D Operator : SV118:dv
Date Inj'd : 12/16/2024 10:41 am Instrument : SV118
Sample : WG2009401-4,32,,kmh Quant Date : 12/16/2024 10:54 am

Compound #28: Fluoranthene



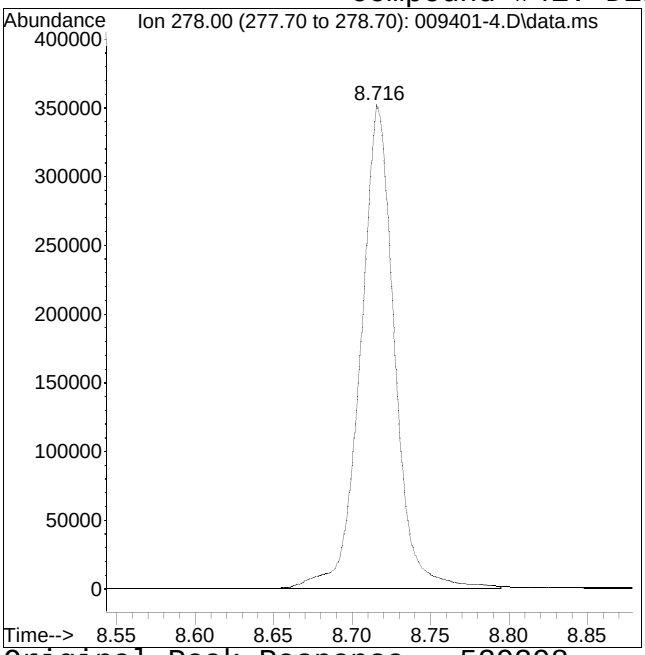


Original Peak Response = 79 Manual Peak Response = 635014 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

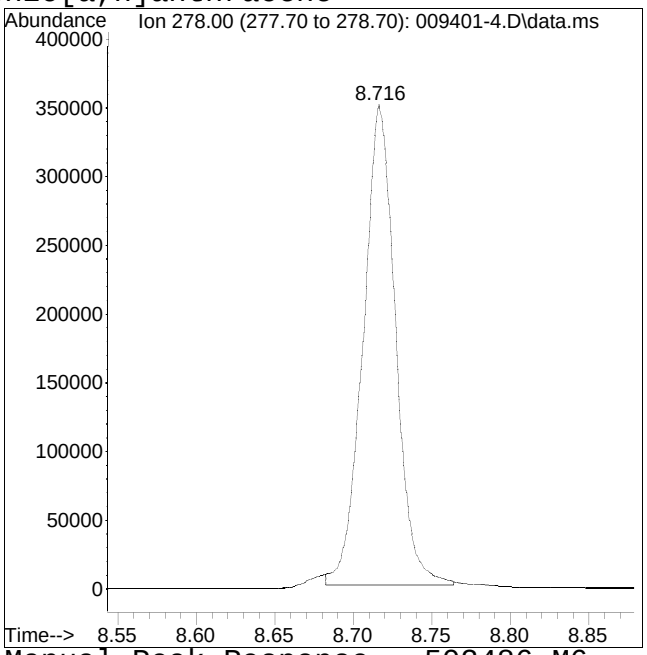
Manual Integration Report

Data Path : I:\8270SIM\SV118\241216RVTQMethod : SIM-RVT_241025sv118.M
Data File : 009401-4.D Operator : SV118:dv
Date Inj'd : 12/16/2024 10:41 am Instrument : SV118
Sample : WG2009401-4,32,,kmh Quant Date : 12/16/2024 10:54 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 529398



Manual Peak Response = 502486 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 009401-5.D
Acq On : 16 Dec 2024 10:58 am
Operator : SV118:dv
Sample : WG2009401-5,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 17 13:08:08 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\241216RVT\ccv1216.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.225	152	226064	4000.000	ng/ml	0.00
Standard Area 1 = 337319			Recovery = 67.02%			
8) Naphthalene-d8	2.893	136	846961	4000.000	ng/ml	0.00
Standard Area 1 = 1155411			Recovery = 73.30%			
17) Acenaphthene-d10	3.876	164	562994	4000.000	ng/ml	0.00
Standard Area 1 = 643247			Recovery = 87.52%			
22) Phenanthrene-d10	4.718	188	1172889	4000.000	ng/ml	0.00
Standard Area 1 = 1305613			Recovery = 89.83%			
31) Chrysene-d12	6.258	240	1129837	4000.000	ng/ml	-0.03
Standard Area 1 = 1642453			Recovery = 68.79%			
36) Perylene-d12	7.465	264	1113478	4000.000	ng/ml	-0.03
Standard Area 1 = 1677056			Recovery = 66.39%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.640	112	76237	1192.783	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 59.64%			
3) Phenol-d6	2.040	99	65347	832.033	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 41.60%			
7) Nitrobenzene-d5	2.506	82	49951	985.112	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 98.51%			
13) 2-Fluorobiphenyl	3.494	172	147664	906.738	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 90.67%			
21) 2,4,6-Tribromophenol	4.321	330	58529	2256.126	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 112.81%#			
30) 4-Terphenyl-d14	5.626	244	215601	898.407	ng/ml	-0.01
Spiked Amount 1000.000	Range 30 - 130		Recovery = 89.84%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.085	93	97050	1450.140	ng/ml	96
6) Hexachloroethane	2.483	117	37866	1335.056	ng/ml	86
9) Naphthalene	2.905	128	292964	1314.014	ng/ml	100
10) Hexachlorobutadiene	2.976	225	50857	1285.190	ng/ml	99
11) 2-Methylnaphthalene	3.286	142	250203	1752.052	ng/ml	99
14) 2-Chloronaphthalene	3.559	162	253614	1769.460	ng/ml#	81
16) Acenaphthylene	3.795	152	394225	1857.987	ng/ml	99
18) Acenaphthene	3.894	153	275013	1494.252	ng/ml	100
20) Fluorene	4.182	166	320482	1634.442	ng/ml	100
24) Hexachlorobenzene	4.501	284	117802	1525.524	ng/ml	99

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 009401-5.D
Acq On : 16 Dec 2024 10:58 am
Operator : SV118:dv
Sample : WG2009401-5,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 17 13:08:08 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\241216RVT\ccv1216.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	4.615	266	70269	2446.440	ng/ml	100
26) Phenanthrene	4.729	178	506765	1591.588	ng/ml	100
27) Anthracene	4.757	178	527209	1687.224	ng/ml	99
28) Fluoranthene	5.408	202	625587	1755.212	ng/ml#	93
29) Pyrene	5.536	202	654523	1728.742	ng/ml	100
32) Benzo[a]anthracene	6.250	226	172932	1562.910	ng/ml#	99
34) Chrysene	6.274	228	581051	1704.826	ng/ml#	100
37) Benzo[b]fluoranthene	7.087	252	564654	1966.942	ng/ml	100
38) Benzo[k]fluoranthene	7.110	252	568374	1867.363	ng/ml	100
39) Benzo[a]pyrene	7.398	252	494099	1948.186	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.683	276	496282	2098.939	ng/ml#	82
41) Dibenzo[a,h]anthracene	8.719	278	478416M6	1987.685	ng/ml	
42) Benzo[g,h,i]perylene	9.028	276	469041	1892.367	ng/ml#	80

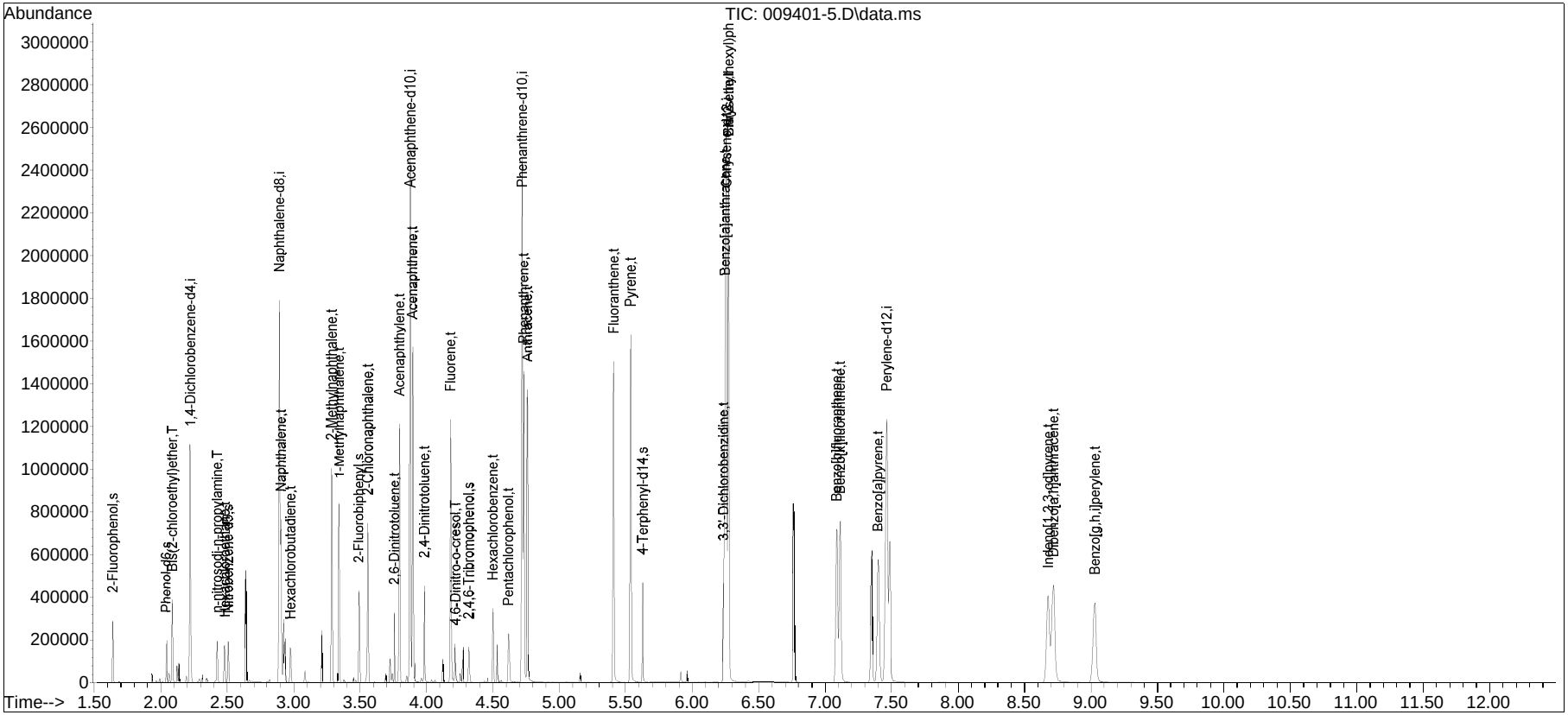
(#) = qualifier out of range (m) = manual integration (+) = signals summed

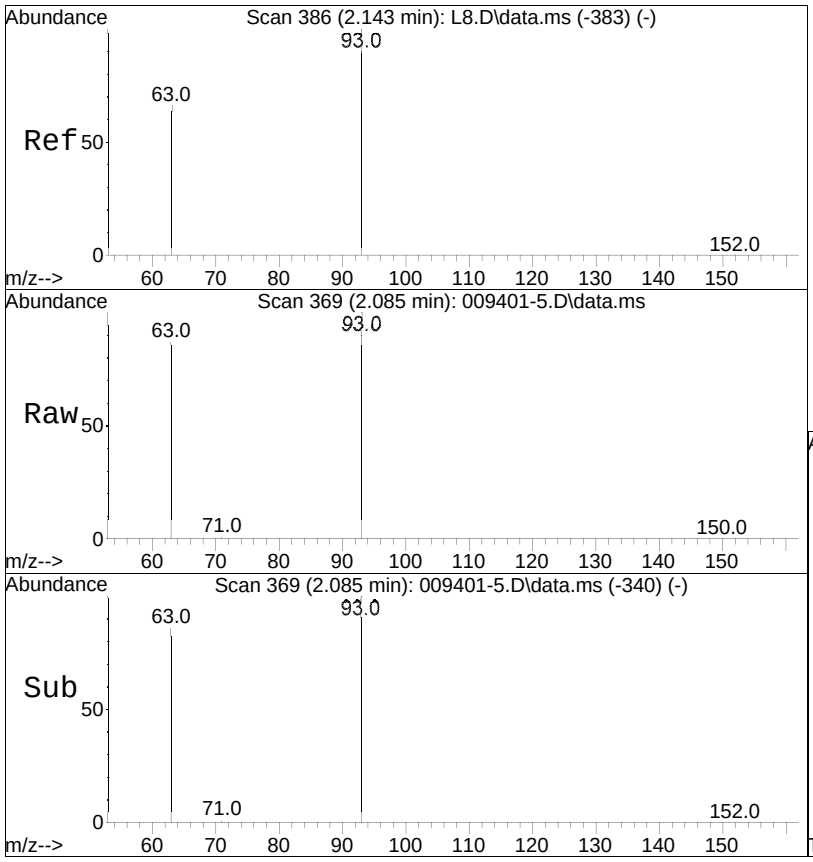
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\241216RVT\
Data File : 009401-5.D
Acq On : 16 Dec 2024 10:58 am
Operator : SV118:dv
Sample : WG2009401-5,32,,kmh
Misc : WG2009609,WG2009401,ical21646
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 17 13:08:08 2024
Quant Method : I:\8270sim\SV118\241216RVT\SIM-RVT_241025sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 16 07:49:41 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv1216.D•

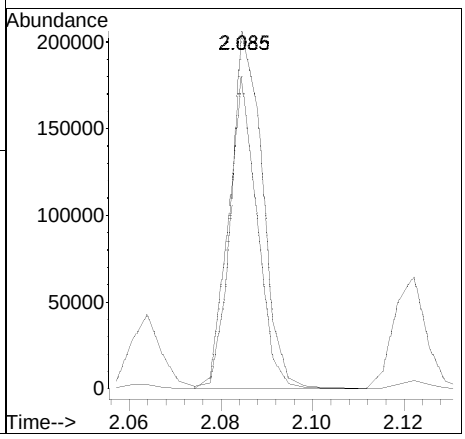


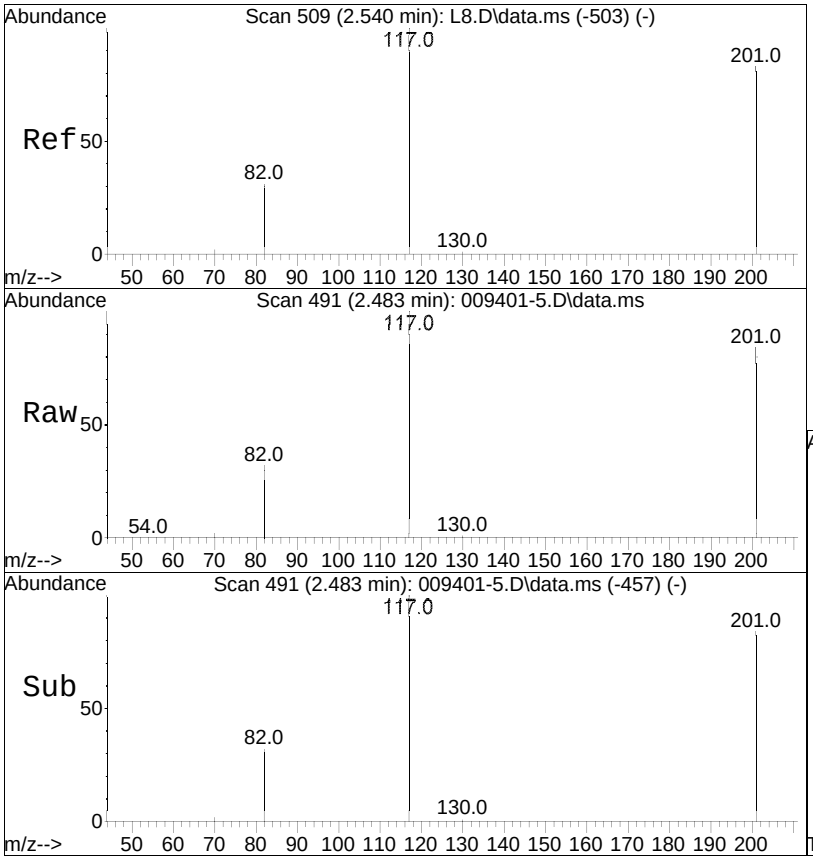


#4
Bis(2-chloroethyl)ether
Concen: 1450.14 ng/ml
RT: 2.085 min Scan# 369
Delta R.T. 0.000 min
Lab File: 009401-5.D
Acq: 16 Dec 2024 10:58 am

Tgt Ion: 93 Resp: 97050

Ion	Ratio	Lower	Upper
93	100		
63	81.1	68.1	102.1

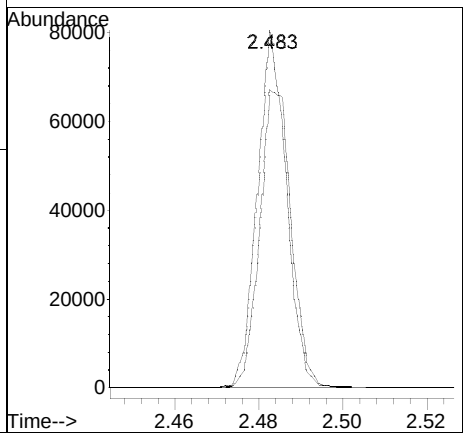


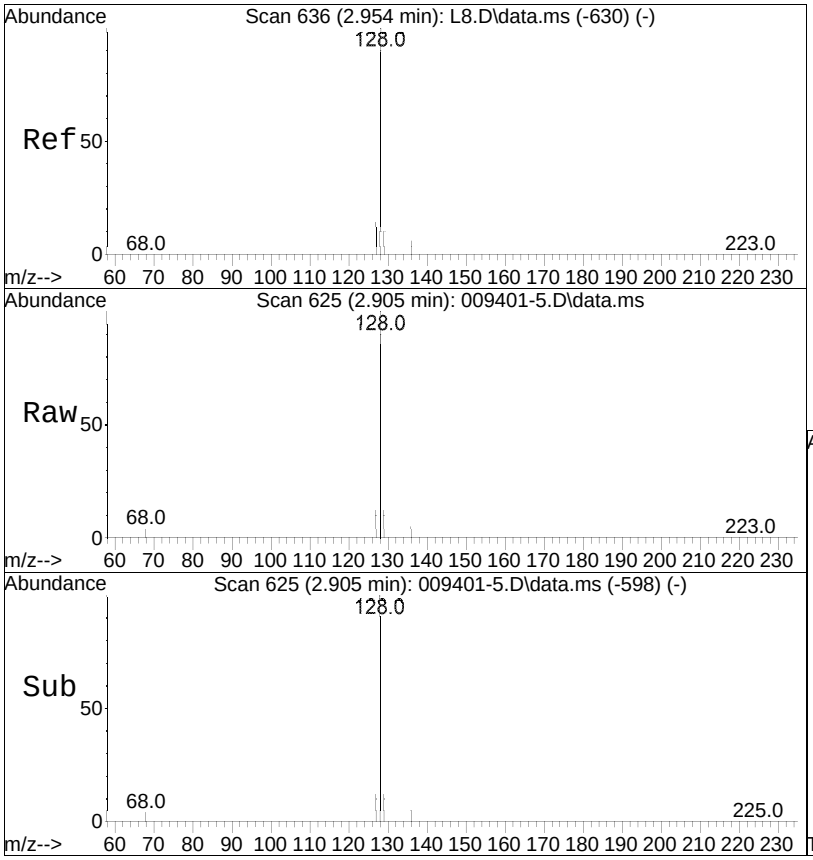


#6
Hexachloroethane
Concen: 1335.06 ng/ml
RT: 2.483 min Scan# 491
Delta R.T. 0.000 min
Lab File: 009401-5.D
Acq: 16 Dec 2024 10:58 am

Tgt Ion:117 Resp: 37866

Ion	Ratio	Lower	Upper
117	100		
201	91.2	84.9	127.3

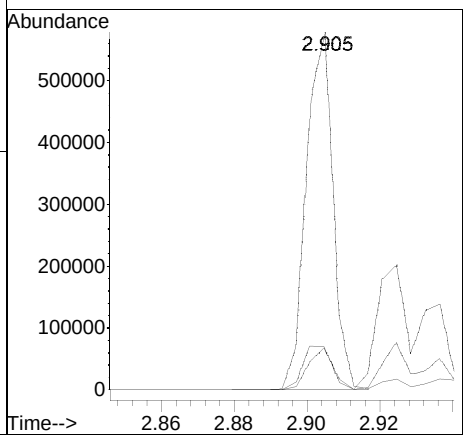


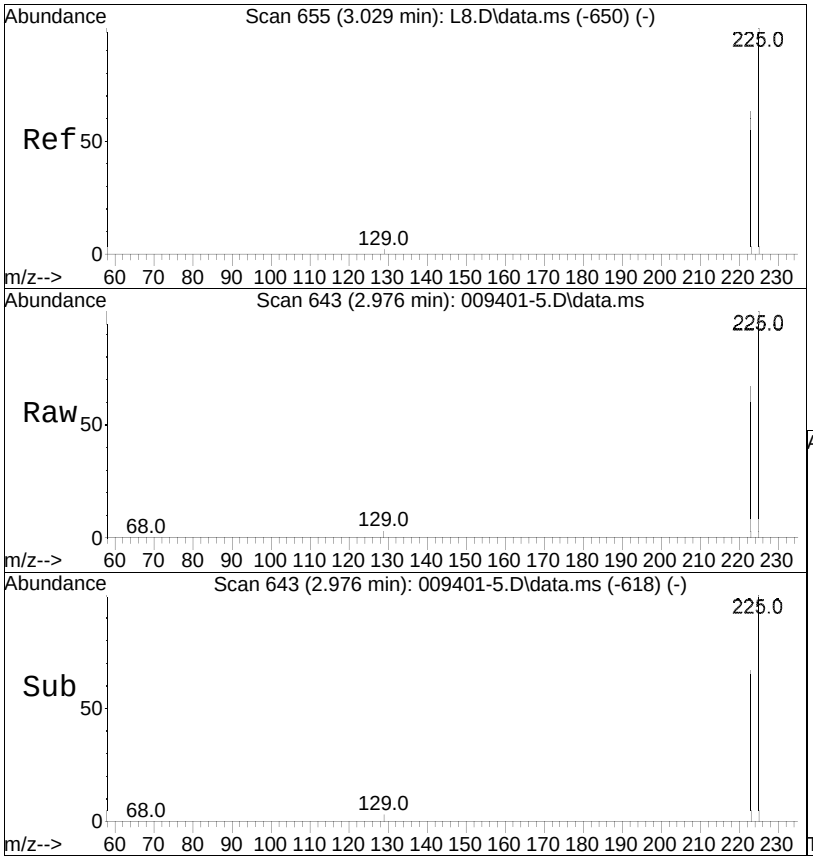


#9
Naphthalene
Concen: 1314.01 ng/ml
RT: 2.905 min Scan# 625
Delta R.T. 0.004 min
Lab File: 009401-5.D
Acq: 16 Dec 2024 10:58 am

Tgt Ion:128 Resp: 292964

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	13.4	10.7	16.1

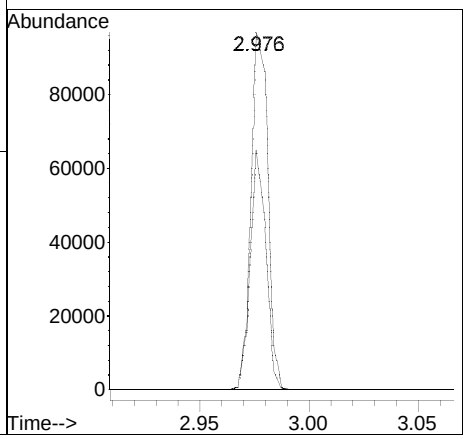


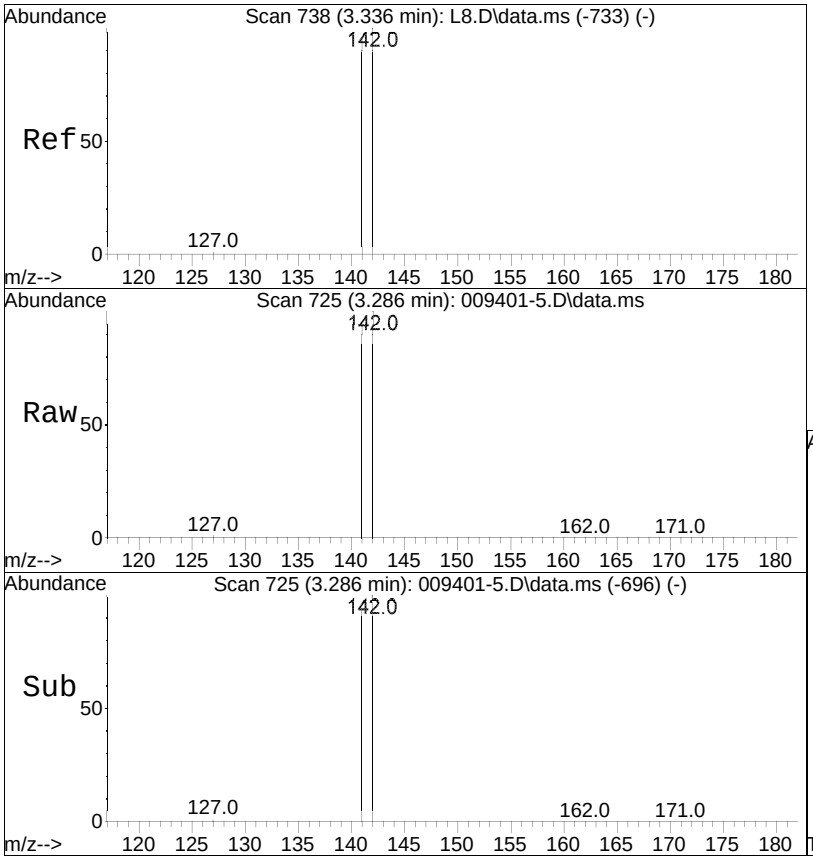


#10
Hexachlorobutadiene
Concen: 1285.19 ng/ml
RT: 2.976 min Scan# 643
Delta R.T. 0.000 min
Lab File: 009401-5.D
Acq: 16 Dec 2024 10:58 am

Tgt Ion:225 Resp: 50857

Ion	Ratio	Lower	Upper
225	100		
223	62.2	50.4	75.6

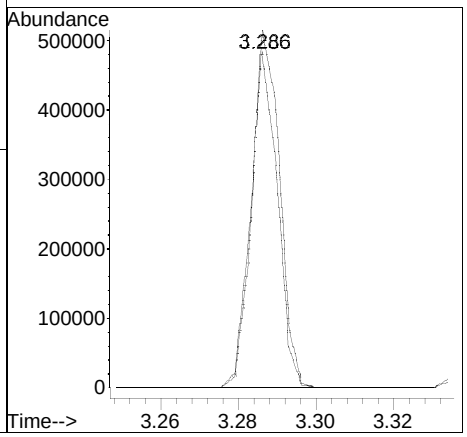


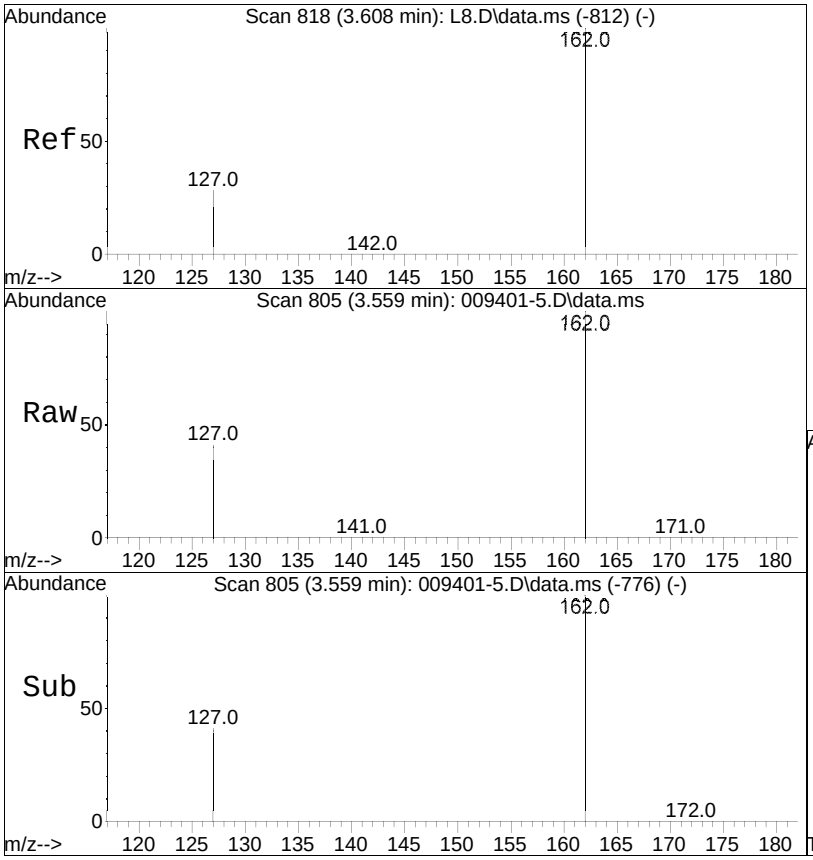


#11
2-Methylnaphthalene
Concen: 1752.05 ng/ml
RT: 3.286 min Scan# 725
Delta R.T. 0.000 min
Lab File: 009401-5.D
Acq: 16 Dec 2024 10:58 am

Tgt Ion:142 Resp: 250203

Ion	Ratio	Lower	Upper
142	100		
141	90.9	71.8	107.8

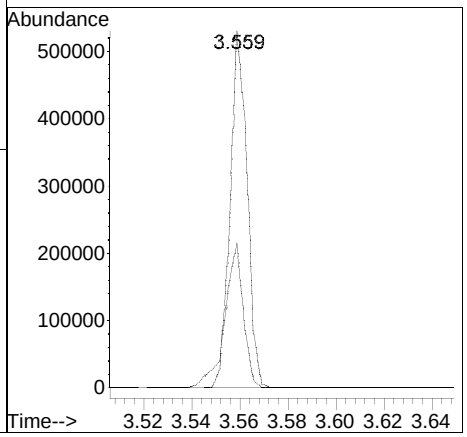


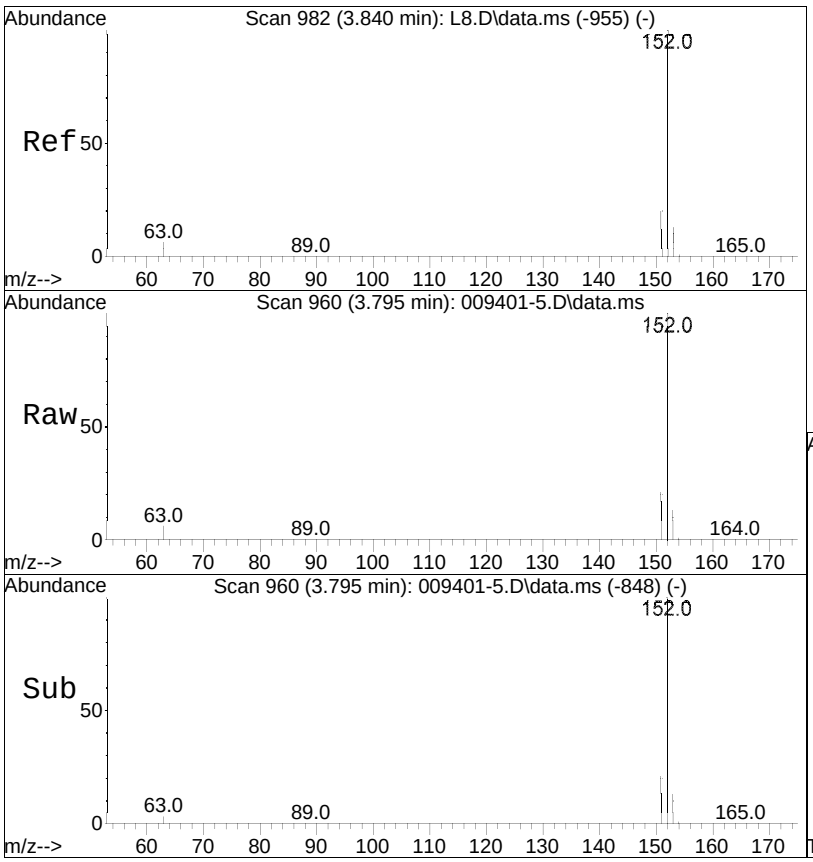


#14
2-Chloronaphthalene
Concen: 1769.46 ng/ml
RT: 3.559 min Scan# 805
Delta R.T. 0.000 min
Lab File: 009401-5.D
Acq: 16 Dec 2024 10:58 am

Tgt Ion:162 Resp: 253614

Ion	Ratio	Lower	Upper
162	100		
127	44.3	26.9	40.3#

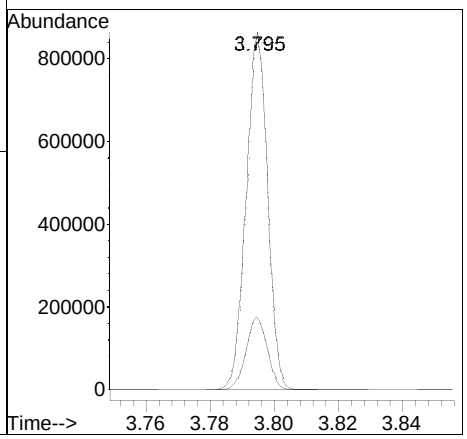


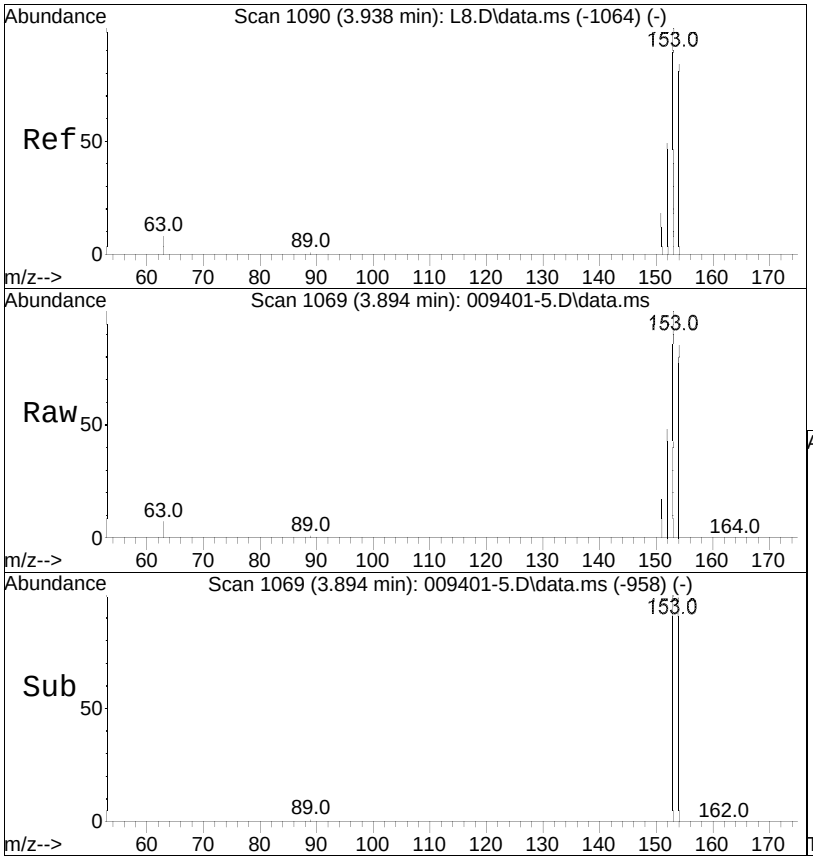


#16
Acenaphthylene
Concen: 1857.99 ng/ml
RT: 3.795 min Scan# 960
Delta R.T. 0.002 min
Lab File: 009401-5.D
Acq: 16 Dec 2024 10:58 am

Tgt Ion:152 Resp: 394225

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.2	24.2

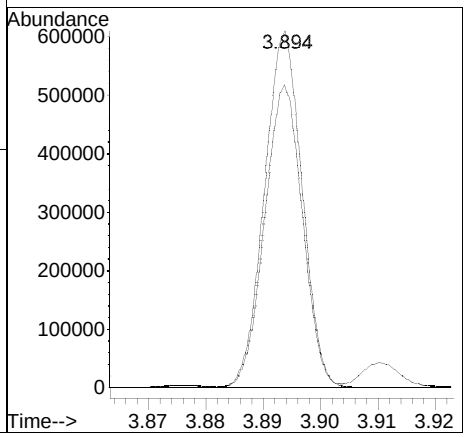


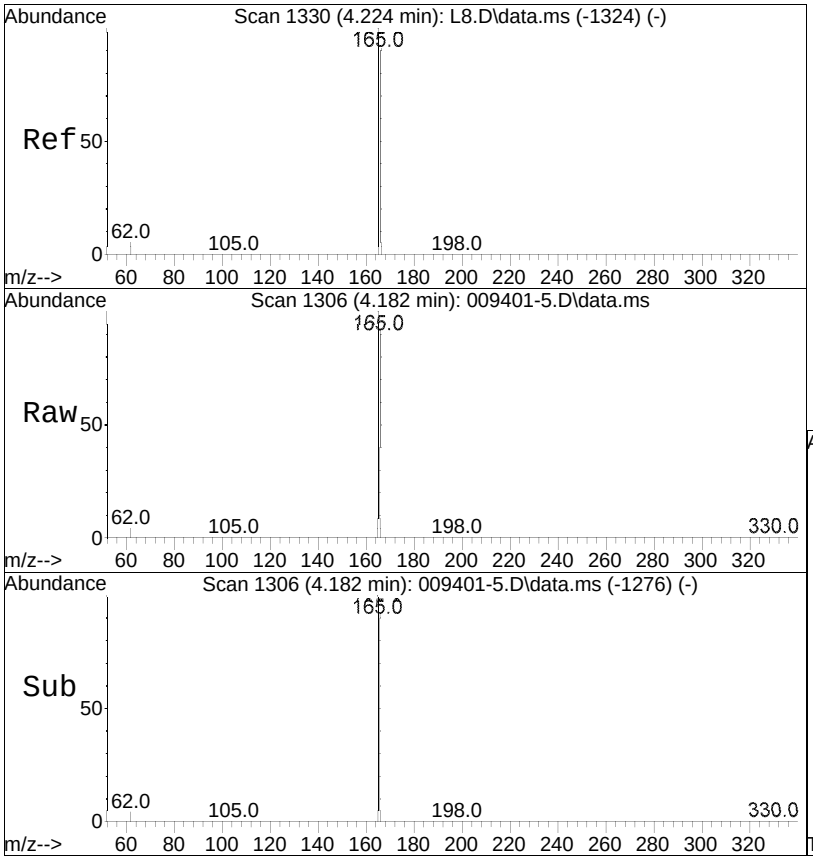


#18
Acenaphthene
Concen: 1494.25 ng/ml
RT: 3.894 min Scan# 1069
Delta R.T. 0.001 min
Lab File: 009401-5.D
Acq: 16 Dec 2024 10:58 am

Tgt Ion:153 Resp: 275013

Ion	Ratio	Lower	Upper
153	100		
154	85.0	68.2	102.4

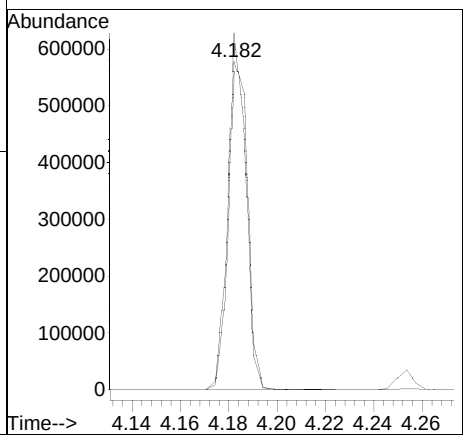


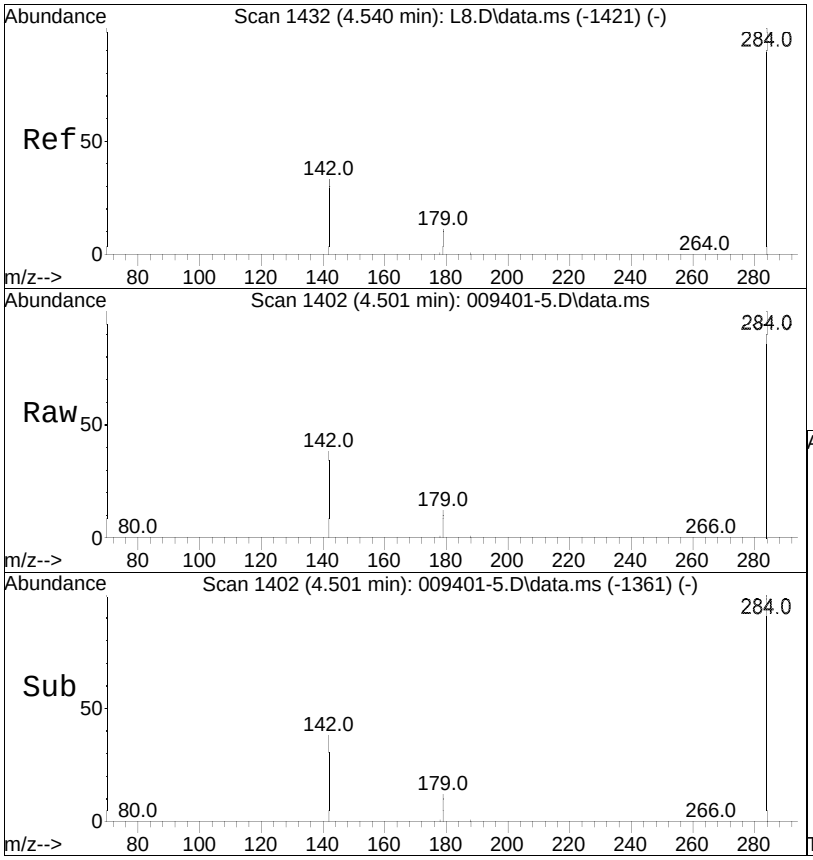


#20
Fluorene
Concen: 1634.44 ng/ml
RT: 4.182 min Scan# 1306
Delta R.T. 0.000 min
Lab File: 009401-5.D
Acq: 16 Dec 2024 10:58 am

Tgt Ion:166 Resp: 320482

Ion	Ratio	Lower	Upper
166	100		
165	100.8	80.5	120.7

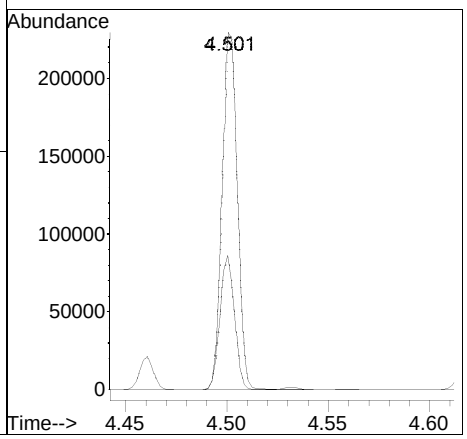


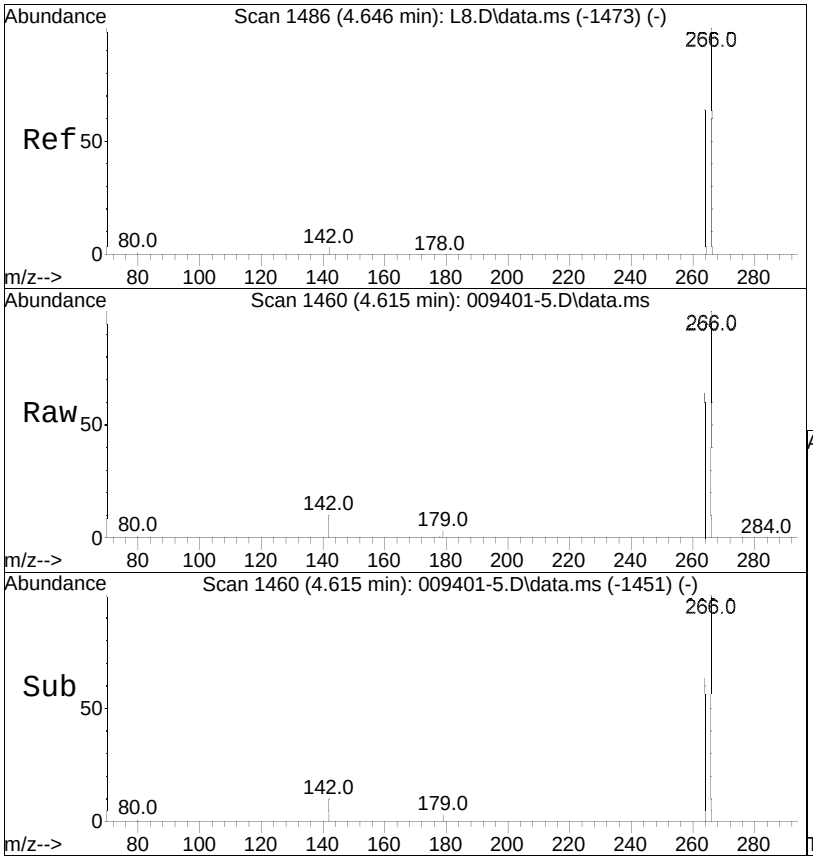


#24
Hexachlorobenzene
Concen: 1525.52 ng/ml
RT: 4.501 min Scan# 1402
Delta R.T. 0.000 min
Lab File: 009401-5.D
Acq: 16 Dec 2024 10:58 am

Tgt Ion:284 Resp: 117802

Ion	Ratio	Lower	Upper
284	100		
142	36.3	28.4	42.6

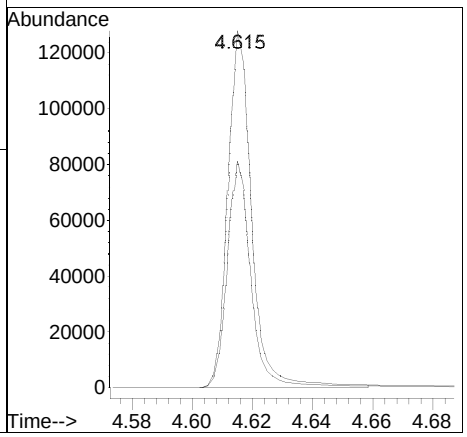


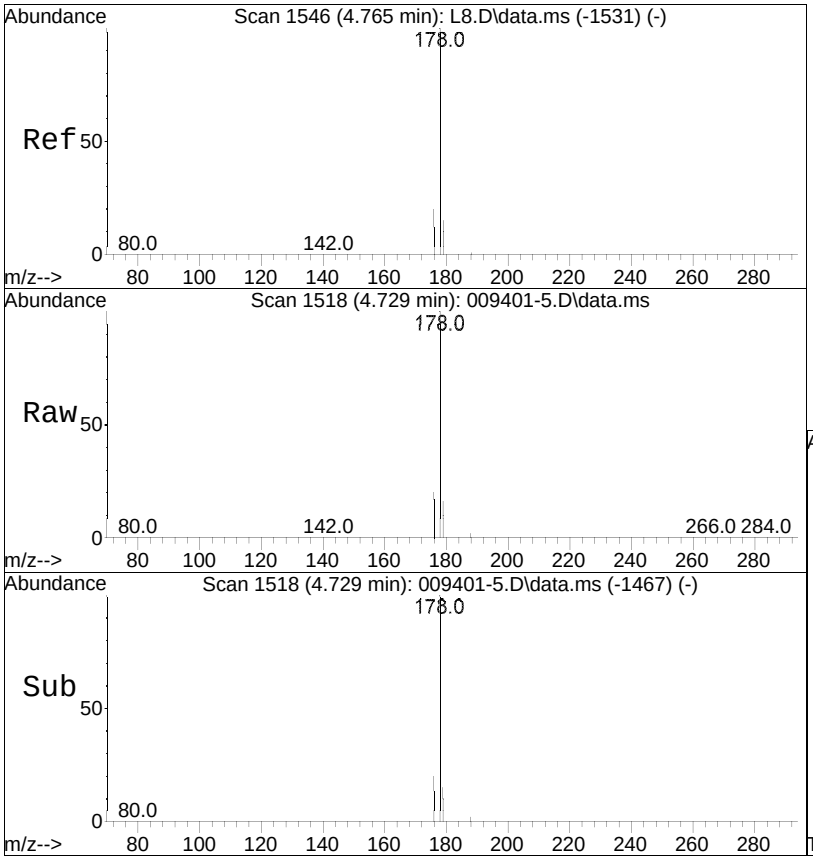


#25
Pentachlorophenol
Concen: 2446.44 ng/ml
RT: 4.615 min Scan# 1460
Delta R.T. -0.002 min
Lab File: 009401-5.D
Acq: 16 Dec 2024 10:58 am

Tgt Ion:266 Resp: 70269

Ion	Ratio	Lower	Upper
266	100		
264	63.2	50.6	76.0

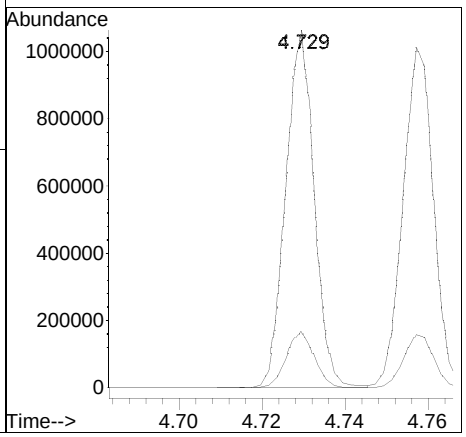


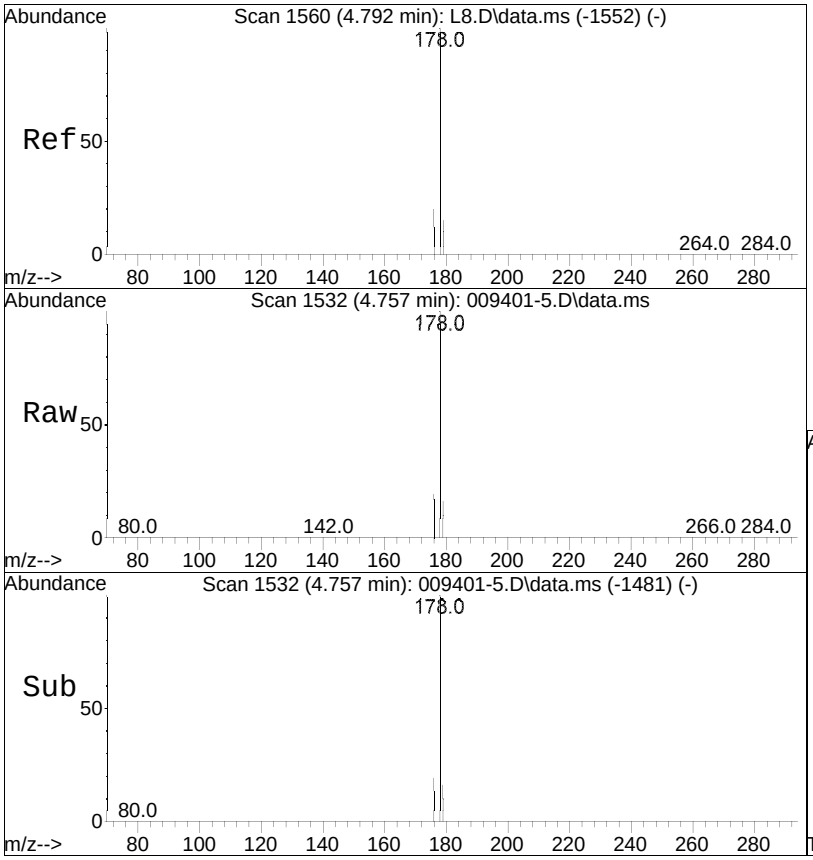


#26
Phenanthrene
Concen: 1591.59 ng/ml
RT: 4.729 min Scan# 1518
Delta R.T. 0.000 min
Lab File: 009401-5.D
Acq: 16 Dec 2024 10:58 am

Tgt Ion:178 Resp: 506765

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.5	18.7

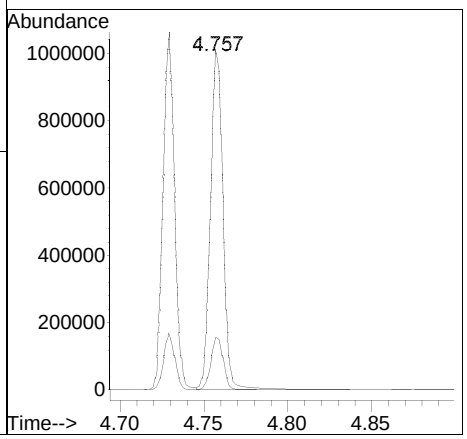


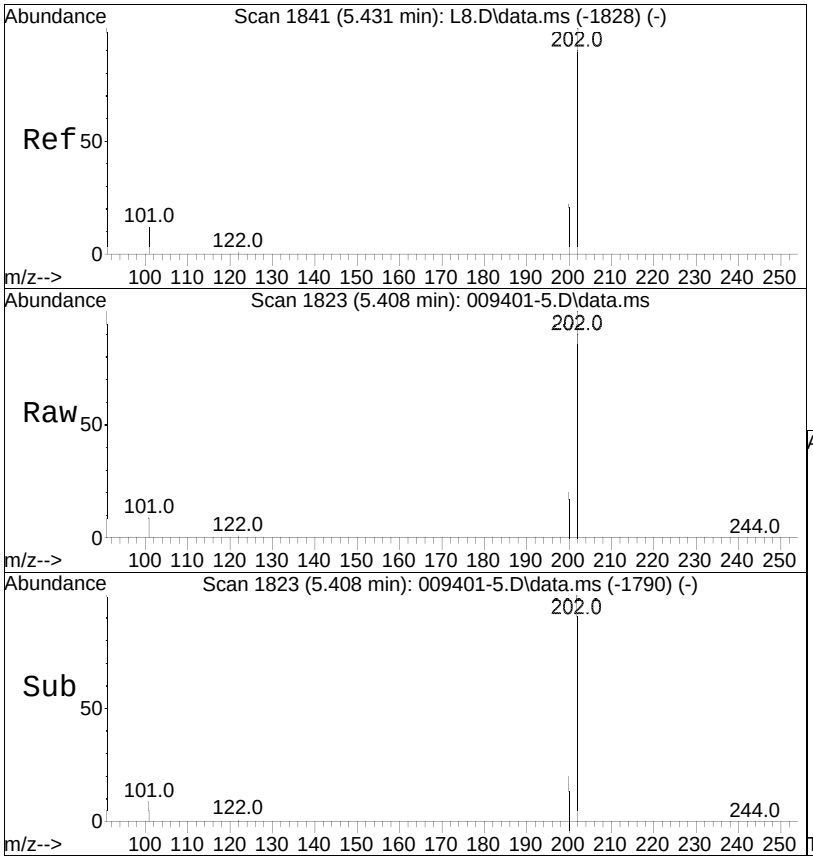


#27
Anthracene
Concen: 1687.22 ng/ml
RT: 4.757 min Scan# 1532
Delta R.T. 0.000 min
Lab File: 009401-5.D
Acq: 16 Dec 2024 10:58 am

Tgt Ion:178 Resp: 527209

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.5	18.7

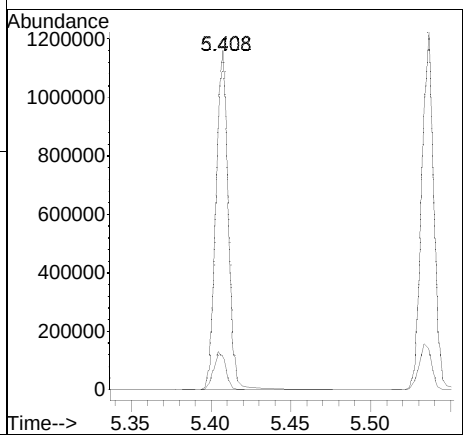


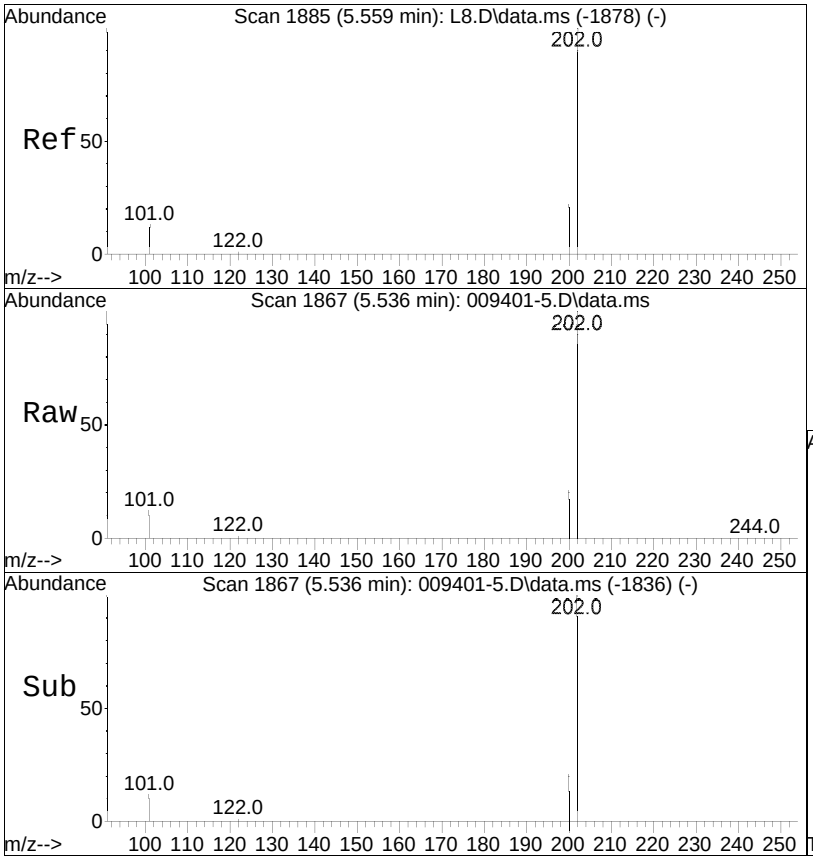


#28
Fluoranthene
Concen: 1755.21 ng/ml
RT: 5.408 min Scan# 1823
Delta R.T. -0.003 min
Lab File: 009401-5.D
Acq: 16 Dec 2024 10:58 am

Tgt Ion:202 Resp: 625587

Ion	Ratio	Lower	Upper
202	100		
101	11.1	6.9	10.3#

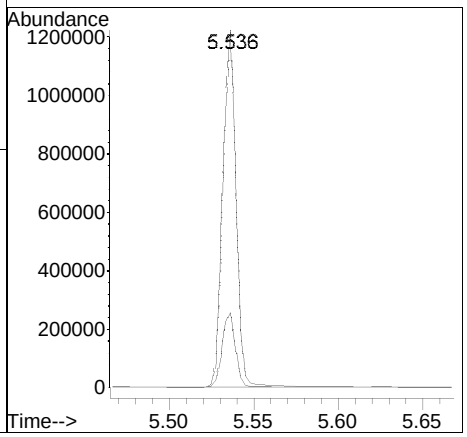


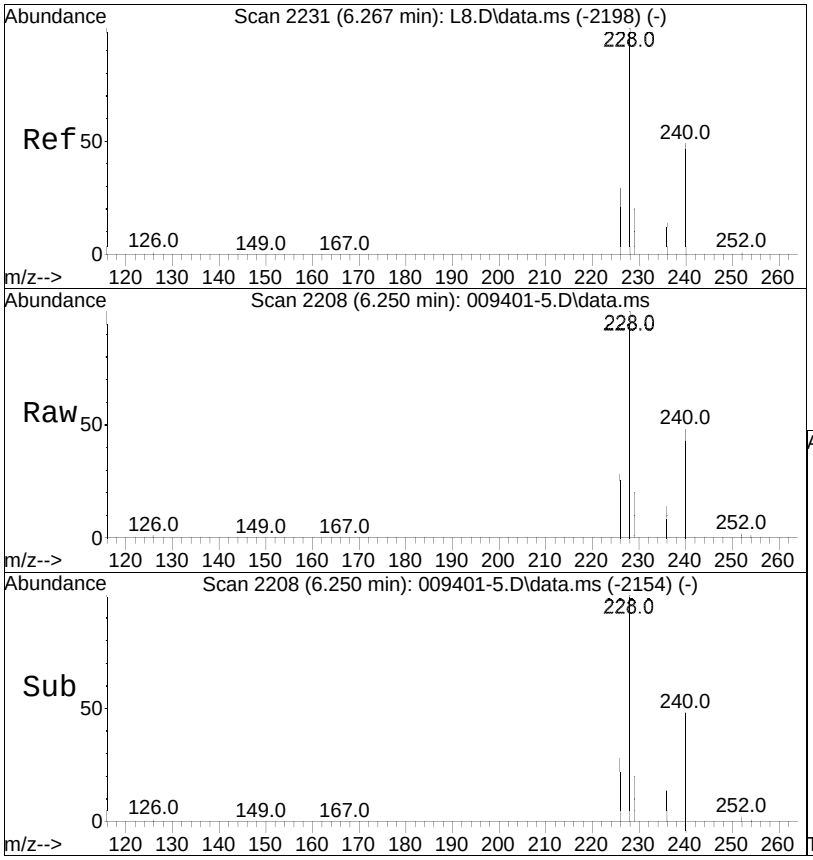


#29
Pyrene
Concen: 1728.74 ng/ml
RT: 5.536 min Scan# 1867
Delta R.T. -0.009 min
Lab File: 009401-5.D
Acq: 16 Dec 2024 10:58 am

Tgt Ion:202 Resp: 654523

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.4	26.0

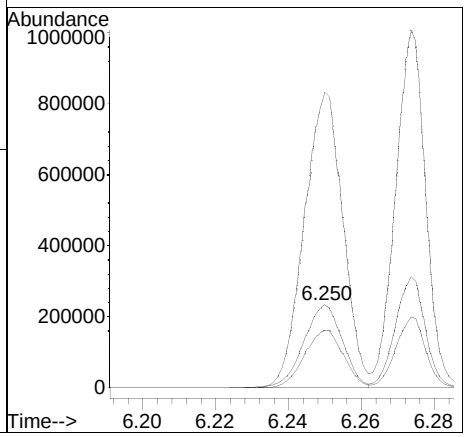


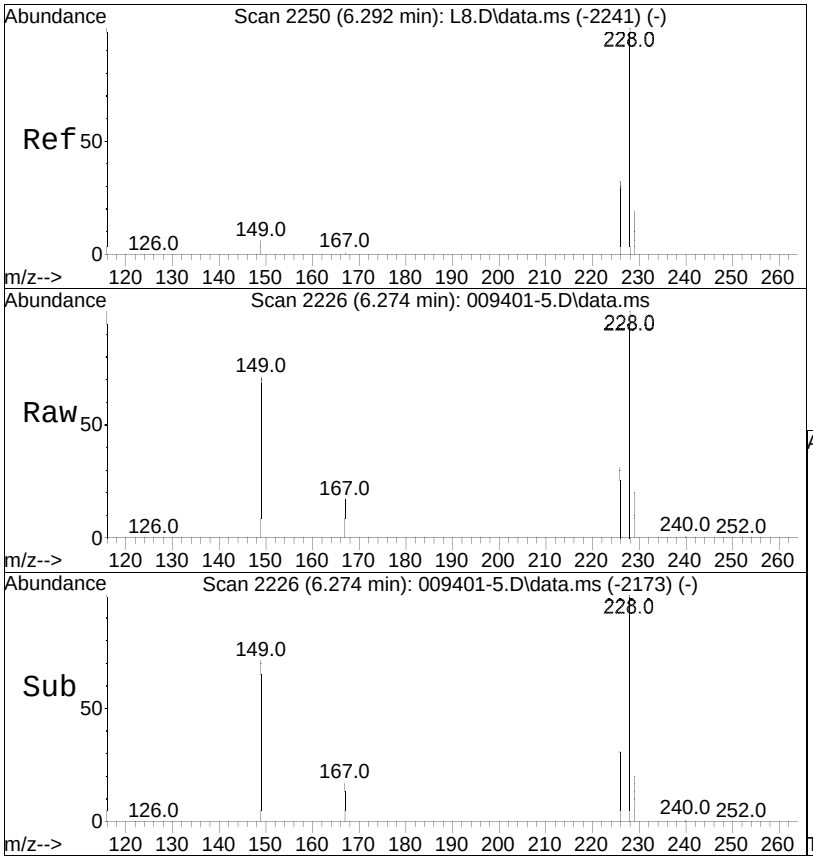


#32
Benzo[a]anthracene
Concen: 1562.91 ng/ml
RT: 6.250 min Scan# 2208
Delta R.T. -0.027 min
Lab File: 009401-5.D
Acq: 16 Dec 2024 10:58 am

Tgt Ion:226 Resp: 172932

Ion	Ratio	Lower	Upper
226	100		
227	0.0	0.0	0.0
228	352.5	284.1	426.1
229	69.3	56.6	85.0

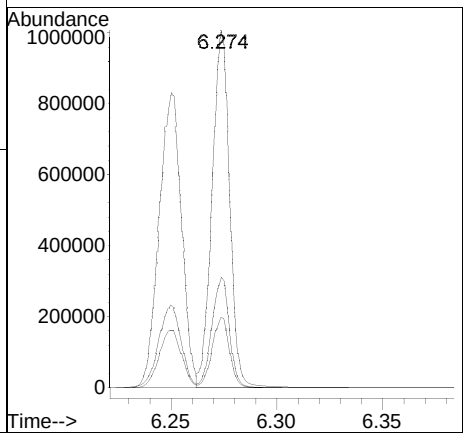


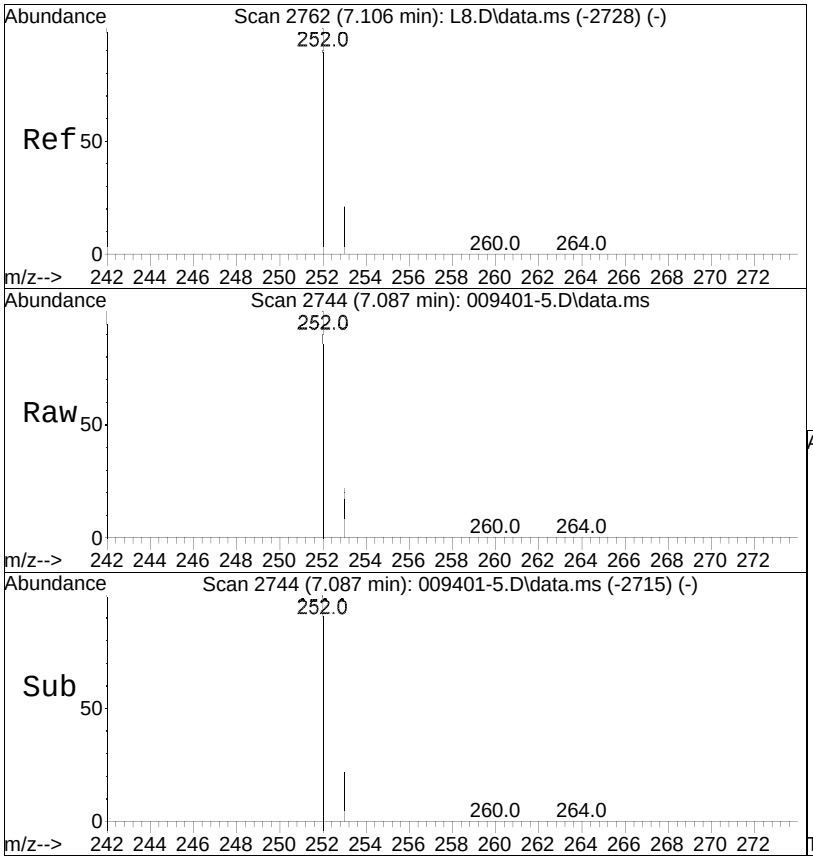


#34
Chrysene
Concen: 1704.83 ng/ml
RT: 6.274 min Scan# 2226
Delta R.T. -0.030 min
Lab File: 009401-5.D
Acq: 16 Dec 2024 10:58 am

Tgt Ion:228 Resp: 581051

Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.6	36.8
227	0.0	0.0	0.0
229	19.6	15.4	23.2

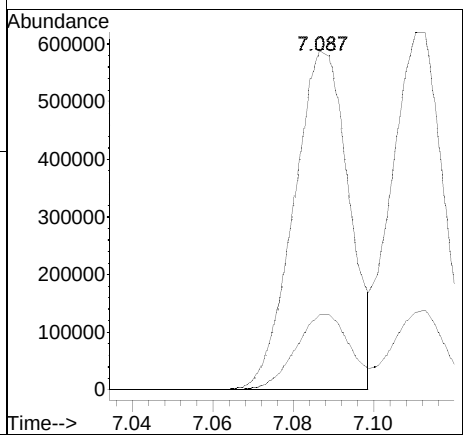


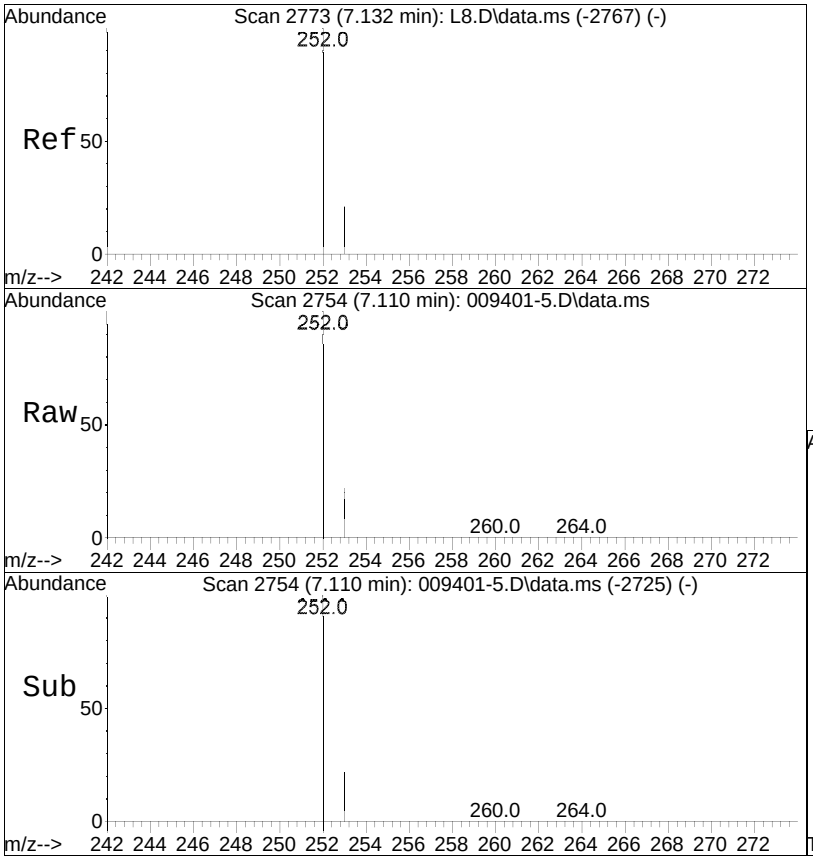


#37
Benzo[b]fluoranthene
Concen: 1966.94 ng/ml
RT: 7.087 min Scan# 2744
Delta R.T. -0.031 min
Lab File: 009401-5.D
Acq: 16 Dec 2024 10:58 am

Tgt Ion:252 Resp: 564654

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.6	26.4

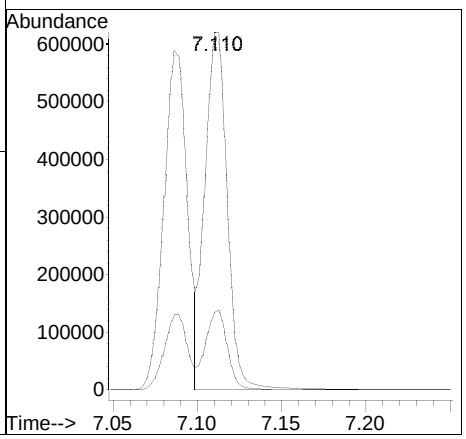


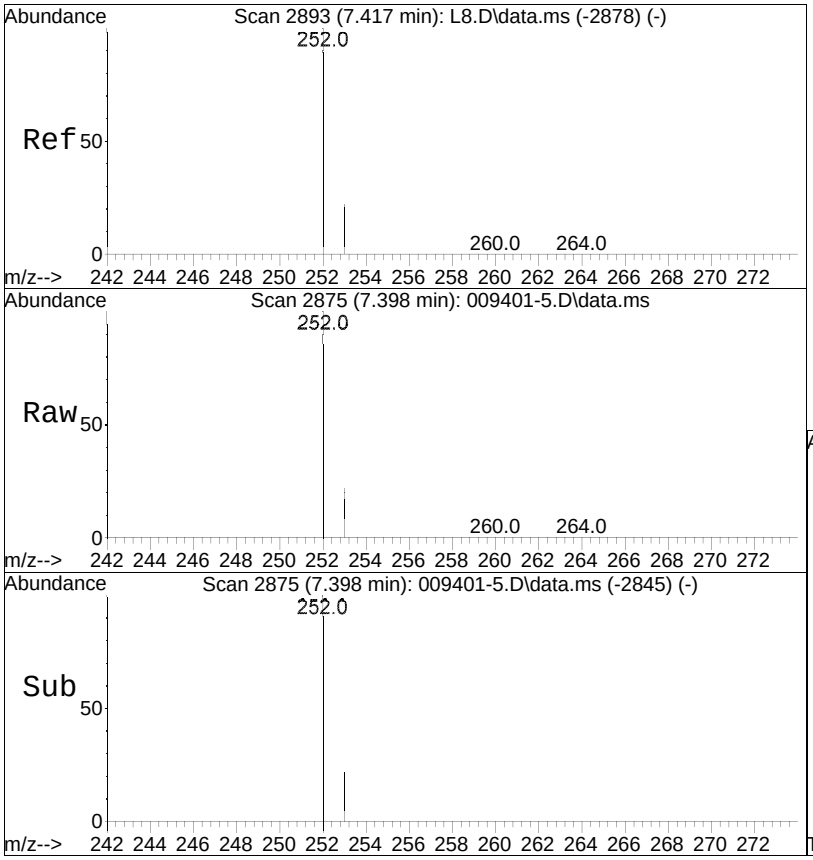


#38
Benzo[k]fluoranthene
Concen: 1867.36 ng/ml
RT: 7.110 min Scan# 2754
Delta R.T. -0.031 min
Lab File: 009401-5.D
Acq: 16 Dec 2024 10:58 am

Tgt Ion:252 Resp: 568374

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.6	26.4

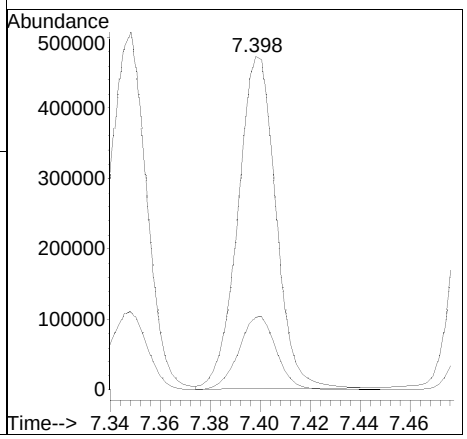


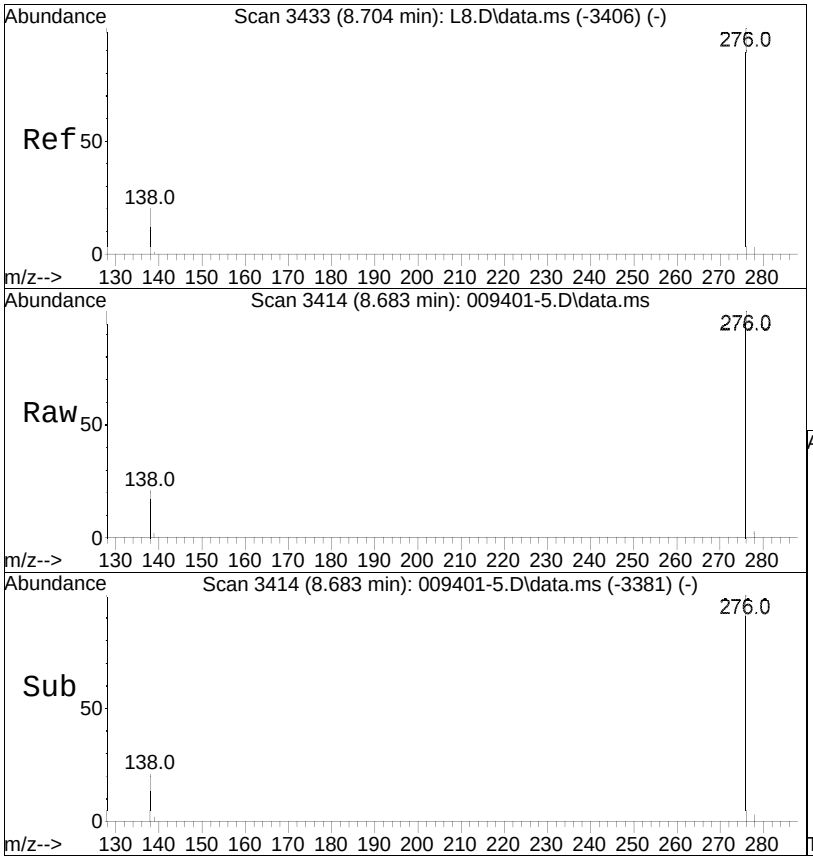


#39
Benzo[a]pyrene
Concen: 1948.19 ng/ml
RT: 7.398 min Scan# 2875
Delta R.T. -0.029 min
Lab File: 009401-5.D
Acq: 16 Dec 2024 10:58 am

Tgt Ion:252 Resp: 494099

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3

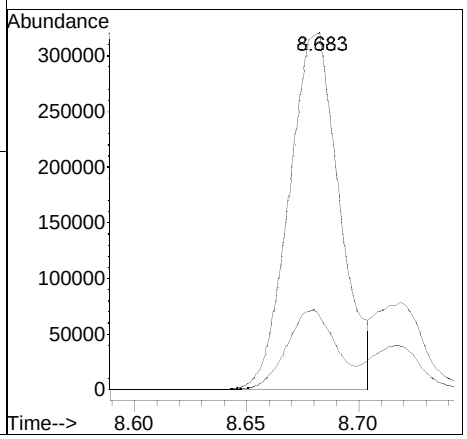


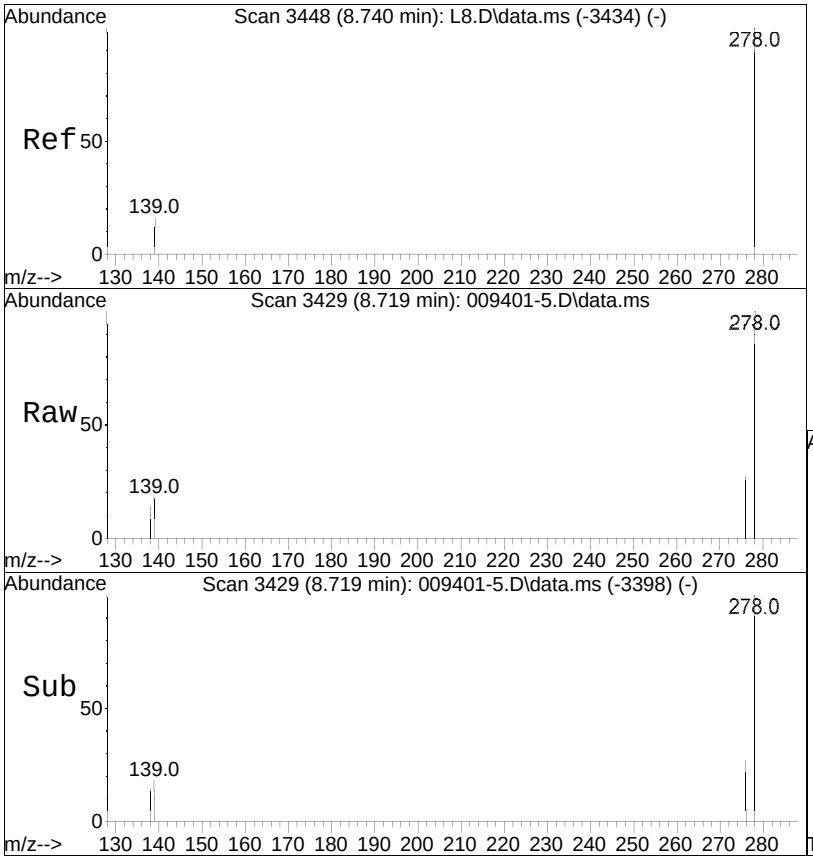


#40
Indeno[1,2,3-cd]pyrene
Concen: 2098.94 ng/ml
RT: 8.683 min Scan# 3414
Delta R.T. -0.022 min
Lab File: 009401-5.D
Acq: 16 Dec 2024 10:58 am

Tgt Ion:276 Resp: 496282

Ion	Ratio	Lower	Upper
276	100		
138	22.1	11.8	17.6#

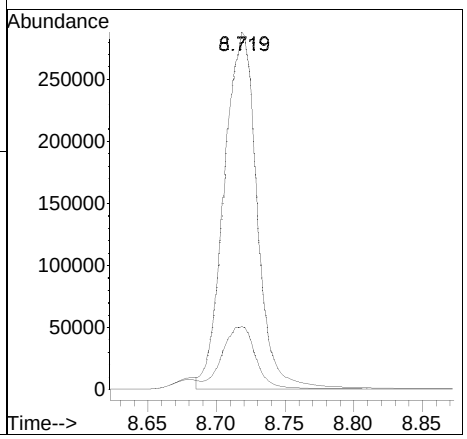


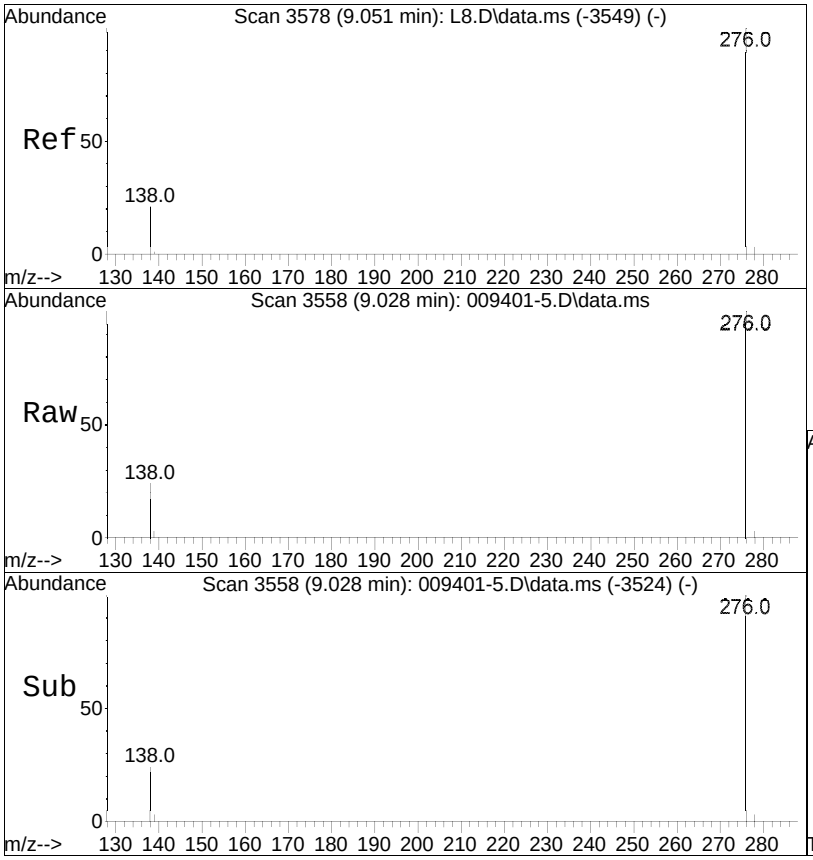


#41
Dibenzo[a,h]anthracene
Concen: 1987.69 ng/ml M6
RT: 8.719 min Scan# 3429
Delta R.T. -0.026 min
Lab File: 009401-5.D
Acq: 16 Dec 2024 10:58 am

Tgt Ion:278 Resp: 478416

Ion	Ratio	Lower	Upper
278	100		
139	18.2	9.8	14.8#

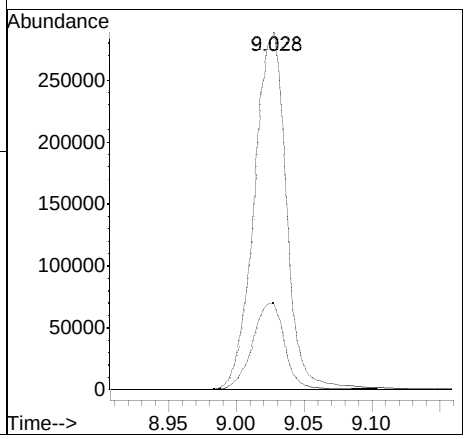




#42
Benzo[g,h,i]perylene
Concen: 1892.37 ng/ml
RT: 9.028 min Scan# 3558
Delta R.T. -0.019 min
Lab File: 009401-5.D
Acq: 16 Dec 2024 10:58 am

Tgt Ion:276 Resp: 469041

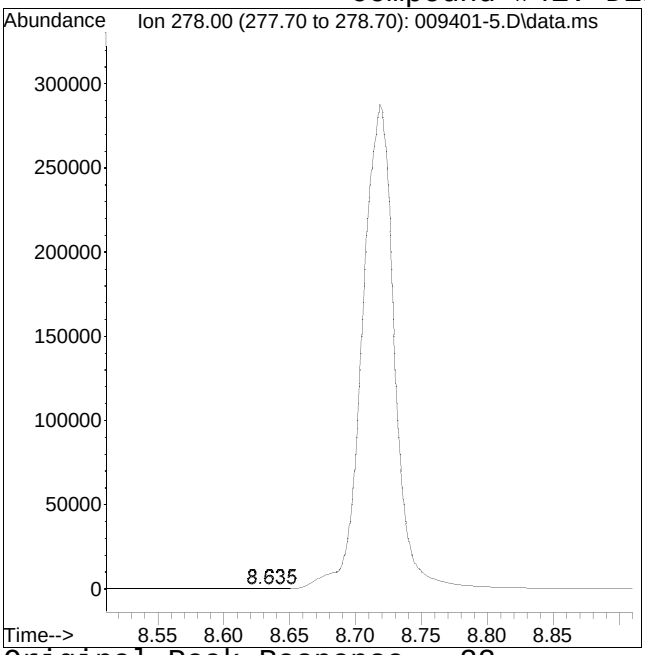
Ion	Ratio	Lower	Upper
276	100		
138	24.5	12.8	19.2#



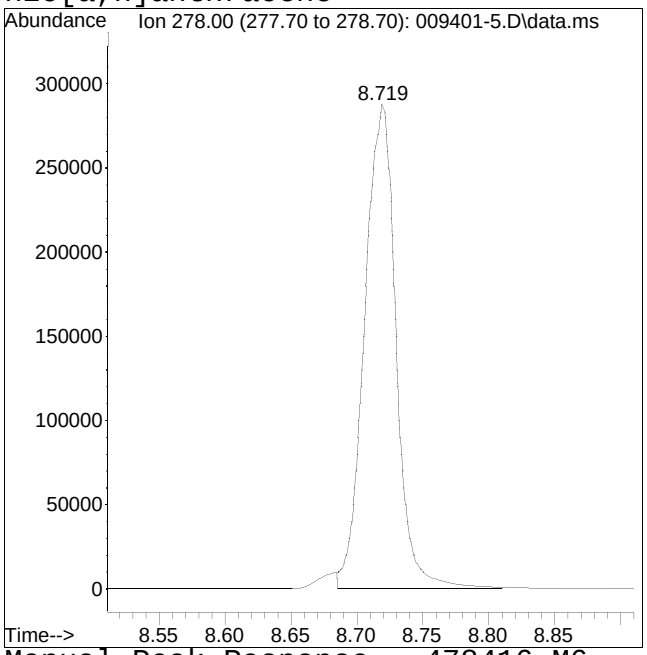
Manual Integration Report

Data Path : I:\8270SIM\SV118\241216RVTQMethod : SIM-RVT_241025sv118.M
Data File : 009401-5.D Operator : SV118:dv
Date Inj'd : 12/16/2024 10:58 am Instrument : SV118
Sample : WG2009401-5,32,,kmh Quant Date : 12/16/2024 11:11 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 22



Manual Peak Response = 478416 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)

Dec 17 2024, 03:10 pm

Work Group: WG2009401 for Department: 2 Organic Preparation

Created: 15-DEC-24 Due: Operator: NBD

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2473162-01	MW-11S	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	1219	1219	S0	Amber-A.1
L2473162-02	MW-11D	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	1219	1219	S0	Amber-A.1
L2473162-03	MW-1SR	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	1219	1219	S0	Amber-A.1
L2473162-04	MW-1DR2	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	1219	1219	S0	Amber-A.1
L2473162-05	MP-1	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	1219	1219	S0	Amber-A.1
L2473162-06	MP-1D	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	1219	1219	S0	Amber-A.1
L2473162-07	DUP_121224	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	1219	1219	S0	Amber-A.1
L2473162-08	MW-13S	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	1219	1219	S0	Amber-A.1
L2473162-09	MW-13D	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	1219	1219	S0	Amber-A.1
L2473162-10	EB_121224	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	1219	1219	S0	Amber-A.1
WG2009401-1	Laboratory Method Bl	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG2009401-2	Laboratory Control S	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG2009401-3	LCS Duplicate	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG2009401-4	Matrix Spike	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG2009401-5	Matrix Spike Duplica	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				

Comments:

WG2009401-3	WG2009401-2
WG2009401-4	L2473162-06
WG2009401-5	L2473162-06

Analysis log File

Total Files Reported in Log : 15
Log Generated From Directory: I:\8270SIM\SV118\241025RVTical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	L8scan.D	SIM-RVT.M	1000 ng/ml		10/25/2024 2:23 pm
2	L8scana.D	SIM-RVT.M	1000 ng/ml		10/25/2024 2:51 pm
3	TUNE.D	DFTPPRUN.M	TUNE	WG1990947,,ical	10/25/2024 3:53 pm
4	L10.D	SIM-RVT.M	IL10,32,, #10885 5000 n	WG1990947,,ical	10/25/2024 4:43 pm
5	L9.D	SIM-RVT.M	IL9,32,, #10901 2500 ng	WG1990947,,ical	10/25/2024 5:01 pm
6	L8.D	SIM-RVT.M	IL8,32,, #10888 1000 ng	WG1990947,,ical	10/25/2024 5:19 pm
7	L7.D	SIM-RVT.M	IL7,32,, #10889 500 ng/	WG1990947,,ical	10/25/2024 5:37 pm
8	L6.D	SIM-RVT.M	IL6,32,, #10899 100 ng/	WG1990947,,ical	10/25/2024 5:55 pm
9	L5.D	SIM-RVT.M	IL5,32,, #10891 40 ng/m	WG1990947,,ical	10/25/2024 6:12 pm
10	L4.D	SIM-RVT.M	IL4,32,, #10892 10 ng/m	WG1990947,,ical	10/25/2024 6:29 pm
11	L3.D	SIM-RVT.M	IL3,32,, #10893 5 ng/ml	WG1990947,,ical	10/25/2024 6:46 pm
12	L2.D	SIM-RVT.M	IL2,32,, #10900 2 ng/ml	WG1990947,,ical	10/25/2024 7:03 pm
13	L1.D	SIM-RVT.M	IL1,32,, #10895 1 ng/ml	WG1990947,,ical	10/25/2024 7:21 pm
14	ICV.D	SIM-RVT.M	QCICV,32,, #10884 1000	WG1990947,,ical	10/25/2024 7:38 pm
15	instblk.D	SIM-RVT.M			10/25/2024 7:55 pm

Printed: 10/30/24 Page: 1

Dep.: GCMS
Inst: SV118
Date: **12/16/24**
Run:

Method
GC: SIM RVT

Seq: WG2009609
ICAL: 21646

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
48	deg1216	wg-1,32,,dftpp SV118 lot #11205				12/16 kmh
49	ccv1216	wg-3,32,,ICV 10884 (1130a)				12/16 kmh
50	blank1216	instrument blank				
1	009401-1	WG2009401-1,32,,kmh				12/17 DV
2	009401-2	WG2009401-2,32,,kmh				12/17 DV
3	009401-3	WG2009401-3,32,,kmh				12/17 DV
4	73162-01	L2473162-01,32,,kmh				12/17 DV
5	73162-02	L2473162-02,32,,kmh				12/17 DV
6	73162-03	L2473162-03,32,,kmh				12/17 DV
7	73162-04	L2473162-04,32,,kmh				12/17 DV
8	73162-05	L2473162-05,32,,kmh				12/17 DV
9	73162-06	L2473162-06,32,,kmh				12/17 DV
10	009401-4	WG2009401-4,32,,kmh				12/17 DV
11	009401-5	WG2009401-5,32,,kmh				12/17 DV
12	73162-07	L2473162-07,32,,kmh				12/17 DV
13	73162-08	L2473162-08,32,,kmh				12/17 DV
14	73162-09	L2473162-09,32,,kmh				12/17 DV
15	73162-10	L2473162-10,32,,kmh				12/17 DV
16	73668-17	L2473668-17,32,,R3B,kmh				12/17 DV
17	008727-2	WG2008727-2,32,,RR,kmh				12/16 kmh
18	008727-3	WG2008727-3,32,,RV,kmh				12/16 kmh
19	245-12d1	L2472245-12d,32,2,RV,kmh				12/17 kmh
20	245-11d1	L2472245-11d,32,20,RV,kmh	RR- low IS			12/17 kmh
21	009504-2	WG2009504-2,32,,kmh	RV- low IS		SV-HNY	12/17 DV
22	009504-3	WG2009504-3,32,,kmh	RR			12/17 DV
23	009504-1	WG2009504-1,32,,kmh				12/17 DV
24	72501-01	L2472501-01,32,,kmh				12/17 DV
25	72501-02	L2472501-02,32,,kmh				12/17 DV
26	72501-03	L2472501-03,32,,kmh				12/17 DV
27	72930-07	L2472930-07,32,,kmh	RV low IS, no surro			12/17 DV
28	72930-08	L2472930-08,32,,kmh				12/17 DV
29	72930-09	L2472930-09,32,,kmh				12/17 DV
30	72930-10	L2472930-10,32,,kmh				12/17 DV
31	72930-11	L2472930-11,32,,kmh				12/17 DV
32	72930-12	L2472930-12,32,,kmh				12/17 DV
33	009510-2	WG2009510-2,32,,kmh				12/17 DV
34	009510-3	WG2009510-3,32,,kmh				12/17 DV
35	009510-1	WG2009510-1,32,,kmh				12/17 DV
36	72254-07	L2472254-07,32,,kmh			KMH	12/17 DV
37	009322-2	WG2009322-2,32,,RV(IS),jjw				12/17 JJW
38	009322-3	WG2009322-3,32,,RR,jjw				12/17 JJW
39	72058-16	L2472058-16,32,,RV(IS),jjw				12/17 JJW
40	72058-17	L2472058-17,32,,RV(IS),jjw	RR - OTT		JJW	12/17 JJW
					Sv-gmr	

ORGANIC ELN REPORT

Workgroup: WG2009401

Prep Method: EPA 3510C
Solvent Type: DCM
Surrogate Type: ABN
Spike Type: ABN-SIM
Spike Verify by: RET
Lims Spikelot: 8270-RVT

Lot #: EJ507
Lot #: 11164at,05/20/2025,4c,7,1
Lot #: 11106ae-042325, 11092af,03/3

Additional Reagents/Stds

H2SO4	A120224
Na2SO4	23K2961078
NaOH	10NNaOH120224

Conc.Method: Buchi
Solvent Type: DCM
Lot #: ej507

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
L2473162-01 SAMP	12/15/24 11:38	Ryan Trenholm	100	<2, >12	.1		12/15/24 17:14	Victor Kono	1	K
L2473162-02 SAMP	12/15/24 11:38	Ryan Trenholm	100	<2, >12	.1		12/15/24 17:14	Victor Kono	1	K
L2473162-03 SAMP	12/15/24 11:38	Ryan Trenholm	100	<2, >12	.1		12/15/24 17:14	Victor Kono	1	K
L2473162-04 SAMP	12/15/24 11:38	Ryan Trenholm	100	<2, >12	.1		12/15/24 17:14	Victor Kono	1	K
L2473162-05 SAMP	12/15/24 11:38	Ryan Trenholm	100	<2, >12	.1		12/15/24 17:14	Victor Kono	1	K
L2473162-06 SAMP	12/15/24 11:38	Ryan Trenholm	100	<2, >12	.1		12/15/24 17:14	Victor Kono	1	K
L2473162-07 SAMP	12/15/24 11:38	Ryan Trenholm	100	<2, >12	.1		12/15/24 17:14	Victor Kono	1	K

Reported: 17-DEC-24 03:10 PM

ORGANIC ELN REPORT

Workgroup: WG2009401

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
L2473162-08 SAMP	12/15/24 11:38	Ryan Trenholm	100	<2, >12	.1		12/15/24 17:14	Victor Kono	1	K
L2473162-09 SAMP	12/15/24 11:38	Ryan Trenholm	100	<2, >12	.1		12/15/24 17:14	Victor Kono	1	K
L2473162-10 SAMP	12/15/24 11:38	Ryan Trenholm	100	<2, >12	.1		12/15/24 17:15	Victor Kono	1	K
WG2009401-1 BLANK	12/15/24 11:38	Ryan Trenholm	100	<2, >12	.1		12/15/24 17:14	Victor Kono	1	K
	WG2009399,WG2009400,WG2009401									
WG2009401-2 LCS	12/15/24 11:38	Ryan Trenholm	100	<2, >12	.1	.1	12/15/24 17:14	Victor Kono	1	K
WG2009401-3 LCSD	12/15/24 11:38	Ryan Trenholm	100	<2, >12	.1	.1	12/15/24 17:14	Victor Kono	1	K
WG2009401-4 MS	12/15/24 11:38	Ryan Trenholm	100	<2, >12	.1	.1	12/15/24 17:14	Victor Kono	1	K
WG2009401-5 MSD	12/15/24 11:38	Ryan Trenholm	100	<2, >12	.1	.1	12/15/24 17:14	Victor Kono	1	K

Metals

Inorganic Data
(ICP Analysis)

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-01	**Date Collected**	: 12/12/24 08:25
Client ID	: MW-11S	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 22:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG2010540.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 12/17/24

		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	0.0261	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	29.6	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	0.0132	0.0500	0.0090	J
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	9.79	0.100	0.0153	
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	1.20	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	4.03	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	0.0028	0.0050	0.0021	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2473162
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2473162-02	Date Collected	: 12/12/24 08:42
Client ID	: MW-11D	Date Received	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 12/18/24 22:57
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2010540.pdf	Instrument ID	: TRACE8
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/17/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	0.127	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	0.0279	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	3.35	0.0500	0.0090	
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	5.94	0.100	0.0153	
7439-96-5	Manganese, Total	0.0534	0.0100	0.0016	
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	0.973	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	8.09	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	: L2473162
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2473162-03	Date Collected	: 12/12/24 09:50
Client ID	: MW-1SR	Date Received	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 12/18/24 23:02
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2010540.pdf	Instrument ID	: TRACE8
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/17/24

		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	0.0369	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	23.8	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	0.0152	0.0500	0.0090	J
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	4.37	0.100	0.0153	
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	3.10	2.50	0.237	
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	9.82	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	: L2473162
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2473162-04	Date Collected	: 12/12/24 10:10
Client ID	: MW-1DR2	Date Received	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 12/18/24 23:38
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2010540.pdf	Instrument ID	: TRACE8
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/17/24

		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	0.0026	0.0050	0.0019	J
7440-39-3	Barium, Total	0.0229	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	9.98	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	0.0024	0.0200	0.0017	J
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	2.83	0.0500	0.0090	
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	4.68	0.100	0.0153	
7439-96-5	Manganese, Total	0.0341	0.0100	0.0016	
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.01	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	9.11	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	0.0055	0.0050	0.0021	

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Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2473162
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2473162-05	Date Collected	: 12/12/24 11:40
Client ID	: MP-1	Date Received	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 12/18/24 23:42
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2010540.pdf	Instrument ID	: TRACE8
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/17/24

		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	0.0210	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	21.3	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	0.0113	0.0500	0.0090	J
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	6.36	0.100	0.0153	
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	2.29	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	14.0	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	: L2473162
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2473162-06	Date Collected	: 12/12/24 12:05
Client ID	: MP-1D	Date Received	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 12/18/24 23:06
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2010540.pdf	Instrument ID	: TRACE8
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/17/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	0.0689	0.100	0.0318	J
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	0.0141	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	17.9	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	0.0825	0.0500	0.0090	
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	9.24	0.100	0.0153	
7439-96-5	Manganese, Total	0.0027	0.0100	0.0016	J
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.50	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	14.7	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	: L2473162
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2473162-07	Date Collected	: 12/12/24 12:00
Client ID	: DUP_121224	Date Received	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 12/18/24 23:47
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2010540.pdf	Instrument ID	: TRACE8
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/17/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	0.0706	0.100	0.0318	J
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	0.0019	0.0050	0.0019	J
7440-39-3	Barium, Total	0.0142	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	17.7	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	0.0899	0.0500	0.0090	
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	9.24	0.100	0.0153	
7439-96-5	Manganese, Total	0.0027	0.0100	0.0016	J
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.52	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	14.9	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

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Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2473162
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2473162-08	Date Collected	: 12/12/24 14:00
Client ID	: MW-13S	Date Received	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 12/18/24 23:51
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2010540.pdf	Instrument ID	: TRACE8
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/17/24

		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	0.0898	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	99.5	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	0.0121	0.0500	0.0090	J
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	22.2	0.100	0.0153	
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	3.09	2.50	0.237	
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	5.37	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	: L2473162
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2473162-09	Date Collected	: 12/12/24 14:05
Client ID	: MW-13D	Date Received	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 12/18/24 23:55
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2010540.pdf	Instrument ID	: TRACE8
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/17/24

		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	0.0259	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	10.9	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	0.0278	0.0500	0.0090	J
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	5.28	0.100	0.0153	
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	1.17	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	15.3	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	ND	0.0050	0.0021	U

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Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2473162
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2473162-10	Date Collected	: 12/12/24 13:30
Client ID	: EB_121224	Date Received	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 12/19/24 00:00
Sample Matrix	: Equipment Blank	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2010540.pdf	Instrument ID	: TRACE8
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/17/24

		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	ND	0.100	0.0350	U
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	: L2473162
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: WG2010362-1	Date Collected	: NA
Client ID	: WG2010362-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 12/18/24 10:52
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2010540.pdf	Instrument ID	: TRACE8
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/17/24

		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	ND	0.100	0.0350	U
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

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010362-4	**Date Collected**	: 12/09/24 10:42
Client ID	: WG2010362-4 DUP	**Date Received**	: 12/11/24
Sample Location	:	**Date Analyzed**	: 12/18/24 12:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG2010540.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 12/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-70-2	Calcium, Total	44.0	0.100	0.035	
7439-95-4	Magnesium, Total	5.65	0.100	0.015	

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010362-10	**Date Collected**	:
Client ID	: Serial Dilution	**Date Received**	:
Sample Location	:	**Date Analyzed**	: 12/18/24 23:24
Sample Matrix	: WATER	**Dilution Factor**	: 5
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG2010540.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 12/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-70-2	Calcium, Total	17.4	0.500	0.175	
7439-95-4	Magnesium, Total	8.71	0.500	0.077	

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Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2473162
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2473162-01	Date Collected	: 12/12/24 08:25
Client ID	: MW-11S	Date Received	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 12/19/24 11:39
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2011105.pdf	Instrument ID	: TRACE8
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/17/24

		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	0.0260	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	31.3	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	10.5	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	1.17	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	3.88	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	0.0029	0.0050	0.0021	J

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Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2473162
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2473162-02	Date Collected	: 12/12/24 08:42
Client ID	: MW-11D	Date Received	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 12/19/24 11:43
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2011105.pdf	Instrument ID	: TRACE8
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/17/24

		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	0.0263	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	16.3	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	2.87	0.0500	0.0090	
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	6.32	0.100	0.0153	
7439-96-5	Manganese, Dissolved	0.0552	0.0100	0.0016	
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	0.917	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	7.73	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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METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-03	**Date Collected**	: 12/12/24 09:50
Client ID	: MW-1SR	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 12:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG2011105.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 12/17/24

		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	0.0355	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	24.8	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	4.58	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	2.93	2.50	0.237	
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	9.28	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	: L2473162
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2473162-04	Date Collected	: 12/12/24 10:10
Client ID	: MW-1DR2	Date Received	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 12/19/24 12:38
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2011105.pdf	Instrument ID	: TRACE8
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/17/24

		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	0.0025	0.0050	0.0019	J
7440-39-3	Barium, Dissolved	0.0224	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	10.6	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	0.0029	0.0200	0.0017	J
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	2.19	0.0500	0.0090	
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	5.05	0.100	0.0153	
7439-96-5	Manganese, Dissolved	0.0352	0.0100	0.0016	
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	0.990	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	8.83	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	0.0058	0.0050	0.0021	

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Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2473162
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2473162-05	Date Collected	: 12/12/24 11:40
Client ID	: MP-1	Date Received	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 12/19/24 12:42
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2011105.pdf	Instrument ID	: TRACE8
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/17/24

		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	0.0209	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	22.7	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	6.84	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	2.27	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	13.6	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
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Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2473162
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2473162-06	Date Collected	: 12/12/24 12:05
Client ID	: MP-1D	Date Received	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 12/19/24 11:48
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2011105.pdf	Instrument ID	: TRACE8
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/17/24

		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	0.0142	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	19.5	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	0.0102	0.0500	0.0090	J
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	10.3	0.100	0.0153	
7439-96-5	Manganese, Dissolved	0.0019	0.0100	0.0016	J
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	1.50	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	14.6	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-07	**Date Collected**	: 12/12/24 12:00
Client ID	: DUP_121224	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 12:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG2011105.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 12/17/24

		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	0.0136	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	18.7	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	0.0140	0.0500	0.0090	J
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	9.77	0.100	0.0153	
7439-96-5	Manganese, Dissolved	0.0018	0.0100	0.0016	J
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	1.44	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	14.0	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	0.0030	0.0050	0.0021	J

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Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2473162
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2473162-08	Date Collected	: 12/12/24 14:00
Client ID	: MW-13S	Date Received	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 12/19/24 12:47
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2011105.pdf	Instrument ID	: TRACE8
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/17/24

		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	0.0886	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	105.	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	23.6	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	3.01	2.50	0.237	
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	5.10	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	0.0025	0.0050	0.0021	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-09	**Date Collected**	: 12/12/24 14:05
Client ID	: MW-13D	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 12:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG2011105.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 12/17/24

		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	0.0255	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	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	5.58	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	1.15	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	14.8	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	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2473162
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2473162-10	Date Collected	: 12/12/24 13:30
Client ID	: EB_121224	Date Received	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 12/19/24 13:27
Sample Matrix	: Equipment Blank	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2011105.pdf	Instrument ID	: TRACE8
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/17/24

		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	0.0093	0.0500	0.0090	J
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	ND	0.0100	0.0016	U
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010403-1	**Date Collected**	: NA
Client ID	: WG2010403-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/19/24 11:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG2011105.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 12/17/24

		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	ND	0.0100	0.0016	U
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010403-6	**Date Collected**	:
Client ID	: Serial Dilution	**Date Received**	:
Sample Location	:	**Date Analyzed**	: 12/19/24 12:05
Sample Matrix	: WATER	**Dilution Factor**	: 5
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG2011105.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 12/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-70-2	Calcium, Dissolved	18.1	0.500	0.175	
7439-95-4	Magnesium, Dissolved	9.18	0.500	0.077	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010403-8	**Date Collected**	: 12/12/24 12:00
Client ID	: DUP_121224DUP	**Date Received**	: 12/12/24
Sample Location	:	**Date Analyzed**	: 12/19/24 13:04
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG2011105.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 12/17/24

		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	0.0135	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	18.4	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	ND	0.0100	0.002	U
7439-89-6	Iron, Dissolved	0.0150	0.0500	0.009	J
7439-92-1	Lead, Dissolved	ND	0.0100	0.003	U
7439-95-4	Magnesium, Dissolved	9.55	0.100	0.015	
7439-96-5	Manganese, Dissolved	0.0018	0.0100	0.002	J
7440-02-0	Nickel, Dissolved	ND	0.0250	0.002	U
7440-09-7	Potassium, Dissolved	1.43	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	13.8	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	ND	0.0050	0.002	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010403-10	**Date Collected**	:
Client ID	: Serial Dilution	**Date Received**	:
Sample Location	:	**Date Analyzed**	: 12/19/24 13:13
Sample Matrix	: WATER	**Dilution Factor**	: 5
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG2011105.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 12/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-70-2	Calcium, Dissolved	17.9	0.500	0.175	
7439-95-4	Magnesium, Dissolved	9.03	0.500	0.077	

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1912834-1									
Date Analyzed	:	12/18/24 06:02									
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum		0.500	0.4670	93							
Antimony		0.500	0.5040	101							
Arsenic		0.500	0.4800	96							
Barium		0.500	0.4750	95							
Beryllium		0.500	0.4940	99							
Cadmium		0.500	0.4980	100							
Calcium		0.500	0.4830	97							
Chromium		0.500	0.4910	98							
Cobalt		0.500	0.5110	102							
Copper		0.500	0.4840	97							
Iron		0.500	0.4990	100							
Lead		0.500	0.4810	96							
Magnesium		0.500	0.4980	100							
Manganese		0.500	0.4780	96							
Nickel		0.500	0.5070	101							
Potassium		5.00	5.0600	101							
Selenium		0.500	0.4810	96							
Silver		0.500	0.4810	96							
Sodium		10.0	9.7200	97							
Thallium		0.500	0.4870	97							
Vanadium		0.500	0.4910	98							
Zinc		0.500	0.5000	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1912834-3			R1912834-6			R1912834-8		R1912834-10	
Date Analyzed :	12/18/24 06:11			12/18/24 07:51			12/18/24 08:58		12/18/24 09:57	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.4750	95	0.5000	0.468	94	0.478	96	0.473	95
Antimony	0.500	0.5040	101	0.5000	0.498	100	0.499	100	0.501	100
Arsenic	0.500	0.4880	98	0.5000	0.478	96	0.478	96	0.479	96
Barium	0.500	0.4910	98	0.5000	0.485	97	0.485	97	0.485	97
Beryllium	0.500	0.5070	101	0.5000	0.501	100	0.505	101	0.503	101
Cadmium	0.500	0.5060	101	0.5000	0.493	99	0.498	100	0.491	98
Calcium	0.500	0.4960	99	0.5000	0.490	98	0.498	100	0.488	98
Chromium	0.500	0.4960	99	0.5000	0.486	97	0.490	98	0.488	98
Cobalt	0.500	0.5200	104	0.5000	0.508	102	0.512	102	0.508	102
Copper	0.500	0.4930	99	0.5000	0.480	96	0.480	96	0.484	97
Iron	0.500	0.5030	101	0.5000	0.500	100	0.516	103	0.528	106
Lead	0.500	0.4900	98	0.5000	0.482	96	0.484	97	0.485	97
Magnesium	0.500	0.5040	101	0.5000	0.492	98	0.494	99	0.493	99
Manganese	0.500	0.4890	98	0.5000	0.482	96	0.484	97	0.482	96
Nickel	0.500	0.5140	103	0.5000	0.504	101	0.507	101	0.506	101
Potassium	5.00	5.1300	103	5.0000	5.13	103	5.15	103	5.10	102
Selenium	0.500	0.4890	98	0.5000	0.479	96	0.479	96	0.483	97
Silver	0.500	0.4880	98	0.5000	0.476	95	0.478	96	0.481	96
Sodium	10.0	10.2000	102	10.0000	10.0	100	9.98	100	9.94	99
Thallium	0.500	0.4970	99	0.5000	0.483	97	0.483	97	0.487	97
Vanadium	0.500	0.5010	100	0.5000	0.490	98	0.491	98	0.490	98
Zinc	0.500	0.5080	102	0.5000	0.498	100	0.502	100	0.495	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1912834-12			R1912834-14		R1912834-16	
Date Analyzed :				12/18/24 10:41			12/18/24 11:23		12/18/24 12:13	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.476	95	0.468	94	0.470	94
Antimony				0.5000	0.490	98	0.505	101	0.495	99
Arsenic				0.5000	0.481	96	0.479	96	0.472	94
Barium				0.5000	0.489	98	0.490	98	0.486	97
Beryllium				0.5000	0.501	100	0.502	100	0.502	100
Cadmium				0.5000	0.485	97	0.487	97	0.489	98
Calcium				0.5000	0.488	98	0.487	97	0.489	98
Chromium				0.5000	0.482	96	0.484	97	0.484	97
Cobalt				0.5000	0.501	100	0.506	101	0.504	101
Copper				0.5000	0.484	97	0.486	97	0.485	97
Iron				0.5000	0.527	105	0.501	100	0.499	100
Lead				0.5000	0.485	97	0.483	97	0.475	95
Magnesium				0.5000	0.489	98	0.489	98	0.488	98
Manganese				0.5000	0.480	96	0.482	96	0.480	96
Nickel				0.5000	0.498	100	0.501	100	0.501	100
Potassium				5.0000	5.12	102	5.12	102	5.11	102
Selenium				0.5000	0.488	98	0.482	96	0.480	96
Silver				0.5000	0.476	95	0.478	96	0.476	95
Sodium				10.0000	10.1	101	9.99	100	10.1	101
Thallium				0.5000	0.487	97	0.484	97	0.476	95
Vanadium				0.5000	0.486	97	0.489	98	0.489	98
Zinc				0.5000	0.489	98	0.491	98	0.492	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1912834-18			R1912834-20		R1912834-22	
Date Analyzed :				12/18/24 12:59			12/18/24 13:57		12/18/24 14:50	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.468	94	0.470	94	0.470	94
Antimony				0.5000	0.501	100	0.488	98	0.484	97
Arsenic				0.5000	0.478	96	0.472	94	0.472	94
Barium				0.5000	0.487	97	0.486	97	0.488	98
Beryllium				0.5000	0.502	100	0.499	100	0.499	100
Cadmium				0.5000	0.489	98	0.483	97	0.482	96
Calcium				0.5000	0.489	98	0.481	96	0.484	97
Chromium				0.5000	0.482	96	0.480	96	0.479	96
Cobalt				0.5000	0.503	101	0.498	100	0.496	99
Copper				0.5000	0.485	97	0.480	96	0.479	96
Iron				0.5000	0.502	100	0.504	101	0.517	103
Lead				0.5000	0.485	97	0.484	97	0.481	96
Magnesium				0.5000	0.487	97	0.483	97	0.481	96
Manganese				0.5000	0.480	96	0.480	96	0.477	95
Nickel				0.5000	0.498	100	0.498	100	0.494	99
Potassium				5.0000	5.19	104	5.16	103	5.17	103
Selenium				0.5000	0.485	97	0.480	96	0.481	96
Silver				0.5000	0.475	95	0.472	94	0.471	94
Sodium				10.0000	10.2	102	10.1	101	10.1	101
Thallium				0.5000	0.485	97	0.482	96	0.477	95
Vanadium				0.5000	0.489	98	0.486	97	0.485	97
Zinc				0.5000	0.490	98	0.487	97	0.483	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1912834-24			R1912834-26		R1912834-28	
Date Analyzed :				12/18/24 15:43			12/18/24 16:37		12/18/24 17:53	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.465	93	0.472	94	0.468	94
Antimony				0.5000	0.487	97	0.489	98	0.489	98
Arsenic				0.5000	0.473	95	0.469	94	0.469	94
Barium				0.5000	0.487	97	0.490	98	0.486	97
Beryllium				0.5000	0.499	100	0.499	100	0.497	99
Cadmium				0.5000	0.486	97	0.480	96	0.466	93
Calcium				0.5000	0.482	96	0.481	96	0.481	96
Chromium				0.5000	0.484	97	0.481	96	0.471	94
Cobalt				0.5000	0.500	100	0.499	100	0.490	98
Copper				0.5000	0.481	96	0.481	96	0.488	98
Iron				0.5000	0.497	99	0.501	100	0.494	99
Lead				0.5000	0.485	97	0.480	96	0.474	95
Magnesium				0.5000	0.486	97	0.485	97	0.478	96
Manganese				0.5000	0.478	96	0.479	96	0.476	95
Nickel				0.5000	0.499	100	0.496	99	0.487	97
Potassium				5.0000	5.16	103	5.13	103	5.10	102
Selenium				0.5000	0.479	96	0.477	95	0.487	97
Silver				0.5000	0.474	95	0.473	95	0.478	96
Sodium				10.0000	10.2	102	10.1	101	10.1	101
Thallium				0.5000	0.480	96	0.476	95	0.476	95
Vanadium				0.5000	0.489	98	0.487	97	0.478	96
Zinc				0.5000	0.487	97	0.481	96	0.467	93

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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1912834-30			R1912834-32		R1912834-34	
Date Analyzed :				12/18/24 18:56			12/18/24 19:54		12/18/24 20:29	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.468	94	0.477	95	0.469	94
Antimony				0.5000	0.484	97	0.485	97	0.486	97
Arsenic				0.5000	0.470	94	0.468	94	0.469	94
Barium				0.5000	0.491	98	0.490	98	0.493	99
Beryllium				0.5000	0.500	100	0.500	100	0.499	100
Cadmium				0.5000	0.480	96	0.477	95	0.478	96
Calcium				0.5000	0.479	96	0.482	96	0.478	96
Chromium				0.5000	0.480	96	0.480	96	0.479	96
Cobalt				0.5000	0.499	100	0.497	99	0.498	100
Copper				0.5000	0.482	96	0.486	97	0.487	97
Iron				0.5000	0.505	101	0.516	103	0.506	101
Lead				0.5000	0.484	97	0.484	97	0.483	97
Magnesium				0.5000	0.484	97	0.484	97	0.485	97
Manganese				0.5000	0.476	95	0.477	95	0.475	95
Nickel				0.5000	0.495	99	0.495	99	0.494	99
Potassium				5.0000	5.14	103	5.19	104	5.14	103
Selenium				0.5000	0.481	96	0.483	97	0.481	96
Silver				0.5000	0.474	95	0.475	95	0.475	95
Sodium				10.0000	10.1	101	10.2	102	10.2	102
Thallium				0.5000	0.480	96	0.477	95	0.478	96
Vanadium				0.5000	0.486	97	0.487	97	0.487	97
Zinc				0.5000	0.482	96	0.479	96	0.478	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 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1912834-36			R1912834-38		R1912834-40	
Date Analyzed :				12/18/24 21:25			12/18/24 22:19		12/18/24 22:33	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.476	95	0.472	94	0.471	94
Antimony				0.5000	0.482	96	0.480	96	0.477	95
Arsenic				0.5000	0.467	93	0.463	93	0.461	92
Barium				0.5000	0.490	98	0.494	99	0.492	98
Beryllium				0.5000	0.496	99	0.496	99	0.495	99
Cadmium				0.5000	0.469	94	0.470	94	0.469	94
Calcium				0.5000	0.486	97	0.518	104	0.519	104
Chromium				0.5000	0.474	95	0.473	95	0.473	95
Cobalt				0.5000	0.490	98	0.491	98	0.491	98
Copper				0.5000	0.480	96	0.479	96	0.480	96
Iron				0.5000	0.510	102	0.509	102	0.498	100
Lead				0.5000	0.481	96	0.478	96	0.478	96
Magnesium				0.5000	0.478	96	0.478	96	0.483	97
Manganese				0.5000	0.472	94	0.472	94	0.472	94
Nickel				0.5000	0.488	98	0.488	98	0.487	97
Potassium				5.0000	5.20	104	5.19	104	5.18	104
Selenium				0.5000	0.481	96	0.475	95	0.476	95
Silver				0.5000	0.470	94	0.468	94	0.468	94
Sodium				10.0000	10.1	101	10.2	102	10.1	101
Thallium				0.5000	0.475	95	0.473	95	0.471	94
Vanadium				0.5000	0.481	96	0.482	96	0.482	96
Zinc				0.5000	0.470	94	0.470	94	0.470	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1912834-42			R1912834-44			
Date Analyzed :				12/18/24 23:29			12/19/24 00:04			
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.467	93	0.469	94		
Antimony				0.5000	0.490	98	0.477	95		
Arsenic				0.5000	0.464	93	0.462	92		
Barium				0.5000	0.491	98	0.490	98		
Beryllium				0.5000	0.494	99	0.493	99		
Cadmium				0.5000	0.469	94	0.464	93		
Calcium				0.5000	0.474	95	0.474	95		
Chromium				0.5000	0.474	95	0.471	94		
Cobalt				0.5000	0.490	98	0.487	97		
Copper				0.5000	0.480	96	0.480	96		
Iron				0.5000	0.490	98	0.489	98		
Lead				0.5000	0.478	96	0.478	96		
Magnesium				0.5000	0.476	95	0.472	94		
Manganese				0.5000	0.472	94	0.469	94		
Nickel				0.5000	0.490	98	0.484	97		
Potassium				5.0000	5.19	104	5.14	103		
Selenium				0.5000	0.479	96	0.478	96		
Silver				0.5000	0.470	94	0.469	94		
Sodium				10.0000	10.2	102	10.1	101		
Thallium				0.5000	0.472	94	0.472	94		
Vanadium				0.5000	0.482	96	0.481	96		
Zinc				0.5000	0.468	94	0.463	93		

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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1913301-1									
Date Analyzed :	12/19/24 05:58									
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.4430	89							
Antimony	0.500	0.4940	99							
Arsenic	0.500	0.4700	94							
Barium	0.500	0.4500	90							
Beryllium	0.500	0.4700	94							
Cadmium	0.500	0.4860	97							
Calcium	0.500	0.4590	92							
Chromium	0.500	0.4800	96							
Cobalt	0.500	0.4990	100							
Copper	0.500	0.4800	96							
Iron	0.500	0.4750	95							
Lead	0.500	0.4750	95							
Magnesium	0.500	0.4880	98							
Manganese	0.500	0.4570	91							
Nickel	0.500	0.4960	99							
Potassium	5.00	4.7000	94							
Selenium	0.500	0.4760	95							
Silver	0.500	0.4760	95							
Sodium	10.0	9.1300	91							
Thallium	0.500	0.4780	96							
Vanadium	0.500	0.4820	96							
Zinc	0.500	0.4880	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1913301-3			R1913301-6			R1913301-8		R1913301-10	
Date Analyzed :	12/19/24 06:10			12/19/24 07:51			12/19/24 08:13		12/19/24 09:11	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.4750	95	0.5000	0.481	96	0.476	95	0.480	96
Antimony	0.500	0.4980	100	0.5000	0.508	102	0.508	102	0.508	102
Arsenic	0.500	0.4820	96	0.5000	0.479	96	0.478	96	0.476	95
Barium	0.500	0.4810	96	0.5000	0.488	98	0.484	97	0.485	97
Beryllium	0.500	0.5060	101	0.5000	0.515	103	0.509	102	0.512	102
Cadmium	0.500	0.4950	99	0.5000	0.509	102	0.508	102	0.504	101
Calcium	0.500	0.4990	100	0.5000	0.506	101	0.502	100	0.505	101
Chromium	0.500	0.4900	98	0.5000	0.502	100	0.501	100	0.501	100
Cobalt	0.500	0.5090	102	0.5000	0.524	105	0.521	104	0.520	104
Copper	0.500	0.4870	97	0.5000	0.493	99	0.494	99	0.498	100
Iron	0.500	0.5080	102	0.5000	0.518	104	0.522	104	0.527	105
Lead	0.500	0.4810	96	0.5000	0.487	97	0.486	97	0.480	96
Magnesium	0.500	0.4980	100	0.5000	0.510	102	0.511	102	0.510	102
Manganese	0.500	0.4930	99	0.5000	0.501	100	0.496	99	0.499	100
Nickel	0.500	0.5060	101	0.5000	0.519	104	0.518	104	0.517	103
Potassium	5.00	5.1000	102	5.0000	5.18	104	5.11	102	5.11	102
Selenium	0.500	0.4850	97	0.5000	0.481	96	0.480	96	0.480	96
Silver	0.500	0.4890	98	0.5000	0.498	100	0.497	99	0.498	100
Sodium	10.0	10.0000	100	10.0000	10.1	101	9.96	100	9.97	100
Thallium	0.500	0.4870	97	0.5000	0.491	98	0.487	97	0.483	97
Vanadium	0.500	0.4910	98	0.5000	0.502	100	0.501	100	0.500	100
Zinc	0.500	0.4990	100	0.5000	0.515	103	0.514	103	0.509	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1913301-12			R1913301-14		R1913301-16	
Date Analyzed :				12/19/24 10:04			12/19/24 11:08		12/19/24 12:10	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.485	97	0.489	98	0.489	98
Antimony				0.5000	0.509	102	0.513	103	0.520	104
Arsenic				0.5000	0.478	96	0.482	96	0.480	96
Barium				0.5000	0.483	97	0.485	97	0.486	97
Beryllium				0.5000	0.512	102	0.512	102	0.516	103
Cadmium				0.5000	0.506	101	0.511	102	0.512	102
Calcium				0.5000	0.508	102	0.512	102	0.516	103
Chromium				0.5000	0.498	100	0.505	101	0.507	101
Cobalt				0.5000	0.518	104	0.522	104	0.525	105
Copper				0.5000	0.496	99	0.500	100	0.500	100
Iron				0.5000	0.528	106	0.527	105	0.527	105
Lead				0.5000	0.487	97	0.490	98	0.492	98
Magnesium				0.5000	0.510	102	0.515	103	0.517	103
Manganese				0.5000	0.499	100	0.500	100	0.504	101
Nickel				0.5000	0.515	103	0.519	104	0.521	104
Potassium				5.0000	5.15	103	5.10	102	5.15	103
Selenium				0.5000	0.484	97	0.487	97	0.488	98
Silver				0.5000	0.497	99	0.502	100	0.502	100
Sodium				10.0000	10.0	100	10.1	101	10.1	101
Thallium				0.5000	0.488	98	0.492	98	0.492	98
Vanadium				0.5000	0.498	100	0.503	101	0.506	101
Zinc				0.5000	0.509	102	0.516	103	0.518	104

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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1913301-18			R1913301-20			
Date Analyzed :				12/19/24 13:18			12/19/24 13:49			
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.491	98	0.495	99		
Antimony				0.5000	0.512	102	0.508	102		
Arsenic				0.5000	0.482	96	0.482	96		
Barium				0.5000	0.483	97	0.488	98		
Beryllium				0.5000	0.514	103	0.516	103		
Cadmium				0.5000	0.510	102	0.509	102		
Calcium				0.5000	0.513	103	0.515	103		
Chromium				0.5000	0.503	101	0.504	101		
Cobalt				0.5000	0.522	104	0.521	104		
Copper				0.5000	0.501	100	0.505	101		
Iron				0.5000	0.522	104	0.544	109		
Lead				0.5000	0.492	98	0.494	99		
Magnesium				0.5000	0.513	103	0.513	103		
Manganese				0.5000	0.499	100	0.502	100		
Nickel				0.5000	0.518	104	0.519	104		
Potassium				5.0000	5.10	102	5.17	103		
Selenium				0.5000	0.491	98	0.491	98		
Silver				0.5000	0.501	100	0.503	101		
Sodium				10.0000	10.1	101	10.1	101		
Thallium				0.5000	0.495	99	0.494	99		
Vanadium				0.5000	0.502	100	0.504	101		
Zinc				0.5000	0.514	103	0.511	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 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1912834-2		R1912834-7		R1912834-9		R1912834-11		WG2010362-1	
Date Analyzed :	12/18/24 06:06		12/18/24 07:56		12/18/24 09:03		12/18/24 10:01		12/18/24 10:52	
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	0.00245	J	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	0.0016	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

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1912834-4		R1912834-13		R1912834-15		R1912834-17			
Date Analyzed :	12/18/24 06:15		12/18/24 10:45		12/18/24 11:28		12/18/24 12:18			
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	0.00216	J	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		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1912834-19		R1912834-21		R1912834-23			
Date Analyzed :			12/18/24 13:03		12/18/24 14:01		12/18/24 14:54			
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1912834-25		R1912834-27		R1912834-29			
Date Analyzed :			12/18/24 15:47		12/18/24 16:42		12/18/24 17:57			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum			0.0318	U	0.0318	U	0.0318	U		
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1912834-31		R1912834-33		R1912834-35			
Date Analyzed :			12/18/24 19:00		12/18/24 19:58		12/18/24 20:33			
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1912834-37		R1912834-39		R1912834-41			
Date Analyzed :			12/18/24 21:29		12/18/24 22:23		12/18/24 22:37			
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1912834-43		R1912834-45					
Date Analyzed :			12/18/24 23:33		12/19/24 00:09					
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				

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1913301-2		R1913301-7		R1913301-9		R1913301-11		WG2010403-1	
Date Analyzed :	12/19/24 06:02		12/19/24 07:56		12/19/24 08:17		12/19/24 09:16		12/19/24 11:25	
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	0.00192	J	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	0.0016	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

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1913301-4		R1913301-13		R1913301-15		R1913301-17			
Date Analyzed :	12/19/24 06:15		12/19/24 10:16		12/19/24 11:13		12/19/24 12:14			
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	0.00230	J		
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		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1913301-19		R1913301-21					
Date Analyzed :			12/19/24 13:22		12/19/24 13:53					
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				

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1912834-5							
Analysis Date :			12/18/24 06:24							
Analyte	**Sol. A**	**Sol. AB**	**Sol. A**	**%R**	**Sol. AB**	**%R**	**Sol. A**	**%R**	**Sol. AB**	**%R**
Aluminum	500		517.	103						
Antimony			-0.00491							
Arsenic			0.000848							
Barium			0.00139							
Beryllium			0.0000587							
Cadmium			-0.00126							
Calcium	500		470.	94						
Chromium			-0.0000968							
Cobalt			0.00000432							
Copper			0.000000395							
Iron	200		180.	90						
Lead			-0.00327							
Magnesium	500		464.	93						
Manganese			0.00153							
Nickel			0.0000270							
Potassium			-0.000863							
Selenium			-0.00283							
Silver			0.00106							
Sodium			0.0310							
Thallium			0.00162							
Vanadium			-0.000404							
Zinc			-0.00104							

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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1913301-5							
Analysis Date :			12/19/24 06:24							
Analyte	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	500		516.	103						
Antimony			-0.00690							
Arsenic			-0.00182							
Barium			0.00142							
Beryllium			0.0000622							
Cadmium			-0.00174							
Calcium	500		470.	94						
Chromium			0.000270							
Cobalt			-0.000316							
Copper			-0.000225							
Iron	200		180.	90						
Lead			-0.00992							
Magnesium	500		460.	92						
Manganese			0.00156							
Nickel			-0.000419							
Potassium			-0.0119							
Selenium			-0.00374							
Silver			0.00128							
Sodium			0.0202							
Thallium			0.000122							
Vanadium			-0.000105							
Zinc			-0.00106							

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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2472692-01		
Matrix Spike	: WG2010362-3	**MS Analysis Date**	: 12/18/24 12:41
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	0.938	2	3.11	109						75-125	20
Antimony, Total	ND	0.5	0.525	105						75-125	20
Arsenic, Total	0.003J	0.12	0.132	110						75-125	20
Barium, Total	0.256	2	2.28	101						75-125	20
Beryllium, Total	ND	0.05	0.0517	103						75-125	20
Cadmium, Total	ND	0.053	0.0546	103						75-125	20
Calcium, Total	44.0	10	53.4	94						75-125	20
Chromium, Total	ND	0.2	0.205	102						75-125	20
Cobalt, Total	ND	0.5	0.511	102						75-125	20
Copper, Total	0.004J	0.25	0.276	110						75-125	20
Iron, Total	0.196	1	1.18	98						75-125	20
Lead, Total	ND	0.53	0.565	107						75-125	20
Magnesium, Total	5.66	10	15.3	96						75-125	20
Manganese, Total	1.32	0.5	1.80	96						75-125	20
Nickel, Total	0.003J	0.5	0.496	99						75-125	20
Potassium, Total	35.8	10	47.5	117						75-125	20
Selenium, Total	ND	0.12	0.130	108						75-125	20
Silver, Total	ND	0.05	0.0528	106						75-125	20
Sodium, Total	349	10	355.	60	Q					75-125	20
Thallium, Total	ND	0.12	0.120	100						75-125	20
Vanadium, Total	0.003J	0.5	0.544	109						75-125	20
Zinc, Total	0.067	0.5	0.581	103						75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix**	: WATER
Lab Sample ID	: L2473162-06		
Matrix Spike	: WG2010362-7	**MS Analysis Date**	: 12/18/24 23:11
Matrix Spike Dup	: WG2010362-8	**MSD Analysis Date**	: 12/18/24 23:15

		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	0.0689J	2	2.30	115		2	2.26	113	2	75-125	20
Antimony, Total	ND	0.5	0.454	91		0.5	0.451	90	1	75-125	20
Arsenic, Total	ND	0.12	0.124	103		0.12	0.118	98	5	75-125	20
Barium, Total	0.0141	2	2.10	104		2	2.06	102	2	75-125	20
Beryllium, Total	ND	0.05	0.0523	105		0.05	0.0509	102	3	75-125	20
Cadmium, Total	ND	0.053	0.0539	102		0.053	0.0526	99	2	75-125	20
Calcium, Total	17.9	10	27.6	97		10	27.0	91	2	75-125	20
Chromium, Total	ND	0.2	0.210	105		0.2	0.203	102	3	75-125	20
Cobalt, Total	ND	0.5	0.522	104		0.5	0.506	101	3	75-125	20
Copper, Total	ND	0.25	0.269	108		0.25	0.262	105	3	75-125	20
Iron, Total	0.0825	1	1.09	101		1	1.06	98	3	75-125	20
Lead, Total	ND	0.53	0.562	106		0.53	0.542	102	4	75-125	20
Magnesium, Total	9.24	10	19.5	103		10	18.9	97	3	75-125	20
Manganese, Total	0.0027J	0.5	0.501	100		0.5	0.487	97	3	75-125	20
Nickel, Total	ND	0.5	0.509	102		0.5	0.493	99	3	75-125	20
Potassium, Total	1.50J	10	12.8	128	Q	10	12.4	124	3	75-125	20
Selenium, Total	ND	0.12	0.125	104		0.12	0.123	102	2	75-125	20
Silver, Total	ND	0.05	0.0523	105		0.05	0.0509	102	3	75-125	20
Sodium, Total	14.7	10	25.6	109		10	25.1	104	2	75-125	20
Thallium, Total	ND	0.12	0.126	105		0.12	0.123	102	2	75-125	20
Vanadium, Total	ND	0.5	0.543	109		0.5	0.527	105	3	75-125	20
Zinc, Total	ND	0.5	0.504	101		0.5	0.488	98	3	75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix**	: WATER
Lab Sample ID	: L2473162-06		
Matrix Spike	: WG2010403-3	**MS Analysis Date**	: 12/19/24 11:52
Matrix Spike Dup	: WG2010403-4	**MSD Analysis Date**	: 12/19/24 11:57

		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	2.16	108	2	2.12	106	2	75-125	20
Antimony, Dissolved	ND	0.5	0.464	93	0.5	0.462	92	0	75-125	20
Arsenic, Dissolved	ND	0.12	0.122	102	0.12	0.120	100	2	75-125	20
Barium, Dissolved	0.0142	2	2.05	102	2	2.00	99	2	75-125	20
Beryllium, Dissolved	ND	0.05	0.0529	106	0.05	0.0517	103	2	75-125	20
Cadmium, Dissolved	ND	0.053	0.0577	109	0.053	0.0568	107	2	75-125	20
Calcium, Dissolved	19.5	10	28.7	92	10	28.0	85	2	75-125	20
Chromium, Dissolved	ND	0.2	0.219	110	0.2	0.215	108	2	75-125	20
Cobalt, Dissolved	ND	0.5	0.547	109	0.5	0.536	107	2	75-125	20
Copper, Dissolved	ND	0.25	0.275	110	0.25	0.270	108	2	75-125	20
Iron, Dissolved	0.0102J	1	1.06	106	1	1.03	103	3	75-125	20
Lead, Dissolved	ND	0.53	0.562	106	0.53	0.551	104	2	75-125	20
Magnesium, Dissolved	10.3	10	20.6	103	10	20.2	99	2	75-125	20
Manganese, Dissolved	0.0019J	0.5	0.517	103	0.5	0.505	101	2	75-125	20
Nickel, Dissolved	ND	0.5	0.533	107	0.5	0.522	104	2	75-125	20
Potassium, Dissolved	1.50J	10	12.3	123	10	12.0	120	2	75-125	20
Selenium, Dissolved	ND	0.12	0.123	102	0.12	0.119	99	3	75-125	20
Silver, Dissolved	ND	0.05	0.0546	109	0.05	0.0534	107	2	75-125	20
Sodium, Dissolved	14.6	10	24.5	99	10	24.1	95	2	75-125	20
Thallium, Dissolved	ND	0.12	0.129	108	0.12	0.125	104	3	75-125	20
Vanadium, Dissolved	ND	0.5	0.556	111	0.5	0.545	109	2	75-125	20
Zinc, Dissolved	ND	0.5	0.545	109	0.5	0.532	106	2	75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: DUP_121224	**Matrix**	: WATER
Lab Sample ID	: L2473162-07		
Matrix Spike	: WG2010403-7	**MS Analysis Date**	: 12/19/24 13:00
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	2.14	107					75-125	20
Antimony, Dissolved	ND	0.5	0.461	92					75-125	20
Arsenic, Dissolved	ND	0.12	0.121	101					75-125	20
Barium, Dissolved	0.0136	2	2.02	100					75-125	20
Beryllium, Dissolved	ND	0.05	0.0526	105					75-125	20
Cadmium, Dissolved	ND	0.053	0.0574	108					75-125	20
Calcium, Dissolved	18.7	10	28.5	98					75-125	20
Chromium, Dissolved	ND	0.2	0.216	108					75-125	20
Cobalt, Dissolved	ND	0.5	0.541	108					75-125	20
Copper, Dissolved	ND	0.25	0.274	110					75-125	20
Iron, Dissolved	0.0140J	1	1.05	105					75-125	20
Lead, Dissolved	ND	0.53	0.564	106					75-125	20
Magnesium, Dissolved	9.77	10	20.4	106					75-125	20
Manganese, Dissolved	0.0018J	0.5	0.513	103					75-125	20
Nickel, Dissolved	ND	0.5	0.527	105					75-125	20
Potassium, Dissolved	1.44J	10	12.3	123					75-125	20
Selenium, Dissolved	ND	0.12	0.123	102					75-125	20
Silver, Dissolved	ND	0.05	0.0544	109					75-125	20
Sodium, Dissolved	14.0	10	24.2	102					75-125	20
Thallium, Dissolved	ND	0.12	0.129	108					75-125	20
Vanadium, Dissolved	ND	0.5	0.551	110					75-125	20
Zinc, Dissolved	0.0030J	0.5	0.537	107					75-125	20

Form 5b
Post Digest Spike Recovery

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix**	: WATER
Lab Sample ID	: L2473162-06		
Post Spike	: WG2010362-9	**PS Analysis Date**	: 12/18/24 23:20

		Post Spike Sample			
	Sample Conc.	Spike Added	Spike Conc.	%R	Recovery
Parameter	(mg/l)	(mg/l)	(mg/l)		Limits
Potassium, Total	1.50J	10	13.2	132	75-125

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 12/18/24 12:36
Dup Sample ID	: WG2010362-4	**DUP Analysis Date**	: 12/18/24 12:45

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Calcium, Total	44.0	44.0	0	20
Magnesium, Total	5.66	5.65	0	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2473162
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: DUP_121224	Matrix	: WATER
Lab Sample ID	: L2473162-07	Analysis Date	: 12/19/24 12:55
Dup Sample ID	: WG2010403-8	DUP Analysis Date	: 12/19/24 13:04

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	0.0136	0.0135	1	20
Beryllium, Dissolved	ND	ND	NC	20
Cadmium, Dissolved	ND	ND	NC	20
Calcium, Dissolved	18.7	18.4	2	20
Chromium, Dissolved	ND	ND	NC	20
Cobalt, Dissolved	ND	ND	NC	20
Copper, Dissolved	ND	ND	NC	20
Iron, Dissolved	0.0140J	0.0150J	NC	20
Lead, Dissolved	ND	ND	NC	20
Magnesium, Dissolved	9.77	9.55	2	20
Manganese, Dissolved	0.0018J	0.0018J	NC	20
Nickel, Dissolved	ND	ND	NC	20
Potassium, Dissolved	1.44J	1.43J	NC	20
Selenium, Dissolved	ND	ND	NC	20
Silver, Dissolved	ND	ND	NC	20
Sodium, Dissolved	14.0	13.8	1	20
Thallium, Dissolved	ND	ND	NC	20
Vanadium, Dissolved	ND	ND	NC	20
Zinc, Dissolved	0.0030J	ND	NC	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2010362-2	**LCS Analysis Date**	: 12/18/24 10:57
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	2.12	106.					85-115	20
Antimony, Total	0.500	0.431	86.					85-115	20
Arsenic, Total	0.120	0.123	102.					85-115	20
Barium, Total	2.00	2.03	102.					85-115	20
Beryllium, Total	0.0500	0.0509	102.					85-115	20
Cadmium, Total	0.0530	0.0545	103.					85-115	20
Calcium, Total	10.0	9.99	100.					85-115	20
Chromium, Total	0.200	0.206	103.					85-115	20
Cobalt, Total	0.500	0.523	105.					85-115	20
Copper, Total	0.250	0.262	105.					85-115	20
Iron, Total	1.00	1.01	101.					85-115	20
Lead, Total	0.530	0.549	104.					85-115	20
Magnesium, Total	10.0	10.4	104.					85-115	20
Manganese, Total	0.500	0.496	99.					85-115	20
Nickel, Total	0.500	0.510	102.					85-115	20
Potassium, Total	10.0	10.9	109.					85-115	20
Selenium, Total	0.120	0.122	102.					85-115	20
Silver, Total	0.0500	0.0508	102.					85-115	20
Sodium, Total	10.0	11.0	110.					85-115	20
Thallium, Total	0.120	0.126	105.					85-115	20
Vanadium, Total	0.500	0.528	106.					85-115	20
Zinc, Total	0.500	0.507	101.					85-115	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2010403-2	**LCS Analysis Date**	: 12/19/24 11:30
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	2.09	104.					85-115	20
Antimony, Dissolved	0.500	0.436	87.					85-115	20
Arsenic, Dissolved	0.120	0.118	98.					85-115	20
Barium, Dissolved	2.00	2.00	100.					85-115	20
Beryllium, Dissolved	0.0500	0.0511	102.					85-115	20
Cadmium, Dissolved	0.0530	0.0562	106.					85-115	20
Calcium, Dissolved	10.0	10.0	100.					85-115	20
Chromium, Dissolved	0.200	0.211	106.					85-115	20
Cobalt, Dissolved	0.500	0.540	108.					85-115	20
Copper, Dissolved	0.250	0.267	107.					85-115	20
Iron, Dissolved	1.00	1.03	103.					85-115	20
Lead, Dissolved	0.530	0.546	103.					85-115	20
Magnesium, Dissolved	10.0	10.8	108.					85-115	20
Manganese, Dissolved	0.500	0.503	101.					85-115	20
Nickel, Dissolved	0.500	0.524	105.					85-115	20
Potassium, Dissolved	10.0	10.6	106.					85-115	20
Selenium, Dissolved	0.120	0.117	98.					85-115	20
Silver, Dissolved	0.0500	0.0530	106.					85-115	20
Sodium, Dissolved	10.0	10.4	104.					85-115	20
Thallium, Dissolved	0.120	0.125	104.					85-115	20
Vanadium, Dissolved	0.500	0.538	108.					85-115	20
Zinc, Dissolved	0.500	0.525	105.					85-115	20

Form 8
Serial Dilutions

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix**	: WATER
Lab Sample ID	: L2473162-06	**Analysis Date**	: 12/18/24 23:06
Serial Dilution ID	: WG2010362-10	**Analysis Date**	: 12/18/24 23:24

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Calcium, Total	17.9	17.4	3	20
Magnesium, Total	9.24	8.71	6	20

Form 8
Serial Dilutions

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix**	: WATER
Lab Sample ID	: L2473162-06	**Analysis Date**	: 12/19/24 11:48
Serial Dilution ID	: WG2010403-6	**Analysis Date**	: 12/19/24 12:05

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Calcium, Dissolved	19.5	18.1	7	20
Magnesium, Dissolved	10.3	9.18	11	20

Form 8
Serial Dilutions

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: DUP_121224	**Matrix**	: WATER
Lab Sample ID	: L2473162-07	**Analysis Date**	: 12/19/24 12:55
Serial Dilution ID	: WG2010403-10	**Analysis Date**	: 12/19/24 13:13

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Calcium, Dissolved	18.7	17.9	4	20
Magnesium, Dissolved	9.77	9.03	8	20

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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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2473162-01	12/17/24 21:20	-	50
L2473162-02	12/17/24 21:20	-	50
L2473162-03	12/17/24 21:20	-	50
L2473162-04	12/17/24 21:20	-	50
L2473162-05	12/17/24 21:20	-	50
L2473162-06	12/17/24 21:20	-	50
L2473162-07	12/17/24 21:20	-	50
L2473162-08	12/17/24 21:20	-	50
L2473162-09	12/17/24 21:20	-	50
L2473162-10	12/17/24 21:20	-	50
WG2010362-1	12/17/24 21:20	-	50
WG2010362-2	12/17/24 21:20	-	50
WG2010362-3	12/17/24 21:20	-	50
WG2010362-4	12/17/24 21:20	-	50
WG2010362-7	12/17/24 21:20	-	50
WG2010362-8	12/17/24 21:20	-	50
WG2010362-9	12/17/24 21:20	-	50
WG2010362-10	12/17/24 21:20	-	50

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2473162-01	12/17/24 21:20	-	50
L2473162-02	12/17/24 21:20	-	50
L2473162-03	12/17/24 21:20	-	50
L2473162-04	12/17/24 21:20	-	50
L2473162-05	12/17/24 21:20	-	50
L2473162-06	12/17/24 21:20	-	50
L2473162-07	12/17/24 21:20	-	50
L2473162-08	12/17/24 21:20	-	50
L2473162-09	12/17/24 21:20	-	50
L2473162-10	12/17/24 21:20	-	50
WG2010403-1	12/17/24 21:20	-	50
WG2010403-2	12/17/24 21:20	-	50
WG2010403-3	12/17/24 21:20	-	50
WG2010403-4	12/17/24 21:20	-	50
WG2010403-6	12/17/24 21:20	-	50
WG2010403-7	12/17/24 21:20	-	50
WG2010403-8	12/17/24 21:20	-	50
WG2010403-10	12/17/24 21:20	-	50

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Analysis Method**	: 19,200.7
Start Date	: 12/18/24 06:02	**End Date**	: 12/19/24 00:09

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
R1912834-1 ICV	1	06:02:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-2 ICB	1	06:06:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-3 ICV	1	06:11:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-4 ICB	1	06:15:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-5 ICSA	1	06:24:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-6 CCV	1	07:51:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-7 CCB	1	07:56:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-8 CCV	1	08:58:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-9 CCB	1	09:03:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-10 CCV	1	09:57:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-11 CCB	1	10:01:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-12 CCV	1	10:41:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-13 CCB	1	10:45:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2010362-1 BLANK	1	10:52:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2010362-2 LCS	1	10:57:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-14 CCV	1	11:23:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-15 CCB	1	11:28:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-16 CCV	1	12:13:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-17 CCB	1	12:18:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2010362-3 MS	1	12:41:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2010362-4 DUP	1	12:45:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-18 CCV	1	12:59:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-19 CCB	1	13:03:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-20 CCV	1	13:57:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-21 CCB	1	14:01:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-22 CCV	1	14:50:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-23 CCB	1	14:54:34	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Analysis Method**	: 19,200.7
Start Date	: 12/18/24 06:02	**End Date**	: 12/19/24 00:09

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
R1912834-24 CCV	1	15:43:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-25 CCB	1	15:47:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-26 CCV	1	16:37:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-27 CCB	1	16:42:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-28 CCV	1	17:53:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-29 CCB	1	17:57:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-30 CCV	1	18:56:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-31 CCB	1	19:00:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-32 CCV	1	19:54:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-33 CCB	1	19:58:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-34 CCV	1	20:29:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-35 CCB	1	20:33:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-36 CCV	1	21:25:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-37 CCB	1	21:29:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-38 CCV	1	22:19:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-39 CCB	1	22:23:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-40 CCV	1	22:33:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-41 CCB	1	22:37:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2473162-01	1	22:53:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2473162-02	1	22:57:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2473162-03	1	23:02:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2473162-06	1	23:06:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2010362-7 MS	1	23:11:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2010362-8 MSD	1	23:15:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2010362-9 PS	1	23:20:08																X						
WG2010362-10 SERDIL	5	23:24:37							X						X									
R1912834-42 CCV	1	23:29:06	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Analysis Method**	: 19,200.7
Start Date	: 12/18/24 06:02	**End Date**	: 12/19/24 00:09

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
R1912834-43 CCB	1	23:33:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2473162-04	1	23:38:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2473162-05	1	23:42:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2473162-07	1	23:47:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2473162-08	1	23:51:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2473162-09	1	23:55:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2473162-10	1	00:00:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-44 CCV	1	00:04:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1912834-45 CCB	1	00:09:25	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Analysis Method**	: 19,200.7
Start Date	: 12/19/24 05:58	**End Date**	: 12/19/24 13:53

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
R1913301-1 ICV	1	05:58:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913301-2 ICB	1	06:02:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913301-3 ICV	1	06:10:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913301-4 ICB	1	06:15:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913301-5 ICSA	1	06:24:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913301-6 CCV	1	07:51:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913301-7 CCB	1	07:56:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913301-8 CCV	1	08:13:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913301-9 CCB	1	08:17:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913301-10 CCV	1	09:11:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913301-11 CCB	1	09:16:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913301-12 CCV	1	10:04:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913301-13 CCB	1	10:16:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913301-14 CCV	1	11:08:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913301-15 CCB	1	11:13:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2010403-1 BLANK	1	11:25:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2010403-2 LCS	1	11:30:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2473162-01	1	11:39:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2473162-02	1	11:43:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2473162-06	1	11:48:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2010403-3 MS	1	11:52:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2010403-4 MSD	1	11:57:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2010403-6 SERDIL	5	12:05:53							X						X									
R1913301-16 CCV	1	12:10:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913301-17 CCB	1	12:14:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2473162-03	1	12:33:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2473162-04	1	12:38:14	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Analysis Method**	: 19,200.7
Start Date	: 12/19/24 05:58	**End Date**	: 12/19/24 13:53

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
L2473162-05	1	12:42:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2473162-08	1	12:47:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2473162-09	1	12:51:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2473162-07	1	12:55:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2010403-7 MS	1	13:00:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2010403-8 DUP	1	13:04:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2010403-10 SERDIL	5	13:13:45							X						X									
R1913301-18 CCV	1	13:18:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913301-19 CCB	1	13:22:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2473162-10	1	13:27:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913301-20 CCV	1	13:49:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913301-21 CCB	1	13:53:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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Created By: Jason Hebert
File: PM2960-2
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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.

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Created By: Jason Hebert
File: PM2962-1
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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.

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: Blank DMC Trace8
Analysis started at: 12/18/2024 5:53:18 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	0.3 %	-0.1 %	-0.4 %	0.2 %	0.4 %	-0.2 %	-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	0.0000 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	-1.7 %	0.9 %	-2.6 %	0.0 %	-1.0 %	4.2 %	4.2 %

	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	0.0000 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 %	-0.2 %	-2.0 %	0.2 %	-0.9 %	0.4 %	0.9 %

	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	0.0000 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	4.9 %	0.3 %	-4.8 %	-1.6 %	0.0 %	-0.1 %	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	0.0000 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	-1.5 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: ICAL
Analysis started at: 12/18/2024 5:57:36 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	1.0081 ppm	25.0769 ppm	0.9943 ppm	1.0103 ppm	1.0077 ppm	1.0051 ppm	10.0461 ppm
Concentration per Run 2	0.9959 ppm	24.7715 ppm	1.0057 ppm	0.9984 ppm	0.9975 ppm	0.9980 ppm	9.9696 ppm
Concentration per Run 3	0.9959 ppm	25.1517 ppm	1.0000 ppm	0.9913 ppm	0.9949 ppm	0.9968 ppm	9.9843 ppm
Concentration RSD	0.7 %	0.8 %	0.6 %	1.0 %	0.7 %	0.4 %	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	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	1.0072 ppm	1.0084 ppm	1.0109 ppm	1.0026 ppm	25.1177 ppm	35.2508 ppm	1.0093 ppm
Concentration per Run 2	0.9981 ppm	0.9958 ppm	0.9959 ppm	0.9990 ppm	24.9739 ppm	34.5311 ppm	0.9894 ppm
Concentration per Run 3	0.9947 ppm	0.9958 ppm	0.9932 ppm	0.9984 ppm	24.9084 ppm	35.2180 ppm	1.0013 ppm
Concentration RSD	0.6 %	0.7 %	1.0 %	0.2 %	0.4 %	1.2 %	1.0 %

	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	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	10.0903 ppm	1.0055 ppm	0.9957 ppm	25.0437 ppm	1.0094 ppm	0.9977 ppm	1.0056 ppm
Concentration per Run 2	9.9769 ppm	0.9953 ppm	0.9999 ppm	24.5940 ppm	0.9972 ppm	1.0051 ppm	0.9985 ppm
Concentration per Run 3	9.9328 ppm	0.9992 ppm	1.0045 ppm	25.3623 ppm	0.9934 ppm	0.9972 ppm	0.9959 ppm
Concentration RSD	0.8 %	0.5 %	0.4 %	1.5 %	0.8 %	0.4 %	0.5 %

	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	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	0.9931 ppm	10.0725 ppm	1.0109 ppm	1.0065 ppm	1.0079 ppm	0.9929 ppm	1.0054 ppm
Concentration per Run 2	1.0079 ppm	9.9527 ppm	1.0021 ppm	0.9959 ppm	0.9968 ppm	1.0066 ppm	0.9996 ppm
Concentration per Run 3	0.9989 ppm	9.9748 ppm	0.9870 ppm	0.9975 ppm	0.9953 ppm	1.0005 ppm	0.9951 ppm
Concentration RSD	0.7 %	0.6 %	1.2 %	0.6 %	0.7 %	0.7 %	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	1.0000 ppm	99.3476 %	100.0709 %	88.2729 %	91.5742 %	97.8308 %	93.6586 %
Concentration per Run 1	1.0126 ppm	98.5560 %	99.7258 %	88.5853 %	91.2016 %	98.1747 %	94.1736 %
Concentration per Run 2	0.9990 ppm	99.6583 %	100.2357 %	87.7877 %	92.1726 %	97.2147 %	93.0900 %
Concentration per Run 3	0.9885 ppm	99.8285 %	100.2513 %	88.4457 %	91.3485 %	98.1030 %	93.7121 %
Concentration RSD	1.2 %	0.7 %	0.3 %	0.5 %	0.6 %	0.5 %	0.6 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: ICV
Analysis started at: 12/18/2024 6:02:00 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	0.4808 ppm	0.4672 ppm	0.4801 ppm	0.4874 ppm	0.4754 ppm	0.4944 ppm	0.4828 ppm
Concentration per Run 1	0.4838 ppm	0.4365 ppm	0.4807 ppm	0.4933 ppm	0.4370 ppm	0.4560 ppm	0.4444 ppm
Concentration per Run 2	0.4816 ppm	0.4955 ppm	0.4776 ppm	0.4869 ppm	0.5030 ppm	0.5214 ppm	0.5110 ppm
Concentration per Run 3	0.4772 ppm	0.4695 ppm	0.4821 ppm	0.4819 ppm	0.4864 ppm	0.5057 ppm	0.4930 ppm
Recovery Percentage 1	96.167 %	93.436 %	96.024 %	97.472 %	95.087 %	98.875 %	96.559 %
Concentration RSD	0.7 %	6.3 %	0.5 %	1.2 %	7.2 %	6.9 %	7.1 %

	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	0.4985 ppm	0.5107 ppm	0.4908 ppm	0.4842 ppm	0.4995 ppm	5.0577 ppm	0.4866 ppm
Concentration per Run 1	0.5055 ppm	0.5161 ppm	0.4958 ppm	0.4847 ppm	0.4623 ppm	4.6543 ppm	0.4514 ppm
Concentration per Run 2	0.4972 ppm	0.5101 ppm	0.4919 ppm	0.4861 ppm	0.5279 ppm	5.3137 ppm	0.5122 ppm
Concentration per Run 3	0.4927 ppm	0.5058 ppm	0.4847 ppm	0.4819 ppm	0.5082 ppm	5.2052 ppm	0.4963 ppm
Recovery Percentage 1	99.692 %	102.133 %	98.164 %	96.848 %	99.893 %	101.154 %	97.320 %
Concentration RSD	1.3 %	1.0 %	1.1 %	0.4 %	6.7 %	7.0 %	6.5 %

	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	0.4985 ppm	0.4782 ppm	0.5060 ppm	9.7258 ppm	0.5069 ppm	0.4810 ppm	0.5038 ppm
Concentration per Run 1	0.5040 ppm	0.4417 ppm	0.5086 ppm	8.9466 ppm	0.5131 ppm	0.4832 ppm	0.5079 ppm
Concentration per Run 2	0.4974 ppm	0.5047 ppm	0.5058 ppm	10.3153 ppm	0.5053 ppm	0.4794 ppm	0.5046 ppm
Concentration per Run 3	0.4942 ppm	0.4881 ppm	0.5037 ppm	9.9156 ppm	0.5022 ppm	0.4805 ppm	0.4989 ppm
Recovery Percentage 1	99.707 %	95.631 %	101.209 %	97.258 %	101.377 %	96.205 %	100.760 %
Concentration RSD	1.0 %	6.8 %	0.5 %	7.2 %	1.1 %	0.4 %	0.9 %

	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	0.4807 ppm	5.4687 ppm	0.5126 ppm	0.5072 ppm	0.4934 ppm	0.4872 ppm	0.4907 ppm
Concentration per Run 1	0.4832 ppm	5.5047 ppm	0.5215 ppm	0.4674 ppm	0.5000 ppm	0.4889 ppm	0.4945 ppm
Concentration per Run 2	0.4758 ppm	5.4701 ppm	0.5125 ppm	0.5359 ppm	0.4928 ppm	0.4847 ppm	0.4905 ppm
Concentration per Run 3	0.4833 ppm	5.4313 ppm	0.5037 ppm	0.5184 ppm	0.4873 ppm	0.4881 ppm	0.4869 ppm
Recovery Percentage 1	96.149 %	104.166 %	102.511 %	101.443 %	98.679 %	97.449 %	98.131 %
Concentration RSD	0.9 %	0.7 %	1.7 %	7.0 %	1.3 %	0.5 %	0.8 %

	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	0.5005 ppm	99.8193 %	102.0093 %	94.7039 %	95.3989 %	100.8161 %	96.9048 %
Concentration per Run 1	0.5089 ppm	98.6122 %	109.4170 %	94.2768 %	94.6370 %	107.0738 %	96.6019 %
Concentration per Run 2	0.4988 ppm	99.9736 %	97.0786 %	94.8289 %	95.9279 %	96.1202 %	97.1420 %
Concentration per Run 3	0.4939 ppm	100.8720 %	99.5322 %	95.0059 %	95.6320 %	99.2543 %	96.9705 %
Recovery Percentage 1	100.103 %						
Concentration RSD	1.5 %	1.1 %	6.4 %	0.4 %	0.7 %	5.6 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: ICB
Analysis started at: 12/18/2024 6:06:24 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	0.0000 ppm	0.0007 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0011 ppm
Concentration per Run 1	-0.0003 ppm	-0.0002 ppm	0.0005 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 2	0.0001 ppm	-0.0028 ppm	0.0007 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	-0.0021 ppm
Concentration per Run 3	0.0000 ppm	0.0030 ppm	0.0008 ppm	-0.0007 ppm	0.0000 ppm	0.0000 ppm	-0.0012 ppm
Recovery Percentage 1	-1.704 %	0.015 %	13.631 %	0.645 %	0.090 %	0.112 %	-1.100 %
Concentration RSD	255.3 %	19,298.9 %	21.6 %	384.1 %	491.3 %	495.0 %	97.5 %

	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	0.0001 ppm	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0013 ppm	0.0088 ppm	-0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0000 ppm	-0.0002 ppm	0.0015 ppm	0.0112 ppm	-0.0003 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	-0.0003 ppm	0.0017 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0001 ppm	-0.0002 ppm	0.0008 ppm	0.0151 ppm	-0.0003 ppm
Recovery Percentage 1	1.478 %	1.397 %	-1.732 %	-2.332 %	2.633 %	0.351 %	-0.912 %
Concentration RSD	99.5 %	143.3 %	131.2 %	33.7 %	35.5 %	89.7 %	430.4 %

	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	0.0009 ppm	0.0001 ppm	0.0046 ppm	-0.0005 ppm	0.0005 ppm	0.0006 ppm	-0.0002 ppm
Concentration per Run 1	0.0006 ppm	0.0001 ppm	0.0043 ppm	-0.0005 ppm	0.0007 ppm	0.0007 ppm	-0.0006 ppm
Concentration per Run 2	0.0009 ppm	0.0001 ppm	0.0049 ppm	-0.0008 ppm	0.0001 ppm	0.0013 ppm	-0.0001 ppm
Concentration per Run 3	0.0012 ppm	0.0001 ppm	0.0045 ppm	-0.0002 ppm	0.0007 ppm	-0.0002 ppm	0.0000 ppm
Recovery Percentage 1	0.896 %	0.976 %	9.191 %	-0.024 %	2.022 %	5.808 %	-0.457 %
Concentration RSD	35.1 %	33.9 %	7.0 %	56.3 %	69.7 %	132.4 %	142.7 %

	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	0.0011 ppm	-0.0020 ppm	0.0010 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	-0.0013 ppm	0.0010 ppm	0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 2	0.0024 ppm	-0.0019 ppm	0.0010 ppm	0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 3	0.0010 ppm	-0.0028 ppm	0.0010 ppm	0.0000 ppm	0.0002 ppm	0.0002 ppm	-0.0001 ppm
Recovery Percentage 1	11.392 %	-0.399 %	2.020 %	0.912 %	1.344 %	1.273 %	0.049 %
Concentration RSD	103.3 %	36.7 %	3.4 %	53.5 %	57.1 %	95.8 %	1,364.7 %

	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	0.0001 ppm	99.8877 %	98.9601 %	95.3200 %	99.1947 %	99.4364 %	98.2110 %
Concentration per Run 1	0.0002 ppm	98.9714 %	98.5405 %	95.1030 %	99.2408 %	99.1027 %	98.7992 %
Concentration per Run 2	0.0001 ppm	100.5677 %	98.0713 %	95.0600 %	99.7912 %	98.5896 %	97.7021 %
Concentration per Run 3	0.0000 ppm	100.1241 %	100.2684 %	95.7970 %	98.5521 %	100.6171 %	98.1316 %
Recovery Percentage 1	2.102 %						
Concentration RSD	104.3 %	0.8 %	1.2 %	0.4 %	0.6 %	1.1 %	0.6 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: ICV
Analysis started at: 12/18/2024 6:11:07 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	0.4880 ppm	0.4750 ppm	0.4880 ppm	0.4947 ppm	0.4909 ppm	0.5069 ppm	0.4960 ppm
Concentration per Run 1	0.4930 ppm	0.4730 ppm	0.4881 ppm	0.4958 ppm	0.4875 ppm	0.5055 ppm	0.4978 ppm
Concentration per Run 2	0.4870 ppm	0.4769 ppm	0.4872 ppm	0.4965 ppm	0.4963 ppm	0.5096 ppm	0.4950 ppm
Concentration per Run 3	0.4839 ppm	0.4752 ppm	0.4887 ppm	0.4918 ppm	0.4888 ppm	0.5057 ppm	0.4952 ppm
Recovery Percentage 1	97.590 %	95.006 %	97.602 %	98.938 %	98.175 %	101.387 %	99.206 %
Concentration RSD	0.9 %	0.4 %	0.2 %	0.5 %	1.0 %	0.5 %	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	0.5065 ppm	0.5199 ppm	0.4962 ppm	0.4935 ppm	0.5027 ppm	5.1299 ppm	0.5007 ppm
Concentration per Run 1	0.5103 ppm	0.5221 ppm	0.5010 ppm	0.4970 ppm	0.4998 ppm	5.0877 ppm	0.4977 ppm
Concentration per Run 2	0.5092 ppm	0.5247 ppm	0.4960 ppm	0.4944 ppm	0.5059 ppm	5.1736 ppm	0.5037 ppm
Concentration per Run 3	0.4999 ppm	0.5128 ppm	0.4915 ppm	0.4890 ppm	0.5024 ppm	5.1283 ppm	0.5008 ppm
Recovery Percentage 1	101.293 %	103.975 %	99.234 %	98.690 %	100.540 %	102.597 %	100.149 %
Concentration RSD	1.1 %	1.2 %	1.0 %	0.8 %	0.6 %	0.8 %	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	0.5040 ppm	0.4891 ppm	0.5104 ppm	10.1884 ppm	0.5141 ppm	0.4901 ppm	0.5039 ppm
Concentration per Run 1	0.5075 ppm	0.4897 ppm	0.5099 ppm	10.1319 ppm	0.5217 ppm	0.4899 ppm	0.5085 ppm
Concentration per Run 2	0.5059 ppm	0.4901 ppm	0.5131 ppm	10.2261 ppm	0.5141 ppm	0.4918 ppm	0.5062 ppm
Concentration per Run 3	0.4985 ppm	0.4874 ppm	0.5082 ppm	10.2072 ppm	0.5064 ppm	0.4886 ppm	0.4971 ppm
Recovery Percentage 1	100.790 %	97.817 %	102.082 %	101.884 %	102.813 %	98.013 %	100.785 %
Concentration RSD	1.0 %	0.3 %	0.5 %	0.5 %	1.5 %	0.3 %	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	0.4890 ppm	5.5562 ppm	0.5336 ppm	0.5142 ppm	0.4982 ppm	0.4969 ppm	0.5006 ppm
Concentration per Run 1	0.4895 ppm	5.6003 ppm	0.5394 ppm	0.5113 ppm	0.5036 ppm	0.4975 ppm	0.5039 ppm
Concentration per Run 2	0.4914 ppm	5.5544 ppm	0.5381 ppm	0.5181 ppm	0.4979 ppm	0.4973 ppm	0.5025 ppm
Concentration per Run 3	0.4862 ppm	5.5139 ppm	0.5234 ppm	0.5130 ppm	0.4931 ppm	0.4960 ppm	0.4955 ppm
Recovery Percentage 1	97.810 %	105.832 %	106.725 %	102.831 %	99.640 %	99.387 %	100.126 %
Concentration RSD	0.5 %	0.8 %	1.7 %	0.7 %	1.1 %	0.2 %	0.9 %

	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	0.5081 ppm	100.3961 %	100.6342 %	94.9370 %	96.6138 %	99.1963 %	97.2499 %
Concentration per Run 1	0.5124 ppm	99.7560 %	100.3568 %	95.0165 %	96.4852 %	99.0158 %	97.1760 %
Concentration per Run 2	0.5103 ppm	100.3127 %	100.4927 %	94.6648 %	96.6461 %	98.7544 %	97.0636 %
Concentration per Run 3	0.5015 ppm	101.1196 %	101.0532 %	95.1298 %	96.7099 %	99.8186 %	97.5101 %
Recovery Percentage 1	101.611 %						
Concentration RSD	1.1 %	0.7 %	0.4 %	0.3 %	0.1 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: ICB
Analysis started at: 12/18/2024 6:15:35 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	-0.0002 ppm	0.0004 ppm	0.0018 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	-0.0003 ppm	-0.0008 ppm	0.0021 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 2	-0.0001 ppm	-0.0004 ppm	0.0005 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 3	-0.0003 ppm	0.0023 ppm	0.0026 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm
Recovery Percentage 1	-4.742 %	0.387 %	35.192 %	-0.149 %	-0.225 %	0.501 %	0.057 %
Concentration RSD	46.2 %	442.5 %	62.1 %	737.3 %	96.4 %	88.2 %	337.6 %

	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	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0009 ppm	0.0054 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0001 ppm	-0.0001 ppm	0.0009 ppm	0.0036 ppm	-0.0001 ppm
Concentration per Run 2	-0.0001 ppm	0.0002 ppm	-0.0001 ppm	-0.0006 ppm	0.0011 ppm	0.0015 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	-0.0002 ppm	-0.0003 ppm	0.0006 ppm	0.0109 ppm	0.0003 ppm
Recovery Percentage 1	-1.084 %	-0.204 %	-1.347 %	-3.429 %	1.732 %	0.214 %	1.569 %
Concentration RSD	109.1 %	1,809.6 %	30.0 %	64.0 %	32.0 %	92.0 %	157.9 %

	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	-0.0004 ppm	0.0000 ppm	0.0039 ppm	0.0004 ppm	0.0003 ppm	0.0002 ppm	0.0012 ppm
Concentration per Run 1	-0.0004 ppm	0.0000 ppm	0.0044 ppm	-0.0004 ppm	-0.0002 ppm	0.0004 ppm	0.0024 ppm
Concentration per Run 2	-0.0002 ppm	-0.0001 ppm	0.0036 ppm	0.0004 ppm	0.0005 ppm	0.0001 ppm	-0.0008 ppm
Concentration per Run 3	-0.0005 ppm	0.0001 ppm	0.0039 ppm	0.0011 ppm	0.0007 ppm	0.0002 ppm	0.0019 ppm
Recovery Percentage 1	-0.385 %	-0.076 %	7.888 %	0.020 %	1.363 %	2.338 %	2.362 %
Concentration RSD	45.3 %	1,122.0 %	10.1 %	186.4 %	143.4 %	45.2 %	143.1 %

	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	0.0012 ppm	-0.0017 ppm	0.0006 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	0.0023 ppm	-0.0014 ppm	0.0012 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 2	0.0021 ppm	-0.0028 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 3	-0.0008 ppm	-0.0007 ppm	0.0002 ppm	0.0001 ppm	0.0001 ppm	-0.0003 ppm	0.0001 ppm
Recovery Percentage 1	11.791 %	-0.333 %	1.230 %	0.806 %	1.289 %	0.214 %	0.066 %
Concentration RSD	144.5 %	63.9 %	84.6 %	18.0 %	65.8 %	681.6 %	1,041.1 %

	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	0.0000 ppm	99.8279 %	100.0248 %	95.1695 %	99.3661 %	100.3231 %	98.3349 %
Concentration per Run 1	-0.0001 ppm	98.9871 %	99.1537 %	94.6734 %	99.4586 %	99.5911 %	98.0736 %
Concentration per Run 2	0.0000 ppm	99.5067 %	100.5474 %	95.5890 %	99.0575 %	100.9507 %	98.6442 %
Concentration per Run 3	0.0001 ppm	100.9898 %	100.3734 %	95.2462 %	99.5821 %	100.4277 %	98.2870 %
Recovery Percentage 1	-0.239 %						
Concentration RSD	782.2 %	1.0 %	0.8 %	0.5 %	0.3 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: LLOQ
Analysis started at: 12/18/2024 6:20:00 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	0.0053 ppm	0.1038 ppm	0.0069 ppm	0.0309 ppm	0.0106 ppm	0.0054 ppm	0.1113 ppm
Concentration per Run 1	0.0055 ppm	0.1039 ppm	0.0061 ppm	0.0305 ppm	0.0105 ppm	0.0054 ppm	0.1116 ppm
Concentration per Run 2	0.0051 ppm	0.1026 ppm	0.0087 ppm	0.0308 ppm	0.0106 ppm	0.0054 ppm	0.1117 ppm
Concentration per Run 3	0.0053 ppm	0.1048 ppm	0.0058 ppm	0.0313 ppm	0.0105 ppm	0.0054 ppm	0.1107 ppm
Recovery Percentage 1	105.678 %	103.788 %	137.683 %	102.852 %	105.643 %	107.608 %	111.331 %
Concentration RSD	3.6 %	1.0 %	23.5 %	1.3 %	0.5 %	0.4 %	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	0.0044 ppm	0.0111 ppm	0.0107 ppm	0.0108 ppm	0.0772 ppm	2.7369 ppm	0.0113 ppm
Concentration per Run 1	0.0044 ppm	0.0111 ppm	0.0109 ppm	0.0111 ppm	0.0775 ppm	2.7370 ppm	0.0115 ppm
Concentration per Run 2	0.0044 ppm	0.0113 ppm	0.0108 ppm	0.0109 ppm	0.0764 ppm	2.7322 ppm	0.0112 ppm
Concentration per Run 3	0.0043 ppm	0.0109 ppm	0.0105 ppm	0.0105 ppm	0.0777 ppm	2.7414 ppm	0.0112 ppm
Recovery Percentage 1	109.464 %	110.877 %	107.116 %	108.490 %	154.411 %	109.475 %	112.933 %
Concentration RSD	1.9 %	2.0 %	1.7 %	2.8 %	0.9 %	0.2 %	1.5 %

	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	0.1116 ppm	0.0108 ppm	0.0581 ppm	2.1597 ppm	0.0229 ppm	0.0113 ppm	0.0557 ppm
Concentration per Run 1	0.1127 ppm	0.0109 ppm	0.0588 ppm	2.1451 ppm	0.0227 ppm	0.0114 ppm	0.0559 ppm
Concentration per Run 2	0.1122 ppm	0.0108 ppm	0.0582 ppm	2.1613 ppm	0.0230 ppm	0.0108 ppm	0.0546 ppm
Concentration per Run 3	0.1098 ppm	0.0107 ppm	0.0574 ppm	2.1726 ppm	0.0228 ppm	0.0117 ppm	0.0564 ppm
Recovery Percentage 1	111.566 %	108.355 %	116.268 %	107.983 %	91.410 %	113.036 %	111.307 %
Concentration RSD	1.4 %	0.9 %	1.2 %	0.6 %	0.6 %	4.2 %	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	0.0104 ppm	0.5405 ppm	0.0575 ppm	0.0106 ppm	0.0107 ppm	0.0216 ppm	0.0107 ppm
Concentration per Run 1	0.0112 ppm	0.5440 ppm	0.0584 ppm	0.0106 ppm	0.0110 ppm	0.0220 ppm	0.0109 ppm
Concentration per Run 2	0.0093 ppm	0.5443 ppm	0.0586 ppm	0.0106 ppm	0.0106 ppm	0.0212 ppm	0.0108 ppm
Concentration per Run 3	0.0107 ppm	0.5331 ppm	0.0555 ppm	0.0107 ppm	0.0105 ppm	0.0217 ppm	0.0105 ppm
Recovery Percentage 1	103.997 %	108.096 %	115.045 %	106.201 %	107.042 %	108.133 %	107.167 %
Concentration RSD	9.6 %	1.2 %	3.1 %	0.5 %	2.3 %	1.7 %	1.7 %

	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	0.0067 ppm	101.2492 %	100.4503 %	96.9063 %	99.2516 %	99.8180 %	98.4385 %
Concentration per Run 1	0.0067 ppm	100.4265 %	99.8725 %	96.0164 %	99.1834 %	99.4314 %	97.8733 %
Concentration per Run 2	0.0067 ppm	100.9450 %	100.3615 %	97.1136 %	98.8547 %	99.5516 %	98.6958 %
Concentration per Run 3	0.0065 ppm	102.3760 %	101.1170 %	97.5887 %	99.7166 %	100.4711 %	98.7464 %
Recovery Percentage 1	133.240 %						
Concentration RSD	1.8 %	1.0 %	0.6 %	0.8 %	0.4 %	0.6 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: ICSA
Analysis started at: 12/18/2024 6:24:26 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	0.0011 ppm	516.8372 [SIC 500]	0.0008 ppm	-0.0001 ppm	0.0014 ppm	0.0001 ppm	469.5054 ppm
Concentration per Run 1	0.0011 ppm	517.7236 ppm	-0.0012 ppm	0.0009 ppm	0.0014 ppm	0.0001 ppm	468.7330 ppm
Concentration per Run 2	0.0012 ppm	512.9126 ppm	0.0032 ppm	-0.0004 ppm	0.0014 ppm	0.0000 ppm	467.0233 ppm
Concentration per Run 3	0.0009 ppm	519.8753 ppm	0.0005 ppm	-0.0009 ppm	0.0014 ppm	0.0001 ppm	472.7599 ppm
Recovery Percentage 1	21.195 %	516,837.192 %	16.956 %	-0.371 %	13.919 %	1.174 %	469,505.437 %
Concentration RSD	13.7 %	0.7 %	262.1 %	804.7 %	2.4 %	24.9 %	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	0.0000 ppm	-0.0001 ppm	0.0000 ppm	180.1838 ppm	-0.0009 ppm	-0.0055 ppm
Concentration per Run 1	-0.0013 ppm	-0.0003 ppm	0.0000 ppm	0.0001 ppm	179.0721 ppm	0.0012 ppm	-0.0048 ppm
Concentration per Run 2	-0.0012 ppm	0.0003 ppm	-0.0003 ppm	0.0001 ppm	179.8694 ppm	-0.0018 ppm	-0.0062 ppm
Concentration per Run 3	-0.0013 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	181.6098 ppm	-0.0021 ppm	-0.0056 ppm
Recovery Percentage 1	-31.457 %	0.043 %	-0.969 %	0.004 %	360,367.566 %	-0.035 %	-55.250 %
Concentration RSD	2.6 %	7,676.0 %	179.3 %	29,096.6 %	0.7 %	212.1 %	12.9 %

	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	464.2137 ppm	0.0015 ppm	0.0003 ppm	0.0311 ppm	0.0000 ppm	-0.0033 ppm	-0.0049 ppm
Concentration per Run 1	465.9561 ppm	0.0015 ppm	-0.0004 ppm	0.0301 ppm	0.0000 ppm	-0.0043 ppm	-0.0024 ppm
Concentration per Run 2	464.3695 ppm	0.0014 ppm	0.0001 ppm	0.0320 ppm	-0.0005 ppm	-0.0022 ppm	-0.0044 ppm
Concentration per Run 3	462.3155 ppm	0.0017 ppm	0.0011 ppm	0.0311 ppm	0.0005 ppm	-0.0034 ppm	-0.0079 ppm
Recovery Percentage 1	464,213.732 %	15.339 %	0.578 %	1.553 %	0.108 %	-32.692 %	-9.820 %
Concentration RSD	0.4 %	8.7 %	255.1 %	3.1 %	1,886.2 %	32.2 %	57.1 %

	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	-0.0028 ppm	-0.0180 ppm	0.0022 ppm	0.0012 ppm	-0.0010 ppm	0.0016 ppm	-0.0004 ppm
Concentration per Run 1	-0.0032 ppm	-0.0178 ppm	0.0015 ppm	0.0013 ppm	-0.0010 ppm	0.0022 ppm	-0.0004 ppm
Concentration per Run 2	-0.0016 ppm	-0.0169 ppm	0.0020 ppm	0.0012 ppm	-0.0009 ppm	0.0021 ppm	-0.0006 ppm
Concentration per Run 3	-0.0037 ppm	-0.0192 ppm	0.0030 ppm	0.0012 ppm	-0.0010 ppm	0.0006 ppm	-0.0002 ppm
Recovery Percentage 1	-28.323 %	-3.592 %	4.331 %	12.469 %	-9.639 %	8.106 %	-4.040 %
Concentration RSD	38.2 %	6.5 %	36.6 %	2.6 %	8.9 %	56.8 %	50.0 %

	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	-0.0010 ppm	84.1170 %	91.1977 %	65.9064 %	78.2129 %	89.7704 %	79.0562 %
Concentration per Run 1	-0.0010 ppm	84.1787 %	91.7370 %	66.0935 %	78.7416 %	90.0776 %	79.4340 %
Concentration per Run 2	-0.0010 ppm	83.9856 %	91.1714 %	65.8219 %	77.9700 %	89.6929 %	79.1258 %
Concentration per Run 3	-0.0011 ppm	84.1866 %	90.6848 %	65.8037 %	77.9272 %	89.5409 %	78.6087 %
Recovery Percentage 1	-20.799 %						
Concentration RSD	2.5 %	0.1 %	0.6 %	0.2 %	0.6 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: SIC Multi
Analysis started at: 12/18/2024 6:29:53 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	0.0312 ppm	-0.0021 ppm	0.0022 ppm	0.0002 ppm	-0.0011 ppm	0.0101 ppm
Concentration per Run 1	-0.0009 ppm	0.0310 ppm	-0.0018 ppm	0.0029 ppm	0.0002 ppm	-0.0013 ppm	0.0126 ppm
Concentration per Run 2	-0.0011 ppm	0.0341 ppm	-0.0024 ppm	0.0019 ppm	0.0002 ppm	-0.0008 ppm	0.0084 ppm
Concentration per Run 3	-0.0010 ppm	0.0284 ppm	-0.0019 ppm	0.0019 ppm	0.0003 ppm	-0.0011 ppm	0.0094 ppm
Recovery Percentage 1	-19.682 %	31.173 %	-41.302 %	7.388 %	2.353 %	-21.544 %	10.124 %
Concentration RSD	7.4 %	9.2 %	16.2 %	26.2 %	13.9 %	21.5 %	21.7 %

	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	-0.0058 ppm	20.1286 ppm	-0.0019 ppm	0.0233 ppm	0.0123 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	-0.0061 ppm	20.1378 ppm	-0.0018 ppm	0.0246 ppm	0.0136 ppm	0.0005 ppm
Concentration per Run 2	0.0000 ppm	-0.0053 ppm	20.0694 ppm	-0.0019 ppm	0.0231 ppm	0.0076 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	-0.0059 ppm	20.1785 ppm	-0.0019 ppm	0.0222 ppm	0.0156 ppm	0.0006 ppm
Recovery Percentage 1	-0.633 %	-57.658 %	201,285.824 %	-18.638 %	46.577 %	0.492 %	5.368 %
Concentration RSD	12.1 %	7.7 %	0.3 %	1.6 %	5.2 %	34.0 %	14.1 %

	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	0.0337 ppm	20.3484 [SIC 100]	0.0017 ppm	0.0074 ppm	0.0006 ppm	-0.0049 ppm	-0.0156 ppm
Concentration per Run 1	0.0346 ppm	20.3427 ppm	0.0018 ppm	0.0071 ppm	0.0009 ppm	-0.0048 ppm	-0.0156 ppm
Concentration per Run 2	0.0333 ppm	20.4096 ppm	0.0015 ppm	0.0073 ppm	0.0009 ppm	-0.0067 ppm	-0.0141 ppm
Concentration per Run 3	0.0333 ppm	20.2930 ppm	0.0018 ppm	0.0079 ppm	0.0002 ppm	-0.0033 ppm	-0.0171 ppm
Recovery Percentage 1	33.731 %	203,484.306 %	3.418 %	0.371 %	2.574 %	-49.335 %	-31.211 %
Concentration RSD	2.2 %	0.3 %	8.9 %	5.6 %	64.6 %	33.9 %	9.5 %

	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	-0.0060 ppm	-0.0498 ppm	-0.0077 ppm	0.0001 ppm	19.8502 ppm	-0.0037 ppm	10.3442 [SIC 10]
Concentration per Run 1	-0.0062 ppm	-0.0674 ppm	-0.0076 ppm	0.0001 ppm	19.8713 ppm	-0.0079 ppm	10.3483 ppm
Concentration per Run 2	-0.0070 ppm	-0.0486 ppm	-0.0081 ppm	0.0000 ppm	19.8090 ppm	-0.0017 ppm	10.3549 ppm
Concentration per Run 3	-0.0048 ppm	-0.0333 ppm	-0.0076 ppm	0.0001 ppm	19.8703 ppm	-0.0015 ppm	10.3293 ppm
Recovery Percentage 1	-60.156 %	-9.959 %	-15.477 %	0.588 %	198,502.035 %	-18.397 %	103,441.524 %
Concentration RSD	18.3 %	34.3 %	3.6 %	27.1 %	0.2 %	99.4 %	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	0.0002 ppm	101.9948 %	101.2729 %	64.5482 %	97.0065 %	99.4002 %	97.4362 %
Concentration per Run 1	0.0003 ppm	101.7502 %	100.8765 %	64.1342 %	96.8348 %	98.7459 %	97.2896 %
Concentration per Run 2	0.0001 ppm	101.9303 %	101.1445 %	64.0637 %	96.9519 %	99.4048 %	97.2071 %
Concentration per Run 3	0.0001 ppm	102.3038 %	101.7978 %	65.4468 %	97.2329 %	100.0499 %	97.8118 %
Recovery Percentage 1	3.729 %						
Concentration RSD	66.2 %	0.3 %	0.5 %	1.2 %	0.2 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: LDR Check
Analysis started at: 12/18/2024 6:34:53 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	0.0025 ppm	-0.0030 ppm	22.7721 ppm	19.8174 ppm	19.0612 ppm	5.1069 ppm	0.0301 ppm
Concentration per Run 1	0.0025 ppm	-0.0002 ppm	22.8864 ppm	19.8094 ppm	19.0820 ppm	5.1165 ppm	0.0305 ppm
Concentration per Run 2	0.0025 ppm	-0.0025 ppm	22.6331 ppm	19.7964 ppm	19.0875 ppm	5.0941 ppm	0.0312 ppm
Concentration per Run 3	0.0026 ppm	-0.0063 ppm	22.7967 ppm	19.8465 ppm	19.0140 ppm	5.1102 ppm	0.0285 ppm
Recovery Percentage 1			113.860 %	99.087 %	95.306 %		0.000 %
Concentration RSD	1.6 %	101.1 %	0.6 %	0.1 %	0.2 %	0.2 %	4.6 %

	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	5.1050 ppm	5.0617 ppm	0.0018 ppm	19.4661 ppm	0.0112 ppm	518.3920 ppm	19.1445 ppm
Concentration per Run 1	5.0997 ppm	5.0658 ppm	0.0019 ppm	19.4585 ppm	0.0110 ppm	514.6315 ppm	18.8774 ppm
Concentration per Run 2	5.0880 ppm	5.0454 ppm	0.0019 ppm	19.4838 ppm	0.0117 ppm	520.6658 ppm	19.3092 ppm
Concentration per Run 3	5.1272 ppm	5.0738 ppm	0.0015 ppm	19.4559 ppm	0.0109 ppm	519.8787 ppm	19.2469 ppm
Recovery Percentage 1	102.100 %	101.233 %		97.330 %	0.000 %	103.678 %	95.723 %
Concentration RSD	0.4 %	0.3 %	12.0 %	0.1 %	4.0 %	0.6 %	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	-0.0048 ppm	0.0012 ppm	4.9586 ppm	461.1100 ppm	9.8907 ppm	53.3364 ppm	5.2199 ppm
Concentration per Run 1	-0.0054 ppm	0.0012 ppm	4.8861 ppm	463.0236 ppm	9.9128 ppm	53.3307 ppm	5.1873 ppm
Concentration per Run 2	-0.0049 ppm	0.0012 ppm	4.9553 ppm	461.0233 ppm	9.8415 ppm	53.1986 ppm	5.2377 ppm
Concentration per Run 3	-0.0041 ppm	0.0011 ppm	5.0345 ppm	459.2830 ppm	9.9177 ppm	53.4800 ppm	5.2346 ppm
Recovery Percentage 1		0.000 %	99.173 %	92.222 %	98.907 %	106.673 %	104.397 %
Concentration RSD	14.1 %	4.8 %	1.5 %	0.4 %	0.4 %	0.3 %	0.5 %

	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	5.3352 [SIC 20]	21.4514 [SIC 100]	10.2969 [SIC 20]	5.0243 ppm	0.0098 ppm	4.8438 ppm	0.0048 ppm
Concentration per Run 1	5.3508 ppm	21.4451 ppm	10.3004 ppm	5.0153 ppm	0.0103 ppm	4.8553 ppm	0.0049 ppm
Concentration per Run 2	5.3043 ppm	21.4049 ppm	10.2900 ppm	5.0327 ppm	0.0096 ppm	4.8178 ppm	0.0051 ppm
Concentration per Run 3	5.3506 ppm	21.5043 ppm	10.3003 ppm	5.0249 ppm	0.0094 ppm	4.8583 ppm	0.0043 ppm
Recovery Percentage 1	106.705 %	107.257 %	102.969 %	100.485 %	0.000 %	96.876 %	0.000 %
Concentration RSD	0.5 %	0.2 %	0.1 %	0.2 %	5.0 %	0.5 %	9.1 %

	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	20.9008 [SIC 50]	87.5577 %	94.2232 %	71.3455 %	81.2085 %	92.0536 %	81.3679 %
Concentration per Run 1	20.9675 ppm	87.3190 %	93.9712 %	71.4864 %	80.8938 %	91.6706 %	81.2220 %
Concentration per Run 2	20.7844 ppm	87.8811 %	95.1046 %	71.4963 %	81.7464 %	92.7713 %	81.5901 %
Concentration per Run 3	20.9504 ppm	87.4730 %	93.5937 %	71.0536 %	80.9854 %	91.7191 %	81.2914 %
Recovery Percentage 1	104.504 %						
Concentration RSD	0.5 %	0.3 %	0.8 %	0.4 %	0.6 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: LLOQ 0.005 As & Zn pass
Analysis started at: 12/18/2024 7:10:30 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	0.0051 ppm	0.1248 ppm	0.0060 ppm	0.0052 ppm	0.0050 ppm	0.0049 ppm	0.0628 ppm
Concentration per Run 1	0.0051 ppm	0.1211 ppm	0.0069 ppm	0.0058 ppm	0.0050 ppm	0.0049 ppm	0.0614 ppm
Concentration per Run 2	0.0049 ppm	0.1233 ppm	0.0049 ppm	0.0049 ppm	0.0051 ppm	0.0049 ppm	0.0641 ppm
Concentration per Run 3	0.0052 ppm	0.1299 ppm	0.0061 ppm	0.0049 ppm	0.0051 ppm	0.0049 ppm	0.0631 ppm
Recovery Percentage 1	101.664 %	0.000 %	119.774 %	0.000 %	0.000 %	98.723 %	0.000 %
Concentration RSD	2.8 %	3.6 %	16.9 %	9.6 %	1.0 %	0.0 %	2.2 %

	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	0.0051 ppm	0.0053 ppm	0.0051 ppm	0.0050 ppm	0.1408 ppm	0.2040 ppm	0.0057 ppm
Concentration per Run 1	0.0052 ppm	0.0054 ppm	0.0056 ppm	0.0051 ppm	0.1422 ppm	0.2103 ppm	0.0054 ppm
Concentration per Run 2	0.0051 ppm	0.0052 ppm	0.0048 ppm	0.0050 ppm	0.1394 ppm	0.2007 ppm	0.0057 ppm
Concentration per Run 3	0.0050 ppm	0.0053 ppm	0.0050 ppm	0.0049 ppm	0.1409 ppm	0.2009 ppm	0.0059 ppm
Recovery Percentage 1	102.516 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	1.8 %	2.4 %	7.9 %	1.5 %	1.0 %	2.7 %	4.4 %

	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	0.0556 ppm	0.0052 ppm	0.0062 ppm	0.1531 ppm	0.0058 ppm	0.0050 ppm	0.0073 ppm
Concentration per Run 1	0.0563 ppm	0.0052 ppm	0.0060 ppm	0.1494 ppm	0.0061 ppm	0.0056 ppm	0.0089 ppm
Concentration per Run 2	0.0557 ppm	0.0051 ppm	0.0062 ppm	0.1561 ppm	0.0055 ppm	0.0043 ppm	0.0055 ppm
Concentration per Run 3	0.0547 ppm	0.0052 ppm	0.0064 ppm	0.1537 ppm	0.0058 ppm	0.0051 ppm	0.0074 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	1.5 %	1.9 %	3.5 %	2.2 %	5.1 %	13.6 %	23.7 %

	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	0.0059 ppm	0.0485 ppm	0.0066 ppm	0.0052 ppm	0.0050 ppm	0.0052 ppm	0.0050 ppm
Concentration per Run 1	0.0054 ppm	0.0472 ppm	0.0070 ppm	0.0052 ppm	0.0049 ppm	0.0052 ppm	0.0050 ppm
Concentration per Run 2	0.0050 ppm	0.0496 ppm	0.0064 ppm	0.0052 ppm	0.0050 ppm	0.0048 ppm	0.0050 ppm
Concentration per Run 3	0.0073 ppm	0.0486 ppm	0.0064 ppm	0.0052 ppm	0.0051 ppm	0.0057 ppm	0.0050 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	21.2 %	2.5 %	5.5 %	0.2 %	1.3 %	8.3 %	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	0.0058 ppm	102.9616 %	100.3750 %	101.9847 %	101.6388 %	100.4208 %	100.6345 %
Concentration per Run 1	0.0057 ppm	102.4676 %	99.8384 %	101.3774 %	101.7895 %	99.5808 %	100.6384 %
Concentration per Run 2	0.0058 ppm	103.1677 %	101.5534 %	102.0923 %	102.0566 %	101.5303 %	100.5765 %
Concentration per Run 3	0.0059 ppm	103.2495 %	99.7331 %	102.4843 %	101.0702 %	100.1512 %	100.6885 %
Recovery Percentage 1	115.943 %						
Concentration RSD	2.0 %	0.4 %	1.0 %	0.6 %	0.5 %	1.0 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: zLLOQ 0.01
Analysis started at: 12/18/2024 7:15:10 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	0.0100 ppm	0.2467 ppm	**0.0120 ppm**	0.0097 ppm	0.0100 ppm	0.0099 ppm	0.1177 ppm
Concentration per Run 1	0.0101 ppm	0.2436 ppm	0.0119 ppm	0.0106 ppm	0.0099 ppm	0.0100 ppm	0.1177 ppm
Concentration per Run 2	0.0100 ppm	0.2487 ppm	0.0112 ppm	0.0090 ppm	0.0101 ppm	0.0099 ppm	0.1175 ppm
Concentration per Run 3	0.0100 ppm	0.2478 ppm	0.0131 ppm	0.0094 ppm	0.0101 ppm	0.0099 ppm	0.1179 ppm
Recovery Percentage 1	0.000 %	0.000 %	120.497 %	96.510 %	100.293 %	0.000 %	0.000 %
Concentration RSD	0.3 %	1.1 %	**7.9 %**	9.0 %	0.9 %	0.6 %	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	0.0104 ppm	0.0112 ppm	0.0104 ppm	0.0102 ppm	0.2707 ppm	0.3822 ppm	0.0112 ppm
Concentration per Run 1	0.0103 ppm	0.0112 ppm	0.0106 ppm	0.0104 ppm	0.2700 ppm	0.3804 ppm	0.0111 ppm
Concentration per Run 2	0.0104 ppm	0.0115 ppm	0.0104 ppm	0.0102 ppm	0.2712 ppm	0.3829 ppm	0.0118 ppm
Concentration per Run 3	0.0104 ppm	0.0111 ppm	0.0100 ppm	0.0100 ppm	0.2707 ppm	0.3832 ppm	0.0107 ppm
Recovery Percentage 1	0.000 %	112.257 %	103.532 %	102.165 %	0.000 %	0.000 %	111.844 %
Concentration RSD	0.4 %	1.8 %	2.7 %	1.9 %	0.2 %	0.4 %	5.1 %

	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	0.1097 ppm	0.0102 ppm	0.0113 ppm	0.2766 ppm	0.0108 ppm	0.0103 ppm	0.0108 ppm
Concentration per Run 1	0.1102 ppm	0.0103 ppm	0.0110 ppm	0.2797 ppm	0.0112 ppm	0.0104 ppm	0.0094 ppm
Concentration per Run 2	0.1095 ppm	0.0100 ppm	0.0116 ppm	0.2751 ppm	0.0108 ppm	0.0104 ppm	0.0111 ppm
Concentration per Run 3	0.1093 ppm	0.0103 ppm	0.0113 ppm	0.2750 ppm	0.0104 ppm	0.0100 ppm	0.0120 ppm
Recovery Percentage 1	0.000 %	101.802 %	112.907 %	0.000 %	107.826 %	102.566 %	0.000 %
Concentration RSD	0.4 %	1.4 %	2.7 %	1.0 %	3.9 %	2.2 %	11.9 %

	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	0.0113 ppm	0.0955 ppm	**0.0124 ppm**	0.0104 ppm	0.0101 ppm	0.0107 ppm	0.0101 ppm
Concentration per Run 1	0.0113 ppm	0.0953 ppm	0.0116 ppm	0.0104 ppm	0.0103 ppm	0.0109 ppm	0.0103 ppm
Concentration per Run 2	0.0121 ppm	0.0964 ppm	0.0128 ppm	0.0103 ppm	0.0103 ppm	0.0098 ppm	0.0101 ppm
Concentration per Run 3	0.0104 ppm	0.0947 ppm	0.0127 ppm	0.0104 ppm	0.0099 ppm	0.0114 ppm	0.0100 ppm
Recovery Percentage 1	112.768 %	0.000 %	123.735 %	103.758 %	101.430 %	106.939 %	101.422 %
Concentration RSD	7.6 %	0.9 %	**5.6 %**	0.6 %	2.3 %	7.8 %	1.8 %

	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	0.0108 ppm	99.4049 %	100.4432 %	96.2249 %	99.8665 %	100.8075 %	99.1717 %
Concentration per Run 1	0.0108 ppm	98.2336 %	101.4839 %	95.4784 %	99.7182 %	101.7642 %	99.4125 %
Concentration per Run 2	0.0110 ppm	99.5547 %	100.4189 %	96.2860 %	99.6097 %	100.5737 %	99.3584 %
Concentration per Run 3	0.0107 ppm	100.4263 %	99.4269 %	96.9104 %	100.2716 %	100.0846 %	98.7442 %
Recovery Percentage 1	108.291 %						
Concentration RSD	1.4 %	1.1 %	1.0 %	0.7 %	0.4 %	0.9 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: LLOQ 0.05 Fe pass
Analysis started at: 12/18/2024 7:19:33 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	0.0511 ppm	0.0496 ppm	0.0505 ppm	0.0514 ppm	0.0508 ppm	0.0513 ppm	0.0583 ppm
Concentration per Run 1	0.0514 ppm	0.0525 ppm	0.0506 ppm	0.0518 ppm	0.0509 ppm	0.0513 ppm	0.0584 ppm
Concentration per Run 2	0.0513 ppm	0.0511 ppm	0.0513 ppm	0.0513 ppm	0.0511 ppm	0.0516 ppm	0.0593 ppm
Concentration per Run 3	0.0506 ppm	0.0451 ppm	0.0496 ppm	0.0511 ppm	0.0503 ppm	0.0511 ppm	0.0572 ppm
Recovery Percentage 1	0.000 %	99.160 %	0.000 %	0.000 %	0.000 %	0.000 %	116.580 %
Concentration RSD	0.9 %	7.9 %	1.7 %	0.7 %	0.8 %	0.4 %	1.8 %

	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	0.0523 ppm	0.0544 ppm	0.0516 ppm	0.0513 ppm	0.0592 ppm	0.5560 ppm	0.0546 ppm
Concentration per Run 1	0.0528 ppm	0.0550 ppm	0.0520 ppm	0.0518 ppm	0.0596 ppm	0.5603 ppm	0.0550 ppm
Concentration per Run 2	0.0523 ppm	0.0541 ppm	0.0515 ppm	0.0516 ppm	0.0602 ppm	0.5566 ppm	0.0546 ppm
Concentration per Run 3	0.0517 ppm	0.0541 ppm	0.0512 ppm	0.0506 ppm	0.0578 ppm	0.5512 ppm	0.0541 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	118.375 %	22.241 %	0.000 %
Concentration RSD	1.1 %	0.9 %	0.8 %	1.2 %	2.1 %	0.8 %	0.8 %

	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	0.0560 ppm	0.0501 ppm	0.0552 ppm	1.0795 ppm	0.0551 ppm	0.0517 ppm	0.0549 ppm
Concentration per Run 1	0.0563 ppm	0.0498 ppm	0.0555 ppm	1.0825 ppm	0.0557 ppm	0.0519 ppm	0.0570 ppm
Concentration per Run 2	0.0556 ppm	0.0504 ppm	0.0546 ppm	1.0812 ppm	0.0552 ppm	0.0514 ppm	0.0535 ppm
Concentration per Run 3	0.0560 ppm	0.0500 ppm	0.0556 ppm	1.0748 ppm	0.0543 ppm	0.0517 ppm	0.0541 ppm
Recovery Percentage 1	111.947 %	0.000 %	0.000 %	107.950 %	0.000 %	0.000 %	109.749 %
Concentration RSD	0.7 %	0.6 %	1.0 %	0.4 %	1.3 %	0.5 %	3.5 %

	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	0.0492 ppm	0.5655 ppm	0.0567 ppm	0.0534 ppm	0.0512 ppm	0.0514 ppm	0.0515 ppm
Concentration per Run 1	0.0484 ppm	0.5699 ppm	0.0574 ppm	0.0536 ppm	0.0515 ppm	0.0517 ppm	0.0519 ppm
Concentration per Run 2	0.0496 ppm	0.5679 ppm	0.0566 ppm	0.0536 ppm	0.0510 ppm	0.0521 ppm	0.0515 ppm
Concentration per Run 3	0.0497 ppm	0.5588 ppm	0.0560 ppm	0.0531 ppm	0.0509 ppm	0.0503 ppm	0.0512 ppm
Recovery Percentage 1	0.000 %	113.107 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	1.5 %	1.0 %	1.2 %	0.5 %	0.6 %	1.8 %	0.7 %

	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	0.0536 ppm	100.0855 %	101.9604 %	96.1280 %	99.3966 %	101.2617 %	98.5632 %
Concentration per Run 1	0.0544 ppm	98.7335 %	101.7854 %	95.4007 %	98.9317 %	101.3069 %	98.3993 %
Concentration per Run 2	0.0530 ppm	100.2627 %	101.2026 %	96.0451 %	99.5135 %	100.7619 %	98.4537 %
Concentration per Run 3	0.0535 ppm	101.2602 %	102.8933 %	96.9381 %	99.7448 %	101.7162 %	98.8368 %
Recovery Percentage 1	107.287 %						
Concentration RSD	1.3 %	1.3 %	0.8 %	0.8 %	0.4 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: LDR 20PPM As pass
Analysis started at: 12/18/2024 7:23:58 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	0.0000 ppm	-0.0007 ppm	19.4088 ppm	-0.0038 ppm	0.0000 ppm	0.0000 ppm	0.0063 ppm
Concentration per Run 1	-0.0001 ppm	-0.0046 ppm	19.2638 ppm	-0.0028 ppm	0.0000 ppm	0.0000 ppm	0.0071 ppm
Concentration per Run 2	0.0000 ppm	-0.0011 ppm	19.4710 ppm	-0.0037 ppm	0.0000 ppm	0.0000 ppm	0.0063 ppm
Concentration per Run 3	0.0000 ppm	0.0036 ppm	19.4915 ppm	-0.0048 ppm	0.0000 ppm	0.0000 ppm	0.0055 ppm
Concentration RSD	678.4 %	595.5 %	0.6 %	27.4 %	169.9 %	210.8 %	12.9 %

	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	0.0000 ppm	0.0002 ppm	-0.0001 ppm	-0.0004 ppm	0.0056 ppm	0.0179 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	-0.0001 ppm	-0.0003 ppm	0.0049 ppm	0.0159 ppm	0.0005 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0006 ppm	0.0063 ppm	0.0187 ppm	0.0004 ppm
Concentration per Run 3	0.0001 ppm	0.0003 ppm	-0.0001 ppm	-0.0004 ppm	0.0056 ppm	0.0192 ppm	0.0010 ppm
Concentration RSD	195.8 %	102.3 %	24.0 %	39.3 %	11.7 %	10.0 %	48.3 %

	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	0.0011 ppm	0.0001 ppm	0.0009 ppm	0.0239 ppm	0.0005 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 1	0.0014 ppm	0.0002 ppm	0.0009 ppm	0.0234 ppm	0.0007 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 2	0.0022 ppm	0.0001 ppm	0.0008 ppm	0.0238 ppm	0.0007 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run 3	-0.0003 ppm	0.0001 ppm	0.0009 ppm	0.0245 ppm	0.0001 ppm	0.0003 ppm	0.0007 ppm
Concentration RSD	118.1 %	32.1 %	8.3 %	2.3 %	71.2 %	307.5 %	157.2 %

	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	0.0003 ppm	-0.0011 ppm	0.0011 ppm	0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 1	-0.0010 ppm	-0.0020 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 2	0.0004 ppm	-0.0013 ppm	0.0006 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 3	0.0015 ppm	0.0002 ppm	0.0014 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm
Concentration RSD	459.0 %	105.0 %	37.2 %	11.0 %	137.1 %	27.9 %	945.4 %

	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	0.0013 ppm	102.1041 %	101.8117 %	97.0764 %	99.9025 %	101.3309 %	99.3346 %
Concentration per Run 1	0.0013 ppm	100.5897 %	101.9276 %	96.6218 %	99.2947 %	101.5395 %	99.3489 %
Concentration per Run 2	0.0014 ppm	102.0289 %	102.3167 %	97.3261 %	99.8974 %	102.3118 %	99.4439 %
Concentration per Run 3	0.0012 ppm	103.6939 %	101.1909 %	97.2812 %	100.5153 %	100.1414 %	99.2111 %
Concentration RSD	8.2 %	1.5 %	0.6 %	0.4 %	0.6 %	1.1 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: xLDR 500PPM Fe
Analysis started at: 12/18/2024 7:28:22 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	0.0006 ppm	0.0361 ppm	0.0079 ppm	0.0011 ppm	0.0004 ppm	0.0000 ppm	0.0114 ppm
Concentration per Run 1	0.0006 ppm	0.0359 ppm	0.0071 ppm	0.0013 ppm	0.0004 ppm	0.0000 ppm	0.0123 ppm
Concentration per Run 2	0.0010 ppm	0.0355 ppm	0.0071 ppm	0.0005 ppm	0.0004 ppm	0.0000 ppm	0.0116 ppm
Concentration per Run 3	0.0003 ppm	0.0369 ppm	0.0095 ppm	0.0015 ppm	0.0004 ppm	0.0000 ppm	0.0105 ppm
Concentration RSD	54.8 %	2.0 %	17.5 %	45.1 %	6.8 %	149.9 %	7.9 %

	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	0.0004 ppm	-0.0017 ppm	-0.0015 ppm	0.0001 ppm	432.7280 [SIC 500]	-0.0429 ppm	0.0006 ppm
Concentration per Run 1	0.0005 ppm	-0.0020 ppm	-0.0015 ppm	0.0000 ppm	430.4443 ppm	-0.0413 ppm	0.0007 ppm
Concentration per Run 2	0.0005 ppm	-0.0017 ppm	-0.0015 ppm	-0.0002 ppm	434.1392 ppm	-0.0436 ppm	0.0008 ppm
Concentration per Run 3	0.0004 ppm	-0.0015 ppm	-0.0016 ppm	0.0004 ppm	433.6006 ppm	-0.0439 ppm	0.0004 ppm
Concentration RSD	6.6 %	12.3 %	4.5 %	522.1 %	0.5 %	3.3 %	27.9 %

	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	0.0475 ppm	0.0006 ppm	-0.0025 ppm	0.0180 ppm	-0.0009 ppm	-0.0015 ppm	0.0055 ppm
Concentration per Run 1	0.0469 ppm	0.0006 ppm	-0.0025 ppm	0.0177 ppm	-0.0012 ppm	-0.0009 ppm	0.0056 ppm
Concentration per Run 2	0.0470 ppm	0.0006 ppm	-0.0024 ppm	0.0194 ppm	-0.0005 ppm	-0.0012 ppm	0.0064 ppm
Concentration per Run 3	0.0484 ppm	0.0007 ppm	-0.0027 ppm	0.0170 ppm	-0.0009 ppm	-0.0023 ppm	0.0045 ppm
Concentration RSD	1.8 %	6.7 %	6.3 %	6.8 %	37.5 %	51.7 %	17.9 %

	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	-0.0017 ppm	0.0030 ppm	0.0004 ppm	0.0000 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 1	-0.0013 ppm	0.0008 ppm	0.0033 ppm	0.0004 ppm	0.0001 ppm	0.0013 ppm	0.0000 ppm
Concentration per Run 2	0.0010 ppm	-0.0032 ppm	0.0028 ppm	0.0004 ppm	-0.0001 ppm	0.0009 ppm	0.0000 ppm
Concentration per Run 3	-0.0003 ppm	-0.0026 ppm	0.0030 ppm	0.0004 ppm	0.0000 ppm	-0.0005 ppm	-0.0001 ppm
Concentration RSD	655.1 %	130.5 %	8.1 %	7.0 %	796.9 %	172.5 %	149.0 %

	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	0.0001 ppm	99.6106 %	99.5484 %	82.8231 %	94.1578 %	97.5879 %	92.0820 %
Concentration per Run 1	0.0001 ppm	99.1269 %	99.6516 %	82.6351 %	93.6797 %	97.6670 %	92.0468 %
Concentration per Run 2	0.0002 ppm	100.0351 %	99.0941 %	83.1473 %	94.7315 %	97.3289 %	92.4128 %
Concentration per Run 3	0.0000 ppm	99.6698 %	99.8996 %	82.6870 %	94.0622 %	97.7679 %	91.7863 %
Concentration RSD	109.0 %	0.5 %	0.4 %	0.3 %	0.6 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: LDR 1000PPM Ca pass
Analysis started at: 12/18/2024 7:33:48 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	-0.0009 ppm	0.0199 ppm	0.0015 ppm	0.0000 ppm	0.0009 ppm	0.0000 ppm	924.7878 ppm
Concentration per Run 1	-0.0009 ppm	0.0206 ppm	0.0025 ppm	-0.0006 ppm	0.0009 ppm	0.0000 ppm	922.5890 ppm
Concentration per Run 2	-0.0009 ppm	0.0203 ppm	0.0010 ppm	0.0001 ppm	0.0009 ppm	0.0000 ppm	930.7450 ppm
Concentration per Run 3	-0.0009 ppm	0.0187 ppm	0.0012 ppm	0.0005 ppm	0.0009 ppm	0.0000 ppm	921.0293 ppm
Concentration RSD	0.3 %	5.2 %	52.8 %	8,080.6 %	2.2 %	19.7 %	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	-0.0007 ppm	0.0005 ppm	0.0002 ppm	0.0007 ppm	0.0314 ppm	0.0272 ppm	0.0157 ppm
Concentration per Run 1	-0.0007 ppm	0.0007 ppm	0.0003 ppm	0.0009 ppm	0.0346 ppm	0.0320 ppm	0.0204 ppm
Concentration per Run 2	-0.0007 ppm	0.0004 ppm	0.0001 ppm	0.0007 ppm	0.0312 ppm	0.0271 ppm	0.0116 ppm
Concentration per Run 3	-0.0009 ppm	0.0005 ppm	0.0004 ppm	0.0006 ppm	0.0285 ppm	0.0225 ppm	0.0151 ppm
Concentration RSD	14.5 %	21.8 %	60.1 %	23.3 %	9.7 %	17.5 %	28.3 %

	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	0.0128 ppm	0.0005 ppm	0.0006 ppm	0.0222 ppm	0.0010 ppm	0.0015 ppm	-0.0010 ppm
Concentration per Run 1	0.0133 ppm	0.0005 ppm	0.0006 ppm	0.0214 ppm	0.0008 ppm	0.0008 ppm	0.0003 ppm
Concentration per Run 2	0.0124 ppm	0.0005 ppm	0.0008 ppm	0.0219 ppm	0.0012 ppm	0.0003 ppm	-0.0020 ppm
Concentration per Run 3	0.0127 ppm	0.0005 ppm	0.0003 ppm	0.0232 ppm	0.0011 ppm	0.0033 ppm	-0.0014 ppm
Concentration RSD	3.6 %	7.5 %	50.8 %	4.1 %	21.6 %	109.0 %	112.7 %

	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	-0.0004 ppm	0.0027 ppm	0.0002 ppm	0.0020 ppm	-0.0017 ppm	0.0004 ppm	0.0006 ppm
Concentration per Run 1	-0.0033 ppm	0.0023 ppm	0.0010 ppm	0.0020 ppm	-0.0021 ppm	-0.0003 ppm	0.0006 ppm
Concentration per Run 2	0.0008 ppm	0.0027 ppm	-0.0002 ppm	0.0020 ppm	-0.0013 ppm	0.0005 ppm	0.0004 ppm
Concentration per Run 3	0.0014 ppm	0.0032 ppm	-0.0002 ppm	0.0021 ppm	-0.0019 ppm	0.0010 ppm	0.0007 ppm
Concentration RSD	719.7 %	16.5 %	323.1 %	2.6 %	24.6 %	160.2 %	21.8 %

	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	0.0013 ppm	80.3468 %	90.6722 %	68.3366 %	82.5952 %	92.2549 %	82.6286 %
Concentration per Run 1	0.0016 ppm	79.4776 %	91.2142 %	68.0930 %	82.5773 %	93.1135 %	82.7835 %
Concentration per Run 2	0.0010 ppm	79.9962 %	89.9340 %	68.1335 %	82.1367 %	91.7043 %	82.5533 %
Concentration per Run 3	0.0015 ppm	81.5667 %	90.8683 %	68.7834 %	83.0715 %	91.9468 %	82.5489 %
Concentration RSD	25.4 %	1.4 %	0.7 %	0.6 %	0.6 %	0.8 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCV
Analysis started at: 12/18/2024 7:51:47 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	0.4757 ppm	0.4684 ppm	0.4783 ppm	0.4841 ppm	0.4853 ppm	0.5014 ppm	0.4895 ppm
Concentration per Run 1	0.4784 ppm	0.4682 ppm	0.4769 ppm	0.4886 ppm	0.4837 ppm	0.5034 ppm	0.4940 ppm
Concentration per Run 2	0.4753 ppm	0.4700 ppm	0.4782 ppm	0.4866 ppm	0.4863 ppm	0.5016 ppm	0.4894 ppm
Concentration per Run 3	0.4733 ppm	0.4670 ppm	0.4798 ppm	0.4772 ppm	0.4859 ppm	0.4992 ppm	0.4853 ppm
Recovery Percentage 1	95.132 %	93.680 %	95.662 %	96.826 %	97.055 %	100.280 %	97.909 %
Concentration RSD	0.5 %	0.3 %	0.3 %	1.3 %	0.3 %	0.4 %	0.9 %

	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	0.4929 ppm	0.5078 ppm	0.4862 ppm	0.4796 ppm	0.5000 ppm	5.1285 ppm	0.4957 ppm
Concentration per Run 1	0.4986 ppm	0.5138 ppm	0.4901 ppm	0.4837 ppm	0.5014 ppm	5.1117 ppm	0.4940 ppm
Concentration per Run 2	0.4933 ppm	0.5088 ppm	0.4856 ppm	0.4785 ppm	0.5011 ppm	5.1489 ppm	0.4948 ppm
Concentration per Run 3	0.4867 ppm	0.5009 ppm	0.4828 ppm	0.4766 ppm	0.4975 ppm	5.1248 ppm	0.4984 ppm
Recovery Percentage 1	98.575 %	101.565 %	97.234 %	95.918 %	100.002 %	102.569 %	99.145 %
Concentration RSD	1.2 %	1.3 %	0.8 %	0.8 %	0.4 %	0.4 %	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	0.4925 ppm	0.4821 ppm	0.4994 ppm	9.9960 ppm	0.5045 ppm	0.4822 ppm	0.4983 ppm
Concentration per Run 1	0.4961 ppm	0.4850 ppm	0.5003 ppm	9.8695 ppm	0.5076 ppm	0.4810 ppm	0.4984 ppm
Concentration per Run 2	0.4924 ppm	0.4811 ppm	0.5000 ppm	10.0522 ppm	0.5052 ppm	0.4836 ppm	0.4968 ppm
Concentration per Run 3	0.4890 ppm	0.4801 ppm	0.4979 ppm	10.0663 ppm	0.5006 ppm	0.4819 ppm	0.4997 ppm
Recovery Percentage 1	98.495 %	96.416 %	99.881 %	99.960 %	100.894 %	96.432 %	99.660 %
Concentration RSD	0.7 %	0.5 %	0.3 %	1.1 %	0.7 %	0.3 %	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	0.4787 ppm	5.3828 ppm	0.5140 ppm	0.5152 ppm	0.4872 ppm	0.4831 ppm	0.4899 ppm
Concentration per Run 1	0.4780 ppm	5.4331 ppm	0.5172 ppm	0.5139 ppm	0.4921 ppm	0.4825 ppm	0.4941 ppm
Concentration per Run 2	0.4816 ppm	5.3759 ppm	0.5160 ppm	0.5157 ppm	0.4868 ppm	0.4818 ppm	0.4904 ppm
Concentration per Run 3	0.4765 ppm	5.3392 ppm	0.5087 ppm	0.5160 ppm	0.4828 ppm	0.4851 ppm	0.4852 ppm
Recovery Percentage 1	95.741 %	102.529 %	102.793 %	103.040 %	97.448 %	96.624 %	97.980 %
Concentration RSD	0.5 %	0.9 %	0.9 %	0.2 %	1.0 %	0.4 %	0.9 %

	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	0.4978 ppm	101.3836 %	100.9168 %	94.7434 %	97.2026 %	99.6614 %	97.1975 %
Concentration per Run 1	0.5016 ppm	100.5706 %	99.9206 %	94.6531 %	97.2481 %	99.0002 %	97.5240 %
Concentration per Run 2	0.4991 ppm	101.2302 %	101.6197 %	94.7717 %	96.8546 %	100.7068 %	96.9367 %
Concentration per Run 3	0.4926 ppm	102.3499 %	101.2101 %	94.8053 %	97.5050 %	99.2773 %	97.1317 %
Recovery Percentage 1	99.555 %						
Concentration RSD	0.9 %	0.9 %	0.9 %	0.1 %	0.3 %	0.9 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCB
Analysis started at: 12/18/2024 7:56:18 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	-0.0043 ppm	0.0016 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0015 ppm
Concentration per Run 1	0.0001 ppm	-0.0047 ppm	0.0012 ppm	-0.0007 ppm	0.0001 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 2	0.0000 ppm	-0.0056 ppm	0.0024 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	-0.0031 ppm
Concentration per Run 3	-0.0002 ppm	-0.0027 ppm	0.0012 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0007 ppm
Recovery Percentage 1	-0.983 %	-4.339 %	32.462 %	-0.113 %	0.199 %	0.515 %	-1.489 %
Concentration RSD	325.3 %	33.9 %	43.1 %	2,130.5 %	245.9 %	47.1 %	96.5 %

	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	-0.0001 ppm	-0.0001 ppm	-0.0003 ppm	0.0008 ppm	0.0173 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0104 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	-0.0003 ppm	0.0004 ppm	0.0227 ppm	0.0004 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	-0.0002 ppm	-0.0003 ppm	0.0019 ppm	0.0188 ppm	0.0007 ppm
Recovery Percentage 1	0.812 %	-0.705 %	-1.405 %	-2.640 %	1.564 %	0.692 %	5.565 %
Concentration RSD	215.4 %	269.1 %	46.1 %	46.6 %	120.5 %	36.2 %	20.5 %

	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	-0.0004 ppm	0.0001 ppm	0.0035 ppm	0.0052 ppm	0.0006 ppm	0.0004 ppm	0.0009 ppm
Concentration per Run 1	-0.0001 ppm	0.0000 ppm	0.0035 ppm	0.0065 ppm	0.0009 ppm	0.0005 ppm	0.0021 ppm
Concentration per Run 2	-0.0009 ppm	0.0002 ppm	0.0036 ppm	0.0022 ppm	0.0007 ppm	0.0010 ppm	0.0015 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	0.0035 ppm	0.0068 ppm	0.0004 ppm	-0.0002 ppm	-0.0008 ppm
Recovery Percentage 1	-0.354 %	0.808 %	7.039 %	0.259 %	2.520 %	4.312 %	1.842 %
Concentration RSD	127.1 %	83.7 %	1.4 %	49.4 %	41.0 %	132.8 %	161.4 %

	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	-0.0013 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	-0.0006 ppm	-0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 2	0.0024 ppm	-0.0015 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 3	0.0013 ppm	-0.0013 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm
Recovery Percentage 1	10.401 %	-0.267 %	0.471 %	0.497 %	0.243 %	-0.119 %	0.103 %
Concentration RSD	143.0 %	9.0 %	87.6 %	33.5 %	89.0 %	422.6 %	553.1 %

	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	99.2399 %	100.0780 %	95.0356 %	98.7252 %	100.1876 %	98.8655 %
Concentration per Run 1	0.0002 ppm	97.7280 %	99.7939 %	94.8067 %	97.8783 %	100.2370 %	98.7667 %
Concentration per Run 2	0.0001 ppm	99.6514 %	100.2013 %	94.9388 %	99.4496 %	100.2544 %	98.8757 %
Concentration per Run 3	0.0001 ppm	100.3404 %	100.2389 %	95.3612 %	98.8476 %	100.0712 %	98.9541 %
Recovery Percentage 1	2.635 %						
Concentration RSD	29.7 %	1.4 %	0.2 %	0.3 %	0.8 %	0.1 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010492-1 WG2010492
Analysis started at: 12/18/2024 8:14:29 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	0.0206 ppm	0.0008 ppm	0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0389 ppm
Concentration per Run 1	0.0000 ppm	0.0217 ppm	0.0004 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0389 ppm
Concentration per Run 2	-0.0001 ppm	0.0206 ppm	0.0010 ppm	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0398 ppm
Concentration per Run 3	0.0000 ppm	0.0196 ppm	0.0009 ppm	0.0003 ppm	0.0002 ppm	0.0000 ppm	0.0378 ppm
Recovery Percentage 1	-0.613 %	20.622 %	15.813 %	0.230 %	1.926 %	0.161 %	38.855 %
Concentration RSD	121.6 %	5.0 %	41.2 %	335.8 %	34.0 %	125.4 %	2.7 %

	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	0.0001 ppm	0.0006 ppm	0.0000 ppm	0.0535 ppm	0.0238 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0008 ppm	0.0001 ppm	0.0546 ppm	0.0237 ppm	0.0005 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	0.0005 ppm	0.0001 ppm	0.0530 ppm	0.0206 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0005 ppm	-0.0001 ppm	0.0528 ppm	0.0271 ppm	0.0004 ppm
Recovery Percentage 1	-0.288 %	1.109 %	5.979 %	0.450 %	106.949 %	0.952 %	5.407 %
Concentration RSD	164.5 %	220.9 %	25.5 %	228.4 %	1.9 %	13.6 %	19.5 %

	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	0.0095 ppm	0.0010 ppm	0.0005 ppm	0.0144 ppm	0.0003 ppm	-0.0002 ppm	-0.0010 ppm
Concentration per Run 1	0.0092 ppm	0.0011 ppm	0.0007 ppm	0.0115 ppm	0.0001 ppm	-0.0003 ppm	-0.0014 ppm
Concentration per Run 2	0.0101 ppm	0.0011 ppm	0.0004 ppm	0.0170 ppm	0.0003 ppm	-0.0008 ppm	-0.0011 ppm
Concentration per Run 3	0.0094 ppm	0.0009 ppm	0.0003 ppm	0.0147 ppm	0.0005 ppm	0.0005 ppm	-0.0004 ppm
Recovery Percentage 1	9.543 %	10.091 %	0.942 %	0.719 %	1.239 %	-1.949 %	-1.934 %
Concentration RSD	5.1 %	10.2 %	36.2 %	19.2 %	63.8 %	335.2 %	50.7 %

	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	0.0009 ppm	0.0211 ppm	0.0011 ppm	0.0001 ppm	0.0014 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 1	0.0019 ppm	0.0210 ppm	0.0016 ppm	0.0002 ppm	0.0015 ppm	-0.0012 ppm	0.0000 ppm
Concentration per Run 2	0.0020 ppm	0.0222 ppm	0.0011 ppm	0.0001 ppm	0.0012 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 3	-0.0012 ppm	0.0201 ppm	0.0007 ppm	0.0001 ppm	0.0016 ppm	-0.0002 ppm	-0.0001 ppm
Recovery Percentage 1	8.897 %	4.224 %	2.261 %	1.172 %	14.219 %	-2.471 %	-0.701 %
Concentration RSD	203.0 %	5.0 %	43.6 %	49.1 %	15.8 %	121.0 %	92.5 %

	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	0.0019 ppm	101.8939 %	101.2109 %	96.8109 %	99.1094 %	100.8622 %	98.2629 %
Concentration per Run 1	0.0019 ppm	101.2706 %	100.2690 %	96.4127 %	99.3415 %	100.1341 %	98.1394 %
Concentration per Run 2	0.0020 ppm	101.4280 %	101.3109 %	96.9779 %	98.6536 %	100.9986 %	98.2701 %
Concentration per Run 3	0.0019 ppm	102.9831 %	102.0528 %	97.0421 %	99.3332 %	101.4539 %	98.3791 %
Recovery Percentage 1	37.912 %						
Concentration RSD	3.5 %	0.9 %	0.9 %	0.4 %	0.4 %	0.7 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010492-2D2 WG2010492
Analysis started at: 12/18/2024 8:19:01 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	0.0463 ppm	2.0691 ppm	0.1202 ppm	0.9802 ppm	1.9630 ppm	0.0512 ppm	10.1778 ppm
Concentration per Run 1	0.0475 ppm	2.0749 ppm	0.1208 ppm	1.0047 ppm	1.9702 ppm	0.0512 ppm	10.1605 ppm
Concentration per Run 2	0.0457 ppm	2.0595 ppm	0.1203 ppm	0.9732 ppm	1.9505 ppm	0.0509 ppm	10.1509 ppm
Concentration per Run 3	0.0457 ppm	2.0729 ppm	0.1196 ppm	0.9625 ppm	1.9684 ppm	0.0515 ppm	10.2221 ppm
Concentration RSD	2.2 %	0.4 %	0.5 %	2.2 %	0.6 %	0.6 %	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	0.0539 ppm	0.5182 ppm	0.2022 ppm	0.2553 ppm	1.0446 ppm	10.4379 ppm	0.0010 ppm
Concentration per Run 1	0.0552 ppm	0.5315 ppm	0.2072 ppm	0.2620 ppm	1.0493 ppm	10.5087 ppm	0.0008 ppm
Concentration per Run 2	0.0537 ppm	0.5153 ppm	0.2010 ppm	0.2537 ppm	1.0362 ppm	10.3663 ppm	0.0009 ppm
Concentration per Run 3	0.0529 ppm	0.5076 ppm	0.1986 ppm	0.2500 ppm	1.0484 ppm	10.4387 ppm	0.0012 ppm
Concentration RSD	2.2 %	2.4 %	2.2 %	2.4 %	0.7 %	0.7 %	23.0 %

	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	10.2936 ppm	0.4936 ppm	1.0568 ppm	10.5291 ppm	0.5000 ppm	0.5296 ppm	0.5011 ppm
Concentration per Run 1	10.5090 ppm	0.4934 ppm	1.0753 ppm	10.5376 ppm	0.5103 ppm	0.5314 ppm	0.5157 ppm
Concentration per Run 2	10.2275 ppm	0.4906 ppm	1.0511 ppm	10.6113 ppm	0.4985 ppm	0.5272 ppm	0.4964 ppm
Concentration per Run 3	10.1444 ppm	0.4969 ppm	1.0439 ppm	10.4384 ppm	0.4913 ppm	0.5301 ppm	0.4912 ppm
Concentration RSD	1.9 %	0.6 %	1.6 %	0.8 %	1.9 %	0.4 %	2.6 %

	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	0.1158 ppm	1.1455 ppm	1.0308 ppm	0.9932 ppm	1.0221 ppm	0.1204 ppm	0.5198 ppm
Concentration per Run 1	0.1178 ppm	1.1732 ppm	1.0539 ppm	0.9940 ppm	1.0478 ppm	0.1213 ppm	0.5314 ppm
Concentration per Run 2	0.1152 ppm	1.1387 ppm	1.0322 ppm	0.9922 ppm	1.0134 ppm	0.1199 ppm	0.5164 ppm
Concentration per Run 3	0.1143 ppm	1.1248 ppm	1.0063 ppm	0.9933 ppm	1.0052 ppm	0.1199 ppm	0.5115 ppm
Concentration RSD	1.6 %	2.2 %	2.3 %	0.1 %	2.2 %	0.7 %	2.0 %

	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	0.5019 ppm	98.3236 %	100.4397 %	89.9271 %	93.3175 %	98.4220 %	95.0890 %
Concentration per Run 1	0.5126 ppm	96.3032 %	100.4822 %	89.7138 %	90.5673 %	98.5793 %	95.0277 %
Concentration per Run 2	0.5022 ppm	98.7664 %	101.0007 %	90.2074 %	94.4843 %	98.7533 %	95.3454 %
Concentration per Run 3	0.4909 ppm	99.9011 %	99.8361 %	89.8601 %	94.9008 %	97.9333 %	94.8939 %
Concentration RSD	2.2 %	1.9 %	0.6 %	0.3 %	2.6 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473791-29D2 WG2010492
Analysis started at: 12/18/2024 8:23:27 AM
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	0.0016 ppm	78.9490 ppm	0.0950 ppm	0.0076 ppm	0.3138 ppm	0.0039 ppm	7.4114 ppm
Concentration per Run 1	0.0016 ppm	78.6382 ppm	0.0960 ppm	0.0083 ppm	0.3152 ppm	0.0039 ppm	7.4225 ppm
Concentration per Run 2	0.0015 ppm	78.9539 ppm	0.0933 ppm	0.0069 ppm	0.3128 ppm	0.0039 ppm	7.4132 ppm
Concentration per Run 3	0.0017 ppm	79.2550 ppm	0.0955 ppm	0.0075 ppm	0.3135 ppm	0.0038 ppm	7.3985 ppm
Concentration RSD	7.8 %	0.4 %	1.5 %	9.3 %	0.4 %	0.5 %	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	0.0008 ppm	0.0608 ppm	0.1155 ppm	0.2022 ppm	187.6146 ppm	3.8377 ppm	0.1044 ppm
Concentration per Run 1	0.0010 ppm	0.0615 ppm	0.1160 ppm	0.2036 ppm	188.1794 ppm	3.8333 ppm	0.1052 ppm
Concentration per Run 2	0.0008 ppm	0.0607 ppm	0.1160 ppm	0.2011 ppm	187.3438 ppm	3.8190 ppm	0.1038 ppm
Concentration per Run 3	0.0008 ppm	0.0603 ppm	0.1146 ppm	0.2019 ppm	187.3207 ppm	3.8609 ppm	0.1043 ppm
Concentration RSD	12.8 %	1.0 %	0.7 %	0.6 %	0.3 %	0.6 %	0.7 %

	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	19.4571 ppm	2.5689 ppm	0.0152 ppm	0.4699 ppm	0.1415 ppm	0.1104 ppm	0.0012 ppm
Concentration per Run 1	19.5071 ppm	2.5809 ppm	0.0154 ppm	0.4648 ppm	0.1417 ppm	0.1114 ppm	-0.0001 ppm
Concentration per Run 2	19.5003 ppm	2.5598 ppm	0.0150 ppm	0.4693 ppm	0.1411 ppm	0.1114 ppm	0.0015 ppm
Concentration per Run 3	19.3639 ppm	2.5662 ppm	0.0153 ppm	0.4756 ppm	0.1416 ppm	0.1085 ppm	0.0022 ppm
Concentration RSD	0.4 %	0.4 %	1.3 %	1.2 %	0.2 %	1.5 %	101.7 %

	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	-0.0004 ppm	4.1185 ppm	0.0052 ppm	0.0423 ppm	0.7370 ppm	0.0008 ppm	0.1462 ppm
Concentration per Run 1	-0.0021 ppm	4.1583 ppm	0.0047 ppm	0.0425 ppm	0.7448 ppm	0.0014 ppm	0.1475 ppm
Concentration per Run 2	0.0006 ppm	4.1236 ppm	0.0054 ppm	0.0424 ppm	0.7381 ppm	0.0008 ppm	0.1457 ppm
Concentration per Run 3	0.0003 ppm	4.0736 ppm	0.0056 ppm	0.0419 ppm	0.7282 ppm	0.0002 ppm	0.1453 ppm
Concentration RSD	343.4 %	1.0 %	8.8 %	0.7 %	1.1 %	70.4 %	0.8 %

	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	0.4779 ppm	102.7107 %	104.6000 %	87.8070 %	108.3441 %	116.6447 %	110.4429 %
Concentration per Run 1	0.4800 ppm	102.2068 %	104.3800 %	87.5444 %	108.0209 %	116.3664 %	110.2627 %
Concentration per Run 2	0.4779 ppm	102.6641 %	104.6060 %	88.1158 %	108.2993 %	116.5622 %	111.2996 %
Concentration per Run 3	0.4758 ppm	103.2611 %	104.8140 %	87.7609 %	108.7122 %	117.0055 %	109.7665 %
Concentration RSD	0.4 %	0.5 %	0.2 %	0.3 %	0.3 %	0.3 %	0.7 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473791-31D2 WG2010492
Analysis started at: 12/18/2024 8:27:50 AM
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	0.0019 ppm	168.9071 ppm	0.0690 ppm	0.3303 ppm	1.4518 ppm	0.0278 ppm	716.2927 ppm
Concentration per Run 1	0.0017 ppm	168.1639 ppm	0.0701 ppm	0.3313 ppm	1.4530 ppm	0.0278 ppm	715.9058 ppm
Concentration per Run 2	0.0018 ppm	169.4259 ppm	0.0704 ppm	0.3310 ppm	1.4511 ppm	0.0278 ppm	717.8574 ppm
Concentration per Run 3	0.0022 ppm	169.1314 ppm	0.0664 ppm	0.3286 ppm	1.4512 ppm	0.0278 ppm	715.1150 ppm
Concentration RSD	13.9 %	0.4 %	3.3 %	0.5 %	0.1 %	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	-0.0029 ppm	0.0397 ppm	1.4008 ppm	0.1054 ppm	203.9423 ppm	14.1198 ppm	0.1770 ppm
Concentration per Run 1	-0.0029 ppm	0.0398 ppm	1.4087 ppm	0.1057 ppm	204.0362 ppm	14.1418 ppm	0.1668 ppm
Concentration per Run 2	-0.0030 ppm	0.0395 ppm	1.4049 ppm	0.1047 ppm	204.4241 ppm	14.1071 ppm	0.1837 ppm
Concentration per Run 3	-0.0029 ppm	0.0397 ppm	1.3886 ppm	0.1057 ppm	203.3667 ppm	14.1107 ppm	0.1806 ppm
Concentration RSD	1.0 %	0.5 %	0.8 %	0.6 %	0.3 %	0.1 %	5.1 %

	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	196.7555 ppm	12.9945 ppm	0.0453 ppm	7.3916 ppm	0.5183 ppm	0.0522 ppm	-0.0003 ppm
Concentration per Run 1	198.0176 ppm	13.0044 ppm	0.0447 ppm	7.3204 ppm	0.5213 ppm	0.0539 ppm	0.0033 ppm
Concentration per Run 2	197.4223 ppm	13.0290 ppm	0.0455 ppm	7.3957 ppm	0.5201 ppm	0.0528 ppm	-0.0050 ppm
Concentration per Run 3	194.8267 ppm	12.9501 ppm	0.0455 ppm	7.4587 ppm	0.5135 ppm	0.0498 ppm	0.0008 ppm
Concentration RSD	0.9 %	0.3 %	1.0 %	0.9 %	0.8 %	4.1 %	1,516.9 %

	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	0.0067 ppm	5.0322 ppm	0.0071 ppm	1.9680 ppm	3.7694 ppm	-0.0092 ppm	0.1661 ppm
Concentration per Run 1	0.0055 ppm	5.0652 ppm	0.0058 ppm	1.9601 ppm	3.7939 ppm	-0.0110 ppm	0.1676 ppm
Concentration per Run 2	0.0045 ppm	5.0192 ppm	0.0074 ppm	1.9762 ppm	3.7712 ppm	-0.0079 ppm	0.1666 ppm
Concentration per Run 3	0.0101 ppm	5.0121 ppm	0.0080 ppm	1.9676 ppm	3.7430 ppm	-0.0087 ppm	0.1642 ppm
Concentration RSD	44.7 %	0.6 %	16.3 %	0.4 %	0.7 %	17.3 %	1.0 %

	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	0.2156 ppm	92.2354 %	101.9746 %	67.9529 %	118.2984 %	138.4292 %	120.6924 %
Concentration per Run 1	0.2164 ppm	91.6920 %	101.4199 %	66.7982 %	118.1493 %	138.1406 %	119.9496 %
Concentration per Run 2	0.2174 ppm	92.5100 %	102.1240 %	67.7508 %	118.8623 %	138.3900 %	120.1535 %
Concentration per Run 3	0.2131 ppm	92.5041 %	102.3799 %	69.3098 %	117.8837 %	138.7569 %	121.9740 %
Concentration RSD	1.0 %	0.5 %	0.5 %	1.9 %	0.4 %	0.2 %	0.9 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473791-32D2 WG2010492
Analysis started at: 12/18/2024 8:32:13 AM
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	0.0039 ppm	93.5362 ppm	0.0403 ppm	0.0146 ppm	1.1665 ppm	0.0090 ppm	23.1875 ppm
Concentration per Run 1	0.0033 ppm	93.5575 ppm	0.0416 ppm	0.0140 ppm	1.1728 ppm	0.0090 ppm	23.0917 ppm
Concentration per Run 2	0.0043 ppm	93.9002 ppm	0.0405 ppm	0.0149 ppm	1.1630 ppm	0.0090 ppm	23.2242 ppm
Concentration per Run 3	0.0040 ppm	93.1508 ppm	0.0390 ppm	0.0151 ppm	1.1636 ppm	0.0090 ppm	23.2467 ppm
Concentration RSD	13.1 %	0.4 %	3.3 %	3.9 %	0.5 %	0.4 %	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	0.0026 ppm	0.2761 ppm	0.1935 ppm	0.2755 ppm	306.2318 ppm	11.1493 ppm	0.1706 ppm
Concentration per Run 1	0.0022 ppm	0.2764 ppm	0.1939 ppm	0.2754 ppm	305.8508 ppm	11.2213 ppm	0.1726 ppm
Concentration per Run 2	0.0030 ppm	0.2763 ppm	0.1936 ppm	0.2761 ppm	305.7977 ppm	11.1445 ppm	0.1697 ppm
Concentration per Run 3	0.0025 ppm	0.2757 ppm	0.1930 ppm	0.2749 ppm	307.0469 ppm	11.0822 ppm	0.1694 ppm
Concentration RSD	16.5 %	0.1 %	0.2 %	0.2 %	0.2 %	0.6 %	1.1 %

	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	38.6827 ppm	5.9527 ppm	0.0052 ppm	2.4515 ppm	0.4638 ppm	0.2149 ppm	0.0033 ppm
Concentration per Run 1	38.8285 ppm	5.9473 ppm	0.0052 ppm	2.4490 ppm	0.4647 ppm	0.2168 ppm	0.0031 ppm
Concentration per Run 2	38.6321 ppm	5.9524 ppm	0.0053 ppm	2.4786 ppm	0.4644 ppm	0.2150 ppm	0.0029 ppm
Concentration per Run 3	38.5875 ppm	5.9584 ppm	0.0050 ppm	2.4269 ppm	0.4624 ppm	0.2130 ppm	0.0040 ppm
Concentration RSD	0.3 %	0.1 %	3.1 %	1.1 %	0.3 %	0.9 %	18.2 %

	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	0.0022 ppm	7.0462 ppm	0.0061 ppm	0.2193 ppm	0.4406 ppm	-0.0035 ppm	0.1981 ppm
Concentration per Run 1	0.0030 ppm	6.9861 ppm	0.0054 ppm	0.2200 ppm	0.4365 ppm	-0.0037 ppm	0.2004 ppm
Concentration per Run 2	0.0027 ppm	7.1086 ppm	0.0056 ppm	0.2187 ppm	0.4452 ppm	-0.0042 ppm	0.1962 ppm
Concentration per Run 3	0.0009 ppm	7.0440 ppm	0.0074 ppm	0.2192 ppm	0.4400 ppm	-0.0024 ppm	0.1976 ppm
Concentration RSD	52.5 %	0.9 %	17.8 %	0.3 %	1.0 %	26.9 %	1.1 %

	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	0.9315 ppm	103.2126 %	107.0195 %	84.9642 %	119.6370 %	131.5570 %	122.3934 %
Concentration per Run 1	0.9332 ppm	103.5260 %	107.0943 %	84.3348 %	120.7398 %	131.6425 %	121.7214 %
Concentration per Run 2	0.9320 ppm	102.8726 %	107.3450 %	85.1688 %	118.5578 %	131.7372 %	122.4246 %
Concentration per Run 3	0.9293 ppm	103.2393 %	106.6192 %	85.3889 %	119.6134 %	131.2913 %	123.0344 %
Concentration RSD	0.2 %	0.3 %	0.3 %	0.7 %	0.9 %	0.2 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473791-28D2 WG2010492
Analysis started at: 12/18/2024 8:36:37 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	0.0024 ppm	156.2995 ppm	0.2034 ppm	0.2587 ppm	1.4247 ppm	0.0202 ppm	503.9257 ppm
Concentration per Run 1	0.0026 ppm	156.4845 ppm	0.2028 ppm	0.2610 ppm	1.4244 ppm	0.0202 ppm	507.4787 ppm
Concentration per Run 2	0.0022 ppm	156.6169 ppm	0.2020 ppm	0.2585 ppm	1.4216 ppm	0.0202 ppm	502.8426 ppm
Concentration per Run 3	0.0025 ppm	155.7971 ppm	0.2055 ppm	0.2568 ppm	1.4282 ppm	0.0201 ppm	501.4558 ppm
Concentration RSD	9.2 %	0.3 %	0.9 %	0.8 %	0.2 %	0.2 %	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	0.0012 ppm	0.0662 ppm	0.2733 ppm	0.2397 ppm	211.5414 ppm	10.3082 ppm	0.1531 ppm
Concentration per Run 1	0.0012 ppm	0.0668 ppm	0.2750 ppm	0.2408 ppm	212.5577 ppm	10.2566 ppm	0.1524 ppm
Concentration per Run 2	0.0012 ppm	0.0663 ppm	0.2731 ppm	0.2380 ppm	210.7014 ppm	10.3752 ppm	0.1546 ppm
Concentration per Run 3	0.0012 ppm	0.0655 ppm	0.2716 ppm	0.2402 ppm	211.3652 ppm	10.2926 ppm	0.1521 ppm
Concentration RSD	3.4 %	1.0 %	0.6 %	0.6 %	0.4 %	0.6 %	0.9 %

	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	137.1390 ppm	10.1455 ppm	0.0315 ppm	4.3460 ppm	0.3175 ppm	0.1605 ppm	0.0032 ppm
Concentration per Run 1	137.9087 ppm	10.2168 ppm	0.0317 ppm	4.3089 ppm	0.3213 ppm	0.1605 ppm	0.0024 ppm
Concentration per Run 2	136.9950 ppm	10.1253 ppm	0.0319 ppm	4.3887 ppm	0.3151 ppm	0.1602 ppm	0.0005 ppm
Concentration per Run 3	136.5135 ppm	10.0944 ppm	0.0307 ppm	4.3404 ppm	0.3161 ppm	0.1607 ppm	0.0066 ppm
Concentration RSD	0.5 %	0.6 %	2.0 %	0.9 %	1.1 %	0.2 %	100.5 %

	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	0.0083 ppm	27.1612 [SIC 100]	0.0125 ppm	1.2683 ppm	3.0198 ppm	-0.0054 ppm	0.3249 ppm
Concentration per Run 1	0.0084 ppm	27.4649 ppm	0.0118 ppm	1.2673 ppm	3.0379 ppm	-0.0051 ppm	0.3253 ppm
Concentration per Run 2	0.0087 ppm	26.9748 ppm	0.0129 ppm	1.2669 ppm	3.0117 ppm	-0.0074 ppm	0.3250 ppm
Concentration per Run 3	0.0079 ppm	27.0440 ppm	0.0128 ppm	1.2706 ppm	3.0100 ppm	-0.0036 ppm	0.3245 ppm
Concentration RSD	4.4 %	1.0 %	4.9 %	0.2 %	0.5 %	35.2 %	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	0.9869 ppm	93.5391 %	101.7861 %	69.2315 %	117.6697 %	136.8546 %	119.7019 %
Concentration per Run 1	0.9939 ppm	92.9089 %	101.1286 %	68.8561 %	117.1071 %	136.4463 %	119.4120 %
Concentration per Run 2	0.9912 ppm	94.0121 %	102.1124 %	68.9546 %	118.1080 %	137.0297 %	119.2306 %
Concentration per Run 3	0.9757 ppm	93.6963 %	102.1173 %	69.8840 %	117.7940 %	137.0877 %	120.4631 %
Concentration RSD	1.0 %	0.6 %	0.6 %	0.8 %	0.4 %	0.3 %	0.6 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010492-3D2 WG2010492
Analysis started at: 12/18/2024 8:41:02 AM
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	0.0457 ppm	144.5397 ppm	0.3169 ppm	1.0443 ppm	3.2046 ppm	0.0644 ppm	497.4963 ppm
Concentration per Run 1	0.0460 ppm	144.6308 ppm	0.3176 ppm	1.0513 ppm	3.2075 ppm	0.0646 ppm	498.0967 ppm
Concentration per Run 2	0.0454 ppm	144.8891 ppm	0.3179 ppm	1.0410 ppm	3.2039 ppm	0.0643 ppm	497.4244 ppm
Concentration per Run 3	0.0457 ppm	144.0992 ppm	0.3153 ppm	1.0406 ppm	3.2025 ppm	0.0644 ppm	496.9678 ppm
Concentration RSD	0.7 %	0.3 %	0.4 %	0.6 %	0.1 %	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	0.0450 ppm	0.4800 ppm	0.5143 ppm	0.5421 ppm	236.8138 ppm	19.3663 ppm	0.1627 ppm
Concentration per Run 1	0.0450 ppm	0.4820 ppm	0.5165 ppm	0.5456 ppm	237.2014 ppm	19.3262 ppm	0.1633 ppm
Concentration per Run 2	0.0447 ppm	0.4782 ppm	0.5094 ppm	0.5423 ppm	236.4447 ppm	19.4795 ppm	0.1635 ppm
Concentration per Run 3	0.0453 ppm	0.4797 ppm	0.5172 ppm	0.5385 ppm	236.7954 ppm	19.2932 ppm	0.1612 ppm
Concentration RSD	0.6 %	0.4 %	0.8 %	0.7 %	0.2 %	0.5 %	0.8 %

	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	142.2723 ppm	10.8276 ppm	0.9470 ppm	13.7453 ppm	0.7608 ppm	0.6932 ppm	0.4036 ppm
Concentration per Run 1	142.8377 ppm	10.8540 ppm	0.9459 ppm	13.6761 ppm	0.7652 ppm	0.6894 ppm	0.4063 ppm
Concentration per Run 2	141.7380 ppm	10.8148 ppm	0.9414 ppm	13.8862 ppm	0.7554 ppm	0.6959 ppm	0.4005 ppm
Concentration per Run 3	142.2413 ppm	10.8142 ppm	0.9538 ppm	13.6736 ppm	0.7617 ppm	0.6942 ppm	0.4041 ppm
Concentration RSD	0.4 %	0.2 %	0.7 %	0.9 %	0.7 %	0.5 %	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	0.0849 ppm	43.6259 [SIC 100]	0.8166 ppm	2.0784 ppm	3.7551 ppm	0.1036 ppm	0.7746 ppm
Concentration per Run 1	0.0846 ppm	43.8846 ppm	0.8197 ppm	2.0819 ppm	3.7689 ppm	0.1028 ppm	0.7769 ppm
Concentration per Run 2	0.0851 ppm	43.3587 ppm	0.8078 ppm	2.0786 ppm	3.7382 ppm	0.1052 ppm	0.7724 ppm
Concentration per Run 3	0.0850 ppm	43.6345 ppm	0.8222 ppm	2.0748 ppm	3.7582 ppm	0.1027 ppm	0.7745 ppm
Concentration RSD	0.3 %	0.6 %	0.9 %	0.2 %	0.4 %	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	1.3765 ppm	93.4572 %	100.4278 %	66.5399 %	114.2197 %	131.5569 %	115.5693 %
Concentration per Run 1	1.3825 ppm	93.0532 %	100.5503 %	66.9754 %	114.0431 %	132.1196 %	116.0123 %
Concentration per Run 2	1.3628 ppm	93.5058 %	100.3947 %	66.5849 %	114.1021 %	131.2482 %	115.9353 %
Concentration per Run 3	1.3843 ppm	93.8126 %	100.3385 %	66.0595 %	114.5139 %	131.3029 %	114.7604 %
Concentration RSD	0.9 %	0.4 %	0.1 %	0.7 %	0.2 %	0.4 %	0.6 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010492-4D2 WG2010492
Analysis started at: 12/18/2024 8:45:28 AM
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	0.0020 ppm	129.8162 ppm	0.2914 ppm	0.2501 ppm	1.2711 ppm	0.0164 ppm	427.7692 ppm
Concentration per Run 1	0.0020 ppm	129.3499 ppm	0.2927 ppm	0.2515 ppm	1.2646 ppm	0.0164 ppm	427.6038 ppm
Concentration per Run 2	0.0020 ppm	130.2922 ppm	0.2893 ppm	0.2508 ppm	1.2730 ppm	0.0163 ppm	427.6061 ppm
Concentration per Run 3	0.0019 ppm	129.8066 ppm	0.2923 ppm	0.2480 ppm	1.2757 ppm	0.0164 ppm	428.0976 ppm
Concentration RSD	3.0 %	0.4 %	0.6 %	0.7 %	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	0.0012 ppm	0.0564 ppm	0.3645 ppm	0.2219 ppm	226.9145 ppm	10.2655 ppm	0.1519 ppm
Concentration per Run 1	0.0013 ppm	0.0565 ppm	0.3635 ppm	0.2236 ppm	227.4090 ppm	10.2070 ppm	0.1512 ppm
Concentration per Run 2	0.0011 ppm	0.0566 ppm	0.3658 ppm	0.2220 ppm	226.6837 ppm	10.3459 ppm	0.1540 ppm
Concentration per Run 3	0.0014 ppm	0.0561 ppm	0.3644 ppm	0.2202 ppm	226.6508 ppm	10.2435 ppm	0.1505 ppm
Concentration RSD	13.4 %	0.4 %	0.3 %	0.8 %	0.2 %	0.7 %	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	121.6280 ppm	8.4325 ppm	0.0560 ppm	4.0641 ppm	0.4902 ppm	0.2765 ppm	0.0077 ppm
Concentration per Run 1	121.8659 ppm	8.4172 ppm	0.0561 ppm	4.0363 ppm	0.4911 ppm	0.2762 ppm	0.0056 ppm
Concentration per Run 2	121.7615 ppm	8.4439 ppm	0.0555 ppm	4.1048 ppm	0.4893 ppm	0.2748 ppm	0.0080 ppm
Concentration per Run 3	121.2567 ppm	8.4364 ppm	0.0564 ppm	4.0513 ppm	0.4902 ppm	0.2785 ppm	0.0095 ppm
Concentration RSD	0.3 %	0.2 %	0.8 %	0.9 %	0.2 %	0.7 %	25.6 %

	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	0.0073 ppm	**24.1119 [SIC 100]**	0.0099 ppm	1.2304 ppm	2.6605 ppm	-0.0013 ppm	0.3758 ppm
Concentration per Run 1	0.0070 ppm	24.2877 ppm	0.0093 ppm	1.2241 ppm	2.6731 ppm	-0.0015 ppm	0.3761 ppm
Concentration per Run 2	0.0066 ppm	24.0162 ppm	0.0108 ppm	1.2335 ppm	2.6554 ppm	-0.0023 ppm	0.3778 ppm
Concentration per Run 3	0.0082 ppm	24.0319 ppm	0.0096 ppm	1.2336 ppm	2.6530 ppm	-0.0001 ppm	0.3734 ppm
Concentration RSD	11.5 %	0.6 %	7.9 %	0.4 %	0.4 %	84.3 %	0.6 %

	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	0.8991 ppm	94.0348 %	100.4828 %	70.6346 %	113.6807 %	128.6115 %	114.2548 %
Concentration per Run 1	0.9003 ppm	93.6905 %	100.3879 %	70.3711 %	113.0840 %	128.4899 %	113.9706 %
Concentration per Run 2	0.8995 ppm	94.0536 %	100.7040 %	70.7412 %	114.0013 %	129.1989 %	114.2370 %
Concentration per Run 3	0.8976 ppm	94.3603 %	100.3564 %	70.7917 %	113.9568 %	128.1458 %	114.5568 %
Concentration RSD	0.2 %	0.4 %	0.2 %	0.3 %	0.5 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010492-5D2 WG2010492
Analysis started at: 12/18/2024 8:49:55 AM
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	0.0500 ppm	153.4501 ppm	0.2858 ppm	1.1312 ppm	3.2359 ppm	0.0669 ppm	498.2037 ppm
Concentration per Run 1	0.0489 ppm	152.2934 ppm	0.2856 ppm	1.1062 ppm	3.2134 ppm	0.0663 ppm	494.9333 ppm
Concentration per Run 2	0.0469 ppm	154.5830 ppm	0.2896 ppm	1.0671 ppm	3.2510 ppm	0.0671 ppm	499.5767 ppm
Concentration per Run 3	0.0542 ppm	153.4738 ppm	0.2821 ppm	1.2202 ppm	3.2435 ppm	0.0671 ppm	500.1011 ppm
Concentration RSD	7.6 %	0.7 %	1.3 %	7.0 %	0.6 %	0.7 %	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	0.0456 ppm	0.4932 ppm	0.4497 ppm	0.4832 ppm	206.4332 ppm	20.5741 ppm	0.1476 ppm
Concentration per Run 1	0.0449 ppm	0.4859 ppm	0.4406 ppm	0.4754 ppm	204.9177 ppm	20.3254 ppm	0.1495 ppm
Concentration per Run 2	0.0432 ppm	0.4651 ppm	0.4233 ppm	0.4537 ppm	206.9769 ppm	20.7732 ppm	0.1484 ppm
Concentration per Run 3	0.0488 ppm	0.5285 ppm	0.4853 ppm	0.5203 ppm	207.4049 ppm	20.6236 ppm	0.1449 ppm
Concentration RSD	6.3 %	6.5 %	7.1 %	7.0 %	0.6 %	1.1 %	1.6 %

	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	144.2344 ppm	10.2836 ppm	0.9611 ppm	14.5988 ppm	0.7415 ppm	0.7051 ppm	0.4470 ppm
Concentration per Run 1	141.6802 ppm	10.2065 ppm	0.9373 ppm	14.4571 ppm	0.7291 ppm	0.7096 ppm	0.4381 ppm
Concentration per Run 2	136.1145 ppm	10.3167 ppm	0.9023 ppm	14.7791 ppm	0.6977 ppm	0.7067 ppm	0.4191 ppm
Concentration per Run 3	154.9084 ppm	10.3274 ppm	1.0436 ppm	14.5603 ppm	0.7975 ppm	0.6988 ppm	0.4838 ppm
Concentration RSD	6.7 %	0.7 %	7.7 %	1.1 %	6.9 %	0.8 %	7.4 %

	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	0.0897 ppm	27.9224 [SIC 100]	0.8704 ppm	2.1720 ppm	3.9261 ppm	0.1129 ppm	0.7946 ppm
Concentration per Run 1	0.0909 ppm	27.3561 ppm	0.8516 ppm	2.1584 ppm	3.8582 ppm	0.1113 ppm	0.7807 ppm
Concentration per Run 2	0.0890 ppm	26.2428 ppm	0.8186 ppm	2.1830 ppm	3.6971 ppm	0.1161 ppm	0.7501 ppm
Concentration per Run 3	0.0892 ppm	30.1683 ppm	0.9409 ppm	2.1746 ppm	4.2229 ppm	0.1112 ppm	0.8531 ppm
Concentration RSD	1.1 %	7.2 %	7.3 %	0.6 %	6.9 %	2.5 %	6.7 %

	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	1.4150 ppm	92.8046 %	101.8086 %	67.0325 %	115.7227 %	135.6826 %	117.9223 %
Concentration per Run 1	1.3890 ppm	93.8384 %	102.4514 %	66.2713 %	117.5325 %	135.9223 %	116.8461 %
Concentration per Run 2	1.3329 ppm	97.8468 %	101.6180 %	67.0102 %	120.7658 %	135.8253 %	118.3039 %
Concentration per Run 3	1.5231 ppm	86.7286 %	101.3564 %	67.8161 %	108.8698 %	135.3004 %	118.6169 %
Concentration RSD	6.9 %	6.1 %	0.6 %	1.2 %	5.3 %	0.2 %	0.8 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010492-6D10 WG2010492
Analysis started at: 12/18/2024 8:54:22 AM
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	0.0004 ppm	32.8792 ppm	0.0561 ppm	0.0592 ppm	0.3012 ppm	0.0044 ppm	115.9493 ppm
Concentration per Run 1	0.0003 ppm	32.7659 ppm	0.0567 ppm	0.0588 ppm	0.3004 ppm	0.0044 ppm	115.9848 ppm
Concentration per Run 2	0.0004 ppm	32.8973 ppm	0.0547 ppm	0.0593 ppm	0.3019 ppm	0.0044 ppm	115.8028 ppm
Concentration per Run 3	0.0004 ppm	32.9746 ppm	0.0569 ppm	0.0594 ppm	0.3014 ppm	0.0044 ppm	116.0602 ppm
Concentration RSD	20.1 %	0.3 %	2.2 %	0.6 %	0.3 %	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	0.0002 ppm	0.0157 ppm	0.0609 ppm	0.0505 ppm	50.4754 ppm	2.0929 ppm	0.0352 ppm
Concentration per Run 1	0.0002 ppm	0.0161 ppm	0.0610 ppm	0.0507 ppm	50.4826 ppm	2.0975 ppm	0.0353 ppm
Concentration per Run 2	0.0002 ppm	0.0157 ppm	0.0612 ppm	0.0506 ppm	50.5658 ppm	2.0749 ppm	0.0355 ppm
Concentration per Run 3	0.0001 ppm	0.0152 ppm	0.0605 ppm	0.0503 ppm	50.3779 ppm	2.1061 ppm	0.0349 ppm
Concentration RSD	32.7 %	3.1 %	0.6 %	0.4 %	0.2 %	0.8 %	1.0 %

	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	31.3674 ppm	2.3103 ppm	0.0152 ppm	0.8950 ppm	0.0745 ppm	0.0339 ppm	0.0065 ppm
Concentration per Run 1	31.3922 ppm	2.3047 ppm	0.0153 ppm	0.8896 ppm	0.0741 ppm	0.0356 ppm	0.0061 ppm
Concentration per Run 2	31.4826 ppm	2.3140 ppm	0.0151 ppm	0.8992 ppm	0.0746 ppm	0.0331 ppm	0.0062 ppm
Concentration per Run 3	31.2274 ppm	2.3123 ppm	0.0151 ppm	0.8963 ppm	0.0747 ppm	0.0332 ppm	0.0074 ppm
Concentration RSD	0.4 %	0.2 %	0.8 %	0.5 %	0.4 %	4.3 %	10.8 %

	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	0.0033 ppm	5.9128 ppm	0.0034 ppm	0.2713 ppm	0.6599 ppm	-0.0010 ppm	0.0708 ppm
Concentration per Run 1	0.0047 ppm	5.9518 ppm	0.0040 ppm	0.2706 ppm	0.6603 ppm	-0.0015 ppm	0.0706 ppm
Concentration per Run 2	0.0036 ppm	5.9054 ppm	0.0022 ppm	0.2730 ppm	0.6629 ppm	-0.0009 ppm	0.0713 ppm
Concentration per Run 3	0.0015 ppm	5.8812 ppm	0.0040 ppm	0.2704 ppm	0.6566 ppm	-0.0007 ppm	0.0705 ppm
Concentration RSD	50.2 %	0.6 %	30.6 %	0.5 %	0.5 %	37.1 %	0.6 %

	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	0.2273 ppm	96.3532 %	99.3195 %	83.7447 %	97.9705 %	105.5969 %	99.4346 %
Concentration per Run 1	0.2292 ppm	95.6478 %	99.2964 %	83.2820 %	96.5847 %	105.3590 %	99.2722 %
Concentration per Run 2	0.2265 ppm	96.5165 %	99.7592 %	84.1344 %	98.6394 %	106.0990 %	99.4524 %
Concentration per Run 3	0.2263 ppm	96.8954 %	98.9027 %	83.8177 %	98.6873 %	105.3328 %	99.5793 %
Concentration RSD	0.7 %	0.7 %	0.4 %	0.5 %	1.2 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCV
Analysis started at: 12/18/2024 8:58:45 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	0.4777 ppm	0.4784 ppm	0.4783 ppm	0.4854 ppm	0.4852 ppm	0.5052 ppm	0.4984 ppm
Concentration per Run 1	0.4805 ppm	0.4788 ppm	0.4789 ppm	0.4863 ppm	0.4839 ppm	0.5059 ppm	0.4972 ppm
Concentration per Run 2	0.4764 ppm	0.4818 ppm	0.4782 ppm	0.4862 ppm	0.4833 ppm	0.5054 ppm	0.4995 ppm
Concentration per Run 3	0.4761 ppm	0.4747 ppm	0.4779 ppm	0.4838 ppm	0.4882 ppm	0.5044 ppm	0.4985 ppm
Recovery Percentage 1	95.534 %	95.690 %	95.668 %	97.085 %	97.030 %	101.048 %	99.684 %
Concentration RSD	0.5 %	0.7 %	0.1 %	0.3 %	0.6 %	0.2 %	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	0.4980 ppm	0.5119 ppm	0.4896 ppm	0.4802 ppm	0.5166 ppm	5.1530 ppm	0.4927 ppm
Concentration per Run 1	0.5007 ppm	0.5152 ppm	0.4927 ppm	0.4812 ppm	0.5186 ppm	5.1461 ppm	0.4920 ppm
Concentration per Run 2	0.4984 ppm	0.5114 ppm	0.4879 ppm	0.4823 ppm	0.5164 ppm	5.1406 ppm	0.4910 ppm
Concentration per Run 3	0.4951 ppm	0.5090 ppm	0.4881 ppm	0.4770 ppm	0.5148 ppm	5.1723 ppm	0.4950 ppm
Recovery Percentage 1	99.609 %	102.371 %	97.917 %	96.031 %	103.316 %	103.060 %	98.539 %
Concentration RSD	0.6 %	0.6 %	0.6 %	0.6 %	0.4 %	0.3 %	0.4 %

	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	0.4939 ppm	0.4844 ppm	0.5064 ppm	9.9827 ppm	0.5070 ppm	0.4846 ppm	0.4991 ppm
Concentration per Run 1	0.4960 ppm	0.4856 ppm	0.5060 ppm	9.8929 ppm	0.5111 ppm	0.4863 ppm	0.5012 ppm
Concentration per Run 2	0.4929 ppm	0.4849 ppm	0.5050 ppm	10.0391 ppm	0.5053 ppm	0.4847 ppm	0.4980 ppm
Concentration per Run 3	0.4929 ppm	0.4828 ppm	0.5083 ppm	10.0161 ppm	0.5044 ppm	0.4827 ppm	0.4980 ppm
Recovery Percentage 1	98.786 %	96.889 %	101.287 %	99.827 %	101.393 %	96.912 %	99.812 %
Concentration RSD	0.4 %	0.3 %	0.3 %	0.8 %	0.7 %	0.4 %	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	0.4793 ppm	5.4511 ppm	0.5176 ppm	0.5156 ppm	0.4915 ppm	0.4834 ppm	0.4909 ppm
Concentration per Run 1	0.4795 ppm	5.4696 ppm	0.5215 ppm	0.5152 ppm	0.4934 ppm	0.4875 ppm	0.4933 ppm
Concentration per Run 2	0.4786 ppm	5.4505 ppm	0.5158 ppm	0.5164 ppm	0.4911 ppm	0.4820 ppm	0.4913 ppm
Concentration per Run 3	0.4798 ppm	5.4332 ppm	0.5155 ppm	0.5153 ppm	0.4900 ppm	0.4806 ppm	0.4881 ppm
Recovery Percentage 1	95.867 %	103.831 %	103.515 %	103.126 %	98.304 %	96.673 %	98.180 %
Concentration RSD	0.1 %	0.3 %	0.7 %	0.1 %	0.4 %	0.7 %	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	0.5024 ppm	100.3273 %	99.9413 %	93.9433 %	95.6182 %	98.6638 %	96.4952 %
Concentration per Run 1	0.5065 ppm	99.7522 %	99.4806 %	93.8242 %	95.2533 %	98.4259 %	97.1484 %
Concentration per Run 2	0.5011 ppm	100.4095 %	99.7145 %	93.8866 %	96.0818 %	98.5994 %	96.0705 %
Concentration per Run 3	0.4996 ppm	100.8201 %	100.6289 %	94.1193 %	95.5194 %	98.9662 %	96.2667 %
Recovery Percentage 1	100.481 %						
Concentration RSD	0.7 %	0.5 %	0.6 %	0.2 %	0.4 %	0.3 %	0.6 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCB
Analysis started at: 12/18/2024 9:03:09 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	0.0024 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	0.0040 ppm	-0.0007 ppm	0.0001 ppm	0.0001 ppm	0.0011 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0018 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0012 ppm
Concentration per Run 3	-0.0001 ppm	-0.0012 ppm	0.0015 ppm	-0.0010 ppm	0.0000 ppm	0.0000 ppm	-0.0006 ppm
Recovery Percentage 1	-0.038 %	-0.258 %	48.985 %	-1.704 %	0.364 %	0.657 %	-0.230 %
Concentration RSD	3,446.7 %	324.3 %	56.2 %	116.6 %	81.7 %	68.8 %	524.0 %

	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	0.0001 ppm	-0.0002 ppm	-0.0003 ppm	0.0025 ppm	0.0017 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	0.0018 ppm	-0.0044 ppm	0.0000 ppm
Concentration per Run 2	-0.0001 ppm	-0.0001 ppm	-0.0004 ppm	-0.0004 ppm	0.0031 ppm	0.0038 ppm	0.0004 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	-0.0003 ppm	-0.0004 ppm	0.0026 ppm	0.0057 ppm	-0.0002 ppm
Recovery Percentage 1	0.165 %	1.087 %	-2.421 %	-2.948 %	5.046 %	0.068 %	0.499 %
Concentration RSD	1,140.3 %	169.5 %	82.4 %	43.6 %	26.9 %	315.1 %	641.0 %

	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	0.0007 ppm	0.0000 ppm	0.0047 ppm	0.0044 ppm	0.0005 ppm	-0.0003 ppm	0.0007 ppm
Concentration per Run 1	0.0007 ppm	0.0000 ppm	0.0048 ppm	0.0036 ppm	0.0010 ppm	0.0000 ppm	0.0018 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0047 ppm	0.0063 ppm	-0.0001 ppm	-0.0006 ppm	0.0007 ppm
Concentration per Run 3	0.0014 ppm	0.0001 ppm	0.0046 ppm	0.0035 ppm	0.0006 ppm	-0.0001 ppm	-0.0005 ppm
Recovery Percentage 1	0.681 %	0.139 %	9.439 %	0.222 %	1.929 %	-2.639 %	1.373 %
Concentration RSD	103.2 %	359.4 %	1.9 %	35.5 %	107.5 %	124.8 %	164.2 %

	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	0.0087 ppm	0.0005 ppm	0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 1	-0.0005 ppm	0.0121 ppm	0.0009 ppm	0.0001 ppm	0.0002 ppm	0.0010 ppm	0.0001 ppm
Concentration per Run 2	0.0007 ppm	0.0061 ppm	0.0002 ppm	0.0001 ppm	0.0003 ppm	-0.0002 ppm	-0.0003 ppm
Concentration per Run 3	0.0020 ppm	0.0078 ppm	0.0005 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0001 ppm
Recovery Percentage 1	7.463 %	1.731 %	1.055 %	0.766 %	1.858 %	1.133 %	-0.309 %
Concentration RSD	171.6 %	35.8 %	69.0 %	22.2 %	70.8 %	285.7 %	737.6 %

	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	0.0001 ppm	99.8968 %	99.9619 %	94.9436 %	97.6156 %	99.3794 %	98.0130 %
Concentration per Run 1	0.0002 ppm	98.7739 %	100.5677 %	94.1432 %	97.0569 %	100.3019 %	97.7252 %
Concentration per Run 2	0.0000 ppm	100.1419 %	99.4573 %	95.4125 %	97.6816 %	98.6077 %	98.1548 %
Concentration per Run 3	0.0003 ppm	100.7745 %	99.8608 %	95.2751 %	98.1085 %	99.2286 %	98.1590 %
Recovery Percentage 1	2.964 %						
Concentration RSD	79.6 %	1.0 %	0.6 %	0.7 %	0.5 %	0.9 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473791-33D2 WG2010492
Analysis started at: 12/18/2024 9:09:39 AM
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	0.0032 ppm	110.4539 ppm	0.0905 ppm	0.1084 ppm	0.9590 ppm	0.0157 ppm	423.5350 ppm
Concentration per Run 1	0.0028 ppm	110.3851 ppm	0.0900 ppm	0.1082 ppm	0.9575 ppm	0.0156 ppm	422.6287 ppm
Concentration per Run 2	0.0038 ppm	111.1080 ppm	0.0907 ppm	0.1090 ppm	0.9593 ppm	0.0157 ppm	425.6845 ppm
Concentration per Run 3	0.0032 ppm	109.8685 ppm	0.0909 ppm	0.1081 ppm	0.9602 ppm	0.0157 ppm	422.2917 ppm
Concentration RSD	15.6 %	0.6 %	0.5 %	0.4 %	0.1 %	0.4 %	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	0.0026 ppm	0.1046 ppm	0.9356 ppm	0.4276 ppm	362.1823 ppm	8.0141 ppm	0.1458 ppm
Concentration per Run 1	0.0022 ppm	0.1037 ppm	0.9361 ppm	0.4261 ppm	360.7528 ppm	8.0151 ppm	0.1453 ppm
Concentration per Run 2	0.0032 ppm	0.1053 ppm	0.9401 ppm	0.4302 ppm	362.9286 ppm	7.9712 ppm	0.1490 ppm
Concentration per Run 3	0.0024 ppm	0.1049 ppm	0.9306 ppm	0.4266 ppm	362.8654 ppm	8.0559 ppm	0.1431 ppm
Concentration RSD	20.2 %	0.8 %	0.5 %	0.5 %	0.3 %	0.5 %	2.0 %

	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	97.0056 ppm	15.5124 ppm	0.0414 ppm	2.6790 ppm	0.2151 ppm	0.1701 ppm	0.0054 ppm
Concentration per Run 1	96.6424 ppm	15.4677 ppm	0.0407 ppm	2.6831 ppm	0.2151 ppm	0.1697 ppm	0.0084 ppm
Concentration per Run 2	97.6642 ppm	15.5553 ppm	0.0413 ppm	2.6938 ppm	0.2153 ppm	0.1702 ppm	0.0046 ppm
Concentration per Run 3	96.7102 ppm	15.5144 ppm	0.0421 ppm	2.6600 ppm	0.2149 ppm	0.1704 ppm	0.0031 ppm
Concentration RSD	0.6 %	0.3 %	1.7 %	0.6 %	0.1 %	0.2 %	51.0 %

	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	-0.0006 ppm	28.7589 [SIC 100]	0.0178 ppm	0.9285 ppm	1.7238 ppm	-0.0154 ppm	0.2601 ppm
Concentration per Run 1	-0.0005 ppm	28.6568 ppm	0.0188 ppm	0.9254 ppm	1.7200 ppm	-0.0155 ppm	0.2610 ppm
Concentration per Run 2	0.0000 ppm	28.9938 ppm	0.0177 ppm	0.9320 ppm	1.7384 ppm	-0.0165 ppm	0.2599 ppm
Concentration per Run 3	-0.0014 ppm	28.6261 ppm	0.0169 ppm	0.9280 ppm	1.7130 ppm	-0.0141 ppm	0.2595 ppm
Concentration RSD	107.4 %	0.7 %	5.5 %	0.4 %	0.8 %	8.0 %	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	2.3285 ppm	93.9540 %	99.9189 %	70.0552 %	115.6354 %	131.4834 %	116.2512 %
Concentration per Run 1	2.3381 ppm	94.3807 %	100.3335 %	70.0912 %	116.0087 %	131.8272 %	116.3007 %
Concentration per Run 2	2.3273 ppm	93.2940 %	99.9538 %	69.9122 %	115.0125 %	132.2635 %	116.2576 %
Concentration per Run 3	2.3200 ppm	94.1874 %	99.4695 %	70.1623 %	115.8849 %	130.3596 %	116.1954 %
Concentration RSD	0.4 %	0.6 %	0.4 %	0.2 %	0.5 %	0.8 %	0.0 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473791-34D2 WG2010492
Analysis started at: 12/18/2024 9:14:09 AM
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	0.0029 ppm	36.4391 ppm	0.1164 ppm	0.0182 ppm	0.4636 ppm	0.0039 ppm	759.7349 ppm
Concentration per Run 1	0.0022 ppm	36.4308 ppm	0.1172 ppm	0.0185 ppm	0.4644 ppm	0.0039 ppm	760.0326 ppm
Concentration per Run 2	0.0028 ppm	36.4337 ppm	0.1167 ppm	0.0182 ppm	0.4628 ppm	0.0039 ppm	756.8383 ppm
Concentration per Run 3	0.0036 ppm	36.4529 ppm	0.1152 ppm	0.0180 ppm	0.4636 ppm	0.0039 ppm	762.3340 ppm
Concentration RSD	23.6 %	0.0 %	0.9 %	1.6 %	0.2 %	0.3 %	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	-0.0018 ppm	0.0580 ppm	0.0977 ppm	0.2510 ppm	310.3613 ppm	4.6601 ppm	0.0803 ppm
Concentration per Run 1	-0.0020 ppm	0.0576 ppm	0.0972 ppm	0.2526 ppm	310.4113 ppm	4.6629 ppm	0.0837 ppm
Concentration per Run 2	-0.0018 ppm	0.0584 ppm	0.0979 ppm	0.2509 ppm	308.9965 ppm	4.6651 ppm	0.0810 ppm
Concentration per Run 3	-0.0014 ppm	0.0581 ppm	0.0980 ppm	0.2495 ppm	311.6761 ppm	4.6523 ppm	0.0763 ppm
Concentration RSD	17.4 %	0.7 %	0.4 %	0.6 %	0.4 %	0.1 %	4.7 %

	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	49.1846 ppm	6.0667 ppm	0.0172 ppm	0.7026 ppm	0.1205 ppm	0.1064 ppm	0.0026 ppm
Concentration per Run 1	48.9595 ppm	6.0632 ppm	0.0167 ppm	0.7011 ppm	0.1193 ppm	0.1072 ppm	0.0038 ppm
Concentration per Run 2	49.3654 ppm	6.0556 ppm	0.0174 ppm	0.7059 ppm	0.1215 ppm	0.1067 ppm	-0.0012 ppm
Concentration per Run 3	49.2287 ppm	6.0812 ppm	0.0175 ppm	0.7009 ppm	0.1207 ppm	0.1052 ppm	0.0052 ppm
Concentration RSD	0.4 %	0.2 %	2.6 %	0.4 %	0.9 %	1.0 %	128.2 %

	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	-0.0031 ppm	8.7300 ppm	0.0088 ppm	0.6842 ppm	0.4184 ppm	-0.0053 ppm	0.1119 ppm
Concentration per Run 1	-0.0029 ppm	8.7732 ppm	0.0083 ppm	0.6861 ppm	0.4175 ppm	-0.0044 ppm	0.1127 ppm
Concentration per Run 2	-0.0021 ppm	8.6536 ppm	0.0088 ppm	0.6824 ppm	0.4173 ppm	-0.0049 ppm	0.1121 ppm
Concentration per Run 3	-0.0042 ppm	8.7634 ppm	0.0094 ppm	0.6842 ppm	0.4205 ppm	-0.0065 ppm	0.1109 ppm
Concentration RSD	34.8 %	0.8 %	5.9 %	0.3 %	0.4 %	21.0 %	0.8 %

	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	0.5869 ppm	89.8057 %	97.3386 %	70.1430 %	103.3984 %	118.9873 %	104.9792 %
Concentration per Run 1	0.5787 ppm	89.9373 %	97.0873 %	70.2870 %	103.9485 %	118.7203 %	105.3761 %
Concentration per Run 2	0.5908 ppm	89.6423 %	97.6554 %	70.1049 %	103.6989 %	119.5042 %	104.9397 %
Concentration per Run 3	0.5911 ppm	89.8376 %	97.2730 %	70.0371 %	102.5478 %	118.7372 %	104.6218 %
Concentration RSD	1.2 %	0.2 %	0.3 %	0.2 %	0.7 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473791-37D2 WG2010492
Analysis started at: 12/18/2024 9:18:33 AM
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	0.0018 ppm	241.0651 ppm	0.0375 ppm	0.5177 ppm	2.2142 ppm	0.0353 ppm	998.0572 ppm
Concentration per Run 1	0.0017 ppm	241.8379 ppm	0.0375 ppm	0.5208 ppm	2.2185 ppm	0.0354 ppm	1,008.0185 ppm
Concentration per Run 2	0.0019 ppm	241.0757 ppm	0.0377 ppm	0.5209 ppm	2.1993 ppm	0.0352 ppm	996.9012 ppm
Concentration per Run 3	0.0017 ppm	240.2817 ppm	0.0374 ppm	0.5114 ppm	2.2250 ppm	0.0353 ppm	989.2518 ppm
Concentration RSD	5.6 %	0.3 %	0.4 %	1.0 %	0.6 %	0.3 %	0.9 %

	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	-0.0049 ppm	0.0158 ppm	0.1381 ppm	0.0622 ppm	172.9466 ppm	13.9434 ppm	0.2146 ppm
Concentration per Run 1	-0.0049 ppm	0.0157 ppm	0.1390 ppm	0.0623 ppm	173.6305 ppm	13.9447 ppm	0.2103 ppm
Concentration per Run 2	-0.0048 ppm	0.0156 ppm	0.1380 ppm	0.0627 ppm	171.9183 ppm	13.8419 ppm	0.2147 ppm
Concentration per Run 3	-0.0049 ppm	0.0162 ppm	0.1374 ppm	0.0616 ppm	173.2909 ppm	14.0437 ppm	0.2189 ppm
Concentration RSD	1.1 %	2.2 %	0.6 %	0.9 %	0.5 %	0.7 %	2.0 %

	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	246.5031 ppm	12.9229 ppm	0.0058 ppm	8.9698 ppm	0.0472 ppm	0.0556 ppm	-0.0034 ppm
Concentration per Run 1	247.0997 ppm	12.9840 ppm	0.0056 ppm	8.9745 ppm	0.0471 ppm	0.0575 ppm	-0.0044 ppm
Concentration per Run 2	246.3113 ppm	12.8760 ppm	0.0059 ppm	8.9645 ppm	0.0471 ppm	0.0542 ppm	-0.0016 ppm
Concentration per Run 3	246.0983 ppm	12.9087 ppm	0.0060 ppm	8.9705 ppm	0.0473 ppm	0.0550 ppm	-0.0041 ppm
Concentration RSD	0.2 %	0.4 %	3.5 %	0.1 %	0.2 %	3.1 %	45.7 %

	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	0.0078 ppm	8.9194 ppm	0.0037 ppm	3.5721 ppm	2.9646 ppm	-0.0108 ppm	0.0771 ppm
Concentration per Run 1	0.0074 ppm	8.9432 ppm	0.0037 ppm	3.5788 ppm	2.9741 ppm	-0.0105 ppm	0.0770 ppm
Concentration per Run 2	0.0081 ppm	8.9601 ppm	0.0053 ppm	3.5525 ppm	2.9637 ppm	-0.0112 ppm	0.0767 ppm
Concentration per Run 3	0.0080 ppm	8.8548 ppm	0.0021 ppm	3.5849 ppm	2.9559 ppm	-0.0108 ppm	0.0776 ppm
Concentration RSD	4.8 %	0.6 %	42.6 %	0.5 %	0.3 %	3.4 %	0.6 %

	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	0.2260 ppm	93.2939 %	103.2694 %	68.7401 %	142.4888 %	**168.8301 %**	**145.6487 %**
Concentration per Run 1	0.2269 ppm	93.0586 %	102.4722 %	68.8418 %	142.8674 %	**167.9104 %**	**146.2712 %**
Concentration per Run 2	0.2242 ppm	93.1309 %	103.7545 %	68.6800 %	141.9962 %	**169.4252 %**	**145.7042 %**
Concentration per Run 3	0.2268 ppm	93.6922 %	103.5815 %	68.6986 %	142.6030 %	**169.1547 %**	144.9708 %
Concentration RSD	0.7 %	0.4 %	0.7 %	0.1 %	0.3 %	**0.5 %**	**0.4 %**

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473791-38D2 WG2010492
Analysis started at: 12/18/2024 9:22:58 AM
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	0.0036 ppm	69.0471 ppm	0.1227 ppm	0.0490 ppm	0.9618 ppm	0.0085 ppm	325.3984 ppm
Concentration per Run 1	0.0040 ppm	69.3498 ppm	0.1239 ppm	0.0495 ppm	0.9572 ppm	0.0085 ppm	327.6249 ppm
Concentration per Run 2	0.0034 ppm	69.0611 ppm	0.1208 ppm	0.0471 ppm	0.9670 ppm	0.0085 ppm	323.9754 ppm
Concentration per Run 3	0.0034 ppm	68.7304 ppm	0.1234 ppm	0.0504 ppm	0.9614 ppm	0.0085 ppm	324.5948 ppm
Concentration RSD	10.2 %	0.4 %	1.4 %	3.4 %	0.5 %	0.2 %	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	0.0018 ppm	0.0738 ppm	0.3410 ppm	0.2078 ppm	381.7056 ppm	9.3421 ppm	0.1059 ppm
Concentration per Run 1	0.0023 ppm	0.0734 ppm	0.3417 ppm	0.2085 ppm	383.1859 ppm	9.3131 ppm	0.1108 ppm
Concentration per Run 2	0.0017 ppm	0.0744 ppm	0.3427 ppm	0.2069 ppm	379.9873 ppm	9.3959 ppm	0.1013 ppm
Concentration per Run 3	0.0014 ppm	0.0734 ppm	0.3387 ppm	0.2081 ppm	381.9436 ppm	9.3172 ppm	0.1057 ppm
Concentration RSD	25.6 %	0.8 %	0.6 %	0.4 %	0.4 %	0.5 %	4.5 %

	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	52.8956 ppm	8.1408 ppm	0.0154 ppm	3.6500 ppm	0.1681 ppm	0.1650 ppm	0.0064 ppm
Concentration per Run 1	53.0240 ppm	8.1875 ppm	0.0154 ppm	3.6486 ppm	0.1700 ppm	0.1662 ppm	0.0071 ppm
Concentration per Run 2	52.9418 ppm	8.1133 ppm	0.0152 ppm	3.6660 ppm	0.1684 ppm	0.1632 ppm	0.0067 ppm
Concentration per Run 3	52.7210 ppm	8.1217 ppm	0.0158 ppm	3.6355 ppm	0.1660 ppm	0.1656 ppm	0.0055 ppm
Concentration RSD	0.3 %	0.5 %	2.1 %	0.4 %	1.2 %	1.0 %	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	0.0002 ppm	14.0896 ppm	0.0076 ppm	0.7277 ppm	0.7819 ppm	-0.0060 ppm	0.1807 ppm
Concentration per Run 1	0.0014 ppm	14.2396 ppm	0.0080 ppm	0.7288 ppm	0.7835 ppm	-0.0052 ppm	0.1805 ppm
Concentration per Run 2	-0.0015 ppm	14.0381 ppm	0.0080 ppm	0.7272 ppm	0.7809 ppm	-0.0060 ppm	0.1806 ppm
Concentration per Run 3	0.0006 ppm	13.9912 ppm	0.0067 ppm	0.7271 ppm	0.7815 ppm	-0.0068 ppm	0.1810 ppm
Concentration RSD	886.0 %	0.9 %	9.7 %	0.1 %	0.2 %	13.1 %	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	0.6759 ppm	94.9188 %	99.8684 %	73.2572 %	111.4801 %	125.3661 %	112.4194 %
Concentration per Run 1	0.6788 ppm	94.5465 %	99.6080 %	73.2513 %	111.6188 %	125.2619 %	112.6244 %
Concentration per Run 2	0.6792 ppm	94.8650 %	100.0557 %	73.3058 %	111.2334 %	125.4292 %	112.5863 %
Concentration per Run 3	0.6698 ppm	95.3449 %	99.9415 %	73.2144 %	111.5881 %	125.4071 %	112.0474 %
Concentration RSD	0.8 %	0.4 %	0.2 %	0.1 %	0.2 %	0.1 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473791-39D2 WG2010492
Analysis started at: 12/18/2024 9:27:23 AM
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	0.0022 ppm	123.6567 ppm	0.0216 ppm	0.0186 ppm	1.8614 ppm	0.0096 ppm	43.6023 ppm
Concentration per Run 1	0.0020 ppm	124.2427 ppm	0.0211 ppm	0.0195 ppm	1.8665 ppm	0.0095 ppm	43.6219 ppm
Concentration per Run 2	0.0024 ppm	123.4042 ppm	0.0208 ppm	0.0181 ppm	1.8664 ppm	0.0096 ppm	43.2310 ppm
Concentration per Run 3	0.0022 ppm	123.3232 ppm	0.0228 ppm	0.0182 ppm	1.8514 ppm	0.0096 ppm	43.9539 ppm
Concentration RSD	9.4 %	0.4 %	5.0 %	4.3 %	0.5 %	0.2 %	0.8 %

	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	0.0015 ppm	0.1192 ppm	0.2203 ppm	0.2578 ppm	269.9756 ppm	15.1067 ppm	0.1490 ppm
Concentration per Run 1	0.0015 ppm	0.1191 ppm	0.2205 ppm	0.2581 ppm	270.4748 ppm	15.2365 ppm	0.1498 ppm
Concentration per Run 2	0.0017 ppm	0.1192 ppm	0.2207 ppm	0.2592 ppm	267.3410 ppm	15.1900 ppm	0.1501 ppm
Concentration per Run 3	0.0014 ppm	0.1193 ppm	0.2196 ppm	0.2562 ppm	272.1111 ppm	14.8935 ppm	0.1471 ppm
Concentration RSD	9.8 %	0.1 %	0.3 %	0.6 %	0.9 %	1.2 %	1.1 %

	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	47.4814 ppm	4.5837 ppm	0.0025 ppm	14.3429 ppm	0.2594 ppm	0.1318 ppm	0.0019 ppm
Concentration per Run 1	47.4608 ppm	4.5849 ppm	0.0022 ppm	14.4672 ppm	0.2575 ppm	0.1322 ppm	0.0026 ppm
Concentration per Run 2	47.6534 ppm	4.5535 ppm	0.0028 ppm	14.4418 ppm	0.2610 ppm	0.1331 ppm	0.0003 ppm
Concentration per Run 3	47.3300 ppm	4.6127 ppm	0.0026 ppm	14.1196 ppm	0.2597 ppm	0.1302 ppm	0.0028 ppm
Concentration RSD	0.3 %	0.6 %	11.5 %	1.4 %	0.7 %	1.1 %	73.5 %

	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	-0.0010 ppm	13.4576 ppm	0.0081 ppm	0.4079 ppm	1.5073 ppm	-0.0005 ppm	0.1982 ppm
Concentration per Run 1	0.0002 ppm	13.5252 ppm	0.0078 ppm	0.4095 ppm	1.5221 ppm	-0.0013 ppm	0.1985 ppm
Concentration per Run 2	-0.0017 ppm	13.5303 ppm	0.0086 ppm	0.4077 ppm	1.5113 ppm	0.0010 ppm	0.1982 ppm
Concentration per Run 3	-0.0014 ppm	13.3172 ppm	0.0080 ppm	0.4066 ppm	1.4886 ppm	-0.0013 ppm	0.1980 ppm
Concentration RSD	109.1 %	0.9 %	4.8 %	0.4 %	1.1 %	244.8 %	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	0.7847 ppm	101.9446 %	105.2126 %	81.9289 %	122.2078 %	134.6521 %	125.1633 %
Concentration per Run 1	0.7800 ppm	101.8374 %	105.3060 %	81.9261 %	122.1446 %	135.2359 %	125.5076 %
Concentration per Run 2	0.7879 ppm	101.6123 %	105.8583 %	81.7329 %	121.8171 %	134.9454 %	124.9969 %
Concentration per Run 3	0.7861 ppm	102.3842 %	104.4735 %	82.1277 %	122.6617 %	133.7751 %	124.9854 %
Concentration RSD	0.5 %	0.4 %	0.7 %	0.2 %	0.3 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473791-40D2 WG2010492
Analysis started at: 12/18/2024 9:31:48 AM
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	0.0029 ppm	118.3353 ppm	0.0434 ppm	0.0057 ppm	1.4551 ppm	0.0090 ppm	11.8485 ppm
Concentration per Run 1	0.0030 ppm	118.6772 ppm	0.0430 ppm	0.0051 ppm	1.4621 ppm	0.0090 ppm	11.8140 ppm
Concentration per Run 2	0.0033 ppm	118.4690 ppm	0.0450 ppm	0.0054 ppm	1.4552 ppm	0.0090 ppm	11.8168 ppm
Concentration per Run 3	0.0024 ppm	117.8598 ppm	0.0420 ppm	0.0065 ppm	1.4478 ppm	0.0090 ppm	11.9146 ppm
Concentration RSD	17.2 %	0.4 %	3.6 %	13.5 %	0.5 %	0.4 %	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	0.0018 ppm	0.1158 ppm	0.2045 ppm	0.2611 ppm	331.9899 ppm	10.3335 ppm	0.1533 ppm
Concentration per Run 1	0.0016 ppm	0.1175 ppm	0.2062 ppm	0.2625 ppm	332.1217 ppm	10.4406 ppm	0.1557 ppm
Concentration per Run 2	0.0019 ppm	0.1139 ppm	0.2027 ppm	0.2619 ppm	329.3526 ppm	10.3616 ppm	0.1543 ppm
Concentration per Run 3	0.0017 ppm	0.1160 ppm	0.2046 ppm	0.2589 ppm	334.4955 ppm	10.1982 ppm	0.1498 ppm
Concentration RSD	8.7 %	1.6 %	0.8 %	0.7 %	0.8 %	1.2 %	2.0 %

	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	32.7455 ppm	5.4084 ppm	0.0044 ppm	4.8975 ppm	0.2448 ppm	0.1623 ppm	0.0026 ppm
Concentration per Run 1	33.0081 ppm	5.4068 ppm	0.0043 ppm	4.9670 ppm	0.2465 ppm	0.1637 ppm	0.0013 ppm
Concentration per Run 2	32.4480 ppm	5.3838 ppm	0.0044 ppm	4.9178 ppm	0.2425 ppm	0.1614 ppm	0.0028 ppm
Concentration per Run 3	32.7804 ppm	5.4345 ppm	0.0046 ppm	4.8075 ppm	0.2453 ppm	0.1619 ppm	0.0039 ppm
Concentration RSD	0.9 %	0.5 %	3.4 %	1.7 %	0.8 %	0.7 %	50.7 %

	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	-0.0019 ppm	7.0731 ppm	0.0064 ppm	0.0865 ppm	0.7869 ppm	-0.0019 ppm	0.2315 ppm
Concentration per Run 1	-0.0027 ppm	7.0774 ppm	0.0080 ppm	0.0865 ppm	0.7983 ppm	-0.0018 ppm	0.2341 ppm
Concentration per Run 2	0.0004 ppm	7.0012 ppm	0.0056 ppm	0.0863 ppm	0.7815 ppm	-0.0020 ppm	0.2291 ppm
Concentration per Run 3	-0.0033 ppm	7.1408 ppm	0.0057 ppm	0.0866 ppm	0.7811 ppm	-0.0018 ppm	0.2313 ppm
Concentration RSD	105.4 %	1.0 %	21.1 %	0.2 %	1.2 %	6.6 %	1.1 %

	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	0.8240 ppm	103.4460 %	107.2779 %	84.0868 %	120.0798 %	132.3353 %	123.0532 %
Concentration per Run 1	0.8342 ppm	103.6415 %	107.2303 %	84.2150 %	121.3030 %	132.5801 %	123.5758 %
Concentration per Run 2	0.8169 ppm	103.2989 %	108.2189 %	84.1054 %	118.7315 %	133.1669 %	122.8016 %
Concentration per Run 3	0.8210 ppm	103.3975 %	106.3847 %	83.9400 %	120.2049 %	131.2588 %	122.7822 %
Concentration RSD	1.1 %	0.2 %	0.9 %	0.2 %	1.1 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473791-42D2 WG2010492
Analysis started at: 12/18/2024 9:36:14 AM
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	0.0027 ppm	105.2149 ppm	0.0492 ppm	0.0058 ppm	1.4206 ppm	0.0096 ppm	12.3660 ppm
Concentration per Run 1	0.0037 ppm	105.3304 ppm	0.0498 ppm	0.0049 ppm	1.4196 ppm	0.0096 ppm	12.3933 ppm
Concentration per Run 2	0.0027 ppm	105.7060 ppm	0.0500 ppm	0.0070 ppm	1.4310 ppm	0.0096 ppm	12.4087 ppm
Concentration per Run 3	0.0018 ppm	104.6083 ppm	0.0477 ppm	0.0055 ppm	1.4112 ppm	0.0096 ppm	12.2961 ppm
Concentration RSD	36.3 %	0.5 %	2.5 %	18.5 %	0.7 %	0.1 %	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	0.0029 ppm	0.1848 ppm	0.1965 ppm	0.2530 ppm	346.1304 ppm	11.0145 ppm	0.1367 ppm
Concentration per Run 1	0.0035 ppm	0.1872 ppm	0.1998 ppm	0.2553 ppm	348.0666 ppm	11.0822 ppm	0.1379 ppm
Concentration per Run 2	0.0030 ppm	0.1841 ppm	0.1967 ppm	0.2527 ppm	345.8748 ppm	11.0836 ppm	0.1380 ppm
Concentration per Run 3	0.0023 ppm	0.1829 ppm	0.1928 ppm	0.2509 ppm	344.4499 ppm	10.8777 ppm	0.1343 ppm
Concentration RSD	19.8 %	1.2 %	1.8 %	0.9 %	0.5 %	1.1 %	1.5 %

	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	32.5990 ppm	12.8189 ppm	0.0044 ppm	7.9619 ppm	0.2921 ppm	0.2199 ppm	0.0033 ppm
Concentration per Run 1	33.0214 ppm	12.8821 ppm	0.0043 ppm	7.9499 ppm	0.2974 ppm	0.2193 ppm	0.0016 ppm
Concentration per Run 2	32.5864 ppm	12.8128 ppm	0.0047 ppm	8.0308 ppm	0.2917 ppm	0.2224 ppm	0.0030 ppm
Concentration per Run 3	32.1893 ppm	12.7619 ppm	0.0041 ppm	7.9049 ppm	0.2872 ppm	0.2180 ppm	0.0053 ppm
Concentration RSD	1.3 %	0.5 %	7.0 %	0.8 %	1.8 %	1.0 %	55.7 %

	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	-0.0028 ppm	5.7962 ppm	0.0063 ppm	0.1046 ppm	0.8742 ppm	-0.0088 ppm	0.2152 ppm
Concentration per Run 1	-0.0033 ppm	5.9271 ppm	0.0052 ppm	0.1047 ppm	0.8898 ppm	-0.0097 ppm	0.2155 ppm
Concentration per Run 2	-0.0022 ppm	5.8086 ppm	0.0065 ppm	0.1048 ppm	0.8716 ppm	-0.0080 ppm	0.2160 ppm
Concentration per Run 3	-0.0029 ppm	5.6530 ppm	0.0070 ppm	0.1043 ppm	0.8612 ppm	-0.0087 ppm	0.2141 ppm
Concentration RSD	19.5 %	2.4 %	14.7 %	0.2 %	1.7 %	9.6 %	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	0.8007 ppm	106.1198 %	109.4830 %	85.3078 %	130.3890 %	142.1806 %	132.6775 %
Concentration per Run 1	0.8163 ppm	104.9970 %	109.5398 %	85.1542 %	129.1117 %	142.7810 %	133.0099 %
Concentration per Run 2	0.7998 ppm	106.2085 %	109.0242 %	85.3554 %	130.7724 %	141.8783 %	132.8693 %
Concentration per Run 3	0.7860 ppm	107.1540 %	109.8850 %	85.4137 %	131.2830 %	141.8824 %	132.1533 %
Concentration RSD	1.9 %	1.0 %	0.4 %	0.2 %	0.9 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473791-43D2 WG2010492
Analysis started at: 12/18/2024 9:40:40 AM
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	0.0030 ppm	102.0549 ppm	0.0859 ppm	0.0126 ppm	1.2789 ppm	0.0094 ppm	36.4413 ppm
Concentration per Run 1	0.0036 ppm	101.7371 ppm	0.0856 ppm	0.0131 ppm	1.2765 ppm	0.0093 ppm	36.3996 ppm
Concentration per Run 2	0.0026 ppm	102.0733 ppm	0.0855 ppm	0.0123 ppm	1.2722 ppm	0.0093 ppm	36.6003 ppm
Concentration per Run 3	0.0028 ppm	102.3543 ppm	0.0867 ppm	0.0123 ppm	1.2879 ppm	0.0094 ppm	36.3239 ppm
Concentration RSD	18.2 %	0.3 %	0.8 %	3.4 %	0.6 %	0.3 %	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	0.0022 ppm	0.1255 ppm	0.4362 ppm	0.2780 ppm	340.7894 ppm	9.5998 ppm	0.1360 ppm
Concentration per Run 1	0.0029 ppm	0.1258 ppm	0.4368 ppm	0.2801 ppm	340.5983 ppm	9.6214 ppm	0.1367 ppm
Concentration per Run 2	0.0019 ppm	0.1259 ppm	0.4371 ppm	0.2783 ppm	341.4910 ppm	9.5460 ppm	0.1352 ppm
Concentration per Run 3	0.0018 ppm	0.1249 ppm	0.4346 ppm	0.2755 ppm	340.2788 ppm	9.6321 ppm	0.1362 ppm
Concentration RSD	28.4 %	0.4 %	0.3 %	0.8 %	0.2 %	0.5 %	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	34.3912 ppm	6.9098 ppm	0.0185 ppm	4.4562 ppm	0.3721 ppm	0.1552 ppm	0.0031 ppm
Concentration per Run 1	34.4629 ppm	6.9135 ppm	0.0183 ppm	4.4366 ppm	0.3737 ppm	0.1556 ppm	0.0029 ppm
Concentration per Run 2	34.3729 ppm	6.9168 ppm	0.0186 ppm	4.4300 ppm	0.3721 ppm	0.1557 ppm	0.0031 ppm
Concentration per Run 3	34.3378 ppm	6.8992 ppm	0.0185 ppm	4.5022 ppm	0.3705 ppm	0.1541 ppm	0.0034 ppm
Concentration RSD	0.2 %	0.1 %	1.0 %	0.9 %	0.4 %	0.6 %	7.8 %

	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	-0.0019 ppm	7.1649 ppm	0.0072 ppm	0.1597 ppm	1.1998 ppm	-0.0017 ppm	0.2345 ppm
Concentration per Run 1	-0.0009 ppm	7.2926 ppm	0.0073 ppm	0.1589 ppm	1.2044 ppm	-0.0021 ppm	0.2337 ppm
Concentration per Run 2	-0.0036 ppm	7.1902 ppm	0.0064 ppm	0.1592 ppm	1.1975 ppm	-0.0007 ppm	0.2348 ppm
Concentration per Run 3	-0.0013 ppm	7.0117 ppm	0.0078 ppm	0.1610 ppm	1.1975 ppm	-0.0025 ppm	0.2351 ppm
Concentration RSD	74.8 %	2.0 %	9.7 %	0.7 %	0.3 %	55.3 %	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	0.7675 ppm	103.9578 %	108.0796 %	83.0760 %	122.2389 %	134.5960 %	123.8122 %
Concentration per Run 1	0.7663 ppm	102.9604 %	108.0536 %	82.8495 %	121.3152 %	134.8019 %	123.7061 %
Concentration per Run 2	0.7678 ppm	104.3255 %	107.5237 %	82.9201 %	122.3640 %	133.7761 %	123.2975 %
Concentration per Run 3	0.7685 ppm	104.5875 %	108.6614 %	83.4585 %	123.0373 %	135.2101 %	124.4328 %
Concentration RSD	0.1 %	0.8 %	0.5 %	0.4 %	0.7 %	0.5 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: xLDR 300PPM Fe
Analysis started at: 12/18/2024 9:46:07 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	0.0015 ppm	0.0304 ppm	0.0053 ppm	-0.0007 ppm	0.0003 ppm	0.0000 ppm	0.0096 ppm
Concentration per Run 1	0.0015 ppm	0.0293 ppm	0.0065 ppm	-0.0009 ppm	0.0002 ppm	0.0000 ppm	0.0076 ppm
Concentration per Run 2	0.0015 ppm	0.0329 ppm	0.0042 ppm	-0.0011 ppm	0.0003 ppm	0.0000 ppm	0.0114 ppm
Concentration per Run 3	0.0014 ppm	0.0290 ppm	0.0052 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0098 ppm
Concentration RSD	6.2 %	7.1 %	21.3 %	89.2 %	16.7 %	58.2 %	19.5 %

	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	0.0006 ppm	-0.0011 ppm	-0.0007 ppm	0.0021 ppm	278.3176 ppm	-0.0236 ppm	0.0001 ppm
Concentration per Run 1	0.0005 ppm	-0.0013 ppm	-0.0008 ppm	0.0021 ppm	277.5956 ppm	-0.0210 ppm	-0.0001 ppm
Concentration per Run 2	0.0007 ppm	-0.0010 ppm	-0.0008 ppm	0.0023 ppm	279.8024 ppm	-0.0209 ppm	0.0005 ppm
Concentration per Run 3	0.0005 ppm	-0.0009 ppm	-0.0005 ppm	0.0018 ppm	277.5549 ppm	-0.0289 ppm	0.0001 ppm
Concentration RSD	15.7 %	17.9 %	23.9 %	11.3 %	0.5 %	19.5 %	224.2 %

	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	0.0348 ppm	0.0006 ppm	-0.0016 ppm	0.0125 ppm	-0.0007 ppm	-0.0022 ppm	0.0018 ppm
Concentration per Run 1	0.0376 ppm	0.0005 ppm	-0.0019 ppm	0.0121 ppm	-0.0002 ppm	-0.0018 ppm	0.0035 ppm
Concentration per Run 2	0.0337 ppm	0.0005 ppm	-0.0014 ppm	0.0123 ppm	-0.0011 ppm	-0.0032 ppm	0.0000 ppm
Concentration per Run 3	0.0330 ppm	0.0007 ppm	-0.0014 ppm	0.0132 ppm	-0.0008 ppm	-0.0016 ppm	0.0018 ppm
Concentration RSD	7.2 %	16.9 %	18.9 %	4.7 %	67.8 %	39.7 %	98.8 %

	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	-0.0015 ppm	0.0114 ppm	0.0016 ppm	0.0002 ppm	0.0002 ppm	0.0003 ppm	-0.0010 ppm
Concentration per Run 1	-0.0025 ppm	0.0094 ppm	0.0017 ppm	0.0002 ppm	0.0003 ppm	0.0000 ppm	-0.0010 ppm
Concentration per Run 2	-0.0011 ppm	0.0138 ppm	0.0013 ppm	0.0002 ppm	0.0001 ppm	0.0002 ppm	-0.0010 ppm
Concentration per Run 3	-0.0010 ppm	0.0111 ppm	0.0019 ppm	0.0002 ppm	0.0001 ppm	0.0007 ppm	-0.0011 ppm
Concentration RSD	56.3 %	19.4 %	18.5 %	9.5 %	54.7 %	142.8 %	4.2 %

	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	0.0002 ppm	100.2589 %	99.8173 %	87.4698 %	94.2448 %	97.8510 %	94.0599 %
Concentration per Run 1	0.0003 ppm	100.1409 %	100.3072 %	87.3459 %	94.2990 %	98.3668 %	93.7772 %
Concentration per Run 2	0.0001 ppm	100.0164 %	98.9842 %	87.3713 %	94.1153 %	97.0902 %	93.9352 %
Concentration per Run 3	0.0001 ppm	100.6194 %	100.1604 %	87.6922 %	94.3202 %	98.0961 %	94.4674 %
Concentration RSD	75.7 %	0.3 %	0.7 %	0.2 %	0.1 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: LDR 400PPM Fe pass
Analysis started at: 12/18/2024 9:51:36 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	0.0013 ppm	0.0362 ppm	0.0053 ppm	0.0002 ppm	0.0003 ppm	0.0000 ppm	0.0086 ppm
Concentration per Run 1	0.0011 ppm	0.0357 ppm	0.0050 ppm	-0.0002 ppm	0.0003 ppm	0.0000 ppm	0.0096 ppm
Concentration per Run 2	0.0016 ppm	0.0338 ppm	0.0063 ppm	0.0006 ppm	0.0004 ppm	0.0000 ppm	0.0091 ppm
Concentration per Run 3	0.0012 ppm	0.0392 ppm	0.0046 ppm	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0071 ppm
Concentration RSD	17.9 %	7.5 %	16.4 %	275.3 %	9.9 %	131.4 %	15.7 %

	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	0.0006 ppm	-0.0015 ppm	-0.0013 ppm	0.0015 ppm	393.8062 ppm	-0.0436 ppm	0.0004 ppm
Concentration per Run 1	0.0005 ppm	-0.0014 ppm	-0.0013 ppm	0.0014 ppm	397.1867 ppm	-0.0487 ppm	0.0000 ppm
Concentration per Run 2	0.0006 ppm	-0.0015 ppm	-0.0010 ppm	0.0016 ppm	389.6811 ppm	-0.0358 ppm	0.0004 ppm
Concentration per Run 3	0.0007 ppm	-0.0016 ppm	-0.0014 ppm	0.0015 ppm	394.5509 ppm	-0.0461 ppm	0.0007 ppm
Concentration RSD	12.9 %	4.7 %	18.5 %	9.8 %	1.0 %	15.6 %	86.7 %

	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	0.0448 ppm	0.0005 ppm	-0.0022 ppm	0.0139 ppm	-0.0005 ppm	-0.0015 ppm	0.0018 ppm
Concentration per Run 1	0.0478 ppm	0.0005 ppm	-0.0021 ppm	0.0126 ppm	-0.0005 ppm	-0.0012 ppm	0.0003 ppm
Concentration per Run 2	0.0436 ppm	0.0006 ppm	-0.0021 ppm	0.0147 ppm	-0.0006 ppm	-0.0016 ppm	0.0028 ppm
Concentration per Run 3	0.0430 ppm	0.0005 ppm	-0.0025 ppm	0.0142 ppm	-0.0005 ppm	-0.0019 ppm	0.0021 ppm
Concentration RSD	5.8 %	7.2 %	11.5 %	7.9 %	13.3 %	21.9 %	72.7 %

	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	-0.0011 ppm	0.0061 ppm	0.0023 ppm	0.0004 ppm	0.0000 ppm	-0.0005 ppm	-0.0006 ppm
Concentration per Run 1	0.0006 ppm	0.0068 ppm	0.0024 ppm	0.0004 ppm	-0.0001 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 2	-0.0023 ppm	0.0050 ppm	0.0032 ppm	0.0003 ppm	0.0000 ppm	-0.0003 ppm	-0.0009 ppm
Concentration per Run 3	-0.0017 ppm	0.0067 ppm	0.0013 ppm	0.0003 ppm	-0.0001 ppm	-0.0008 ppm	-0.0008 ppm
Concentration RSD	134.0 %	16.3 %	40.8 %	10.8 %	153.2 %	51.8 %	86.0 %

	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	-0.0001 ppm	99.5329 %	99.5032 %	83.6324 %	93.8710 %	97.4581 %	92.3009 %
Concentration per Run 1	-0.0002 ppm	99.8099 %	98.8450 %	83.5238 %	94.2622 %	96.9360 %	92.1889 %
Concentration per Run 2	0.0000 ppm	99.5429 %	100.1521 %	83.3654 %	93.9173 %	97.5748 %	92.0753 %
Concentration per Run 3	-0.0001 ppm	99.2460 %	99.5125 %	84.0080 %	93.4334 %	97.8635 %	92.6385 %
Concentration RSD	120.1 %	0.3 %	0.7 %	0.4 %	0.4 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCV
Analysis started at: 12/18/2024 9:57:05 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	0.4812 ppm	0.4735 ppm	0.4792 ppm	0.4888 ppm	0.4854 ppm	0.5027 ppm	0.4881 ppm
Concentration per Run 1	0.4828 ppm	0.4787 ppm	0.4776 ppm	0.4917 ppm	0.4891 ppm	0.5054 ppm	0.4925 ppm
Concentration per Run 2	0.4803 ppm	0.4707 ppm	0.4797 ppm	0.4850 ppm	0.4832 ppm	0.4997 ppm	0.4840 ppm
Concentration per Run 3	0.4803 ppm	0.4710 ppm	0.4802 ppm	0.4899 ppm	0.4839 ppm	0.5032 ppm	0.4879 ppm
Recovery Percentage 1	96.232 %	94.694 %	95.836 %	97.767 %	97.076 %	100.546 %	97.627 %
Concentration RSD	0.3 %	1.0 %	0.3 %	0.7 %	0.7 %	0.6 %	0.9 %

	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	0.4913 ppm	0.5079 ppm	0.4883 ppm	0.4846 ppm	0.5278 ppm	5.1051 ppm	0.4907 ppm
Concentration per Run 1	0.4944 ppm	0.5095 ppm	0.4906 ppm	0.4854 ppm	0.5334 ppm	5.1346 ppm	0.4958 ppm
Concentration per Run 2	0.4894 ppm	0.5071 ppm	0.4863 ppm	0.4853 ppm	0.5254 ppm	5.0809 ppm	0.4872 ppm
Concentration per Run 3	0.4902 ppm	0.5069 ppm	0.4880 ppm	0.4831 ppm	0.5245 ppm	5.0998 ppm	0.4890 ppm
Recovery Percentage 1	98.268 %	101.575 %	97.665 %	96.913 %	105.551 %	102.102 %	98.132 %
Concentration RSD	0.5 %	0.3 %	0.4 %	0.3 %	0.9 %	0.5 %	0.9 %

	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	0.4932 ppm	0.4823 ppm	0.4986 ppm	9.9371 ppm	0.5061 ppm	0.4853 ppm	0.5009 ppm
Concentration per Run 1	0.4962 ppm	0.4848 ppm	0.4972 ppm	9.9316 ppm	0.5069 ppm	0.4852 ppm	0.4988 ppm
Concentration per Run 2	0.4902 ppm	0.4793 ppm	0.4973 ppm	9.9295 ppm	0.5052 ppm	0.4879 ppm	0.5051 ppm
Concentration per Run 3	0.4932 ppm	0.4827 ppm	0.5012 ppm	9.9501 ppm	0.5063 ppm	0.4827 ppm	0.4987 ppm
Recovery Percentage 1	98.643 %	96.457 %	99.712 %	99.371 %	101.229 %	97.057 %	100.178 %
Concentration RSD	0.6 %	0.6 %	0.5 %	0.1 %	0.2 %	0.5 %	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	0.4832 ppm	5.4758 ppm	0.5147 ppm	0.5150 ppm	0.4906 ppm	0.4866 ppm	0.4899 ppm
Concentration per Run 1	0.4809 ppm	5.4698 ppm	0.5178 ppm	0.5180 ppm	0.4928 ppm	0.4868 ppm	0.4940 ppm
Concentration per Run 2	0.4854 ppm	5.4720 ppm	0.5138 ppm	0.5117 ppm	0.4890 ppm	0.4907 ppm	0.4873 ppm
Concentration per Run 3	0.4832 ppm	5.4857 ppm	0.5125 ppm	0.5152 ppm	0.4900 ppm	0.4824 ppm	0.4884 ppm
Recovery Percentage 1	96.631 %	104.302 %	102.944 %	102.996 %	98.123 %	97.323 %	97.975 %
Concentration RSD	0.5 %	0.2 %	0.5 %	0.6 %	0.4 %	0.8 %	0.7 %

	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	0.4951 ppm	100.8426 %	100.2964 %	94.7101 %	96.0974 %	99.0964 %	96.6774 %
Concentration per Run 1	0.4986 ppm	99.9202 %	100.0133 %	95.0785 %	95.6721 %	99.0611 %	97.0724 %
Concentration per Run 2	0.4915 ppm	101.4829 %	100.7725 %	94.5456 %	96.6078 %	99.5253 %	96.7622 %
Concentration per Run 3	0.4952 ppm	101.1247 %	100.1033 %	94.5061 %	96.0122 %	98.7028 %	96.1977 %
Recovery Percentage 1	99.019 %						
Concentration RSD	0.7 %	0.8 %	0.4 %	0.3 %	0.5 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCB
Analysis started at: 12/18/2024 10:01:34 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	-0.0002 ppm	-0.0009 ppm	0.0011 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 1	-0.0001 ppm	-0.0025 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0016 ppm
Concentration per Run 2	-0.0002 ppm	-0.0025 ppm	0.0003 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 3	-0.0002 ppm	0.0022 ppm	0.0016 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	-0.0016 ppm
Recovery Percentage 1	-3.257 %	-0.920 %	21.227 %	0.522 %	-0.045 %	0.566 %	-0.748 %
Concentration RSD	29.8 %	297.0 %	64.6 %	333.9 %	519.8 %	53.0 %	204.6 %

	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	0.0000 ppm	0.0000 ppm	-0.0003 ppm	-0.0001 ppm	0.0039 ppm	0.0119 ppm	0.0003 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	-0.0002 ppm	0.0000 ppm	0.0044 ppm	0.0160 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	-0.0002 ppm	0.0038 ppm	0.0096 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0005 ppm	-0.0002 ppm	0.0037 ppm	0.0101 ppm	0.0001 ppm
Recovery Percentage 1	0.994 %	-0.499 %	-2.777 %	-1.427 %	7.900 %	0.476 %	3.090 %
Concentration RSD	193.9 %	566.4 %	54.5 %	67.4 %	9.8 %	29.7 %	94.7 %

	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	0.0001 ppm	0.0000 ppm	0.0041 ppm	0.0035 ppm	0.0000 ppm	0.0004 ppm	-0.0005 ppm
Concentration per Run 1	-0.0004 ppm	0.0000 ppm	0.0044 ppm	0.0039 ppm	-0.0001 ppm	-0.0003 ppm	-0.0012 ppm
Concentration per Run 2	0.0006 ppm	0.0000 ppm	0.0042 ppm	0.0030 ppm	0.0001 ppm	0.0008 ppm	-0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0037 ppm	0.0036 ppm	0.0001 ppm	0.0007 ppm	-0.0001 ppm
Recovery Percentage 1	0.073 %	0.264 %	8.171 %	0.173 %	0.079 %	3.774 %	-0.993 %
Concentration RSD	675.2 %	152.3 %	8.4 %	13.2 %	339.1 %	165.2 %	123.9 %

	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	0.0011 ppm	0.0076 ppm	-0.0003 ppm	0.0001 ppm	0.0002 ppm	-0.0005 ppm	0.0001 ppm
Concentration per Run 1	0.0014 ppm	0.0045 ppm	-0.0008 ppm	0.0001 ppm	0.0002 ppm	-0.0010 ppm	0.0000 ppm
Concentration per Run 2	0.0010 ppm	0.0145 ppm	-0.0002 ppm	0.0001 ppm	0.0003 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 3	0.0009 ppm	0.0039 ppm	0.0002 ppm	0.0001 ppm	0.0001 ppm	-0.0002 ppm	0.0001 ppm
Recovery Percentage 1	11.286 %	1.527 %	-0.507 %	0.668 %	1.751 %	-2.666 %	0.522 %
Concentration RSD	25.0 %	78.4 %	202.6 %	21.3 %	58.6 %	82.2 %	80.5 %

	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	100.9397 %	100.4509 %	96.2697 %	98.5531 %	100.3530 %	98.0937 %
Concentration per Run 1	0.0001 ppm	99.8505 %	100.3448 %	95.8978 %	97.6484 %	100.1628 %	97.9107 %
Concentration per Run 2	0.0001 ppm	101.3126 %	100.9717 %	96.1157 %	99.0697 %	101.2600 %	97.8446 %
Concentration per Run 3	0.0000 ppm	101.6559 %	100.0362 %	96.7956 %	98.9413 %	99.6361 %	98.5259 %
Recovery Percentage 1	1.587 %						
Concentration RSD	74.0 %	0.9 %	0.5 %	0.5 %	0.8 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473791-45D2 WG2010492
Analysis started at: 12/18/2024 10:05:59 AM
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	0.0021 ppm	73.3788 ppm	0.0834 ppm	0.0844 ppm	0.8763 ppm	0.0087 ppm	344.9335 ppm
Concentration per Run 1	0.0015 ppm	73.1066 ppm	0.0845 ppm	0.0856 ppm	0.8747 ppm	0.0087 ppm	344.5279 ppm
Concentration per Run 2	0.0024 ppm	73.7564 ppm	0.0849 ppm	0.0833 ppm	0.8817 ppm	0.0088 ppm	345.7969 ppm
Concentration per Run 3	0.0023 ppm	73.2734 ppm	0.0808 ppm	0.0843 ppm	0.8726 ppm	0.0086 ppm	344.4756 ppm
Concentration RSD	22.1 %	0.5 %	2.7 %	1.4 %	0.5 %	0.9 %	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	0.0002 ppm	0.0590 ppm	0.2323 ppm	0.1413 ppm	226.4594 ppm	7.5033 ppm	0.0970 ppm
Concentration per Run 1	0.0000 ppm	0.0591 ppm	0.2327 ppm	0.1413 ppm	226.4273 ppm	7.5095 ppm	0.0962 ppm
Concentration per Run 2	0.0002 ppm	0.0591 ppm	0.2323 ppm	0.1414 ppm	227.4441 ppm	7.5272 ppm	0.1001 ppm
Concentration per Run 3	0.0002 ppm	0.0588 ppm	0.2320 ppm	0.1412 ppm	225.5069 ppm	7.4732 ppm	0.0946 ppm
Concentration RSD	63.3 %	0.3 %	0.2 %	0.1 %	0.4 %	0.4 %	2.9 %

	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	69.3742 ppm	7.5478 ppm	0.0151 ppm	5.2572 ppm	0.1228 ppm	0.1204 ppm	0.0029 ppm
Concentration per Run 1	69.6328 ppm	7.5750 ppm	0.0151 ppm	5.1974 ppm	0.1232 ppm	0.1216 ppm	0.0050 ppm
Concentration per Run 2	69.3976 ppm	7.5472 ppm	0.0153 ppm	5.2917 ppm	0.1231 ppm	0.1195 ppm	0.0019 ppm
Concentration per Run 3	69.0921 ppm	7.5213 ppm	0.0147 ppm	5.2826 ppm	0.1219 ppm	0.1201 ppm	0.0019 ppm
Concentration RSD	0.4 %	0.4 %	2.0 %	1.0 %	0.6 %	0.9 %	61.3 %

	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	-0.0005 ppm	25.5525 [SIC 100]	0.0060 ppm	0.7421 ppm	1.6545 ppm	-0.0053 ppm	0.1502 ppm
Concentration per Run 1	-0.0004 ppm	25.5799 ppm	0.0058 ppm	0.7385 ppm	1.6584 ppm	-0.0046 ppm	0.1512 ppm
Concentration per Run 2	-0.0008 ppm	25.5523 ppm	0.0061 ppm	0.7486 ppm	1.6528 ppm	-0.0053 ppm	0.1502 ppm
Concentration per Run 3	-0.0002 ppm	25.5252 ppm	0.0062 ppm	0.7391 ppm	1.6523 ppm	-0.0058 ppm	0.1491 ppm
Concentration RSD	71.8 %	0.1 %	3.7 %	0.8 %	0.2 %	11.6 %	0.7 %

	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	0.5208 ppm	95.7042 %	100.7161 %	73.2930 %	114.5463 %	128.4154 %	114.9059 %
Concentration per Run 1	0.5232 ppm	95.6726 %	100.4898 %	73.2487 %	115.4058 %	128.3180 %	115.0001 %
Concentration per Run 2	0.5207 ppm	95.7098 %	100.8338 %	73.3422 %	114.2943 %	128.4466 %	115.0553 %
Concentration per Run 3	0.5183 ppm	95.7300 %	100.8246 %	73.2882 %	113.9387 %	128.4816 %	114.6623 %
Concentration RSD	0.5 %	0.0 %	0.2 %	0.1 %	0.7 %	0.1 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473791-46D2 WG2010492
Analysis started at: 12/18/2024 10:10:22 AM
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	0.0022 ppm	89.4290 ppm	0.0766 ppm	0.0179 ppm	0.9788 ppm	0.0090 ppm	26.8611 ppm
Concentration per Run 1	0.0024 ppm	89.8271 ppm	0.0779 ppm	0.0176 ppm	0.9842 ppm	0.0091 ppm	26.9877 ppm
Concentration per Run 2	0.0025 ppm	89.4536 ppm	0.0770 ppm	0.0185 ppm	0.9752 ppm	0.0090 ppm	26.7691 ppm
Concentration per Run 3	0.0018 ppm	89.0064 ppm	0.0748 ppm	0.0175 ppm	0.9771 ppm	0.0090 ppm	26.8264 ppm
Concentration RSD	18.5 %	0.5 %	2.1 %	3.0 %	0.5 %	0.7 %	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	0.0031 ppm	0.1207 ppm	0.2019 ppm	0.1918 ppm	289.5247 ppm	8.0826 ppm	0.1373 ppm
Concentration per Run 1	0.0034 ppm	0.1214 ppm	0.2037 ppm	0.1945 ppm	290.6692 ppm	8.1451 ppm	0.1385 ppm
Concentration per Run 2	0.0033 ppm	0.1208 ppm	0.2015 ppm	0.1924 ppm	288.5864 ppm	8.1063 ppm	0.1364 ppm
Concentration per Run 3	0.0026 ppm	0.1199 ppm	0.2004 ppm	0.1886 ppm	289.3185 ppm	7.9965 ppm	0.1368 ppm
Concentration RSD	13.0 %	0.6 %	0.8 %	1.6 %	0.4 %	1.0 %	0.8 %

	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	24.8667 ppm	4.4478 ppm	0.0136 ppm	6.4465 ppm	0.2077 ppm	0.2244 ppm	0.0042 ppm
Concentration per Run 1	25.0566 ppm	4.4685 ppm	0.0140 ppm	6.4647 ppm	0.2096 ppm	0.2256 ppm	0.0041 ppm
Concentration per Run 2	24.8493 ppm	4.4345 ppm	0.0133 ppm	6.4761 ppm	0.2070 ppm	0.2265 ppm	0.0033 ppm
Concentration per Run 3	24.6942 ppm	4.4403 ppm	0.0134 ppm	6.3987 ppm	0.2066 ppm	0.2210 ppm	0.0051 ppm
Concentration RSD	0.7 %	0.4 %	2.7 %	0.6 %	0.8 %	1.3 %	21.8 %

	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	0.0011 ppm	5.7217 ppm	0.0080 ppm	0.1345 ppm	0.6184 ppm	-0.0020 ppm	0.2011 ppm
Concentration per Run 1	0.0021 ppm	5.8475 ppm	0.0080 ppm	0.1353 ppm	0.6226 ppm	-0.0013 ppm	0.2021 ppm
Concentration per Run 2	-0.0002 ppm	5.7088 ppm	0.0082 ppm	0.1341 ppm	0.6155 ppm	-0.0021 ppm	0.2012 ppm
Concentration per Run 3	0.0013 ppm	5.6089 ppm	0.0079 ppm	0.1340 ppm	0.6171 ppm	-0.0027 ppm	0.2000 ppm
Concentration RSD	106.1 %	2.1 %	1.9 %	0.5 %	0.6 %	35.7 %	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	0.9047 ppm	103.5987 %	105.4607 %	84.3564 %	124.3197 %	133.2861 %	125.0923 %
Concentration per Run 1	0.9111 ppm	103.2734 %	105.3539 %	84.1501 %	124.4239 %	133.3741 %	125.0272 %
Concentration per Run 2	0.9014 ppm	103.5064 %	106.0598 %	83.9289 %	124.1853 %	134.1335 %	124.7012 %
Concentration per Run 3	0.9015 ppm	104.0163 %	104.9684 %	84.9900 %	124.3498 %	132.3508 %	125.5486 %
Concentration RSD	0.6 %	0.4 %	0.5 %	0.7 %	0.1 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473791-48D2 WG2010492
Analysis started at: 12/18/2024 10:14:45 AM
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	0.0011 ppm	106.4750 ppm	0.0254 ppm	0.0069 ppm	1.3421 ppm	0.0081 ppm	11.4743 ppm
Concentration per Run 1	0.0016 ppm	107.4413 ppm	0.0247 ppm	0.0066 ppm	1.3535 ppm	0.0082 ppm	11.5470 ppm
Concentration per Run 2	0.0013 ppm	106.1460 ppm	0.0256 ppm	0.0072 ppm	1.3380 ppm	0.0081 ppm	11.4026 ppm
Concentration per Run 3	0.0003 ppm	105.8375 ppm	0.0260 ppm	0.0071 ppm	1.3350 ppm	0.0081 ppm	11.4734 ppm
Concentration RSD	65.3 %	0.8 %	2.7 %	4.8 %	0.7 %	1.0 %	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	0.0015 ppm	0.1214 ppm	0.2064 ppm	0.2511 ppm	257.2040 ppm	10.3606 ppm	0.1408 ppm
Concentration per Run 1	0.0017 ppm	0.1222 ppm	0.2072 ppm	0.2523 ppm	258.4067 ppm	10.3845 ppm	0.1424 ppm
Concentration per Run 2	0.0017 ppm	0.1215 ppm	0.2071 ppm	0.2515 ppm	256.1940 ppm	10.3920 ppm	0.1415 ppm
Concentration per Run 3	0.0012 ppm	0.1204 ppm	0.2049 ppm	0.2496 ppm	257.0114 ppm	10.3052 ppm	0.1385 ppm
Concentration RSD	18.3 %	0.7 %	0.6 %	0.5 %	0.4 %	0.5 %	1.4 %

	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	38.5778 ppm	4.4741 ppm	0.0022 ppm	7.6359 ppm	0.2638 ppm	0.1099 ppm	0.0001 ppm
Concentration per Run 1	38.7840 ppm	4.4972 ppm	0.0020 ppm	7.7117 ppm	0.2649 ppm	0.1122 ppm	-0.0013 ppm
Concentration per Run 2	38.6774 ppm	4.4608 ppm	0.0021 ppm	7.6210 ppm	0.2635 ppm	0.1076 ppm	0.0005 ppm
Concentration per Run 3	38.2720 ppm	4.4642 ppm	0.0024 ppm	7.5749 ppm	0.2631 ppm	0.1099 ppm	0.0010 ppm
Concentration RSD	0.7 %	0.4 %	9.9 %	0.9 %	0.4 %	2.1 %	1,544.9 %

	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	-0.0008 ppm	6.0388 ppm	0.0061 ppm	0.0979 ppm	0.8387 ppm	-0.0014 ppm	0.1719 ppm
Concentration per Run 1	-0.0005 ppm	6.1283 ppm	0.0065 ppm	0.0988 ppm	0.8386 ppm	-0.0014 ppm	0.1717 ppm
Concentration per Run 2	-0.0018 ppm	6.0210 ppm	0.0062 ppm	0.0975 ppm	0.8341 ppm	-0.0015 ppm	0.1714 ppm
Concentration per Run 3	-0.0002 ppm	5.9669 ppm	0.0058 ppm	0.0974 ppm	0.8433 ppm	-0.0014 ppm	0.1724 ppm
Concentration RSD	100.3 %	1.4 %	6.0 %	0.8 %	0.6 %	4.9 %	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	0.7678 ppm	104.1576 %	106.1061 %	84.5449 %	121.1420 %	129.0707 %	121.3545 %
Concentration per Run 1	0.7718 ppm	103.7621 %	105.8095 %	84.4571 %	120.8862 %	128.9229 %	121.8309 %
Concentration per Run 2	0.7705 ppm	104.0397 %	106.4338 %	84.6956 %	120.6010 %	129.8416 %	121.2293 %
Concentration per Run 3	0.7612 ppm	104.6708 %	106.0750 %	84.4820 %	121.9389 %	128.4476 %	121.0032 %
Concentration RSD	0.8 %	0.4 %	0.3 %	0.2 %	0.6 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473791-49D2 WG2010492
Analysis started at: 12/18/2024 10:19:09 AM
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	0.0008 ppm	73.7869 ppm	0.0676 ppm	0.0065 ppm	0.8049 ppm	0.0077 ppm	8.7675 ppm
Concentration per Run 1	0.0003 ppm	74.3611 ppm	0.0670 ppm	0.0063 ppm	0.8113 ppm	0.0077 ppm	8.8428 ppm
Concentration per Run 2	0.0012 ppm	73.3977 ppm	0.0681 ppm	0.0061 ppm	0.8002 ppm	0.0077 ppm	8.8150 ppm
Concentration per Run 3	0.0009 ppm	73.6018 ppm	0.0678 ppm	0.0070 ppm	0.8031 ppm	0.0076 ppm	8.6447 ppm
Concentration RSD	59.3 %	0.7 %	0.9 %	7.6 %	0.7 %	0.9 %	1.2 %

	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	0.0012 ppm	0.1242 ppm	0.1322 ppm	0.1370 ppm	227.1468 ppm	6.2450 ppm	0.1087 ppm
Concentration per Run 1	0.0011 ppm	0.1240 ppm	0.1323 ppm	0.1371 ppm	228.2409 ppm	6.3048 ppm	0.1100 ppm
Concentration per Run 2	0.0014 ppm	0.1240 ppm	0.1326 ppm	0.1383 ppm	227.7096 ppm	6.1738 ppm	0.1062 ppm
Concentration per Run 3	0.0010 ppm	0.1245 ppm	0.1318 ppm	0.1355 ppm	225.4900 ppm	6.2565 ppm	0.1098 ppm
Concentration RSD	14.5 %	0.2 %	0.3 %	1.0 %	0.6 %	1.1 %	2.0 %

	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	20.8511 ppm	4.1748 ppm	0.0116 ppm	4.9109 ppm	0.1817 ppm	0.1487 ppm	0.0036 ppm
Concentration per Run 1	20.8076 ppm	4.1968 ppm	0.0116 ppm	4.9297 ppm	0.1808 ppm	0.1486 ppm	0.0016 ppm
Concentration per Run 2	20.9114 ppm	4.1895 ppm	0.0115 ppm	4.8437 ppm	0.1819 ppm	0.1482 ppm	0.0043 ppm
Concentration per Run 3	20.8343 ppm	4.1382 ppm	0.0117 ppm	4.9594 ppm	0.1823 ppm	0.1493 ppm	0.0050 ppm
Concentration RSD	0.3 %	0.8 %	0.8 %	1.2 %	0.4 %	0.4 %	48.9 %

	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	-0.0008 ppm	8.7336 ppm	0.0051 ppm	0.0677 ppm	0.8291 ppm	-0.0009 ppm	0.1639 ppm
Concentration per Run 1	0.0005 ppm	8.7273 ppm	0.0054 ppm	0.0678 ppm	0.8145 ppm	-0.0013 ppm	0.1647 ppm
Concentration per Run 2	-0.0013 ppm	8.8533 ppm	0.0048 ppm	0.0678 ppm	0.8419 ppm	-0.0006 ppm	0.1632 ppm
Concentration per Run 3	-0.0015 ppm	8.6203 ppm	0.0051 ppm	0.0674 ppm	0.8309 ppm	-0.0008 ppm	0.1638 ppm
Concentration RSD	143.6 %	1.3 %	5.8 %	0.4 %	1.7 %	38.0 %	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	0.5242 ppm	103.7767 %	104.9431 %	86.0424 %	121.9826 %	128.4886 %	122.5332 %
Concentration per Run 1	0.5247 ppm	104.2145 %	104.5321 %	86.2936 %	123.0470 %	127.8897 %	122.8348 %
Concentration per Run 2	0.5231 ppm	103.7261 %	104.4867 %	86.2110 %	121.6930 %	128.1288 %	122.6182 %
Concentration per Run 3	0.5249 ppm	103.3894 %	105.8105 %	85.6226 %	121.2078 %	129.4473 %	122.1464 %
Concentration RSD	0.2 %	0.4 %	0.7 %	0.4 %	0.8 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473791-51D2 WG2010492
Analysis started at: 12/18/2024 10:23:33 AM
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	0.0008 ppm	104.9482 ppm	0.0267 ppm	0.0155 ppm	0.6783 ppm	0.0094 ppm	49.7991 ppm
Concentration per Run 1	0.0011 ppm	104.9366 ppm	0.0263 ppm	0.0153 ppm	0.6766 ppm	0.0094 ppm	49.8667 ppm
Concentration per Run 2	0.0007 ppm	104.9704 ppm	0.0272 ppm	0.0156 ppm	0.6838 ppm	0.0094 ppm	49.6315 ppm
Concentration per Run 3	0.0006 ppm	104.9376 ppm	0.0266 ppm	0.0154 ppm	0.6744 ppm	0.0094 ppm	49.8992 ppm
Concentration RSD	34.7 %	0.0 %	1.7 %	0.9 %	0.7 %	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	0.0011 ppm	0.0856 ppm	0.1728 ppm	0.0730 ppm	305.1344 ppm	8.1400 ppm	0.1585 ppm
Concentration per Run 1	0.0013 ppm	0.0861 ppm	0.1733 ppm	0.0738 ppm	305.2138 ppm	8.1492 ppm	0.1594 ppm
Concentration per Run 2	0.0010 ppm	0.0847 ppm	0.1722 ppm	0.0728 ppm	306.2341 ppm	8.2176 ppm	0.1592 ppm
Concentration per Run 3	0.0010 ppm	0.0861 ppm	0.1728 ppm	0.0724 ppm	303.9552 ppm	8.0533 ppm	0.1570 ppm
Concentration RSD	13.2 %	0.9 %	0.3 %	1.0 %	0.4 %	1.0 %	0.8 %

	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	34.7111 ppm	9.0923 ppm	0.0082 ppm	1.2951 ppm	0.1474 ppm	0.1112 ppm	0.0025 ppm
Concentration per Run 1	34.8089 ppm	9.1054 ppm	0.0079 ppm	1.2973 ppm	0.1478 ppm	0.1116 ppm	0.0012 ppm
Concentration per Run 2	34.5986 ppm	9.1024 ppm	0.0081 ppm	1.2907 ppm	0.1467 ppm	0.1118 ppm	0.0043 ppm
Concentration per Run 3	34.7257 ppm	9.0690 ppm	0.0086 ppm	1.2974 ppm	0.1478 ppm	0.1102 ppm	0.0019 ppm
Concentration RSD	0.3 %	0.2 %	4.0 %	0.3 %	0.4 %	0.8 %	65.0 %

	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	0.0002 ppm	14.9541 ppm	0.0105 ppm	0.1396 ppm	1.6843 ppm	-0.0051 ppm	0.2016 ppm
Concentration per Run 1	0.0009 ppm	15.2263 ppm	0.0105 ppm	0.1395 ppm	1.6826 ppm	-0.0055 ppm	0.2020 ppm
Concentration per Run 2	-0.0013 ppm	14.7434 ppm	0.0108 ppm	0.1406 ppm	1.6786 ppm	-0.0042 ppm	0.2010 ppm
Concentration per Run 3	0.0011 ppm	14.8926 ppm	0.0103 ppm	0.1387 ppm	1.6917 ppm	-0.0055 ppm	0.2018 ppm
Concentration RSD	621.9 %	1.7 %	2.5 %	0.7 %	0.4 %	15.4 %	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	0.4583 ppm	103.8932 %	105.6644 %	80.9407 %	124.8118 %	132.3208 %	124.1404 %
Concentration per Run 1	0.4584 ppm	103.3694 %	106.0560 %	80.3888 %	124.5558 %	132.6302 %	123.9058 %
Concentration per Run 2	0.4570 ppm	104.2788 %	105.5705 %	80.9354 %	125.0369 %	132.0025 %	124.1444 %
Concentration per Run 3	0.4594 ppm	104.0314 %	105.3668 %	81.4979 %	124.8425 %	132.3297 %	124.3710 %
Concentration RSD	0.3 %	0.5 %	0.3 %	0.7 %	0.2 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473791-52D2 WG2010492
Analysis started at: 12/18/2024 10:27:58 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	-0.0001 ppm	45.4111 ppm	0.0179 ppm	0.0057 ppm	0.1970 ppm	0.0057 ppm	11.3391 ppm
Concentration per Run 1	0.0004 ppm	45.4878 ppm	0.0174 ppm	0.0052 ppm	0.1981 ppm	0.0058 ppm	11.3766 ppm
Concentration per Run 2	-0.0003 ppm	45.2252 ppm	0.0187 ppm	0.0065 ppm	0.1952 ppm	0.0057 ppm	11.2485 ppm
Concentration per Run 3	-0.0004 ppm	45.5204 ppm	0.0175 ppm	0.0054 ppm	0.1977 ppm	0.0057 ppm	11.3922 ppm
Concentration RSD	455.1 %	0.4 %	4.2 %	12.5 %	0.8 %	1.4 %	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	0.0561 ppm	0.1099 ppm	0.0442 ppm	190.7036 ppm	4.6679 ppm	0.0625 ppm
Concentration per Run 1	0.0005 ppm	0.0561 ppm	0.1105 ppm	0.0451 ppm	192.0699 ppm	4.7140 ppm	0.0629 ppm
Concentration per Run 2	0.0002 ppm	0.0564 ppm	0.1098 ppm	0.0437 ppm	189.0881 ppm	4.6722 ppm	0.0631 ppm
Concentration per Run 3	0.0003 ppm	0.0558 ppm	0.1094 ppm	0.0438 ppm	190.9528 ppm	4.6175 ppm	0.0614 ppm
Concentration RSD	53.4 %	0.5 %	0.5 %	1.7 %	0.8 %	1.0 %	1.5 %

	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	18.3917 ppm	5.2556 ppm	0.0096 ppm	0.4382 ppm	0.1020 ppm	0.0677 ppm	0.0026 ppm
Concentration per Run 1	18.4676 ppm	5.2761 ppm	0.0098 ppm	0.4370 ppm	0.1022 ppm	0.0679 ppm	0.0028 ppm
Concentration per Run 2	18.4709 ppm	5.2093 ppm	0.0096 ppm	0.4435 ppm	0.1025 ppm	0.0674 ppm	0.0023 ppm
Concentration per Run 3	18.2367 ppm	5.2814 ppm	0.0093 ppm	0.4342 ppm	0.1014 ppm	0.0678 ppm	0.0026 ppm
Concentration RSD	0.7 %	0.8 %	2.8 %	1.1 %	0.6 %	0.3 %	9.1 %

	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	-0.0012 ppm	6.9162 ppm	0.0052 ppm	0.0465 ppm	0.6241 ppm	-0.0034 ppm	0.0937 ppm
Concentration per Run 1	-0.0010 ppm	7.0388 ppm	0.0045 ppm	0.0468 ppm	0.6212 ppm	-0.0034 ppm	0.0930 ppm
Concentration per Run 2	-0.0005 ppm	6.8496 ppm	0.0056 ppm	0.0456 ppm	0.6310 ppm	-0.0037 ppm	0.0946 ppm
Concentration per Run 3	-0.0021 ppm	6.8602 ppm	0.0055 ppm	0.0471 ppm	0.6201 ppm	-0.0032 ppm	0.0936 ppm
Concentration RSD	67.5 %	1.5 %	12.0 %	1.7 %	1.0 %	8.3 %	0.9 %

	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	0.3007 ppm	103.4741 %	103.4902 %	87.0404 %	110.0319 %	113.9900 %	109.2332 %
Concentration per Run 1	0.3015 ppm	103.4702 %	103.5379 %	86.8229 %	109.7478 %	114.2025 %	108.9740 %
Concentration per Run 2	0.3029 ppm	103.2914 %	104.0026 %	87.1390 %	109.7924 %	113.8399 %	109.0915 %
Concentration per Run 3	0.2976 ppm	103.6606 %	102.9302 %	87.1592 %	110.5556 %	113.9278 %	109.6342 %
Concentration RSD	0.9 %	0.2 %	0.5 %	0.2 %	0.4 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473791-53D2 WG2010492
Analysis started at: 12/18/2024 10:32:23 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	142.6658 ppm	0.0602 ppm	0.0495 ppm	1.7473 ppm	0.0161 ppm	277.8166 ppm
Concentration per Run 1	0.0010 ppm	142.1992 ppm	0.0595 ppm	0.0499 ppm	1.7537 ppm	0.0160 ppm	275.8065 ppm
Concentration per Run 2	0.0014 ppm	142.6390 ppm	0.0610 ppm	0.0501 ppm	1.7483 ppm	0.0162 ppm	279.1773 ppm
Concentration per Run 3	0.0001 ppm	143.1593 ppm	0.0602 ppm	0.0486 ppm	1.7399 ppm	0.0161 ppm	278.4660 ppm
Concentration RSD	82.4 %	0.3 %	1.2 %	1.7 %	0.4 %	0.5 %	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	0.0010 ppm	0.0997 ppm	0.2496 ppm	0.2357 ppm	360.0167 ppm	13.7758 ppm	0.2131 ppm
Concentration per Run 1	0.0012 ppm	0.1000 ppm	0.2509 ppm	0.2364 ppm	357.1556 ppm	13.8812 ppm	0.2146 ppm
Concentration per Run 2	0.0011 ppm	0.1000 ppm	0.2494 ppm	0.2378 ppm	363.0025 ppm	13.7496 ppm	0.2125 ppm
Concentration per Run 3	0.0006 ppm	0.0989 ppm	0.2485 ppm	0.2327 ppm	359.8919 ppm	13.6965 ppm	0.2122 ppm
Concentration RSD	33.8 %	0.6 %	0.5 %	1.1 %	0.8 %	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	90.9870 ppm	8.8626 ppm	0.0139 ppm	3.6490 ppm	0.2249 ppm	0.2004 ppm	0.0030 ppm
Concentration per Run 1	91.5748 ppm	8.8312 ppm	0.0142 ppm	3.6444 ppm	0.2258 ppm	0.2002 ppm	0.0031 ppm
Concentration per Run 2	90.8112 ppm	8.9052 ppm	0.0138 ppm	3.6361 ppm	0.2250 ppm	0.2001 ppm	0.0018 ppm
Concentration per Run 3	90.5750 ppm	8.8514 ppm	0.0138 ppm	3.6665 ppm	0.2239 ppm	0.2008 ppm	0.0040 ppm
Concentration RSD	0.6 %	0.4 %	1.5 %	0.4 %	0.4 %	0.2 %	38.2 %

	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	0.0039 ppm	26.1326 [SIC 100]	0.0099 ppm	0.8310 ppm	1.0768 ppm	-0.0059 ppm	0.2198 ppm
Concentration per Run 1	0.0041 ppm	26.3330 ppm	0.0079 ppm	0.8311 ppm	1.0831 ppm	-0.0057 ppm	0.2203 ppm
Concentration per Run 2	0.0034 ppm	26.2984 ppm	0.0116 ppm	0.8312 ppm	1.0723 ppm	-0.0051 ppm	0.2184 ppm
Concentration per Run 3	0.0041 ppm	25.7663 ppm	0.0100 ppm	0.8306 ppm	1.0750 ppm	-0.0068 ppm	0.2205 ppm
Concentration RSD	9.6 %	1.2 %	18.6 %	0.0 %	0.5 %	14.2 %	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	0.9670 ppm	99.1423 %	103.5997 %	73.8257 %	128.1837 %	140.4170 %	126.7434 %
Concentration per Run 1	0.9743 ppm	98.6885 %	104.2781 %	73.7262 %	127.6779 %	141.5483 %	126.5563 %
Concentration per Run 2	0.9617 ppm	99.3891 %	103.3281 %	73.8535 %	128.4206 %	139.8744 %	126.4567 %
Concentration per Run 3	0.9651 ppm	99.3493 %	103.1928 %	73.8973 %	128.4527 %	139.8284 %	127.2172 %
Concentration RSD	0.7 %	0.4 %	0.6 %	0.1 %	0.3 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473791-54D2 WG2010492
Analysis started at: 12/18/2024 10:36:48 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	0.0006 ppm	131.3338 ppm	0.0761 ppm	0.0144 ppm	1.8901 ppm	0.0085 ppm	16.8787 ppm
Concentration per Run 1	0.0007 ppm	131.8550 ppm	0.0770 ppm	0.0146 ppm	1.8946 ppm	0.0086 ppm	16.9717 ppm
Concentration per Run 2	0.0007 ppm	131.4986 ppm	0.0755 ppm	0.0147 ppm	1.8896 ppm	0.0085 ppm	16.8629 ppm
Concentration per Run 3	0.0005 ppm	130.6479 ppm	0.0757 ppm	0.0138 ppm	1.8861 ppm	0.0085 ppm	16.8014 ppm
Concentration RSD	15.0 %	0.5 %	1.1 %	3.2 %	0.2 %	0.5 %	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	0.0029 ppm	0.1322 ppm	0.2740 ppm	0.2898 ppm	378.5720 ppm	11.6073 ppm	0.1990 ppm
Concentration per Run 1	0.0031 ppm	0.1328 ppm	0.2745 ppm	0.2883 ppm	380.4580 ppm	11.5665 ppm	0.1993 ppm
Concentration per Run 2	0.0027 ppm	0.1316 ppm	0.2736 ppm	0.2906 ppm	378.4474 ppm	11.6417 ppm	0.2001 ppm
Concentration per Run 3	0.0029 ppm	0.1323 ppm	0.2738 ppm	0.2905 ppm	376.8107 ppm	11.6138 ppm	0.1976 ppm
Concentration RSD	6.8 %	0.4 %	0.2 %	0.4 %	0.5 %	0.3 %	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	39.7270 ppm	8.2061 ppm	0.0106 ppm	0.8339 ppm	0.2818 ppm	0.2284 ppm	0.0058 ppm
Concentration per Run 1	39.8574 ppm	8.2588 ppm	0.0101 ppm	0.8341 ppm	0.2818 ppm	0.2301 ppm	0.0035 ppm
Concentration per Run 2	39.6485 ppm	8.1841 ppm	0.0107 ppm	0.8375 ppm	0.2798 ppm	0.2279 ppm	0.0072 ppm
Concentration per Run 3	39.6752 ppm	8.1754 ppm	0.0110 ppm	0.8299 ppm	0.2839 ppm	0.2270 ppm	0.0067 ppm
Concentration RSD	0.3 %	0.6 %	4.0 %	0.5 %	0.7 %	0.7 %	34.6 %

	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	-0.0008 ppm	5.0585 ppm	0.0347 ppm	0.1446 ppm	0.8498 ppm	-0.0045 ppm	0.3324 ppm
Concentration per Run 1	-0.0023 ppm	5.0907 ppm	0.0353 ppm	0.1451 ppm	0.8539 ppm	-0.0042 ppm	0.3334 ppm
Concentration per Run 2	0.0005 ppm	5.0405 ppm	0.0345 ppm	0.1444 ppm	0.8480 ppm	-0.0053 ppm	0.3321 ppm
Concentration per Run 3	-0.0007 ppm	5.0445 ppm	0.0342 ppm	0.1441 ppm	0.8475 ppm	-0.0040 ppm	0.3316 ppm
Concentration RSD	177.1 %	0.6 %	1.7 %	0.3 %	0.4 %	16.0 %	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	0.9824 ppm	105.8591 %	108.2882 %	82.5837 %	142.5172 %	151.9947 %	141.1821 %
Concentration per Run 1	0.9858 ppm	105.7064 %	107.7515 %	82.2926 %	142.3951 %	151.8019 %	141.0270 %
Concentration per Run 2	0.9764 ppm	106.1789 %	108.2542 %	82.6494 %	142.8251 %	151.6614 %	141.1894 %
Concentration per Run 3	0.9852 ppm	105.6921 %	108.8588 %	82.8090 %	142.3314 %	152.5208 %	141.3301 %
Concentration RSD	0.5 %	0.3 %	0.5 %	0.3 %	0.2 %	0.3 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCV
Analysis started at: 12/18/2024 10:41:28 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	0.4762 ppm	0.4756 ppm	0.4813 ppm	0.4770 ppm	0.4894 ppm	0.5007 ppm	0.4881 ppm
Concentration per Run 1	0.4772 ppm	0.4732 ppm	0.4810 ppm	0.4760 ppm	0.4907 ppm	0.5010 ppm	0.4926 ppm
Concentration per Run 2	0.4767 ppm	0.4791 ppm	0.4802 ppm	0.4786 ppm	0.4918 ppm	0.5015 ppm	0.4865 ppm
Concentration per Run 3	0.4748 ppm	0.4746 ppm	0.4826 ppm	0.4763 ppm	0.4858 ppm	0.4996 ppm	0.4853 ppm
Recovery Percentage 1	95.243 %	95.125 %	96.254 %	95.397 %	97.885 %	100.138 %	97.627 %
Concentration RSD	0.3 %	0.6 %	0.2 %	0.3 %	0.7 %	0.2 %	0.8 %

	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	0.4851 ppm	0.5009 ppm	0.4820 ppm	0.4837 ppm	0.5274 ppm	5.1223 ppm	0.4999 ppm
Concentration per Run 1	0.4883 ppm	0.5034 ppm	0.4835 ppm	0.4816 ppm	0.5320 ppm	5.1550 ppm	0.5018 ppm
Concentration per Run 2	0.4841 ppm	0.4992 ppm	0.4823 ppm	0.4841 ppm	0.5269 ppm	5.1111 ppm	0.5012 ppm
Concentration per Run 3	0.4830 ppm	0.5002 ppm	0.4803 ppm	0.4855 ppm	0.5233 ppm	5.1008 ppm	0.4968 ppm
Recovery Percentage 1	97.026 %	100.189 %	96.409 %	96.747 %	105.484 %	102.445 %	99.982 %
Concentration RSD	0.6 %	0.4 %	0.3 %	0.4 %	0.8 %	0.6 %	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	0.4888 ppm	0.4800 ppm	0.4922 ppm	10.0920 ppm	0.4976 ppm	0.4849 ppm	0.4904 ppm
Concentration per Run 1	0.4926 ppm	0.4813 ppm	0.4908 ppm	10.1735 ppm	0.4983 ppm	0.4856 ppm	0.4879 ppm
Concentration per Run 2	0.4867 ppm	0.4795 ppm	0.4911 ppm	10.0990 ppm	0.4998 ppm	0.4854 ppm	0.4897 ppm
Concentration per Run 3	0.4872 ppm	0.4793 ppm	0.4948 ppm	10.0033 ppm	0.4946 ppm	0.4837 ppm	0.4936 ppm
Recovery Percentage 1	97.769 %	96.009 %	98.442 %	100.920 %	99.514 %	96.977 %	98.079 %
Concentration RSD	0.7 %	0.2 %	0.5 %	0.8 %	0.5 %	0.2 %	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	0.4878 ppm	5.4517 ppm	0.5049 ppm	0.5203 ppm	0.4828 ppm	0.4869 ppm	0.4857 ppm
Concentration per Run 1	0.4892 ppm	5.4458 ppm	0.5084 ppm	0.5198 ppm	0.4845 ppm	0.4858 ppm	0.4874 ppm
Concentration per Run 2	0.4863 ppm	5.4616 ppm	0.5033 ppm	0.5221 ppm	0.4832 ppm	0.4886 ppm	0.4852 ppm
Concentration per Run 3	0.4880 ppm	5.4475 ppm	0.5029 ppm	0.5190 ppm	0.4806 ppm	0.4864 ppm	0.4844 ppm
Recovery Percentage 1	97.566 %	103.841 %	100.975 %	104.061 %	96.553 %	97.382 %	97.133 %
Concentration RSD	0.3 %	0.2 %	0.6 %	0.3 %	0.4 %	0.3 %	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	0.4886 ppm	102.1302 %	100.9207 %	94.4943 %	96.6808 %	98.7535 %	96.7260 %
Concentration per Run 1	0.4927 ppm	101.6641 %	100.4171 %	94.2830 %	96.9930 %	98.2770 %	96.5803 %
Concentration per Run 2	0.4881 ppm	102.4578 %	100.7990 %	94.2942 %	96.9142 %	98.9334 %	96.5989 %
Concentration per Run 3	0.4850 ppm	102.2687 %	101.5461 %	94.9057 %	96.1351 %	99.0500 %	96.9989 %
Recovery Percentage 1	97.725 %						
Concentration RSD	0.8 %	0.4 %	0.6 %	0.4 %	0.5 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCB
Analysis started at: 12/18/2024 10:45:53 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	-0.0055 ppm	0.0022 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	-0.0042 ppm	0.0033 ppm	0.0003 ppm	-0.0001 ppm	0.0000 ppm	-0.0003 ppm
Concentration per Run 2	-0.0004 ppm	-0.0070 ppm	0.0028 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0015 ppm
Concentration per Run 3	-0.0001 ppm	-0.0051 ppm	0.0004 ppm	-0.0003 ppm	-0.0001 ppm	0.0000 ppm	-0.0005 ppm
Recovery Percentage 1	-2.775 %	-5.468 %	43.216 %	-0.553 %	-0.279 %	0.644 %	0.225 %
Concentration RSD	163.8 %	25.9 %	69.4 %	245.0 %	201.9 %	35.0 %	485.0 %

	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	0.0001 ppm	-0.0001 ppm	-0.0003 ppm	0.0041 ppm	0.0156 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	0.0000 ppm	-0.0003 ppm	0.0046 ppm	0.0120 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0003 ppm	0.0035 ppm	0.0231 ppm	0.0009 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	-0.0002 ppm	-0.0003 ppm	0.0042 ppm	0.0116 ppm	0.0002 ppm
Recovery Percentage 1	1.131 %	0.711 %	-0.718 %	-3.250 %	8.217 %	0.624 %	4.511 %
Concentration RSD	85.3 %	472.7 %	113.8 %	8.3 %	12.7 %	41.9 %	82.0 %

	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	0.0038 ppm	0.0017 ppm	0.0001 ppm	-0.0001 ppm	0.0009 ppm
Concentration per Run 1	-0.0024 ppm	0.0001 ppm	0.0041 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0045 ppm
Concentration per Run 2	-0.0002 ppm	0.0000 ppm	0.0036 ppm	0.0030 ppm	0.0002 ppm	0.0001 ppm	-0.0021 ppm
Concentration per Run 3	0.0014 ppm	0.0001 ppm	0.0036 ppm	0.0020 ppm	0.0001 ppm	-0.0005 ppm	0.0002 ppm
Recovery Percentage 1	-0.405 %	0.813 %	7.538 %	0.083 %	0.497 %	-0.760 %	1.707 %
Concentration RSD	478.0 %	107.5 %	6.6 %	88.0 %	84.5 %	433.2 %	392.2 %

	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	0.0075 ppm	0.0002 ppm	0.0001 ppm	0.0001 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 1	0.0003 ppm	0.0085 ppm	0.0004 ppm	0.0000 ppm	0.0001 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run 2	0.0003 ppm	0.0072 ppm	0.0002 ppm	0.0001 ppm	0.0002 ppm	-0.0011 ppm	-0.0003 ppm
Concentration per Run 3	0.0030 ppm	0.0067 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0002 ppm
Recovery Percentage 1	12.028 %	1.491 %	0.375 %	0.575 %	1.014 %	-1.835 %	-0.647 %
Concentration RSD	132.1 %	12.3 %	125.3 %	53.3 %	92.1 %	186.3 %	388.8 %

	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	0.0001 ppm	102.0000 %	100.9225 %	95.9982 %	98.6871 %	99.8033 %	97.7755 %
Concentration per Run 1	0.0001 ppm	101.6691 %	100.3537 %	95.6365 %	98.4815 %	99.2649 %	97.6619 %
Concentration per Run 2	0.0002 ppm	101.8044 %	101.1081 %	95.7932 %	98.8264 %	99.8529 %	97.4679 %
Concentration per Run 3	0.0000 ppm	102.5264 %	101.3056 %	96.5648 %	98.7535 %	100.2920 %	98.1965 %
Recovery Percentage 1	1.665 %						
Concentration RSD	101.1 %	0.5 %	0.5 %	0.5 %	0.2 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010362-1 WG2010362
Analysis started at: 12/18/2024 10:52:36 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	-0.0003 ppm	-0.0008 ppm	0.0009 ppm	-0.0007 ppm	-0.0001 ppm	0.0000 ppm	0.0121 ppm
Concentration per Run 1	-0.0004 ppm	-0.0013 ppm	0.0019 ppm	-0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0116 ppm
Concentration per Run 2	-0.0002 ppm	-0.0002 ppm	0.0003 ppm	-0.0008 ppm	-0.0001 ppm	0.0000 ppm	0.0121 ppm
Concentration per Run 3	-0.0002 ppm	-0.0011 ppm	0.0004 ppm	-0.0010 ppm	-0.0001 ppm	0.0000 ppm	0.0127 ppm
Recovery Percentage 1	-5.477 %	-0.838 %	17.561 %	-2.227 %	-0.843 %	0.016 %	12.130 %
Concentration RSD	50.7 %	69.9 %	103.6 %	57.9 %	27.4 %	1,800.5 %	4.3 %

	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	-0.0002 ppm	0.0001 ppm	0.0017 ppm	0.0018 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	-0.0002 ppm	0.0000 ppm	0.0017 ppm	-0.0024 ppm	0.0003 ppm
Concentration per Run 2	0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0001 ppm	0.0022 ppm	0.0012 ppm	-0.0001 ppm
Concentration per Run 3	-0.0001 ppm	-0.0002 ppm	-0.0004 ppm	0.0001 ppm	0.0013 ppm	0.0066 ppm	-0.0004 ppm
Recovery Percentage 1	-0.038 %	1.300 %	-2.355 %	0.608 %	3.438 %	0.073 %	-0.604 %
Concentration RSD	3,900.9 %	231.4 %	62.8 %	114.4 %	26.4 %	247.3 %	566.9 %

	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	-0.0004 ppm	0.0001 ppm	0.0005 ppm	-0.0029 ppm	0.0006 ppm	0.0004 ppm	-0.0009 ppm
Concentration per Run 1	0.0002 ppm	0.0001 ppm	0.0007 ppm	-0.0065 ppm	0.0009 ppm	0.0006 ppm	-0.0007 ppm
Concentration per Run 2	-0.0004 ppm	0.0001 ppm	0.0006 ppm	-0.0014 ppm	0.0004 ppm	0.0005 ppm	-0.0007 ppm
Concentration per Run 3	-0.0012 ppm	0.0001 ppm	0.0002 ppm	-0.0007 ppm	0.0004 ppm	0.0002 ppm	-0.0013 ppm
Recovery Percentage 1	-0.442 %	0.964 %	0.925 %	-0.143 %	2.252 %	4.091 %	-1.829 %
Concentration RSD	163.1 %	13.8 %	59.9 %	110.3 %	57.0 %	43.7 %	38.5 %

	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	0.0070 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	-0.0001 ppm
Concentration per Run 1	0.0010 ppm	0.0084 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 2	-0.0007 ppm	0.0059 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 3	-0.0005 ppm	0.0066 ppm	-0.0002 ppm	0.0000 ppm	-0.0001 ppm	0.0012 ppm	-0.0001 ppm
Recovery Percentage 1	-1.049 %	1.391 %	-0.025 %	0.372 %	-0.299 %	2.159 %	-1.187 %
Concentration RSD	884.8 %	18.9 %	3,289.9 %	71.5 %	218.2 %	152.9 %	86.5 %

	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	97.0917 %	99.7018 %	96.4701 %	100.3427 %	101.5250 %	99.5245 %
Concentration per Run 1	0.0006 ppm	96.2114 %	99.0315 %	95.8816 %	100.6235 %	101.3167 %	99.7961 %
Concentration per Run 2	0.0004 ppm	97.0044 %	99.4869 %	96.5894 %	100.0232 %	101.5607 %	99.5657 %
Concentration per Run 3	0.0008 ppm	98.0593 %	100.5870 %	96.9394 %	100.3813 %	101.6975 %	99.2118 %
Recovery Percentage 1	11.558 %						
Concentration RSD	33.5 %	1.0 %	0.8 %	0.6 %	0.3 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010362-2 WG2010362
Analysis started at: 12/18/2024 10:57:09 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	0.0508 ppm	2.1183 ppm	0.1229 ppm	0.9834 ppm	2.0343 ppm	0.0509 ppm	9.9910 ppm
Concentration per Run 1	0.0513 ppm	2.1078 ppm	0.1233 ppm	0.9884 ppm	2.0387 ppm	0.0508 ppm	9.9831 ppm
Concentration per Run 2	0.0507 ppm	2.1211 ppm	0.1226 ppm	0.9841 ppm	2.0249 ppm	0.0508 ppm	9.9511 ppm
Concentration per Run 3	0.0503 ppm	2.1260 ppm	0.1230 ppm	0.9778 ppm	2.0394 ppm	0.0510 ppm	10.0387 ppm
Concentration RSD	1.0 %	0.4 %	0.3 %	0.5 %	0.4 %	0.3 %	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	0.0545 ppm	0.5230 ppm	0.2057 ppm	0.2623 ppm	1.0074 ppm	10.9046 ppm	0.0005 ppm
Concentration per Run 1	0.0548 ppm	0.5265 ppm	0.2067 ppm	0.2632 ppm	1.0111 ppm	10.8972 ppm	0.0005 ppm
Concentration per Run 2	0.0540 ppm	0.5213 ppm	0.2055 ppm	0.2648 ppm	1.0029 ppm	10.8831 ppm	0.0005 ppm
Concentration per Run 3	0.0546 ppm	0.5212 ppm	0.2048 ppm	0.2589 ppm	1.0082 ppm	10.9335 ppm	0.0004 ppm
Concentration RSD	0.7 %	0.6 %	0.5 %	1.2 %	0.4 %	0.2 %	7.3 %

	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	10.3811 ppm	0.4957 ppm	0.9341 ppm	10.9913 ppm	0.5105 ppm	0.5489 ppm	0.4313 ppm
Concentration per Run 1	10.4607 ppm	0.4956 ppm	0.9305 ppm	10.9578 ppm	0.5139 ppm	0.5497 ppm	0.4307 ppm
Concentration per Run 2	10.3586 ppm	0.4938 ppm	0.9296 ppm	11.0788 ppm	0.5061 ppm	0.5506 ppm	0.4308 ppm
Concentration per Run 3	10.3241 ppm	0.4976 ppm	0.9422 ppm	10.9372 ppm	0.5115 ppm	0.5466 ppm	0.4326 ppm
Concentration RSD	0.7 %	0.4 %	0.8 %	0.7 %	0.8 %	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	0.1216 ppm	0.8794 ppm	1.0062 ppm	1.0125 ppm	1.0174 ppm	0.1260 ppm	0.5282 ppm
Concentration per Run 1	0.1226 ppm	0.8836 ppm	1.0108 ppm	1.0136 ppm	1.0267 ppm	0.1266 ppm	0.5332 ppm
Concentration per Run 2	0.1215 ppm	0.8780 ppm	0.9986 ppm	1.0131 ppm	1.0152 ppm	0.1266 ppm	0.5273 ppm
Concentration per Run 3	0.1206 ppm	0.8765 ppm	1.0092 ppm	1.0107 ppm	1.0104 ppm	0.1248 ppm	0.5240 ppm
Concentration RSD	0.8 %	0.4 %	0.7 %	0.2 %	0.8 %	0.8 %	0.9 %

	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	0.5071 ppm	98.2484 %	100.8478 %	90.3677 %	96.5905 %	100.1987 %	95.8401 %
Concentration per Run 1	0.5098 ppm	97.3863 %	100.9503 %	90.0703 %	96.6154 %	100.5386 %	95.9872 %
Concentration per Run 2	0.5029 ppm	98.3533 %	101.4413 %	90.2044 %	96.6147 %	100.4524 %	95.8221 %
Concentration per Run 3	0.5085 ppm	99.0055 %	100.1518 %	90.8283 %	96.5414 %	99.6051 %	95.7112 %
Concentration RSD	0.7 %	0.8 %	0.6 %	0.4 %	0.0 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: zL2472692-01d2 WG2010362
Analysis started at: 12/18/2024 11:01:36 AM
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	-0.0003 ppm	0.4418 ppm	0.0021 ppm	0.0330 ppm	0.1230 ppm	0.0000 ppm	21.3962 ppm
Concentration per Run 1	-0.0006 ppm	0.4394 ppm	0.0024 ppm	0.0338 ppm	0.1226 ppm	0.0000 ppm	21.3128 ppm
Concentration per Run 2	-0.0003 ppm	0.4418 ppm	0.0020 ppm	0.0331 ppm	0.1233 ppm	0.0000 ppm	21.4576 ppm
Concentration per Run 3	-0.0001 ppm	0.4442 ppm	0.0018 ppm	0.0322 ppm	0.1231 ppm	0.0000 ppm	21.4181 ppm
Concentration RSD	65.4 %	0.5 %	15.0 %	2.4 %	0.3 %	376.9 %	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	0.0004 ppm	0.0001 ppm	0.0020 ppm	0.0984 ppm	17.0132 ppm	0.0023 ppm
Concentration per Run 1	0.0003 ppm	0.0005 ppm	0.0000 ppm	0.0020 ppm	0.0982 ppm	17.0459 ppm	0.0022 ppm
Concentration per Run 2	0.0002 ppm	0.0005 ppm	0.0000 ppm	0.0019 ppm	0.0994 ppm	16.9709 ppm	0.0024 ppm
Concentration per Run 3	0.0002 ppm	0.0002 ppm	0.0003 ppm	0.0022 ppm	0.0977 ppm	17.0228 ppm	0.0022 ppm
Concentration RSD	10.4 %	36.3 %	151.6 %	6.2 %	0.9 %	0.2 %	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	2.7333 ppm	0.6421 ppm	0.0125 ppm	171.0200 ppm	0.0016 ppm	0.0004 ppm	0.0106 ppm
Concentration per Run 1	2.7798 ppm	0.6396 ppm	0.0130 ppm	170.9761 ppm	0.0022 ppm	0.0002 ppm	0.0106 ppm
Concentration per Run 2	2.7286 ppm	0.6439 ppm	0.0126 ppm	170.3410 ppm	0.0012 ppm	0.0012 ppm	0.0123 ppm
Concentration per Run 3	2.6914 ppm	0.6427 ppm	0.0120 ppm	171.7428 ppm	0.0014 ppm	-0.0004 ppm	0.0090 ppm
Concentration RSD	1.6 %	0.3 %	4.0 %	0.4 %	33.8 %	218.1 %	15.6 %

	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	0.0000 ppm	2.5245 ppm	0.0050 ppm	0.1152 ppm	0.0025 ppm	0.0003 ppm	0.0016 ppm
Concentration per Run 1	0.0008 ppm	2.5739 ppm	0.0054 ppm	0.1149 ppm	0.0024 ppm	0.0002 ppm	0.0015 ppm
Concentration per Run 2	-0.0011 ppm	2.5081 ppm	0.0051 ppm	0.1155 ppm	0.0026 ppm	0.0006 ppm	0.0015 ppm
Concentration per Run 3	0.0003 ppm	2.4914 ppm	0.0047 ppm	0.1153 ppm	0.0025 ppm	0.0001 ppm	0.0017 ppm
Concentration RSD	11,014.4 %	1.7 %	7.3 %	0.3 %	3.4 %	82.2 %	8.5 %

	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	0.0322 ppm	93.6142 %	99.6285 %	83.8379 %	91.1749 %	98.3270 %	91.5105 %
Concentration per Run 1	0.0325 ppm	92.4932 %	99.7159 %	83.4263 %	91.1736 %	98.2210 %	91.4297 %
Concentration per Run 2	0.0320 ppm	93.8601 %	99.4787 %	83.8600 %	91.4144 %	98.1754 %	91.6416 %
Concentration per Run 3	0.0319 ppm	94.4893 %	99.6908 %	84.2273 %	90.9367 %	98.5845 %	91.4602 %
Concentration RSD	1.0 %	1.1 %	0.1 %	0.5 %	0.3 %	0.2 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: zWG2010362-3d2 WG2010362
Analysis started at: 12/18/2024 11:06:00 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	0.0250 ppm	1.5035 ppm	0.0659 ppm	0.5235 ppm	1.1349 ppm	0.0256 ppm	26.7102 ppm
Concentration per Run 1	0.0250 ppm	1.5078 ppm	0.0661 ppm	0.5248 ppm	1.1326 ppm	0.0255 ppm	26.6241 ppm
Concentration per Run 2	0.0251 ppm	1.4929 ppm	0.0662 ppm	0.5274 ppm	1.1383 ppm	0.0256 ppm	26.7297 ppm
Concentration per Run 3	0.0248 ppm	1.5098 ppm	0.0655 ppm	0.5185 ppm	1.1336 ppm	0.0256 ppm	26.7767 ppm
Concentration RSD	0.5 %	0.6 %	0.6 %	0.9 %	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	0.0265 ppm	0.2528 ppm	0.0998 ppm	0.1322 ppm	0.5939 ppm	22.8651 ppm	0.0025 ppm
Concentration per Run 1	0.0265 ppm	0.2536 ppm	0.0999 ppm	0.1329 ppm	0.5944 ppm	22.7028 ppm	0.0030 ppm
Concentration per Run 2	0.0264 ppm	0.2534 ppm	0.1000 ppm	0.1327 ppm	0.5952 ppm	22.8951 ppm	0.0020 ppm
Concentration per Run 3	0.0265 ppm	0.2514 ppm	0.0993 ppm	0.1311 ppm	0.5921 ppm	22.9975 ppm	0.0026 ppm
Concentration RSD	0.3 %	0.5 %	0.4 %	0.8 %	0.3 %	0.7 %	18.2 %

	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	7.6580 ppm	0.8987 ppm	0.4863 ppm	178.7148 ppm	0.2464 ppm	0.2707 ppm	0.2536 ppm
Concentration per Run 1	7.6877 ppm	0.8960 ppm	0.4830 ppm	177.6168 ppm	0.2480 ppm	0.2717 ppm	0.2549 ppm
Concentration per Run 2	7.6732 ppm	0.8997 ppm	0.4877 ppm	178.1120 ppm	0.2453 ppm	0.2711 ppm	0.2522 ppm
Concentration per Run 3	7.6131 ppm	0.9005 ppm	0.4881 ppm	180.4155 ppm	0.2459 ppm	0.2694 ppm	0.2537 ppm
Concentration RSD	0.5 %	0.3 %	0.6 %	0.8 %	0.6 %	0.4 %	0.5 %

	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	0.0641 ppm	3.0471 ppm	0.4576 ppm	0.6195 ppm	0.4991 ppm	0.0592 ppm	0.2625 ppm
Concentration per Run 1	0.0646 ppm	3.0564 ppm	0.4567 ppm	0.6195 ppm	0.5004 ppm	0.0602 ppm	0.2647 ppm
Concentration per Run 2	0.0625 ppm	3.0556 ppm	0.4585 ppm	0.6195 ppm	0.5015 ppm	0.0587 ppm	0.2628 ppm
Concentration per Run 3	0.0651 ppm	3.0293 ppm	0.4577 ppm	0.6194 ppm	0.4953 ppm	0.0588 ppm	0.2600 ppm
Concentration RSD	2.1 %	0.5 %	0.2 %	0.0 %	0.7 %	1.4 %	0.9 %

	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	0.2845 ppm	93.5540 %	99.1686 %	81.6522 %	90.7044 %	98.0657 %	90.4465 %
Concentration per Run 1	0.2842 ppm	93.2312 %	99.9643 %	81.2317 %	91.5253 %	98.9520 %	90.0660 %
Concentration per Run 2	0.2850 ppm	93.5421 %	98.6990 %	81.4972 %	90.5557 %	97.3005 %	90.4577 %
Concentration per Run 3	0.2843 ppm	93.8888 %	98.8426 %	82.2278 %	90.0321 %	97.9445 %	90.8157 %
Concentration RSD	0.2 %	0.4 %	0.7 %	0.6 %	0.8 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: zWG2010362-4d2 WG2010362
Analysis started at: 12/18/2024 11:10:24 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	-0.0002 ppm	0.4462 ppm	0.0019 ppm	0.0328 ppm	0.1256 ppm	0.0000 ppm	21.7185 ppm
Concentration per Run 1	-0.0001 ppm	0.4490 ppm	0.0019 ppm	0.0329 ppm	0.1260 ppm	0.0000 ppm	21.8184 ppm
Concentration per Run 2	-0.0003 ppm	0.4429 ppm	0.0026 ppm	0.0334 ppm	0.1258 ppm	0.0000 ppm	21.7081 ppm
Concentration per Run 3	-0.0002 ppm	0.4468 ppm	0.0013 ppm	0.0322 ppm	0.1251 ppm	0.0000 ppm	21.6290 ppm
Concentration RSD	44.1 %	0.7 %	34.5 %	1.8 %	0.4 %	139.6 %	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	0.0003 ppm	0.0001 ppm	0.0022 ppm	0.1017 ppm	17.3769 ppm	0.0021 ppm
Concentration per Run 1	0.0004 ppm	0.0001 ppm	-0.0001 ppm	0.0023 ppm	0.1026 ppm	17.3649 ppm	0.0023 ppm
Concentration per Run 2	0.0002 ppm	0.0007 ppm	0.0004 ppm	0.0021 ppm	0.1011 ppm	17.2899 ppm	0.0016 ppm
Concentration per Run 3	0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0021 ppm	0.1013 ppm	17.4759 ppm	0.0024 ppm
Concentration RSD	37.1 %	101.2 %	167.0 %	4.7 %	0.8 %	0.5 %	20.2 %

	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	2.7584 ppm	0.6529 ppm	0.0057 ppm	173.6141 ppm	0.0016 ppm	0.0009 ppm	0.0023 ppm
Concentration per Run 1	2.7889 ppm	0.6540 ppm	0.0057 ppm	173.8363 ppm	0.0019 ppm	0.0012 ppm	0.0031 ppm
Concentration per Run 2	2.7494 ppm	0.6543 ppm	0.0058 ppm	172.3135 ppm	0.0016 ppm	0.0006 ppm	0.0022 ppm
Concentration per Run 3	2.7369 ppm	0.6503 ppm	0.0056 ppm	174.6925 ppm	0.0013 ppm	0.0008 ppm	0.0016 ppm
Concentration RSD	1.0 %	0.3 %	2.4 %	0.7 %	18.9 %	36.0 %	32.8 %

	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	-0.0002 ppm	2.5471 ppm	0.0019 ppm	0.1174 ppm	0.0024 ppm	0.0001 ppm	0.0015 ppm
Concentration per Run 1	0.0004 ppm	2.5808 ppm	0.0026 ppm	0.1176 ppm	0.0025 ppm	-0.0001 ppm	0.0016 ppm
Concentration per Run 2	-0.0014 ppm	2.5335 ppm	0.0013 ppm	0.1174 ppm	0.0023 ppm	0.0001 ppm	0.0014 ppm
Concentration per Run 3	0.0003 ppm	2.5270 ppm	0.0017 ppm	0.1171 ppm	0.0023 ppm	0.0002 ppm	0.0014 ppm
Concentration RSD	454.6 %	1.2 %	36.5 %	0.2 %	3.6 %	203.5 %	8.3 %

	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	0.0321 ppm	93.9497 %	99.4538 %	83.5300 %	91.5300 %	98.2147 %	91.4754 %
Concentration per Run 1	0.0329 ppm	92.8117 %	99.0633 %	82.9161 %	91.4885 %	97.7854 %	91.2503 %
Concentration per Run 2	0.0320 ppm	94.0729 %	99.4045 %	83.6931 %	91.8987 %	98.3282 %	91.6303 %
Concentration per Run 3	0.0315 ppm	94.9646 %	99.8936 %	83.9807 %	91.2028 %	98.5304 %	91.5457 %
Concentration RSD	2.2 %	1.2 %	0.4 %	0.7 %	0.4 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: zWG2010362-5d2 WG2010362
Analysis started at: 12/18/2024 11:14:48 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	0.0499 ppm	2.4724 ppm	0.1279 ppm	1.0386 ppm	2.1331 ppm	0.0511 ppm	30.6746 ppm
Concentration per Run 1	0.0499 ppm	2.4785 ppm	0.1279 ppm	1.0456 ppm	2.1181 ppm	0.0510 ppm	30.8179 ppm
Concentration per Run 2	0.0501 ppm	2.4708 ppm	0.1268 ppm	1.0388 ppm	2.1356 ppm	0.0512 ppm	30.6943 ppm
Concentration per Run 3	0.0496 ppm	2.4680 ppm	0.1290 ppm	1.0316 ppm	2.1456 ppm	0.0510 ppm	30.5116 ppm
Concentration RSD	0.6 %	0.2 %	0.9 %	0.7 %	0.7 %	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	0.0518 ppm	0.5068 ppm	0.2006 ppm	0.2666 ppm	1.1160 ppm	28.2607 ppm	0.0031 ppm
Concentration per Run 1	0.0524 ppm	0.5094 ppm	0.2017 ppm	0.2688 ppm	1.1240 ppm	27.8022 ppm	0.0028 ppm
Concentration per Run 2	0.0515 ppm	0.5087 ppm	0.2000 ppm	0.2681 ppm	1.1162 ppm	28.5214 ppm	0.0036 ppm
Concentration per Run 3	0.0514 ppm	0.5023 ppm	0.2001 ppm	0.2630 ppm	1.1077 ppm	28.4585 ppm	0.0029 ppm
Concentration RSD	1.0 %	0.8 %	0.5 %	1.2 %	0.7 %	1.4 %	14.4 %

	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	12.7128 ppm	1.1150 ppm	0.9890 ppm	178.8497 ppm	0.5042 ppm	0.5455 ppm	0.4270 ppm
Concentration per Run 1	12.8100 ppm	1.1124 ppm	0.9917 ppm	178.7472 ppm	0.5086 ppm	0.5486 ppm	0.4258 ppm
Concentration per Run 2	12.6836 ppm	1.1198 ppm	0.9889 ppm	178.5452 ppm	0.5019 ppm	0.5451 ppm	0.4276 ppm
Concentration per Run 3	12.6447 ppm	1.1127 ppm	0.9863 ppm	179.2568 ppm	0.5019 ppm	0.5429 ppm	0.4277 ppm
Concentration RSD	0.7 %	0.4 %	0.3 %	0.2 %	0.8 %	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	0.1253 ppm	3.5196 ppm	1.0198 ppm	1.1457 ppm	1.0365 ppm	0.1196 ppm	0.5270 ppm
Concentration per Run 1	0.1235 ppm	3.5481 ppm	1.0316 ppm	1.1416 ppm	1.0437 ppm	0.1209 ppm	0.5320 ppm
Concentration per Run 2	0.1277 ppm	3.5274 ppm	1.0146 ppm	1.1451 ppm	1.0362 ppm	0.1185 ppm	0.5264 ppm
Concentration per Run 3	0.1248 ppm	3.4833 ppm	1.0132 ppm	1.1504 ppm	1.0297 ppm	0.1194 ppm	0.5225 ppm
Concentration RSD	1.7 %	0.9 %	1.0 %	0.4 %	0.7 %	1.0 %	0.9 %

	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	0.5478 ppm	93.1158 %	99.4972 %	80.4382 %	90.3315 %	97.9802 %	89.9339 %
Concentration per Run 1	0.5531 ppm	92.6752 %	99.3807 %	80.0766 %	91.0524 %	98.4375 %	89.9026 %
Concentration per Run 2	0.5455 ppm	93.1542 %	98.9461 %	80.5061 %	90.1439 %	97.2100 %	89.9269 %
Concentration per Run 3	0.5448 ppm	93.5180 %	100.1649 %	80.7318 %	89.7983 %	98.2930 %	89.9721 %
Concentration RSD	0.8 %	0.5 %	0.6 %	0.4 %	0.7 %	0.7 %	0.0 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: zWG2010362-6d10 WG2010362
Analysis started at: 12/18/2024 11:19:12 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	-0.0003 ppm	0.0831 ppm	0.0025 ppm	0.0065 ppm	0.0244 ppm	0.0000 ppm	4.3811 ppm
Concentration per Run 1	-0.0005 ppm	0.0823 ppm	0.0027 ppm	0.0077 ppm	0.0244 ppm	0.0000 ppm	4.3842 ppm
Concentration per Run 2	-0.0001 ppm	0.0839 ppm	0.0030 ppm	0.0057 ppm	0.0243 ppm	0.0000 ppm	4.3735 ppm
Concentration per Run 3	-0.0002 ppm	0.0832 ppm	0.0020 ppm	0.0062 ppm	0.0246 ppm	0.0000 ppm	4.3856 ppm
Concentration RSD	68.6 %	1.0 %	20.4 %	15.8 %	0.5 %	68.5 %	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	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0239 ppm	3.2657 ppm	0.0012 ppm
Concentration per Run 1	-0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0243 ppm	3.2457 ppm	0.0011 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0242 ppm	3.2783 ppm	0.0013 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0003 ppm	0.0231 ppm	3.2731 ppm	0.0010 ppm
Concentration RSD	355.6 %	52.6 %	393.9 %	73.6 %	2.7 %	0.5 %	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	0.5585 ppm	0.1297 ppm	0.0116 ppm	34.1770 ppm	0.0006 ppm	0.0004 ppm	0.0178 ppm
Concentration per Run 1	0.5597 ppm	0.1297 ppm	0.0117 ppm	33.5817 ppm	0.0008 ppm	0.0004 ppm	0.0172 ppm
Concentration per Run 2	0.5467 ppm	0.1294 ppm	0.0114 ppm	34.5160 ppm	0.0005 ppm	0.0004 ppm	0.0169 ppm
Concentration per Run 3	0.5691 ppm	0.1299 ppm	0.0118 ppm	34.4335 ppm	0.0005 ppm	0.0005 ppm	0.0194 ppm
Concentration RSD	2.0 %	0.2 %	1.6 %	1.5 %	26.5 %	20.4 %	7.5 %

	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	-0.0002 ppm	0.4902 ppm	0.0033 ppm	0.0230 ppm	0.0008 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 1	0.0006 ppm	0.4903 ppm	0.0037 ppm	0.0231 ppm	0.0008 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 2	-0.0008 ppm	0.4814 ppm	0.0027 ppm	0.0229 ppm	0.0006 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 3	-0.0005 ppm	0.4987 ppm	0.0033 ppm	0.0230 ppm	0.0009 ppm	0.0004 ppm	0.0002 ppm
Concentration RSD	312.9 %	1.8 %	16.0 %	0.5 %	21.1 %	144.2 %	30.1 %

	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	0.0067 ppm	99.2656 %	100.4740 %	92.4279 %	95.2482 %	99.0547 %	95.5687 %
Concentration per Run 1	0.0066 ppm	98.7365 %	100.2489 %	92.6500 %	95.9543 %	98.7357 %	96.4614 %
Concentration per Run 2	0.0066 ppm	101.1472 %	100.9906 %	92.0534 %	96.0579 %	99.4172 %	95.1241 %
Concentration per Run 3	0.0069 ppm	97.9131 %	100.1825 %	92.5802 %	93.7324 %	99.0113 %	95.1207 %
Concentration RSD	2.5 %	1.7 %	0.4 %	0.4 %	1.4 %	0.3 %	0.8 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCV
Analysis started at: 12/18/2024 11:23:37 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	0.4779 ppm	0.4683 ppm	0.4790 ppm	0.4815 ppm	0.4905 ppm	0.5020 ppm	0.4873 ppm
Concentration per Run 1	0.4827 ppm	0.4673 ppm	0.4809 ppm	0.4846 ppm	0.4908 ppm	0.5040 ppm	0.4877 ppm
Concentration per Run 2	0.4745 ppm	0.4683 ppm	0.4780 ppm	0.4798 ppm	0.4895 ppm	0.4996 ppm	0.4858 ppm
Concentration per Run 3	0.4764 ppm	0.4692 ppm	0.4780 ppm	0.4800 ppm	0.4911 ppm	0.5024 ppm	0.4885 ppm
Recovery Percentage 1	95.571 %	93.652 %	95.795 %	96.294 %	98.096 %	100.399 %	97.460 %
Concentration RSD	0.9 %	0.2 %	0.3 %	0.6 %	0.2 %	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	0.4871 ppm	0.5055 ppm	0.4839 ppm	0.4858 ppm	0.5009 ppm	5.1211 ppm	0.4974 ppm
Concentration per Run 1	0.4906 ppm	0.5088 ppm	0.4878 ppm	0.4908 ppm	0.5022 ppm	5.1205 ppm	0.4955 ppm
Concentration per Run 2	0.4851 ppm	0.5046 ppm	0.4812 ppm	0.4840 ppm	0.4987 ppm	5.1202 ppm	0.5005 ppm
Concentration per Run 3	0.4855 ppm	0.5032 ppm	0.4827 ppm	0.4827 ppm	0.5019 ppm	5.1226 ppm	0.4964 ppm
Recovery Percentage 1	97.416 %	101.106 %	96.778 %	97.164 %	100.184 %	102.422 %	99.489 %
Concentration RSD	0.6 %	0.6 %	0.7 %	0.9 %	0.4 %	0.0 %	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	0.4894 ppm	0.4822 ppm	0.5027 ppm	9.9911 ppm	0.5013 ppm	0.4829 ppm	0.5049 ppm
Concentration per Run 1	0.4930 ppm	0.4836 ppm	0.5027 ppm	9.9905 ppm	0.5063 ppm	0.4838 ppm	0.5079 ppm
Concentration per Run 2	0.4851 ppm	0.4804 ppm	0.5006 ppm	9.9994 ppm	0.4970 ppm	0.4832 ppm	0.5015 ppm
Concentration per Run 3	0.4901 ppm	0.4825 ppm	0.5047 ppm	9.9835 ppm	0.5006 ppm	0.4816 ppm	0.5053 ppm
Recovery Percentage 1	97.886 %	96.433 %	100.530 %	99.911 %	100.260 %	96.575 %	100.979 %
Concentration RSD	0.8 %	0.3 %	0.4 %	0.1 %	0.9 %	0.2 %	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	0.4820 ppm	5.4394 ppm	0.5144 ppm	0.5211 ppm	0.4852 ppm	0.4841 ppm	0.4887 ppm
Concentration per Run 1	0.4816 ppm	5.4862 ppm	0.5171 ppm	0.5214 ppm	0.4891 ppm	0.4868 ppm	0.4916 ppm
Concentration per Run 2	0.4803 ppm	5.4151 ppm	0.5155 ppm	0.5189 ppm	0.4826 ppm	0.4820 ppm	0.4875 ppm
Concentration per Run 3	0.4840 ppm	5.4169 ppm	0.5107 ppm	0.5230 ppm	0.4838 ppm	0.4837 ppm	0.4871 ppm
Recovery Percentage 1	96.393 %	103.607 %	102.881 %	104.219 %	97.037 %	96.829 %	97.745 %
Concentration RSD	0.4 %	0.7 %	0.6 %	0.4 %	0.7 %	0.5 %	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	0.4911 ppm	101.8009 %	100.4354 %	94.4791 %	97.0624 %	98.9638 %	96.7731 %
Concentration per Run 1	0.4949 ppm	100.8307 %	99.9866 %	94.2553 %	96.5033 %	98.6627 %	96.6423 %
Concentration per Run 2	0.4900 ppm	102.2945 %	101.1651 %	94.1619 %	97.4781 %	99.9382 %	96.6238 %
Concentration per Run 3	0.4883 ppm	102.2777 %	100.1544 %	95.0201 %	97.2058 %	98.2906 %	97.0533 %
Recovery Percentage 1	98.215 %						
Concentration RSD	0.7 %	0.8 %	0.6 %	0.5 %	0.5 %	0.9 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCB
Analysis started at: 12/18/2024 11:28:03 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	-0.0030 ppm	0.0018 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	-0.0013 ppm
Concentration per Run 1	-0.0002 ppm	-0.0034 ppm	0.0011 ppm	-0.0006 ppm	-0.0001 ppm	0.0000 ppm	-0.0018 ppm
Concentration per Run 2	0.0000 ppm	-0.0016 ppm	0.0019 ppm	-0.0008 ppm	0.0000 ppm	0.0000 ppm	-0.0005 ppm
Concentration per Run 3	-0.0002 ppm	-0.0039 ppm	0.0022 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0016 ppm
Recovery Percentage 1	-2.260 %	-3.004 %	35.248 %	-1.533 %	-0.424 %	0.767 %	-1.270 %
Concentration RSD	113.4 %	40.8 %	31.5 %	83.5 %	24.1 %	35.3 %	55.0 %

	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	-0.0001 ppm	-0.0002 ppm	-0.0003 ppm	0.0004 ppm	0.0164 ppm	0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0004 ppm	0.0171 ppm	-0.0001 ppm
Concentration per Run 2	-0.0001 ppm	-0.0002 ppm	-0.0003 ppm	-0.0002 ppm	0.0006 ppm	0.0205 ppm	-0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0005 ppm	0.0003 ppm	0.0117 ppm	0.0004 ppm
Recovery Percentage 1	-0.356 %	-0.721 %	-1.545 %	-3.385 %	0.833 %	0.657 %	1.055 %
Concentration RSD	821.4 %	205.0 %	74.9 %	33.3 %	32.8 %	27.1 %	269.0 %

	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	-0.0002 ppm	0.0000 ppm	0.0046 ppm	0.0152 ppm	0.0004 ppm	0.0002 ppm	0.0031 ppm
Concentration per Run 1	0.0007 ppm	0.0000 ppm	0.0046 ppm	0.0126 ppm	0.0004 ppm	-0.0003 ppm	0.0035 ppm
Concentration per Run 2	0.0002 ppm	0.0000 ppm	0.0044 ppm	0.0156 ppm	0.0004 ppm	0.0006 ppm	0.0025 ppm
Concentration per Run 3	-0.0015 ppm	0.0001 ppm	0.0047 ppm	0.0176 ppm	0.0004 ppm	0.0004 ppm	0.0033 ppm
Recovery Percentage 1	-0.211 %	0.304 %	9.142 %	0.762 %	1.574 %	2.238 %	6.227 %
Concentration RSD	551.2 %	273.7 %	2.6 %	16.5 %	6.3 %	214.8 %	17.0 %

	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	0.0012 ppm	0.0014 ppm	0.0010 ppm	0.0001 ppm	0.0002 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 1	0.0005 ppm	0.0017 ppm	0.0019 ppm	0.0001 ppm	0.0003 ppm	-0.0006 ppm	0.0000 ppm
Concentration per Run 2	0.0015 ppm	0.0015 ppm	0.0017 ppm	0.0001 ppm	0.0003 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 3	0.0016 ppm	0.0009 ppm	-0.0005 ppm	0.0001 ppm	0.0002 ppm	-0.0006 ppm	0.0000 ppm
Recovery Percentage 1	11.803 %	0.273 %	2.075 %	0.744 %	2.448 %	-1.306 %	0.242 %
Concentration RSD	52.1 %	29.8 %	130.1 %	12.3 %	31.0 %	206.3 %	125.5 %

	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	0.0002 ppm	101.6568 %	100.2740 %	96.0091 %	99.4984 %	100.0466 %	98.2937 %
Concentration per Run 1	0.0002 ppm	100.7358 %	101.0354 %	95.8338 %	99.4274 %	100.7956 %	98.2052 %
Concentration per Run 2	0.0001 ppm	101.6575 %	99.0770 %	95.8891 %	99.2178 %	99.3253 %	98.0984 %
Concentration per Run 3	0.0002 ppm	102.5772 %	100.7096 %	96.3044 %	99.8501 %	100.0189 %	98.5775 %
Recovery Percentage 1	3.616 %						
Concentration RSD	26.5 %	0.9 %	1.0 %	0.3 %	0.3 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010580-1 WG2010580
Analysis started at: 12/18/2024 11:33:38 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	-0.0002 ppm	0.0177 ppm	0.0016 ppm	0.0012 ppm	0.0004 ppm	0.0000 ppm	0.0334 ppm
Concentration per Run 1	-0.0002 ppm	0.0203 ppm	0.0014 ppm	0.0005 ppm	0.0004 ppm	0.0000 ppm	0.0335 ppm
Concentration per Run 2	-0.0003 ppm	0.0159 ppm	0.0015 ppm	0.0016 ppm	0.0003 ppm	0.0000 ppm	0.0323 ppm
Concentration per Run 3	-0.0001 ppm	0.0168 ppm	0.0019 ppm	0.0016 ppm	0.0004 ppm	0.0000 ppm	0.0343 ppm
Recovery Percentage 1	-4.336 %	17.657 %	32.059 %	4.044 %	3.649 %	-0.634 %	33.371 %
Concentration RSD	44.2 %	13.1 %	15.5 %	52.4 %	7.7 %	12.9 %	3.1 %

	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	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0168 ppm	0.0792 ppm	0.0019 ppm
Concentration per Run 1	-0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0004 ppm	0.0170 ppm	0.0768 ppm	0.0017 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0162 ppm	0.0766 ppm	0.0017 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0172 ppm	0.0841 ppm	0.0025 ppm
Recovery Percentage 1	-0.934 %	0.300 %	1.004 %	2.264 %	33.575 %	3.167 %	19.420 %
Concentration RSD	55.8 %	586.9 %	258.9 %	61.4 %	3.3 %	5.4 %	22.9 %

	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	0.0051 ppm	0.0002 ppm	0.0018 ppm	**130.9851 ppm**	0.0002 ppm	0.0018 ppm	0.0030 ppm
Concentration per Run 1	0.0059 ppm	0.0002 ppm	0.0015 ppm	131.5148 ppm	0.0006 ppm	0.0012 ppm	0.0024 ppm
Concentration per Run 2	0.0039 ppm	0.0002 ppm	0.0021 ppm	130.4304 ppm	-0.0006 ppm	0.0027 ppm	0.0033 ppm
Concentration per Run 3	0.0055 ppm	0.0002 ppm	0.0017 ppm	131.0101 ppm	0.0007 ppm	0.0015 ppm	0.0033 ppm
Recovery Percentage 1	5.081 %	2.058 %	3.562 %	6,549.256 %	0.847 %	18.041 %	6.011 %
Concentration RSD	20.5 %	14.0 %	17.2 %	**0.4 %**	334.9 %	43.8 %	17.6 %

	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	0.0020 ppm	0.0494 ppm	0.0015 ppm	0.0002 ppm	0.0008 ppm	-0.0016 ppm	-0.0001 ppm
Concentration per Run 1	0.0025 ppm	0.0525 ppm	0.0014 ppm	0.0002 ppm	0.0010 ppm	-0.0014 ppm	-0.0001 ppm
Concentration per Run 2	0.0026 ppm	0.0438 ppm	0.0003 ppm	0.0003 ppm	0.0008 ppm	-0.0016 ppm	0.0000 ppm
Concentration per Run 3	0.0009 ppm	0.0520 ppm	0.0028 ppm	0.0002 ppm	0.0007 ppm	-0.0016 ppm	-0.0001 ppm
Recovery Percentage 1	20.109 %	9.886 %	2.988 %	2.072 %	8.340 %	-7.852 %	-0.619 %
Concentration RSD	46.2 %	9.9 %	84.1 %	19.4 %	20.1 %	7.0 %	37.2 %

	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	99.4463 %	98.4589 %	87.8684 %	92.7578 %	96.0666 %	92.7033 %
Concentration per Run 1	0.0011 ppm	99.0099 %	97.4666 %	87.8043 %	92.4084 %	95.4193 %	92.6375 %
Concentration per Run 2	0.0009 ppm	99.1688 %	99.0038 %	87.9890 %	92.2012 %	96.5262 %	92.7226 %
Concentration per Run 3	0.0009 ppm	100.1601 %	98.9064 %	87.8119 %	93.6639 %	96.2542 %	92.7498 %
Recovery Percentage 1	19.076 %						
Concentration RSD	10.9 %	0.6 %	0.9 %	0.1 %	0.9 %	0.6 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010580-2 WG2010580
Analysis started at: 12/18/2024 11:38:17 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	0.0457 ppm	1.9217 ppm	0.1131 ppm	0.8916 ppm	1.9255 ppm	0.0494 ppm	9.8271 ppm
Concentration per Run 1	0.0457 ppm	1.9317 ppm	0.1121 ppm	0.8909 ppm	1.9349 ppm	0.0497 ppm	9.9193 ppm
Concentration per Run 2	0.0459 ppm	1.9173 ppm	0.1150 ppm	0.8928 ppm	1.9220 ppm	0.0492 ppm	9.7533 ppm
Concentration per Run 3	0.0454 ppm	1.9161 ppm	0.1121 ppm	0.8911 ppm	1.9196 ppm	0.0494 ppm	9.8087 ppm
Concentration RSD	0.5 %	0.5 %	1.5 %	0.1 %	0.4 %	0.5 %	0.9 %

	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	0.0486 ppm	0.4809 ppm	0.1901 ppm	0.2428 ppm	0.9963 ppm	9.9048 ppm	0.0015 ppm
Concentration per Run 1	0.0487 ppm	0.4831 ppm	0.1903 ppm	0.2425 ppm	1.0031 ppm	9.9389 ppm	0.0021 ppm
Concentration per Run 2	0.0487 ppm	0.4822 ppm	0.1909 ppm	0.2442 ppm	0.9895 ppm	9.8870 ppm	0.0012 ppm
Concentration per Run 3	0.0484 ppm	0.4774 ppm	0.1892 ppm	0.2418 ppm	0.9964 ppm	9.8885 ppm	0.0012 ppm
Concentration RSD	0.4 %	0.6 %	0.4 %	0.5 %	0.7 %	0.3 %	33.7 %

	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	9.4277 ppm	0.4883 ppm	1.0002 ppm	10.2433 ppm	0.4811 ppm	0.5122 ppm	0.4745 ppm
Concentration per Run 1	9.4541 ppm	0.4913 ppm	0.9961 ppm	10.2965 ppm	0.4822 ppm	0.5110 ppm	0.4771 ppm
Concentration per Run 2	9.4649 ppm	0.4861 ppm	1.0007 ppm	10.1912 ppm	0.4808 ppm	0.5137 ppm	0.4748 ppm
Concentration per Run 3	9.3642 ppm	0.4875 ppm	1.0037 ppm	10.2421 ppm	0.4805 ppm	0.5118 ppm	0.4718 ppm
Concentration RSD	0.6 %	0.5 %	0.4 %	0.5 %	0.2 %	0.3 %	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	0.1084 ppm	1.3181 ppm	0.9443 ppm	0.9741 ppm	0.9510 ppm	0.1132 ppm	0.4912 ppm
Concentration per Run 1	0.1096 ppm	1.3177 ppm	0.9436 ppm	0.9776 ppm	0.9508 ppm	0.1130 ppm	0.4922 ppm
Concentration per Run 2	0.1088 ppm	1.3249 ppm	0.9485 ppm	0.9715 ppm	0.9545 ppm	0.1123 ppm	0.4926 ppm
Concentration per Run 3	0.1067 ppm	1.3116 ppm	0.9410 ppm	0.9732 ppm	0.9478 ppm	0.1142 ppm	0.4889 ppm
Concentration RSD	1.4 %	0.5 %	0.4 %	0.3 %	0.4 %	0.8 %	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	0.4736 ppm	101.8279 %	100.4099 %	89.6646 %	95.8105 %	98.0858 %	94.5841 %
Concentration per Run 1	0.4762 ppm	101.2697 %	99.5532 %	90.0828 %	95.6971 %	97.3969 %	94.9702 %
Concentration per Run 2	0.4737 ppm	101.6087 %	101.4234 %	89.2006 %	95.1581 %	99.2339 %	94.1077 %
Concentration per Run 3	0.4709 ppm	102.6054 %	100.2532 %	89.7105 %	96.5763 %	97.6267 %	94.6744 %
Concentration RSD	0.6 %	0.7 %	0.9 %	0.5 %	0.7 %	1.0 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472694-02 WG2010580
Analysis started at: 12/18/2024 11:42:42 AM
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	-0.0002 ppm	0.0782 ppm	0.0029 ppm	0.0034 ppm	0.0693 ppm	0.0000 ppm	1.2497 ppm
Concentration per Run 1	-0.0001 ppm	0.0777 ppm	0.0025 ppm	0.0034 ppm	0.0695 ppm	0.0000 ppm	1.2530 ppm
Concentration per Run 2	-0.0001 ppm	0.0803 ppm	0.0030 ppm	0.0036 ppm	0.0693 ppm	0.0000 ppm	1.2574 ppm
Concentration per Run 3	-0.0003 ppm	0.0767 ppm	0.0030 ppm	0.0033 ppm	0.0691 ppm	0.0000 ppm	1.2389 ppm
Concentration RSD	72.4 %	2.4 %	10.3 %	3.1 %	0.3 %	98.9 %	0.8 %

	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	0.0009 ppm	0.1509 ppm	0.9344 ppm	0.0079 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	0.0004 ppm	0.0009 ppm	0.1510 ppm	0.9553 ppm	0.0084 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0007 ppm	0.1510 ppm	0.9222 ppm	0.0079 ppm
Concentration per Run 3	-0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0011 ppm	0.1507 ppm	0.9256 ppm	0.0075 ppm
Concentration RSD	47.1 %	142.3 %	24.2 %	21.5 %	0.1 %	1.9 %	6.2 %

	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	0.0682 ppm	0.0084 ppm	0.0068 ppm	133.4226 ppm	0.0004 ppm	0.0105 ppm	0.0012 ppm
Concentration per Run 1	0.0698 ppm	0.0085 ppm	0.0070 ppm	134.2120 ppm	0.0003 ppm	0.0111 ppm	0.0020 ppm
Concentration per Run 2	0.0680 ppm	0.0085 ppm	0.0068 ppm	132.3996 ppm	0.0004 ppm	0.0096 ppm	0.0016 ppm
Concentration per Run 3	0.0669 ppm	0.0084 ppm	0.0067 ppm	133.6562 ppm	0.0005 ppm	0.0110 ppm	0.0001 ppm
Concentration RSD	2.1 %	0.9 %	2.7 %	0.7 %	21.3 %	7.8 %	82.0 %

	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	0.0019 ppm	0.1392 ppm	0.0018 ppm	0.0129 ppm	0.0006 ppm	-0.0009 ppm	0.0007 ppm
Concentration per Run 1	0.0021 ppm	0.1417 ppm	0.0012 ppm	0.0129 ppm	0.0008 ppm	-0.0008 ppm	0.0008 ppm
Concentration per Run 2	0.0021 ppm	0.1361 ppm	0.0020 ppm	0.0129 ppm	0.0006 ppm	-0.0009 ppm	0.0008 ppm
Concentration per Run 3	0.0015 ppm	0.1398 ppm	0.0023 ppm	0.0128 ppm	0.0005 ppm	-0.0010 ppm	0.0006 ppm
Concentration RSD	20.4 %	2.0 %	31.0 %	0.6 %	22.7 %	13.8 %	16.5 %

	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	0.0498 ppm	98.1603 %	98.7090 %	85.3168 %	91.6123 %	96.0636 %	91.8211 %
Concentration per Run 1	0.0503 ppm	97.9000 %	99.0003 %	84.4505 %	91.8231 %	96.2912 %	91.4296 %
Concentration per Run 2	0.0494 ppm	98.5066 %	97.6090 %	85.7870 %	92.2113 %	95.2198 %	91.9954 %
Concentration per Run 3	0.0498 ppm	98.0744 %	99.5177 %	85.7128 %	90.8026 %	96.6797 %	92.0384 %
Concentration RSD	0.9 %	0.3 %	1.0 %	0.9 %	0.8 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010580-3 WG2010580
Analysis started at: 12/18/2024 11:47:08 AM
Rack 1
Vial 45
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	0.0464 ppm	2.0039 ppm	0.1194 ppm	0.8974 ppm	1.9835 ppm	0.0501 ppm	11.0838 ppm
Concentration per Run 1	0.0467 ppm	2.0072 ppm	0.1176 ppm	0.8998 ppm	1.9803 ppm	0.0499 ppm	11.0280 ppm
Concentration per Run 2	0.0467 ppm	1.9932 ppm	0.1197 ppm	0.9027 ppm	1.9848 ppm	0.0501 ppm	11.0934 ppm
Concentration per Run 3	0.0459 ppm	2.0113 ppm	0.1208 ppm	0.8898 ppm	1.9854 ppm	0.0504 ppm	11.1300 ppm
Concentration RSD	1.0 %	0.5 %	1.4 %	0.7 %	0.1 %	0.4 %	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	0.0493 ppm	0.4731 ppm	0.1899 ppm	0.2440 ppm	1.1397 ppm	10.9693 ppm	0.0077 ppm
Concentration per Run 1	0.0498 ppm	0.4769 ppm	0.1905 ppm	0.2445 ppm	1.1367 ppm	11.0516 ppm	0.0074 ppm
Concentration per Run 2	0.0490 ppm	0.4717 ppm	0.1902 ppm	0.2453 ppm	1.1364 ppm	10.9416 ppm	0.0083 ppm
Concentration per Run 3	0.0490 ppm	0.4707 ppm	0.1891 ppm	0.2422 ppm	1.1460 ppm	10.9148 ppm	0.0074 ppm
Concentration RSD	0.9 %	0.7 %	0.4 %	0.7 %	0.5 %	0.7 %	7.0 %

	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	9.1328 ppm	0.4932 ppm	1.0116 ppm	140.2181 ppm	0.4760 ppm	0.5296 ppm	0.4740 ppm
Concentration per Run 1	9.1804 ppm	0.4910 ppm	1.0130 ppm	140.8950 ppm	0.4762 ppm	0.5282 ppm	0.4736 ppm
Concentration per Run 2	9.1377 ppm	0.4936 ppm	1.0104 ppm	139.5124 ppm	0.4777 ppm	0.5302 ppm	0.4761 ppm
Concentration per Run 3	9.0802 ppm	0.4950 ppm	1.0115 ppm	140.2469 ppm	0.4742 ppm	0.5305 ppm	0.4722 ppm
Concentration RSD	0.6 %	0.4 %	0.1 %	0.5 %	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	0.1162 ppm	1.4668 ppm	0.9295 ppm	0.9839 ppm	0.9607 ppm	0.1116 ppm	0.4962 ppm
Concentration per Run 1	0.1164 ppm	1.4679 ppm	0.9329 ppm	0.9811 ppm	0.9632 ppm	0.1119 ppm	0.4981 ppm
Concentration per Run 2	0.1175 ppm	1.4754 ppm	0.9330 ppm	0.9843 ppm	0.9635 ppm	0.1115 ppm	0.4972 ppm
Concentration per Run 3	0.1148 ppm	1.4573 ppm	0.9224 ppm	0.9862 ppm	0.9553 ppm	0.1115 ppm	0.4932 ppm
Concentration RSD	1.2 %	0.6 %	0.7 %	0.3 %	0.5 %	0.2 %	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	0.5351 ppm	97.3904 %	98.7098 %	82.2039 %	90.6598 %	95.9820 %	90.8614 %
Concentration per Run 1	0.5366 ppm	96.9996 %	99.1028 %	82.5145 %	90.4363 %	96.3360 %	91.1822 %
Concentration per Run 2	0.5355 ppm	96.9816 %	98.6152 %	81.6726 %	90.0698 %	95.9562 %	90.3898 %
Concentration per Run 3	0.5333 ppm	98.1900 %	98.4113 %	82.4245 %	91.4732 %	95.6537 %	91.0122 %
Concentration RSD	0.3 %	0.7 %	0.4 %	0.6 %	0.8 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010580-4 WG2010580
Analysis started at: 12/18/2024 11:51:34 AM
Rack 1
Vial 46
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	0.0755 ppm	0.0017 ppm	0.0033 ppm	0.0678 ppm	0.0000 ppm	1.2199 ppm
Concentration per Run 1	-0.0003 ppm	0.0762 ppm	0.0012 ppm	0.0034 ppm	0.0677 ppm	0.0000 ppm	1.2225 ppm
Concentration per Run 2	-0.0002 ppm	0.0738 ppm	0.0019 ppm	0.0031 ppm	0.0679 ppm	0.0000 ppm	1.2257 ppm
Concentration per Run 3	-0.0002 ppm	0.0766 ppm	0.0022 ppm	0.0033 ppm	0.0679 ppm	0.0001 ppm	1.2115 ppm
Concentration RSD	25.0 %	2.0 %	29.2 %	4.2 %	0.2 %	344.9 %	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	-0.0001 ppm	0.0004 ppm	0.0002 ppm	0.0008 ppm	0.1496 ppm	0.9225 ppm	0.0076 ppm
Concentration per Run 1	0.0000 ppm	0.0005 ppm	0.0001 ppm	0.0007 ppm	0.1498 ppm	0.9247 ppm	0.0078 ppm
Concentration per Run 2	0.0000 ppm	0.0006 ppm	0.0003 ppm	0.0007 ppm	0.1509 ppm	0.9244 ppm	0.0074 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0009 ppm	0.1481 ppm	0.9184 ppm	0.0077 ppm
Concentration RSD	132.9 %	39.2 %	56.2 %	13.1 %	0.9 %	0.4 %	3.3 %

	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	0.0658 ppm	0.0084 ppm	0.0064 ppm	132.0763 ppm	0.0007 ppm	0.0104 ppm	0.0018 ppm
Concentration per Run 1	0.0660 ppm	0.0082 ppm	0.0067 ppm	131.4289 ppm	0.0012 ppm	0.0103 ppm	0.0005 ppm
Concentration per Run 2	0.0658 ppm	0.0085 ppm	0.0064 ppm	131.7718 ppm	0.0009 ppm	0.0110 ppm	0.0023 ppm
Concentration per Run 3	0.0657 ppm	0.0084 ppm	0.0062 ppm	133.0281 ppm	0.0001 ppm	0.0099 ppm	0.0025 ppm
Concentration RSD	0.2 %	2.2 %	4.2 %	0.6 %	77.2 %	5.3 %	64.2 %

	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	0.1357 ppm	0.0011 ppm	0.0127 ppm	0.0006 ppm	-0.0010 ppm	0.0007 ppm
Concentration per Run 1	0.0028 ppm	0.1360 ppm	0.0010 ppm	0.0127 ppm	0.0008 ppm	-0.0014 ppm	0.0006 ppm
Concentration per Run 2	-0.0004 ppm	0.1351 ppm	0.0014 ppm	0.0127 ppm	0.0006 ppm	0.0003 ppm	0.0007 ppm
Concentration per Run 3	0.0021 ppm	0.1359 ppm	0.0009 ppm	0.0127 ppm	0.0005 ppm	-0.0019 ppm	0.0007 ppm
Concentration RSD	110.8 %	0.3 %	26.5 %	0.1 %	20.9 %	113.7 %	5.1 %

	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	0.0482 ppm	97.5154 %	98.3561 %	86.0229 %	91.2873 %	95.9173 %	91.7736 %
Concentration per Run 1	0.0483 ppm	96.8541 %	98.5225 %	85.2766 %	90.9834 %	96.3190 %	91.4187 %
Concentration per Run 2	0.0485 ppm	97.9899 %	97.4596 %	86.3313 %	91.8890 %	95.0328 %	92.1150 %
Concentration per Run 3	0.0476 ppm	97.7022 %	99.0863 %	86.4608 %	90.9895 %	96.4002 %	91.7870 %
Concentration RSD	1.0 %	0.6 %	0.8 %	0.8 %	0.6 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472694-03 WG2010580
Analysis started at: 12/18/2024 11:56:00 AM
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	-0.0003 ppm	0.0001 ppm	0.0022 ppm	0.0110 ppm	0.0143 ppm	0.0000 ppm	61.9631 ppm
Concentration per Run 1	-0.0003 ppm	0.0021 ppm	0.0013 ppm	0.0107 ppm	0.0144 ppm	0.0000 ppm	62.1932 ppm
Concentration per Run 2	-0.0002 ppm	-0.0001 ppm	0.0021 ppm	0.0111 ppm	0.0143 ppm	0.0000 ppm	62.0841 ppm
Concentration per Run 3	-0.0002 ppm	-0.0016 ppm	0.0032 ppm	0.0110 ppm	0.0142 ppm	0.0000 ppm	61.6120 ppm
Concentration RSD	16.4 %	1,880.6 %	42.6 %	1.9 %	0.6 %	145.9 %	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	-0.0004 ppm	0.0007 ppm	0.0003 ppm	0.0015 ppm	0.0151 ppm	1.0946 ppm	0.0059 ppm
Concentration per Run 1	-0.0004 ppm	0.0006 ppm	0.0004 ppm	0.0016 ppm	0.0137 ppm	1.1013 ppm	0.0065 ppm
Concentration per Run 2	-0.0004 ppm	0.0011 ppm	0.0001 ppm	0.0016 ppm	0.0147 ppm	1.0817 ppm	0.0056 ppm
Concentration per Run 3	-0.0004 ppm	0.0006 ppm	0.0006 ppm	0.0014 ppm	0.0168 ppm	1.1007 ppm	0.0056 ppm
Concentration RSD	5.1 %	39.1 %	75.3 %	8.2 %	10.5 %	1.0 %	9.1 %

	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	3.0284 ppm	0.0236 ppm	0.0022 ppm	127.5085 ppm	0.0020 ppm	0.0000 ppm	0.0008 ppm
Concentration per Run 1	3.0240 ppm	0.0238 ppm	0.0022 ppm	127.7572 ppm	0.0020 ppm	0.0001 ppm	-0.0006 ppm
Concentration per Run 2	3.0331 ppm	0.0235 ppm	0.0022 ppm	126.3755 ppm	0.0020 ppm	-0.0004 ppm	0.0007 ppm
Concentration per Run 3	3.0281 ppm	0.0235 ppm	0.0022 ppm	128.3929 ppm	0.0021 ppm	0.0003 ppm	0.0024 ppm
Concentration RSD	0.2 %	0.5 %	0.7 %	0.8 %	4.5 %	4,837.6 %	180.8 %

	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	0.0006 ppm	3.8262 ppm	0.0014 ppm	0.3715 ppm	0.0001 ppm	-0.0012 ppm	0.0005 ppm
Concentration per Run 1	0.0004 ppm	3.8309 ppm	0.0014 ppm	0.3731 ppm	0.0001 ppm	-0.0007 ppm	0.0005 ppm
Concentration per Run 2	0.0006 ppm	3.8242 ppm	0.0007 ppm	0.3708 ppm	0.0000 ppm	-0.0018 ppm	0.0004 ppm
Concentration per Run 3	0.0010 ppm	3.8235 ppm	0.0022 ppm	0.3707 ppm	0.0003 ppm	-0.0012 ppm	0.0005 ppm
Concentration RSD	51.4 %	0.1 %	53.5 %	0.4 %	93.4 %	42.2 %	11.7 %

	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	0.0115 ppm	96.4067 %	98.2158 %	82.7652 %	89.5603 %	94.7864 %	89.5053 %
Concentration per Run 1	0.0117 ppm	95.9902 %	97.9788 %	82.9959 %	89.6680 %	94.4842 %	89.6636 %
Concentration per Run 2	0.0115 ppm	96.3091 %	97.4182 %	82.3340 %	89.1938 %	94.3247 %	89.1189 %
Concentration per Run 3	0.0114 ppm	96.9209 %	99.2503 %	82.9659 %	89.8190 %	95.5504 %	89.7336 %
Concentration RSD	1.3 %	0.5 %	1.0 %	0.5 %	0.4 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472729-01 WG2010580
Analysis started at: 12/18/2024 12:00:25 PM
Rack 1
Vial 50
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	0.0047 ppm	0.0028 ppm	0.0077 ppm	0.0637 ppm	0.0000 ppm	48.3305 ppm
Concentration per Run 1	-0.0003 ppm	0.0023 ppm	0.0038 ppm	0.0070 ppm	0.0635 ppm	0.0001 ppm	48.1571 ppm
Concentration per Run 2	-0.0004 ppm	0.0064 ppm	0.0021 ppm	0.0078 ppm	0.0642 ppm	0.0000 ppm	48.4985 ppm
Concentration per Run 3	-0.0002 ppm	0.0054 ppm	0.0025 ppm	0.0083 ppm	0.0635 ppm	0.0000 ppm	48.3359 ppm
Concentration RSD	37.1 %	45.8 %	33.0 %	9.0 %	0.6 %	27.2 %	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	0.0017 ppm	-0.0002 ppm	0.0016 ppm	0.0044 ppm	0.3811 ppm	0.0024 ppm
Concentration per Run 1	-0.0001 ppm	0.0016 ppm	-0.0002 ppm	0.0016 ppm	0.0042 ppm	0.3883 ppm	0.0022 ppm
Concentration per Run 2	-0.0002 ppm	0.0016 ppm	-0.0002 ppm	0.0017 ppm	0.0045 ppm	0.3770 ppm	0.0024 ppm
Concentration per Run 3	-0.0003 ppm	0.0020 ppm	-0.0001 ppm	0.0015 ppm	0.0045 ppm	0.3779 ppm	0.0025 ppm
Concentration RSD	36.5 %	14.6 %	41.6 %	6.1 %	3.2 %	1.6 %	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	1.6369 ppm	0.1821 ppm	0.0012 ppm	129.5650 ppm	0.0073 ppm	0.0008 ppm	-0.0003 ppm
Concentration per Run 1	1.6424 ppm	0.1813 ppm	0.0012 ppm	129.2055 ppm	0.0073 ppm	0.0012 ppm	-0.0019 ppm
Concentration per Run 2	1.6364 ppm	0.1831 ppm	0.0011 ppm	129.7007 ppm	0.0075 ppm	0.0004 ppm	-0.0002 ppm
Concentration per Run 3	1.6318 ppm	0.1820 ppm	0.0013 ppm	129.7888 ppm	0.0071 ppm	0.0008 ppm	0.0011 ppm
Concentration RSD	0.3 %	0.5 %	7.4 %	0.2 %	2.7 %	54.3 %	459.2 %

	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	0.0010 ppm	0.1122 ppm	0.0012 ppm	0.3477 ppm	0.0000 ppm	-0.0015 ppm	-0.0001 ppm
Concentration per Run 1	0.0023 ppm	0.1119 ppm	0.0012 ppm	0.3476 ppm	0.0000 ppm	-0.0009 ppm	-0.0002 ppm
Concentration per Run 2	-0.0012 ppm	0.1124 ppm	0.0016 ppm	0.3497 ppm	0.0001 ppm	-0.0014 ppm	-0.0001 ppm
Concentration per Run 3	0.0017 ppm	0.1122 ppm	0.0009 ppm	0.3459 ppm	0.0000 ppm	-0.0021 ppm	0.0000 ppm
Concentration RSD	195.9 %	0.2 %	30.6 %	0.5 %	306.3 %	39.4 %	59.7 %

	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	0.0039 ppm	96.6148 %	98.2679 %	83.5154 %	90.7285 %	96.0798 %	90.7246 %
Concentration per Run 1	0.0039 ppm	96.2627 %	98.6418 %	83.1596 %	90.5950 %	96.0655 %	90.2866 %
Concentration per Run 2	0.0039 ppm	96.8708 %	97.8883 %	83.9683 %	91.1684 %	96.1544 %	91.1561 %
Concentration per Run 3	0.0039 ppm	96.7108 %	98.2736 %	83.4181 %	90.4222 %	96.0196 %	90.7309 %
Concentration RSD	1.2 %	0.3 %	0.4 %	0.5 %	0.4 %	0.1 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472862-01 WG2010580
Analysis started at: 12/18/2024 12:04:50 PM
Rack 1
Vial 51
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	0.0261 ppm	0.0020 ppm	0.0087 ppm	0.0160 ppm	0.0000 ppm	2.4146 ppm
Concentration per Run 1	-0.0002 ppm	0.0260 ppm	0.0024 ppm	0.0087 ppm	0.0158 ppm	0.0000 ppm	2.4123 ppm
Concentration per Run 2	-0.0003 ppm	0.0235 ppm	0.0025 ppm	0.0080 ppm	0.0161 ppm	0.0000 ppm	2.4157 ppm
Concentration per Run 3	-0.0001 ppm	0.0288 ppm	0.0013 ppm	0.0094 ppm	0.0161 ppm	0.0000 ppm	2.4158 ppm
Concentration RSD	53.1 %	10.2 %	32.4 %	7.9 %	1.1 %	73.0 %	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	0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0168 ppm	0.2422 ppm	0.0024 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0003 ppm	0.0166 ppm	0.2345 ppm	0.0021 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	0.0000 ppm	-0.0002 ppm	0.0181 ppm	0.2504 ppm	0.0022 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	0.0002 ppm	-0.0001 ppm	0.0158 ppm	0.2417 ppm	0.0027 ppm
Concentration RSD	28.7 %	194.2 %	69.2 %	1,053.0 %	7.0 %	3.3 %	12.1 %

	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	0.5148 ppm	0.0077 ppm	0.0006 ppm	127.4493 ppm	0.0005 ppm	0.1062 ppm	0.0028 ppm
Concentration per Run 1	0.5160 ppm	0.0076 ppm	0.0007 ppm	126.4775 ppm	0.0006 ppm	0.1067 ppm	0.0049 ppm
Concentration per Run 2	0.5142 ppm	0.0077 ppm	0.0009 ppm	127.2733 ppm	0.0002 ppm	0.1058 ppm	0.0013 ppm
Concentration per Run 3	0.5141 ppm	0.0076 ppm	0.0003 ppm	128.5971 ppm	0.0006 ppm	0.1060 ppm	0.0023 ppm
Concentration RSD	0.2 %	0.1 %	47.9 %	0.8 %	57.8 %	0.5 %	65.9 %

	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	0.0022 ppm	0.1307 ppm	0.0013 ppm	0.0053 ppm	0.0006 ppm	-0.0012 ppm	0.0000 ppm
Concentration per Run 1	0.0005 ppm	0.1334 ppm	0.0011 ppm	0.0053 ppm	0.0005 ppm	-0.0011 ppm	0.0002 ppm
Concentration per Run 2	0.0039 ppm	0.1284 ppm	0.0014 ppm	0.0053 ppm	0.0006 ppm	-0.0009 ppm	-0.0001 ppm
Concentration per Run 3	0.0023 ppm	0.1303 ppm	0.0014 ppm	0.0054 ppm	0.0006 ppm	-0.0014 ppm	-0.0001 ppm
Concentration RSD	73.9 %	1.9 %	12.0 %	0.7 %	10.8 %	20.7 %	642.7 %

	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	0.0044 ppm	97.7642 %	99.3407 %	85.3219 %	90.9090 %	95.9756 %	91.3644 %
Concentration per Run 1	0.0044 ppm	97.5238 %	99.9676 %	85.3378 %	90.9261 %	96.1414 %	91.3836 %
Concentration per Run 2	0.0042 ppm	97.9317 %	98.9711 %	85.3413 %	91.1922 %	95.5102 %	91.5468 %
Concentration per Run 3	0.0045 ppm	97.8370 %	99.0833 %	85.2868 %	90.6087 %	96.2752 %	91.1630 %
Concentration RSD	3.3 %	0.2 %	0.5 %	0.0 %	0.3 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472862-02 WG2010580
Analysis started at: 12/18/2024 12:09:15 PM
Rack 1
Vial 52
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	0.0137 ppm	0.0020 ppm	0.0041 ppm	0.0172 ppm	0.0000 ppm	2.1782 ppm
Concentration per Run 1	-0.0003 ppm	0.0150 ppm	0.0004 ppm	0.0056 ppm	0.0171 ppm	0.0000 ppm	2.1729 ppm
Concentration per Run 2	-0.0002 ppm	0.0135 ppm	0.0024 ppm	0.0032 ppm	0.0172 ppm	0.0001 ppm	2.1766 ppm
Concentration per Run 3	-0.0002 ppm	0.0126 ppm	0.0031 ppm	0.0035 ppm	0.0172 ppm	0.0000 ppm	2.1851 ppm
Concentration RSD	26.1 %	9.0 %	70.1 %	31.8 %	0.4 %	107.7 %	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	-0.0001 ppm	-0.0002 ppm	0.0066 ppm	0.2142 ppm	0.0026 ppm
Concentration per Run 1	0.0000 ppm	-0.0006 ppm	0.0002 ppm	-0.0003 ppm	0.0064 ppm	0.2242 ppm	0.0026 ppm
Concentration per Run 2	-0.0001 ppm	0.0005 ppm	-0.0002 ppm	0.0000 ppm	0.0062 ppm	0.2162 ppm	0.0030 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0003 ppm	-0.0002 ppm	0.0073 ppm	0.2023 ppm	0.0021 ppm
Concentration RSD	177.4 %	15,694.5 %	302.2 %	98.8 %	9.2 %	5.2 %	18.5 %

	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	0.5373 ppm	0.0031 ppm	0.0004 ppm	124.8471 ppm	0.0004 ppm	0.0010 ppm	-0.0007 ppm
Concentration per Run 1	0.5360 ppm	0.0031 ppm	0.0004 ppm	124.3225 ppm	0.0005 ppm	0.0004 ppm	-0.0009 ppm
Concentration per Run 2	0.5389 ppm	0.0030 ppm	0.0004 ppm	126.0750 ppm	0.0001 ppm	0.0011 ppm	-0.0010 ppm
Concentration per Run 3	0.5371 ppm	0.0031 ppm	0.0005 ppm	124.1440 ppm	0.0006 ppm	0.0016 ppm	-0.0001 ppm
Concentration RSD	0.3 %	1.6 %	14.4 %	0.9 %	57.9 %	62.2 %	71.6 %

	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	0.0016 ppm	0.0905 ppm	0.0013 ppm	0.0067 ppm	0.0002 ppm	-0.0010 ppm	-0.0001 ppm
Concentration per Run 1	0.0013 ppm	0.0898 ppm	0.0013 ppm	0.0067 ppm	0.0002 ppm	-0.0011 ppm	0.0001 ppm
Concentration per Run 2	0.0014 ppm	0.0909 ppm	0.0019 ppm	0.0067 ppm	0.0002 ppm	-0.0006 ppm	-0.0003 ppm
Concentration per Run 3	0.0020 ppm	0.0909 ppm	0.0009 ppm	0.0067 ppm	0.0003 ppm	-0.0012 ppm	0.0000 ppm
Concentration RSD	23.4 %	0.8 %	40.1 %	0.3 %	7.8 %	33.6 %	241.4 %

	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	0.0017 ppm	98.2596 %	99.1354 %	85.6978 %	91.6611 %	96.0923 %	91.3236 %
Concentration per Run 1	0.0016 ppm	98.4022 %	99.3727 %	85.6714 %	92.3115 %	96.0469 %	91.5560 %
Concentration per Run 2	0.0016 ppm	97.7975 %	99.0926 %	85.8294 %	91.1973 %	96.0742 %	91.4598 %
Concentration per Run 3	0.0019 ppm	98.5790 %	98.9409 %	85.5926 %	91.4744 %	96.1557 %	90.9549 %
Concentration RSD	9.4 %	0.4 %	0.2 %	0.1 %	0.6 %	0.1 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCV
Analysis started at: 12/18/2024 12:13:40 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	0.4763 ppm	0.4704 ppm	0.4724 ppm	0.4796 ppm	0.4857 ppm	0.5017 ppm	0.4892 ppm
Concentration per Run 1	0.4778 ppm	0.4672 ppm	0.4789 ppm	0.4820 ppm	0.4845 ppm	0.5013 ppm	0.4912 ppm
Concentration per Run 2	0.4764 ppm	0.4702 ppm	0.4813 ppm	0.4794 ppm	0.4836 ppm	0.5016 ppm	0.4869 ppm
Concentration per Run 3	0.4746 ppm	0.4737 ppm	0.4571 ppm	0.4774 ppm	0.4890 ppm	0.5022 ppm	0.4896 ppm
Recovery Percentage 1	95.257 %	94.077 %	94.482 %	95.921 %	97.143 %	100.342 %	97.840 %
Concentration RSD	0.3 %	0.7 %	2.8 %	0.5 %	0.6 %	0.1 %	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	0.4894 ppm	0.5038 ppm	0.4837 ppm	0.4854 ppm	0.4992 ppm	5.1084 ppm	0.4983 ppm
Concentration per Run 1	0.4927 ppm	0.5055 ppm	0.4864 ppm	0.4864 ppm	0.4969 ppm	5.1023 ppm	0.4962 ppm
Concentration per Run 2	0.4879 ppm	0.5038 ppm	0.4828 ppm	0.4870 ppm	0.5012 ppm	5.1076 ppm	0.5013 ppm
Concentration per Run 3	0.4876 ppm	0.5021 ppm	0.4818 ppm	0.4829 ppm	0.4993 ppm	5.1153 ppm	0.4973 ppm
Recovery Percentage 1	97.881 %	100.764 %	96.732 %	97.085 %	99.831 %	102.168 %	99.654 %
Concentration RSD	0.6 %	0.3 %	0.5 %	0.5 %	0.4 %	0.1 %	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	0.4876 ppm	0.4805 ppm	0.4910 ppm	10.1199 ppm	0.5012 ppm	0.4748 ppm	0.4949 ppm
Concentration per Run 1	0.4898 ppm	0.4806 ppm	0.4897 ppm	10.1327 ppm	0.5033 ppm	0.4865 ppm	0.4955 ppm
Concentration per Run 2	0.4879 ppm	0.4794 ppm	0.4912 ppm	10.0478 ppm	0.5004 ppm	0.4849 ppm	0.4942 ppm
Concentration per Run 3	0.4853 ppm	0.4814 ppm	0.4921 ppm	10.1793 ppm	0.5000 ppm	0.4529 ppm	0.4952 ppm
Recovery Percentage 1	97.527 %	96.095 %	98.201 %	101.199 %	100.248 %	94.951 %	98.989 %
Concentration RSD	0.5 %	0.2 %	0.2 %	0.7 %	0.4 %	4.0 %	0.1 %

	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	0.4796 ppm	5.4374 ppm	0.5062 ppm	0.5185 ppm	0.4847 ppm	0.4762 ppm	0.4888 ppm
Concentration per Run 1	0.4861 ppm	5.4476 ppm	0.5039 ppm	0.5176 ppm	0.4871 ppm	0.4893 ppm	0.4922 ppm
Concentration per Run 2	0.4902 ppm	5.4384 ppm	0.5084 ppm	0.5177 ppm	0.4850 ppm	0.4880 ppm	0.4881 ppm
Concentration per Run 3	0.4626 ppm	5.4262 ppm	0.5062 ppm	0.5202 ppm	0.4819 ppm	0.4514 ppm	0.4861 ppm
Recovery Percentage 1	95.922 %	103.569 %	101.237 %	103.700 %	96.936 %	95.247 %	97.764 %
Concentration RSD	3.1 %	0.2 %	0.4 %	0.3 %	0.5 %	4.5 %	0.6 %

	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	0.4916 ppm	102.2548 %	101.1283 %	96.7939 %	96.9884 %	98.6578 %	98.2292 %
Concentration per Run 1	0.4935 ppm	101.7065 %	101.2922 %	94.6740 %	96.7609 %	98.5598 %	96.8430 %
Concentration per Run 2	0.4916 ppm	102.2101 %	101.0515 %	94.6011 %	96.9154 %	98.7163 %	96.6391 %
Concentration per Run 3	0.4898 ppm	102.8478 %	101.0411 %	101.1067 %	97.2888 %	98.6974 %	101.2054 %
Recovery Percentage 1	98.327 %						
Concentration RSD	0.4 %	0.6 %	0.1 %	3.9 %	0.3 %	0.1 %	2.6 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCB
Analysis started at: 12/18/2024 12:18:06 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	-0.0036 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0009 ppm
Concentration per Run 1	-0.0002 ppm	-0.0038 ppm	0.0008 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0016 ppm
Concentration per Run 2	-0.0001 ppm	-0.0042 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 3	-0.0003 ppm	-0.0027 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm
Recovery Percentage 1	-4.020 %	-3.571 %	7.630 %	-0.022 %	0.246 %	0.482 %	0.893 %
Concentration RSD	60.5 %	21.3 %	133.1 %	1,807.4 %	30.6 %	69.4 %	86.4 %

	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	0.0001 ppm	0.0000 ppm	-0.0004 ppm	0.0009 ppm	0.0207 ppm	0.0008 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	-0.0001 ppm	-0.0001 ppm	0.0016 ppm	0.0140 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0005 ppm	0.0008 ppm	0.0235 ppm	0.0008 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0000 ppm	-0.0005 ppm	0.0004 ppm	0.0245 ppm	0.0007 ppm
Recovery Percentage 1	1.271 %	1.117 %	0.236 %	-3.854 %	1.878 %	0.827 %	7.660 %
Concentration RSD	70.4 %	365.9 %	469.7 %	60.5 %	65.4 %	28.1 %	12.6 %

	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	-0.0006 ppm	0.0001 ppm	0.0035 ppm	0.0238 ppm	0.0001 ppm	0.0004 ppm	0.0005 ppm
Concentration per Run 1	-0.0013 ppm	0.0001 ppm	0.0034 ppm	0.0226 ppm	0.0003 ppm	0.0002 ppm	0.0010 ppm
Concentration per Run 2	-0.0009 ppm	0.0000 ppm	0.0035 ppm	0.0258 ppm	0.0002 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 3	0.0005 ppm	0.0001 ppm	0.0036 ppm	0.0229 ppm	-0.0001 ppm	0.0006 ppm	0.0005 ppm
Recovery Percentage 1	-0.557 %	0.709 %	7.006 %	1.188 %	0.593 %	4.313 %	1.039 %
Concentration RSD	169.1 %	116.7 %	2.8 %	7.4 %	150.4 %	54.7 %	97.8 %

	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	0.0011 ppm	-0.0001 ppm	0.0006 ppm	0.0001 ppm	0.0002 ppm	-0.0006 ppm	0.0000 ppm
Concentration per Run 1	0.0004 ppm	-0.0005 ppm	0.0003 ppm	0.0000 ppm	0.0003 ppm	-0.0011 ppm	0.0001 ppm
Concentration per Run 2	0.0020 ppm	-0.0004 ppm	0.0003 ppm	0.0001 ppm	0.0001 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 3	0.0010 ppm	0.0006 ppm	0.0014 ppm	0.0001 ppm	0.0003 ppm	-0.0001 ppm	-0.0001 ppm
Recovery Percentage 1	11.218 %	-0.023 %	1.286 %	0.801 %	2.369 %	-2.803 %	-0.087 %
Concentration RSD	73.4 %	528.0 %	104.6 %	44.8 %	45.7 %	93.0 %	993.9 %

	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	0.0002 ppm	103.5168 %	100.2878 %	94.7500 %	101.2908 %	99.4519 %	97.2520 %
Concentration per Run 1	0.0002 ppm	100.3036 %	100.6203 %	93.2365 %	98.1878 %	99.8918 %	96.1346 %
Concentration per Run 2	0.0003 ppm	101.4684 %	100.1536 %	95.0853 %	98.4724 %	99.4356 %	97.4466 %
Concentration per Run 3	0.0001 ppm	108.7784 %	100.0894 %	95.9281 %	107.2123 %	99.0284 %	98.1747 %
Recovery Percentage 1	3.642 %						
Concentration RSD	57.4 %	4.4 %	0.3 %	1.5 %	5.1 %	0.4 %	1.1 %

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12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010314-1 WG2010314
Analysis started at: 12/18/2024 12:23:29 PM
Rack 1
Vial 59
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	-0.0031 ppm	0.0011 ppm	-0.0004 ppm	-0.0001 ppm	0.0000 ppm	0.0836 ppm
Concentration per Run 1	-0.0004 ppm	-0.0017 ppm	-0.0002 ppm	-0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0845 ppm
Concentration per Run 2	-0.0002 ppm	-0.0044 ppm	0.0020 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0828 ppm
Concentration per Run 3	-0.0001 ppm	-0.0033 ppm	0.0014 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0834 ppm
Recovery Percentage 1	-4.280 %	-3.144 %	21.407 %	-1.490 %	-0.549 %	0.028 %	83.576 %
Concentration RSD	66.8 %	43.1 %	109.7 %	73.8 %	59.8 %	1,301.9 %	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	0.0000 ppm	0.0004 ppm	-0.0001 ppm	0.0001 ppm	0.0009 ppm	0.0134 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	-0.0003 ppm	0.0003 ppm	0.0002 ppm	0.0206 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	-0.0001 ppm	0.0002 ppm	0.0012 ppm	0.0040 ppm	0.0000 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0002 ppm	0.0000 ppm	0.0014 ppm	0.0155 ppm	0.0003 ppm
Recovery Percentage 1	-0.699 %	3.769 %	-0.756 %	1.448 %	1.840 %	0.534 %	3.937 %
Concentration RSD	41.5 %	35.3 %	362.1 %	124.7 %	68.3 %	63.6 %	112.6 %

	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	0.0022 ppm	0.0001 ppm	0.0007 ppm	0.0096 ppm	0.0005 ppm	0.0001 ppm	-0.0012 ppm
Concentration per Run 1	0.0005 ppm	0.0000 ppm	0.0007 ppm	0.0099 ppm	0.0008 ppm	0.0001 ppm	-0.0011 ppm
Concentration per Run 2	0.0033 ppm	0.0001 ppm	0.0007 ppm	0.0092 ppm	-0.0001 ppm	0.0005 ppm	-0.0008 ppm
Concentration per Run 3	0.0028 ppm	0.0001 ppm	0.0006 ppm	0.0097 ppm	0.0009 ppm	-0.0004 ppm	-0.0016 ppm
Recovery Percentage 1	2.163 %	0.795 %	1.355 %	0.481 %	2.182 %	0.624 %	-2.381 %
Concentration RSD	69.1 %	54.1 %	6.9 %	3.8 %	103.1 %	777.1 %	34.5 %

	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	0.0007 ppm	0.0010 ppm	0.0002 ppm	0.0001 ppm	0.0001 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 1	0.0015 ppm	0.0011 ppm	0.0004 ppm	0.0001 ppm	0.0002 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 2	-0.0008 ppm	0.0020 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 3	0.0013 ppm	-0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0002 ppm	-0.0003 ppm	0.0001 ppm
Recovery Percentage 1	6.504 %	0.190 %	0.435 %	0.533 %	1.280 %	-0.769 %	0.080 %
Concentration RSD	200.0 %	119.4 %	95.0 %	43.6 %	85.7 %	174.7 %	1,196.2 %

	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	0.0006 ppm	95.2052 %	99.6302 %	94.7845 %	100.0980 %	101.7033 %	99.0686 %
Concentration per Run 1	0.0006 ppm	93.9346 %	99.3314 %	93.8485 %	99.9306 %	101.5798 %	98.8273 %
Concentration per Run 2	0.0007 ppm	95.3142 %	99.5849 %	94.4319 %	100.1537 %	101.6206 %	98.6495 %
Concentration per Run 3	0.0006 ppm	96.3668 %	99.9743 %	96.0731 %	100.2098 %	101.9095 %	99.7291 %
Recovery Percentage 1	12.459 %						
Concentration RSD	10.2 %	1.3 %	0.3 %	1.2 %	0.1 %	0.2 %	0.6 %

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12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010314-2 WG2010314
Analysis started at: 12/18/2024 12:27:58 PM
Rack 1
Vial 60
Comment LOQ Li DAY 2

	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	-0.0064 ppm	0.0018 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0069 ppm
Concentration per Run 1	-0.0003 ppm	-0.0058 ppm	0.0007 ppm	-0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0072 ppm
Concentration per Run 2	-0.0002 ppm	-0.0074 ppm	0.0023 ppm	-0.0008 ppm	-0.0001 ppm	0.0000 ppm	0.0079 ppm
Concentration per Run 3	0.0000 ppm	-0.0061 ppm	0.0022 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0055 ppm
Concentration RSD	112.7 %	13.5 %	50.0 %	109.5 %	102.0 %	456.0 %	18.3 %

	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	0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0132 ppm	0.0065 ppm
Concentration per Run 1	-0.0001 ppm	0.0004 ppm	-0.0001 ppm	0.0000 ppm	-0.0005 ppm	0.0194 ppm	0.0068 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	-0.0004 ppm	-0.0001 ppm	0.0001 ppm	-0.0019 ppm	0.0061 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0020 ppm	0.0221 ppm	0.0067 ppm
Concentration RSD	169.7 %	52.3 %	148.8 %	192.4 %	252.7 %	99.9 %	6.2 %

	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	0.0005 ppm	0.0001 ppm	0.0007 ppm	0.0101 ppm	-0.0001 ppm	-0.0003 ppm	-0.0014 ppm
Concentration per Run 1	-0.0001 ppm	0.0002 ppm	0.0007 ppm	0.0100 ppm	-0.0005 ppm	0.0005 ppm	0.0004 ppm
Concentration per Run 2	0.0024 ppm	0.0000 ppm	0.0007 ppm	0.0107 ppm	-0.0001 ppm	-0.0002 ppm	-0.0017 ppm
Concentration per Run 3	-0.0008 ppm	0.0001 ppm	0.0005 ppm	0.0096 ppm	0.0004 ppm	-0.0013 ppm	-0.0027 ppm
Concentration RSD	328.5 %	59.8 %	20.3 %	5.7 %	754.5 %	274.7 %	115.0 %

	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	0.0029 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm	-0.0001 ppm
Concentration per Run 1	-0.0003 ppm	0.0043 ppm	0.0006 ppm	0.0000 ppm	-0.0001 ppm	0.0009 ppm	-0.0001 ppm
Concentration per Run 2	0.0003 ppm	0.0013 ppm	-0.0005 ppm	0.0000 ppm	-0.0001 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 3	0.0004 ppm	0.0030 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	-0.0002 ppm
Concentration RSD	259.4 %	52.0 %	2,405.6 %	67.7 %	122.5 %	73.9 %	35.0 %

	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	0.0008 ppm	95.3937 %	99.7636 %	94.3670 %	100.1769 %	101.7492 %	99.1474 %
Concentration per Run 1	0.0008 ppm	94.1732 %	98.6922 %	93.7775 %	100.2724 %	101.7404 %	99.3847 %
Concentration per Run 2	0.0008 ppm	95.5095 %	99.8032 %	94.4379 %	99.9439 %	101.9269 %	99.2236 %
Concentration per Run 3	0.0008 ppm	96.4985 %	100.7955 %	94.8856 %	100.3145 %	101.5803 %	98.8339 %
Concentration RSD	2.9 %	1.2 %	1.1 %	0.6 %	0.2 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010323-2 WG2010323
Analysis started at: 12/18/2024 12:32:26 PM
Rack 1
Vial 53
Comment Q4 LOQ Soil

	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	0.0064 ppm	0.1258 ppm	0.0060 ppm	0.0277 ppm	0.0101 ppm	0.0049 ppm	0.1383 ppm
Concentration per Run 1	0.0064 ppm	0.1240 ppm	0.0063 ppm	0.0283 ppm	0.0100 ppm	0.0049 ppm	0.1381 ppm
Concentration per Run 2	0.0065 ppm	0.1277 ppm	0.0067 ppm	0.0268 ppm	0.0102 ppm	0.0049 ppm	0.1368 ppm
Concentration per Run 3	0.0062 ppm	0.1256 ppm	0.0051 ppm	0.0281 ppm	0.0102 ppm	0.0049 ppm	0.1401 ppm
Concentration RSD	1.7 %	1.5 %	14.0 %	2.8 %	1.0 %	0.4 %	1.2 %

	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	0.0037 ppm	0.0204 ppm	0.0117 ppm	0.0104 ppm	0.1459 ppm	2.6042 ppm	0.0113 ppm
Concentration per Run 1	0.0038 ppm	0.0207 ppm	0.0118 ppm	0.0108 ppm	0.1457 ppm	2.6132 ppm	0.0113 ppm
Concentration per Run 2	0.0037 ppm	0.0201 ppm	0.0117 ppm	0.0104 ppm	0.1457 ppm	2.6082 ppm	0.0116 ppm
Concentration per Run 3	0.0038 ppm	0.0204 ppm	0.0116 ppm	0.0101 ppm	0.1462 ppm	2.5913 ppm	0.0110 ppm
Concentration RSD	1.0 %	1.5 %	0.8 %	3.1 %	0.2 %	0.4 %	2.8 %

	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	0.1196 ppm	0.0109 ppm	0.0517 ppm	2.0809 ppm	0.0261 ppm	0.0106 ppm	0.0493 ppm
Concentration per Run 1	0.1203 ppm	0.0110 ppm	0.0518 ppm	2.0694 ppm	0.0265 ppm	0.0111 ppm	0.0493 ppm
Concentration per Run 2	0.1185 ppm	0.0108 ppm	0.0515 ppm	2.0774 ppm	0.0261 ppm	0.0100 ppm	0.0496 ppm
Concentration per Run 3	0.1201 ppm	0.0110 ppm	0.0518 ppm	2.0960 ppm	0.0258 ppm	0.0108 ppm	0.0491 ppm
Concentration RSD	0.8 %	1.0 %	0.3 %	0.7 %	1.4 %	5.2 %	0.5 %

	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	0.0099 ppm	0.0280 ppm	0.0519 ppm	0.0103 ppm	0.0520 ppm	0.0194 ppm	0.0098 ppm
Concentration per Run 1	0.0092 ppm	0.0295 ppm	0.0521 ppm	0.0102 ppm	0.0523 ppm	0.0194 ppm	0.0096 ppm
Concentration per Run 2	0.0097 ppm	0.0282 ppm	0.0534 ppm	0.0102 ppm	0.0520 ppm	0.0197 ppm	0.0096 ppm
Concentration per Run 3	0.0109 ppm	0.0263 ppm	0.0502 ppm	0.0103 ppm	0.0517 ppm	0.0190 ppm	0.0100 ppm
Concentration RSD	8.8 %	5.7 %	3.1 %	0.4 %	0.6 %	1.6 %	2.1 %

	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	0.0061 ppm	103.5706 %	102.8049 %	96.3498 %	97.8672 %	99.7773 %	97.0679 %
Concentration per Run 1	0.0060 ppm	102.4904 %	102.9929 %	96.1719 %	96.8865 %	99.5697 %	97.0489 %
Concentration per Run 2	0.0063 ppm	103.7688 %	103.3056 %	96.3648 %	97.7063 %	100.2467 %	96.9612 %
Concentration per Run 3	0.0061 ppm	104.4525 %	102.1161 %	96.5126 %	99.0090 %	99.5155 %	97.1936 %
Concentration RSD	1.9 %	1.0 %	0.6 %	0.2 %	1.1 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472692-01 WG2010362
Analysis started at: 12/18/2024 12:36:52 PM
Rack 1
Vial 54
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	0.9378 ppm	0.0027 ppm	0.0676 ppm	0.2556 ppm	0.0000 ppm	44.0264 ppm
Concentration per Run 1	-0.0001 ppm	0.9389 ppm	0.0012 ppm	0.0686 ppm	0.2564 ppm	0.0000 ppm	44.0104 ppm
Concentration per Run 2	-0.0002 ppm	0.9380 ppm	0.0029 ppm	0.0679 ppm	0.2547 ppm	0.0000 ppm	44.0271 ppm
Concentration per Run 3	-0.0004 ppm	0.9364 ppm	0.0041 ppm	0.0664 ppm	0.2557 ppm	0.0000 ppm	44.0417 ppm
Concentration RSD	53.5 %	0.1 %	52.6 %	1.7 %	0.3 %	28.1 %	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	0.0005 ppm	0.0008 ppm	0.0005 ppm	0.0045 ppm	0.1963 ppm	35.8312 ppm	0.0029 ppm
Concentration per Run 1	0.0006 ppm	0.0010 ppm	0.0004 ppm	0.0046 ppm	0.1959 ppm	35.9538 ppm	0.0029 ppm
Concentration per Run 2	0.0005 ppm	0.0009 ppm	0.0005 ppm	0.0046 ppm	0.1961 ppm	35.5749 ppm	0.0034 ppm
Concentration per Run 3	0.0005 ppm	0.0006 ppm	0.0005 ppm	0.0043 ppm	0.1967 ppm	35.9648 ppm	0.0022 ppm
Concentration RSD	11.8 %	28.2 %	15.2 %	4.3 %	0.2 %	0.6 %	21.2 %

	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	5.6559 ppm	1.3212 ppm	0.0017 ppm	348.8498 ppm	0.0028 ppm	0.0004 ppm	-0.0013 ppm
Concentration per Run 1	5.7709 ppm	1.3220 ppm	0.0015 ppm	349.1209 ppm	0.0025 ppm	0.0010 ppm	-0.0004 ppm
Concentration per Run 2	5.6191 ppm	1.3206 ppm	0.0020 ppm	348.5885 ppm	0.0030 ppm	-0.0001 ppm	-0.0027 ppm
Concentration per Run 3	5.5775 ppm	1.3211 ppm	0.0017 ppm	348.8400 ppm	0.0029 ppm	0.0002 ppm	-0.0009 ppm
Concentration RSD	1.8 %	0.1 %	12.3 %	0.1 %	9.9 %	141.6 %	93.3 %

	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	0.0002 ppm	5.4745 ppm	0.0009 ppm	0.2399 ppm	0.0046 ppm	-0.0012 ppm	0.0034 ppm
Concentration per Run 1	0.0009 ppm	5.5606 ppm	0.0004 ppm	0.2397 ppm	0.0045 ppm	-0.0018 ppm	0.0033 ppm
Concentration per Run 2	-0.0019 ppm	5.4846 ppm	0.0009 ppm	0.2395 ppm	0.0048 ppm	-0.0012 ppm	0.0034 ppm
Concentration per Run 3	0.0016 ppm	5.3783 ppm	0.0015 ppm	0.2404 ppm	0.0045 ppm	-0.0006 ppm	0.0034 ppm
Concentration RSD	876.6 %	1.7 %	59.1 %	0.2 %	3.5 %	52.1 %	2.3 %

	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	0.0667 ppm	86.3525 %	96.2401 %	76.1444 %	87.5487 %	96.6740 %	88.4180 %
Concentration per Run 1	0.0681 ppm	84.9462 %	96.2441 %	74.0568 %	87.3059 %	97.5041 %	87.1001 %
Concentration per Run 2	0.0663 ppm	86.6705 %	96.1735 %	74.2487 %	87.6745 %	96.4251 %	87.0781 %
Concentration per Run 3	0.0658 ppm	87.4407 %	96.3029 %	80.1278 %	87.6659 %	96.0928 %	91.0757 %
Concentration RSD	1.8 %	1.5 %	0.1 %	4.5 %	0.2 %	0.8 %	2.6 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010362-3 WG2010362
Analysis started at: 12/18/2024 12:41:17 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	0.0528 ppm	3.1085 ppm	0.1317 ppm	1.0705 ppm	2.2774 ppm	0.0517 ppm	53.4389 ppm
Concentration per Run 1	0.0537 ppm	3.1014 ppm	0.1330 ppm	1.0807 ppm	2.2663 ppm	0.0517 ppm	53.4572 ppm
Concentration per Run 2	0.0528 ppm	3.1269 ppm	0.1295 ppm	1.0685 ppm	2.2993 ppm	0.0520 ppm	53.7950 ppm
Concentration per Run 3	0.0519 ppm	3.0973 ppm	0.1324 ppm	1.0623 ppm	2.2667 ppm	0.0514 ppm	53.0645 ppm
Concentration RSD	1.7 %	0.5 %	1.4 %	0.9 %	0.8 %	0.6 %	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	0.0547 ppm	0.5115 ppm	0.2048 ppm	0.2765 ppm	1.1841 ppm	47.4669 ppm	0.0032 ppm
Concentration per Run 1	0.0551 ppm	0.5163 ppm	0.2076 ppm	0.2792 ppm	1.1844 ppm	46.8124 ppm	0.0036 ppm
Concentration per Run 2	0.0548 ppm	0.5104 ppm	0.2036 ppm	0.2759 ppm	1.1879 ppm	48.2942 ppm	0.0027 ppm
Concentration per Run 3	0.0541 ppm	0.5077 ppm	0.2032 ppm	0.2744 ppm	1.1799 ppm	47.2940 ppm	0.0032 ppm
Concentration RSD	0.9 %	0.9 %	1.2 %	0.9 %	0.3 %	1.6 %	14.0 %

	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	15.2856 ppm	1.7973 ppm	0.9038 ppm	354.9103 ppm	0.4962 ppm	0.5653 ppm	0.5248 ppm
Concentration per Run 1	15.4978 ppm	1.7947 ppm	0.9010 ppm	350.8465 ppm	0.5001 ppm	0.5694 ppm	0.5313 ppm
Concentration per Run 2	15.2305 ppm	1.8076 ppm	0.9006 ppm	359.8890 ppm	0.4962 ppm	0.5656 ppm	0.5253 ppm
Concentration per Run 3	15.1285 ppm	1.7897 ppm	0.9099 ppm	353.9955 ppm	0.4925 ppm	0.5610 ppm	0.5179 ppm
Concentration RSD	1.2 %	0.5 %	0.6 %	1.3 %	0.8 %	0.7 %	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	0.1301 ppm	6.3902 ppm	0.8834 ppm	1.2455 ppm	1.0191 ppm	0.1204 ppm	0.5439 ppm
Concentration per Run 1	0.1313 ppm	6.4686 ppm	0.8870 ppm	1.2420 ppm	1.0298 ppm	0.1202 ppm	0.5493 ppm
Concentration per Run 2	0.1296 ppm	6.3634 ppm	0.8806 ppm	1.2563 ppm	1.0178 ppm	0.1208 ppm	0.5430 ppm
Concentration per Run 3	0.1296 ppm	6.3386 ppm	0.8826 ppm	1.2382 ppm	1.0096 ppm	0.1203 ppm	0.5393 ppm
Concentration RSD	0.7 %	1.1 %	0.4 %	0.8 %	1.0 %	0.2 %	0.9 %

	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	0.5815 ppm	87.1434 %	96.9588 %	73.2038 %	86.8193 %	95.8682 %	86.4012 %
Concentration per Run 1	0.5866 ppm	86.3120 %	97.2979 %	72.7841 %	86.9299 %	96.1567 %	86.1945 %
Concentration per Run 2	0.5805 ppm	87.3205 %	96.3180 %	73.0698 %	87.0511 %	95.4068 %	86.5365 %
Concentration per Run 3	0.5773 ppm	87.7977 %	97.2606 %	73.7577 %	86.4769 %	96.0410 %	86.4726 %
Concentration RSD	0.8 %	0.9 %	0.6 %	0.7 %	0.3 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010362-4 WG2010362
Analysis started at: 12/18/2024 12:45:43 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	-0.0004 ppm	0.9368 ppm	0.0024 ppm	0.0681 ppm	0.2556 ppm	0.0000 ppm	43.9665 ppm
Concentration per Run 1	-0.0003 ppm	0.9475 ppm	0.0011 ppm	0.0691 ppm	0.2572 ppm	0.0000 ppm	44.3196 ppm
Concentration per Run 2	-0.0003 ppm	0.9327 ppm	0.0024 ppm	0.0675 ppm	0.2561 ppm	0.0000 ppm	43.8743 ppm
Concentration per Run 3	-0.0005 ppm	0.9303 ppm	0.0037 ppm	0.0675 ppm	0.2536 ppm	0.0000 ppm	43.7057 ppm
Concentration RSD	27.8 %	1.0 %	55.2 %	1.3 %	0.7 %	195.6 %	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	0.0006 ppm	0.0006 ppm	0.0004 ppm	0.0045 ppm	0.1999 ppm	36.0110 ppm	0.0032 ppm
Concentration per Run 1	0.0007 ppm	0.0010 ppm	0.0002 ppm	0.0042 ppm	0.1993 ppm	36.0742 ppm	0.0036 ppm
Concentration per Run 2	0.0005 ppm	0.0006 ppm	0.0004 ppm	0.0046 ppm	0.2002 ppm	36.3366 ppm	0.0031 ppm
Concentration per Run 3	0.0006 ppm	0.0001 ppm	0.0007 ppm	0.0048 ppm	0.2002 ppm	35.6222 ppm	0.0027 ppm
Concentration RSD	12.8 %	79.1 %	60.6 %	6.2 %	0.3 %	1.0 %	13.8 %

	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	5.6517 ppm	1.3227 ppm	0.0099 ppm	348.8490 ppm	0.0028 ppm	0.0006 ppm	-0.0025 ppm
Concentration per Run 1	5.7037 ppm	1.3313 ppm	0.0102 ppm	349.3428 ppm	0.0031 ppm	0.0009 ppm	-0.0044 ppm
Concentration per Run 2	5.6486 ppm	1.3224 ppm	0.0100 ppm	347.5526 ppm	0.0030 ppm	0.0008 ppm	-0.0020 ppm
Concentration per Run 3	5.6029 ppm	1.3145 ppm	0.0096 ppm	349.6515 ppm	0.0023 ppm	0.0002 ppm	-0.0010 ppm
Concentration RSD	0.9 %	0.6 %	3.2 %	0.3 %	16.4 %	65.4 %	71.9 %

	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	0.0005 ppm	5.4568 ppm	0.0042 ppm	0.2400 ppm	0.0051 ppm	-0.0017 ppm	0.0033 ppm
Concentration per Run 1	0.0009 ppm	5.5313 ppm	0.0036 ppm	0.2416 ppm	0.0050 ppm	-0.0029 ppm	0.0034 ppm
Concentration per Run 2	0.0019 ppm	5.4407 ppm	0.0046 ppm	0.2404 ppm	0.0052 ppm	-0.0007 ppm	0.0035 ppm
Concentration per Run 3	-0.0012 ppm	5.3984 ppm	0.0043 ppm	0.2378 ppm	0.0051 ppm	-0.0014 ppm	0.0031 ppm
Concentration RSD	302.5 %	1.2 %	12.7 %	0.8 %	1.8 %	69.1 %	6.1 %

	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	0.0666 ppm	86.4367 %	96.5832 %	74.6394 %	87.3269 %	96.2960 %	87.1116 %
Concentration per Run 1	0.0672 ppm	85.5954 %	95.7487 %	73.3232 %	87.4780 %	95.7682 %	86.7520 %
Concentration per Run 2	0.0668 ppm	86.6423 %	96.6296 %	75.1508 %	87.6287 %	96.0508 %	87.4927 %
Concentration per Run 3	0.0658 ppm	87.0724 %	97.3713 %	75.4442 %	86.8739 %	97.0689 %	87.0901 %
Concentration RSD	1.1 %	0.9 %	0.8 %	1.5 %	0.5 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010362-5 WG2010362
Analysis started at: 12/18/2024 12:50:08 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	0.0545 ppm	3.0739 ppm	0.1365 ppm	1.1371 ppm	2.3530 ppm	0.0539 ppm	52.3124 ppm
Concentration per Run 1	0.0551 ppm	3.0766 ppm	0.1388 ppm	1.1493 ppm	2.3407 ppm	0.0538 ppm	52.3720 ppm
Concentration per Run 2	0.0546 ppm	3.0590 ppm	0.1338 ppm	1.1469 ppm	2.3536 ppm	0.0539 ppm	52.3056 ppm
Concentration per Run 3	0.0538 ppm	3.0861 ppm	0.1370 ppm	1.1152 ppm	2.3646 ppm	0.0539 ppm	52.2595 ppm
Concentration RSD	1.2 %	0.4 %	1.8 %	1.7 %	0.5 %	0.1 %	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	0.0556 ppm	0.5337 ppm	0.2136 ppm	0.2918 ppm	1.2566 ppm	46.6433 ppm	0.0030 ppm
Concentration per Run 1	0.0565 ppm	0.5404 ppm	0.2166 ppm	0.2950 ppm	1.2526 ppm	46.3060 ppm	0.0035 ppm
Concentration per Run 2	0.0562 ppm	0.5376 ppm	0.2148 ppm	0.2924 ppm	1.2592 ppm	46.2925 ppm	0.0027 ppm
Concentration per Run 3	0.0542 ppm	0.5230 ppm	0.2095 ppm	0.2881 ppm	1.2579 ppm	47.3314 ppm	0.0028 ppm
Concentration RSD	2.2 %	1.8 %	1.7 %	1.2 %	0.3 %	1.3 %	14.0 %

	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	15.8393 ppm	1.7719 ppm	0.9599 ppm	345.4335 ppm	0.5343 ppm	0.5926 ppm	0.4179 ppm
Concentration per Run 1	16.0717 ppm	1.7712 ppm	0.9605 ppm	343.5847 ppm	0.5420 ppm	0.5974 ppm	0.4177 ppm
Concentration per Run 2	15.9205 ppm	1.7714 ppm	0.9658 ppm	345.3114 ppm	0.5382 ppm	0.5941 ppm	0.4159 ppm
Concentration per Run 3	15.5256 ppm	1.7731 ppm	0.9533 ppm	347.4043 ppm	0.5226 ppm	0.5864 ppm	0.4201 ppm
Concentration RSD	1.8 %	0.1 %	0.7 %	0.6 %	1.9 %	1.0 %	0.5 %

	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	0.1358 ppm	6.3668 ppm	1.0281 ppm	1.3119 ppm	1.1155 ppm	0.1260 ppm	0.5689 ppm
Concentration per Run 1	0.1368 ppm	6.4453 ppm	1.0362 ppm	1.3054 ppm	1.1299 ppm	0.1274 ppm	0.5772 ppm
Concentration per Run 2	0.1354 ppm	6.3998 ppm	1.0416 ppm	1.3141 ppm	1.1198 ppm	0.1256 ppm	0.5691 ppm
Concentration per Run 3	0.1354 ppm	6.2553 ppm	1.0066 ppm	1.3161 ppm	1.0967 ppm	0.1251 ppm	0.5605 ppm
Concentration RSD	0.6 %	1.6 %	1.8 %	0.4 %	1.5 %	1.0 %	1.5 %

	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	0.6127 ppm	87.4610 %	97.4667 %	72.9470 %	87.0076 %	96.3958 %	86.2254 %
Concentration per Run 1	0.6213 ppm	86.5889 %	97.2726 %	72.3044 %	87.2189 %	96.6643 %	86.2431 %
Concentration per Run 2	0.6186 ppm	87.3025 %	97.4549 %	72.7544 %	86.5292 %	96.4791 %	85.8955 %
Concentration per Run 3	0.5981 ppm	88.4916 %	97.6726 %	73.7823 %	87.2746 %	96.0440 %	86.5374 %
Concentration RSD	2.1 %	1.1 %	0.2 %	1.0 %	0.5 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010362-6d5 WG2010362
Analysis started at: 12/18/2024 12:54:34 PM
Rack 1
Vial 58
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	0.1702 ppm	0.0029 ppm	0.0127 ppm	0.0481 ppm	0.0000 ppm	8.5916 ppm
Concentration per Run 1	-0.0001 ppm	0.1680 ppm	0.0024 ppm	0.0123 ppm	0.0481 ppm	0.0000 ppm	8.6085 ppm
Concentration per Run 2	-0.0002 ppm	0.1709 ppm	0.0030 ppm	0.0129 ppm	0.0483 ppm	0.0000 ppm	8.6290 ppm
Concentration per Run 3	-0.0002 ppm	0.1718 ppm	0.0033 ppm	0.0128 ppm	0.0478 ppm	0.0000 ppm	8.5374 ppm
Concentration RSD	29.8 %	1.2 %	16.0 %	2.6 %	0.5 %	653.7 %	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	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0006 ppm	0.0423 ppm	6.5981 ppm	0.0018 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	-0.0003 ppm	0.0006 ppm	0.0426 ppm	6.6029 ppm	0.0021 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	0.0000 ppm	0.0007 ppm	0.0422 ppm	6.5920 ppm	0.0013 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0421 ppm	6.5994 ppm	0.0018 ppm
Concentration RSD	108.3 %	1,188.4 %	132.7 %	15.0 %	0.6 %	0.1 %	22.3 %

	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	1.0811 ppm	0.2531 ppm	0.0136 ppm	67.8937 ppm	0.0007 ppm	0.0007 ppm	0.0192 ppm
Concentration per Run 1	1.0923 ppm	0.2536 ppm	0.0138 ppm	67.7830 ppm	0.0007 ppm	0.0003 ppm	0.0196 ppm
Concentration per Run 2	1.0787 ppm	0.2541 ppm	0.0133 ppm	68.2705 ppm	0.0003 ppm	0.0010 ppm	0.0202 ppm
Concentration per Run 3	1.0724 ppm	0.2517 ppm	0.0138 ppm	67.6276 ppm	0.0010 ppm	0.0009 ppm	0.0179 ppm
Concentration RSD	0.9 %	0.5 %	2.3 %	0.5 %	48.4 %	53.8 %	6.3 %

	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	0.0002 ppm	0.9683 ppm	0.0104 ppm	0.0450 ppm	0.0016 ppm	-0.0003 ppm	0.0006 ppm
Concentration per Run 1	0.0001 ppm	0.9756 ppm	0.0093 ppm	0.0451 ppm	0.0016 ppm	0.0002 ppm	0.0007 ppm
Concentration per Run 2	0.0004 ppm	0.9696 ppm	0.0110 ppm	0.0453 ppm	0.0017 ppm	-0.0006 ppm	0.0006 ppm
Concentration per Run 3	0.0001 ppm	0.9596 ppm	0.0109 ppm	0.0447 ppm	0.0016 ppm	-0.0006 ppm	0.0006 ppm
Concentration RSD	73.8 %	0.8 %	9.5 %	0.6 %	3.2 %	145.3 %	6.3 %

	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	0.0128 ppm	97.5810 %	100.6973 %	88.7089 %	93.7360 %	98.1666 %	93.3243 %
Concentration per Run 1	0.0129 ppm	96.5758 %	100.3463 %	88.2510 %	93.5887 %	97.7772 %	93.1130 %
Concentration per Run 2	0.0130 ppm	97.6801 %	100.5307 %	88.7624 %	93.7469 %	97.9339 %	93.3831 %
Concentration per Run 3	0.0126 ppm	98.4870 %	101.2148 %	89.1132 %	93.8723 %	98.7887 %	93.4769 %
Concentration RSD	1.5 %	1.0 %	0.5 %	0.5 %	0.2 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCV
Analysis started at: 12/18/2024 12:59:01 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	0.4753 ppm	0.4677 ppm	0.4784 ppm	0.4779 ppm	0.4874 ppm	0.5021 ppm	0.4895 ppm
Concentration per Run 1	0.4778 ppm	0.4736 ppm	0.4778 ppm	0.4785 ppm	0.4840 ppm	0.5022 ppm	0.4890 ppm
Concentration per Run 2	0.4761 ppm	0.4648 ppm	0.4801 ppm	0.4808 ppm	0.4896 ppm	0.5016 ppm	0.4897 ppm
Concentration per Run 3	0.4720 ppm	0.4648 ppm	0.4774 ppm	0.4744 ppm	0.4886 ppm	0.5026 ppm	0.4898 ppm
Recovery Percentage 1	95.063 %	93.549 %	95.689 %	95.579 %	97.479 %	100.424 %	97.895 %
Concentration RSD	0.6 %	1.1 %	0.3 %	0.7 %	0.6 %	0.1 %	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	0.4888 ppm	0.5028 ppm	0.4823 ppm	0.4848 ppm	0.5020 ppm	5.1914 ppm	0.5028 ppm
Concentration per Run 1	0.4945 ppm	0.5079 ppm	0.4872 ppm	0.4864 ppm	0.5037 ppm	5.1765 ppm	0.5031 ppm
Concentration per Run 2	0.4882 ppm	0.5027 ppm	0.4835 ppm	0.4861 ppm	0.4981 ppm	5.1838 ppm	0.5014 ppm
Concentration per Run 3	0.4838 ppm	0.4979 ppm	0.4763 ppm	0.4818 ppm	0.5042 ppm	5.2139 ppm	0.5039 ppm
Recovery Percentage 1	97.763 %	100.564 %	96.470 %	96.951 %	100.400 %	103.828 %	100.563 %
Concentration RSD	1.1 %	1.0 %	1.2 %	0.5 %	0.7 %	0.4 %	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	0.4870 ppm	0.4804 ppm	0.4931 ppm	10.1574 ppm	0.4985 ppm	0.4854 ppm	0.5010 ppm
Concentration per Run 1	0.4915 ppm	0.4797 ppm	0.4951 ppm	10.1619 ppm	0.5037 ppm	0.4847 ppm	0.5018 ppm
Concentration per Run 2	0.4869 ppm	0.4802 ppm	0.4933 ppm	10.1515 ppm	0.5010 ppm	0.4865 ppm	0.5030 ppm
Concentration per Run 3	0.4825 ppm	0.4814 ppm	0.4910 ppm	10.1587 ppm	0.4909 ppm	0.4851 ppm	0.4980 ppm
Recovery Percentage 1	97.391 %	96.086 %	98.622 %	101.574 %	99.709 %	97.087 %	100.193 %
Concentration RSD	0.9 %	0.2 %	0.4 %	0.1 %	1.4 %	0.2 %	0.5 %

	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	0.4854 ppm	5.4088 ppm	0.5076 ppm	0.5190 ppm	0.4844 ppm	0.4854 ppm	0.4888 ppm
Concentration per Run 1	0.4839 ppm	5.4319 ppm	0.5149 ppm	0.5190 ppm	0.4879 ppm	0.4835 ppm	0.4921 ppm
Concentration per Run 2	0.4883 ppm	5.4260 ppm	0.5084 ppm	0.5180 ppm	0.4852 ppm	0.4875 ppm	0.4890 ppm
Concentration per Run 3	0.4841 ppm	5.3685 ppm	0.4996 ppm	0.5199 ppm	0.4802 ppm	0.4851 ppm	0.4853 ppm
Recovery Percentage 1	97.089 %	103.025 %	101.524 %	103.797 %	96.882 %	97.078 %	97.762 %
Concentration RSD	0.5 %	0.6 %	1.5 %	0.2 %	0.8 %	0.4 %	0.7 %

	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	0.4904 ppm	101.7236 %	100.8197 %	94.0771 %	96.3969 %	98.4111 %	96.2389 %
Concentration per Run 1	0.4984 ppm	100.8153 %	101.0509 %	93.9149 %	96.2314 %	98.9875 %	96.2206 %
Concentration per Run 2	0.4907 ppm	101.7231 %	100.6672 %	93.6216 %	96.3331 %	98.0528 %	95.5749 %
Concentration per Run 3	0.4822 ppm	102.6324 %	100.7411 %	94.6949 %	96.6263 %	98.1930 %	96.9213 %
Recovery Percentage 1	98.087 %						
Concentration RSD	1.6 %	0.9 %	0.2 %	0.6 %	0.2 %	0.5 %	0.7 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCB
Analysis started at: 12/18/2024 1:03:27 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	-0.0034 ppm	0.0013 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 1	-0.0003 ppm	-0.0040 ppm	0.0017 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 2	0.0000 ppm	-0.0058 ppm	0.0019 ppm	-0.0008 ppm	-0.0001 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 3	-0.0002 ppm	-0.0004 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm
Recovery Percentage 1	-3.114 %	-3.376 %	25.945 %	-1.273 %	-0.350 %	0.624 %	-0.609 %
Concentration RSD	98.1 %	81.2 %	64.5 %	110.3 %	75.2 %	17.3 %	24.7 %

	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	-0.0003 ppm	0.0009 ppm	0.0268 ppm	0.0004 ppm
Concentration per Run 1	0.0001 ppm	0.0004 ppm	-0.0004 ppm	-0.0002 ppm	0.0010 ppm	0.0251 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0004 ppm	0.0015 ppm	0.0283 ppm	0.0003 ppm
Concentration per Run 3	0.0001 ppm	0.0003 ppm	0.0001 ppm	-0.0004 ppm	0.0002 ppm	0.0271 ppm	0.0001 ppm
Recovery Percentage 1	1.397 %	1.978 %	-0.806 %	-3.320 %	1.807 %	1.073 %	4.203 %
Concentration RSD	141.8 %	99.2 %	336.6 %	30.1 %	68.5 %	6.0 %	100.7 %

	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	-0.0003 ppm	0.0000 ppm	0.0047 ppm	0.0464 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run 1	-0.0006 ppm	-0.0001 ppm	0.0049 ppm	0.0450 ppm	0.0005 ppm	0.0001 ppm	-0.0007 ppm
Concentration per Run 2	-0.0002 ppm	0.0000 ppm	0.0046 ppm	0.0480 ppm	-0.0002 ppm	0.0002 ppm	-0.0005 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0047 ppm	0.0462 ppm	-0.0003 ppm	0.0004 ppm	0.0015 ppm
Recovery Percentage 1	-0.269 %	0.241 %	9.456 %	2.320 %	0.007 %	2.538 %	0.155 %
Concentration RSD	112.8 %	351.7 %	3.4 %	3.2 %	27,255.6 %	65.9 %	1,554.5 %

	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	0.0010 ppm	0.0010 ppm	0.0014 ppm	0.0001 ppm	0.0003 ppm	-0.0006 ppm	0.0001 ppm
Concentration per Run 1	0.0013 ppm	0.0006 ppm	0.0020 ppm	0.0000 ppm	0.0002 ppm	-0.0010 ppm	0.0000 ppm
Concentration per Run 2	0.0005 ppm	0.0017 ppm	0.0009 ppm	0.0001 ppm	0.0002 ppm	-0.0009 ppm	0.0001 ppm
Concentration per Run 3	0.0012 ppm	0.0007 ppm	0.0014 ppm	0.0001 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm
Recovery Percentage 1	9.938 %	0.204 %	2.809 %	0.647 %	3.103 %	-3.174 %	0.640 %
Concentration RSD	43.1 %	60.6 %	40.9 %	29.3 %	73.4 %	92.0 %	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	0.0003 ppm	101.2347 %	100.3191 %	95.4575 %	98.7079 %	99.3624 %	98.1357 %
Concentration per Run 1	0.0001 ppm	100.7238 %	100.9892 %	95.2360 %	98.8294 %	99.7625 %	98.0773 %
Concentration per Run 2	0.0002 ppm	100.9752 %	100.4617 %	95.3063 %	98.3169 %	99.2290 %	97.9739 %
Concentration per Run 3	0.0005 ppm	102.0050 %	99.5064 %	95.8303 %	98.9774 %	99.0957 %	98.3559 %
Recovery Percentage 1	5.418 %						
Concentration RSD	88.4 %	0.7 %	0.7 %	0.3 %	0.4 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010479-1 WG2010479
Analysis started at: 12/18/2024 1:09:06 PM
Rack 2
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	-0.0002 ppm	0.0198 ppm	0.0019 ppm	-0.0003 ppm	0.0002 ppm	0.0000 ppm	0.0352 ppm
Concentration per Run 1	-0.0001 ppm	0.0177 ppm	0.0020 ppm	-0.0010 ppm	0.0002 ppm	0.0000 ppm	0.0355 ppm
Concentration per Run 2	-0.0002 ppm	0.0205 ppm	0.0025 ppm	-0.0003 ppm	0.0002 ppm	0.0000 ppm	0.0369 ppm
Concentration per Run 3	-0.0002 ppm	0.0212 ppm	0.0014 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0330 ppm
Recovery Percentage 1	-3.716 %	19.775 %	38.938 %	-1.129 %	1.637 %	0.370 %	35.152 %
Concentration RSD	31.8 %	9.5 %	27.6 %	181.7 %	16.0 %	58.5 %	5.6 %

	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	0.0000 ppm	0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0485 ppm	0.0293 ppm	0.0010 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	0.0004 ppm	0.0001 ppm	0.0487 ppm	0.0190 ppm	0.0007 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0001 ppm	-0.0003 ppm	0.0482 ppm	0.0403 ppm	0.0010 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	0.0002 ppm	-0.0002 ppm	0.0486 ppm	0.0285 ppm	0.0014 ppm
Recovery Percentage 1	-0.123 %	0.942 %	2.522 %	-1.199 %	97.012 %	1.171 %	10.271 %
Concentration RSD	801.7 %	427.2 %	69.5 %	142.6 %	0.6 %	36.5 %	31.6 %

	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	0.0106 ppm	0.0013 ppm	0.0014 ppm	0.0490 ppm	0.0003 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 1	0.0100 ppm	0.0012 ppm	0.0014 ppm	0.0471 ppm	0.0001 ppm	0.0003 ppm	0.0011 ppm
Concentration per Run 2	0.0109 ppm	0.0013 ppm	0.0014 ppm	0.0517 ppm	0.0007 ppm	0.0005 ppm	0.0011 ppm
Concentration per Run 3	0.0109 ppm	0.0013 ppm	0.0013 ppm	0.0483 ppm	0.0002 ppm	-0.0008 ppm	0.0010 ppm
Recovery Percentage 1	10.613 %	12.666 %	2.732 %	2.451 %	1.358 %	0.178 %	2.081 %
Concentration RSD	4.8 %	6.2 %	3.5 %	4.9 %	102.0 %	4,163.5 %	7.2 %

	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	0.0017 ppm	0.0288 ppm	0.0024 ppm	0.0001 ppm	0.0028 ppm	-0.0008 ppm	0.0000 ppm
Concentration per Run 1	0.0014 ppm	0.0237 ppm	0.0025 ppm	0.0001 ppm	0.0022 ppm	-0.0011 ppm	0.0000 ppm
Concentration per Run 2	0.0010 ppm	0.0381 ppm	0.0028 ppm	0.0002 ppm	0.0035 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 3	0.0025 ppm	0.0246 ppm	0.0020 ppm	0.0001 ppm	0.0027 ppm	-0.0007 ppm	0.0000 ppm
Recovery Percentage 1	16.637 %	5.764 %	4.882 %	1.475 %	28.100 %	-4.239 %	0.185 %
Concentration RSD	47.1 %	27.9 %	15.2 %	20.6 %	21.8 %	22.2 %	408.4 %

	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	0.0020 ppm	103.2572 %	101.8609 %	98.9203 %	99.3157 %	100.2784 %	100.2104 %
Concentration per Run 1	0.0020 ppm	102.1997 %	102.0951 %	103.3869 %	98.5960 %	100.7309 %	104.7627 %
Concentration per Run 2	0.0021 ppm	103.0699 %	100.8824 %	95.9305 %	99.0219 %	99.5398 %	97.0935 %
Concentration per Run 3	0.0021 ppm	104.5021 %	102.6050 %	97.4434 %	100.3291 %	100.5647 %	98.7750 %
Recovery Percentage 1	40.922 %						
Concentration RSD	2.1 %	1.1 %	0.9 %	4.0 %	0.9 %	0.6 %	4.0 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010479-2D2 WG2010479
Analysis started at: 12/18/2024 1:13:34 PM
Rack 2
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	0.3103 ppm	18.3759 ppm	1.1273 ppm	0.8769 ppm	1.1357 ppm	0.6615 ppm	19.6361 ppm
Concentration per Run 1	0.3178 ppm	18.3849 ppm	1.1373 ppm	0.8952 ppm	1.1424 ppm	0.6639 ppm	19.6433 ppm
Concentration per Run 2	0.2829 ppm	18.3782 ppm	1.1225 ppm	0.8001 ppm	1.1307 ppm	0.6627 ppm	19.6605 ppm
Concentration per Run 3	0.3302 ppm	18.3646 ppm	1.1221 ppm	0.9355 ppm	1.1339 ppm	0.6580 ppm	19.6044 ppm
Concentration RSD	7.9 %	0.1 %	0.8 %	7.9 %	0.5 %	0.5 %	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	0.7930 ppm	0.3208 ppm	0.6998 ppm	0.8160 ppm	22.2982 ppm	4.5066 ppm	0.5380 ppm
Concentration per Run 1	0.8114 ppm	0.3285 ppm	0.7153 ppm	0.8410 ppm	22.3802 ppm	4.5882 ppm	0.5482 ppm
Concentration per Run 2	0.7192 ppm	0.2922 ppm	0.6372 ppm	0.7396 ppm	22.3826 ppm	4.4839 ppm	0.5345 ppm
Concentration per Run 3	0.8484 ppm	0.3417 ppm	0.7469 ppm	0.8674 ppm	22.1317 ppm	4.4476 ppm	0.5312 ppm
Concentration RSD	8.4 %	8.0 %	8.1 %	8.3 %	0.6 %	1.6 %	1.7 %

	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	5.7375 ppm	2.0319 ppm	0.5506 ppm	7.5388 ppm	1.2350 ppm	0.3705 ppm	0.8235 ppm
Concentration per Run 1	5.8607 ppm	2.0353 ppm	0.5595 ppm	7.5462 ppm	1.2599 ppm	0.3731 ppm	0.8387 ppm
Concentration per Run 2	5.2186 ppm	2.0347 ppm	0.4997 ppm	7.5411 ppm	1.1249 ppm	0.3719 ppm	0.7520 ppm
Concentration per Run 3	6.1333 ppm	2.0258 ppm	0.5926 ppm	7.5290 ppm	1.3203 ppm	0.3665 ppm	0.8799 ppm
Concentration RSD	8.2 %	0.3 %	8.5 %	0.1 %	8.1 %	1.0 %	7.9 %

	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	0.5922 ppm	3.6106 ppm	0.2994 ppm	0.5360 ppm	1.1214 ppm	0.7929 ppm	0.4007 ppm
Concentration per Run 1	0.5948 ppm	3.8095 ppm	0.3038 ppm	0.5383 ppm	1.1507 ppm	0.7951 ppm	0.4112 ppm
Concentration per Run 2	0.5897 ppm	3.2460 ppm	0.2737 ppm	0.5354 ppm	1.0181 ppm	0.7928 ppm	0.3646 ppm
Concentration per Run 3	0.5922 ppm	3.7763 ppm	0.3207 ppm	0.5343 ppm	1.1954 ppm	0.7908 ppm	0.4261 ppm
Concentration RSD	0.4 %	8.8 %	8.0 %	0.4 %	8.2 %	0.3 %	8.0 %

	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	0.6452 ppm	103.4067 %	101.8139 %	87.9904 %	103.7927 %	106.1187 %	101.3728 %
Concentration per Run 1	0.6588 ppm	100.8963 %	101.3573 %	87.7285 %	102.7754 %	105.7343 %	101.2677 %
Concentration per Run 2	0.5847 ppm	112.5363 %	101.9234 %	87.7028 %	112.5724 %	106.6118 %	101.2342 %
Concentration per Run 3	0.6920 ppm	96.7873 %	102.1611 %	88.5398 %	96.0303 %	106.0101 %	101.6165 %
Concentration RSD	8.5 %	7.9 %	0.4 %	0.5 %	8.0 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010479-3D2 WG2010479
Analysis started at: 12/18/2024 1:18:00 PM
Rack 2
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	0.3418 ppm	18.8124 ppm	1.1736 ppm	0.9615 ppm	1.2257 ppm	0.6731 ppm	19.9803 ppm
Concentration per Run 1	0.3330 ppm	18.8584 ppm	1.1773 ppm	0.9353 ppm	1.2261 ppm	0.6737 ppm	20.0487 ppm
Concentration per Run 2	0.3532 ppm	18.7645 ppm	1.1720 ppm	0.9977 ppm	1.2295 ppm	0.6740 ppm	19.9520 ppm
Concentration per Run 3	0.3393 ppm	18.8143 ppm	1.1714 ppm	0.9515 ppm	1.2214 ppm	0.6717 ppm	19.9401 ppm
Concentration RSD	3.0 %	0.2 %	0.3 %	3.4 %	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	0.8794 ppm	0.3485 ppm	0.7588 ppm	0.8837 ppm	22.9293 ppm	4.5996 ppm	0.5524 ppm
Concentration per Run 1	0.8578 ppm	0.3390 ppm	0.7395 ppm	0.8555 ppm	22.9513 ppm	4.6120 ppm	0.5558 ppm
Concentration per Run 2	0.9131 ppm	0.3624 ppm	0.7838 ppm	0.9164 ppm	22.9730 ppm	4.6065 ppm	0.5525 ppm
Concentration per Run 3	0.8674 ppm	0.3441 ppm	0.7531 ppm	0.8790 ppm	22.8635 ppm	4.5802 ppm	0.5488 ppm
Concentration RSD	3.4 %	3.5 %	3.0 %	3.5 %	0.3 %	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	6.2273 ppm	2.2528 ppm	0.6090 ppm	7.6445 ppm	1.3387 ppm	0.3942 ppm	0.9047 ppm
Concentration per Run 1	6.0719 ppm	2.2598 ppm	0.5892 ppm	7.7116 ppm	1.3055 ppm	0.3992 ppm	0.8791 ppm
Concentration per Run 2	6.4385 ppm	2.2516 ppm	0.6320 ppm	7.5800 ppm	1.3842 ppm	0.3914 ppm	0.9384 ppm
Concentration per Run 3	6.1717 ppm	2.2470 ppm	0.6058 ppm	7.6418 ppm	1.3263 ppm	0.3921 ppm	0.8966 ppm
Concentration RSD	3.0 %	0.3 %	3.5 %	0.9 %	3.0 %	1.1 %	3.4 %

	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	0.6135 ppm	3.1999 ppm	0.3294 ppm	0.5459 ppm	1.2114 ppm	0.8510 ppm	0.4373 ppm
Concentration per Run 1	0.6170 ppm	3.1175 ppm	0.3198 ppm	0.5451 ppm	1.1791 ppm	0.8602 ppm	0.4260 ppm
Concentration per Run 2	0.6119 ppm	3.3245 ppm	0.3430 ppm	0.5472 ppm	1.2522 ppm	0.8483 ppm	0.4520 ppm
Concentration per Run 3	0.6114 ppm	3.1578 ppm	0.3253 ppm	0.5455 ppm	1.2030 ppm	0.8447 ppm	0.4339 ppm
Concentration RSD	0.5 %	3.4 %	3.7 %	0.2 %	3.1 %	1.0 %	3.1 %

	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	0.6968 ppm	98.4851 %	101.3446 %	88.1803 %	99.1144 %	105.5817 %	101.4777 %
Concentration per Run 1	0.6789 ppm	100.8065 %	101.4997 %	87.4334 %	102.2928 %	105.2518 %	101.4233 %
Concentration per Run 2	0.7223 ppm	95.5166 %	101.4331 %	88.6590 %	94.6420 %	105.9273 %	101.6864 %
Concentration per Run 3	0.6893 ppm	99.1321 %	101.1011 %	88.4484 %	100.4084 %	105.5660 %	101.3234 %
Concentration RSD	3.3 %	2.7 %	0.2 %	0.7 %	4.0 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473518-01D2 WG2010479
Analysis started at: 12/18/2024 1:22:25 PM
Rack 2
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	0.0016 ppm	78.0546 ppm	0.1012 ppm	0.0042 ppm	0.1789 ppm	0.0030 ppm	5.6728 ppm
Concentration per Run 1	0.0015 ppm	71.1548 ppm	0.1015 ppm	0.0047 ppm	0.1620 ppm	0.0027 ppm	5.2027 ppm
Concentration per Run 2	0.0016 ppm	82.7146 ppm	0.1015 ppm	0.0032 ppm	0.1899 ppm	0.0032 ppm	5.9996 ppm
Concentration per Run 3	0.0016 ppm	80.2944 ppm	0.1007 ppm	0.0045 ppm	0.1849 ppm	0.0031 ppm	5.8161 ppm
Concentration RSD	3.4 %	7.8 %	0.5 %	19.5 %	8.3 %	7.3 %	7.4 %

	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	0.0035 ppm	0.0248 ppm	0.1595 ppm	0.2245 ppm	82.9181 ppm	5.6918 ppm	0.0915 ppm
Concentration per Run 1	0.0035 ppm	0.0251 ppm	0.1599 ppm	0.2264 ppm	75.7274 ppm	5.1765 ppm	0.0830 ppm
Concentration per Run 2	0.0035 ppm	0.0248 ppm	0.1598 ppm	0.2237 ppm	87.7099 ppm	6.0227 ppm	0.0967 ppm
Concentration per Run 3	0.0035 ppm	0.0244 ppm	0.1589 ppm	0.2233 ppm	85.3171 ppm	5.8763 ppm	0.0946 ppm
Concentration RSD	0.7 %	1.5 %	0.3 %	0.8 %	7.6 %	7.9 %	8.1 %

	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	13.9351 ppm	0.9347 ppm	0.0093 ppm	0.7298 ppm	0.0737 ppm	0.4106 ppm	0.0054 ppm
Concentration per Run 1	13.9942 ppm	0.8550 ppm	0.0094 ppm	0.6632 ppm	0.0740 ppm	0.4113 ppm	0.0049 ppm
Concentration per Run 2	13.9713 ppm	0.9884 ppm	0.0093 ppm	0.7800 ppm	0.0739 ppm	0.4109 ppm	0.0048 ppm
Concentration per Run 3	13.8398 ppm	0.9606 ppm	0.0093 ppm	0.7461 ppm	0.0732 ppm	0.4096 ppm	0.0064 ppm
Concentration RSD	0.6 %	7.5 %	0.3 %	8.2 %	0.6 %	0.2 %	16.0 %

	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	0.0040 ppm	6.8427 ppm	0.0263 ppm	0.0432 ppm	2.5733 ppm	0.0021 ppm	0.1320 ppm
Concentration per Run 1	0.0053 ppm	6.9198 ppm	0.0263 ppm	0.0392 ppm	2.5831 ppm	0.0012 ppm	0.1326 ppm
Concentration per Run 2	0.0026 ppm	6.9713 ppm	0.0263 ppm	0.0457 ppm	2.5726 ppm	0.0025 ppm	0.1320 ppm
Concentration per Run 3	0.0042 ppm	6.6370 ppm	0.0261 ppm	0.0446 ppm	2.5642 ppm	0.0027 ppm	0.1315 ppm
Concentration RSD	33.2 %	2.6 %	0.4 %	8.0 %	0.4 %	38.0 %	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	0.4262 ppm	102.0476 %	105.9419 %	83.6223 %	105.2371 %	112.0588 %	103.9074 %
Concentration per Run 1	0.4252 ppm	101.6337 %	114.9140 %	83.5117 %	105.5670 %	116.0073 %	103.8280 %
Concentration per Run 2	0.4281 ppm	102.1188 %	100.0553 %	83.2631 %	104.9226 %	108.9200 %	103.4474 %
Concentration per Run 3	0.4254 ppm	102.3902 %	102.8564 %	84.0920 %	105.2216 %	111.2490 %	104.4468 %
Concentration RSD	0.4 %	0.4 %	7.5 %	0.5 %	0.3 %	3.2 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473518-02D2 WG2010479
Analysis started at: 12/18/2024 1:28:34 PM
Rack 2
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	0.0005 ppm	40.8980 ppm	0.0457 ppm	0.0062 ppm	0.1037 ppm	0.0020 ppm	4.3790 ppm
Concentration per Run 1	0.0003 ppm	41.3692 ppm	0.0462 ppm	0.0073 ppm	0.1053 ppm	0.0021 ppm	4.4837 ppm
Concentration per Run 2	0.0006 ppm	40.9174 ppm	0.0457 ppm	0.0055 ppm	0.1042 ppm	0.0020 ppm	4.3243 ppm
Concentration per Run 3	0.0005 ppm	40.4074 ppm	0.0452 ppm	0.0059 ppm	0.1018 ppm	0.0020 ppm	4.3289 ppm
Concentration RSD	29.7 %	1.2 %	1.2 %	15.7 %	1.7 %	1.6 %	2.1 %

	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	0.0008 ppm	0.0226 ppm	0.0572 ppm	0.0816 ppm	106.6470 ppm	3.2055 ppm	0.0583 ppm
Concentration per Run 1	0.0010 ppm	0.0226 ppm	0.0572 ppm	0.0817 ppm	108.2301 ppm	3.2592 ppm	0.0594 ppm
Concentration per Run 2	0.0008 ppm	0.0228 ppm	0.0570 ppm	0.0818 ppm	106.2188 ppm	3.2355 ppm	0.0588 ppm
Concentration per Run 3	0.0007 ppm	0.0226 ppm	0.0574 ppm	0.0814 ppm	105.4922 ppm	3.1217 ppm	0.0568 ppm
Concentration RSD	16.7 %	0.4 %	0.4 %	0.3 %	1.3 %	2.3 %	2.4 %

	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	14.5762 ppm	1.6610 ppm	0.0058 ppm	0.4833 ppm	0.0457 ppm	0.0680 ppm	0.0012 ppm
Concentration per Run 1	14.5970 ppm	1.6880 ppm	0.0059 ppm	0.4980 ppm	0.0455 ppm	0.0696 ppm	0.0006 ppm
Concentration per Run 2	14.5793 ppm	1.6524 ppm	0.0058 ppm	0.4801 ppm	0.0459 ppm	0.0673 ppm	0.0008 ppm
Concentration per Run 3	14.5523 ppm	1.6425 ppm	0.0058 ppm	0.4718 ppm	0.0456 ppm	0.0671 ppm	0.0021 ppm
Concentration RSD	0.2 %	1.4 %	1.0 %	2.8 %	0.5 %	2.1 %	69.8 %

	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	0.0002 ppm	5.2694 ppm	0.0036 ppm	0.0511 ppm	1.4213 ppm	0.0000 ppm	0.0974 ppm
Concentration per Run 1	0.0018 ppm	5.3129 ppm	0.0035 ppm	0.0519 ppm	1.4158 ppm	-0.0004 ppm	0.0974 ppm
Concentration per Run 2	0.0000 ppm	5.2711 ppm	0.0038 ppm	0.0512 ppm	1.4294 ppm	0.0015 ppm	0.0974 ppm
Concentration per Run 3	-0.0012 ppm	5.2242 ppm	0.0036 ppm	0.0503 ppm	1.4187 ppm	-0.0010 ppm	0.0973 ppm
Concentration RSD	758.6 %	0.8 %	4.1 %	1.5 %	0.5 %	6,302.4 %	0.0 %

	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	0.1683 ppm	104.4266 %	101.2310 %	89.7329 %	113.6345 %	115.8550 %	113.2781 %
Concentration per Run 1	0.1681 ppm	104.0767 %	99.0749 %	89.7052 %	113.3595 %	114.2975 %	113.2702 %
Concentration per Run 2	0.1689 ppm	104.4159 %	102.5396 %	89.4262 %	113.4249 %	117.1221 %	112.9590 %
Concentration per Run 3	0.1678 ppm	104.7873 %	102.0785 %	90.0672 %	114.1189 %	116.1455 %	113.6053 %
Concentration RSD	0.3 %	0.3 %	1.9 %	0.4 %	0.4 %	1.2 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473518-03D2 WG2010479
Analysis started at: 12/18/2024 1:33:19 PM
Rack 2
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	0.0031 ppm	74.1981 ppm	0.0896 ppm	0.0243 ppm	1.2507 ppm	0.0035 ppm	106.7547 ppm
Concentration per Run 1	0.0029 ppm	74.3653 ppm	0.0911 ppm	0.0237 ppm	1.2541 ppm	0.0036 ppm	107.0018 ppm
Concentration per Run 2	0.0033 ppm	74.1299 ppm	0.0893 ppm	0.0238 ppm	1.2453 ppm	0.0034 ppm	105.6216 ppm
Concentration per Run 3	0.0032 ppm	74.0992 ppm	0.0882 ppm	0.0253 ppm	1.2527 ppm	0.0035 ppm	107.6407 ppm
Concentration RSD	7.1 %	0.2 %	1.6 %	3.7 %	0.4 %	1.8 %	1.0 %

	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	0.0089 ppm	0.0791 ppm	0.1782 ppm	1.0976 ppm	184.4066 ppm	8.6869 ppm	0.1397 ppm
Concentration per Run 1	0.0087 ppm	0.0794 ppm	0.1806 ppm	1.0966 ppm	184.5276 ppm	8.6723 ppm	0.1398 ppm
Concentration per Run 2	0.0090 ppm	0.0796 ppm	0.1772 ppm	1.0989 ppm	182.6270 ppm	8.7167 ppm	0.1402 ppm
Concentration per Run 3	0.0090 ppm	0.0782 ppm	0.1767 ppm	1.0973 ppm	186.0651 ppm	8.6718 ppm	0.1391 ppm
Concentration RSD	1.7 %	0.9 %	1.2 %	0.1 %	0.9 %	0.3 %	0.4 %

	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	29.5902 ppm	3.0112 ppm	0.0096 ppm	2.5771 ppm	0.1720 ppm	5.0294 ppm	0.0192 ppm
Concentration per Run 1	29.6298 ppm	3.0215 ppm	0.0097 ppm	2.5742 ppm	0.1726 ppm	5.0397 ppm	0.0180 ppm
Concentration per Run 2	29.4899 ppm	2.9829 ppm	0.0094 ppm	2.5911 ppm	0.1715 ppm	5.0252 ppm	0.0197 ppm
Concentration per Run 3	29.6509 ppm	3.0291 ppm	0.0097 ppm	2.5660 ppm	0.1717 ppm	5.0232 ppm	0.0198 ppm
Concentration RSD	0.3 %	0.8 %	1.8 %	0.5 %	0.4 %	0.2 %	5.1 %

	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	-0.0011 ppm	11.5850 ppm	0.1415 ppm	0.6164 ppm	2.9456 ppm	0.0015 ppm	0.2784 ppm
Concentration per Run 1	-0.0006 ppm	11.5975 ppm	0.1420 ppm	0.6189 ppm	2.9372 ppm	0.0019 ppm	0.2790 ppm
Concentration per Run 2	-0.0031 ppm	11.5983 ppm	0.1407 ppm	0.6140 ppm	2.9547 ppm	0.0006 ppm	0.2774 ppm
Concentration per Run 3	0.0003 ppm	11.5590 ppm	0.1418 ppm	0.6163 ppm	2.9449 ppm	0.0021 ppm	0.2788 ppm
Concentration RSD	160.6 %	0.2 %	0.5 %	0.4 %	0.3 %	52.8 %	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	2.9779 ppm	99.9075 %	102.7544 %	77.5258 %	109.8714 %	117.8907 %	108.5790 %
Concentration per Run 1	2.9787 ppm	99.7514 %	102.7815 %	77.5307 %	109.6514 %	117.8660 %	108.5235 %
Concentration per Run 2	2.9777 ppm	100.1254 %	103.8664 %	77.6451 %	110.0730 %	118.5457 %	108.6542 %
Concentration per Run 3	2.9774 ppm	99.8457 %	101.6154 %	77.4017 %	109.8896 %	117.2603 %	108.5593 %
Concentration RSD	0.0 %	0.2 %	1.1 %	0.2 %	0.2 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473518-04D2 WG2010479
Analysis started at: 12/18/2024 1:37:45 PM
Rack 2
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	-0.0010 ppm	49.4141 ppm	0.0193 ppm	0.0016 ppm	0.1246 ppm	0.0025 ppm	4.1393 ppm
Concentration per Run 1	-0.0008 ppm	49.4687 ppm	0.0189 ppm	0.0016 ppm	0.1250 ppm	0.0025 ppm	4.1921 ppm
Concentration per Run 2	-0.0007 ppm	49.3140 ppm	0.0189 ppm	0.0019 ppm	0.1239 ppm	0.0025 ppm	4.0906 ppm
Concentration per Run 3	-0.0014 ppm	49.4597 ppm	0.0202 ppm	0.0012 ppm	0.1248 ppm	0.0025 ppm	4.1352 ppm
Concentration RSD	36.8 %	0.2 %	3.6 %	23.1 %	0.5 %	1.5 %	1.2 %

	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	0.0021 ppm	0.0368 ppm	0.0639 ppm	0.0680 ppm	99.6525 ppm	3.1657 ppm	0.0818 ppm
Concentration per Run 1	0.0022 ppm	0.0367 ppm	0.0641 ppm	0.0683 ppm	99.9100 ppm	3.1506 ppm	0.0814 ppm
Concentration per Run 2	0.0021 ppm	0.0370 ppm	0.0645 ppm	0.0685 ppm	98.9582 ppm	3.1610 ppm	0.0825 ppm
Concentration per Run 3	0.0021 ppm	0.0368 ppm	0.0631 ppm	0.0671 ppm	100.0894 ppm	3.1856 ppm	0.0815 ppm
Concentration RSD	1.7 %	0.3 %	1.2 %	1.1 %	0.6 %	0.6 %	0.7 %

	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	17.5813 ppm	1.5488 ppm	0.0066 ppm	1.3560 ppm	0.0564 ppm	0.0456 ppm	0.0067 ppm
Concentration per Run 1	17.6281 ppm	1.5603 ppm	0.0063 ppm	1.3518 ppm	0.0565 ppm	0.0456 ppm	0.0077 ppm
Concentration per Run 2	17.6432 ppm	1.5369 ppm	0.0070 ppm	1.3525 ppm	0.0572 ppm	0.0456 ppm	0.0047 ppm
Concentration per Run 3	17.4727 ppm	1.5493 ppm	0.0064 ppm	1.3637 ppm	0.0556 ppm	0.0457 ppm	0.0076 ppm
Concentration RSD	0.5 %	0.8 %	5.7 %	0.5 %	1.4 %	0.1 %	25.7 %

	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	-0.0003 ppm	5.4941 ppm	0.0033 ppm	0.0519 ppm	1.5587 ppm	0.0003 ppm	0.0846 ppm
Concentration per Run 1	0.0002 ppm	5.6108 ppm	0.0031 ppm	0.0524 ppm	1.5647 ppm	0.0004 ppm	0.0851 ppm
Concentration per Run 2	0.0004 ppm	5.5957 ppm	0.0038 ppm	0.0513 ppm	1.5662 ppm	0.0000 ppm	0.0845 ppm
Concentration per Run 3	-0.0016 ppm	5.2759 ppm	0.0031 ppm	0.0519 ppm	1.5451 ppm	0.0005 ppm	0.0842 ppm
Concentration RSD	336.3 %	3.4 %	11.3 %	1.0 %	0.8 %	85.3 %	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	0.1977 ppm	102.1097 %	101.9032 %	86.3694 %	113.3858 %	116.9855 %	112.7903 %
Concentration per Run 1	0.1981 ppm	101.9083 %	101.0621 %	86.7155 %	113.3195 %	116.1977 %	113.2173 %
Concentration per Run 2	0.1991 ppm	102.0461 %	102.9987 %	86.0133 %	112.9263 %	117.9221 %	112.5086 %
Concentration per Run 3	0.1958 ppm	102.3745 %	101.6487 %	86.3794 %	113.9117 %	116.8368 %	112.6450 %
Concentration RSD	0.9 %	0.2 %	1.0 %	0.4 %	0.4 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473518-05D2 WG2010479
Analysis started at: 12/18/2024 1:43:27 PM
Rack 2
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	0.0008 ppm	116.2888 ppm	0.0662 ppm	0.0373 ppm	0.2302 ppm	0.0042 ppm	19.8457 ppm
Concentration per Run 1	0.0009 ppm	116.4827 ppm	0.0671 ppm	0.0364 ppm	0.2317 ppm	0.0042 ppm	20.0660 ppm
Concentration per Run 2	0.0008 ppm	116.2851 ppm	0.0648 ppm	0.0375 ppm	0.2290 ppm	0.0042 ppm	19.7483 ppm
Concentration per Run 3	0.0007 ppm	116.0986 ppm	0.0666 ppm	0.0380 ppm	0.2298 ppm	0.0042 ppm	19.7227 ppm
Concentration RSD	12.4 %	0.2 %	1.8 %	2.1 %	0.6 %	1.1 %	1.0 %

	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	0.0003 ppm	0.0465 ppm	0.2032 ppm	0.0940 ppm	160.2691 ppm	20.8031 ppm	0.3402 ppm
Concentration per Run 1	0.0003 ppm	0.0462 ppm	0.2037 ppm	0.0939 ppm	161.4153 ppm	20.7502 ppm	0.3375 ppm
Concentration per Run 2	0.0004 ppm	0.0468 ppm	0.2028 ppm	0.0940 ppm	159.5765 ppm	20.8896 ppm	0.3422 ppm
Concentration per Run 3	0.0003 ppm	0.0464 ppm	0.2030 ppm	0.0941 ppm	159.8154 ppm	20.7696 ppm	0.3409 ppm
Concentration RSD	16.4 %	0.6 %	0.2 %	0.1 %	0.6 %	0.4 %	0.7 %

	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	37.8944 ppm	1.7418 ppm	0.0217 ppm	2.6664 ppm	0.1211 ppm	0.1532 ppm	0.0023 ppm
Concentration per Run 1	37.8448 ppm	1.7545 ppm	0.0217 ppm	2.6635 ppm	0.1217 ppm	0.1557 ppm	0.0024 ppm
Concentration per Run 2	37.8407 ppm	1.7357 ppm	0.0217 ppm	2.6816 ppm	0.1205 ppm	0.1528 ppm	0.0007 ppm
Concentration per Run 3	37.9977 ppm	1.7351 ppm	0.0216 ppm	2.6540 ppm	0.1211 ppm	0.1512 ppm	0.0039 ppm
Concentration RSD	0.2 %	0.6 %	0.2 %	0.5 %	0.5 %	1.5 %	67.7 %

	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	0.0013 ppm	10.1236 ppm	0.0073 ppm	0.3345 ppm	4.6421 ppm	0.0028 ppm	0.3037 ppm
Concentration per Run 1	-0.0008 ppm	10.3416 ppm	0.0074 ppm	0.3345 ppm	4.6442 ppm	0.0026 ppm	0.3035 ppm
Concentration per Run 2	0.0027 ppm	9.9945 ppm	0.0071 ppm	0.3340 ppm	4.6295 ppm	0.0025 ppm	0.3036 ppm
Concentration per Run 3	0.0020 ppm	10.0346 ppm	0.0074 ppm	0.3350 ppm	4.6526 ppm	0.0032 ppm	0.3040 ppm
Concentration RSD	138.7 %	1.9 %	2.4 %	0.1 %	0.3 %	14.4 %	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	0.3125 ppm	104.1374 %	104.9405 %	79.2422 %	110.7846 %	116.8060 %	110.2409 %
Concentration per Run 1	0.3132 ppm	104.4510 %	103.9253 %	78.6615 %	111.2851 %	115.3021 %	109.9911 %
Concentration per Run 2	0.3123 ppm	104.0662 %	105.3974 %	79.4436 %	110.6494 %	117.2250 %	110.5774 %
Concentration per Run 3	0.3119 ppm	103.8950 %	105.4988 %	79.6216 %	110.4192 %	117.8910 %	110.1542 %
Concentration RSD	0.2 %	0.3 %	0.8 %	0.6 %	0.4 %	1.2 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473518-06D2 WG2010479
Analysis started at: 12/18/2024 1:48:09 PM
Rack 2
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	0.0013 ppm	130.8433 ppm	0.1212 ppm	0.0630 ppm	0.2301 ppm	0.0052 ppm	28.3720 ppm
Concentration per Run 1	0.0013 ppm	130.9836 ppm	0.1203 ppm	0.0645 ppm	0.2292 ppm	0.0050 ppm	28.3286 ppm
Concentration per Run 2	0.0013 ppm	130.8052 ppm	0.1218 ppm	0.0620 ppm	0.2307 ppm	0.0054 ppm	28.4385 ppm
Concentration per Run 3	0.0013 ppm	130.7410 ppm	0.1216 ppm	0.0624 ppm	0.2304 ppm	0.0051 ppm	28.3489 ppm
Concentration RSD	1.9 %	0.1 %	0.7 %	2.1 %	0.4 %	3.3 %	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	0.0006 ppm	0.0569 ppm	0.2175 ppm	0.1175 ppm	184.4799 ppm	24.2487 ppm	0.3443 ppm
Concentration per Run 1	0.0004 ppm	0.0572 ppm	0.2184 ppm	0.1176 ppm	183.9796 ppm	24.3220 ppm	0.3451 ppm
Concentration per Run 2	0.0007 ppm	0.0570 ppm	0.2174 ppm	0.1175 ppm	184.9651 ppm	24.1263 ppm	0.3440 ppm
Concentration per Run 3	0.0007 ppm	0.0565 ppm	0.2166 ppm	0.1173 ppm	184.4951 ppm	24.2978 ppm	0.3437 ppm
Concentration RSD	28.0 %	0.7 %	0.4 %	0.1 %	0.3 %	0.4 %	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	37.9422 ppm	3.0558 ppm	0.0455 ppm	2.8720 ppm	0.1300 ppm	0.2302 ppm	0.0010 ppm
Concentration per Run 1	38.1671 ppm	3.0475 ppm	0.0454 ppm	2.8819 ppm	0.1313 ppm	0.2315 ppm	0.0049 ppm
Concentration per Run 2	37.9079 ppm	3.0627 ppm	0.0457 ppm	2.8756 ppm	0.1294 ppm	0.2300 ppm	-0.0023 ppm
Concentration per Run 3	37.7515 ppm	3.0572 ppm	0.0455 ppm	2.8584 ppm	0.1292 ppm	0.2291 ppm	0.0004 ppm
Concentration RSD	0.6 %	0.3 %	0.2 %	0.4 %	0.9 %	0.5 %	382.5 %

	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	0.0017 ppm	5.7295 ppm	0.0187 ppm	0.2107 ppm	3.9519 ppm	0.0027 ppm	0.4013 ppm
Concentration per Run 1	0.0010 ppm	5.7602 ppm	0.0179 ppm	0.2097 ppm	3.9627 ppm	0.0025 ppm	0.4029 ppm
Concentration per Run 2	0.0015 ppm	5.7039 ppm	0.0196 ppm	0.2109 ppm	3.9420 ppm	0.0025 ppm	0.4013 ppm
Concentration per Run 3	0.0025 ppm	5.7245 ppm	0.0184 ppm	0.2116 ppm	3.9511 ppm	0.0030 ppm	0.3997 ppm
Concentration RSD	44.9 %	0.5 %	4.5 %	0.5 %	0.3 %	12.1 %	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	0.3701 ppm	101.3982 %	104.2317 %	77.3739 %	111.2805 %	119.4736 %	110.4963 %
Concentration per Run 1	0.3723 ppm	100.9803 %	104.6469 %	77.4205 %	111.4133 %	119.7434 %	110.8053 %
Concentration per Run 2	0.3704 ppm	101.4296 %	103.8066 %	77.0683 %	111.3779 %	119.6335 %	109.9610 %
Concentration per Run 3	0.3675 ppm	101.7847 %	104.2415 %	77.6331 %	111.0503 %	119.0439 %	110.7226 %
Concentration RSD	0.7 %	0.4 %	0.4 %	0.4 %	0.2 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473518-07D2 WG2010479
Analysis started at: 12/18/2024 1:52:35 PM
Rack 2
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	0.0001 ppm	44.3046 ppm	0.0180 ppm	0.0064 ppm	0.0671 ppm	0.0014 ppm	6.9296 ppm
Concentration per Run 1	0.0000 ppm	44.3389 ppm	0.0187 ppm	0.0071 ppm	0.0676 ppm	0.0014 ppm	6.9464 ppm
Concentration per Run 2	0.0002 ppm	44.6657 ppm	0.0177 ppm	0.0052 ppm	0.0667 ppm	0.0015 ppm	7.0037 ppm
Concentration per Run 3	0.0002 ppm	43.9091 ppm	0.0178 ppm	0.0070 ppm	0.0669 ppm	0.0013 ppm	6.8388 ppm
Concentration RSD	123.5 %	0.9 %	3.2 %	17.3 %	0.8 %	5.7 %	1.2 %

	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	0.0234 ppm	0.0869 ppm	0.0363 ppm	64.2991 ppm	5.1788 ppm	0.1688 ppm
Concentration per Run 1	-0.0001 ppm	0.0233 ppm	0.0874 ppm	0.0362 ppm	64.6756 ppm	5.2206 ppm	0.1687 ppm
Concentration per Run 2	0.0001 ppm	0.0229 ppm	0.0863 ppm	0.0364 ppm	64.1635 ppm	5.1011 ppm	0.1686 ppm
Concentration per Run 3	-0.0001 ppm	0.0240 ppm	0.0870 ppm	0.0364 ppm	64.0582 ppm	5.2145 ppm	0.1691 ppm
Concentration RSD	295.6 %	2.6 %	0.7 %	0.3 %	0.5 %	1.3 %	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	17.7556 ppm	0.5748 ppm	0.0070 ppm	0.6000 ppm	0.0655 ppm	0.0253 ppm	0.0004 ppm
Concentration per Run 1	17.8338 ppm	0.5789 ppm	0.0070 ppm	0.5973 ppm	0.0661 ppm	0.0256 ppm	-0.0004 ppm
Concentration per Run 2	17.7052 ppm	0.5742 ppm	0.0070 ppm	0.6075 ppm	0.0653 ppm	0.0248 ppm	-0.0002 ppm
Concentration per Run 3	17.7277 ppm	0.5713 ppm	0.0072 ppm	0.5952 ppm	0.0649 ppm	0.0254 ppm	0.0018 ppm
Concentration RSD	0.4 %	0.7 %	1.6 %	1.1 %	1.0 %	1.6 %	298.9 %

	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	0.0016 ppm	3.5150 ppm	0.0030 ppm	0.0332 ppm	2.2323 ppm	0.0007 ppm	0.1028 ppm
Concentration per Run 1	-0.0017 ppm	3.5421 ppm	0.0026 ppm	0.0333 ppm	2.2259 ppm	0.0005 ppm	0.1037 ppm
Concentration per Run 2	0.0035 ppm	3.4912 ppm	0.0030 ppm	0.0333 ppm	2.2231 ppm	0.0019 ppm	0.1020 ppm
Concentration per Run 3	0.0029 ppm	3.5116 ppm	0.0034 ppm	0.0329 ppm	2.2479 ppm	-0.0003 ppm	0.1026 ppm
Concentration RSD	182.3 %	0.7 %	12.0 %	0.7 %	0.6 %	166.1 %	0.8 %

	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	0.1314 ppm	102.1821 %	102.7339 %	85.8648 %	101.2987 %	105.3595 %	100.9142 %
Concentration per Run 1	0.1327 ppm	101.7776 %	102.5455 %	85.7256 %	101.5495 %	105.7947 %	100.6405 %
Concentration per Run 2	0.1297 ppm	102.4388 %	102.1618 %	86.0974 %	101.3209 %	104.3886 %	101.1721 %
Concentration per Run 3	0.1318 ppm	102.3299 %	103.4945 %	85.7714 %	101.0256 %	105.8951 %	100.9299 %
Concentration RSD	1.2 %	0.3 %	0.7 %	0.2 %	0.3 %	0.8 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCV
Analysis started at: 12/18/2024 1:57:02 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	0.4723 ppm	0.4705 ppm	0.4717 ppm	0.4725 ppm	0.4859 ppm	0.4992 ppm	0.4807 ppm
Concentration per Run 1	0.4752 ppm	0.4691 ppm	0.4756 ppm	0.4755 ppm	0.4818 ppm	0.4996 ppm	0.4808 ppm
Concentration per Run 2	0.4728 ppm	0.4687 ppm	0.4669 ppm	0.4736 ppm	0.4861 ppm	0.4990 ppm	0.4825 ppm
Concentration per Run 3	0.4690 ppm	0.4736 ppm	0.4726 ppm	0.4684 ppm	0.4900 ppm	0.4992 ppm	0.4789 ppm
Recovery Percentage 1	94.464 %	94.097 %	94.341 %	94.497 %	97.189 %	99.848 %	96.139 %
Concentration RSD	0.7 %	0.6 %	0.9 %	0.8 %	0.8 %	0.1 %	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	0.4828 ppm	0.4981 ppm	0.4804 ppm	0.4803 ppm	0.5037 ppm	5.1558 ppm	0.4987 ppm
Concentration per Run 1	0.4870 ppm	0.5012 ppm	0.4843 ppm	0.4832 ppm	0.5038 ppm	5.0785 ppm	0.4870 ppm
Concentration per Run 2	0.4846 ppm	0.4998 ppm	0.4820 ppm	0.4813 ppm	0.5040 ppm	5.1500 ppm	0.4999 ppm
Concentration per Run 3	0.4770 ppm	0.4932 ppm	0.4750 ppm	0.4765 ppm	0.5033 ppm	5.2391 ppm	0.5092 ppm
Recovery Percentage 1	96.567 %	99.611 %	96.083 %	96.066 %	100.737 %	103.117 %	99.739 %
Concentration RSD	1.1 %	0.9 %	1.0 %	0.7 %	0.1 %	1.6 %	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	0.4829 ppm	0.4799 ppm	0.4887 ppm	10.0729 ppm	0.4978 ppm	0.4844 ppm	0.4876 ppm
Concentration per Run 1	0.4855 ppm	0.4816 ppm	0.4893 ppm	9.8151 ppm	0.5008 ppm	0.4860 ppm	0.4943 ppm
Concentration per Run 2	0.4856 ppm	0.4803 ppm	0.4898 ppm	10.1729 ppm	0.5016 ppm	0.4845 ppm	0.4884 ppm
Concentration per Run 3	0.4775 ppm	0.4780 ppm	0.4870 ppm	10.2308 ppm	0.4910 ppm	0.4826 ppm	0.4799 ppm
Recovery Percentage 1	96.572 %	95.989 %	97.740 %	100.729 %	99.558 %	96.876 %	97.513 %
Concentration RSD	1.0 %	0.4 %	0.3 %	2.2 %	1.2 %	0.4 %	1.5 %

	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	0.4795 ppm	5.3727 ppm	0.5009 ppm	0.5182 ppm	0.4824 ppm	0.4817 ppm	0.4865 ppm
Concentration per Run 1	0.4836 ppm	5.3995 ppm	0.5039 ppm	0.5164 ppm	0.4860 ppm	0.4847 ppm	0.4901 ppm
Concentration per Run 2	0.4785 ppm	5.3875 ppm	0.5033 ppm	0.5169 ppm	0.4833 ppm	0.4801 ppm	0.4873 ppm
Concentration per Run 3	0.4765 ppm	5.3312 ppm	0.4954 ppm	0.5211 ppm	0.4779 ppm	0.4803 ppm	0.4822 ppm
Recovery Percentage 1	95.907 %	102.338 %	100.171 %	103.633 %	96.480 %	96.336 %	97.307 %
Concentration RSD	0.8 %	0.7 %	0.9 %	0.5 %	0.9 %	0.5 %	0.8 %

	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	0.4866 ppm	101.7215 %	100.2294 %	93.5951 %	96.6259 %	98.0548 %	96.3834 %
Concentration per Run 1	0.4903 ppm	100.8310 %	99.7860 %	93.0200 %	96.0074 %	97.4664 %	96.2989 %
Concentration per Run 2	0.4897 ppm	101.6339 %	100.1032 %	93.3494 %	96.6255 %	97.9725 %	96.2357 %
Concentration per Run 3	0.4799 ppm	102.6996 %	100.7989 %	94.4159 %	97.2448 %	98.7256 %	96.6156 %
Recovery Percentage 1	97.322 %						
Concentration RSD	1.2 %	0.9 %	0.5 %	0.8 %	0.6 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCB
Analysis started at: 12/18/2024 2:01:28 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	-0.0074 ppm	0.0008 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm
Concentration per Run 1	-0.0001 ppm	-0.0086 ppm	0.0004 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 2	-0.0002 ppm	-0.0027 ppm	0.0011 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 3	-0.0002 ppm	-0.0110 ppm	0.0010 ppm	0.0004 ppm	-0.0001 ppm	0.0000 ppm	-0.0008 ppm
Recovery Percentage 1	-3.537 %	-7.443 %	16.425 %	-0.174 %	-0.443 %	0.731 %	-0.303 %
Concentration RSD	23.9 %	57.7 %	50.7 %	755.4 %	100.0 %	25.6 %	131.1 %

	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	0.0003 ppm	0.0001 ppm	-0.0004 ppm	0.0025 ppm	0.0162 ppm	0.0005 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0001 ppm	-0.0005 ppm	0.0029 ppm	0.0254 ppm	0.0004 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0002 ppm	-0.0005 ppm	0.0029 ppm	0.0049 ppm	0.0009 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0000 ppm	-0.0003 ppm	0.0017 ppm	0.0182 ppm	0.0003 ppm
Recovery Percentage 1	1.023 %	2.522 %	0.846 %	-4.128 %	5.006 %	0.647 %	5.457 %
Concentration RSD	114.7 %	107.5 %	95.8 %	23.6 %	28.3 %	64.4 %	53.9 %

	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	-0.0001 ppm	0.0001 ppm	0.0037 ppm	0.0108 ppm	0.0004 ppm	0.0002 ppm	0.0004 ppm
Concentration per Run 1	-0.0008 ppm	0.0000 ppm	0.0037 ppm	0.0113 ppm	-0.0009 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	0.0033 ppm	0.0109 ppm	0.0010 ppm	0.0001 ppm	0.0005 ppm
Concentration per Run 3	0.0004 ppm	0.0002 ppm	0.0040 ppm	0.0101 ppm	0.0010 ppm	-0.0002 ppm	0.0008 ppm
Recovery Percentage 1	-0.112 %	0.703 %	7.346 %	0.539 %	1.560 %	1.886 %	0.845 %
Concentration RSD	574.2 %	163.9 %	9.3 %	6.1 %	287.4 %	224.0 %	101.0 %

	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	0.0002 ppm	0.0052 ppm	0.0006 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 1	0.0014 ppm	0.0055 ppm	0.0004 ppm	0.0001 ppm	0.0003 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run 2	0.0016 ppm	0.0041 ppm	0.0003 ppm	0.0001 ppm	0.0003 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 3	-0.0024 ppm	0.0060 ppm	0.0010 ppm	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm
Recovery Percentage 1	1.919 %	1.038 %	1.102 %	0.424 %	3.284 %	0.629 %	-0.142 %
Concentration RSD	1,173.8 %	19.0 %	75.9 %	84.4 %	5.2 %	346.7 %	251.2 %

	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	0.0002 ppm	100.9299 %	100.8364 %	94.7113 %	98.4633 %	99.7842 %	97.6946 %
Concentration per Run 1	0.0000 ppm	100.1686 %	100.0489 %	94.1460 %	98.6366 %	99.5040 %	97.5514 %
Concentration per Run 2	0.0004 ppm	101.2941 %	101.2236 %	94.8218 %	98.6859 %	99.9086 %	97.7554 %
Concentration per Run 3	0.0003 ppm	101.3270 %	101.2366 %	95.1659 %	98.0673 %	99.9401 %	97.7769 %
Recovery Percentage 1	4.672 %						
Concentration RSD	73.1 %	0.7 %	0.7 %	0.5 %	0.3 %	0.2 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473781-01D2 WG2010479
Analysis started at: 12/18/2024 2:10:03 PM
Rack 2
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	0.0048 ppm	81.2195 ppm	0.0895 ppm	0.0137 ppm	0.5091 ppm	0.0027 ppm	23.5274 ppm
Concentration per Run 1	0.0047 ppm	81.5030 ppm	0.0905 ppm	0.0132 ppm	0.5092 ppm	0.0027 ppm	23.8183 ppm
Concentration per Run 2	0.0049 ppm	81.2933 ppm	0.0890 ppm	0.0139 ppm	0.5098 ppm	0.0027 ppm	23.2440 ppm
Concentration per Run 3	0.0048 ppm	80.8622 ppm	0.0888 ppm	0.0139 ppm	0.5083 ppm	0.0027 ppm	23.5199 ppm
Concentration RSD	2.5 %	0.4 %	1.1 %	2.8 %	0.1 %	1.4 %	1.2 %

	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	0.0027 ppm	0.0518 ppm	0.1996 ppm	0.2473 ppm	164.6724 ppm	17.5907 ppm	0.1574 ppm
Concentration per Run 1	0.0028 ppm	0.0522 ppm	0.2000 ppm	0.2480 ppm	166.5317 ppm	17.5550 ppm	0.1560 ppm
Concentration per Run 2	0.0027 ppm	0.0517 ppm	0.1994 ppm	0.2459 ppm	163.3011 ppm	17.7052 ppm	0.1589 ppm
Concentration per Run 3	0.0026 ppm	0.0516 ppm	0.1995 ppm	0.2479 ppm	164.1845 ppm	17.5120 ppm	0.1571 ppm
Concentration RSD	3.8 %	0.6 %	0.2 %	0.5 %	1.0 %	0.6 %	0.9 %

	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	37.1309 ppm	1.9179 ppm	0.0068 ppm	1.9240 ppm	0.1417 ppm	0.8472 ppm	0.0044 ppm
Concentration per Run 1	37.1427 ppm	1.9372 ppm	0.0069 ppm	1.9183 ppm	0.1411 ppm	0.8522 ppm	0.0046 ppm
Concentration per Run 2	37.0932 ppm	1.9001 ppm	0.0066 ppm	1.9375 ppm	0.1434 ppm	0.8461 ppm	0.0032 ppm
Concentration per Run 3	37.1568 ppm	1.9165 ppm	0.0068 ppm	1.9163 ppm	0.1406 ppm	0.8434 ppm	0.0055 ppm
Concentration RSD	0.1 %	1.0 %	2.3 %	0.6 %	1.1 %	0.5 %	26.1 %

	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	0.0006 ppm	6.0397 ppm	0.7150 ppm	0.1545 ppm	4.5639 ppm	0.0028 ppm	0.2254 ppm
Concentration per Run 1	0.0006 ppm	6.1491 ppm	0.7154 ppm	0.1549 ppm	4.5674 ppm	0.0040 ppm	0.2256 ppm
Concentration per Run 2	-0.0005 ppm	5.9847 ppm	0.7113 ppm	0.1545 ppm	4.5755 ppm	0.0020 ppm	0.2254 ppm
Concentration per Run 3	0.0018 ppm	5.9854 ppm	0.7182 ppm	0.1540 ppm	4.5488 ppm	0.0025 ppm	0.2252 ppm
Concentration RSD	186.9 %	1.6 %	0.5 %	0.3 %	0.3 %	37.0 %	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	0.7854 ppm	102.7220 %	104.4354 %	78.5711 %	109.9583 %	116.8915 %	108.6812 %
Concentration per Run 1	0.7866 ppm	102.7840 %	103.3446 %	78.2795 %	110.1936 %	116.3061 %	108.4287 %
Concentration per Run 2	0.7868 ppm	102.9388 %	105.7302 %	78.6893 %	110.0711 %	117.7329 %	109.0579 %
Concentration per Run 3	0.7828 ppm	102.4430 %	104.2314 %	78.7444 %	109.6101 %	116.6356 %	108.5569 %
Concentration RSD	0.3 %	0.2 %	1.2 %	0.3 %	0.3 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472606-01D2 WG2010479
Analysis started at: 12/18/2024 2:14:37 PM
Rack 2
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	0.0027 ppm	66.2228 ppm	0.0827 ppm	0.0078 ppm	1.4791 ppm	0.0035 ppm	14.5902 ppm
Concentration per Run 1	0.0025 ppm	66.0946 ppm	0.0825 ppm	0.0083 ppm	1.4752 ppm	0.0035 ppm	14.5601 ppm
Concentration per Run 2	0.0028 ppm	66.3676 ppm	0.0842 ppm	0.0072 ppm	1.4874 ppm	0.0034 ppm	14.5149 ppm
Concentration per Run 3	0.0026 ppm	66.2061 ppm	0.0814 ppm	0.0078 ppm	1.4746 ppm	0.0035 ppm	14.6956 ppm
Concentration RSD	5.5 %	0.2 %	1.7 %	7.4 %	0.5 %	1.4 %	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	0.0065 ppm	0.0506 ppm	0.1669 ppm	0.9881 ppm	142.1487 ppm	7.3981 ppm	0.0930 ppm
Concentration per Run 1	0.0067 ppm	0.0504 ppm	0.1681 ppm	0.9979 ppm	141.6385 ppm	7.3468 ppm	0.0934 ppm
Concentration per Run 2	0.0066 ppm	0.0508 ppm	0.1663 ppm	0.9939 ppm	142.2424 ppm	7.5095 ppm	0.0931 ppm
Concentration per Run 3	0.0064 ppm	0.0505 ppm	0.1664 ppm	0.9726 ppm	142.5652 ppm	7.3379 ppm	0.0925 ppm
Concentration RSD	2.1 %	0.4 %	0.6 %	1.4 %	0.3 %	1.3 %	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	19.2157 ppm	1.9561 ppm	0.0122 ppm	0.7098 ppm	0.1283 ppm	3.3209 ppm	0.0205 ppm
Concentration per Run 1	19.2450 ppm	1.9573 ppm	0.0122 ppm	0.6969 ppm	0.1283 ppm	3.4064 ppm	0.0211 ppm
Concentration per Run 2	19.2474 ppm	1.9468 ppm	0.0123 ppm	0.7185 ppm	0.1286 ppm	3.4090 ppm	0.0206 ppm
Concentration per Run 3	19.1547 ppm	1.9641 ppm	0.0120 ppm	0.7139 ppm	0.1281 ppm	3.1472 ppm	0.0200 ppm
Concentration RSD	0.3 %	0.4 %	1.1 %	1.6 %	0.2 %	4.5 %	2.7 %

	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	0.0045 ppm	7.4399 ppm	0.6879 ppm	0.1612 ppm	3.1794 ppm	0.0003 ppm	0.1955 ppm
Concentration per Run 1	0.0045 ppm	7.5199 ppm	0.6951 ppm	0.1606 ppm	3.1785 ppm	0.0010 ppm	0.1960 ppm
Concentration per Run 2	0.0046 ppm	7.4902 ppm	0.6876 ppm	0.1621 ppm	3.1907 ppm	-0.0008 ppm	0.1962 ppm
Concentration per Run 3	0.0044 ppm	7.3096 ppm	0.6810 ppm	0.1610 ppm	3.1690 ppm	0.0006 ppm	0.1942 ppm
Concentration RSD	2.4 %	1.5 %	1.0 %	0.5 %	0.3 %	359.2 %	0.6 %

	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	2.7509 ppm	102.4200 %	104.2496 %	83.0310 %	109.2674 %	116.4974 %	109.2031 %
Concentration per Run 1	2.7688 ppm	102.3360 %	104.5283 %	81.2468 %	109.3746 %	116.6285 %	108.3440 %
Concentration per Run 2	2.7458 ppm	102.5117 %	104.6500 %	80.7068 %	109.2432 %	116.6319 %	107.6108 %
Concentration per Run 3	2.7381 ppm	102.4122 %	103.5706 %	87.1394 %	109.1845 %	116.2318 %	111.6545 %
Concentration RSD	0.6 %	0.1 %	0.6 %	4.3 %	0.1 %	0.2 %	2.0 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472777-01D2 WG2010479
Analysis started at: 12/18/2024 2:19:04 PM
Rack 2
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	0.0013 ppm	140.1180 ppm	0.0596 ppm	0.0193 ppm	0.7614 ppm	0.0058 ppm	56.7441 ppm
Concentration per Run 1	0.0013 ppm	140.6280 ppm	0.0613 ppm	0.0192 ppm	0.7606 ppm	0.0059 ppm	56.7182 ppm
Concentration per Run 2	0.0009 ppm	140.6538 ppm	0.0575 ppm	0.0204 ppm	0.7639 ppm	0.0058 ppm	57.1214 ppm
Concentration per Run 3	0.0016 ppm	139.0721 ppm	0.0600 ppm	0.0182 ppm	0.7596 ppm	0.0057 ppm	56.3927 ppm
Concentration RSD	28.6 %	0.6 %	3.3 %	5.5 %	0.3 %	1.5 %	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	0.0009 ppm	0.0790 ppm	0.2194 ppm	0.4496 ppm	195.6527 ppm	19.6069 ppm	0.1989 ppm
Concentration per Run 1	0.0005 ppm	0.0791 ppm	0.2202 ppm	0.4503 ppm	195.0478 ppm	19.5880 ppm	0.1999 ppm
Concentration per Run 2	0.0007 ppm	0.0790 ppm	0.2193 ppm	0.4490 ppm	196.4240 ppm	19.6756 ppm	0.1987 ppm
Concentration per Run 3	0.0013 ppm	0.0790 ppm	0.2186 ppm	0.4496 ppm	195.4862 ppm	19.5572 ppm	0.1980 ppm
Concentration RSD	46.5 %	0.1 %	0.4 %	0.1 %	0.4 %	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	52.2771 ppm	3.6817 ppm	0.0074 ppm	3.2999 ppm	0.1537 ppm	2.9271 ppm	0.8232 ppm
Concentration per Run 1	52.4901 ppm	3.6706 ppm	0.0073 ppm	3.3129 ppm	0.1537 ppm	2.9396 ppm	0.8268 ppm
Concentration per Run 2	52.3387 ppm	3.7040 ppm	0.0072 ppm	3.3165 ppm	0.1546 ppm	2.9155 ppm	0.8256 ppm
Concentration per Run 3	52.0025 ppm	3.6706 ppm	0.0077 ppm	3.2704 ppm	0.1529 ppm	2.9261 ppm	0.8172 ppm
Concentration RSD	0.5 %	0.5 %	3.5 %	0.8 %	0.6 %	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	0.0002 ppm	12.9302 ppm	3.4382 ppm	0.2217 ppm	5.8978 ppm	0.0033 ppm	0.2975 ppm
Concentration per Run 1	0.0002 ppm	12.9273 ppm	3.4344 ppm	0.2212 ppm	5.9368 ppm	0.0028 ppm	0.2996 ppm
Concentration per Run 2	0.0001 ppm	12.8838 ppm	3.4527 ppm	0.2234 ppm	5.9009 ppm	0.0044 ppm	0.2974 ppm
Concentration per Run 3	0.0004 ppm	12.9796 ppm	3.4274 ppm	0.2204 ppm	5.8557 ppm	0.0028 ppm	0.2955 ppm
Concentration RSD	73.7 %	0.4 %	0.4 %	0.7 %	0.7 %	26.7 %	0.7 %

	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	0.8378 ppm	101.6132 %	104.3163 %	72.7995 %	113.3283 %	121.7231 %	112.3961 %
Concentration per Run 1	0.8395 ppm	101.2385 %	104.3168 %	72.1660 %	113.2905 %	121.7125 %	112.0232 %
Concentration per Run 2	0.8397 ppm	101.8525 %	103.7473 %	73.1442 %	113.6118 %	121.0972 %	112.6291 %
Concentration per Run 3	0.8343 ppm	101.7485 %	104.8847 %	73.0883 %	113.0826 %	122.3597 %	112.5359 %
Concentration RSD	0.4 %	0.3 %	0.5 %	0.8 %	0.2 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472777-03D2 WG2010479
Analysis started at: 12/18/2024 2:23:30 PM
Rack 2
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	0.0019 ppm	84.5813 ppm	0.0546 ppm	0.0216 ppm	0.6819 ppm	0.0032 ppm	81.4905 ppm
Concentration per Run 1	0.0017 ppm	84.2954 ppm	0.0540 ppm	0.0228 ppm	0.6800 ppm	0.0032 ppm	80.8843 ppm
Concentration per Run 2	0.0017 ppm	84.4786 ppm	0.0541 ppm	0.0213 ppm	0.6823 ppm	0.0032 ppm	81.5294 ppm
Concentration per Run 3	0.0022 ppm	84.9699 ppm	0.0557 ppm	0.0207 ppm	0.6834 ppm	0.0032 ppm	82.0578 ppm
Concentration RSD	15.4 %	0.4 %	1.8 %	4.8 %	0.3 %	0.8 %	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	0.0016 ppm	0.0664 ppm	0.1891 ppm	0.9708 ppm	178.4789 ppm	8.7808 ppm	0.1374 ppm
Concentration per Run 1	0.0014 ppm	0.0673 ppm	0.1900 ppm	0.9763 ppm	177.2116 ppm	8.7278 ppm	0.1377 ppm
Concentration per Run 2	0.0017 ppm	0.0656 ppm	0.1871 ppm	0.9644 ppm	179.3262 ppm	8.8337 ppm	0.1370 ppm
Concentration per Run 3	0.0017 ppm	0.0664 ppm	0.1903 ppm	0.9718 ppm	178.8988 ppm	8.7809 ppm	0.1374 ppm
Concentration RSD	11.9 %	1.3 %	1.0 %	0.6 %	0.6 %	0.6 %	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	43.2550 ppm	2.9744 ppm	0.0048 ppm	3.5860 ppm	0.1584 ppm	4.9373 ppm	0.0125 ppm
Concentration per Run 1	43.3887 ppm	2.9573 ppm	0.0046 ppm	3.5724 ppm	0.1590 ppm	4.9549 ppm	0.0115 ppm
Concentration per Run 2	42.9344 ppm	2.9824 ppm	0.0046 ppm	3.5855 ppm	0.1573 ppm	4.9499 ppm	0.0133 ppm
Concentration per Run 3	43.4419 ppm	2.9833 ppm	0.0053 ppm	3.6002 ppm	0.1589 ppm	4.9071 ppm	0.0127 ppm
Concentration RSD	0.6 %	0.5 %	8.3 %	0.4 %	0.6 %	0.5 %	7.6 %

	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	0.0016 ppm	9.0445 ppm	0.1949 ppm	0.2966 ppm	3.1153 ppm	0.0005 ppm	0.2157 ppm
Concentration per Run 1	0.0018 ppm	9.1770 ppm	0.1951 ppm	0.2962 ppm	3.1339 ppm	0.0002 ppm	0.2180 ppm
Concentration per Run 2	0.0012 ppm	9.0847 ppm	0.1916 ppm	0.2974 ppm	3.1021 ppm	0.0017 ppm	0.2144 ppm
Concentration per Run 3	0.0018 ppm	8.8718 ppm	0.1981 ppm	0.2961 ppm	3.1099 ppm	-0.0006 ppm	0.2146 ppm
Concentration RSD	21.6 %	1.7 %	1.7 %	0.2 %	0.5 %	259.3 %	0.9 %

	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	1.7914 ppm	100.0654 %	102.9279 %	77.0556 %	109.4537 %	117.8341 %	107.7438 %
Concentration per Run 1	1.8016 ppm	99.6306 %	103.7385 %	76.8605 %	109.6066 %	118.7628 %	107.5961 %
Concentration per Run 2	1.7650 ppm	100.3984 %	102.8617 %	76.9223 %	109.6375 %	117.2217 %	107.5176 %
Concentration per Run 3	1.8075 ppm	100.1672 %	102.1833 %	77.3840 %	109.1169 %	117.5178 %	108.1178 %
Concentration RSD	1.3 %	0.4 %	0.8 %	0.4 %	0.3 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472777-05D2 WG2010479
Analysis started at: 12/18/2024 2:27:56 PM
Rack 2
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	0.0022 ppm	132.9361 ppm	0.0478 ppm	0.0188 ppm	0.6538 ppm	0.0060 ppm	49.2928 ppm
Concentration per Run 1	0.0021 ppm	133.6899 ppm	0.0490 ppm	0.0180 ppm	0.6564 ppm	0.0061 ppm	49.3983 ppm
Concentration per Run 2	0.0022 ppm	133.0473 ppm	0.0453 ppm	0.0202 ppm	0.6547 ppm	0.0060 ppm	49.2544 ppm
Concentration per Run 3	0.0023 ppm	132.0711 ppm	0.0490 ppm	0.0181 ppm	0.6504 ppm	0.0060 ppm	49.2256 ppm
Concentration RSD	5.2 %	0.6 %	4.4 %	6.6 %	0.5 %	0.6 %	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	0.0008 ppm	0.0582 ppm	0.1626 ppm	0.2821 ppm	149.2977 ppm	9.9414 ppm	0.1762 ppm
Concentration per Run 1	0.0008 ppm	0.0578 ppm	0.1620 ppm	0.2848 ppm	150.1913 ppm	9.9462 ppm	0.1777 ppm
Concentration per Run 2	0.0007 ppm	0.0588 ppm	0.1634 ppm	0.2817 ppm	148.3851 ppm	9.9866 ppm	0.1765 ppm
Concentration per Run 3	0.0009 ppm	0.0578 ppm	0.1622 ppm	0.2797 ppm	149.3166 ppm	9.8915 ppm	0.1745 ppm
Concentration RSD	12.3 %	1.0 %	0.4 %	0.9 %	0.6 %	0.5 %	0.9 %

	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	36.8360 ppm	2.4150 ppm	0.0058 ppm	3.3528 ppm	0.1158 ppm	1.8496 ppm	0.0016 ppm
Concentration per Run 1	36.7560 ppm	2.4258 ppm	0.0058 ppm	3.3616 ppm	0.1155 ppm	1.8520 ppm	0.0009 ppm
Concentration per Run 2	36.9689 ppm	2.4114 ppm	0.0059 ppm	3.3832 ppm	0.1159 ppm	1.8148 ppm	0.0034 ppm
Concentration per Run 3	36.7830 ppm	2.4076 ppm	0.0058 ppm	3.3135 ppm	0.1160 ppm	1.8819 ppm	0.0006 ppm
Concentration RSD	0.3 %	0.4 %	1.1 %	1.1 %	0.2 %	1.8 %	92.8 %

	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	0.0029 ppm	7.2219 ppm	0.0361 ppm	0.2062 ppm	4.2602 ppm	0.0020 ppm	0.2462 ppm
Concentration per Run 1	0.0036 ppm	7.3648 ppm	0.0355 ppm	0.2072 ppm	4.2785 ppm	0.0029 ppm	0.2473 ppm
Concentration per Run 2	0.0040 ppm	7.3027 ppm	0.0365 ppm	0.2062 ppm	4.2684 ppm	0.0012 ppm	0.2467 ppm
Concentration per Run 3	0.0009 ppm	6.9981 ppm	0.0363 ppm	0.2052 ppm	4.2338 ppm	0.0020 ppm	0.2447 ppm
Concentration RSD	58.8 %	2.7 %	1.5 %	0.5 %	0.6 %	41.7 %	0.6 %

	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	0.7124 ppm	101.1579 %	103.9418 %	76.6444 %	118.6793 %	128.9055 %	116.7548 %
Concentration per Run 1	0.7060 ppm	100.9827 %	104.0581 %	76.4367 %	119.3756 %	129.4409 %	117.7921 %
Concentration per Run 2	0.7182 ppm	101.1647 %	104.0323 %	78.1222 %	118.4542 %	129.0536 %	119.2044 %
Concentration per Run 3	0.7130 ppm	101.3264 %	103.7352 %	75.3741 %	118.2081 %	128.2221 %	113.2680 %
Concentration RSD	0.9 %	0.2 %	0.2 %	1.8 %	0.5 %	0.5 %	2.7 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472777-07D2 WG2010479
Analysis started at: 12/18/2024 2:32:22 PM
Rack 2
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	0.0034 ppm	126.2161 ppm	0.0901 ppm	0.0228 ppm	1.4452 ppm	0.0053 ppm	105.2763 ppm
Concentration per Run 1	0.0028 ppm	126.4681 ppm	0.0903 ppm	0.0238 ppm	1.4538 ppm	0.0053 ppm	105.5208 ppm
Concentration per Run 2	0.0039 ppm	125.9919 ppm	0.0892 ppm	0.0227 ppm	1.4404 ppm	0.0052 ppm	105.3184 ppm
Concentration per Run 3	0.0035 ppm	126.1883 ppm	0.0908 ppm	0.0218 ppm	1.4415 ppm	0.0053 ppm	104.9898 ppm
Concentration RSD	16.2 %	0.2 %	0.9 %	4.4 %	0.5 %	0.8 %	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	0.0018 ppm	0.1094 ppm	0.1730 ppm	0.5396 ppm	192.6137 ppm	12.9892 ppm	0.1806 ppm
Concentration per Run 1	0.0017 ppm	0.1096 ppm	0.1743 ppm	0.5380 ppm	193.3779 ppm	13.0329 ppm	0.1821 ppm
Concentration per Run 2	0.0020 ppm	0.1090 ppm	0.1721 ppm	0.5414 ppm	192.6888 ppm	12.9600 ppm	0.1804 ppm
Concentration per Run 3	0.0017 ppm	0.1095 ppm	0.1727 ppm	0.5394 ppm	191.7743 ppm	12.9746 ppm	0.1793 ppm
Concentration RSD	8.7 %	0.3 %	0.7 %	0.3 %	0.4 %	0.3 %	0.8 %

	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	38.9739 ppm	4.9438 ppm	0.0087 ppm	9.7958 ppm	0.1260 ppm	9.6098 ppm	0.0093 ppm
Concentration per Run 1	39.0992 ppm	4.9580 ppm	0.0088 ppm	9.8720 ppm	0.1266 ppm	9.6291 ppm	0.0069 ppm
Concentration per Run 2	38.7385 ppm	4.9412 ppm	0.0088 ppm	9.7424 ppm	0.1249 ppm	9.6139 ppm	0.0084 ppm
Concentration per Run 3	39.0840 ppm	4.9321 ppm	0.0086 ppm	9.7730 ppm	0.1267 ppm	9.5863 ppm	0.0125 ppm
Concentration RSD	0.5 %	0.3 %	1.2 %	0.7 %	0.8 %	0.2 %	31.6 %

	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	0.0048 ppm	7.4208 ppm	0.3173 ppm	0.2786 ppm	4.3624 ppm	0.0001 ppm	0.2788 ppm
Concentration per Run 1	0.0052 ppm	7.3176 ppm	0.3179 ppm	0.2803 ppm	4.3658 ppm	0.0000 ppm	0.2809 ppm
Concentration per Run 2	0.0054 ppm	7.4821 ppm	0.3170 ppm	0.2780 ppm	4.3476 ppm	0.0013 ppm	0.2773 ppm
Concentration per Run 3	0.0037 ppm	7.4628 ppm	0.3169 ppm	0.2774 ppm	4.3737 ppm	-0.0011 ppm	0.2782 ppm
Concentration RSD	19.6 %	1.2 %	0.2 %	0.6 %	0.3 %	1,734.7 %	0.7 %

	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	2.2674 ppm	100.0729 %	103.9849 %	74.3242 %	109.9514 %	119.6536 %	109.0142 %
Concentration per Run 1	2.2798 ppm	99.4387 %	104.0241 %	74.2260 %	110.0796 %	119.7754 %	108.9890 %
Concentration per Run 2	2.2466 ppm	100.6563 %	103.8376 %	74.0794 %	109.9933 %	119.3796 %	108.8627 %
Concentration per Run 3	2.2758 ppm	100.1236 %	104.0931 %	74.6671 %	109.7812 %	119.8059 %	109.1909 %
Concentration RSD	0.8 %	0.6 %	0.1 %	0.4 %	0.1 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472777-09D2 WG2010479
Analysis started at: 12/18/2024 2:36:48 PM
Rack 2
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	0.0022 ppm	127.5950 ppm	0.0774 ppm	0.0208 ppm	1.7073 ppm	0.0050 ppm	109.4801 ppm
Concentration per Run 1	0.0025 ppm	128.3363 ppm	0.0776 ppm	0.0222 ppm	1.7092 ppm	0.0051 ppm	109.9138 ppm
Concentration per Run 2	0.0022 ppm	129.1496 ppm	0.0767 ppm	0.0214 ppm	1.7194 ppm	0.0051 ppm	110.7267 ppm
Concentration per Run 3	0.0020 ppm	125.2991 ppm	0.0779 ppm	0.0188 ppm	1.6933 ppm	0.0048 ppm	107.7998 ppm
Concentration RSD	10.2 %	1.6 %	0.8 %	8.8 %	0.8 %	3.8 %	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	0.0021 ppm	0.0713 ppm	0.1900 ppm	0.9286 ppm	169.9445 ppm	12.1025 ppm	0.1664 ppm
Concentration per Run 1	0.0024 ppm	0.0723 ppm	0.1916 ppm	0.9328 ppm	170.0843 ppm	12.1385 ppm	0.1692 ppm
Concentration per Run 2	0.0020 ppm	0.0709 ppm	0.1900 ppm	0.9325 ppm	170.9163 ppm	12.2228 ppm	0.1684 ppm
Concentration per Run 3	0.0018 ppm	0.0708 ppm	0.1883 ppm	0.9205 ppm	168.8330 ppm	11.9464 ppm	0.1616 ppm
Concentration RSD	15.7 %	1.2 %	0.9 %	0.8 %	0.6 %	1.2 %	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	43.7446 ppm	3.1776 ppm	0.0049 ppm	4.1645 ppm	0.1310 ppm	11.8035 ppm	0.0084 ppm
Concentration per Run 1	44.0871 ppm	3.1793 ppm	0.0052 ppm	4.2051 ppm	0.1327 ppm	11.7973 ppm	0.0091 ppm
Concentration per Run 2	43.7812 ppm	3.1978 ppm	0.0051 ppm	4.2116 ppm	0.1314 ppm	11.8514 ppm	0.0093 ppm
Concentration per Run 3	43.3655 ppm	3.1558 ppm	0.0046 ppm	4.0768 ppm	0.1289 ppm	11.7616 ppm	0.0068 ppm
Concentration RSD	0.8 %	0.7 %	5.9 %	1.8 %	1.5 %	0.4 %	16.5 %

	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	0.0021 ppm	8.3329 ppm	0.0791 ppm	0.2829 ppm	5.2907 ppm	0.0025 ppm	0.2701 ppm
Concentration per Run 1	0.0013 ppm	8.3145 ppm	0.0797 ppm	0.2828 ppm	5.3314 ppm	0.0022 ppm	0.2712 ppm
Concentration per Run 2	0.0039 ppm	8.3857 ppm	0.0798 ppm	0.2851 ppm	5.2923 ppm	0.0022 ppm	0.2696 ppm
Concentration per Run 3	0.0011 ppm	8.2985 ppm	0.0779 ppm	0.2807 ppm	5.2485 ppm	0.0032 ppm	0.2694 ppm
Concentration RSD	76.1 %	0.6 %	1.4 %	0.8 %	0.8 %	23.6 %	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	2.4997 ppm	99.9262 %	104.0376 %	73.0264 %	113.4969 %	122.5554 %	111.7711 %
Concentration per Run 1	2.5270 ppm	99.2010 %	103.8078 %	73.1259 %	113.3484 %	122.5275 %	112.0895 %
Concentration per Run 2	2.4979 ppm	99.9685 %	103.1383 %	72.7948 %	113.2764 %	122.0905 %	111.4460 %
Concentration per Run 3	2.4742 ppm	100.6091 %	105.1666 %	73.1587 %	113.8658 %	123.0481 %	111.7778 %
Concentration RSD	1.1 %	0.7 %	1.0 %	0.3 %	0.3 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472942-01D2 WG2010479
Analysis started at: 12/18/2024 2:41:15 PM
Rack 2
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	0.0014 ppm	78.2926 ppm	0.0279 ppm	0.0275 ppm	0.4391 ppm	0.0039 ppm	248.0873 ppm
Concentration per Run 1	0.0015 ppm	77.8994 ppm	0.0271 ppm	0.0265 ppm	0.4380 ppm	0.0039 ppm	248.0399 ppm
Concentration per Run 2	0.0012 ppm	78.8296 ppm	0.0273 ppm	0.0282 ppm	0.4425 ppm	0.0039 ppm	248.7343 ppm
Concentration per Run 3	0.0016 ppm	78.1489 ppm	0.0292 ppm	0.0279 ppm	0.4367 ppm	0.0038 ppm	247.4875 ppm
Concentration RSD	16.6 %	0.6 %	4.2 %	3.2 %	0.7 %	0.8 %	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	0.0033 ppm	0.1032 ppm	0.1620 ppm	0.4104 ppm	162.5675 ppm	14.8380 ppm	0.1389 ppm
Concentration per Run 1	0.0033 ppm	0.1029 ppm	0.1622 ppm	0.4131 ppm	163.0202 ppm	14.6302 ppm	0.1376 ppm
Concentration per Run 2	0.0032 ppm	0.1031 ppm	0.1612 ppm	0.4088 ppm	163.0987 ppm	15.0412 ppm	0.1406 ppm
Concentration per Run 3	0.0035 ppm	0.1037 ppm	0.1625 ppm	0.4092 ppm	161.5834 ppm	14.8426 ppm	0.1385 ppm
Concentration RSD	4.5 %	0.4 %	0.4 %	0.6 %	0.5 %	1.4 %	1.1 %

	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	42.7781 ppm	1.8367 ppm	0.0135 ppm	3.2675 ppm	0.1118 ppm	0.1467 ppm	0.0015 ppm
Concentration per Run 1	42.7111 ppm	1.8383 ppm	0.0141 ppm	3.2190 ppm	0.1128 ppm	0.1465 ppm	-0.0010 ppm
Concentration per Run 2	42.7399 ppm	1.8381 ppm	0.0127 ppm	3.3113 ppm	0.1108 ppm	0.1464 ppm	0.0040 ppm
Concentration per Run 3	42.8833 ppm	1.8336 ppm	0.0137 ppm	3.2721 ppm	0.1118 ppm	0.1471 ppm	0.0014 ppm
Concentration RSD	0.2 %	0.1 %	5.2 %	1.4 %	0.9 %	0.2 %	171.5 %

	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	0.0019 ppm	24.4508 [SIC 100]	0.0070 ppm	0.5446 ppm	5.8093 ppm	0.0057 ppm	0.5537 ppm
Concentration per Run 1	0.0020 ppm	24.4773 ppm	0.0069 ppm	0.5426 ppm	5.8265 ppm	0.0071 ppm	0.5551 ppm
Concentration per Run 2	0.0020 ppm	24.4082 ppm	0.0076 ppm	0.5496 ppm	5.7889 ppm	0.0049 ppm	0.5539 ppm
Concentration per Run 3	0.0016 ppm	24.4671 ppm	0.0065 ppm	0.5417 ppm	5.8124 ppm	0.0050 ppm	0.5520 ppm
Concentration RSD	13.5 %	0.2 %	8.0 %	0.8 %	0.3 %	21.5 %	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	1.9669 ppm	96.1479 %	99.4677 %	68.3066 %	117.4351 %	126.2712 %	115.9193 %
Concentration per Run 1	1.9657 ppm	96.0142 %	99.6542 %	67.8293 %	117.7818 %	126.6163 %	115.3969 %
Concentration per Run 2	1.9620 ppm	96.2591 %	98.7972 %	68.7912 %	117.5252 %	125.4580 %	116.5419 %
Concentration per Run 3	1.9730 ppm	96.1703 %	99.9518 %	68.2994 %	116.9983 %	126.7392 %	115.8193 %
Concentration RSD	0.3 %	0.1 %	0.6 %	0.7 %	0.3 %	0.6 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473702-01D2 WG2010479
Analysis started at: 12/18/2024 2:45:42 PM
Rack 2
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	0.0053 ppm	89.6881 ppm	0.1502 ppm	0.0225 ppm	1.6364 ppm	0.0039 ppm	32.1825 ppm
Concentration per Run 1	0.0055 ppm	90.4910 ppm	0.1485 ppm	0.0228 ppm	1.6618 ppm	0.0040 ppm	32.2394 ppm
Concentration per Run 2	0.0054 ppm	89.4197 ppm	0.1521 ppm	0.0227 ppm	1.6271 ppm	0.0039 ppm	31.9724 ppm
Concentration per Run 3	0.0051 ppm	89.1537 ppm	0.1500 ppm	0.0221 ppm	1.6204 ppm	0.0039 ppm	32.3356 ppm
Concentration RSD	3.5 %	0.8 %	1.2 %	1.8 %	1.4 %	0.7 %	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	0.0076 ppm	0.0438 ppm	0.1359 ppm	0.6022 ppm	253.5204 ppm	5.7264 ppm	0.1617 ppm
Concentration per Run 1	0.0077 ppm	0.0438 ppm	0.1363 ppm	0.6035 ppm	254.6741 ppm	5.7857 ppm	0.1644 ppm
Concentration per Run 2	0.0077 ppm	0.0444 ppm	0.1361 ppm	0.6032 ppm	252.6906 ppm	5.7645 ppm	0.1617 ppm
Concentration per Run 3	0.0076 ppm	0.0433 ppm	0.1354 ppm	0.6000 ppm	253.1966 ppm	5.6291 ppm	0.1592 ppm
Concentration RSD	1.1 %	1.4 %	0.4 %	0.3 %	0.4 %	1.5 %	1.6 %

	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	14.2875 ppm	2.3475 ppm	0.0131 ppm	7.0266 ppm	0.1108 ppm	5.5432 ppm	0.0584 ppm
Concentration per Run 1	14.3334 ppm	2.3496 ppm	0.0132 ppm	7.1508 ppm	0.1112 ppm	5.5257 ppm	0.0583 ppm
Concentration per Run 2	14.2408 ppm	2.3370 ppm	0.0131 ppm	7.0251 ppm	0.1108 ppm	5.5650 ppm	0.0592 ppm
Concentration per Run 3	14.2881 ppm	2.3560 ppm	0.0130 ppm	6.9040 ppm	0.1104 ppm	5.5390 ppm	0.0578 ppm
Concentration RSD	0.3 %	0.4 %	0.8 %	1.8 %	0.4 %	0.4 %	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	0.0093 ppm	3.9794 ppm	0.1878 ppm	0.3775 ppm	2.3174 ppm	0.0018 ppm	0.2804 ppm
Concentration per Run 1	0.0098 ppm	4.0709 ppm	0.1895 ppm	0.3825 ppm	2.3281 ppm	0.0024 ppm	0.2806 ppm
Concentration per Run 2	0.0092 ppm	3.9403 ppm	0.1877 ppm	0.3753 ppm	2.3083 ppm	0.0018 ppm	0.2803 ppm
Concentration per Run 3	0.0088 ppm	3.9270 ppm	0.1863 ppm	0.3746 ppm	2.3158 ppm	0.0013 ppm	0.2803 ppm
Concentration RSD	5.2 %	2.0 %	0.9 %	1.2 %	0.4 %	30.3 %	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	2.6994 ppm	103.2881 %	104.9868 %	79.8478 %	116.5230 %	123.7837 %	113.8936 %
Concentration per Run 1	2.7373 ppm	103.0313 %	104.8080 %	79.7453 %	116.3742 %	123.4820 %	113.7993 %
Concentration per Run 2	2.6862 ppm	103.3647 %	105.6828 %	79.8625 %	116.6149 %	124.5410 %	114.1178 %
Concentration per Run 3	2.6749 ppm	103.4682 %	104.4698 %	79.9354 %	116.5801 %	123.3280 %	113.7636 %
Concentration RSD	1.2 %	0.2 %	0.6 %	0.1 %	0.1 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCV
Analysis started at: 12/18/2024 2:50:08 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	0.4707 ppm	0.4704 ppm	0.4717 ppm	0.4703 ppm	0.4876 ppm	0.4988 ppm	0.4836 ppm
Concentration per Run 1	0.4741 ppm	0.4671 ppm	0.4746 ppm	0.4784 ppm	0.4828 ppm	0.4958 ppm	0.4813 ppm
Concentration per Run 2	0.4702 ppm	0.4726 ppm	0.4706 ppm	0.4683 ppm	0.4883 ppm	0.5003 ppm	0.4850 ppm
Concentration per Run 3	0.4678 ppm	0.4715 ppm	0.4701 ppm	0.4640 ppm	0.4918 ppm	0.5004 ppm	0.4845 ppm
Recovery Percentage 1	94.142 %	94.084 %	94.350 %	94.050 %	97.529 %	99.766 %	96.718 %
Concentration RSD	0.7 %	0.6 %	0.5 %	1.6 %	0.9 %	0.5 %	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	0.4818 ppm	0.4966 ppm	0.4793 ppm	0.4788 ppm	0.5171 ppm	5.1703 ppm	0.5039 ppm
Concentration per Run 1	0.4876 ppm	0.5026 ppm	0.4831 ppm	0.4838 ppm	0.5152 ppm	5.1242 ppm	0.5040 ppm
Concentration per Run 2	0.4808 ppm	0.4957 ppm	0.4779 ppm	0.4772 ppm	0.5174 ppm	5.1869 ppm	0.5018 ppm
Concentration per Run 3	0.4771 ppm	0.4915 ppm	0.4768 ppm	0.4753 ppm	0.5188 ppm	5.1998 ppm	0.5060 ppm
Recovery Percentage 1	96.369 %	99.316 %	95.858 %	95.753 %	103.424 %	103.406 %	100.786 %
Concentration RSD	1.1 %	1.1 %	0.7 %	0.9 %	0.4 %	0.8 %	0.4 %

	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	0.4813 ppm	0.4767 ppm	0.4873 ppm	10.0950 ppm	0.4946 ppm	0.4810 ppm	0.4839 ppm
Concentration per Run 1	0.4855 ppm	0.4747 ppm	0.4902 ppm	10.0597 ppm	0.4997 ppm	0.4821 ppm	0.4877 ppm
Concentration per Run 2	0.4785 ppm	0.4778 ppm	0.4861 ppm	10.0072 ppm	0.4920 ppm	0.4799 ppm	0.4831 ppm
Concentration per Run 3	0.4798 ppm	0.4777 ppm	0.4856 ppm	10.2181 ppm	0.4921 ppm	0.4810 ppm	0.4808 ppm
Recovery Percentage 1	96.252 %	95.343 %	97.459 %	100.950 %	98.920 %	96.204 %	96.771 %
Concentration RSD	0.8 %	0.4 %	0.5 %	1.1 %	0.9 %	0.2 %	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	0.4811 ppm	5.3634 ppm	0.4981 ppm	0.5166 ppm	0.4828 ppm	0.4773 ppm	0.4849 ppm
Concentration per Run 1	0.4835 ppm	5.4260 ppm	0.5037 ppm	0.5116 ppm	0.4866 ppm	0.4794 ppm	0.4883 ppm
Concentration per Run 2	0.4801 ppm	5.3448 ppm	0.4942 ppm	0.5181 ppm	0.4817 ppm	0.4755 ppm	0.4845 ppm
Concentration per Run 3	0.4796 ppm	5.3193 ppm	0.4964 ppm	0.5200 ppm	0.4802 ppm	0.4771 ppm	0.4819 ppm
Recovery Percentage 1	96.217 %	102.160 %	99.618 %	103.313 %	96.567 %	95.459 %	96.984 %
Concentration RSD	0.4 %	1.0 %	1.0 %	0.9 %	0.7 %	0.4 %	0.7 %

	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	0.4833 ppm	101.7485 %	100.5651 %	93.5143 %	96.5827 %	98.1864 %	95.8283 %
Concentration per Run 1	0.4884 ppm	100.9160 %	100.8163 %	93.0265 %	95.7416 %	98.0887 %	95.3622 %
Concentration per Run 2	0.4802 ppm	102.1682 %	100.1239 %	93.3996 %	97.3282 %	97.9944 %	95.5654 %
Concentration per Run 3	0.4812 ppm	102.1611 %	100.7552 %	94.1169 %	96.6784 %	98.4761 %	96.5574 %
Recovery Percentage 1	96.654 %						
Concentration RSD	0.9 %	0.7 %	0.4 %	0.6 %	0.8 %	0.3 %	0.7 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCB
Analysis started at: 12/18/2024 2:54:34 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	-0.0001 ppm	-0.0039 ppm	0.0010 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0005 ppm
Concentration per Run 1	-0.0002 ppm	-0.0017 ppm	0.0008 ppm	-0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 2	0.0001 ppm	-0.0053 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0008 ppm
Concentration per Run 3	-0.0002 ppm	-0.0047 ppm	0.0005 ppm	0.0007 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm
Recovery Percentage 1	-1.638 %	-3.897 %	20.265 %	0.481 %	0.194 %	1.296 %	0.490 %
Concentration RSD	167.7 %	49.1 %	64.4 %	330.0 %	346.0 %	14.7 %	66.3 %

	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	0.0000 ppm	-0.0003 ppm	0.0044 ppm	0.0173 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0001 ppm	-0.0003 ppm	0.0048 ppm	0.0142 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0001 ppm	-0.0003 ppm	0.0039 ppm	0.0092 ppm	0.0003 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	-0.0001 ppm	-0.0004 ppm	0.0044 ppm	0.0285 ppm	0.0007 ppm
Recovery Percentage 1	0.444 %	2.178 %	-0.361 %	-3.382 %	8.701 %	0.691 %	5.641 %
Concentration RSD	267.4 %	4.2 %	236.1 %	11.1 %	11.1 %	57.9 %	33.2 %

	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	0.0001 ppm	0.0001 ppm	0.0033 ppm	0.0068 ppm	0.0006 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 1	-0.0003 ppm	0.0002 ppm	0.0033 ppm	0.0072 ppm	0.0003 ppm	0.0006 ppm	0.0009 ppm
Concentration per Run 2	0.0002 ppm	0.0001 ppm	0.0035 ppm	0.0046 ppm	0.0005 ppm	-0.0004 ppm	0.0004 ppm
Concentration per Run 3	0.0003 ppm	0.0000 ppm	0.0030 ppm	0.0087 ppm	0.0010 ppm	0.0002 ppm	-0.0009 ppm
Recovery Percentage 1	0.073 %	0.867 %	6.544 %	0.342 %	2.420 %	1.140 %	0.304 %
Concentration RSD	396.8 %	97.3 %	7.2 %	30.5 %	58.5 %	407.8 %	620.7 %

	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	0.0018 ppm	0.0069 ppm	0.0006 ppm	0.0001 ppm	0.0003 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 1	0.0022 ppm	0.0066 ppm	0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0009 ppm	0.0000 ppm
Concentration per Run 2	0.0002 ppm	0.0085 ppm	0.0009 ppm	0.0001 ppm	0.0005 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 3	0.0029 ppm	0.0056 ppm	0.0008 ppm	0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0001 ppm
Recovery Percentage 1	17.755 %	1.378 %	1.229 %	0.982 %	3.145 %	2.069 %	0.150 %
Concentration RSD	77.3 %	21.6 %	65.8 %	38.4 %	49.0 %	119.2 %	232.3 %

	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	0.0004 ppm	100.9673 %	100.2022 %	94.2390 %	98.1498 %	99.2072 %	97.3819 %
Concentration per Run 1	0.0004 ppm	99.8451 %	99.2465 %	93.8187 %	97.5797 %	98.7523 %	97.4857 %
Concentration per Run 2	0.0004 ppm	100.9859 %	100.6469 %	94.4623 %	98.1855 %	99.4797 %	97.5680 %
Concentration per Run 3	0.0003 ppm	102.0708 %	100.7133 %	94.4360 %	98.6842 %	99.3896 %	97.0920 %
Recovery Percentage 1	7.539 %						
Concentration RSD	23.3 %	1.1 %	0.8 %	0.4 %	0.6 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010756-1 WG2010756
Analysis started at: 12/18/2024 3:07:24 PM
Rack 2
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	0.0101 ppm	0.0017 ppm	0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0405 ppm
Concentration per Run 1	-0.0001 ppm	0.0090 ppm	0.0025 ppm	0.0007 ppm	0.0002 ppm	0.0000 ppm	0.0409 ppm
Concentration per Run 2	-0.0003 ppm	0.0113 ppm	-0.0004 ppm	-0.0006 ppm	0.0002 ppm	0.0000 ppm	0.0420 ppm
Concentration per Run 3	-0.0002 ppm	0.0101 ppm	0.0030 ppm	0.0006 ppm	0.0002 ppm	0.0000 ppm	0.0385 ppm
Recovery Percentage 1	-3.666 %	10.131 %	33.879 %	0.701 %	2.297 %	0.197 %	40.453 %
Concentration RSD	46.0 %	11.7 %	108.9 %	351.5 %	5.3 %	110.1 %	4.3 %

	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	0.0010 ppm	-0.0001 ppm	0.0458 ppm	0.0859 ppm	0.0008 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0013 ppm	-0.0001 ppm	0.0465 ppm	0.0933 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0008 ppm	0.0001 ppm	0.0450 ppm	0.0808 ppm	0.0007 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0010 ppm	-0.0002 ppm	0.0460 ppm	0.0835 ppm	0.0008 ppm
Recovery Percentage 1	-0.397 %	-0.300 %	10.471 %	-0.542 %	91.682 %	3.435 %	8.015 %
Concentration RSD	216.0 %	580.3 %	23.3 %	213.3 %	1.7 %	7.7 %	9.3 %

	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	0.0056 ppm	0.0015 ppm	0.0007 ppm	0.0297 ppm	0.0009 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 1	0.0052 ppm	0.0015 ppm	0.0005 ppm	0.0292 ppm	0.0008 ppm	-0.0004 ppm	0.0007 ppm
Concentration per Run 2	0.0065 ppm	0.0014 ppm	0.0007 ppm	0.0307 ppm	0.0008 ppm	0.0005 ppm	-0.0009 ppm
Concentration per Run 3	0.0050 ppm	0.0016 ppm	0.0010 ppm	0.0291 ppm	0.0011 ppm	0.0000 ppm	-0.0002 ppm
Recovery Percentage 1	5.559 %	15.054 %	1.441 %	1.483 %	3.591 %	0.354 %	-0.226 %
Concentration RSD	15.0 %	7.0 %	29.9 %	3.0 %	23.1 %	1,344.0 %	721.2 %

	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	0.0005 ppm	0.0168 ppm	0.0037 ppm	0.0001 ppm	0.0008 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.0168 ppm	0.0042 ppm	0.0001 ppm	0.0008 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 2	0.0010 ppm	0.0165 ppm	0.0038 ppm	0.0001 ppm	0.0009 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 3	0.0003 ppm	0.0171 ppm	0.0031 ppm	0.0001 ppm	0.0006 ppm	0.0008 ppm	0.0000 ppm
Recovery Percentage 1	4.820 %	3.363 %	7.378 %	1.250 %	7.905 %	0.490 %	-0.566 %
Concentration RSD	95.2 %	1.9 %	16.2 %	15.7 %	19.7 %	647.3 %	152.2 %

	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	0.0052 ppm	106.0985 %	100.5415 %	101.8240 %	100.4440 %	98.1093 %	98.9933 %
Concentration per Run 1	0.0050 ppm	106.1891 %	100.6353 %	101.2451 %	100.8038 %	98.1183 %	98.6449 %
Concentration per Run 2	0.0052 ppm	106.0568 %	101.0040 %	102.7943 %	100.0193 %	98.2490 %	99.7157 %
Concentration per Run 3	0.0053 ppm	106.0496 %	99.9852 %	101.4326 %	100.5088 %	97.9605 %	98.6191 %
Recovery Percentage 1	103.147 %						
Concentration RSD	3.7 %	0.1 %	0.5 %	0.8 %	0.4 %	0.1 %	0.6 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010756-2 WG2010756
Analysis started at: 12/18/2024 3:12:15 PM
Rack 2
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	0.0914 ppm	3.9848 ppm	0.2315 ppm	1.8709 ppm	3.7807 ppm	0.1004 ppm	19.7024 ppm
Concentration per Run 1	0.0918 ppm	3.9710 ppm	0.2323 ppm	1.8761 ppm	3.7587 ppm	0.0999 ppm	19.6661 ppm
Concentration per Run 2	0.0912 ppm	3.9829 ppm	0.2312 ppm	1.8711 ppm	3.7801 ppm	0.1001 ppm	19.5798 ppm
Concentration per Run 3	0.0913 ppm	4.0006 ppm	0.2309 ppm	1.8653 ppm	3.8034 ppm	0.1011 ppm	19.8613 ppm
Concentration RSD	0.3 %	0.4 %	0.3 %	0.3 %	0.6 %	0.7 %	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	0.0983 ppm	0.9366 ppm	0.3719 ppm	0.4769 ppm	1.9578 ppm	20.5793 ppm	0.0012 ppm
Concentration per Run 1	0.0984 ppm	0.9389 ppm	0.3738 ppm	0.4788 ppm	1.9461 ppm	20.4068 ppm	0.0017 ppm
Concentration per Run 2	0.0983 ppm	0.9366 ppm	0.3710 ppm	0.4771 ppm	1.9510 ppm	20.7084 ppm	0.0007 ppm
Concentration per Run 3	0.0981 ppm	0.9344 ppm	0.3708 ppm	0.4748 ppm	1.9761 ppm	20.6225 ppm	0.0011 ppm
Concentration RSD	0.1 %	0.2 %	0.5 %	0.4 %	0.8 %	0.8 %	41.8 %

	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	19.0703 ppm	0.9369 ppm	1.9852 ppm	20.6602 ppm	0.9124 ppm	1.0469 ppm	0.8735 ppm
Concentration per Run 1	19.0796 ppm	0.9328 ppm	1.9819 ppm	20.5439 ppm	0.9181 ppm	1.0473 ppm	0.8760 ppm
Concentration per Run 2	19.0084 ppm	0.9337 ppm	1.9882 ppm	20.6271 ppm	0.9085 ppm	1.0476 ppm	0.8762 ppm
Concentration per Run 3	19.1229 ppm	0.9443 ppm	1.9855 ppm	20.8095 ppm	0.9106 ppm	1.0457 ppm	0.8683 ppm
Concentration RSD	0.3 %	0.7 %	0.2 %	0.7 %	0.5 %	0.1 %	0.5 %

	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	0.2306 ppm	2.1713 ppm	1.8817 ppm	1.9416 ppm	1.9122 ppm	0.2347 ppm	0.9564 ppm
Concentration per Run 1	0.2294 ppm	2.1810 ppm	1.8975 ppm	1.9316 ppm	1.9156 ppm	0.2341 ppm	0.9571 ppm
Concentration per Run 2	0.2324 ppm	2.1666 ppm	1.8829 ppm	1.9347 ppm	1.9091 ppm	0.2357 ppm	0.9579 ppm
Concentration per Run 3	0.2300 ppm	2.1662 ppm	1.8648 ppm	1.9587 ppm	1.9119 ppm	0.2343 ppm	0.9541 ppm
Concentration RSD	0.7 %	0.4 %	0.9 %	0.8 %	0.2 %	0.4 %	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	0.9131 ppm	99.6740 %	99.1706 %	85.2741 %	92.9761 %	96.4806 %	92.4440 %
Concentration per Run 1	0.9168 ppm	99.5025 %	99.1863 %	84.8598 %	92.8649 %	96.5118 %	92.2482 %
Concentration per Run 2	0.9106 ppm	99.8153 %	99.5884 %	85.1723 %	93.2421 %	96.7455 %	92.3146 %
Concentration per Run 3	0.9118 ppm	99.7042 %	98.7369 %	85.7902 %	92.8212 %	96.1844 %	92.7693 %
Concentration RSD	0.4 %	0.2 %	0.4 %	0.6 %	0.2 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010756-3 WG2010756
Analysis started at: 12/18/2024 3:16:42 PM
Rack 2
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	0.0895 ppm	3.8886 ppm	0.2240 ppm	1.8086 ppm	3.7034 ppm	0.0975 ppm	18.9571 ppm
Concentration per Run 1	0.0896 ppm	3.9048 ppm	0.2245 ppm	1.8210 ppm	3.7172 ppm	0.0979 ppm	18.9641 ppm
Concentration per Run 2	0.0894 ppm	3.8886 ppm	0.2240 ppm	1.8036 ppm	3.6905 ppm	0.0971 ppm	18.9366 ppm
Concentration per Run 3	0.0893 ppm	3.8723 ppm	0.2236 ppm	1.8013 ppm	3.7026 ppm	0.0976 ppm	18.9704 ppm
Concentration RSD	0.1 %	0.4 %	0.2 %	0.6 %	0.4 %	0.4 %	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	0.0965 ppm	0.9193 ppm	0.3649 ppm	0.4684 ppm	1.9501 ppm	19.9671 ppm	0.0013 ppm
Concentration per Run 1	0.0971 ppm	0.9220 ppm	0.3658 ppm	0.4694 ppm	1.9568 ppm	20.0376 ppm	0.0015 ppm
Concentration per Run 2	0.0963 ppm	0.9189 ppm	0.3652 ppm	0.4683 ppm	1.9430 ppm	19.9684 ppm	0.0020 ppm
Concentration per Run 3	0.0962 ppm	0.9170 ppm	0.3637 ppm	0.4676 ppm	1.9504 ppm	19.8952 ppm	0.0006 ppm
Concentration RSD	0.5 %	0.3 %	0.3 %	0.2 %	0.4 %	0.4 %	51.4 %

	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	18.4876 ppm	0.9103 ppm	1.9504 ppm	20.1197 ppm	0.8938 ppm	1.0158 ppm	0.8649 ppm
Concentration per Run 1	18.5527 ppm	0.9117 ppm	1.9501 ppm	20.1020 ppm	0.8967 ppm	1.0178 ppm	0.8655 ppm
Concentration per Run 2	18.4715 ppm	0.9072 ppm	1.9532 ppm	20.2009 ppm	0.8938 ppm	1.0140 ppm	0.8691 ppm
Concentration per Run 3	18.4387 ppm	0.9120 ppm	1.9479 ppm	20.0563 ppm	0.8911 ppm	1.0155 ppm	0.8599 ppm
Concentration RSD	0.3 %	0.3 %	0.1 %	0.4 %	0.3 %	0.2 %	0.5 %

	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	0.2227 ppm	2.1084 ppm	1.8291 ppm	1.8859 ppm	1.8583 ppm	0.2260 ppm	0.9392 ppm
Concentration per Run 1	0.2213 ppm	2.1132 ppm	1.8379 ppm	1.8904 ppm	1.8629 ppm	0.2264 ppm	0.9384 ppm
Concentration per Run 2	0.2234 ppm	2.1086 ppm	1.8302 ppm	1.8799 ppm	1.8555 ppm	0.2253 ppm	0.9389 ppm
Concentration per Run 3	0.2233 ppm	2.1034 ppm	1.8191 ppm	1.8876 ppm	1.8565 ppm	0.2262 ppm	0.9402 ppm
Concentration RSD	0.5 %	0.2 %	0.5 %	0.3 %	0.2 %	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	0.8958 ppm	99.6255 %	100.0610 %	85.2659 %	92.9463 %	97.2110 %	92.5338 %
Concentration per Run 1	0.9005 ppm	99.5795 %	99.8464 %	84.9132 %	93.0504 %	96.9642 %	92.2347 %
Concentration per Run 2	0.8945 ppm	99.5190 %	100.2617 %	85.6850 %	92.7445 %	97.4666 %	92.9069 %
Concentration per Run 3	0.8923 ppm	99.7778 %	100.0750 %	85.1993 %	93.0439 %	97.2021 %	92.4597 %
Concentration RSD	0.5 %	0.1 %	0.2 %	0.5 %	0.2 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2474115-01 WG2010756
Analysis started at: 12/18/2024 3:21:09 PM
Rack 2
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	0.0010 ppm	0.5338 ppm	0.0044 ppm	0.0203 ppm	0.0420 ppm	0.0000 ppm	5.5365 ppm
Concentration per Run 1	0.0010 ppm	0.5333 ppm	0.0051 ppm	0.0200 ppm	0.0424 ppm	0.0000 ppm	5.5227 ppm
Concentration per Run 2	0.0008 ppm	0.5343 ppm	0.0034 ppm	0.0206 ppm	0.0420 ppm	0.0000 ppm	5.5405 ppm
Concentration per Run 3	0.0011 ppm	0.5340 ppm	0.0048 ppm	0.0203 ppm	0.0417 ppm	0.0000 ppm	5.5462 ppm
Concentration RSD	13.1 %	0.1 %	20.6 %	1.7 %	0.9 %	159.3 %	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	0.0012 ppm	0.0019 ppm	0.0318 ppm	0.0525 ppm	10.0655 ppm	0.4150 ppm	0.0032 ppm
Concentration per Run 1	0.0012 ppm	0.0020 ppm	0.0316 ppm	0.0526 ppm	10.0715 ppm	0.4179 ppm	0.0031 ppm
Concentration per Run 2	0.0012 ppm	0.0018 ppm	0.0319 ppm	0.0525 ppm	10.0693 ppm	0.4236 ppm	0.0032 ppm
Concentration per Run 3	0.0011 ppm	0.0019 ppm	0.0319 ppm	0.0524 ppm	10.0556 ppm	0.4035 ppm	0.0032 ppm
Concentration RSD	2.8 %	5.3 %	0.6 %	0.2 %	0.1 %	2.5 %	1.4 %

	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	0.8035 ppm	0.0720 ppm	0.0184 ppm	3.7323 ppm	0.0237 ppm	0.0086 ppm	0.0082 ppm
Concentration per Run 1	0.8021 ppm	0.0721 ppm	0.0191 ppm	3.6680 ppm	0.0236 ppm	0.0083 ppm	0.0088 ppm
Concentration per Run 2	0.8016 ppm	0.0720 ppm	0.0185 ppm	3.7403 ppm	0.0233 ppm	0.0096 ppm	0.0077 ppm
Concentration per Run 3	0.8069 ppm	0.0717 ppm	0.0177 ppm	3.7887 ppm	0.0242 ppm	0.0079 ppm	0.0081 ppm
Concentration RSD	0.4 %	0.3 %	3.7 %	1.6 %	2.0 %	10.5 %	6.8 %

	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	0.0065 ppm	0.8011 ppm	0.0323 ppm	0.0261 ppm	0.0398 ppm	-0.0021 ppm	0.0014 ppm
Concentration per Run 1	0.0067 ppm	0.7777 ppm	0.0319 ppm	0.0262 ppm	0.0397 ppm	-0.0012 ppm	0.0015 ppm
Concentration per Run 2	0.0050 ppm	0.8160 ppm	0.0325 ppm	0.0261 ppm	0.0418 ppm	-0.0025 ppm	0.0014 ppm
Concentration per Run 3	0.0078 ppm	0.8095 ppm	0.0325 ppm	0.0260 ppm	0.0378 ppm	-0.0027 ppm	0.0015 ppm
Concentration RSD	21.5 %	2.6 %	1.1 %	0.3 %	5.0 %	38.8 %	4.9 %

	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	0.4962 ppm	103.5952 %	101.4009 %	93.1723 %	96.5926 %	99.0504 %	95.2569 %
Concentration per Run 1	0.4911 ppm	103.4419 %	101.7529 %	93.4289 %	96.6654 %	99.4319 %	95.3702 %
Concentration per Run 2	0.5002 ppm	103.1913 %	101.1283 %	92.5974 %	95.6794 %	98.9040 %	94.8504 %
Concentration per Run 3	0.4974 ppm	104.1523 %	101.3216 %	93.4905 %	97.4331 %	98.8153 %	95.5500 %
Concentration RSD	0.9 %	0.5 %	0.3 %	0.5 %	0.9 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2474115-02 WG2010756
Analysis started at: 12/18/2024 3:25:35 PM
Rack 2
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	0.0024 ppm	1.2380 ppm	0.0056 ppm	0.0520 ppm	0.0753 ppm	0.0000 ppm	10.6157 ppm
Concentration per Run 1	0.0022 ppm	1.2259 ppm	0.0069 ppm	0.0518 ppm	0.0745 ppm	0.0000 ppm	10.5483 ppm
Concentration per Run 2	0.0025 ppm	1.2423 ppm	0.0049 ppm	0.0525 ppm	0.0757 ppm	0.0001 ppm	10.6198 ppm
Concentration per Run 3	0.0023 ppm	1.2459 ppm	0.0051 ppm	0.0517 ppm	0.0756 ppm	0.0000 ppm	10.6789 ppm
Concentration RSD	5.9 %	0.9 %	19.5 %	0.8 %	0.9 %	14.2 %	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	0.0017 ppm	0.0034 ppm	0.0659 ppm	0.2438 ppm	25.0197 ppm	0.9778 ppm	0.0042 ppm
Concentration per Run 1	0.0018 ppm	0.0034 ppm	0.0660 ppm	0.2428 ppm	24.8449 ppm	0.9717 ppm	0.0043 ppm
Concentration per Run 2	0.0018 ppm	0.0034 ppm	0.0652 ppm	0.2446 ppm	25.1050 ppm	0.9941 ppm	0.0044 ppm
Concentration per Run 3	0.0016 ppm	0.0034 ppm	0.0666 ppm	0.2440 ppm	25.1091 ppm	0.9676 ppm	0.0039 ppm
Concentration RSD	4.7 %	0.5 %	1.1 %	0.4 %	0.6 %	1.5 %	5.4 %

	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	1.9676 ppm	0.1543 ppm	0.0134 ppm	5.5756 ppm	0.0445 ppm	0.0312 ppm	0.0173 ppm
Concentration per Run 1	1.9706 ppm	0.1540 ppm	0.0134 ppm	5.5654 ppm	0.0441 ppm	0.0315 ppm	0.0169 ppm
Concentration per Run 2	1.9656 ppm	0.1541 ppm	0.0134 ppm	5.6295 ppm	0.0454 ppm	0.0311 ppm	0.0166 ppm
Concentration per Run 3	1.9665 ppm	0.1549 ppm	0.0133 ppm	5.5318 ppm	0.0439 ppm	0.0311 ppm	0.0182 ppm
Concentration RSD	0.1 %	0.3 %	0.4 %	0.9 %	1.9 %	0.7 %	4.7 %

	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	0.0048 ppm	1.7022 ppm	0.0344 ppm	0.0437 ppm	0.0999 ppm	-0.0017 ppm	0.0031 ppm
Concentration per Run 1	0.0032 ppm	1.7597 ppm	0.0346 ppm	0.0432 ppm	0.1021 ppm	-0.0023 ppm	0.0033 ppm
Concentration per Run 2	0.0061 ppm	1.6990 ppm	0.0343 ppm	0.0440 ppm	0.0983 ppm	-0.0010 ppm	0.0030 ppm
Concentration per Run 3	0.0049 ppm	1.6480 ppm	0.0343 ppm	0.0441 ppm	0.0992 ppm	-0.0018 ppm	0.0031 ppm
Concentration RSD	30.8 %	3.3 %	0.5 %	1.0 %	2.0 %	39.2 %	5.6 %

	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	1.4535 ppm	102.8966 %	101.1706 %	91.3020 %	96.2446 %	98.7573 %	94.6729 %
Concentration per Run 1	1.4620 ppm	102.1126 %	101.9667 %	91.6314 %	95.3893 %	99.1039 %	94.6191 %
Concentration per Run 2	1.4508 ppm	103.3446 %	100.9862 %	90.5591 %	96.8197 %	98.9787 %	94.1069 %
Concentration per Run 3	1.4478 ppm	103.2326 %	100.5588 %	91.7154 %	96.5247 %	98.1892 %	95.2927 %
Concentration RSD	0.5 %	0.7 %	0.7 %	0.7 %	0.8 %	0.5 %	0.6 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2474115-03 WG2010756
Analysis started at: 12/18/2024 3:30:01 PM
Rack 2
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	-0.0001 ppm	0.1782 ppm	0.0022 ppm	0.0066 ppm	0.0203 ppm	0.0000 ppm	2.0442 ppm
Concentration per Run 1	-0.0002 ppm	0.1788 ppm	0.0019 ppm	0.0066 ppm	0.0201 ppm	0.0000 ppm	2.0425 ppm
Concentration per Run 2	-0.0001 ppm	0.1768 ppm	0.0015 ppm	0.0062 ppm	0.0203 ppm	0.0000 ppm	2.0281 ppm
Concentration per Run 3	0.0001 ppm	0.1791 ppm	0.0034 ppm	0.0070 ppm	0.0204 ppm	0.0000 ppm	2.0621 ppm
Concentration RSD	262.5 %	0.7 %	44.7 %	5.6 %	0.6 %	8,368.5 %	0.8 %

	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	0.0147 ppm	0.0005 ppm	0.0046 ppm	0.0094 ppm	1.0546 ppm	0.1800 ppm	0.0020 ppm
Concentration per Run 1	0.0149 ppm	0.0004 ppm	0.0046 ppm	0.0093 ppm	1.0564 ppm	0.1834 ppm	0.0020 ppm
Concentration per Run 2	0.0145 ppm	0.0003 ppm	0.0049 ppm	0.0094 ppm	1.0476 ppm	0.1702 ppm	0.0022 ppm
Concentration per Run 3	0.0148 ppm	0.0007 ppm	0.0044 ppm	0.0096 ppm	1.0598 ppm	0.1863 ppm	0.0018 ppm
Concentration RSD	1.5 %	46.1 %	5.9 %	1.6 %	0.6 %	4.8 %	8.2 %

	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	0.3153 ppm	0.0173 ppm	0.0022 ppm	3.3998 ppm	0.0033 ppm	0.0024 ppm	0.0015 ppm
Concentration per Run 1	0.3160 ppm	0.0174 ppm	0.0020 ppm	3.3590 ppm	0.0028 ppm	0.0021 ppm	0.0015 ppm
Concentration per Run 2	0.3139 ppm	0.0172 ppm	0.0025 ppm	3.4205 ppm	0.0039 ppm	0.0024 ppm	0.0017 ppm
Concentration per Run 3	0.3161 ppm	0.0174 ppm	0.0021 ppm	3.4198 ppm	0.0032 ppm	0.0026 ppm	0.0011 ppm
Concentration RSD	0.4 %	0.8 %	12.1 %	1.0 %	16.3 %	11.5 %	21.6 %

	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	0.0038 ppm	0.3592 ppm	0.0219 ppm	0.0182 ppm	0.0116 ppm	-0.0020 ppm	0.0004 ppm
Concentration per Run 1	0.0025 ppm	0.3553 ppm	0.0211 ppm	0.0181 ppm	0.0100 ppm	-0.0020 ppm	0.0004 ppm
Concentration per Run 2	0.0046 ppm	0.3661 ppm	0.0217 ppm	0.0181 ppm	0.0105 ppm	-0.0022 ppm	0.0003 ppm
Concentration per Run 3	0.0044 ppm	0.3561 ppm	0.0229 ppm	0.0183 ppm	0.0141 ppm	-0.0019 ppm	0.0004 ppm
Concentration RSD	30.5 %	1.7 %	4.1 %	0.7 %	19.2 %	7.5 %	11.9 %

	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	0.1515 ppm	104.1929 %	101.6083 %	94.0097 %	97.3291 %	98.7367 %	95.7031 %
Concentration per Run 1	0.1522 ppm	104.0709 %	101.4319 %	94.0292 %	97.2829 %	98.5028 %	95.7773 %
Concentration per Run 2	0.1496 ppm	104.3271 %	102.4612 %	94.0003 %	97.3140 %	99.1921 %	95.5846 %
Concentration per Run 3	0.1526 ppm	104.1806 %	100.9319 %	93.9997 %	97.3903 %	98.5152 %	95.7475 %
Concentration RSD	1.1 %	0.1 %	0.8 %	0.0 %	0.1 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2474115-04 WG2010756
Analysis started at: 12/18/2024 3:34:27 PM
Rack 2
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	0.0075 ppm	21.8738 ppm	0.0156 ppm	0.1032 ppm	0.7365 ppm	0.0001 ppm	15.2128 ppm
Concentration per Run 1	0.0075 ppm	21.9929 ppm	0.0137 ppm	0.1033 ppm	0.7378 ppm	0.0001 ppm	15.1778 ppm
Concentration per Run 2	0.0073 ppm	21.8669 ppm	0.0166 ppm	0.1017 ppm	0.7333 ppm	0.0001 ppm	15.2422 ppm
Concentration per Run 3	0.0076 ppm	21.7615 ppm	0.0164 ppm	0.1047 ppm	0.7384 ppm	0.0001 ppm	15.2184 ppm
Concentration RSD	2.1 %	0.5 %	10.6 %	1.5 %	0.4 %	13.0 %	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	0.0136 ppm	0.0187 ppm	0.3408 ppm	17.1788 ppm	177.3772 ppm	1.8903 ppm	0.0091 ppm
Concentration per Run 1	0.0137 ppm	0.0190 ppm	0.3466 ppm	17.2055 ppm	176.9014 ppm	1.9344 ppm	0.0091 ppm
Concentration per Run 2	0.0137 ppm	0.0184 ppm	0.3400 ppm	17.1501 ppm	177.4499 ppm	1.8571 ppm	0.0088 ppm
Concentration per Run 3	0.0134 ppm	0.0187 ppm	0.3360 ppm	17.1809 ppm	177.7802 ppm	1.8793 ppm	0.0095 ppm
Concentration RSD	1.2 %	1.5 %	1.6 %	0.2 %	0.3 %	2.1 %	3.7 %

	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	2.6446 ppm	0.8258 ppm	0.0580 ppm	8.1457 ppm	0.2004 ppm	0.1634 ppm	0.2792 ppm
Concentration per Run 1	2.6525 ppm	0.8243 ppm	0.0574 ppm	8.2895 ppm	0.2006 ppm	0.1642 ppm	0.2764 ppm
Concentration per Run 2	2.6421 ppm	0.8276 ppm	0.0581 ppm	8.0909 ppm	0.2013 ppm	0.1627 ppm	0.2808 ppm
Concentration per Run 3	2.6392 ppm	0.8256 ppm	0.0584 ppm	8.0567 ppm	0.1992 ppm	0.1632 ppm	0.2805 ppm
Concentration RSD	0.3 %	0.2 %	0.8 %	1.5 %	0.5 %	0.5 %	0.9 %

	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	0.0043 ppm	4.1140 ppm	0.2951 ppm	0.0664 ppm	0.2768 ppm	-0.0023 ppm	0.0135 ppm
Concentration per Run 1	0.0039 ppm	4.1510 ppm	0.2957 ppm	0.0666 ppm	0.2815 ppm	-0.0023 ppm	0.0137 ppm
Concentration per Run 2	0.0052 ppm	4.1002 ppm	0.2938 ppm	0.0663 ppm	0.2754 ppm	-0.0032 ppm	0.0135 ppm
Concentration per Run 3	0.0040 ppm	4.0909 ppm	0.2957 ppm	0.0664 ppm	0.2735 ppm	-0.0015 ppm	0.0134 ppm
Concentration RSD	16.5 %	0.8 %	0.4 %	0.3 %	1.5 %	38.1 %	1.0 %

	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	11.7133 ppm	101.2759 %	100.8205 %	84.2679 %	94.9599 %	98.9950 %	91.9149 %
Concentration per Run 1	11.7663 ppm	100.9206 %	101.2984 %	84.1134 %	94.8219 %	99.5213 %	91.8287 %
Concentration per Run 2	11.6985 ppm	101.3381 %	100.3829 %	84.1591 %	94.9284 %	98.4978 %	91.7010 %
Concentration per Run 3	11.6750 ppm	101.5689 %	100.7802 %	84.5311 %	95.1295 %	98.9658 %	92.2150 %
Concentration RSD	0.4 %	0.3 %	0.5 %	0.3 %	0.2 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2474115-05 WG2010756
Analysis started at: 12/18/2024 3:38:53 PM
Rack 2
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	0.0000 ppm	0.2242 ppm	0.0038 ppm	0.0073 ppm	0.0275 ppm	0.0000 ppm	3.0943 ppm
Concentration per Run 1	0.0001 ppm	0.2237 ppm	0.0051 ppm	0.0069 ppm	0.0274 ppm	0.0000 ppm	3.0879 ppm
Concentration per Run 2	-0.0001 ppm	0.2231 ppm	0.0033 ppm	0.0077 ppm	0.0275 ppm	0.0000 ppm	3.0913 ppm
Concentration per Run 3	0.0000 ppm	0.2259 ppm	0.0030 ppm	0.0073 ppm	0.0276 ppm	0.0000 ppm	3.1038 ppm
Concentration RSD	4,295.6 %	0.7 %	29.4 %	5.1 %	0.4 %	374.1 %	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	0.0001 ppm	0.0005 ppm	0.0039 ppm	0.0138 ppm	0.7187 ppm	0.2334 ppm	0.0019 ppm
Concentration per Run 1	0.0002 ppm	0.0002 ppm	0.0039 ppm	0.0141 ppm	0.7176 ppm	0.2396 ppm	0.0018 ppm
Concentration per Run 2	0.0001 ppm	0.0006 ppm	0.0038 ppm	0.0137 ppm	0.7169 ppm	0.2243 ppm	0.0018 ppm
Concentration per Run 3	0.0001 ppm	0.0007 ppm	0.0041 ppm	0.0135 ppm	0.7217 ppm	0.2363 ppm	0.0023 ppm
Concentration RSD	30.7 %	48.8 %	3.7 %	2.2 %	0.4 %	3.5 %	15.3 %

	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	0.5551 ppm	0.0334 ppm	0.0016 ppm	3.5019 ppm	0.0033 ppm	0.0022 ppm	0.0033 ppm
Concentration per Run 1	0.5587 ppm	0.0334 ppm	0.0016 ppm	3.5247 ppm	0.0028 ppm	0.0016 ppm	0.0019 ppm
Concentration per Run 2	0.5522 ppm	0.0334 ppm	0.0015 ppm	3.4769 ppm	0.0032 ppm	0.0033 ppm	0.0050 ppm
Concentration per Run 3	0.5545 ppm	0.0333 ppm	0.0017 ppm	3.5042 ppm	0.0038 ppm	0.0018 ppm	0.0031 ppm
Concentration RSD	0.6 %	0.2 %	6.7 %	0.7 %	14.5 %	40.3 %	46.6 %

	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	0.0035 ppm	0.4854 ppm	0.0313 ppm	0.0203 ppm	0.0102 ppm	-0.0014 ppm	0.0002 ppm
Concentration per Run 1	0.0036 ppm	0.4938 ppm	0.0326 ppm	0.0203 ppm	0.0101 ppm	-0.0013 ppm	0.0002 ppm
Concentration per Run 2	0.0038 ppm	0.4788 ppm	0.0302 ppm	0.0203 ppm	0.0109 ppm	-0.0015 ppm	0.0001 ppm
Concentration per Run 3	0.0031 ppm	0.4836 ppm	0.0311 ppm	0.0204 ppm	0.0095 ppm	-0.0016 ppm	0.0003 ppm
Concentration RSD	10.0 %	1.6 %	4.0 %	0.4 %	6.7 %	11.1 %	34.5 %

	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	0.1037 ppm	104.3886 %	101.6056 %	93.7076 %	97.5781 %	98.8734 %	95.3829 %
Concentration per Run 1	0.1043 ppm	104.1266 %	101.7657 %	93.2750 %	97.4043 %	99.0287 %	95.0558 %
Concentration per Run 2	0.1026 ppm	104.6198 %	101.6592 %	93.6254 %	97.3569 %	99.0267 %	95.2994 %
Concentration per Run 3	0.1042 ppm	104.4194 %	101.3920 %	94.2226 %	97.9729 %	98.5649 %	95.7936 %
Concentration RSD	0.9 %	0.2 %	0.2 %	0.5 %	0.4 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCV
Analysis started at: 12/18/2024 3:43:19 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	0.4740 ppm	0.4655 ppm	0.4726 ppm	0.4712 ppm	0.4872 ppm	0.4988 ppm	0.4825 ppm
Concentration per Run 1	0.4763 ppm	0.4586 ppm	0.4657 ppm	0.4734 ppm	0.4867 ppm	0.4947 ppm	0.4799 ppm
Concentration per Run 2	0.4757 ppm	0.4700 ppm	0.4764 ppm	0.4712 ppm	0.4871 ppm	0.5013 ppm	0.4842 ppm
Concentration per Run 3	0.4702 ppm	0.4679 ppm	0.4758 ppm	0.4690 ppm	0.4879 ppm	0.5003 ppm	0.4833 ppm
Recovery Percentage 1	94.808 %	93.095 %	94.525 %	94.241 %	97.446 %	99.752 %	96.491 %
Concentration RSD	0.7 %	1.3 %	1.3 %	0.5 %	0.1 %	0.7 %	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	0.4856 ppm	0.5001 ppm	0.4836 ppm	0.4809 ppm	0.4967 ppm	5.1577 ppm	0.4979 ppm
Concentration per Run 1	0.4889 ppm	0.5029 ppm	0.4858 ppm	0.4842 ppm	0.4944 ppm	5.1201 ppm	0.4924 ppm
Concentration per Run 2	0.4877 ppm	0.5019 ppm	0.4868 ppm	0.4803 ppm	0.4997 ppm	5.1859 ppm	0.4988 ppm
Concentration per Run 3	0.4802 ppm	0.4955 ppm	0.4784 ppm	0.4783 ppm	0.4960 ppm	5.1671 ppm	0.5026 ppm
Recovery Percentage 1	97.123 %	100.016 %	96.729 %	96.183 %	99.348 %	103.154 %	99.587 %
Concentration RSD	1.0 %	0.8 %	0.9 %	0.6 %	0.5 %	0.7 %	1.0 %

	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	0.4857 ppm	0.4782 ppm	0.4876 ppm	10.1760 ppm	0.4989 ppm	0.4855 ppm	0.4873 ppm
Concentration per Run 1	0.4872 ppm	0.4755 ppm	0.4869 ppm	10.2251 ppm	0.5023 ppm	0.4834 ppm	0.4895 ppm
Concentration per Run 2	0.4886 ppm	0.4807 ppm	0.4899 ppm	10.1355 ppm	0.5002 ppm	0.4858 ppm	0.4910 ppm
Concentration per Run 3	0.4813 ppm	0.4785 ppm	0.4860 ppm	10.1674 ppm	0.4943 ppm	0.4873 ppm	0.4814 ppm
Recovery Percentage 1	97.138 %	95.649 %	97.516 %	101.760 %	99.789 %	97.096 %	97.462 %
Concentration RSD	0.8 %	0.5 %	0.4 %	0.4 %	0.8 %	0.4 %	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	0.4790 ppm	5.3822 ppm	0.5025 ppm	0.5181 ppm	0.4845 ppm	0.4800 ppm	0.4892 ppm
Concentration per Run 1	0.4724 ppm	5.3948 ppm	0.5091 ppm	0.5131 ppm	0.4867 ppm	0.4771 ppm	0.4923 ppm
Concentration per Run 2	0.4816 ppm	5.4037 ppm	0.5038 ppm	0.5206 ppm	0.4863 ppm	0.4807 ppm	0.4893 ppm
Concentration per Run 3	0.4831 ppm	5.3481 ppm	0.4946 ppm	0.5205 ppm	0.4804 ppm	0.4822 ppm	0.4861 ppm
Recovery Percentage 1	95.809 %	102.518 %	100.494 %	103.618 %	96.891 %	96.005 %	97.845 %
Concentration RSD	1.2 %	0.6 %	1.5 %	0.8 %	0.7 %	0.5 %	0.6 %

	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	0.4870 ppm	101.1580 %	100.7309 %	93.4695 %	95.9047 %	98.4146 %	96.3627 %
Concentration per Run 1	0.4909 ppm	100.6706 %	101.3151 %	93.6118 %	96.3810 %	98.4038 %	96.9121 %
Concentration per Run 2	0.4887 ppm	101.0914 %	100.1693 %	93.4217 %	95.4098 %	98.4309 %	96.0470 %
Concentration per Run 3	0.4814 ppm	101.7122 %	100.7083 %	93.3751 %	95.9233 %	98.4090 %	96.1290 %
Recovery Percentage 1	97.397 %						
Concentration RSD	1.0 %	0.5 %	0.6 %	0.1 %	0.5 %	0.0 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCB
Analysis started at: 12/18/2024 3:47:45 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	-0.0043 ppm	0.0011 ppm	-0.0005 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm
Concentration per Run 1	-0.0004 ppm	-0.0054 ppm	0.0008 ppm	-0.0004 ppm	0.0001 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 2	-0.0003 ppm	-0.0013 ppm	0.0011 ppm	-0.0012 ppm	0.0000 ppm	0.0001 ppm	0.0010 ppm
Concentration per Run 3	-0.0001 ppm	-0.0062 ppm	0.0014 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm
Recovery Percentage 1	-5.652 %	-4.303 %	22.262 %	-1.532 %	0.002 %	1.181 %	0.443 %
Concentration RSD	43.4 %	60.6 %	30.8 %	169.1 %	34,027.0 %	45.3 %	135.5 %

	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	-0.0002 ppm	0.0000 ppm	-0.0003 ppm	0.0017 ppm	0.0093 ppm	0.0001 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0000 ppm	-0.0003 ppm	0.0025 ppm	0.0121 ppm	0.0002 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0009 ppm	0.0040 ppm	-0.0002 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0002 ppm	-0.0004 ppm	0.0017 ppm	0.0119 ppm	0.0004 ppm
Recovery Percentage 1	0.376 %	-1.705 %	0.439 %	-2.598 %	3.344 %	0.374 %	1.253 %
Concentration RSD	330.4 %	42.7 %	218.8 %	41.8 %	46.8 %	49.4 %	275.9 %

	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	-0.0005 ppm	0.0000 ppm	0.0038 ppm	0.0019 ppm	0.0002 ppm	0.0003 ppm	0.0005 ppm
Concentration per Run 1	0.0005 ppm	0.0001 ppm	0.0038 ppm	0.0007 ppm	0.0004 ppm	0.0004 ppm	0.0005 ppm
Concentration per Run 2	-0.0002 ppm	0.0000 ppm	0.0036 ppm	0.0032 ppm	0.0003 ppm	0.0007 ppm	0.0022 ppm
Concentration per Run 3	-0.0017 ppm	-0.0001 ppm	0.0039 ppm	0.0018 ppm	-0.0002 ppm	-0.0001 ppm	-0.0013 ppm
Recovery Percentage 1	-0.453 %	0.372 %	7.551 %	0.095 %	0.626 %	3.412 %	0.955 %
Concentration RSD	250.5 %	303.0 %	3.7 %	66.8 %	181.7 %	117.2 %	361.5 %

	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	0.0005 ppm	0.0010 ppm	0.0010 ppm	0.0001 ppm	0.0003 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 1	-0.0001 ppm	0.0014 ppm	0.0011 ppm	0.0001 ppm	0.0004 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 2	0.0010 ppm	0.0021 ppm	0.0008 ppm	0.0000 ppm	0.0002 ppm	-0.0007 ppm	0.0000 ppm
Concentration per Run 3	0.0006 ppm	-0.0004 ppm	0.0010 ppm	0.0001 ppm	0.0003 ppm	-0.0008 ppm	0.0002 ppm
Recovery Percentage 1	5.371 %	0.209 %	1.966 %	0.850 %	3.049 %	-2.191 %	0.483 %
Concentration RSD	103.7 %	122.3 %	12.4 %	46.6 %	38.3 %	117.2 %	279.8 %

	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	0.0002 ppm	100.2766 %	99.9922 %	94.0222 %	98.2983 %	99.0356 %	97.4015 %
Concentration per Run 1	0.0002 ppm	99.2970 %	100.5442 %	93.2944 %	97.4575 %	99.7433 %	97.2289 %
Concentration per Run 2	0.0001 ppm	100.2109 %	99.6645 %	93.8538 %	98.4576 %	98.5399 %	97.1437 %
Concentration per Run 3	0.0002 ppm	101.3219 %	99.7679 %	94.9184 %	98.9797 %	98.8237 %	97.8320 %
Recovery Percentage 1	3.399 %						
Concentration RSD	34.8 %	1.0 %	0.5 %	0.9 %	0.8 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472587-03D2 WG2010479
Analysis started at: 12/18/2024 4:18:08 PM
Rack 2
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	0.0007 ppm	83.1343 ppm	0.1007 ppm	0.0031 ppm	0.3120 ppm	0.0043 ppm	12.4210 ppm
Concentration per Run 1	0.0008 ppm	83.3857 ppm	0.1013 ppm	0.0024 ppm	0.3133 ppm	0.0043 ppm	12.4091 ppm
Concentration per Run 2	0.0010 ppm	82.7479 ppm	0.1018 ppm	0.0039 ppm	0.3100 ppm	0.0043 ppm	12.4346 ppm
Concentration per Run 3	0.0003 ppm	83.2694 ppm	0.0991 ppm	0.0029 ppm	0.3127 ppm	0.0043 ppm	12.4192 ppm
Concentration RSD	49.8 %	0.4 %	1.5 %	25.4 %	0.6 %	0.5 %	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	0.0013 ppm	0.0725 ppm	0.1407 ppm	0.1640 ppm	126.3372 ppm	10.0670 ppm	0.2333 ppm
Concentration per Run 1	0.0014 ppm	0.0735 ppm	0.1413 ppm	0.1653 ppm	125.9252 ppm	10.0613 ppm	0.2340 ppm
Concentration per Run 2	0.0014 ppm	0.0714 ppm	0.1409 ppm	0.1631 ppm	126.2704 ppm	10.0744 ppm	0.2322 ppm
Concentration per Run 3	0.0012 ppm	0.0726 ppm	0.1399 ppm	0.1637 ppm	126.8162 ppm	10.0655 ppm	0.2338 ppm
Concentration RSD	7.7 %	1.4 %	0.5 %	0.7 %	0.4 %	0.1 %	0.4 %

	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	32.9865 ppm	2.5762 ppm	0.0039 ppm	5.0437 ppm	0.1231 ppm	0.1339 ppm	-0.0016 ppm
Concentration per Run 1	33.1418 ppm	2.5726 ppm	0.0040 ppm	5.0763 ppm	0.1241 ppm	0.1336 ppm	-0.0031 ppm
Concentration per Run 2	32.8722 ppm	2.5751 ppm	0.0042 ppm	5.0015 ppm	0.1221 ppm	0.1350 ppm	-0.0021 ppm
Concentration per Run 3	32.9455 ppm	2.5808 ppm	0.0035 ppm	5.0531 ppm	0.1230 ppm	0.1330 ppm	0.0003 ppm
Concentration RSD	0.4 %	0.2 %	9.2 %	0.8 %	0.8 %	0.8 %	105.5 %

	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	0.0018 ppm	4.7533 ppm	0.0095 ppm	0.0419 ppm	3.0770 ppm	0.0010 ppm	0.2266 ppm
Concentration per Run 1	0.0019 ppm	4.7686 ppm	0.0092 ppm	0.0423 ppm	3.0885 ppm	0.0011 ppm	0.2269 ppm
Concentration per Run 2	0.0034 ppm	4.7343 ppm	0.0098 ppm	0.0415 ppm	3.0771 ppm	0.0017 ppm	0.2260 ppm
Concentration per Run 3	0.0002 ppm	4.7569 ppm	0.0095 ppm	0.0420 ppm	3.0654 ppm	0.0004 ppm	0.2267 ppm
Concentration RSD	87.1 %	0.4 %	3.3 %	1.0 %	0.4 %	63.1 %	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	0.2986 ppm	104.3805 %	104.0022 %	84.3312 %	111.2790 %	116.5745 %	111.4848 %
Concentration per Run 1	0.3008 ppm	104.0828 %	104.5873 %	84.0691 %	111.2564 %	117.4432 %	111.2402 %
Concentration per Run 2	0.2971 ppm	104.3828 %	103.8067 %	84.4262 %	111.3320 %	116.0552 %	111.8303 %
Concentration per Run 3	0.2980 ppm	104.6758 %	103.6126 %	84.4983 %	111.2487 %	116.2252 %	111.3840 %
Concentration RSD	0.7 %	0.3 %	0.5 %	0.3 %	0.0 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473702-02D2 WG2010479
Analysis started at: 12/18/2024 4:22:54 PM
Rack 2
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	0.0006 ppm	84.9077 ppm	0.0163 ppm	0.0235 ppm	0.1742 ppm	0.0031 ppm	4.7135 ppm
Concentration per Run 1	0.0006 ppm	84.9628 ppm	0.0150 ppm	0.0237 ppm	0.1745 ppm	0.0031 ppm	4.7310 ppm
Concentration per Run 2	0.0005 ppm	85.1211 ppm	0.0162 ppm	0.0232 ppm	0.1745 ppm	0.0031 ppm	4.7368 ppm
Concentration per Run 3	0.0007 ppm	84.6393 ppm	0.0176 ppm	0.0235 ppm	0.1735 ppm	0.0030 ppm	4.6728 ppm
Concentration RSD	15.4 %	0.3 %	7.9 %	0.9 %	0.3 %	2.3 %	0.8 %

	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	0.0003 ppm	0.0545 ppm	0.1020 ppm	0.0903 ppm	116.1287 ppm	5.5477 ppm	0.0839 ppm
Concentration per Run 1	0.0002 ppm	0.0551 ppm	0.1022 ppm	0.0912 ppm	116.4800 ppm	5.5531 ppm	0.0840 ppm
Concentration per Run 2	0.0003 ppm	0.0541 ppm	0.1016 ppm	0.0894 ppm	116.3553 ppm	5.5671 ppm	0.0844 ppm
Concentration per Run 3	0.0003 ppm	0.0543 ppm	0.1021 ppm	0.0901 ppm	115.5507 ppm	5.5230 ppm	0.0833 ppm
Concentration RSD	24.7 %	0.9 %	0.3 %	1.0 %	0.4 %	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	20.2958 ppm	2.1127 ppm	0.0043 ppm	3.7468 ppm	0.0772 ppm	0.0620 ppm	-0.0009 ppm
Concentration per Run 1	20.3011 ppm	2.1162 ppm	0.0047 ppm	3.7398 ppm	0.0778 ppm	0.0623 ppm	-0.0001 ppm
Concentration per Run 2	20.2885 ppm	2.1168 ppm	0.0039 ppm	3.7701 ppm	0.0764 ppm	0.0621 ppm	-0.0013 ppm
Concentration per Run 3	20.2977 ppm	2.1051 ppm	0.0042 ppm	3.7305 ppm	0.0773 ppm	0.0616 ppm	-0.0013 ppm
Concentration RSD	0.0 %	0.3 %	9.6 %	0.6 %	0.9 %	0.6 %	74.9 %

	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	0.0004 ppm	3.7202 ppm	0.0035 ppm	0.0362 ppm	3.0838 ppm	0.0018 ppm	0.2844 ppm
Concentration per Run 1	0.0004 ppm	3.7936 ppm	0.0031 ppm	0.0362 ppm	3.0991 ppm	0.0006 ppm	0.2860 ppm
Concentration per Run 2	-0.0001 ppm	3.6861 ppm	0.0038 ppm	0.0364 ppm	3.0788 ppm	0.0019 ppm	0.2846 ppm
Concentration per Run 3	0.0009 ppm	3.6811 ppm	0.0035 ppm	0.0361 ppm	3.0734 ppm	0.0028 ppm	0.2827 ppm
Concentration RSD	138.9 %	1.7 %	11.2 %	0.5 %	0.4 %	61.4 %	0.6 %

	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	0.1573 ppm	106.4421 %	107.4399 %	86.4742 %	105.6933 %	110.2889 %	105.8795 %
Concentration per Run 1	0.1570 ppm	106.1297 %	107.7194 %	86.5451 %	105.9680 %	110.7881 %	106.0732 %
Concentration per Run 2	0.1571 ppm	106.6281 %	106.9544 %	86.5048 %	106.1390 %	109.9118 %	105.8936 %
Concentration per Run 3	0.1577 ppm	106.5686 %	107.6459 %	86.3727 %	104.9730 %	110.1667 %	105.6716 %
Concentration RSD	0.3 %	0.3 %	0.4 %	0.1 %	0.6 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473703-01D2 WG2010479
Analysis started at: 12/18/2024 4:27:20 PM
Rack 2
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	0.0044 ppm	90.2780 ppm	0.0308 ppm	0.0130 ppm	0.9446 ppm	0.0042 ppm	9.2518 ppm
Concentration per Run 1	0.0045 ppm	90.3368 ppm	0.0305 ppm	0.0133 ppm	0.9430 ppm	0.0042 ppm	9.2342 ppm
Concentration per Run 2	0.0039 ppm	90.0998 ppm	0.0312 ppm	0.0119 ppm	0.9486 ppm	0.0043 ppm	9.2696 ppm
Concentration per Run 3	0.0047 ppm	90.3974 ppm	0.0306 ppm	0.0136 ppm	0.9421 ppm	0.0042 ppm	9.2515 ppm
Concentration RSD	9.8 %	0.2 %	1.1 %	6.9 %	0.4 %	1.1 %	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	0.0002 ppm	0.0363 ppm	0.1120 ppm	0.2030 ppm	118.9445 ppm	4.5928 ppm	0.0801 ppm
Concentration per Run 1	0.0004 ppm	0.0367 ppm	0.1119 ppm	0.2045 ppm	118.5771 ppm	4.6117 ppm	0.0809 ppm
Concentration per Run 2	0.0001 ppm	0.0364 ppm	0.1117 ppm	0.2033 ppm	119.6008 ppm	4.5684 ppm	0.0794 ppm
Concentration per Run 3	0.0002 ppm	0.0357 ppm	0.1123 ppm	0.2013 ppm	118.6556 ppm	4.5981 ppm	0.0800 ppm
Concentration RSD	77.4 %	1.4 %	0.3 %	0.8 %	0.5 %	0.5 %	1.0 %

	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	14.3130 ppm	4.5609 ppm	0.0070 ppm	7.9332 ppm	0.0700 ppm	3.5314 ppm	0.0023 ppm
Concentration per Run 1	14.3623 ppm	4.5550 ppm	0.0068 ppm	7.9598 ppm	0.0706 ppm	3.5331 ppm	0.0035 ppm
Concentration per Run 2	14.2668 ppm	4.5711 ppm	0.0072 ppm	7.8811 ppm	0.0699 ppm	3.5493 ppm	0.0012 ppm
Concentration per Run 3	14.3098 ppm	4.5568 ppm	0.0070 ppm	7.9587 ppm	0.0696 ppm	3.5118 ppm	0.0021 ppm
Concentration RSD	0.3 %	0.2 %	3.1 %	0.6 %	0.8 %	0.5 %	51.5 %

	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	0.0047 ppm	4.0927 ppm	0.1324 ppm	0.0951 ppm	2.3824 ppm	-0.0016 ppm	0.2787 ppm
Concentration per Run 1	0.0037 ppm	4.1217 ppm	0.1328 ppm	0.0955 ppm	2.3833 ppm	-0.0023 ppm	0.2790 ppm
Concentration per Run 2	0.0060 ppm	4.0749 ppm	0.1333 ppm	0.0952 ppm	2.3887 ppm	0.0011 ppm	0.2809 ppm
Concentration per Run 3	0.0044 ppm	4.0815 ppm	0.1311 ppm	0.0948 ppm	2.3752 ppm	-0.0035 ppm	0.2762 ppm
Concentration RSD	25.6 %	0.6 %	0.9 %	0.4 %	0.3 %	155.2 %	0.8 %

	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	0.4013 ppm	103.0274 %	104.4261 %	84.1986 %	121.0560 %	128.5468 %	121.4437 %
Concentration per Run 1	0.4038 ppm	102.5152 %	104.8115 %	84.2208 %	121.0617 %	129.4671 %	121.5686 %
Concentration per Run 2	0.3982 ppm	103.1180 %	104.0850 %	83.3323 %	121.5349 %	127.9385 %	120.7345 %
Concentration per Run 3	0.4020 ppm	103.4492 %	104.3819 %	85.0427 %	120.5715 %	128.2347 %	122.0280 %
Concentration RSD	0.7 %	0.5 %	0.3 %	1.0 %	0.4 %	0.6 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473703-02D2 WG2010479
Analysis started at: 12/18/2024 4:31:47 PM
Rack 2
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	0.0004 ppm	52.0272 ppm	0.0122 ppm	0.0131 ppm	0.1145 ppm	0.0023 ppm	1.9873 ppm
Concentration per Run 1	0.0004 ppm	52.0271 ppm	0.0120 ppm	0.0129 ppm	0.1145 ppm	0.0023 ppm	1.9850 ppm
Concentration per Run 2	0.0002 ppm	52.0297 ppm	0.0123 ppm	0.0136 ppm	0.1147 ppm	0.0024 ppm	1.9802 ppm
Concentration per Run 3	0.0005 ppm	52.0248 ppm	0.0123 ppm	0.0127 ppm	0.1142 ppm	0.0023 ppm	1.9967 ppm
Concentration RSD	49.0 %	0.0 %	1.5 %	3.7 %	0.2 %	2.5 %	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	0.0335 ppm	0.0765 ppm	0.0781 ppm	90.3199 ppm	3.6347 ppm	0.0688 ppm
Concentration per Run 1	0.0004 ppm	0.0330 ppm	0.0768 ppm	0.0785 ppm	90.2930 ppm	3.6620 ppm	0.0691 ppm
Concentration per Run 2	0.0002 ppm	0.0338 ppm	0.0763 ppm	0.0781 ppm	90.1505 ppm	3.6522 ppm	0.0693 ppm
Concentration per Run 3	0.0004 ppm	0.0335 ppm	0.0764 ppm	0.0777 ppm	90.5163 ppm	3.5900 ppm	0.0678 ppm
Concentration RSD	33.1 %	1.2 %	0.4 %	0.5 %	0.2 %	1.1 %	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	15.1422 ppm	2.0229 ppm	0.0019 ppm	1.8863 ppm	0.0561 ppm	0.0386 ppm	-0.0010 ppm
Concentration per Run 1	15.1755 ppm	2.0210 ppm	0.0018 ppm	1.9000 ppm	0.0563 ppm	0.0393 ppm	0.0000 ppm
Concentration per Run 2	15.0838 ppm	2.0117 ppm	0.0018 ppm	1.8910 ppm	0.0559 ppm	0.0387 ppm	-0.0016 ppm
Concentration per Run 3	15.1673 ppm	2.0359 ppm	0.0020 ppm	1.8679 ppm	0.0560 ppm	0.0378 ppm	-0.0014 ppm
Concentration RSD	0.3 %	0.6 %	6.3 %	0.9 %	0.4 %	1.9 %	84.9 %

	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	0.0008 ppm	2.5682 ppm	0.0027 ppm	0.0157 ppm	3.2294 ppm	0.0007 ppm	0.2040 ppm
Concentration per Run 1	0.0021 ppm	2.5665 ppm	0.0032 ppm	0.0156 ppm	3.2368 ppm	0.0011 ppm	0.2044 ppm
Concentration per Run 2	0.0001 ppm	2.5822 ppm	0.0025 ppm	0.0157 ppm	3.2244 ppm	0.0001 ppm	0.2041 ppm
Concentration per Run 3	0.0003 ppm	2.5558 ppm	0.0023 ppm	0.0156 ppm	3.2271 ppm	0.0008 ppm	0.2036 ppm
Concentration RSD	126.2 %	0.5 %	17.2 %	0.3 %	0.2 %	73.6 %	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	0.1132 ppm	105.7630 %	105.9371 %	87.1315 %	111.1495 %	115.6880 %	111.1080 %
Concentration per Run 1	0.1134 ppm	105.4678 %	106.2609 %	87.4086 %	110.8006 %	116.3717 %	111.6541 %
Concentration per Run 2	0.1128 ppm	106.1105 %	106.1530 %	86.8357 %	111.8449 %	115.6481 %	110.7086 %
Concentration per Run 3	0.1134 ppm	105.7108 %	105.3972 %	87.1501 %	110.8029 %	115.0442 %	110.9612 %
Concentration RSD	0.3 %	0.3 %	0.4 %	0.3 %	0.5 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCV
Analysis started at: 12/18/2024 4:37:44 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	0.4729 ppm	0.4722 ppm	0.4687 ppm	0.4724 ppm	0.4905 ppm	0.4994 ppm	0.4807 ppm
Concentration per Run 1	0.4756 ppm	0.4723 ppm	0.4707 ppm	0.4775 ppm	0.4924 ppm	0.4981 ppm	0.4799 ppm
Concentration per Run 2	0.4723 ppm	0.4710 ppm	0.4669 ppm	0.4687 ppm	0.4860 ppm	0.4984 ppm	0.4818 ppm
Concentration per Run 3	0.4707 ppm	0.4734 ppm	0.4685 ppm	0.4709 ppm	0.4931 ppm	0.5018 ppm	0.4805 ppm
Recovery Percentage 1	94.575 %	94.438 %	93.735 %	94.478 %	98.103 %	99.884 %	96.144 %
Concentration RSD	0.5 %	0.3 %	0.4 %	1.0 %	0.8 %	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	0.4798 ppm	0.4988 ppm	0.4807 ppm	0.4811 ppm	0.5009 ppm	5.1332 ppm	0.5010 ppm
Concentration per Run 1	0.4803 ppm	0.4999 ppm	0.4827 ppm	0.4846 ppm	0.4991 ppm	5.1138 ppm	0.5020 ppm
Concentration per Run 2	0.4796 ppm	0.4980 ppm	0.4792 ppm	0.4812 ppm	0.5023 ppm	5.1077 ppm	0.4932 ppm
Concentration per Run 3	0.4796 ppm	0.4986 ppm	0.4802 ppm	0.4775 ppm	0.5014 ppm	5.1782 ppm	0.5076 ppm
Recovery Percentage 1	95.964 %	99.766 %	96.135 %	96.225 %	100.187 %	102.665 %	100.191 %
Concentration RSD	0.1 %	0.2 %	0.4 %	0.7 %	0.3 %	0.8 %	1.5 %

	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	0.4849 ppm	0.4791 ppm	0.4853 ppm	10.0850 ppm	0.4957 ppm	0.4802 ppm	0.4887 ppm
Concentration per Run 1	0.4875 ppm	0.4774 ppm	0.4835 ppm	10.0414 ppm	0.4968 ppm	0.4827 ppm	0.4896 ppm
Concentration per Run 2	0.4816 ppm	0.4800 ppm	0.4857 ppm	10.0304 ppm	0.4955 ppm	0.4784 ppm	0.4889 ppm
Concentration per Run 3	0.4856 ppm	0.4799 ppm	0.4866 ppm	10.1833 ppm	0.4947 ppm	0.4795 ppm	0.4877 ppm
Recovery Percentage 1	96.979 %	95.821 %	97.054 %	100.850 %	99.136 %	96.039 %	97.747 %
Concentration RSD	0.6 %	0.3 %	0.3 %	0.8 %	0.2 %	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	0.4775 ppm	5.3772 ppm	0.4994 ppm	0.5212 ppm	0.4832 ppm	0.4764 ppm	0.4874 ppm
Concentration per Run 1	0.4797 ppm	5.3872 ppm	0.5001 ppm	0.5230 ppm	0.4860 ppm	0.4783 ppm	0.4897 ppm
Concentration per Run 2	0.4725 ppm	5.3785 ppm	0.4995 ppm	0.5173 ppm	0.4809 ppm	0.4740 ppm	0.4862 ppm
Concentration per Run 3	0.4803 ppm	5.3660 ppm	0.4986 ppm	0.5232 ppm	0.4827 ppm	0.4770 ppm	0.4863 ppm
Recovery Percentage 1	95.494 %	102.423 %	99.886 %	104.239 %	96.642 %	95.283 %	97.478 %
Concentration RSD	0.9 %	0.2 %	0.2 %	0.6 %	0.5 %	0.5 %	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	0.4811 ppm	101.7588 %	100.4676 %	94.1839 %	96.7118 %	98.9246 %	96.4889 %
Concentration per Run 1	0.4800 ppm	101.3091 %	100.8569 %	94.4005 %	97.1003 %	98.7610 %	96.6363 %
Concentration per Run 2	0.4816 ppm	101.9665 %	100.0521 %	94.2885 %	96.3497 %	98.9578 %	96.5792 %
Concentration per Run 3	0.4817 ppm	102.0009 %	100.4937 %	93.8627 %	96.6852 %	99.0550 %	96.2510 %
Recovery Percentage 1	96.222 %						
Concentration RSD	0.2 %	0.4 %	0.4 %	0.3 %	0.4 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCB
Analysis started at: 12/18/2024 4:42:14 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	-0.0039 ppm	0.0011 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 1	-0.0001 ppm	-0.0032 ppm	0.0005 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0011 ppm
Concentration per Run 2	-0.0001 ppm	-0.0054 ppm	0.0011 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 3	-0.0004 ppm	-0.0030 ppm	0.0016 ppm	0.0009 ppm	-0.0001 ppm	0.0000 ppm	-0.0002 ppm
Recovery Percentage 1	-3.448 %	-3.866 %	21.917 %	1.972 %	-0.180 %	0.571 %	0.392 %
Concentration RSD	93.1 %	33.5 %	49.7 %	96.7 %	161.8 %	42.9 %	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	-0.0002 ppm	0.0001 ppm	-0.0003 ppm	0.0029 ppm	0.0121 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0002 ppm	-0.0001 ppm	0.0032 ppm	0.0128 ppm	0.0002 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	0.0001 ppm	-0.0004 ppm	0.0028 ppm	0.0193 ppm	0.0006 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0004 ppm	0.0027 ppm	0.0042 ppm	0.0006 ppm
Recovery Percentage 1	-0.329 %	-2.254 %	1.197 %	-2.903 %	5.810 %	0.484 %	4.757 %
Concentration RSD	336.9 %	81.8 %	57.3 %	60.2 %	8.7 %	62.8 %	57.8 %

	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	-0.0002 ppm	0.0001 ppm	0.0034 ppm	0.0005 ppm	0.0005 ppm	0.0009 ppm	-0.0001 ppm
Concentration per Run 1	-0.0007 ppm	0.0001 ppm	0.0034 ppm	0.0008 ppm	0.0004 ppm	0.0004 ppm	0.0011 ppm
Concentration per Run 2	-0.0004 ppm	0.0000 ppm	0.0035 ppm	0.0009 ppm	0.0004 ppm	0.0012 ppm	-0.0016 ppm
Concentration per Run 3	0.0006 ppm	0.0001 ppm	0.0032 ppm	-0.0003 ppm	0.0006 ppm	0.0011 ppm	0.0003 ppm
Recovery Percentage 1	-0.181 %	0.989 %	6.796 %	0.024 %	2.008 %	8.854 %	-0.167 %
Concentration RSD	403.7 %	56.8 %	4.1 %	134.2 %	18.6 %	45.0 %	1,617.3 %

	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	0.0022 ppm	0.0026 ppm	-0.0002 ppm	0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 1	0.0021 ppm	0.0009 ppm	0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 2	0.0025 ppm	0.0050 ppm	-0.0007 ppm	0.0001 ppm	0.0002 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 3	0.0019 ppm	0.0019 ppm	-0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm	-0.0001 ppm
Recovery Percentage 1	21.826 %	0.518 %	-0.440 %	1.039 %	1.788 %	-0.698 %	0.651 %
Concentration RSD	12.9 %	83.9 %	211.8 %	16.8 %	25.2 %	384.4 %	190.2 %

	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	0.0002 ppm	100.7717 %	100.4026 %	95.1379 %	98.8189 %	99.9608 %	97.7502 %
Concentration per Run 1	0.0001 ppm	99.6435 %	100.5040 %	94.9001 %	98.5230 %	100.4363 %	97.8686 %
Concentration per Run 2	0.0004 ppm	101.1111 %	99.5612 %	94.6125 %	99.0118 %	99.4482 %	97.2033 %
Concentration per Run 3	0.0000 ppm	101.5606 %	101.1426 %	95.9010 %	98.9218 %	99.9980 %	98.1788 %
Recovery Percentage 1	3.851 %						
Concentration RSD	98.7 %	1.0 %	0.8 %	0.7 %	0.3 %	0.5 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCV
Analysis started at: 12/18/2024 5:53:11 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	0.4780 ppm	0.4676 ppm	0.4695 ppm	0.4676 ppm	0.4864 ppm	0.4974 ppm	0.4815 ppm
Concentration per Run 1	0.4784 ppm	0.4722 ppm	0.4679 ppm	0.4701 ppm	0.4889 ppm	0.4981 ppm	0.4835 ppm
Concentration per Run 2	0.4791 ppm	0.4671 ppm	0.4702 ppm	0.4646 ppm	0.4843 ppm	0.4951 ppm	0.4760 ppm
Concentration per Run 3	0.4766 ppm	0.4634 ppm	0.4704 ppm	0.4681 ppm	0.4861 ppm	0.4991 ppm	0.4849 ppm
Recovery Percentage 1	95.605 %	93.513 %	93.900 %	93.518 %	97.283 %	99.487 %	96.296 %
Concentration RSD	0.3 %	0.9 %	0.3 %	0.6 %	0.5 %	0.4 %	1.0 %

	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	0.4661 ppm	0.4897 ppm	0.4708 ppm	0.4884 ppm	0.4936 ppm	5.0987 ppm	0.4951 ppm
Concentration per Run 1	0.4672 ppm	0.4920 ppm	0.4713 ppm	0.4902 ppm	0.4970 ppm	5.1391 ppm	0.5025 ppm
Concentration per Run 2	0.4644 ppm	0.4892 ppm	0.4717 ppm	0.4870 ppm	0.4925 ppm	5.1048 ppm	0.4944 ppm
Concentration per Run 3	0.4666 ppm	0.4878 ppm	0.4694 ppm	0.4880 ppm	0.4915 ppm	5.0521 ppm	0.4884 ppm
Recovery Percentage 1	93.214 %	97.933 %	94.160 %	97.680 %	98.729 %	101.973 %	99.019 %
Concentration RSD	0.3 %	0.4 %	0.3 %	0.3 %	0.6 %	0.9 %	1.4 %

	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	0.4786 ppm	0.4759 ppm	0.4760 ppm	10.0785 ppm	0.4867 ppm	0.4744 ppm	0.4891 ppm
Concentration per Run 1	0.4806 ppm	0.4769 ppm	0.4729 ppm	10.1848 ppm	0.4868 ppm	0.4739 ppm	0.4935 ppm
Concentration per Run 2	0.4795 ppm	0.4733 ppm	0.4749 ppm	10.0861 ppm	0.4882 ppm	0.4748 ppm	0.4844 ppm
Concentration per Run 3	0.4756 ppm	0.4776 ppm	0.4802 ppm	9.9647 ppm	0.4850 ppm	0.4745 ppm	0.4895 ppm
Recovery Percentage 1	95.714 %	95.179 %	95.196 %	100.785 %	97.335 %	94.879 %	97.825 %
Concentration RSD	0.5 %	0.5 %	0.8 %	1.1 %	0.3 %	0.1 %	0.9 %

	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	0.4868 ppm	5.4210 ppm	0.4933 ppm	0.5164 ppm	0.4747 ppm	0.4762 ppm	0.4780 ppm
Concentration per Run 1	0.4837 ppm	5.4399 ppm	0.4951 ppm	0.5191 ppm	0.4750 ppm	0.4742 ppm	0.4785 ppm
Concentration per Run 2	0.4890 ppm	5.3985 ppm	0.4916 ppm	0.5142 ppm	0.4752 ppm	0.4780 ppm	0.4792 ppm
Concentration per Run 3	0.4876 ppm	5.4245 ppm	0.4932 ppm	0.5159 ppm	0.4739 ppm	0.4763 ppm	0.4764 ppm
Recovery Percentage 1	97.358 %	103.257 %	98.652 %	103.284 %	94.939 %	95.231 %	95.609 %
Concentration RSD	0.6 %	0.4 %	0.4 %	0.5 %	0.1 %	0.4 %	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	0.4669 ppm	105.0917 %	101.2066 %	98.2246 %	98.6953 %	98.3908 %	97.6317 %
Concentration per Run 1	0.4676 ppm	105.4424 %	101.6296 %	98.5957 %	99.3642 %	98.9057 %	98.1014 %
Concentration per Run 2	0.4664 ppm	104.5517 %	101.9795 %	98.0797 %	97.8767 %	99.1063 %	97.5492 %
Concentration per Run 3	0.4668 ppm	105.2810 %	100.0107 %	97.9984 %	98.8449 %	97.1603 %	97.2446 %
Recovery Percentage 1	93.388 %						
Concentration RSD	0.1 %	0.5 %	1.0 %	0.3 %	0.8 %	1.1 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCB
Analysis started at: 12/18/2024 5:57:59 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	-0.0018 ppm	0.0018 ppm	-0.0008 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	-0.0019 ppm	0.0010 ppm	-0.0007 ppm	-0.0001 ppm	0.0000 ppm	0.0016 ppm
Concentration per Run 2	-0.0003 ppm	0.0016 ppm	0.0021 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 3	-0.0002 ppm	-0.0052 ppm	0.0023 ppm	-0.0016 ppm	0.0000 ppm	0.0000 ppm	-0.0006 ppm
Recovery Percentage 1	-3.550 %	-1.834 %	36.486 %	-2.625 %	-0.551 %	0.673 %	0.108 %
Concentration RSD	73.4 %	186.0 %	37.5 %	95.8 %	33.5 %	74.3 %	1,158.6 %

	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	0.0000 ppm	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0007 ppm	0.0077 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	-0.0002 ppm	-0.0003 ppm	0.0011 ppm	0.0097 ppm	0.0004 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	-0.0001 ppm	0.0002 ppm	-0.0005 ppm	0.0008 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0000 ppm	-0.0002 ppm	0.0008 ppm	0.0140 ppm	0.0001 ppm
Recovery Percentage 1	0.418 %	0.625 %	-1.576 %	-1.877 %	1.449 %	0.309 %	4.346 %
Concentration RSD	87.7 %	498.8 %	113.3 %	39.3 %	66.4 %	96.7 %	70.2 %

	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	0.0005 ppm	0.0000 ppm	0.0033 ppm	-0.0001 ppm	0.0006 ppm	0.0006 ppm	-0.0011 ppm
Concentration per Run 1	-0.0014 ppm	0.0001 ppm	0.0035 ppm	0.0005 ppm	0.0006 ppm	0.0006 ppm	-0.0018 ppm
Concentration per Run 2	0.0012 ppm	0.0001 ppm	0.0033 ppm	-0.0011 ppm	0.0004 ppm	0.0007 ppm	-0.0004 ppm
Concentration per Run 3	0.0019 ppm	0.0000 ppm	0.0030 ppm	0.0002 ppm	0.0009 ppm	0.0005 ppm	-0.0010 ppm
Recovery Percentage 1	0.549 %	0.454 %	6.535 %	-0.007 %	2.520 %	5.796 %	-2.143 %
Concentration RSD	320.2 %	166.8 %	8.9 %	592.3 %	33.8 %	18.9 %	65.0 %

	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	-0.0014 ppm	0.0005 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 1	-0.0012 ppm	-0.0010 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	-0.0006 ppm	0.0000 ppm
Concentration per Run 2	0.0004 ppm	-0.0008 ppm	0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 3	0.0004 ppm	-0.0023 ppm	0.0007 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm
Recovery Percentage 1	-1.460 %	-0.277 %	1.079 %	0.937 %	0.934 %	-0.629 %	-0.007 %
Concentration RSD	653.2 %	59.7 %	53.7 %	9.4 %	54.9 %	356.4 %	6,215.5 %

	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	0.0003 ppm	99.6291 %	100.4656 %	95.1689 %	98.7098 %	99.3804 %	97.7979 %
Concentration per Run 1	0.0002 ppm	98.4234 %	100.4296 %	94.8296 %	98.3997 %	99.3814 %	97.5112 %
Concentration per Run 2	0.0002 ppm	99.9944 %	101.2257 %	94.9815 %	99.1643 %	99.7789 %	97.7005 %
Concentration per Run 3	0.0004 ppm	100.4696 %	99.7414 %	95.6956 %	98.5653 %	98.9810 %	98.1821 %
Recovery Percentage 1	5.352 %						
Concentration RSD	31.7 %	1.1 %	0.7 %	0.5 %	0.4 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010523-1 WG2010523
Analysis started at: 12/18/2024 6:11:50 PM
Rack 2
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	-0.0002 ppm	0.0138 ppm	0.0005 ppm	-0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0259 ppm
Concentration per Run 1	-0.0002 ppm	0.0153 ppm	-0.0008 ppm	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0263 ppm
Concentration per Run 2	-0.0001 ppm	0.0116 ppm	0.0013 ppm	-0.0007 ppm	0.0002 ppm	0.0000 ppm	0.0258 ppm
Concentration per Run 3	-0.0002 ppm	0.0145 ppm	0.0010 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0256 ppm
Recovery Percentage 1	-3.920 %	13.768 %	10.265 %	-0.502 %	2.186 %	0.025 %	25.883 %
Concentration RSD	23.3 %	14.2 %	217.7 %	386.7 %	4.5 %	1,950.8 %	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	-0.0001 ppm	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0422 ppm	0.0154 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0426 ppm	0.0105 ppm	0.0002 ppm
Concentration per Run 2	-0.0001 ppm	0.0003 ppm	0.0002 ppm	-0.0003 ppm	0.0420 ppm	0.0214 ppm	0.0002 ppm
Concentration per Run 3	-0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0421 ppm	0.0144 ppm	-0.0002 ppm
Recovery Percentage 1	-1.255 %	0.092 %	2.316 %	-0.691 %	84.489 %	0.617 %	0.545 %
Concentration RSD	87.7 %	2,551.1 %	14.5 %	243.6 %	0.7 %	35.9 %	350.1 %

	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	0.0080 ppm	0.0008 ppm	0.0006 ppm	0.0139 ppm	0.0006 ppm	0.0007 ppm	-0.0010 ppm
Concentration per Run 1	0.0086 ppm	0.0009 ppm	0.0006 ppm	0.0131 ppm	0.0010 ppm	0.0010 ppm	-0.0013 ppm
Concentration per Run 2	0.0075 ppm	0.0008 ppm	0.0009 ppm	0.0146 ppm	0.0008 ppm	0.0008 ppm	-0.0005 ppm
Concentration per Run 3	0.0079 ppm	0.0007 ppm	0.0003 ppm	0.0139 ppm	-0.0001 ppm	0.0004 ppm	-0.0010 ppm
Recovery Percentage 1	7.995 %	8.074 %	1.212 %	0.693 %	2.257 %	7.299 %	-1.920 %
Concentration RSD	7.0 %	15.3 %	46.3 %	5.3 %	101.7 %	39.5 %	45.5 %

	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	0.0008 ppm	0.0185 ppm	0.0013 ppm	0.0001 ppm	0.0008 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 1	0.0006 ppm	0.0186 ppm	0.0008 ppm	0.0001 ppm	0.0008 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 2	0.0007 ppm	0.0190 ppm	0.0012 ppm	0.0002 ppm	0.0008 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 3	0.0012 ppm	0.0180 ppm	0.0018 ppm	0.0001 ppm	0.0008 ppm	-0.0004 ppm	-0.0001 ppm
Recovery Percentage 1	8.380 %	3.707 %	2.579 %	1.350 %	8.081 %	-1.251 %	-0.491 %
Concentration RSD	36.7 %	2.9 %	37.7 %	17.1 %	2.3 %	163.9 %	153.4 %

	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	0.0015 ppm	103.4379 %	102.2074 %	96.3409 %	99.3040 %	100.7411 %	97.6560 %
Concentration per Run 1	0.0016 ppm	103.1897 %	101.8317 %	96.1899 %	99.6470 %	100.8050 %	97.8908 %
Concentration per Run 2	0.0014 ppm	103.0763 %	102.5849 %	96.5154 %	98.7418 %	101.1136 %	97.5690 %
Concentration per Run 3	0.0014 ppm	104.0476 %	102.2055 %	96.3173 %	99.5231 %	100.3047 %	97.5083 %
Recovery Percentage 1	30.082 %						
Concentration RSD	7.6 %	0.5 %	0.4 %	0.2 %	0.5 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010523-2D2 WG2010523
Analysis started at: 12/18/2024 6:16:23 PM
Rack 2
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	0.0479 ppm	2.0841 ppm	0.1157 ppm	0.9295 ppm	2.0005 ppm	0.0508 ppm	10.1468 ppm
Concentration per Run 1	0.0482 ppm	2.0874 ppm	0.1156 ppm	0.9297 ppm	1.9951 ppm	0.0511 ppm	10.1958 ppm
Concentration per Run 2	0.0480 ppm	2.0823 ppm	0.1144 ppm	0.9349 ppm	2.0040 ppm	0.0506 ppm	10.1259 ppm
Concentration per Run 3	0.0474 ppm	2.0827 ppm	0.1170 ppm	0.9238 ppm	2.0025 ppm	0.0507 ppm	10.1188 ppm
Concentration RSD	0.8 %	0.1 %	1.1 %	0.6 %	0.2 %	0.5 %	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	0.0509 ppm	0.4925 ppm	0.1953 ppm	0.2496 ppm	1.0281 ppm	10.7124 ppm	0.0007 ppm
Concentration per Run 1	0.0511 ppm	0.4933 ppm	0.1952 ppm	0.2504 ppm	1.0323 ppm	10.7145 ppm	0.0007 ppm
Concentration per Run 2	0.0510 ppm	0.4950 ppm	0.1964 ppm	0.2506 ppm	1.0248 ppm	10.6777 ppm	0.0012 ppm
Concentration per Run 3	0.0507 ppm	0.4894 ppm	0.1941 ppm	0.2477 ppm	1.0274 ppm	10.7450 ppm	0.0003 ppm
Concentration RSD	0.5 %	0.6 %	0.6 %	0.6 %	0.4 %	0.3 %	62.5 %

	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	9.9473 ppm	0.4862 ppm	1.0182 ppm	10.9438 ppm	0.4799 ppm	0.5306 ppm	0.4770 ppm
Concentration per Run 1	9.9443 ppm	0.4884 ppm	1.0124 ppm	10.8414 ppm	0.4766 ppm	0.5330 ppm	0.4734 ppm
Concentration per Run 2	10.0103 ppm	0.4849 ppm	1.0215 ppm	10.9042 ppm	0.4838 ppm	0.5316 ppm	0.4817 ppm
Concentration per Run 3	9.8874 ppm	0.4853 ppm	1.0207 ppm	11.0858 ppm	0.4794 ppm	0.5271 ppm	0.4760 ppm
Concentration RSD	0.6 %	0.4 %	0.5 %	1.2 %	0.8 %	0.6 %	0.9 %

	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	0.1143 ppm	1.1199 ppm	0.9826 ppm	1.0194 ppm	0.9960 ppm	0.1185 ppm	0.5064 ppm
Concentration per Run 1	0.1129 ppm	1.1203 ppm	0.9775 ppm	1.0185 ppm	0.9992 ppm	0.1175 ppm	0.5071 ppm
Concentration per Run 2	0.1146 ppm	1.1257 ppm	0.9870 ppm	1.0162 ppm	1.0009 ppm	0.1197 ppm	0.5092 ppm
Concentration per Run 3	0.1154 ppm	1.1135 ppm	0.9834 ppm	1.0236 ppm	0.9880 ppm	0.1184 ppm	0.5031 ppm
Concentration RSD	1.1 %	0.5 %	0.5 %	0.4 %	0.7 %	1.0 %	0.6 %

	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	0.4712 ppm	101.1083 %	101.1786 %	89.0551 %	95.3021 %	98.7606 %	93.9578 %
Concentration per Run 1	0.4690 ppm	101.0918 %	100.6422 %	88.7965 %	95.4644 %	98.8272 %	93.8260 %
Concentration per Run 2	0.4745 ppm	100.3814 %	101.6547 %	88.7686 %	94.6234 %	98.7710 %	93.8687 %
Concentration per Run 3	0.4702 ppm	101.8516 %	101.2390 %	89.6002 %	95.8184 %	98.6837 %	94.1789 %
Concentration RSD	0.6 %	0.7 %	0.5 %	0.5 %	0.6 %	0.1 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472530-14D2 WG2010523
Analysis started at: 12/18/2024 6:20:50 PM
Rack 2
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	-0.0001 ppm	89.5874 ppm	0.0281 ppm	0.1077 ppm	1.0732 ppm	0.0068 ppm	520.4960 ppm
Concentration per Run 1	-0.0002 ppm	89.0629 ppm	0.0284 ppm	0.1087 ppm	1.0713 ppm	0.0067 ppm	516.4172 ppm
Concentration per Run 2	-0.0001 ppm	89.9707 ppm	0.0278 ppm	0.1077 ppm	1.0697 ppm	0.0068 ppm	523.3998 ppm
Concentration per Run 3	-0.0001 ppm	89.7285 ppm	0.0281 ppm	0.1068 ppm	1.0787 ppm	0.0068 ppm	521.6709 ppm
Concentration RSD	56.5 %	0.5 %	1.1 %	0.9 %	0.5 %	0.7 %	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	-0.0024 ppm	0.0301 ppm	0.0897 ppm	0.1300 ppm	65.0597 ppm	8.0616 ppm	0.0863 ppm
Concentration per Run 1	-0.0025 ppm	0.0298 ppm	0.0903 ppm	0.1301 ppm	64.7713 ppm	8.0657 ppm	0.0863 ppm
Concentration per Run 2	-0.0023 ppm	0.0304 ppm	0.0894 ppm	0.1303 ppm	65.2374 ppm	8.0626 ppm	0.0861 ppm
Concentration per Run 3	-0.0024 ppm	0.0302 ppm	0.0895 ppm	0.1294 ppm	65.1703 ppm	8.0565 ppm	0.0864 ppm
Concentration RSD	2.9 %	1.1 %	0.6 %	0.4 %	0.4 %	0.1 %	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	56.0928 ppm	4.8626 ppm	0.0098 ppm	3.2256 ppm	0.0916 ppm	0.1207 ppm	0.0005 ppm
Concentration per Run 1	56.2290 ppm	4.8346 ppm	0.0097 ppm	3.2082 ppm	0.0921 ppm	0.1202 ppm	-0.0005 ppm
Concentration per Run 2	56.2974 ppm	4.8787 ppm	0.0100 ppm	3.2403 ppm	0.0921 ppm	0.1213 ppm	0.0007 ppm
Concentration per Run 3	55.7518 ppm	4.8746 ppm	0.0096 ppm	3.2283 ppm	0.0904 ppm	0.1205 ppm	0.0012 ppm
Concentration RSD	0.5 %	0.5 %	2.4 %	0.5 %	1.1 %	0.5 %	178.8 %

	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	0.0011 ppm	9.3099 ppm	0.0120 ppm	2.5969 ppm	7.0466 ppm	0.0005 ppm	0.1713 ppm
Concentration per Run 1	0.0022 ppm	9.4603 ppm	0.0130 ppm	2.5900 ppm	7.0897 ppm	0.0001 ppm	0.1719 ppm
Concentration per Run 2	0.0009 ppm	9.2602 ppm	0.0118 ppm	2.5936 ppm	7.0507 ppm	0.0008 ppm	0.1718 ppm
Concentration per Run 3	0.0000 ppm	9.2092 ppm	0.0113 ppm	2.6070 ppm	6.9996 ppm	0.0005 ppm	0.1701 ppm
Concentration RSD	103.1 %	1.4 %	7.5 %	0.3 %	0.6 %	68.5 %	0.6 %

	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	0.1975 ppm	94.0634 %	100.6881 %	65.5168 %	106.8968 %	119.0146 %	106.5236 %
Concentration per Run 1	0.1993 ppm	93.8457 %	101.8072 %	65.3877 %	106.7114 %	120.4813 %	106.7020 %
Concentration per Run 2	0.1981 ppm	93.8184 %	99.9148 %	65.5851 %	106.5428 %	117.5255 %	106.4848 %
Concentration per Run 3	0.1953 ppm	94.5261 %	100.3422 %	65.5777 %	107.4363 %	119.0370 %	106.3839 %
Concentration RSD	1.1 %	0.4 %	1.0 %	0.2 %	0.4 %	1.2 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472530-15D2 WG2010523
Analysis started at: 12/18/2024 6:25:17 PM
Rack 2
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	0.0003 ppm	73.6595 ppm	0.0268 ppm	0.1169 ppm	0.3815 ppm	0.0035 ppm	593.8976 ppm
Concentration per Run 1	0.0003 ppm	73.6920 ppm	0.0262 ppm	0.1182 ppm	0.3828 ppm	0.0035 ppm	593.3617 ppm
Concentration per Run 2	0.0001 ppm	73.7801 ppm	0.0287 ppm	0.1172 ppm	0.3808 ppm	0.0035 ppm	594.8088 ppm
Concentration per Run 3	0.0003 ppm	73.5064 ppm	0.0254 ppm	0.1153 ppm	0.3809 ppm	0.0035 ppm	593.5221 ppm
Concentration RSD	40.3 %	0.2 %	6.5 %	1.3 %	0.3 %	0.8 %	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	-0.0026 ppm	0.0237 ppm	0.1549 ppm	0.1333 ppm	62.4139 ppm	5.9793 ppm	0.0483 ppm
Concentration per Run 1	-0.0026 ppm	0.0238 ppm	0.1559 ppm	0.1336 ppm	62.4648 ppm	6.0270 ppm	0.0484 ppm
Concentration per Run 2	-0.0025 ppm	0.0237 ppm	0.1548 ppm	0.1331 ppm	62.3464 ppm	5.9143 ppm	0.0479 ppm
Concentration per Run 3	-0.0026 ppm	0.0234 ppm	0.1540 ppm	0.1332 ppm	62.4304 ppm	5.9965 ppm	0.0485 ppm
Concentration RSD	2.5 %	0.9 %	0.6 %	0.2 %	0.1 %	1.0 %	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	33.2735 ppm	1.6707 ppm	0.0100 ppm	1.1385 ppm	0.0641 ppm	0.2580 ppm	0.0085 ppm
Concentration per Run 1	33.6375 ppm	1.6707 ppm	0.0100 ppm	1.1390 ppm	0.0649 ppm	0.2608 ppm	0.0086 ppm
Concentration per Run 2	33.1417 ppm	1.6705 ppm	0.0104 ppm	1.1368 ppm	0.0638 ppm	0.2594 ppm	0.0087 ppm
Concentration per Run 3	33.0411 ppm	1.6710 ppm	0.0097 ppm	1.1396 ppm	0.0635 ppm	0.2537 ppm	0.0083 ppm
Concentration RSD	1.0 %	0.0 %	3.8 %	0.1 %	1.1 %	1.5 %	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	0.0022 ppm	7.4170 ppm	0.0626 ppm	1.8431 ppm	3.1993 ppm	0.0007 ppm	0.1170 ppm
Concentration per Run 1	0.0027 ppm	7.4567 ppm	0.0630 ppm	1.8480 ppm	3.2193 ppm	0.0012 ppm	0.1176 ppm
Concentration per Run 2	0.0023 ppm	7.4899 ppm	0.0624 ppm	1.8374 ppm	3.2001 ppm	0.0006 ppm	0.1170 ppm
Concentration per Run 3	0.0015 ppm	7.3045 ppm	0.0624 ppm	1.8438 ppm	3.1786 ppm	0.0004 ppm	0.1165 ppm
Concentration RSD	28.0 %	1.3 %	0.6 %	0.3 %	0.6 %	56.2 %	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	0.5223 ppm	91.9453 %	98.0987 %	69.7003 %	93.9106 %	104.5590 %	94.0263 %
Concentration per Run 1	0.5271 ppm	91.2714 %	98.3213 %	69.0566 %	93.5036 %	104.8565 %	93.8060 %
Concentration per Run 2	0.5202 ppm	92.0135 %	97.8688 %	69.7799 %	94.0637 %	104.0741 %	94.0356 %
Concentration per Run 3	0.5196 ppm	92.5508 %	98.1060 %	70.2645 %	94.1643 %	104.7463 %	94.2373 %
Concentration RSD	0.8 %	0.7 %	0.2 %	0.9 %	0.4 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472566-01D2 WG2010523
Analysis started at: 12/18/2024 6:29:44 PM
Rack 2
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	0.0023 ppm	5.6425 ppm	0.0165 ppm	0.0283 ppm	0.2084 ppm	0.0001 ppm	13.7651 ppm
Concentration per Run 1	0.0023 ppm	5.6368 ppm	0.0162 ppm	0.0286 ppm	0.2084 ppm	0.0001 ppm	13.8144 ppm
Concentration per Run 2	0.0022 ppm	5.6360 ppm	0.0169 ppm	0.0279 ppm	0.2104 ppm	0.0001 ppm	13.6863 ppm
Concentration per Run 3	0.0025 ppm	5.6547 ppm	0.0165 ppm	0.0285 ppm	0.2065 ppm	0.0001 ppm	13.7946 ppm
Concentration RSD	6.3 %	0.2 %	2.1 %	1.3 %	0.9 %	2.6 %	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	0.0007 ppm	0.0049 ppm	0.0224 ppm	0.7306 ppm	17.0001 ppm	6.9992 ppm	0.0059 ppm
Concentration per Run 1	0.0007 ppm	0.0052 ppm	0.0223 ppm	0.7271 ppm	17.0155 ppm	7.0223 ppm	0.0061 ppm
Concentration per Run 2	0.0007 ppm	0.0048 ppm	0.0222 ppm	0.7331 ppm	16.9296 ppm	6.9937 ppm	0.0059 ppm
Concentration per Run 3	0.0008 ppm	0.0049 ppm	0.0226 ppm	0.7315 ppm	17.0553 ppm	6.9816 ppm	0.0058 ppm
Concentration RSD	3.9 %	4.1 %	1.1 %	0.4 %	0.4 %	0.3 %	2.3 %

	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	5.1921 ppm	1.8910 ppm	0.0109 ppm	1.9047 ppm	0.0259 ppm	0.0293 ppm	0.0030 ppm
Concentration per Run 1	5.1928 ppm	1.8933 ppm	0.0108 ppm	1.9027 ppm	0.0259 ppm	0.0290 ppm	0.0034 ppm
Concentration per Run 2	5.1795 ppm	1.8862 ppm	0.0112 ppm	1.9037 ppm	0.0260 ppm	0.0298 ppm	0.0018 ppm
Concentration per Run 3	5.2041 ppm	1.8934 ppm	0.0107 ppm	1.9077 ppm	0.0258 ppm	0.0292 ppm	0.0039 ppm
Concentration RSD	0.2 %	0.2 %	2.7 %	0.1 %	0.5 %	1.4 %	37.1 %

	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	0.0105 ppm	1.5023 ppm	0.0432 ppm	0.0763 ppm	0.0865 ppm	-0.0036 ppm	0.0097 ppm
Concentration per Run 1	0.0113 ppm	1.5054 ppm	0.0426 ppm	0.0765 ppm	0.0870 ppm	-0.0041 ppm	0.0095 ppm
Concentration per Run 2	0.0104 ppm	1.5029 ppm	0.0430 ppm	0.0765 ppm	0.0859 ppm	-0.0036 ppm	0.0098 ppm
Concentration per Run 3	0.0096 ppm	1.4985 ppm	0.0439 ppm	0.0760 ppm	0.0866 ppm	-0.0030 ppm	0.0098 ppm
Concentration RSD	8.0 %	0.2 %	1.6 %	0.3 %	0.7 %	15.1 %	1.6 %

	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	0.5800 ppm	101.5328 %	99.9905 %	90.2061 %	97.3465 %	100.1577 %	94.2649 %
Concentration per Run 1	0.5815 ppm	101.0863 %	99.7226 %	89.8945 %	96.9665 %	99.7765 %	93.9821 %
Concentration per Run 2	0.5774 ppm	101.8023 %	100.7082 %	90.4716 %	98.1047 %	100.4733 %	94.6813 %
Concentration per Run 3	0.5812 ppm	101.7099 %	99.5408 %	90.2521 %	96.9683 %	100.2232 %	94.1314 %
Concentration RSD	0.4 %	0.4 %	0.6 %	0.3 %	0.7 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472648-02D2 WG2010523
Analysis started at: 12/18/2024 6:34:11 PM
Rack 2
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	0.0026 ppm	88.2130 ppm	0.0619 ppm	0.0278 ppm	0.8704 ppm	0.0036 ppm	61.8367 ppm
Concentration per Run 1	0.0026 ppm	86.8652 ppm	0.0619 ppm	0.0284 ppm	0.8638 ppm	0.0034 ppm	61.0528 ppm
Concentration per Run 2	0.0026 ppm	88.6392 ppm	0.0631 ppm	0.0277 ppm	0.8711 ppm	0.0038 ppm	62.1477 ppm
Concentration per Run 3	0.0027 ppm	89.1346 ppm	0.0608 ppm	0.0272 ppm	0.8763 ppm	0.0037 ppm	62.3095 ppm
Concentration RSD	1.8 %	1.4 %	1.9 %	2.3 %	0.7 %	5.2 %	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	0.0008 ppm	0.0851 ppm	0.2315 ppm	0.7032 ppm	227.7741 ppm	30.6360 ppm	0.1582 ppm
Concentration per Run 1	0.0008 ppm	0.0848 ppm	0.2333 ppm	0.7027 ppm	226.6404 ppm	30.3091 ppm	0.1558 ppm
Concentration per Run 2	0.0008 ppm	0.0855 ppm	0.2309 ppm	0.7060 ppm	227.5905 ppm	30.6841 ppm	0.1580 ppm
Concentration per Run 3	0.0009 ppm	0.0850 ppm	0.2304 ppm	0.7007 ppm	229.0912 ppm	30.9148 ppm	0.1608 ppm
Concentration RSD	8.4 %	0.4 %	0.6 %	0.4 %	0.5 %	1.0 %	1.6 %

	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	58.1890 ppm	3.2593 ppm	0.0198 ppm	3.5045 ppm	0.2511 ppm	2.1152 ppm	0.0180 ppm
Concentration per Run 1	58.6866 ppm	3.2505 ppm	0.0201 ppm	3.4092 ppm	0.2531 ppm	2.1157 ppm	0.0178 ppm
Concentration per Run 2	57.9578 ppm	3.2604 ppm	0.0194 ppm	3.5303 ppm	0.2504 ppm	2.1172 ppm	0.0190 ppm
Concentration per Run 3	57.9228 ppm	3.2669 ppm	0.0199 ppm	3.5739 ppm	0.2498 ppm	2.1126 ppm	0.0171 ppm
Concentration RSD	0.7 %	0.3 %	1.9 %	2.4 %	0.7 %	0.1 %	5.5 %

	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	0.0013 ppm	5.5462 ppm	0.1130 ppm	0.2501 ppm	3.7858 ppm	0.0014 ppm	0.2775 ppm
Concentration per Run 1	0.0039 ppm	5.6287 ppm	0.1140 ppm	0.2472 ppm	3.7958 ppm	0.0001 ppm	0.2785 ppm
Concentration per Run 2	0.0000 ppm	5.5190 ppm	0.1110 ppm	0.2516 ppm	3.7902 ppm	0.0022 ppm	0.2777 ppm
Concentration per Run 3	0.0001 ppm	5.4908 ppm	0.1139 ppm	0.2514 ppm	3.7716 ppm	0.0020 ppm	0.2762 ppm
Concentration RSD	164.4 %	1.3 %	1.5 %	1.0 %	0.3 %	83.4 %	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	0.6467 ppm	101.2226 %	104.8244 %	75.3457 %	111.9904 %	120.3556 %	109.0723 %
Concentration per Run 1	0.6539 ppm	100.7487 %	105.6375 %	75.3505 %	111.7753 %	121.3048 %	108.7905 %
Concentration per Run 2	0.6436 ppm	101.3649 %	104.5982 %	75.0324 %	112.2006 %	120.2211 %	109.2761 %
Concentration per Run 3	0.6427 ppm	101.5543 %	104.2375 %	75.6542 %	111.9953 %	119.5408 %	109.1502 %
Concentration RSD	1.0 %	0.4 %	0.7 %	0.4 %	0.2 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010523-3D2 WG2010523
Analysis started at: 12/18/2024 6:38:38 PM
Rack 2
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	0.0465 ppm	79.0911 ppm	0.1273 ppm	0.8867 ppm	2.6240 ppm	0.0493 ppm	61.5731 ppm
Concentration per Run 1	0.0466 ppm	79.1948 ppm	0.1282 ppm	0.8834 ppm	2.6351 ppm	0.0497 ppm	62.2806 ppm
Concentration per Run 2	0.0462 ppm	79.4669 ppm	0.1264 ppm	0.8870 ppm	2.6339 ppm	0.0492 ppm	61.3872 ppm
Concentration per Run 3	0.0468 ppm	78.6115 ppm	0.1274 ppm	0.8896 ppm	2.6029 ppm	0.0489 ppm	61.0514 ppm
Concentration RSD	0.7 %	0.6 %	0.7 %	0.3 %	0.7 %	0.8 %	1.0 %

	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	0.0442 ppm	0.5063 ppm	0.4079 ppm	0.8780 ppm	174.4015 ppm	35.8875 ppm	0.1388 ppm
Concentration per Run 1	0.0443 ppm	0.5034 ppm	0.4067 ppm	0.8771 ppm	176.2452 ppm	35.7185 ppm	0.1386 ppm
Concentration per Run 2	0.0441 ppm	0.5074 ppm	0.4070 ppm	0.8764 ppm	173.8591 ppm	36.1839 ppm	0.1395 ppm
Concentration per Run 3	0.0442 ppm	0.5082 ppm	0.4098 ppm	0.8805 ppm	173.1001 ppm	35.7600 ppm	0.1382 ppm
Concentration RSD	0.2 %	0.5 %	0.4 %	0.2 %	0.9 %	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	100.2002 ppm	2.9432 ppm	0.9020 ppm	13.7045 ppm	1.1035 ppm	2.1654 ppm	0.4321 ppm
Concentration per Run 1	99.9543 ppm	2.9711 ppm	0.8904 ppm	13.6201 ppm	1.1003 ppm	2.1709 ppm	0.4265 ppm
Concentration per Run 2	100.1724 ppm	2.9346 ppm	0.9033 ppm	13.8717 ppm	1.1032 ppm	2.1624 ppm	0.4374 ppm
Concentration per Run 3	100.4738 ppm	2.9237 ppm	0.9123 ppm	13.6216 ppm	1.1069 ppm	2.1629 ppm	0.4324 ppm
Concentration RSD	0.3 %	0.8 %	1.2 %	1.1 %	0.3 %	0.2 %	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	0.0862 ppm	7.1499 ppm	1.1043 ppm	1.2106 ppm	4.1436 ppm	0.1143 ppm	0.6570 ppm
Concentration per Run 1	0.0838 ppm	7.1369 ppm	1.0969 ppm	1.2145 ppm	4.1442 ppm	0.1133 ppm	0.6543 ppm
Concentration per Run 2	0.0878 ppm	7.1071 ppm	1.1063 ppm	1.2151 ppm	4.1387 ppm	0.1142 ppm	0.6582 ppm
Concentration per Run 3	0.0869 ppm	7.2057 ppm	1.1098 ppm	1.2022 ppm	4.1478 ppm	0.1153 ppm	0.6584 ppm
Concentration RSD	2.4 %	0.7 %	0.6 %	0.6 %	0.1 %	0.9 %	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	1.0102 ppm	100.1585 %	102.5767 %	73.7137 %	109.3150 %	117.1441 %	106.7124 %
Concentration per Run 1	1.0063 ppm	100.2762 %	101.4912 %	73.3787 %	109.7091 %	116.1972 %	106.5881 %
Concentration per Run 2	1.0110 ppm	100.3428 %	102.9512 %	73.8190 %	109.3658 %	117.8818 %	106.7266 %
Concentration per Run 3	1.0134 ppm	99.8566 %	103.2877 %	73.9435 %	108.8701 %	117.3534 %	106.8226 %
Concentration RSD	0.4 %	0.3 %	0.9 %	0.4 %	0.4 %	0.7 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010523-4D2 WG2010523
Analysis started at: 12/18/2024 6:43:06 PM
Rack 2
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	0.0039 ppm	75.8512 ppm	0.0416 ppm	0.0254 ppm	0.7416 ppm	0.0032 ppm	55.5810 ppm
Concentration per Run 1	0.0037 ppm	75.9380 ppm	0.0414 ppm	0.0248 ppm	0.7395 ppm	0.0031 ppm	55.6708 ppm
Concentration per Run 2	0.0041 ppm	76.1340 ppm	0.0421 ppm	0.0260 ppm	0.7431 ppm	0.0032 ppm	55.5598 ppm
Concentration per Run 3	0.0041 ppm	75.4815 ppm	0.0413 ppm	0.0253 ppm	0.7424 ppm	0.0031 ppm	55.5125 ppm
Concentration RSD	6.0 %	0.4 %	1.0 %	2.3 %	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	0.0008 ppm	0.0716 ppm	0.1906 ppm	0.6870 ppm	165.5982 ppm	23.2097 ppm	0.1372 ppm
Concentration per Run 1	0.0006 ppm	0.0718 ppm	0.1901 ppm	0.6876 ppm	165.0715 ppm	23.2342 ppm	0.1376 ppm
Concentration per Run 2	0.0010 ppm	0.0712 ppm	0.1908 ppm	0.6873 ppm	166.0686 ppm	23.2530 ppm	0.1379 ppm
Concentration per Run 3	0.0010 ppm	0.0718 ppm	0.1909 ppm	0.6860 ppm	165.6545 ppm	23.1420 ppm	0.1362 ppm
Concentration RSD	28.9 %	0.5 %	0.2 %	0.1 %	0.3 %	0.3 %	0.7 %

	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	44.2617 ppm	3.3481 ppm	0.0208 ppm	3.2747 ppm	0.2402 ppm	2.1758 ppm	0.0194 ppm
Concentration per Run 1	44.1644 ppm	3.3376 ppm	0.0209 ppm	3.2844 ppm	0.2393 ppm	2.1817 ppm	0.0201 ppm
Concentration per Run 2	44.3133 ppm	3.3605 ppm	0.0209 ppm	3.2942 ppm	0.2417 ppm	2.1734 ppm	0.0180 ppm
Concentration per Run 3	44.3075 ppm	3.3462 ppm	0.0207 ppm	3.2456 ppm	0.2397 ppm	2.1722 ppm	0.0201 ppm
Concentration RSD	0.2 %	0.3 %	0.7 %	0.8 %	0.5 %	0.2 %	6.3 %

	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	0.0015 ppm	4.6139 ppm	0.1192 ppm	0.2597 ppm	3.1059 ppm	0.0003 ppm	0.2020 ppm
Concentration per Run 1	0.0032 ppm	4.5893 ppm	0.1189 ppm	0.2593 ppm	3.0998 ppm	0.0010 ppm	0.2027 ppm
Concentration per Run 2	0.0010 ppm	4.5923 ppm	0.1184 ppm	0.2600 ppm	3.1127 ppm	-0.0007 ppm	0.2019 ppm
Concentration per Run 3	0.0002 ppm	4.6602 ppm	0.1203 ppm	0.2598 ppm	3.1054 ppm	0.0007 ppm	0.2014 ppm
Concentration RSD	108.3 %	0.9 %	0.8 %	0.1 %	0.2 %	266.7 %	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	0.5250 ppm	101.7584 %	104.7193 %	78.9950 %	110.6849 %	119.1055 %	109.1682 %
Concentration per Run 1	0.5242 ppm	101.9646 %	104.7859 %	78.8014 %	111.7228 %	118.7198 %	109.3617 %
Concentration per Run 2	0.5237 ppm	101.5896 %	104.6036 %	79.0678 %	110.1583 %	119.5891 %	109.0463 %
Concentration per Run 3	0.5271 ppm	101.7211 %	104.7684 %	79.1159 %	110.1735 %	119.0075 %	109.0965 %
Concentration RSD	0.4 %	0.2 %	0.1 %	0.2 %	0.8 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010523-5D2 WG2010523
Analysis started at: 12/18/2024 6:47:35 PM
Rack 2
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	0.0495 ppm	87.5138 ppm	0.1572 ppm	0.8871 ppm	2.7728 ppm	0.0521 ppm	70.1432 ppm
Concentration per Run 1	0.0493 ppm	86.6781 ppm	0.1580 ppm	0.8830 ppm	2.7311 ppm	0.0519 ppm	70.0951 ppm
Concentration per Run 2	0.0506 ppm	88.4082 ppm	0.1579 ppm	0.8940 ppm	2.7846 ppm	0.0523 ppm	70.6555 ppm
Concentration per Run 3	0.0485 ppm	87.4551 ppm	0.1557 ppm	0.8842 ppm	2.8027 ppm	0.0520 ppm	69.6790 ppm
Concentration RSD	2.2 %	1.0 %	0.8 %	0.7 %	1.3 %	0.4 %	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	0.0463 ppm	0.5273 ppm	0.4108 ppm	0.9320 ppm	226.0314 ppm	40.5585 ppm	0.1513 ppm
Concentration per Run 1	0.0463 ppm	0.5277 ppm	0.4117 ppm	0.9371 ppm	226.1276 ppm	40.0475 ppm	0.1485 ppm
Concentration per Run 2	0.0467 ppm	0.5295 ppm	0.4120 ppm	0.9335 ppm	225.2759 ppm	40.3597 ppm	0.1525 ppm
Concentration per Run 3	0.0460 ppm	0.5247 ppm	0.4087 ppm	0.9255 ppm	226.6907 ppm	41.2682 ppm	0.1528 ppm
Concentration RSD	0.8 %	0.5 %	0.4 %	0.6 %	0.3 %	1.6 %	1.6 %

	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	65.9839 ppm	3.6801 ppm	0.9436 ppm	14.3142 ppm	0.6894 ppm	2.6874 ppm	0.4732 ppm
Concentration per Run 1	66.3282 ppm	3.6866 ppm	0.9311 ppm	14.0546 ppm	0.6879 ppm	2.6874 ppm	0.4721 ppm
Concentration per Run 2	66.2195 ppm	3.6769 ppm	0.9461 ppm	14.5658 ppm	0.6916 ppm	2.7044 ppm	0.4744 ppm
Concentration per Run 3	65.4039 ppm	3.6770 ppm	0.9537 ppm	14.3222 ppm	0.6885 ppm	2.6705 ppm	0.4730 ppm
Concentration RSD	0.8 %	0.2 %	1.2 %	1.8 %	0.3 %	0.6 %	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	0.0957 ppm	6.4316 ppm	0.9976 ppm	1.2406 ppm	4.6641 ppm	**0.1242 ppm**	0.7490 ppm
Concentration per Run 1	0.0964 ppm	6.4269 ppm	0.9956 ppm	1.2269 ppm	4.6770 ppm	0.1244 ppm	0.7541 ppm
Concentration per Run 2	0.0947 ppm	6.5759 ppm	0.9982 ppm	1.2463 ppm	4.6858 ppm	0.1243 ppm	0.7460 ppm
Concentration per Run 3	0.0960 ppm	6.2919 ppm	0.9990 ppm	1.2486 ppm	4.6294 ppm	0.1240 ppm	0.7468 ppm
Concentration RSD	0.9 %	2.2 %	0.2 %	1.0 %	0.7 %	0.2 %	0.6 %

	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	1.0776 ppm	99.6370 %	102.8204 %	72.5995 %	109.4329 %	118.6454 %	107.5355 %
Concentration per Run 1	1.0798 ppm	99.4156 %	102.6947 %	72.3412 %	109.0144 %	118.6163 %	107.0775 %
Concentration per Run 2	1.0799 ppm	99.1915 %	102.7401 %	72.3256 %	108.7703 %	118.1352 %	107.4674 %
Concentration per Run 3	1.0732 ppm	100.3039 %	103.0263 %	73.1319 %	110.5139 %	119.1848 %	108.0615 %
Concentration RSD	0.4 %	0.6 %	0.2 %	0.6 %	0.9 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010523-6D10 WG2010523
Analysis started at: 12/18/2024 6:52:01 PM
Rack 2
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	0.0007 ppm	18.0711 ppm	0.0156 ppm	0.0066 ppm	0.1828 ppm	0.0008 ppm	13.4423 ppm
Concentration per Run 1	0.0006 ppm	18.0115 ppm	0.0158 ppm	0.0065 ppm	0.1828 ppm	0.0007 ppm	13.3191 ppm
Concentration per Run 2	0.0006 ppm	18.0921 ppm	0.0153 ppm	0.0069 ppm	0.1826 ppm	0.0008 ppm	13.5351 ppm
Concentration per Run 3	0.0009 ppm	18.1098 ppm	0.0158 ppm	0.0065 ppm	0.1831 ppm	0.0008 ppm	13.4726 ppm
Concentration RSD	25.4 %	0.3 %	1.7 %	3.4 %	0.2 %	1.0 %	0.8 %

	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	0.0002 ppm	0.0192 ppm	0.0503 ppm	0.1453 ppm	53.0591 ppm	6.1210 ppm	0.0316 ppm
Concentration per Run 1	0.0002 ppm	0.0192 ppm	0.0500 ppm	0.1456 ppm	52.7348 ppm	6.1605 ppm	0.0324 ppm
Concentration per Run 2	0.0003 ppm	0.0191 ppm	0.0501 ppm	0.1448 ppm	53.3618 ppm	6.0925 ppm	0.0311 ppm
Concentration per Run 3	0.0002 ppm	0.0192 ppm	0.0508 ppm	0.1456 ppm	53.0807 ppm	6.1099 ppm	0.0312 ppm
Concentration RSD	27.0 %	0.2 %	0.9 %	0.3 %	0.6 %	0.6 %	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	12.8699 ppm	0.7187 ppm	0.0101 ppm	0.6934 ppm	0.0570 ppm	0.4110 ppm	0.0046 ppm
Concentration per Run 1	12.9383 ppm	0.7139 ppm	0.0102 ppm	0.6951 ppm	0.0569 ppm	0.4110 ppm	0.0048 ppm
Concentration per Run 2	12.8065 ppm	0.7224 ppm	0.0099 ppm	0.6917 ppm	0.0569 ppm	0.4093 ppm	0.0056 ppm
Concentration per Run 3	12.8650 ppm	0.7198 ppm	0.0102 ppm	0.6935 ppm	0.0572 ppm	0.4126 ppm	0.0033 ppm
Concentration RSD	0.5 %	0.6 %	1.6 %	0.2 %	0.3 %	0.4 %	25.8 %

	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	0.0001 ppm	1.6097 ppm	0.0263 ppm	0.0519 ppm	0.8285 ppm	0.0008 ppm	0.0585 ppm
Concentration per Run 1	-0.0007 ppm	1.6319 ppm	0.0262 ppm	0.0518 ppm	0.8288 ppm	0.0008 ppm	0.0587 ppm
Concentration per Run 2	0.0020 ppm	1.5932 ppm	0.0269 ppm	0.0520 ppm	0.8224 ppm	0.0005 ppm	0.0582 ppm
Concentration per Run 3	-0.0011 ppm	1.6039 ppm	0.0259 ppm	0.0519 ppm	0.8342 ppm	0.0012 ppm	0.0587 ppm
Concentration RSD	1,717.9 %	1.2 %	2.0 %	0.2 %	0.7 %	42.8 %	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	0.1442 ppm	101.3113 %	101.4826 %	88.9644 %	99.5507 %	102.9294 %	98.5488 %
Concentration per Run 1	0.1446 ppm	100.7946 %	102.6059 %	88.6519 %	99.7424 %	103.5314 %	98.0889 %
Concentration per Run 2	0.1440 ppm	101.7411 %	100.4894 %	89.4052 %	99.9737 %	102.1123 %	98.9741 %
Concentration per Run 3	0.1439 ppm	101.3982 %	101.3524 %	88.8360 %	98.9358 %	103.1444 %	98.5834 %
Concentration RSD	0.3 %	0.5 %	1.0 %	0.4 %	0.5 %	0.7 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCV
Analysis started at: 12/18/2024 6:56:28 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	0.4739 ppm	0.4681 ppm	0.4698 ppm	0.4709 ppm	0.4907 ppm	0.4995 ppm	0.4794 ppm
Concentration per Run 1	0.4762 ppm	0.4699 ppm	0.4680 ppm	0.4731 ppm	0.4902 ppm	0.5002 ppm	0.4824 ppm
Concentration per Run 2	0.4747 ppm	0.4686 ppm	0.4717 ppm	0.4704 ppm	0.4915 ppm	0.4992 ppm	0.4795 ppm
Concentration per Run 3	0.4708 ppm	0.4657 ppm	0.4697 ppm	0.4693 ppm	0.4905 ppm	0.4992 ppm	0.4761 ppm
Recovery Percentage 1	94.780 %	93.612 %	93.958 %	94.185 %	98.150 %	99.909 %	95.872 %
Concentration RSD	0.6 %	0.5 %	0.4 %	0.4 %	0.1 %	0.1 %	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	0.4795 ppm	0.4992 ppm	0.4802 ppm	0.4826 ppm	0.5047 ppm	5.1412 ppm	0.5024 ppm
Concentration per Run 1	0.4802 ppm	0.5011 ppm	0.4821 ppm	0.4860 ppm	0.5048 ppm	5.1845 ppm	0.5053 ppm
Concentration per Run 2	0.4829 ppm	0.5012 ppm	0.4816 ppm	0.4813 ppm	0.5027 ppm	5.1254 ppm	0.4982 ppm
Concentration per Run 3	0.4754 ppm	0.4952 ppm	0.4768 ppm	0.4805 ppm	0.5066 ppm	5.1137 ppm	0.5038 ppm
Recovery Percentage 1	95.903 %	99.834 %	96.033 %	96.517 %	100.937 %	102.824 %	100.487 %
Concentration RSD	0.8 %	0.7 %	0.6 %	0.6 %	0.4 %	0.7 %	0.7 %

	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	0.4845 ppm	0.4764 ppm	0.4863 ppm	10.1278 ppm	0.4950 ppm	0.4837 ppm	0.4836 ppm
Concentration per Run 1	0.4865 ppm	0.4764 ppm	0.4842 ppm	10.0884 ppm	0.4967 ppm	0.4835 ppm	0.4847 ppm
Concentration per Run 2	0.4876 ppm	0.4769 ppm	0.4876 ppm	10.2097 ppm	0.4970 ppm	0.4853 ppm	0.4846 ppm
Concentration per Run 3	0.4794 ppm	0.4758 ppm	0.4869 ppm	10.0853 ppm	0.4912 ppm	0.4822 ppm	0.4815 ppm
Recovery Percentage 1	96.898 %	95.271 %	97.251 %	101.278 %	98.996 %	96.731 %	96.717 %
Concentration RSD	0.9 %	0.1 %	0.4 %	0.7 %	0.7 %	0.3 %	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	0.4806 ppm	5.3794 ppm	0.5008 ppm	0.5206 ppm	0.4827 ppm	0.4799 ppm	0.4866 ppm
Concentration per Run 1	0.4797 ppm	5.4001 ppm	0.5051 ppm	0.5223 ppm	0.4843 ppm	0.4794 ppm	0.4884 ppm
Concentration per Run 2	0.4847 ppm	5.3831 ppm	0.5008 ppm	0.5203 ppm	0.4846 ppm	0.4796 ppm	0.4881 ppm
Concentration per Run 3	0.4774 ppm	5.3549 ppm	0.4964 ppm	0.5193 ppm	0.4791 ppm	0.4807 ppm	0.4831 ppm
Recovery Percentage 1	96.121 %	102.465 %	100.153 %	104.127 %	96.533 %	95.981 %	97.312 %
Concentration RSD	0.8 %	0.4 %	0.9 %	0.3 %	0.6 %	0.1 %	0.6 %

	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	0.4825 ppm	101.2256 %	100.9222 %	93.1266 %	96.0079 %	98.3666 %	95.6727 %
Concentration per Run 1	0.4851 ppm	101.0221 %	100.7176 %	92.7365 %	96.4286 %	98.4638 %	95.5371 %
Concentration per Run 2	0.4856 ppm	100.7945 %	100.8978 %	93.3665 %	95.5547 %	98.0104 %	95.6730 %
Concentration per Run 3	0.4768 ppm	101.8603 %	101.1513 %	93.2769 %	96.0404 %	98.6257 %	95.8080 %
Recovery Percentage 1	96.501 %						
Concentration RSD	1.0 %	0.6 %	0.2 %	0.4 %	0.5 %	0.3 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCB
Analysis started at: 12/18/2024 7:00:55 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	-0.0050 ppm	0.0008 ppm	-0.0006 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 1	-0.0004 ppm	-0.0029 ppm	0.0010 ppm	-0.0005 ppm	0.0000 ppm	0.0001 ppm	0.0008 ppm
Concentration per Run 2	0.0000 ppm	-0.0056 ppm	0.0009 ppm	-0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 3	-0.0003 ppm	-0.0064 ppm	0.0006 ppm	-0.0011 ppm	0.0000 ppm	0.0000 ppm	-0.0020 ppm
Recovery Percentage 1	-4.751 %	-4.968 %	16.725 %	-2.050 %	0.008 %	0.995 %	-0.185 %
Concentration RSD	97.6 %	37.1 %	27.7 %	72.3 %	4,277.9 %	25.9 %	835.5 %

	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	0.0002 ppm	-0.0002 ppm	-0.0002 ppm	0.0032 ppm	0.0138 ppm	0.0003 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0001 ppm	0.0029 ppm	0.0176 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	-0.0003 ppm	-0.0004 ppm	0.0039 ppm	0.0179 ppm	0.0000 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0003 ppm	0.0026 ppm	0.0061 ppm	0.0002 ppm
Recovery Percentage 1	1.091 %	1.903 %	-1.501 %	-2.038 %	6.331 %	0.553 %	2.717 %
Concentration RSD	154.8 %	58.6 %	83.4 %	114.5 %	21.1 %	48.6 %	99.0 %

	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	0.0009 ppm	0.0001 ppm	0.0036 ppm	0.0003 ppm	0.0004 ppm	0.0004 ppm	-0.0005 ppm
Concentration per Run 1	0.0015 ppm	0.0000 ppm	0.0037 ppm	0.0015 ppm	0.0007 ppm	0.0007 ppm	-0.0007 ppm
Concentration per Run 2	0.0006 ppm	0.0001 ppm	0.0036 ppm	-0.0005 ppm	-0.0002 ppm	0.0008 ppm	-0.0011 ppm
Concentration per Run 3	0.0005 ppm	0.0001 ppm	0.0035 ppm	-0.0002 ppm	0.0005 ppm	-0.0004 ppm	0.0003 ppm
Recovery Percentage 1	0.861 %	0.879 %	7.142 %	0.014 %	1.440 %	3.729 %	-1.019 %
Concentration RSD	67.0 %	65.7 %	3.0 %	373.5 %	128.6 %	168.5 %	142.8 %

	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	0.0010 ppm	0.0041 ppm	0.0010 ppm	0.0001 ppm	0.0003 ppm	0.0006 ppm	-0.0001 ppm
Concentration per Run 1	0.0012 ppm	0.0048 ppm	0.0012 ppm	0.0001 ppm	0.0005 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0036 ppm	0.0012 ppm	0.0001 ppm	0.0002 ppm	0.0010 ppm	-0.0001 ppm
Concentration per Run 3	0.0017 ppm	0.0039 ppm	0.0007 ppm	0.0001 ppm	0.0003 ppm	0.0006 ppm	-0.0001 ppm
Recovery Percentage 1	9.661 %	0.815 %	2.080 %	0.739 %	3.319 %	3.220 %	-1.136 %
Concentration RSD	88.8 %	15.2 %	31.4 %	1.4 %	53.7 %	50.8 %	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	0.0001 ppm	103.4001 %	99.9341 %	95.3177 %	103.3703 %	99.4849 %	97.6000 %
Concentration per Run 1	0.0001 ppm	98.3490 %	99.0730 %	94.7122 %	98.0141 %	99.0664 %	97.5051 %
Concentration per Run 2	0.0001 ppm	100.7918 %	99.9284 %	95.3523 %	99.5057 %	99.2671 %	97.8701 %
Concentration per Run 3	0.0002 ppm	111.0596 %	100.8009 %	95.8885 %	112.5912 %	100.1213 %	97.4247 %
Recovery Percentage 1	2.704 %						
Concentration RSD	33.4 %	6.5 %	0.9 %	0.6 %	7.8 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472581-01D2 WG2010523
Analysis started at: 12/18/2024 7:09:20 PM
Rack 2
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	0.0012 ppm	141.7384 ppm	0.0760 ppm	0.0080 ppm	0.6481 ppm	0.0045 ppm	10.0034 ppm
Concentration per Run 1	0.0010 ppm	141.7623 ppm	0.0765 ppm	0.0082 ppm	0.6469 ppm	0.0045 ppm	9.9711 ppm
Concentration per Run 2	0.0010 ppm	141.6495 ppm	0.0761 ppm	0.0080 ppm	0.6504 ppm	0.0045 ppm	10.0430 ppm
Concentration per Run 3	0.0015 ppm	141.8034 ppm	0.0754 ppm	0.0077 ppm	0.6469 ppm	0.0045 ppm	9.9962 ppm
Concentration RSD	22.9 %	0.1 %	0.8 %	3.5 %	0.3 %	0.1 %	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	0.0003 ppm	0.0435 ppm	0.1468 ppm	0.1533 ppm	191.3328 ppm	7.3947 ppm	0.1060 ppm
Concentration per Run 1	0.0002 ppm	0.0431 ppm	0.1463 ppm	0.1525 ppm	190.1637 ppm	7.4072 ppm	0.1069 ppm
Concentration per Run 2	0.0002 ppm	0.0436 ppm	0.1470 ppm	0.1537 ppm	192.2781 ppm	7.3739 ppm	0.1051 ppm
Concentration per Run 3	0.0004 ppm	0.0439 ppm	0.1470 ppm	0.1537 ppm	191.5566 ppm	7.4030 ppm	0.1059 ppm
Concentration RSD	43.4 %	0.9 %	0.3 %	0.5 %	0.6 %	0.2 %	0.8 %

	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	21.6192 ppm	0.8667 ppm	0.0297 ppm	0.4182 ppm	0.1317 ppm	0.0993 ppm	0.0026 ppm
Concentration per Run 1	21.5173 ppm	0.8655 ppm	0.0292 ppm	0.4173 ppm	0.1313 ppm	0.1000 ppm	0.0038 ppm
Concentration per Run 2	21.6427 ppm	0.8691 ppm	0.0302 ppm	0.4185 ppm	0.1308 ppm	0.0983 ppm	0.0011 ppm
Concentration per Run 3	21.6977 ppm	0.8654 ppm	0.0297 ppm	0.4189 ppm	0.1331 ppm	0.0997 ppm	0.0031 ppm
Concentration RSD	0.4 %	0.2 %	1.7 %	0.2 %	0.9 %	0.9 %	53.6 %

	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	0.0010 ppm	4.3631 ppm	0.0063 ppm	0.0606 ppm	0.4664 ppm	0.0035 ppm	0.2261 ppm
Concentration per Run 1	-0.0006 ppm	4.3361 ppm	0.0062 ppm	0.0607 ppm	0.4626 ppm	0.0040 ppm	0.2257 ppm
Concentration per Run 2	0.0010 ppm	4.3304 ppm	0.0070 ppm	0.0607 ppm	0.4657 ppm	0.0036 ppm	0.2270 ppm
Concentration per Run 3	0.0026 ppm	4.4227 ppm	0.0057 ppm	0.0606 ppm	0.4709 ppm	0.0031 ppm	0.2254 ppm
Concentration RSD	166.4 %	1.2 %	10.3 %	0.1 %	0.9 %	13.4 %	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	0.4130 ppm	107.6468 %	107.4517 %	88.7216 %	114.8779 %	120.4357 %	114.0842 %
Concentration per Run 1	0.4100 ppm	108.3250 %	107.6447 %	88.4732 %	115.6708 %	120.5517 %	113.8939 %
Concentration per Run 2	0.4139 ppm	107.4828 %	107.2350 %	88.8345 %	114.7951 %	120.3683 %	114.1780 %
Concentration per Run 3	0.4149 ppm	107.1325 %	107.4755 %	88.8569 %	114.1679 %	120.3872 %	114.1806 %
Concentration RSD	0.6 %	0.6 %	0.2 %	0.2 %	0.7 %	0.1 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472648-04D2 WG2010523
Analysis started at: 12/18/2024 7:14:08 PM
Rack 2
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	0.0025 ppm	86.7907 ppm	0.0346 ppm	0.0232 ppm	0.7496 ppm	0.0037 ppm	58.1204 ppm
Concentration per Run 1	0.0021 ppm	87.1575 ppm	0.0337 ppm	0.0237 ppm	0.7537 ppm	0.0037 ppm	57.9741 ppm
Concentration per Run 2	0.0026 ppm	86.3159 ppm	0.0347 ppm	0.0227 ppm	0.7458 ppm	0.0037 ppm	58.2363 ppm
Concentration per Run 3	0.0026 ppm	86.8988 ppm	0.0354 ppm	0.0232 ppm	0.7494 ppm	0.0038 ppm	58.1509 ppm
Concentration RSD	11.5 %	0.5 %	2.6 %	2.0 %	0.5 %	2.0 %	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	0.0007 ppm	0.0744 ppm	0.1923 ppm	0.6350 ppm	170.3291 ppm	23.4938 ppm	0.1567 ppm
Concentration per Run 1	0.0006 ppm	0.0752 ppm	0.1932 ppm	0.6366 ppm	170.4038 ppm	23.7302 ppm	0.1589 ppm
Concentration per Run 2	0.0008 ppm	0.0737 ppm	0.1925 ppm	0.6345 ppm	171.1490 ppm	23.4368 ppm	0.1555 ppm
Concentration per Run 3	0.0007 ppm	0.0744 ppm	0.1913 ppm	0.6338 ppm	169.4345 ppm	23.3145 ppm	0.1558 ppm
Concentration RSD	18.1 %	1.0 %	0.5 %	0.2 %	0.5 %	0.9 %	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	48.5319 ppm	2.7582 ppm	0.0144 ppm	3.1428 ppm	0.2173 ppm	1.8969 ppm	0.0123 ppm
Concentration per Run 1	48.8745 ppm	2.7581 ppm	0.0145 ppm	3.1589 ppm	0.2195 ppm	1.9065 ppm	0.0108 ppm
Concentration per Run 2	48.4917 ppm	2.7754 ppm	0.0143 ppm	3.1105 ppm	0.2175 ppm	1.8888 ppm	0.0151 ppm
Concentration per Run 3	48.2294 ppm	2.7413 ppm	0.0146 ppm	3.1591 ppm	0.2150 ppm	1.8956 ppm	0.0111 ppm
Concentration RSD	0.7 %	0.6 %	1.0 %	0.9 %	1.0 %	0.5 %	19.6 %

	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	-0.0001 ppm	4.3142 ppm	0.1161 ppm	0.2732 ppm	3.0620 ppm	0.0012 ppm	0.2222 ppm
Concentration per Run 1	-0.0002 ppm	4.3362 ppm	0.1171 ppm	0.2744 ppm	3.0792 ppm	0.0008 ppm	0.2240 ppm
Concentration per Run 2	0.0001 ppm	4.2565 ppm	0.1168 ppm	0.2722 ppm	3.0529 ppm	0.0004 ppm	0.2211 ppm
Concentration per Run 3	-0.0002 ppm	4.3501 ppm	0.1144 ppm	0.2732 ppm	3.0538 ppm	0.0025 ppm	0.2214 ppm
Concentration RSD	147.3 %	1.2 %	1.3 %	0.4 %	0.5 %	91.6 %	0.7 %

	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	0.5677 ppm	101.4416 %	104.7082 %	78.7302 %	114.3643 %	122.5192 %	112.6309 %
Concentration per Run 1	0.5726 ppm	100.8116 %	104.6914 %	78.4690 %	114.0546 %	122.6482 %	112.3463 %
Concentration per Run 2	0.5696 ppm	101.7667 %	104.1342 %	78.9399 %	114.7508 %	122.2824 %	112.7751 %
Concentration per Run 3	0.5609 ppm	101.7463 %	105.2990 %	78.7818 %	114.2875 %	122.6272 %	112.7712 %
Concentration RSD	1.1 %	0.5 %	0.6 %	0.3 %	0.3 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472648-06D2 WG2010523
Analysis started at: 12/18/2024 7:18:35 PM
Rack 2
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	0.0027 ppm	81.2448 ppm	0.0402 ppm	0.0636 ppm	0.5747 ppm	0.0035 ppm	128.3413 ppm
Concentration per Run 1	0.0028 ppm	85.0705 ppm	0.0393 ppm	0.0646 ppm	0.6011 ppm	0.0036 ppm	133.4074 ppm
Concentration per Run 2	0.0027 ppm	84.2565 ppm	0.0419 ppm	0.0617 ppm	0.5971 ppm	0.0036 ppm	133.7240 ppm
Concentration per Run 3	0.0025 ppm	74.4073 ppm	0.0395 ppm	0.0644 ppm	0.5259 ppm	0.0032 ppm	117.8924 ppm
Concentration RSD	5.1 %	7.3 %	3.6 %	2.5 %	7.4 %	7.7 %	7.1 %

	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	0.0629 ppm	0.1644 ppm	0.5456 ppm	150.6250 ppm	14.7815 ppm	0.1402 ppm
Concentration per Run 1	0.0003 ppm	0.0627 ppm	0.1647 ppm	0.5493 ppm	156.9758 ppm	15.6293 ppm	0.1487 ppm
Concentration per Run 2	0.0004 ppm	0.0637 ppm	0.1651 ppm	0.5451 ppm	156.9304 ppm	15.1943 ppm	0.1442 ppm
Concentration per Run 3	0.0003 ppm	0.0622 ppm	0.1633 ppm	0.5424 ppm	137.9690 ppm	13.5209 ppm	0.1276 ppm
Concentration RSD	17.2 %	1.2 %	0.6 %	0.6 %	7.3 %	7.5 %	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	44.3981 ppm	2.9706 ppm	0.0104 ppm	2.6625 ppm	0.2079 ppm	1.5701 ppm	0.0132 ppm
Concentration per Run 1	44.3968 ppm	3.0967 ppm	0.0106 ppm	2.8164 ppm	0.2079 ppm	1.5663 ppm	0.0146 ppm
Concentration per Run 2	44.6439 ppm	3.0889 ppm	0.0100 ppm	2.7347 ppm	0.2092 ppm	1.5646 ppm	0.0124 ppm
Concentration per Run 3	44.1538 ppm	2.7263 ppm	0.0107 ppm	2.4363 ppm	0.2065 ppm	1.5794 ppm	0.0127 ppm
Concentration RSD	0.6 %	7.1 %	3.8 %	7.5 %	0.7 %	0.5 %	9.1 %

	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	11.3765 ppm	0.8038 ppm	0.5127 ppm	2.4834 ppm	0.0006 ppm	0.1942 ppm
Concentration per Run 1	0.0007 ppm	11.5448 ppm	0.8034 ppm	0.5360 ppm	2.4854 ppm	-0.0003 ppm	0.1935 ppm
Concentration per Run 2	-0.0028 ppm	11.3621 ppm	0.8083 ppm	0.5326 ppm	2.4946 ppm	0.0008 ppm	0.1951 ppm
Concentration per Run 3	0.0012 ppm	11.2227 ppm	0.7999 ppm	0.4694 ppm	2.4702 ppm	0.0014 ppm	0.1940 ppm
Concentration RSD	689.9 %	1.4 %	0.5 %	7.3 %	0.5 %	139.6 %	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	0.5264 ppm	99.7494 %	107.0299 %	76.2031 %	109.6405 %	118.4738 %	106.7805 %
Concentration per Run 1	0.5249 ppm	99.7705 %	102.7172 %	76.4758 %	110.0292 %	117.5499 %	107.2449 %
Concentration per Run 2	0.5313 ppm	99.4297 %	102.5044 %	76.6559 %	108.9274 %	117.1925 %	106.9726 %
Concentration per Run 3	0.5229 ppm	100.0481 %	115.8681 %	75.4775 %	109.9650 %	120.6788 %	106.1238 %
Concentration RSD	0.8 %	0.3 %	7.2 %	0.8 %	0.6 %	1.6 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472649-02D2 WG2010523
Analysis started at: 12/18/2024 7:23:02 PM
Rack 2
Vial 45
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	0.0021 ppm	53.1016 ppm	0.0372 ppm	0.0327 ppm	0.5658 ppm	0.0029 ppm	119.7535 ppm
Concentration per Run 1	0.0021 ppm	53.2216 ppm	0.0378 ppm	0.0319 ppm	0.5667 ppm	0.0029 ppm	119.3958 ppm
Concentration per Run 2	0.0021 ppm	52.9133 ppm	0.0370 ppm	0.0337 ppm	0.5664 ppm	0.0029 ppm	118.9719 ppm
Concentration per Run 3	0.0021 ppm	53.1699 ppm	0.0369 ppm	0.0325 ppm	0.5644 ppm	0.0029 ppm	120.8928 ppm
Concentration RSD	2.0 %	0.3 %	1.3 %	2.9 %	0.2 %	0.2 %	0.8 %

	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	0.0007 ppm	0.0595 ppm	0.1429 ppm	0.8157 ppm	126.9526 ppm	9.4013 ppm	0.1110 ppm
Concentration per Run 1	0.0007 ppm	0.0580 ppm	0.1395 ppm	0.7985 ppm	126.9423 ppm	9.4673 ppm	0.1131 ppm
Concentration per Run 2	0.0007 ppm	0.0612 ppm	0.1464 ppm	0.8430 ppm	125.8317 ppm	9.3663 ppm	0.1110 ppm
Concentration per Run 3	0.0008 ppm	0.0593 ppm	0.1430 ppm	0.8058 ppm	128.0839 ppm	9.3704 ppm	0.1089 ppm
Concentration RSD	10.1 %	2.7 %	2.4 %	2.9 %	0.9 %	0.6 %	1.9 %

	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	28.0843 ppm	2.1392 ppm	0.0105 ppm	4.0973 ppm	0.2183 ppm	1.7024 ppm	0.0226 ppm
Concentration per Run 1	27.4667 ppm	2.1347 ppm	0.0099 ppm	4.1167 ppm	0.2130 ppm	1.7032 ppm	0.0245 ppm
Concentration per Run 2	28.8633 ppm	2.1256 ppm	0.0109 ppm	4.1031 ppm	0.2258 ppm	1.7028 ppm	0.0208 ppm
Concentration per Run 3	27.9230 ppm	2.1574 ppm	0.0108 ppm	4.0722 ppm	0.2162 ppm	1.7012 ppm	0.0225 ppm
Concentration RSD	2.5 %	0.8 %	5.0 %	0.6 %	3.0 %	0.1 %	8.2 %

	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	0.0030 ppm	8.4102 ppm	0.1561 ppm	0.8273 ppm	2.0572 ppm	-0.0002 ppm	0.1533 ppm
Concentration per Run 1	0.0033 ppm	8.2500 ppm	0.1530 ppm	0.8278 ppm	2.0185 ppm	-0.0015 ppm	0.1502 ppm
Concentration per Run 2	0.0030 ppm	8.6580 ppm	0.1602 ppm	0.8276 ppm	2.1139 ppm	0.0000 ppm	0.1572 ppm
Concentration per Run 3	0.0025 ppm	8.3226 ppm	0.1552 ppm	0.8264 ppm	2.0393 ppm	0.0009 ppm	0.1525 ppm
Concentration RSD	13.8 %	2.6 %	2.4 %	0.1 %	2.4 %	655.1 %	2.3 %

	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	0.5589 ppm	98.0969 %	102.4204 %	78.8433 %	107.5408 %	117.4080 %	107.4885 %
Concentration per Run 1	0.5475 ppm	99.8606 %	102.7500 %	78.7439 %	109.4634 %	118.1729 %	107.5373 %
Concentration per Run 2	0.5747 ppm	95.7099 %	103.1354 %	78.5197 %	103.9932 %	117.8538 %	107.0515 %
Concentration per Run 3	0.5544 ppm	98.7202 %	101.3760 %	79.2664 %	109.1658 %	116.1973 %	107.8768 %
Concentration RSD	2.5 %	2.2 %	0.9 %	0.5 %	2.9 %	0.9 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472649-04D2 WG2010523
Analysis started at: 12/18/2024 7:27:29 PM
Rack 2
Vial 46
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	69.7826 ppm	0.0355 ppm	0.0217 ppm	0.3875 ppm	0.0029 ppm	36.4890 ppm
Concentration per Run 1	0.0017 ppm	69.8644 ppm	0.0357 ppm	0.0224 ppm	0.3889 ppm	0.0029 ppm	36.6232 ppm
Concentration per Run 2	0.0013 ppm	69.5119 ppm	0.0348 ppm	0.0219 ppm	0.3865 ppm	0.0029 ppm	36.6416 ppm
Concentration per Run 3	0.0018 ppm	69.9715 ppm	0.0358 ppm	0.0207 ppm	0.3871 ppm	0.0028 ppm	36.2022 ppm
Concentration RSD	18.0 %	0.3 %	1.5 %	3.9 %	0.3 %	1.6 %	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	0.0006 ppm	0.0597 ppm	0.1384 ppm	0.3116 ppm	147.7170 ppm	6.1930 ppm	0.1312 ppm
Concentration per Run 1	0.0006 ppm	0.0603 ppm	0.1388 ppm	0.3127 ppm	148.7121 ppm	6.2778 ppm	0.1330 ppm
Concentration per Run 2	0.0005 ppm	0.0593 ppm	0.1383 ppm	0.3096 ppm	147.9729 ppm	6.0871 ppm	0.1287 ppm
Concentration per Run 3	0.0007 ppm	0.0596 ppm	0.1381 ppm	0.3124 ppm	146.4661 ppm	6.2142 ppm	0.1320 ppm
Concentration RSD	20.4 %	0.9 %	0.3 %	0.6 %	0.8 %	1.6 %	1.7 %

	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	37.2096 ppm	2.2667 ppm	0.0078 ppm	1.7131 ppm	0.2828 ppm	1.2053 ppm	0.0126 ppm
Concentration per Run 1	37.3342 ppm	2.2720 ppm	0.0081 ppm	1.7179 ppm	0.2844 ppm	1.2079 ppm	0.0116 ppm
Concentration per Run 2	37.2204 ppm	2.2773 ppm	0.0077 ppm	1.6826 ppm	0.2819 ppm	1.2062 ppm	0.0122 ppm
Concentration per Run 3	37.0741 ppm	2.2507 ppm	0.0076 ppm	1.7388 ppm	0.2821 ppm	1.2019 ppm	0.0139 ppm
Concentration RSD	0.4 %	0.6 %	3.3 %	1.7 %	0.5 %	0.3 %	9.6 %

	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	0.0012 ppm	5.0109 ppm	0.0540 ppm	0.1662 ppm	1.1816 ppm	-0.0002 ppm	0.1448 ppm
Concentration per Run 1	0.0013 ppm	5.0608 ppm	0.0555 ppm	0.1672 ppm	1.1922 ppm	-0.0002 ppm	0.1459 ppm
Concentration per Run 2	0.0006 ppm	4.9696 ppm	0.0527 ppm	0.1654 ppm	1.1757 ppm	0.0000 ppm	0.1451 ppm
Concentration per Run 3	0.0017 ppm	5.0023 ppm	0.0538 ppm	0.1660 ppm	1.1769 ppm	-0.0005 ppm	0.1434 ppm
Concentration RSD	45.9 %	0.9 %	2.6 %	0.5 %	0.8 %	111.0 %	0.9 %

	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	0.4571 ppm	101.2574 %	103.7799 %	83.1219 %	110.6603 %	118.1804 %	109.2666 %
Concentration per Run 1	0.4592 ppm	100.9647 %	103.2580 %	83.0579 %	110.5924 %	118.3009 %	109.4634 %
Concentration per Run 2	0.4565 ppm	101.2548 %	103.5656 %	82.9205 %	110.8789 %	117.7313 %	108.8872 %
Concentration per Run 3	0.4555 ppm	101.5527 %	104.5162 %	83.3873 %	110.5096 %	118.5089 %	109.4491 %
Concentration RSD	0.4 %	0.3 %	0.6 %	0.3 %	0.2 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472649-06D2 WG2010523
Analysis started at: 12/18/2024 7:31:57 PM
Rack 2
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	0.0062 ppm	89.0740 ppm	0.0626 ppm	0.0381 ppm	1.1138 ppm	0.0059 ppm	35.4305 ppm
Concentration per Run 1	0.0062 ppm	89.4453 ppm	0.0633 ppm	0.0383 ppm	1.1148 ppm	0.0059 ppm	35.5956 ppm
Concentration per Run 2	0.0060 ppm	89.0999 ppm	0.0618 ppm	0.0377 ppm	1.1139 ppm	0.0058 ppm	35.1950 ppm
Concentration per Run 3	0.0065 ppm	88.6767 ppm	0.0626 ppm	0.0382 ppm	1.1128 ppm	0.0059 ppm	35.5007 ppm
Concentration RSD	3.6 %	0.4 %	1.2 %	0.8 %	0.1 %	0.4 %	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	0.0017 ppm	0.1178 ppm	0.2245 ppm	1.4039 ppm	196.2690 ppm	22.4620 ppm	0.1987 ppm
Concentration per Run 1	0.0018 ppm	0.1179 ppm	0.2257 ppm	1.4166 ppm	196.7491 ppm	22.4163 ppm	0.1995 ppm
Concentration per Run 2	0.0017 ppm	0.1177 ppm	0.2244 ppm	1.3991 ppm	195.7420 ppm	22.5933 ppm	0.1996 ppm
Concentration per Run 3	0.0017 ppm	0.1178 ppm	0.2236 ppm	1.3959 ppm	196.3159 ppm	22.3765 ppm	0.1969 ppm
Concentration RSD	4.3 %	0.1 %	0.5 %	0.8 %	0.3 %	0.5 %	0.8 %

	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	55.0532 ppm	3.2946 ppm	0.0087 ppm	6.4671 ppm	0.6833 ppm	3.7012 ppm	0.0471 ppm
Concentration per Run 1	55.3311 ppm	3.3039 ppm	0.0087 ppm	6.4982 ppm	0.6871 ppm	3.6902 ppm	0.0481 ppm
Concentration per Run 2	54.9699 ppm	3.2872 ppm	0.0088 ppm	6.5048 ppm	0.6822 ppm	3.6990 ppm	0.0467 ppm
Concentration per Run 3	54.8587 ppm	3.2926 ppm	0.0086 ppm	6.3983 ppm	0.6805 ppm	3.7142 ppm	0.0464 ppm
Concentration RSD	0.4 %	0.3 %	1.0 %	0.9 %	0.5 %	0.3 %	2.0 %

	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	0.0031 ppm	2.7720 ppm	0.2899 ppm	0.3071 ppm	2.7663 ppm	0.0002 ppm	0.2419 ppm
Concentration per Run 1	0.0040 ppm	2.8203 ppm	0.2901 ppm	0.3079 ppm	2.7814 ppm	-0.0005 ppm	0.2427 ppm
Concentration per Run 2	0.0021 ppm	2.7589 ppm	0.2901 ppm	0.3073 ppm	2.7710 ppm	0.0015 ppm	0.2424 ppm
Concentration per Run 3	0.0032 ppm	2.7369 ppm	0.2896 ppm	0.3062 ppm	2.7465 ppm	-0.0004 ppm	0.2407 ppm
Concentration RSD	31.2 %	1.6 %	0.1 %	0.3 %	0.6 %	557.5 %	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	1.1800 ppm	102.8115 %	106.0952 %	79.6772 %	121.4569 %	130.9626 %	119.3625 %
Concentration per Run 1	1.1826 ppm	102.4527 %	105.4962 %	79.8611 %	121.4975 %	130.8508 %	119.3166 %
Concentration per Run 2	1.1801 ppm	103.0034 %	106.6515 %	79.6460 %	121.5237 %	131.3616 %	119.2340 %
Concentration per Run 3	1.1773 ppm	102.9785 %	106.1379 %	79.5245 %	121.3496 %	130.6753 %	119.5368 %
Concentration RSD	0.2 %	0.3 %	0.5 %	0.2 %	0.1 %	0.3 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472649-08D2 WG2010523
Analysis started at: 12/18/2024 7:36:25 PM
Rack 2
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	0.0027 ppm	55.1731 ppm	0.0579 ppm	0.0208 ppm	0.5922 ppm	0.0032 ppm	64.7576 ppm
Concentration per Run 1	0.0029 ppm	54.9306 ppm	0.0587 ppm	0.0210 ppm	0.5892 ppm	0.0032 ppm	64.7601 ppm
Concentration per Run 2	0.0026 ppm	55.3309 ppm	0.0587 ppm	0.0208 ppm	0.5960 ppm	0.0032 ppm	64.7166 ppm
Concentration per Run 3	0.0027 ppm	55.2578 ppm	0.0563 ppm	0.0206 ppm	0.5913 ppm	0.0032 ppm	64.7961 ppm
Concentration RSD	5.0 %	0.4 %	2.4 %	1.0 %	0.6 %	1.4 %	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	0.0007 ppm	0.0527 ppm	0.1590 ppm	0.6198 ppm	128.4153 ppm	9.2752 ppm	0.1172 ppm
Concentration per Run 1	0.0007 ppm	0.0525 ppm	0.1601 ppm	0.6237 ppm	128.3146 ppm	9.2125 ppm	0.1163 ppm
Concentration per Run 2	0.0006 ppm	0.0529 ppm	0.1593 ppm	0.6179 ppm	128.7261 ppm	9.3659 ppm	0.1188 ppm
Concentration per Run 3	0.0007 ppm	0.0528 ppm	0.1577 ppm	0.6178 ppm	128.2052 ppm	9.2472 ppm	0.1166 ppm
Concentration RSD	4.0 %	0.5 %	0.8 %	0.5 %	0.2 %	0.9 %	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	29.8646 ppm	1.8734 ppm	0.0080 ppm	2.7017 ppm	0.2679 ppm	2.3492 ppm	0.0650 ppm
Concentration per Run 1	30.0701 ppm	1.8717 ppm	0.0078 ppm	2.6825 ppm	0.2702 ppm	2.3521 ppm	0.0675 ppm
Concentration per Run 2	29.8627 ppm	1.8766 ppm	0.0079 ppm	2.7289 ppm	0.2685 ppm	2.3517 ppm	0.0633 ppm
Concentration per Run 3	29.6610 ppm	1.8719 ppm	0.0082 ppm	2.6937 ppm	0.2651 ppm	2.3439 ppm	0.0643 ppm
Concentration RSD	0.7 %	0.1 %	2.4 %	0.9 %	1.0 %	0.2 %	3.4 %

	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	0.0034 ppm	3.4802 ppm	0.1387 ppm	0.2888 ppm	1.5455 ppm	0.0003 ppm	0.1576 ppm
Concentration per Run 1	0.0033 ppm	3.5102 ppm	0.1399 ppm	0.2875 ppm	1.5558 ppm	-0.0003 ppm	0.1584 ppm
Concentration per Run 2	0.0033 ppm	3.4998 ppm	0.1365 ppm	0.2901 ppm	1.5471 ppm	0.0010 ppm	0.1578 ppm
Concentration per Run 3	0.0038 ppm	3.4306 ppm	0.1398 ppm	0.2888 ppm	1.5335 ppm	0.0002 ppm	0.1566 ppm
Concentration RSD	8.9 %	1.2 %	1.4 %	0.5 %	0.7 %	206.4 %	0.6 %

	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	0.6125 ppm	101.5156 %	103.4750 %	82.3007 %	108.3906 %	115.2889 %	106.6444 %
Concentration per Run 1	0.6139 ppm	100.9793 %	103.4985 %	82.0036 %	108.2207 %	114.7714 %	106.6521 %
Concentration per Run 2	0.6133 ppm	101.3714 %	103.1572 %	82.5288 %	108.2440 %	115.3367 %	106.6853 %
Concentration per Run 3	0.6103 ppm	102.1960 %	103.7694 %	82.3698 %	108.7069 %	115.7587 %	106.5958 %
Concentration RSD	0.3 %	0.6 %	0.3 %	0.3 %	0.3 %	0.4 %	0.0 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472649-10D2 WG2010523
Analysis started at: 12/18/2024 7:40:53 PM
Rack 2
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	0.0017 ppm	41.6352 ppm	0.0530 ppm	0.0210 ppm	0.3962 ppm	0.0029 ppm	198.8364 ppm
Concentration per Run 1	0.0015 ppm	41.4755 ppm	0.0528 ppm	0.0216 ppm	0.3959 ppm	0.0029 ppm	198.3326 ppm
Concentration per Run 2	0.0018 ppm	41.6308 ppm	0.0533 ppm	0.0205 ppm	0.3942 ppm	0.0029 ppm	198.0305 ppm
Concentration per Run 3	0.0016 ppm	41.7994 ppm	0.0529 ppm	0.0210 ppm	0.3986 ppm	0.0030 ppm	200.1461 ppm
Concentration RSD	10.8 %	0.4 %	0.5 %	2.5 %	0.6 %	0.9 %	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	0.0538 ppm	0.0986 ppm	0.8296 ppm	117.2045 ppm	7.2533 ppm	0.0895 ppm
Concentration per Run 1	-0.0003 ppm	0.0542 ppm	0.0991 ppm	0.8257 ppm	117.1789 ppm	7.2578 ppm	0.0894 ppm
Concentration per Run 2	-0.0003 ppm	0.0536 ppm	0.0983 ppm	0.8309 ppm	116.4288 ppm	7.2162 ppm	0.0894 ppm
Concentration per Run 3	-0.0002 ppm	0.0536 ppm	0.0984 ppm	0.8321 ppm	118.0059 ppm	7.2860 ppm	0.0895 ppm
Concentration RSD	19.4 %	0.7 %	0.4 %	0.4 %	0.7 %	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	24.0786 ppm	2.2626 ppm	0.0120 ppm	3.1175 ppm	0.1403 ppm	1.5471 ppm	0.0099 ppm
Concentration per Run 1	24.1815 ppm	2.2570 ppm	0.0117 ppm	3.1069 ppm	0.1410 ppm	1.5531 ppm	0.0089 ppm
Concentration per Run 2	24.0749 ppm	2.2591 ppm	0.0121 ppm	3.1206 ppm	0.1401 ppm	1.5382 ppm	0.0118 ppm
Concentration per Run 3	23.9795 ppm	2.2716 ppm	0.0122 ppm	3.1250 ppm	0.1398 ppm	1.5501 ppm	0.0092 ppm
Concentration RSD	0.4 %	0.3 %	2.1 %	0.3 %	0.4 %	0.5 %	15.9 %

	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	0.0071 ppm	2.7286 ppm	0.1349 ppm	0.7456 ppm	1.9047 ppm	0.0001 ppm	0.1541 ppm
Concentration per Run 1	0.0077 ppm	2.7281 ppm	0.1338 ppm	0.7444 ppm	1.9164 ppm	0.0008 ppm	0.1546 ppm
Concentration per Run 2	0.0065 ppm	2.7631 ppm	0.1356 ppm	0.7428 ppm	1.9013 ppm	-0.0001 ppm	0.1538 ppm
Concentration per Run 3	0.0071 ppm	2.6944 ppm	0.1355 ppm	0.7498 ppm	1.8964 ppm	-0.0005 ppm	0.1539 ppm
Concentration RSD	8.5 %	1.3 %	0.8 %	0.5 %	0.5 %	1,160.3 %	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	0.4412 ppm	97.7493 %	100.6519 %	77.6749 %	102.0452 %	109.1464 %	100.2582 %
Concentration per Run 1	0.4430 ppm	97.5686 %	100.6531 %	77.5570 %	101.9966 %	108.9455 %	100.2672 %
Concentration per Run 2	0.4414 ppm	97.5716 %	101.2769 %	77.8896 %	102.1564 %	109.6779 %	100.5733 %
Concentration per Run 3	0.4391 ppm	98.1076 %	100.0257 %	77.5782 %	101.9826 %	108.8158 %	99.9340 %
Concentration RSD	0.4 %	0.3 %	0.6 %	0.2 %	0.1 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472649-12D2 WG2010523
Analysis started at: 12/18/2024 7:45:20 PM
Rack 2
Vial 50
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	0.0062 ppm	49.2570 ppm	0.0756 ppm	0.0297 ppm	0.6102 ppm	0.0032 ppm	156.2693 ppm
Concentration per Run 1	0.0063 ppm	49.0748 ppm	0.0763 ppm	0.0292 ppm	0.6103 ppm	0.0032 ppm	155.0514 ppm
Concentration per Run 2	0.0061 ppm	49.4843 ppm	0.0754 ppm	0.0300 ppm	0.6107 ppm	0.0032 ppm	157.1729 ppm
Concentration per Run 3	0.0062 ppm	49.2119 ppm	0.0750 ppm	0.0300 ppm	0.6094 ppm	0.0032 ppm	156.5837 ppm
Concentration RSD	1.3 %	0.4 %	0.9 %	1.5 %	0.1 %	0.6 %	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	0.0017 ppm	0.0528 ppm	0.1101 ppm	0.6833 ppm	164.3606 ppm	7.9238 ppm	0.0988 ppm
Concentration per Run 1	0.0016 ppm	0.0533 ppm	0.1100 ppm	0.6894 ppm	164.1112 ppm	7.9468 ppm	0.0989 ppm
Concentration per Run 2	0.0017 ppm	0.0532 ppm	0.1106 ppm	0.6821 ppm	164.7755 ppm	7.9616 ppm	0.0996 ppm
Concentration per Run 3	0.0016 ppm	0.0521 ppm	0.1098 ppm	0.6785 ppm	164.1952 ppm	7.8629 ppm	0.0979 ppm
Concentration RSD	3.6 %	1.2 %	0.4 %	0.8 %	0.2 %	0.7 %	0.9 %

	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	37.3379 ppm	2.7393 ppm	0.0147 ppm	2.6124 ppm	0.2205 ppm	4.2040 ppm	0.0766 ppm
Concentration per Run 1	37.4265 ppm	2.7234 ppm	0.0143 ppm	2.6131 ppm	0.2227 ppm	4.2037 ppm	0.0765 ppm
Concentration per Run 2	37.2785 ppm	2.7537 ppm	0.0149 ppm	2.6311 ppm	0.2197 ppm	4.2251 ppm	0.0763 ppm
Concentration per Run 3	37.3087 ppm	2.7408 ppm	0.0148 ppm	2.5928 ppm	0.2192 ppm	4.1832 ppm	0.0771 ppm
Concentration RSD	0.2 %	0.6 %	1.9 %	0.7 %	0.9 %	0.5 %	0.5 %

	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	0.0021 ppm	3.9112 ppm	0.3240 ppm	0.5627 ppm	1.4453 ppm	-0.0010 ppm	0.1410 ppm
Concentration per Run 1	0.0018 ppm	3.9711 ppm	0.3233 ppm	0.5637 ppm	1.4512 ppm	-0.0009 ppm	0.1406 ppm
Concentration per Run 2	0.0023 ppm	3.9184 ppm	0.3245 ppm	0.5635 ppm	1.4487 ppm	-0.0014 ppm	0.1415 ppm
Concentration per Run 3	0.0023 ppm	3.8441 ppm	0.3244 ppm	0.5610 ppm	1.4359 ppm	-0.0006 ppm	0.1408 ppm
Concentration RSD	13.9 %	1.6 %	0.2 %	0.3 %	0.6 %	40.2 %	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	9.4219 ppm	97.5461 %	101.0119 %	77.5718 %	102.2481 %	110.7364 %	100.3589 %
Concentration per Run 1	9.4091 ppm	97.3433 %	101.8154 %	77.4297 %	102.5704 %	111.5622 %	100.2094 %
Concentration per Run 2	9.4385 ppm	97.6362 %	100.2328 %	76.8927 %	102.2565 %	110.0708 %	99.7551 %
Concentration per Run 3	9.4180 ppm	97.6589 %	100.9877 %	78.3928 %	101.9174 %	110.5763 %	101.1123 %
Concentration RSD	0.2 %	0.2 %	0.8 %	1.0 %	0.3 %	0.7 %	0.7 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: eL2472674-01D2 WG2010523
Analysis started at: 12/18/2024 7:49:48 PM
Rack 2
Vial 51
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	0.0174 ppm	93.3954 ppm	0.1121 ppm	0.0972 ppm	0.9907 ppm	0.0058 ppm	17.3196 ppm
Concentration per Run 1	0.0175 ppm	94.0512 ppm	0.1118 ppm	0.0976 ppm	0.9874 ppm	0.0058 ppm	17.3003 ppm
Concentration per Run 2	0.0172 ppm	93.1120 ppm	0.1128 ppm	0.0978 ppm	0.9937 ppm	0.0058 ppm	17.5275 ppm
Concentration per Run 3	0.0175 ppm	93.0229 ppm	0.1116 ppm	0.0963 ppm	0.9911 ppm	0.0057 ppm	17.1308 ppm
Concentration RSD	1.0 %	0.6 %	0.6 %	0.8 %	0.3 %	0.9 %	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	0.0191 ppm	0.0567 ppm	0.1858 ppm	47.7391 [SIC 40]	189.0041 ppm	6.8476 ppm	0.2386 ppm
Concentration per Run 1	0.0192 ppm	0.0569 ppm	0.1850 ppm	48.0467 ppm	188.4237 ppm	6.9171 ppm	0.2411 ppm
Concentration per Run 2	0.0190 ppm	0.0564 ppm	0.1867 ppm	47.7100 ppm	190.5954 ppm	6.8031 ppm	0.2361 ppm
Concentration per Run 3	0.0190 ppm	0.0569 ppm	0.1858 ppm	47.4607 ppm	187.9931 ppm	6.8225 ppm	0.2385 ppm
Concentration RSD	0.4 %	0.5 %	0.5 %	0.6 %	0.7 %	0.9 %	1.0 %

	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	22.1031 ppm	1.7540 ppm	0.0140 ppm	0.8727 ppm	0.1836 ppm	2.0268 ppm	0.0671 ppm
Concentration per Run 1	22.1321 ppm	1.7479 ppm	0.0136 ppm	0.8886 ppm	0.1835 ppm	2.0303 ppm	0.0673 ppm
Concentration per Run 2	22.0807 ppm	1.7709 ppm	0.0144 ppm	0.8600 ppm	0.1835 ppm	2.0203 ppm	0.0647 ppm
Concentration per Run 3	22.0966 ppm	1.7431 ppm	0.0138 ppm	0.8696 ppm	0.1838 ppm	2.0299 ppm	0.0694 ppm
Concentration RSD	0.1 %	0.8 %	2.8 %	1.7 %	0.1 %	0.3 %	3.5 %

	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	0.0049 ppm	4.6775 ppm	0.0537 ppm	0.1292 ppm	1.1302 ppm	0.0019 ppm	0.2874 ppm
Concentration per Run 1	0.0053 ppm	4.6155 ppm	0.0534 ppm	0.1292 ppm	1.1237 ppm	0.0011 ppm	0.2884 ppm
Concentration per Run 2	0.0045 ppm	4.6955 ppm	0.0534 ppm	0.1295 ppm	1.1430 ppm	0.0031 ppm	0.2877 ppm
Concentration per Run 3	0.0048 ppm	4.7215 ppm	0.0542 ppm	0.1288 ppm	1.1239 ppm	0.0016 ppm	0.2861 ppm
Concentration RSD	8.2 %	1.2 %	0.8 %	0.3 %	1.0 %	54.1 %	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	1.1238 ppm	101.0953 %	103.3845 %	81.5519 %	103.1402 %	110.4427 %	97.5012 %
Concentration per Run 1	1.1189 ppm	100.8287 %	103.9812 %	81.2684 %	103.4700 %	111.0983 %	97.3157 %
Concentration per Run 2	1.1240 ppm	101.2170 %	101.8467 %	81.4395 %	103.4119 %	109.1931 %	97.5712 %
Concentration per Run 3	1.1286 ppm	101.2402 %	104.3256 %	81.9477 %	102.5386 %	111.0366 %	97.6168 %
Concentration RSD	0.4 %	0.2 %	1.3 %	0.4 %	0.5 %	1.0 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCV
Analysis started at: 12/18/2024 7:54:15 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	0.4747 ppm	0.4768 ppm	0.4677 ppm	0.4693 ppm	0.4895 ppm	0.4998 ppm	0.4820 ppm
Concentration per Run 1	0.4772 ppm	0.4752 ppm	0.4686 ppm	0.4723 ppm	0.4904 ppm	0.4963 ppm	0.4826 ppm
Concentration per Run 2	0.4752 ppm	0.4772 ppm	0.4653 ppm	0.4706 ppm	0.4887 ppm	0.5005 ppm	0.4801 ppm
Concentration per Run 3	0.4715 ppm	0.4780 ppm	0.4693 ppm	0.4650 ppm	0.4895 ppm	0.5028 ppm	0.4832 ppm
Recovery Percentage 1	94.935 %	95.362 %	93.545 %	93.859 %	97.903 %	99.969 %	96.392 %
Concentration RSD	0.6 %	0.3 %	0.5 %	0.8 %	0.2 %	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	0.4771 ppm	0.4970 ppm	0.4801 ppm	0.4857 ppm	0.5166 ppm	5.1882 ppm	0.5058 ppm
Concentration per Run 1	0.4741 ppm	0.4961 ppm	0.4812 ppm	0.4889 ppm	0.5161 ppm	5.1590 ppm	0.5050 ppm
Concentration per Run 2	0.4793 ppm	0.4976 ppm	0.4817 ppm	0.4838 ppm	0.5139 ppm	5.1817 ppm	0.5056 ppm
Concentration per Run 3	0.4778 ppm	0.4971 ppm	0.4775 ppm	0.4845 ppm	0.5198 ppm	5.2239 ppm	0.5067 ppm
Recovery Percentage 1	95.415 %	99.390 %	96.024 %	97.148 %	103.318 %	103.764 %	101.162 %
Concentration RSD	0.6 %	0.2 %	0.5 %	0.6 %	0.6 %	0.6 %	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	0.4841 ppm	0.4769 ppm	0.4832 ppm	10.1628 ppm	0.4951 ppm	0.4843 ppm	0.4854 ppm
Concentration per Run 1	0.4857 ppm	0.4721 ppm	0.4793 ppm	10.2377 ppm	0.4941 ppm	0.4855 ppm	0.4857 ppm
Concentration per Run 2	0.4842 ppm	0.4789 ppm	0.4849 ppm	10.0671 ppm	0.4965 ppm	0.4828 ppm	0.4862 ppm
Concentration per Run 3	0.4824 ppm	0.4797 ppm	0.4855 ppm	10.1836 ppm	0.4946 ppm	0.4845 ppm	0.4842 ppm
Recovery Percentage 1	96.828 %	95.381 %	96.647 %	101.628 %	99.016 %	96.851 %	97.070 %
Concentration RSD	0.3 %	0.9 %	0.7 %	0.9 %	0.3 %	0.3 %	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	0.4829 ppm	5.3939 ppm	0.4969 ppm	0.5212 ppm	0.4835 ppm	0.4774 ppm	0.4868 ppm
Concentration per Run 1	0.4817 ppm	5.4033 ppm	0.4944 ppm	0.5193 ppm	0.4850 ppm	0.4787 ppm	0.4890 ppm
Concentration per Run 2	0.4822 ppm	5.4011 ppm	0.4980 ppm	0.5223 ppm	0.4835 ppm	0.4758 ppm	0.4867 ppm
Concentration per Run 3	0.4849 ppm	5.3774 ppm	0.4983 ppm	0.5218 ppm	0.4820 ppm	0.4778 ppm	0.4847 ppm
Recovery Percentage 1	96.588 %	102.742 %	99.381 %	104.230 %	96.705 %	95.480 %	97.355 %
Concentration RSD	0.4 %	0.3 %	0.4 %	0.3 %	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	0.4789 ppm	101.0905 %	100.7373 %	93.1373 %	95.9061 %	98.5516 %	95.5101 %
Concentration per Run 1	0.4766 ppm	100.7788 %	101.9315 %	93.2099 %	95.9246 %	99.5455 %	95.6803 %
Concentration per Run 2	0.4807 ppm	100.9495 %	100.4255 %	92.6075 %	95.5074 %	98.1952 %	95.1306 %
Concentration per Run 3	0.4796 ppm	101.5432 %	99.8549 %	93.5946 %	96.2865 %	97.9141 %	95.7194 %
Recovery Percentage 1	95.787 %						
Concentration RSD	0.4 %	0.4 %	1.1 %	0.5 %	0.4 %	0.9 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCB
Analysis started at: 12/18/2024 7:58:41 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	-0.0060 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 1	-0.0004 ppm	-0.0074 ppm	0.0007 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 2	-0.0001 ppm	-0.0065 ppm	0.0011 ppm	0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 3	-0.0003 ppm	-0.0041 ppm	0.0012 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0018 ppm
Recovery Percentage 1	-5.471 %	-5.988 %	19.771 %	0.155 %	-0.105 %	0.885 %	-0.827 %
Concentration RSD	56.3 %	28.1 %	29.3 %	500.7 %	356.4 %	17.1 %	123.5 %

	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	0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0040 ppm	0.0084 ppm	0.0003 ppm
Concentration per Run 1	0.0001 ppm	0.0004 ppm	0.0001 ppm	0.0001 ppm	0.0037 ppm	0.0086 ppm	0.0003 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0041 ppm	0.0097 ppm	0.0007 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0041 ppm	0.0069 ppm	-0.0002 ppm
Recovery Percentage 1	0.406 %	1.737 %	0.567 %	0.586 %	7.921 %	0.336 %	2.624 %
Concentration RSD	500.1 %	104.9 %	91.4 %	147.1 %	4.8 %	16.8 %	175.1 %

	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	-0.0002 ppm	0.0001 ppm	0.0031 ppm	-0.0028 ppm	0.0001 ppm	0.0003 ppm	-0.0010 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0034 ppm	-0.0024 ppm	0.0001 ppm	0.0004 ppm	-0.0006 ppm
Concentration per Run 2	-0.0004 ppm	0.0001 ppm	0.0033 ppm	-0.0026 ppm	-0.0003 ppm	0.0005 ppm	-0.0010 ppm
Concentration per Run 3	-0.0002 ppm	0.0001 ppm	0.0028 ppm	-0.0034 ppm	0.0006 ppm	-0.0001 ppm	-0.0014 ppm
Recovery Percentage 1	-0.187 %	0.936 %	6.292 %	-0.140 %	0.389 %	2.865 %	-2.006 %
Concentration RSD	82.8 %	61.3 %	9.6 %	17.8 %	466.5 %	108.6 %	38.6 %

	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	0.0008 ppm	0.0057 ppm	0.0000 ppm	0.0001 ppm	0.0003 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 1	0.0006 ppm	0.0062 ppm	-0.0001 ppm	0.0001 ppm	0.0004 ppm	-0.0013 ppm	0.0000 ppm
Concentration per Run 2	0.0009 ppm	0.0056 ppm	0.0002 ppm	0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 3	0.0010 ppm	0.0052 ppm	-0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm
Recovery Percentage 1	8.173 %	1.134 %	-0.059 %	0.621 %	2.868 %	-2.046 %	0.063 %
Concentration RSD	28.1 %	9.3 %	792.4 %	22.9 %	34.9 %	184.9 %	536.9 %

	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	0.0001 ppm	99.8853 %	99.8361 %	94.4621 %	98.8152 %	99.5999 %	97.1587 %
Concentration per Run 1	0.0001 ppm	98.9909 %	99.7516 %	93.7243 %	98.6860 %	99.3215 %	96.9302 %
Concentration per Run 2	0.0002 ppm	100.4151 %	99.6862 %	95.0589 %	99.5333 %	98.8708 %	97.5653 %
Concentration per Run 3	0.0001 ppm	100.2500 %	100.0706 %	94.6031 %	98.2262 %	100.6075 %	96.9807 %
Recovery Percentage 1	2.597 %						
Concentration RSD	57.1 %	0.8 %	0.2 %	0.7 %	0.7 %	0.9 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472674-02D2 WG2010523
Analysis started at: 12/18/2024 8:06:49 PM
Rack 2
Vial 52
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	0.0097 ppm	98.7866 ppm	0.0293 ppm	0.0195 ppm	0.4624 ppm	0.0041 ppm	20.3908 ppm
Concentration per Run 1	0.0095 ppm	99.2564 ppm	0.0300 ppm	0.0191 ppm	0.4624 ppm	0.0041 ppm	20.5943 ppm
Concentration per Run 2	0.0096 ppm	99.0730 ppm	0.0296 ppm	0.0192 ppm	0.4657 ppm	0.0041 ppm	20.2845 ppm
Concentration per Run 3	0.0098 ppm	98.0304 ppm	0.0284 ppm	0.0202 ppm	0.4592 ppm	0.0041 ppm	20.2937 ppm
Concentration RSD	1.2 %	0.7 %	2.9 %	3.2 %	0.7 %	1.0 %	0.9 %

	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	0.0014 ppm	0.0343 ppm	0.1766 ppm	3.2468 ppm	125.1481 ppm	5.1855 ppm	0.0957 ppm
Concentration per Run 1	0.0015 ppm	0.0339 ppm	0.1766 ppm	3.2568 ppm	126.3713 ppm	5.2544 ppm	0.0966 ppm
Concentration per Run 2	0.0014 ppm	0.0346 ppm	0.1766 ppm	3.2356 ppm	124.4272 ppm	5.1738 ppm	0.0964 ppm
Concentration per Run 3	0.0012 ppm	0.0343 ppm	0.1766 ppm	3.2480 ppm	124.6458 ppm	5.1284 ppm	0.0940 ppm
Concentration RSD	11.3 %	1.0 %	0.0 %	0.3 %	0.9 %	1.2 %	1.5 %

	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	13.8749 ppm	0.9652 ppm	0.0048 ppm	0.6209 ppm	0.1040 ppm	1.1242 ppm	0.0412 ppm
Concentration per Run 1	13.8500 ppm	0.9738 ppm	0.0044 ppm	0.6272 ppm	0.1037 ppm	1.1283 ppm	0.0421 ppm
Concentration per Run 2	13.9071 ppm	0.9594 ppm	0.0052 ppm	0.6257 ppm	0.1036 ppm	1.1235 ppm	0.0386 ppm
Concentration per Run 3	13.8675 ppm	0.9623 ppm	0.0048 ppm	0.6099 ppm	0.1048 ppm	1.1207 ppm	0.0429 ppm
Concentration RSD	0.2 %	0.8 %	8.6 %	1.5 %	0.6 %	0.3 %	5.5 %

	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	0.0012 ppm	3.5977 ppm	0.0400 ppm	0.1513 ppm	1.3200 ppm	0.0028 ppm	0.2164 ppm
Concentration per Run 1	0.0015 ppm	3.6864 ppm	0.0398 ppm	0.1523 ppm	1.3153 ppm	0.0034 ppm	0.2165 ppm
Concentration per Run 2	0.0014 ppm	3.5773 ppm	0.0396 ppm	0.1515 ppm	1.3192 ppm	0.0021 ppm	0.2160 ppm
Concentration per Run 3	0.0007 ppm	3.5294 ppm	0.0406 ppm	0.1501 ppm	1.3255 ppm	0.0029 ppm	0.2166 ppm
Concentration RSD	36.4 %	2.2 %	1.3 %	0.7 %	0.4 %	24.8 %	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	0.2302 ppm	105.9585 %	107.1922 %	87.5420 %	107.5353 %	114.2986 %	107.5671 %
Concentration per Run 1	0.2285 ppm	105.9687 %	106.1102 %	87.3958 %	107.6519 %	113.9346 %	107.3684 %
Concentration per Run 2	0.2306 ppm	106.2335 %	107.9722 %	87.3933 %	107.6973 %	114.7778 %	107.4081 %
Concentration per Run 3	0.2317 ppm	105.6732 %	107.4942 %	87.8369 %	107.2568 %	114.1832 %	107.9249 %
Concentration RSD	0.7 %	0.3 %	0.9 %	0.3 %	0.2 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472862-01D2 WG2010523
Analysis started at: 12/18/2024 8:11:23 PM
Rack 2
Vial 53
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	0.0015 ppm	88.6232 ppm	0.0440 ppm	0.0443 ppm	0.4420 ppm	0.0067 ppm	8.8852 ppm
Concentration per Run 1	0.0015 ppm	87.8227 ppm	0.0442 ppm	0.0444 ppm	0.4410 ppm	0.0066 ppm	8.7945 ppm
Concentration per Run 2	0.0016 ppm	88.5192 ppm	0.0444 ppm	0.0447 ppm	0.4423 ppm	0.0067 ppm	8.8747 ppm
Concentration per Run 3	0.0013 ppm	89.5278 ppm	0.0435 ppm	0.0438 ppm	0.4427 ppm	0.0067 ppm	8.9866 ppm
Concentration RSD	9.5 %	1.0 %	1.0 %	1.1 %	0.2 %	0.7 %	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	0.0011 ppm	0.0725 ppm	0.2273 ppm	0.0567 ppm	154.4261 ppm	12.5460 ppm	0.0729 ppm
Concentration per Run 1	0.0010 ppm	0.0721 ppm	0.2276 ppm	0.0570 ppm	153.5391 ppm	12.5116 ppm	0.0735 ppm
Concentration per Run 2	0.0011 ppm	0.0729 ppm	0.2279 ppm	0.0568 ppm	154.4604 ppm	12.4868 ppm	0.0728 ppm
Concentration per Run 3	0.0010 ppm	0.0725 ppm	0.2264 ppm	0.0564 ppm	155.2787 ppm	12.6395 ppm	0.0725 ppm
Concentration RSD	4.9 %	0.6 %	0.4 %	0.5 %	0.6 %	0.7 %	0.7 %

	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	15.8341 ppm	2.7795 ppm	0.0043 ppm	0.2127 ppm	0.0733 ppm	0.1386 ppm	0.0021 ppm
Concentration per Run 1	15.8669 ppm	2.7555 ppm	0.0043 ppm	0.2113 ppm	0.0733 ppm	0.1395 ppm	0.0011 ppm
Concentration per Run 2	15.8662 ppm	2.7797 ppm	0.0045 ppm	0.2126 ppm	0.0740 ppm	0.1381 ppm	0.0035 ppm
Concentration per Run 3	15.7692 ppm	2.8034 ppm	0.0039 ppm	0.2143 ppm	0.0728 ppm	0.1380 ppm	0.0019 ppm
Concentration RSD	0.4 %	0.9 %	7.3 %	0.7 %	0.8 %	0.6 %	57.1 %

	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	0.0006 ppm	4.3123 ppm	0.0071 ppm	0.0381 ppm	1.2425 ppm	0.0001 ppm	0.2501 ppm
Concentration per Run 1	0.0017 ppm	4.3349 ppm	0.0072 ppm	0.0381 ppm	1.2450 ppm	0.0014 ppm	0.2505 ppm
Concentration per Run 2	-0.0002 ppm	4.3334 ppm	0.0067 ppm	0.0381 ppm	1.2407 ppm	0.0004 ppm	0.2504 ppm
Concentration per Run 3	0.0003 ppm	4.2686 ppm	0.0073 ppm	0.0381 ppm	1.2417 ppm	-0.0015 ppm	0.2495 ppm
Concentration RSD	154.3 %	0.9 %	4.6 %	0.1 %	0.2 %	1,866.1 %	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	0.2955 ppm	101.3534 %	104.5410 %	83.5558 %	122.4644 %	132.0739 %	121.7726 %
Concentration per Run 1	0.2951 ppm	101.4984 %	105.6206 %	83.5096 %	123.0961 %	133.1986 %	121.5834 %
Concentration per Run 2	0.2973 ppm	101.1902 %	104.4739 %	83.8595 %	122.3752 %	132.1624 %	122.1322 %
Concentration per Run 3	0.2942 ppm	101.3717 %	103.5284 %	83.2982 %	121.9219 %	130.8606 %	121.6022 %
Concentration RSD	0.5 %	0.2 %	1.0 %	0.3 %	0.5 %	0.9 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472530-13d2 WG2010517
Analysis started at: 12/18/2024 8:15:50 PM
Rack 3
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	0.0000 ppm	39.6463 ppm	0.0133 ppm	0.0536 ppm	0.6247 ppm	0.0029 ppm	354.0283 ppm
Concentration per Run 1	0.0002 ppm	39.4831 ppm	0.0124 ppm	0.0543 ppm	0.6256 ppm	0.0029 ppm	351.5016 ppm
Concentration per Run 2	-0.0001 ppm	39.3120 ppm	0.0132 ppm	0.0528 ppm	0.6197 ppm	0.0029 ppm	352.8814 ppm
Concentration per Run 3	0.0001 ppm	40.1438 ppm	0.0142 ppm	0.0536 ppm	0.6287 ppm	0.0030 ppm	357.7020 ppm
Concentration RSD	440.8 %	1.1 %	6.8 %	1.4 %	0.7 %	3.8 %	0.9 %

	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	-0.0019 ppm	0.0182 ppm	0.0698 ppm	0.0650 ppm	56.2366 ppm	10.7864 ppm	0.0510 ppm
Concentration per Run 1	-0.0018 ppm	0.0182 ppm	0.0704 ppm	0.0656 ppm	56.2840 ppm	10.8236 ppm	0.0506 ppm
Concentration per Run 2	-0.0018 ppm	0.0181 ppm	0.0694 ppm	0.0644 ppm	56.1329 ppm	10.6823 ppm	0.0493 ppm
Concentration per Run 3	-0.0019 ppm	0.0185 ppm	0.0696 ppm	0.0651 ppm	56.2928 ppm	10.8534 ppm	0.0532 ppm
Concentration RSD	1.4 %	1.1 %	0.7 %	1.0 %	0.2 %	0.8 %	3.9 %

	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	29.4366 ppm	1.2118 ppm	0.0049 ppm	2.2480 ppm	0.0502 ppm	0.0520 ppm	0.0002 ppm
Concentration per Run 1	29.7189 ppm	1.2093 ppm	0.0050 ppm	2.2280 ppm	0.0509 ppm	0.0515 ppm	0.0014 ppm
Concentration per Run 2	29.1516 ppm	1.2124 ppm	0.0049 ppm	2.2031 ppm	0.0498 ppm	0.0528 ppm	-0.0026 ppm
Concentration per Run 3	29.4392 ppm	1.2137 ppm	0.0048 ppm	2.3129 ppm	0.0498 ppm	0.0517 ppm	0.0019 ppm
Concentration RSD	1.0 %	0.2 %	1.4 %	2.6 %	1.3 %	1.4 %	1,203.8 %

	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	-0.0006 ppm	9.6372 ppm	0.0045 ppm	1.7901 ppm	2.9680 ppm	0.0015 ppm	0.1518 ppm
Concentration per Run 1	0.0005 ppm	9.7688 ppm	0.0044 ppm	1.7879 ppm	2.9845 ppm	0.0022 ppm	0.1521 ppm
Concentration per Run 2	-0.0011 ppm	9.5034 ppm	0.0051 ppm	1.7791 ppm	2.9492 ppm	0.0010 ppm	0.1519 ppm
Concentration per Run 3	-0.0012 ppm	9.6394 ppm	0.0039 ppm	1.8033 ppm	2.9702 ppm	0.0014 ppm	0.1513 ppm
Concentration RSD	163.8 %	1.4 %	13.8 %	0.7 %	0.6 %	39.3 %	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	0.1996 ppm	94.6725 %	99.7767 %	73.1506 %	104.3745 %	114.5271 %	103.8510 %
Concentration per Run 1	0.2030 ppm	94.1132 %	99.9080 %	73.2475 %	104.1005 %	114.5752 %	103.9043 %
Concentration per Run 2	0.1974 ppm	95.0982 %	99.9734 %	73.0212 %	105.3322 %	114.6189 %	104.0212 %
Concentration per Run 3	0.1984 ppm	94.8061 %	99.4487 %	73.1831 %	103.6909 %	114.3873 %	103.6275 %
Concentration RSD	1.5 %	0.5 %	0.3 %	0.2 %	0.8 %	0.1 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472693-06d2 WG2010517
Analysis started at: 12/18/2024 8:20:18 PM
Rack 3
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	0.0013 ppm	94.1720 ppm	0.0415 ppm	0.0554 ppm	0.3685 ppm	0.0038 ppm	511.8429 ppm
Concentration per Run 1	0.0013 ppm	94.3026 ppm	0.0408 ppm	0.0567 ppm	0.3689 ppm	0.0038 ppm	513.8115 ppm
Concentration per Run 2	0.0013 ppm	94.3449 ppm	0.0406 ppm	0.0555 ppm	0.3658 ppm	0.0038 ppm	509.7475 ppm
Concentration per Run 3	0.0014 ppm	93.8684 ppm	0.0431 ppm	0.0539 ppm	0.3707 ppm	0.0038 ppm	511.9696 ppm
Concentration RSD	4.4 %	0.3 %	3.4 %	2.6 %	0.7 %	0.5 %	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	-0.0011 ppm	0.1107 ppm	0.1847 ppm	0.1642 ppm	146.5486 ppm	8.7924 ppm	0.3621 ppm
Concentration per Run 1	-0.0012 ppm	0.1112 ppm	0.1850 ppm	0.1653 ppm	147.0892 ppm	8.7184 ppm	0.3563 ppm
Concentration per Run 2	-0.0011 ppm	0.1099 ppm	0.1845 ppm	0.1638 ppm	145.7719 ppm	8.8008 ppm	0.3672 ppm
Concentration per Run 3	-0.0010 ppm	0.1111 ppm	0.1845 ppm	0.1636 ppm	146.7847 ppm	8.8579 ppm	0.3628 ppm
Concentration RSD	9.1 %	0.6 %	0.2 %	0.6 %	0.5 %	0.8 %	1.5 %

	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	221.8737 ppm	3.5586 ppm	0.0078 ppm	1.1643 ppm	0.2261 ppm	0.3659 ppm	0.0008 ppm
Concentration per Run 1	222.7795 ppm	3.5693 ppm	0.0080 ppm	1.1584 ppm	0.2255 ppm	0.3653 ppm	0.0005 ppm
Concentration per Run 2	221.1118 ppm	3.5526 ppm	0.0077 ppm	1.1700 ppm	0.2266 ppm	0.3669 ppm	0.0021 ppm
Concentration per Run 3	221.7298 ppm	3.5539 ppm	0.0077 ppm	1.1644 ppm	0.2262 ppm	0.3654 ppm	-0.0003 ppm
Concentration RSD	0.4 %	0.3 %	2.2 %	0.5 %	0.3 %	0.2 %	163.7 %

	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	7.1854 ppm	0.0102 ppm	2.4165 ppm	0.3946 ppm	-0.0017 ppm	0.2440 ppm
Concentration per Run 1	-0.0022 ppm	7.2203 ppm	0.0107 ppm	2.4165 ppm	0.3960 ppm	-0.0009 ppm	0.2457 ppm
Concentration per Run 2	-0.0012 ppm	7.1852 ppm	0.0097 ppm	2.4056 ppm	0.3935 ppm	-0.0023 ppm	0.2427 ppm
Concentration per Run 3	-0.0011 ppm	7.1509 ppm	0.0103 ppm	2.4274 ppm	0.3941 ppm	-0.0018 ppm	0.2435 ppm
Concentration RSD	40.9 %	0.5 %	4.7 %	0.4 %	0.3 %	42.6 %	0.7 %

	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	0.4149 ppm	91.1856 %	98.3216 %	68.4286 %	105.3960 %	119.6020 %	102.2899 %
Concentration per Run 1	0.4150 ppm	90.8475 %	98.1379 %	68.2638 %	105.4302 %	119.5317 %	101.9879 %
Concentration per Run 2	0.4131 ppm	91.2884 %	98.6082 %	68.5348 %	105.3586 %	119.6487 %	102.5547 %
Concentration per Run 3	0.4168 ppm	91.4208 %	98.2188 %	68.4872 %	105.3993 %	119.6256 %	102.3273 %
Concentration RSD	0.4 %	0.3 %	0.3 %	0.2 %	0.0 %	0.1 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472674-01D4 WG2010523
Analysis started at: 12/18/2024 8:24:46 PM
Rack 3
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	0.0033 ppm	18.3105 ppm	0.0236 ppm	0.0200 ppm	0.1998 ppm	0.0012 ppm	3.6023 ppm
Concentration per Run 1	0.0032 ppm	18.2969 ppm	0.0232 ppm	0.0200 ppm	0.2006 ppm	0.0012 ppm	3.6100 ppm
Concentration per Run 2	0.0036 ppm	18.3135 ppm	0.0232 ppm	0.0195 ppm	0.2002 ppm	0.0012 ppm	3.5824 ppm
Concentration per Run 3	0.0031 ppm	18.3210 ppm	0.0243 ppm	0.0205 ppm	0.1985 ppm	0.0012 ppm	3.6143 ppm
Concentration RSD	7.1 %	0.1 %	2.7 %	2.5 %	0.6 %	2.0 %	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	0.0040 ppm	0.0121 ppm	0.0385 ppm	10.3303 ppm	40.9599 ppm	1.2782 ppm	0.0451 ppm
Concentration per Run 1	0.0041 ppm	0.0119 ppm	0.0386 ppm	10.3906 ppm	40.9093 ppm	1.2861 ppm	0.0449 ppm
Concentration per Run 2	0.0039 ppm	0.0122 ppm	0.0383 ppm	10.3185 ppm	40.6450 ppm	1.2841 ppm	0.0451 ppm
Concentration per Run 3	0.0040 ppm	0.0121 ppm	0.0388 ppm	10.2820 ppm	41.3255 ppm	1.2645 ppm	0.0453 ppm
Concentration RSD	2.0 %	1.1 %	0.7 %	0.5 %	0.8 %	0.9 %	0.4 %

	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	4.7660 ppm	0.3614 ppm	0.0034 ppm	0.1640 ppm	0.0396 ppm	0.3953 ppm	0.0118 ppm
Concentration per Run 1	4.7834 ppm	0.3626 ppm	0.0037 ppm	0.1632 ppm	0.0396 ppm	0.3950 ppm	0.0128 ppm
Concentration per Run 2	4.7625 ppm	0.3594 ppm	0.0032 ppm	0.1627 ppm	0.0400 ppm	0.3951 ppm	0.0126 ppm
Concentration per Run 3	4.7522 ppm	0.3622 ppm	0.0034 ppm	0.1661 ppm	0.0393 ppm	0.3958 ppm	0.0101 ppm
Concentration RSD	0.3 %	0.5 %	7.8 %	1.1 %	0.8 %	0.1 %	12.5 %

	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	0.0030 ppm	0.9186 ppm	0.0121 ppm	0.0258 ppm	0.2282 ppm	0.0004 ppm	0.0584 ppm
Concentration per Run 1	0.0023 ppm	0.9254 ppm	0.0119 ppm	0.0259 ppm	0.2310 ppm	0.0003 ppm	0.0584 ppm
Concentration per Run 2	0.0041 ppm	0.9208 ppm	0.0127 ppm	0.0258 ppm	0.2270 ppm	0.0010 ppm	0.0586 ppm
Concentration per Run 3	0.0025 ppm	0.9097 ppm	0.0117 ppm	0.0258 ppm	0.2265 ppm	0.0001 ppm	0.0581 ppm
Concentration RSD	32.8 %	0.9 %	4.2 %	0.2 %	1.1 %	104.6 %	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	0.2367 ppm	101.2679 %	102.1083 %	91.2464 %	97.9520 %	101.7821 %	95.9435 %
Concentration per Run 1	0.2392 ppm	100.8625 %	102.0400 %	91.2350 %	98.1257 %	101.7668 %	96.2388 %
Concentration per Run 2	0.2348 ppm	101.4553 %	102.3309 %	91.1029 %	98.0016 %	102.2874 %	95.9343 %
Concentration per Run 3	0.2361 ppm	101.4859 %	101.9541 %	91.4013 %	97.7286 %	101.2919 %	95.6574 %
Concentration RSD	0.9 %	0.3 %	0.2 %	0.2 %	0.2 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCV
Analysis started at: 12/18/2024 8:29:15 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	0.4747 ppm	0.4692 ppm	0.4692 ppm	0.4714 ppm	0.4935 ppm	0.4987 ppm	0.4780 ppm
Concentration per Run 1	0.4777 ppm	0.4725 ppm	0.4700 ppm	0.4703 ppm	0.4898 ppm	0.4998 ppm	0.4869 ppm
Concentration per Run 2	0.4743 ppm	0.4652 ppm	0.4648 ppm	0.4737 ppm	0.4934 ppm	0.4986 ppm	0.4772 ppm
Concentration per Run 3	0.4721 ppm	0.4699 ppm	0.4728 ppm	0.4701 ppm	0.4971 ppm	0.4975 ppm	0.4700 ppm
Recovery Percentage 1	94.943 %	93.845 %	93.841 %	94.272 %	98.690 %	99.730 %	95.607 %
Concentration RSD	0.6 %	0.8 %	0.9 %	0.4 %	0.7 %	0.2 %	1.8 %

	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	0.4785 ppm	0.4975 ppm	0.4794 ppm	0.4868 ppm	0.5059 ppm	5.1455 ppm	0.5029 ppm
Concentration per Run 1	0.4820 ppm	0.5009 ppm	0.4822 ppm	0.4880 ppm	0.5088 ppm	5.1164 ppm	0.4953 ppm
Concentration per Run 2	0.4777 ppm	0.4968 ppm	0.4796 ppm	0.4869 ppm	0.5090 ppm	5.1292 ppm	0.5058 ppm
Concentration per Run 3	0.4758 ppm	0.4948 ppm	0.4765 ppm	0.4855 ppm	0.5000 ppm	5.1908 ppm	0.5075 ppm
Recovery Percentage 1	95.698 %	99.504 %	95.885 %	97.358 %	101.183 %	102.909 %	100.578 %
Concentration RSD	0.7 %	0.6 %	0.6 %	0.3 %	1.0 %	0.8 %	1.3 %

	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	0.4850 ppm	0.4751 ppm	0.4827 ppm	10.2190 ppm	0.4945 ppm	0.4834 ppm	0.4862 ppm
Concentration per Run 1	0.4857 ppm	0.4780 ppm	0.4810 ppm	10.1497 ppm	0.4969 ppm	0.4853 ppm	0.4875 ppm
Concentration per Run 2	0.4841 ppm	0.4757 ppm	0.4822 ppm	10.2049 ppm	0.4947 ppm	0.4810 ppm	0.4884 ppm
Concentration per Run 3	0.4851 ppm	0.4718 ppm	0.4851 ppm	10.3023 ppm	0.4919 ppm	0.4839 ppm	0.4828 ppm
Recovery Percentage 1	96.992 %	95.030 %	96.546 %	102.190 %	98.895 %	96.681 %	97.246 %
Concentration RSD	0.2 %	0.7 %	0.4 %	0.8 %	0.5 %	0.5 %	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	0.4812 ppm	5.3924 ppm	0.4989 ppm	0.5212 ppm	0.4831 ppm	0.4786 ppm	0.4867 ppm
Concentration per Run 1	0.4829 ppm	5.4066 ppm	0.5012 ppm	0.5190 ppm	0.4858 ppm	0.4793 ppm	0.4889 ppm
Concentration per Run 2	0.4766 ppm	5.3945 ppm	0.4989 ppm	0.5207 ppm	0.4821 ppm	0.4758 ppm	0.4873 ppm
Concentration per Run 3	0.4840 ppm	5.3760 ppm	0.4966 ppm	0.5238 ppm	0.4813 ppm	0.4806 ppm	0.4838 ppm
Recovery Percentage 1	96.232 %	102.712 %	99.773 %	104.241 %	96.616 %	95.713 %	97.331 %
Concentration RSD	0.8 %	0.3 %	0.5 %	0.5 %	0.5 %	0.5 %	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	0.4783 ppm	100.9622 %	101.1374 %	93.0304 %	95.8520 %	98.3802 %	95.5131 %
Concentration per Run 1	0.4813 ppm	100.8283 %	100.2764 %	93.0764 %	96.5175 %	97.5598 %	95.3649 %
Concentration per Run 2	0.4782 ppm	100.9570 %	100.9559 %	93.0954 %	96.0759 %	98.1010 %	95.9878 %
Concentration per Run 3	0.4755 ppm	101.1014 %	102.1801 %	92.9195 %	94.9626 %	99.4796 %	95.1865 %
Recovery Percentage 1	95.663 %						
Concentration RSD	0.6 %	0.1 %	1.0 %	0.1 %	0.8 %	1.0 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCB
Analysis started at: 12/18/2024 8:33:41 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	0.0000 ppm	-0.0069 ppm	0.0016 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0009 ppm
Concentration per Run 1	-0.0001 ppm	-0.0072 ppm	0.0010 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	-0.0071 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 3	-0.0001 ppm	-0.0063 ppm	0.0032 ppm	-0.0009 ppm	0.0000 ppm	0.0000 ppm	-0.0018 ppm
Recovery Percentage 1	-0.507 %	-6.855 %	32.314 %	-0.528 %	-0.080 %	0.428 %	-0.903 %
Concentration RSD	202.9 %	6.7 %	84.5 %	405.2 %	30.6 %	21.9 %	94.6 %

	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	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0038 ppm	0.0111 ppm	0.0003 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0001 ppm	-0.0001 ppm	0.0034 ppm	0.0111 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0001 ppm	-0.0002 ppm	0.0038 ppm	0.0083 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	-0.0001 ppm	-0.0001 ppm	0.0041 ppm	0.0139 ppm	0.0006 ppm
Recovery Percentage 1	0.911 %	1.441 %	0.016 %	-1.344 %	7.515 %	0.445 %	2.640 %
Concentration RSD	197.9 %	165.9 %	7,829.0 %	48.1 %	10.1 %	25.2 %	123.8 %

	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	-0.0007 ppm	0.0000 ppm	0.0033 ppm	-0.0020 ppm	0.0003 ppm	0.0008 ppm	0.0000 ppm
Concentration per Run 1	-0.0006 ppm	0.0001 ppm	0.0033 ppm	-0.0032 ppm	0.0002 ppm	0.0010 ppm	-0.0006 ppm
Concentration per Run 2	0.0010 ppm	0.0000 ppm	0.0031 ppm	-0.0034 ppm	0.0000 ppm	0.0005 ppm	0.0008 ppm
Concentration per Run 3	-0.0025 ppm	-0.0001 ppm	0.0035 ppm	0.0007 ppm	0.0005 ppm	0.0008 ppm	-0.0003 ppm
Recovery Percentage 1	-0.701 %	0.209 %	6.591 %	-0.098 %	1.078 %	7.732 %	-0.092 %
Concentration RSD	245.4 %	509.3 %	5.2 %	118.2 %	94.9 %	28.7 %	1,620.2 %

	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	0.0035 ppm	0.0004 ppm	0.0001 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 1	0.0003 ppm	0.0043 ppm	-0.0002 ppm	0.0001 ppm	0.0004 ppm	0.0007 ppm	0.0001 ppm
Concentration per Run 2	-0.0003 ppm	0.0031 ppm	0.0005 ppm	0.0001 ppm	0.0005 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 3	0.0020 ppm	0.0030 ppm	0.0010 ppm	0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0001 ppm
Recovery Percentage 1	6.663 %	0.694 %	0.857 %	0.935 %	3.533 %	0.947 %	0.024 %
Concentration RSD	184.5 %	21.8 %	148.9 %	36.1 %	50.4 %	249.5 %	6,717.6 %

	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	0.0002 ppm	99.7292 %	100.0498 %	94.8622 %	98.7717 %	99.3730 %	97.0626 %
Concentration per Run 1	0.0002 ppm	99.0269 %	99.6863 %	94.5667 %	99.2379 %	99.0835 %	97.1804 %
Concentration per Run 2	0.0001 ppm	99.6237 %	99.7535 %	95.0048 %	98.7622 %	99.2911 %	97.0460 %
Concentration per Run 3	0.0002 ppm	100.5369 %	100.7097 %	95.0152 %	98.3152 %	99.7442 %	96.9614 %
Recovery Percentage 1	3.446 %						
Concentration RSD	40.8 %	0.8 %	0.6 %	0.3 %	0.5 %	0.3 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472693-05d4 WG2010517
Analysis started at: 12/18/2024 8:40:16 PM
Rack 2
Vial 54
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	10.9867 ppm	0.0098 ppm	0.0267 ppm	0.1314 ppm	0.0006 ppm	766.3605 ppm
Concentration per Run 1	-0.0001 ppm	10.9327 ppm	0.0102 ppm	0.0273 ppm	0.1306 ppm	0.0006 ppm	765.5713 ppm
Concentration per Run 2	-0.0003 ppm	10.9862 ppm	0.0096 ppm	0.0266 ppm	0.1315 ppm	0.0006 ppm	764.3727 ppm
Concentration per Run 3	-0.0005 ppm	11.0411 ppm	0.0096 ppm	0.0261 ppm	0.1320 ppm	0.0006 ppm	769.1373 ppm
Concentration RSD	62.9 %	0.5 %	3.3 %	2.2 %	0.6 %	2.0 %	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	-0.0040 ppm	0.0114 ppm	0.0212 ppm	0.0390 ppm	26.4374 ppm	2.4729 ppm	0.0618 ppm
Concentration per Run 1	-0.0039 ppm	0.0111 ppm	0.0213 ppm	0.0393 ppm	26.3506 ppm	2.4622 ppm	0.0647 ppm
Concentration per Run 2	-0.0040 ppm	0.0115 ppm	0.0213 ppm	0.0389 ppm	26.4336 ppm	2.4639 ppm	0.0629 ppm
Concentration per Run 3	-0.0040 ppm	0.0116 ppm	0.0212 ppm	0.0388 ppm	26.5279 ppm	2.4926 ppm	0.0578 ppm
Concentration RSD	1.7 %	2.3 %	0.3 %	0.7 %	0.3 %	0.7 %	5.8 %

	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	72.5186 ppm	0.5531 ppm	0.0025 ppm	0.8026 ppm	0.0278 ppm	0.0361 ppm	-0.0004 ppm
Concentration per Run 1	72.5919 ppm	0.5542 ppm	0.0024 ppm	0.7891 ppm	0.0272 ppm	0.0375 ppm	0.0001 ppm
Concentration per Run 2	72.9228 ppm	0.5506 ppm	0.0025 ppm	0.8139 ppm	0.0284 ppm	0.0346 ppm	-0.0016 ppm
Concentration per Run 3	72.0411 ppm	0.5545 ppm	0.0027 ppm	0.8048 ppm	0.0279 ppm	0.0363 ppm	0.0004 ppm
Concentration RSD	0.6 %	0.4 %	6.6 %	1.6 %	2.2 %	4.0 %	304.2 %

	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	0.0035 ppm	3.2744 ppm	0.0435 ppm	1.4161 ppm	0.1151 ppm	-0.0008 ppm	0.0251 ppm
Concentration per Run 1	0.0018 ppm	3.2891 ppm	0.0433 ppm	1.4125 ppm	0.1197 ppm	-0.0018 ppm	0.0253 ppm
Concentration per Run 2	0.0044 ppm	3.3072 ppm	0.0426 ppm	1.4147 ppm	0.1118 ppm	-0.0003 ppm	0.0252 ppm
Concentration per Run 3	0.0042 ppm	3.2269 ppm	0.0445 ppm	1.4213 ppm	0.1139 ppm	-0.0003 ppm	0.0249 ppm
Concentration RSD	42.7 %	1.3 %	2.2 %	0.3 %	3.6 %	110.7 %	0.8 %

	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	0.1657 ppm	89.1894 %	95.0946 %	70.1006 %	86.2420 %	96.3429 %	84.1936 %
Concentration per Run 1	0.1668 ppm	89.2596 %	95.0965 %	70.1618 %	86.3989 %	96.2572 %	84.3574 %
Concentration per Run 2	0.1667 ppm	88.7543 %	95.3798 %	70.4013 %	85.6857 %	96.7895 %	84.5669 %
Concentration per Run 3	0.1636 ppm	89.5544 %	94.8076 %	69.7387 %	86.6415 %	95.9821 %	83.6566 %
Concentration RSD	1.1 %	0.5 %	0.3 %	0.5 %	0.6 %	0.4 %	0.6 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010517-3d4 WG2010517
Analysis started at: 12/18/2024 8:45:02 PM
Rack 2
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	0.0235 ppm	14.6717 ppm	0.0710 ppm	0.4861 ppm	1.0670 ppm	0.0238 ppm	697.6355 ppm
Concentration per Run 1	0.0235 ppm	14.7826 ppm	0.0707 ppm	0.4881 ppm	1.0632 ppm	0.0238 ppm	698.7467 ppm
Concentration per Run 2	0.0235 ppm	14.6019 ppm	0.0693 ppm	0.4842 ppm	1.0711 ppm	0.0238 ppm	695.4761 ppm
Concentration per Run 3	0.0235 ppm	14.6306 ppm	0.0730 ppm	0.4859 ppm	1.0669 ppm	0.0238 ppm	698.6835 ppm
Concentration RSD	0.1 %	0.7 %	2.6 %	0.4 %	0.4 %	0.0 %	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	0.0179 ppm	0.2186 ppm	0.1126 ppm	0.1684 ppm	25.9797 ppm	9.0582 ppm	0.0680 ppm
Concentration per Run 1	0.0177 ppm	0.2174 ppm	0.1125 ppm	0.1689 ppm	25.9803 ppm	9.0514 ppm	0.0691 ppm
Concentration per Run 2	0.0181 ppm	0.2195 ppm	0.1125 ppm	0.1675 ppm	25.9445 ppm	9.0987 ppm	0.0677 ppm
Concentration per Run 3	0.0179 ppm	0.2190 ppm	0.1126 ppm	0.1689 ppm	26.0144 ppm	9.0245 ppm	0.0671 ppm
Concentration RSD	1.1 %	0.5 %	0.1 %	0.5 %	0.1 %	0.4 %	1.5 %

	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	94.5727 ppm	0.8691 ppm	0.4834 ppm	6.8657 ppm	0.2314 ppm	0.3051 ppm	0.2189 ppm
Concentration per Run 1	94.6810 ppm	0.8694 ppm	0.4792 ppm	6.8891 ppm	0.2308 ppm	0.3036 ppm	0.2217 ppm
Concentration per Run 2	94.6147 ppm	0.8678 ppm	0.4833 ppm	6.8688 ppm	0.2320 ppm	0.3054 ppm	0.2171 ppm
Concentration per Run 3	94.4222 ppm	0.8699 ppm	0.4878 ppm	6.8393 ppm	0.2315 ppm	0.3063 ppm	0.2178 ppm
Concentration RSD	0.1 %	0.1 %	0.9 %	0.4 %	0.3 %	0.4 %	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	0.0596 ppm	5.0281 ppm	0.4394 ppm	1.7706 ppm	0.5628 ppm	0.0543 ppm	0.2584 ppm
Concentration per Run 1	0.0591 ppm	4.9999 ppm	0.4392 ppm	1.7690 ppm	0.5636 ppm	0.0540 ppm	0.2587 ppm
Concentration per Run 2	0.0597 ppm	5.0296 ppm	0.4402 ppm	1.7727 ppm	0.5620 ppm	0.0543 ppm	0.2578 ppm
Concentration per Run 3	0.0599 ppm	5.0546 ppm	0.4389 ppm	1.7700 ppm	0.5627 ppm	0.0548 ppm	0.2587 ppm
Concentration RSD	0.7 %	0.5 %	0.2 %	0.1 %	0.1 %	0.7 %	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	0.3798 ppm	88.0932 %	95.3124 %	68.1637 %	86.4161 %	97.2222 %	84.1595 %
Concentration per Run 1	0.3799 ppm	87.9389 %	95.5662 %	68.4830 %	86.7879 %	97.3173 %	84.6068 %
Concentration per Run 2	0.3797 ppm	88.0952 %	94.9271 %	68.3550 %	86.2544 %	97.4429 %	84.2378 %
Concentration per Run 3	0.3800 ppm	88.2455 %	95.4440 %	67.6530 %	86.2060 %	96.9064 %	83.6340 %
Concentration RSD	0.0 %	0.2 %	0.4 %	0.7 %	0.4 %	0.3 %	0.6 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010517-4d4 WG2010517
Analysis started at: 12/18/2024 8:49:29 PM
Rack 2
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	0.0239 ppm	12.0418 ppm	0.0668 ppm	0.4665 ppm	1.0530 ppm	0.0240 ppm	733.5825 ppm
Concentration per Run 1	0.0241 ppm	12.1252 ppm	0.0674 ppm	0.4669 ppm	1.0499 ppm	0.0240 ppm	735.6927 ppm
Concentration per Run 2	0.0241 ppm	12.0975 ppm	0.0670 ppm	0.4644 ppm	1.0593 ppm	0.0242 ppm	736.8754 ppm
Concentration per Run 3	0.0234 ppm	11.9029 ppm	0.0659 ppm	0.4682 ppm	1.0498 ppm	0.0239 ppm	728.1795 ppm
Concentration RSD	1.7 %	1.0 %	1.2 %	0.4 %	0.5 %	0.6 %	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	0.0178 ppm	0.2176 ppm	0.1088 ppm	0.1578 ppm	20.5033 ppm	8.4653 ppm	0.0611 ppm
Concentration per Run 1	0.0180 ppm	0.2190 ppm	0.1098 ppm	0.1583 ppm	20.4633 ppm	8.4462 ppm	0.0614 ppm
Concentration per Run 2	0.0177 ppm	0.2161 ppm	0.1082 ppm	0.1575 ppm	20.6191 ppm	8.5029 ppm	0.0636 ppm
Concentration per Run 3	0.0178 ppm	0.2176 ppm	0.1084 ppm	0.1577 ppm	20.4274 ppm	8.4470 ppm	0.0581 ppm
Concentration RSD	0.9 %	0.7 %	0.8 %	0.3 %	0.5 %	0.4 %	4.5 %

	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	99.4496 ppm	0.7930 ppm	0.4676 ppm	6.6074 ppm	0.2280 ppm	0.2840 ppm	0.2254 ppm
Concentration per Run 1	100.2839 ppm	0.7942 ppm	0.4673 ppm	6.6569 ppm	0.2298 ppm	0.2863 ppm	0.2254 ppm
Concentration per Run 2	98.9979 ppm	0.7952 ppm	0.4644 ppm	6.6429 ppm	0.2265 ppm	0.2809 ppm	0.2236 ppm
Concentration per Run 3	99.0670 ppm	0.7896 ppm	0.4710 ppm	6.5223 ppm	0.2278 ppm	0.2848 ppm	0.2271 ppm
Concentration RSD	0.7 %	0.4 %	0.7 %	1.1 %	0.7 %	1.0 %	0.8 %

	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	0.0569 ppm	4.8212 ppm	0.4207 ppm	1.6742 ppm	0.5387 ppm	0.0539 ppm	0.2652 ppm
Concentration per Run 1	0.0569 ppm	4.8377 ppm	0.4234 ppm	1.6653 ppm	0.5428 ppm	0.0529 ppm	0.2669 ppm
Concentration per Run 2	0.0561 ppm	4.8209 ppm	0.4163 ppm	1.6865 ppm	0.5340 ppm	0.0528 ppm	0.2641 ppm
Concentration per Run 3	0.0577 ppm	4.8049 ppm	0.4225 ppm	1.6708 ppm	0.5392 ppm	0.0560 ppm	0.2646 ppm
Concentration RSD	1.3 %	0.3 %	0.9 %	0.7 %	0.8 %	3.4 %	0.6 %

	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	0.3391 ppm	87.3680 %	94.6868 %	67.6789 %	85.0949 %	95.6026 %	82.6554 %
Concentration per Run 1	0.3437 ppm	86.7529 %	94.7028 %	67.2121 %	85.0384 %	95.5995 %	82.3625 %
Concentration per Run 2	0.3357 ppm	87.6014 %	94.2570 %	68.1064 %	85.2696 %	95.3804 %	83.0734 %
Concentration per Run 3	0.3380 ppm	87.7498 %	95.1006 %	67.7182 %	84.9768 %	95.8279 %	82.5303 %
Concentration RSD	1.2 %	0.6 %	0.4 %	0.7 %	0.2 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010517-5d4 WG2010517
Analysis started at: 12/18/2024 8:53:57 PM
Rack 2
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	0.0521 ppm	12.8054 ppm	0.1343 ppm	0.9794 ppm	2.2009 ppm	0.0522 ppm	746.0131 ppm
Concentration per Run 1	0.0523 ppm	12.6923 ppm	0.1347 ppm	0.9805 ppm	2.1966 ppm	0.0521 ppm	744.7715 ppm
Concentration per Run 2	0.0521 ppm	12.8041 ppm	0.1330 ppm	0.9847 ppm	2.2007 ppm	0.0520 ppm	744.2185 ppm
Concentration per Run 3	0.0519 ppm	12.9198 ppm	0.1353 ppm	0.9731 ppm	2.2053 ppm	0.0523 ppm	749.0494 ppm
Concentration RSD	0.3 %	0.9 %	0.9 %	0.6 %	0.2 %	0.3 %	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	0.0429 ppm	0.4716 ppm	0.2122 ppm	0.3082 ppm	26.4185 ppm	14.7211 ppm	0.0518 ppm
Concentration per Run 1	0.0436 ppm	0.4737 ppm	0.2133 ppm	0.3099 ppm	26.4375 ppm	14.5680 ppm	0.0515 ppm
Concentration per Run 2	0.0426 ppm	0.4727 ppm	0.2121 ppm	0.3098 ppm	26.4263 ppm	14.7257 ppm	0.0483 ppm
Concentration per Run 3	0.0425 ppm	0.4683 ppm	0.2111 ppm	0.3048 ppm	26.3918 ppm	14.8697 ppm	0.0556 ppm
Concentration RSD	1.4 %	0.6 %	0.5 %	0.9 %	0.1 %	1.0 %	7.0 %

	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	80.1801 ppm	1.0156 ppm	1.0038 ppm	13.1360 ppm	0.4863 ppm	0.5931 ppm	0.4596 ppm
Concentration per Run 1	80.4776 ppm	1.0146 ppm	1.0004 ppm	12.9927 ppm	0.4881 ppm	0.5928 ppm	0.4575 ppm
Concentration per Run 2	79.9660 ppm	1.0136 ppm	1.0084 ppm	13.0912 ppm	0.4859 ppm	0.5922 ppm	0.4606 ppm
Concentration per Run 3	80.0966 ppm	1.0187 ppm	1.0026 ppm	13.3240 ppm	0.4847 ppm	0.5941 ppm	0.4607 ppm
Concentration RSD	0.3 %	0.3 %	0.4 %	1.3 %	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	0.1265 ppm	4.0845 ppm	0.9637 ppm	2.4267 ppm	1.1387 ppm	0.1199 ppm	0.5437 ppm
Concentration per Run 1	0.1244 ppm	4.1163 ppm	0.9705 ppm	2.4210 ppm	1.1470 ppm	0.1198 ppm	0.5448 ppm
Concentration per Run 2	0.1275 ppm	4.0989 ppm	0.9607 ppm	2.4238 ppm	1.1387 ppm	0.1195 ppm	0.5445 ppm
Concentration per Run 3	0.1276 ppm	4.0384 ppm	0.9599 ppm	2.4352 ppm	1.1304 ppm	0.1204 ppm	0.5418 ppm
Concentration RSD	1.4 %	1.0 %	0.6 %	0.3 %	0.7 %	0.4 %	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	0.6122 ppm	87.4183 %	94.6571 %	66.6110 %	85.1223 %	95.5674 %	82.5427 %
Concentration per Run 1	0.6168 ppm	86.9396 %	94.8563 %	66.5810 %	85.1217 %	95.5547 %	82.4021 %
Concentration per Run 2	0.6082 ppm	87.4923 %	94.8044 %	66.8943 %	85.1321 %	95.6289 %	82.9382 %
Concentration per Run 3	0.6117 ppm	87.8230 %	94.3105 %	66.3577 %	85.1131 %	95.5187 %	82.2877 %
Concentration RSD	0.7 %	0.5 %	0.3 %	0.4 %	0.0 %	0.1 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010517-6d20 WG2010517
Analysis started at: 12/18/2024 8:58:24 PM
Rack 2
Vial 58
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	2.0620 ppm	0.0030 ppm	0.0053 ppm	0.0255 ppm	0.0001 ppm	160.3311 ppm
Concentration per Run 1	-0.0003 ppm	2.0614 ppm	0.0024 ppm	0.0054 ppm	0.0256 ppm	0.0001 ppm	160.8958 ppm
Concentration per Run 2	-0.0001 ppm	2.0724 ppm	0.0043 ppm	0.0050 ppm	0.0255 ppm	0.0001 ppm	160.4201 ppm
Concentration per Run 3	-0.0002 ppm	2.0522 ppm	0.0022 ppm	0.0055 ppm	0.0255 ppm	0.0001 ppm	159.6774 ppm
Concentration RSD	48.5 %	0.5 %	39.5 %	5.2 %	0.2 %	7.5 %	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	-0.0008 ppm	0.0027 ppm	0.0042 ppm	0.0073 ppm	5.3664 ppm	0.4831 ppm	0.0096 ppm
Concentration per Run 1	-0.0008 ppm	0.0026 ppm	0.0045 ppm	0.0076 ppm	5.3700 ppm	0.4868 ppm	0.0103 ppm
Concentration per Run 2	-0.0008 ppm	0.0029 ppm	0.0040 ppm	0.0072 ppm	5.3662 ppm	0.4744 ppm	0.0094 ppm
Concentration per Run 3	-0.0008 ppm	0.0026 ppm	0.0042 ppm	0.0071 ppm	5.3629 ppm	0.4881 ppm	0.0092 ppm
Concentration RSD	5.3 %	7.7 %	5.7 %	3.7 %	0.1 %	1.6 %	6.2 %

	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	15.3369 ppm	0.1101 ppm	0.0068 ppm	0.1567 ppm	0.0062 ppm	0.0074 ppm	0.0080 ppm
Concentration per Run 1	15.5617 ppm	0.1105 ppm	0.0070 ppm	0.1555 ppm	0.0059 ppm	0.0076 ppm	0.0079 ppm
Concentration per Run 2	15.2806 ppm	0.1097 ppm	0.0069 ppm	0.1586 ppm	0.0065 ppm	0.0074 ppm	0.0088 ppm
Concentration per Run 3	15.1683 ppm	0.1101 ppm	0.0064 ppm	0.1559 ppm	0.0064 ppm	0.0071 ppm	0.0075 ppm
Concentration RSD	1.3 %	0.4 %	4.1 %	1.1 %	5.5 %	3.6 %	8.1 %

	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	0.0004 ppm	0.6262 ppm	0.0101 ppm	0.2782 ppm	0.0225 ppm	-0.0004 ppm	0.0051 ppm
Concentration per Run 1	-0.0004 ppm	0.6362 ppm	0.0105 ppm	0.2757 ppm	0.0219 ppm	-0.0007 ppm	0.0051 ppm
Concentration per Run 2	0.0010 ppm	0.6293 ppm	0.0102 ppm	0.2790 ppm	0.0230 ppm	-0.0003 ppm	0.0051 ppm
Concentration per Run 3	0.0005 ppm	0.6130 ppm	0.0097 ppm	0.2798 ppm	0.0226 ppm	-0.0003 ppm	0.0052 ppm
Concentration RSD	199.6 %	1.9 %	4.2 %	0.8 %	2.5 %	56.8 %	0.7 %

	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	0.0360 ppm	94.7618 %	98.9024 %	82.3878 %	91.0753 %	97.2151 %	89.8300 %
Concentration per Run 1	0.0363 ppm	93.4731 %	98.5071 %	82.0126 %	90.9364 %	96.9236 %	89.8884 %
Concentration per Run 2	0.0361 ppm	94.6073 %	98.8598 %	82.2192 %	90.6945 %	97.3899 %	89.4793 %
Concentration per Run 3	0.0356 ppm	96.2049 %	99.3404 %	82.9315 %	91.5950 %	97.3319 %	90.1223 %
Concentration RSD	1.0 %	1.4 %	0.4 %	0.6 %	0.5 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472529-02d2 WG2010517
Analysis started at: 12/18/2024 9:02:52 PM
Rack 2
Vial 59
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	0.0009 ppm	265.1758 ppm	0.0173 ppm	0.1132 ppm	3.6272 ppm	0.0094 ppm	8.7849 ppm
Concentration per Run 1	0.0008 ppm	263.8327 ppm	0.0175 ppm	0.1131 ppm	3.6046 ppm	0.0094 ppm	8.7771 ppm
Concentration per Run 2	0.0010 ppm	265.2892 ppm	0.0174 ppm	0.1142 ppm	3.6353 ppm	0.0094 ppm	8.7715 ppm
Concentration per Run 3	0.0009 ppm	266.4056 ppm	0.0170 ppm	0.1124 ppm	3.6416 ppm	0.0095 ppm	8.8062 ppm
Concentration RSD	14.2 %	0.5 %	1.6 %	0.8 %	0.5 %	0.8 %	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	0.0838 ppm	0.2782 ppm	0.2629 ppm	243.5460 ppm	52.1249 ppm	0.3844 ppm
Concentration per Run 1	-0.0001 ppm	0.0842 ppm	0.2784 ppm	0.2635 ppm	243.7013 ppm	51.5257 ppm	0.3813 ppm
Concentration per Run 2	0.0000 ppm	0.0839 ppm	0.2794 ppm	0.2627 ppm	243.1814 ppm	52.5343 ppm	0.3856 ppm
Concentration per Run 3	0.0000 ppm	0.0831 ppm	0.2769 ppm	0.2624 ppm	243.7553 ppm	52.3148 ppm	0.3864 ppm
Concentration RSD	166.0 %	0.7 %	0.4 %	0.2 %	0.1 %	1.0 %	0.7 %

	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	63.2014 ppm	2.6059 ppm	0.0008 ppm	7.5614 ppm	0.1778 ppm	0.0893 ppm	0.0013 ppm
Concentration per Run 1	63.3384 ppm	2.6003 ppm	0.0002 ppm	7.4869 ppm	0.1785 ppm	0.0884 ppm	0.0015 ppm
Concentration per Run 2	63.6494 ppm	2.6029 ppm	0.0012 ppm	7.5812 ppm	0.1785 ppm	0.0890 ppm	0.0012 ppm
Concentration per Run 3	62.6166 ppm	2.6145 ppm	0.0010 ppm	7.6160 ppm	0.1764 ppm	0.0904 ppm	0.0013 ppm
Concentration RSD	0.8 %	0.3 %	63.1 %	0.9 %	0.7 %	1.1 %	11.8 %

	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	-0.0020 ppm	0.7486 ppm	0.0128 ppm	0.4494 ppm	6.5706 ppm	0.0099 ppm	0.3305 ppm
Concentration per Run 1	-0.0033 ppm	0.7464 ppm	0.0129 ppm	0.4462 ppm	6.5797 ppm	0.0094 ppm	0.3307 ppm
Concentration per Run 2	0.0002 ppm	0.7453 ppm	0.0123 ppm	0.4523 ppm	6.5848 ppm	0.0094 ppm	0.3317 ppm
Concentration per Run 3	-0.0030 ppm	0.7541 ppm	0.0131 ppm	0.4496 ppm	6.5474 ppm	0.0110 ppm	0.3292 ppm
Concentration RSD	93.9 %	0.6 %	3.4 %	0.7 %	0.3 %	9.3 %	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	0.5246 ppm	102.3988 %	107.3151 %	72.4021 %	100.4303 %	109.6279 %	100.8244 %
Concentration per Run 1	0.5250 ppm	102.3567 %	107.6659 %	72.5218 %	100.6252 %	109.9100 %	101.1084 %
Concentration per Run 2	0.5312 ppm	102.1319 %	107.5661 %	72.8442 %	100.3675 %	109.7365 %	101.0820 %
Concentration per Run 3	0.5175 ppm	102.7078 %	106.7134 %	71.8405 %	100.2981 %	109.2373 %	100.2830 %
Concentration RSD	1.3 %	0.3 %	0.5 %	0.7 %	0.2 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472529-03d2 WG2010517
Analysis started at: 12/18/2024 9:07:20 PM
Rack 2
Vial 60
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	469.4671 ppm	0.0198 ppm	0.3125 ppm	4.1632 ppm	0.0196 ppm	14.8182 ppm
Concentration per Run 1	0.0006 ppm	469.3054 ppm	0.0203 ppm	0.3127 ppm	4.1444 ppm	0.0195 ppm	14.8137 ppm
Concentration per Run 2	0.0018 ppm	469.2152 ppm	0.0185 ppm	0.3130 ppm	4.1535 ppm	0.0196 ppm	14.8413 ppm
Concentration per Run 3	0.0000 ppm	469.8805 ppm	0.0207 ppm	0.3120 ppm	4.1916 ppm	0.0198 ppm	14.7996 ppm
Concentration RSD	118.7 %	0.1 %	5.9 %	0.2 %	0.6 %	0.8 %	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	0.1616 ppm	0.5057 ppm	0.1764 ppm	365.9326 ppm	105.0492 ppm	0.8239 ppm
Concentration per Run 1	-0.0004 ppm	0.1622 ppm	0.5069 ppm	0.1765 ppm	366.4696 ppm	104.4566 ppm	0.8209 ppm
Concentration per Run 2	0.0004 ppm	0.1613 ppm	0.5063 ppm	0.1771 ppm	367.5299 ppm	105.1626 ppm	0.8220 ppm
Concentration per Run 3	-0.0002 ppm	0.1614 ppm	0.5040 ppm	0.1755 ppm	363.7983 ppm	105.5283 ppm	0.8289 ppm
Concentration RSD	608.6 %	0.3 %	0.3 %	0.4 %	0.5 %	0.5 %	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	112.7164 ppm	8.4535 ppm	0.0006 ppm	71.8127 ppm	0.3621 ppm	0.1742 ppm	-0.0022 ppm
Concentration per Run 1	113.0030 ppm	8.4643 ppm	0.0008 ppm	71.5263 ppm	0.3639 ppm	0.1759 ppm	-0.0019 ppm
Concentration per Run 2	112.7134 ppm	8.4442 ppm	0.0007 ppm	71.9066 ppm	0.3622 ppm	0.1746 ppm	-0.0021 ppm
Concentration per Run 3	112.4329 ppm	8.4520 ppm	0.0005 ppm	72.0053 ppm	0.3603 ppm	0.1721 ppm	-0.0025 ppm
Concentration RSD	0.3 %	0.1 %	22.8 %	0.4 %	0.5 %	1.1 %	13.4 %

	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	-0.0046 ppm	5.0853 ppm	0.1672 ppm	0.8808 ppm	12.6485 ppm	0.0118 ppm	0.4504 ppm
Concentration per Run 1	-0.0083 ppm	5.0827 ppm	0.1660 ppm	0.8766 ppm	12.6811 ppm	0.0106 ppm	0.4530 ppm
Concentration per Run 2	-0.0009 ppm	5.1020 ppm	0.1680 ppm	0.8786 ppm	12.6472 ppm	0.0134 ppm	0.4472 ppm
Concentration per Run 3	-0.0045 ppm	5.0714 ppm	0.1677 ppm	0.8871 ppm	12.6171 ppm	0.0115 ppm	0.4510 ppm
Concentration RSD	81.5 %	0.3 %	0.6 %	0.6 %	0.3 %	12.3 %	0.7 %

	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	0.9181 ppm	107.5463 %	116.4230 %	62.2756 %	107.3193 %	121.8371 %	108.5532 %
Concentration per Run 1	0.9195 ppm	107.3078 %	115.9576 %	61.9498 %	107.4184 %	121.4908 %	108.5316 %
Concentration per Run 2	0.9187 ppm	107.6219 %	116.1404 %	62.4709 %	106.7543 %	121.3947 %	108.4370 %
Concentration per Run 3	0.9160 ppm	107.7092 %	117.1710 %	62.4060 %	107.7852 %	122.6258 %	108.6910 %
Concentration RSD	0.2 %	0.2 %	0.6 %	0.5 %	0.5 %	0.6 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472529-04d2 WG2010517
Analysis started at: 12/18/2024 9:11:48 PM
Rack 3
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	0.0009 ppm	400.3036 ppm	0.0253 ppm	0.2071 ppm	3.8438 ppm	0.0162 ppm	10.6496 ppm
Concentration per Run 1	0.0010 ppm	397.0099 ppm	0.0261 ppm	0.2093 ppm	3.8142 ppm	0.0161 ppm	10.6203 ppm
Concentration per Run 2	0.0001 ppm	401.5501 ppm	0.0254 ppm	0.2025 ppm	3.8473 ppm	0.0163 ppm	10.6751 ppm
Concentration per Run 3	0.0017 ppm	402.3506 ppm	0.0243 ppm	0.2093 ppm	3.8698 ppm	0.0162 ppm	10.6534 ppm
Concentration RSD	88.7 %	0.7 %	3.7 %	1.9 %	0.7 %	0.5 %	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	0.1445 ppm	0.4511 ppm	0.3493 ppm	368.6487 ppm	86.7770 ppm	0.6866 ppm
Concentration per Run 1	0.0003 ppm	0.1447 ppm	0.4510 ppm	0.3495 ppm	367.7682 ppm	85.7516 ppm	0.6802 ppm
Concentration per Run 2	-0.0001 ppm	0.1441 ppm	0.4511 ppm	0.3478 ppm	368.7064 ppm	87.4127 ppm	0.6888 ppm
Concentration per Run 3	0.0002 ppm	0.1448 ppm	0.4513 ppm	0.3506 ppm	369.4715 ppm	87.1669 ppm	0.6908 ppm
Concentration RSD	160.3 %	0.3 %	0.0 %	0.4 %	0.2 %	1.0 %	0.8 %

	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	102.6888 ppm	9.0177 ppm	0.0007 ppm	24.3376 ppm	0.3005 ppm	0.1638 ppm	-0.0015 ppm
Concentration per Run 1	103.0757 ppm	8.9776 ppm	0.0011 ppm	24.0265 ppm	0.3024 ppm	0.1629 ppm	-0.0029 ppm
Concentration per Run 2	102.4142 ppm	9.0244 ppm	0.0001 ppm	24.5191 ppm	0.3002 ppm	0.1637 ppm	-0.0024 ppm
Concentration per Run 3	102.5764 ppm	9.0511 ppm	0.0010 ppm	24.4671 ppm	0.2990 ppm	0.1648 ppm	0.0007 ppm
Concentration RSD	0.3 %	0.4 %	76.0 %	1.1 %	0.6 %	0.6 %	130.3 %

	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	-0.0044 ppm	3.3781 ppm	0.0207 ppm	0.5022 ppm	12.8453 ppm	0.0123 ppm	0.5979 ppm
Concentration per Run 1	-0.0036 ppm	3.3928 ppm	0.0213 ppm	0.4979 ppm	12.8622 ppm	0.0142 ppm	0.5991 ppm
Concentration per Run 2	-0.0047 ppm	3.3660 ppm	0.0201 ppm	0.5032 ppm	12.8138 ppm	0.0102 ppm	0.5994 ppm
Concentration per Run 3	-0.0048 ppm	3.3755 ppm	0.0207 ppm	0.5054 ppm	12.8599 ppm	0.0125 ppm	0.5953 ppm
Concentration RSD	15.4 %	0.4 %	2.8 %	0.8 %	0.2 %	16.2 %	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	0.7315 ppm	105.9573 %	113.3226 %	61.7651 %	120.2887 %	135.2680 %	121.2711 %
Concentration per Run 1	0.7322 ppm	105.8195 %	113.7775 %	61.8101 %	120.1962 %	135.2650 %	121.1798 %
Concentration per Run 2	0.7310 ppm	105.8303 %	113.3543 %	61.6705 %	120.3197 %	135.3683 %	121.4066 %
Concentration per Run 3	0.7312 ppm	106.2220 %	112.8360 %	61.8147 %	120.3501 %	135.1708 %	121.2269 %
Concentration RSD	0.1 %	0.2 %	0.4 %	0.1 %	0.1 %	0.1 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472530-01d2 WG2010517
Analysis started at: 12/18/2024 9:16:17 PM
Rack 3
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	0.0007 ppm	100.5475 ppm	0.0261 ppm	0.0407 ppm	0.4994 ppm	0.0035 ppm	335.3935 ppm
Concentration per Run 1	0.0007 ppm	100.6408 ppm	0.0266 ppm	0.0413 ppm	0.5012 ppm	0.0035 ppm	334.8185 ppm
Concentration per Run 2	0.0007 ppm	100.9536 ppm	0.0249 ppm	0.0395 ppm	0.5003 ppm	0.0036 ppm	337.6107 ppm
Concentration per Run 3	0.0007 ppm	100.0480 ppm	0.0267 ppm	0.0415 ppm	0.4966 ppm	0.0034 ppm	333.7513 ppm
Concentration RSD	6.2 %	0.5 %	3.8 %	2.7 %	0.5 %	2.5 %	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	-0.0009 ppm	0.0603 ppm	0.1886 ppm	0.2254 ppm	191.5979 ppm	10.5151 ppm	0.1203 ppm
Concentration per Run 1	-0.0007 ppm	0.0616 ppm	0.1892 ppm	0.2261 ppm	192.0699 ppm	10.6625 ppm	0.1214 ppm
Concentration per Run 2	-0.0009 ppm	0.0597 ppm	0.1887 ppm	0.2254 ppm	191.9404 ppm	10.4965 ppm	0.1212 ppm
Concentration per Run 3	-0.0010 ppm	0.0597 ppm	0.1881 ppm	0.2247 ppm	190.7834 ppm	10.3862 ppm	0.1183 ppm
Concentration RSD	16.2 %	1.8 %	0.3 %	0.3 %	0.4 %	1.3 %	1.4 %

	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	43.1612 ppm	2.7112 ppm	0.0083 ppm	4.0399 ppm	0.1344 ppm	0.2590 ppm	0.0012 ppm
Concentration per Run 1	43.4714 ppm	2.7061 ppm	0.0091 ppm	4.0571 ppm	0.1339 ppm	0.2584 ppm	0.0023 ppm
Concentration per Run 2	43.0339 ppm	2.7227 ppm	0.0077 ppm	4.0619 ppm	0.1355 ppm	0.2592 ppm	0.0025 ppm
Concentration per Run 3	42.9784 ppm	2.7049 ppm	0.0081 ppm	4.0006 ppm	0.1338 ppm	0.2593 ppm	-0.0013 ppm
Concentration RSD	0.6 %	0.4 %	9.0 %	0.8 %	0.7 %	0.2 %	185.2 %

	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	-0.0004 ppm	7.2257 ppm	0.0118 ppm	2.1183 ppm	4.1523 ppm	0.0025 ppm	0.3079 ppm
Concentration per Run 1	-0.0003 ppm	7.2735 ppm	0.0120 ppm	2.1281 ppm	4.1750 ppm	0.0045 ppm	0.3092 ppm
Concentration per Run 2	-0.0012 ppm	7.1944 ppm	0.0109 ppm	2.1218 ppm	4.1419 ppm	0.0023 ppm	0.3072 ppm
Concentration per Run 3	0.0002 ppm	7.2093 ppm	0.0125 ppm	2.1050 ppm	4.1399 ppm	0.0008 ppm	0.3073 ppm
Concentration RSD	179.0 %	0.6 %	7.0 %	0.6 %	0.5 %	73.5 %	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	0.4470 ppm	97.3625 %	102.8460 %	70.5137 %	111.0689 %	121.9559 %	108.5064 %
Concentration per Run 1	0.4507 ppm	96.7765 %	102.6990 %	70.2797 %	110.4182 %	121.9699 %	108.4934 %
Concentration per Run 2	0.4430 ppm	97.7109 %	102.1798 %	70.4355 %	111.5206 %	121.3682 %	108.5843 %
Concentration per Run 3	0.4474 ppm	97.6003 %	103.6594 %	70.8260 %	111.2678 %	122.5297 %	108.4413 %
Concentration RSD	0.9 %	0.5 %	0.7 %	0.4 %	0.5 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472530-02d2 WG2010517
Analysis started at: 12/18/2024 9:20:45 PM
Rack 3
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	0.0017 ppm	83.4198 ppm	0.0596 ppm	0.0442 ppm	0.6920 ppm	0.0039 ppm	257.2726 ppm
Concentration per Run 1	0.0021 ppm	83.5416 ppm	0.0587 ppm	0.0452 ppm	0.6880 ppm	0.0039 ppm	259.2203 ppm
Concentration per Run 2	0.0016 ppm	82.9652 ppm	0.0590 ppm	0.0435 ppm	0.6918 ppm	0.0039 ppm	257.8348 ppm
Concentration per Run 3	0.0015 ppm	83.7525 ppm	0.0610 ppm	0.0439 ppm	0.6963 ppm	0.0039 ppm	254.7628 ppm
Concentration RSD	15.9 %	0.5 %	2.1 %	2.0 %	0.6 %	0.9 %	0.9 %

	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	0.0007 ppm	0.0526 ppm	0.2057 ppm	0.3719 ppm	144.4009 ppm	5.3009 ppm	0.1275 ppm
Concentration per Run 1	0.0007 ppm	0.0535 ppm	0.2068 ppm	0.3747 ppm	144.4462 ppm	5.2592 ppm	0.1268 ppm
Concentration per Run 2	0.0006 ppm	0.0520 ppm	0.2052 ppm	0.3707 ppm	144.8636 ppm	5.2503 ppm	0.1260 ppm
Concentration per Run 3	0.0008 ppm	0.0524 ppm	0.2050 ppm	0.3702 ppm	143.8929 ppm	5.3931 ppm	0.1297 ppm
Concentration RSD	15.6 %	1.4 %	0.5 %	0.7 %	0.3 %	1.5 %	1.5 %

	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	39.6983 ppm	2.9795 ppm	0.0054 ppm	2.7980 ppm	0.1108 ppm	0.6964 ppm	0.0039 ppm
Concentration per Run 1	39.9868 ppm	2.9953 ppm	0.0056 ppm	2.7752 ppm	0.1123 ppm	0.6956 ppm	0.0044 ppm
Concentration per Run 2	39.4394 ppm	2.9808 ppm	0.0052 ppm	2.7727 ppm	0.1100 ppm	0.6953 ppm	0.0022 ppm
Concentration per Run 3	39.6686 ppm	2.9623 ppm	0.0052 ppm	2.8460 ppm	0.1101 ppm	0.6985 ppm	0.0050 ppm
Concentration RSD	0.7 %	0.6 %	4.8 %	1.5 %	1.2 %	0.3 %	37.7 %

	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	0.0055 ppm	5.7007 ppm	0.0283 ppm	0.6343 ppm	2.9524 ppm	0.0006 ppm	0.3458 ppm
Concentration per Run 1	0.0056 ppm	5.7012 ppm	0.0296 ppm	0.6337 ppm	2.9670 ppm	0.0008 ppm	0.3469 ppm
Concentration per Run 2	0.0044 ppm	5.6918 ppm	0.0277 ppm	0.6329 ppm	2.9437 ppm	0.0004 ppm	0.3448 ppm
Concentration per Run 3	0.0064 ppm	5.7092 ppm	0.0275 ppm	0.6365 ppm	2.9465 ppm	0.0006 ppm	0.3457 ppm
Concentration RSD	17.8 %	0.2 %	4.2 %	0.3 %	0.4 %	27.4 %	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	0.6836 ppm	97.8260 %	102.2769 %	73.0213 %	106.8711 %	117.2408 %	104.7053 %
Concentration per Run 1	0.6943 ppm	97.2894 %	101.8585 %	72.9531 %	107.1881 %	116.5337 %	104.6998 %
Concentration per Run 2	0.6775 ppm	98.5373 %	102.0313 %	73.3261 %	107.4905 %	117.0225 %	104.9858 %
Concentration per Run 3	0.6790 ppm	97.6511 %	102.9408 %	72.7846 %	105.9348 %	118.1662 %	104.4304 %
Concentration RSD	1.4 %	0.7 %	0.6 %	0.4 %	0.8 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCV
Analysis started at: 12/18/2024 9:25:13 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	0.4702 ppm	0.4759 ppm	0.4669 ppm	0.4645 ppm	0.4898 ppm	0.4964 ppm	0.4859 ppm
Concentration per Run 1	0.4721 ppm	0.4690 ppm	0.4658 ppm	0.4678 ppm	0.4874 ppm	0.4925 ppm	0.4809 ppm
Concentration per Run 2	0.4699 ppm	0.4795 ppm	0.4709 ppm	0.4628 ppm	0.4900 ppm	0.4980 ppm	0.4897 ppm
Concentration per Run 3	0.4686 ppm	0.4792 ppm	0.4639 ppm	0.4629 ppm	0.4920 ppm	0.4988 ppm	0.4871 ppm
Recovery Percentage 1	94.046 %	95.181 %	93.370 %	92.897 %	97.961 %	99.288 %	97.180 %
Concentration RSD	0.4 %	1.3 %	0.8 %	0.6 %	0.5 %	0.7 %	0.9 %

	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	0.4688 ppm	0.4900 ppm	0.4738 ppm	0.4804 ppm	0.5099 ppm	5.2035 ppm	0.5081 ppm
Concentration per Run 1	0.4734 ppm	0.4946 ppm	0.4763 ppm	0.4819 ppm	0.5055 ppm	5.1310 ppm	0.4991 ppm
Concentration per Run 2	0.4632 ppm	0.4870 ppm	0.4715 ppm	0.4826 ppm	0.5116 ppm	5.2350 ppm	0.5106 ppm
Concentration per Run 3	0.4699 ppm	0.4884 ppm	0.4736 ppm	0.4768 ppm	0.5124 ppm	5.2446 ppm	0.5148 ppm
Recovery Percentage 1	93.768 %	97.999 %	94.757 %	96.084 %	101.972 %	104.071 %	101.629 %
Concentration RSD	1.1 %	0.8 %	0.5 %	0.7 %	0.7 %	1.2 %	1.6 %

	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	0.4778 ppm	0.4717 ppm	0.4751 ppm	10.1495 ppm	0.4877 ppm	0.4807 ppm	0.4821 ppm
Concentration per Run 1	0.4811 ppm	0.4674 ppm	0.4745 ppm	10.0739 ppm	0.4901 ppm	0.4838 ppm	0.4840 ppm
Concentration per Run 2	0.4741 ppm	0.4742 ppm	0.4724 ppm	10.1773 ppm	0.4846 ppm	0.4813 ppm	0.4812 ppm
Concentration per Run 3	0.4782 ppm	0.4733 ppm	0.4784 ppm	10.1973 ppm	0.4884 ppm	0.4770 ppm	0.4811 ppm
Recovery Percentage 1	95.561 %	94.335 %	95.024 %	101.495 %	97.542 %	96.140 %	96.419 %
Concentration RSD	0.7 %	0.8 %	0.6 %	0.7 %	0.6 %	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	0.4812 ppm	5.3281 ppm	0.4885 ppm	0.5207 ppm	0.4813 ppm	0.4748 ppm	0.4811 ppm
Concentration per Run 1	0.4790 ppm	5.3492 ppm	0.4955 ppm	0.5152 ppm	0.4827 ppm	0.4759 ppm	0.4834 ppm
Concentration per Run 2	0.4875 ppm	5.3122 ppm	0.4810 ppm	0.5221 ppm	0.4807 ppm	0.4759 ppm	0.4810 ppm
Concentration per Run 3	0.4772 ppm	5.3229 ppm	0.4891 ppm	0.5247 ppm	0.4803 ppm	0.4725 ppm	0.4790 ppm
Recovery Percentage 1	96.249 %	101.488 %	97.707 %	104.134 %	96.253 %	94.957 %	96.228 %
Concentration RSD	1.1 %	0.4 %	1.5 %	0.9 %	0.3 %	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	0.4696 ppm	101.0429 %	100.2349 %	92.5484 %	96.0579 %	98.1536 %	94.7867 %
Concentration per Run 1	0.4727 ppm	100.5918 %	100.8753 %	92.3318 %	95.8146 %	98.4242 %	95.0045 %
Concentration per Run 2	0.4637 ppm	101.2185 %	99.5600 %	92.5705 %	96.3708 %	97.3920 %	94.4891 %
Concentration per Run 3	0.4722 ppm	101.3184 %	100.2693 %	92.7430 %	95.9882 %	98.6445 %	94.8664 %
Recovery Percentage 1	93.914 %						
Concentration RSD	1.1 %	0.4 %	0.7 %	0.2 %	0.3 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCB
Analysis started at: 12/18/2024 9:29:40 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	-0.0037 ppm	0.0012 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm
Concentration per Run 1	-0.0004 ppm	-0.0028 ppm	0.0005 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 2	-0.0002 ppm	-0.0038 ppm	0.0021 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	-0.0044 ppm	0.0011 ppm	-0.0006 ppm	-0.0001 ppm	0.0000 ppm	0.0013 ppm
Recovery Percentage 1	-3.992 %	-3.661 %	24.954 %	-1.741 %	-0.374 %	0.469 %	0.510 %
Concentration RSD	94.6 %	22.5 %	63.9 %	19.7 %	68.0 %	9.2 %	128.8 %

	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	0.0002 ppm	-0.0002 ppm	-0.0002 ppm	0.0037 ppm	0.0138 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0001 ppm	-0.0001 ppm	0.0045 ppm	0.0148 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	-0.0002 ppm	-0.0002 ppm	0.0036 ppm	0.0046 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0029 ppm	0.0221 ppm	0.0000 ppm
Recovery Percentage 1	-0.077 %	2.116 %	-1.756 %	-1.825 %	7.324 %	0.553 %	2.049 %
Concentration RSD	342.7 %	117.7 %	33.1 %	38.6 %	21.1 %	63.5 %	68.3 %

	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	-0.0013 ppm	0.0001 ppm	0.0032 ppm	0.0015 ppm	0.0005 ppm	0.0006 ppm	0.0001 ppm
Concentration per Run 1	-0.0015 ppm	0.0000 ppm	0.0033 ppm	0.0020 ppm	0.0006 ppm	0.0006 ppm	0.0005 ppm
Concentration per Run 2	-0.0003 ppm	0.0001 ppm	0.0035 ppm	0.0013 ppm	0.0005 ppm	0.0007 ppm	-0.0020 ppm
Concentration per Run 3	-0.0022 ppm	0.0003 ppm	0.0029 ppm	0.0012 ppm	0.0005 ppm	0.0005 ppm	0.0019 ppm
Recovery Percentage 1	-1.339 %	1.484 %	6.486 %	0.076 %	2.101 %	6.174 %	0.250 %
Concentration RSD	68.9 %	83.9 %	9.1 %	28.0 %	14.4 %	17.4 %	1,583.5 %

	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	0.0009 ppm	0.0023 ppm	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0004 ppm	-0.0001 ppm
Concentration per Run 1	0.0008 ppm	0.0028 ppm	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0006 ppm	-0.0001 ppm
Concentration per Run 2	0.0015 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0008 ppm	-0.0001 ppm
Concentration per Run 3	0.0004 ppm	0.0037 ppm	-0.0001 ppm	0.0001 ppm	0.0002 ppm	-0.0002 ppm	-0.0002 ppm
Recovery Percentage 1	9.092 %	0.464 %	-0.098 %	0.652 %	3.132 %	1.841 %	-1.416 %
Concentration RSD	64.3 %	70.6 %	106.0 %	16.5 %	47.2 %	140.7 %	63.1 %

	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	0.0002 ppm	99.3133 %	99.9100 %	94.0810 %	98.2277 %	99.3247 %	96.3402 %
Concentration per Run 1	0.0002 ppm	98.5895 %	100.3563 %	93.8040 %	98.1191 %	99.9233 %	96.6357 %
Concentration per Run 2	0.0001 ppm	99.1162 %	99.9485 %	94.0961 %	98.1086 %	98.9884 %	96.4725 %
Concentration per Run 3	0.0002 ppm	100.2341 %	99.4253 %	94.3430 %	98.4555 %	99.0625 %	95.9123 %
Recovery Percentage 1	3.499 %						
Concentration RSD	57.9 %	0.8 %	0.5 %	0.3 %	0.2 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472530-03d2 WG2010517
Analysis started at: 12/18/2024 9:34:43 PM
Rack 3
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	0.0013 ppm	62.3253 ppm	0.0460 ppm	0.0427 ppm	0.5858 ppm	0.0028 ppm	419.5197 ppm
Concentration per Run 1	0.0011 ppm	62.2840 ppm	0.0463 ppm	0.0430 ppm	0.5858 ppm	0.0028 ppm	413.0326 ppm
Concentration per Run 2	0.0013 ppm	62.3770 ppm	0.0461 ppm	0.0428 ppm	0.5859 ppm	0.0028 ppm	421.4234 ppm
Concentration per Run 3	0.0013 ppm	62.3149 ppm	0.0458 ppm	0.0423 ppm	0.5856 ppm	0.0028 ppm	424.1032 ppm
Concentration RSD	9.1 %	0.1 %	0.5 %	0.8 %	0.0 %	0.2 %	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	-0.0005 ppm	0.0343 ppm	0.1558 ppm	0.2141 ppm	106.1845 ppm	10.0423 ppm	0.1154 ppm
Concentration per Run 1	-0.0005 ppm	0.0351 ppm	0.1570 ppm	0.2140 ppm	104.9599 ppm	10.0413 ppm	0.1162 ppm
Concentration per Run 2	-0.0004 ppm	0.0338 ppm	0.1549 ppm	0.2151 ppm	106.5275 ppm	9.9843 ppm	0.1182 ppm
Concentration per Run 3	-0.0006 ppm	0.0340 ppm	0.1556 ppm	0.2131 ppm	107.0661 ppm	10.1014 ppm	0.1119 ppm
Concentration RSD	14.1 %	2.0 %	0.7 %	0.5 %	1.0 %	0.6 %	2.8 %

	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	47.2999 ppm	1.9213 ppm	0.0073 ppm	1.8923 ppm	0.1131 ppm	1.9481 ppm	0.0030 ppm
Concentration per Run 1	47.7038 ppm	1.8968 ppm	0.0070 ppm	1.8966 ppm	0.1145 ppm	1.9428 ppm	0.0027 ppm
Concentration per Run 2	47.0424 ppm	1.9304 ppm	0.0070 ppm	1.8788 ppm	0.1125 ppm	1.9530 ppm	0.0032 ppm
Concentration per Run 3	47.1536 ppm	1.9369 ppm	0.0080 ppm	1.9014 ppm	0.1123 ppm	1.9486 ppm	0.0030 ppm
Concentration RSD	0.7 %	1.1 %	7.6 %	0.6 %	1.1 %	0.3 %	8.4 %

	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	0.0080 ppm	7.8618 ppm	0.0147 ppm	1.9811 ppm	3.0417 ppm	0.0018 ppm	0.1601 ppm
Concentration per Run 1	0.0082 ppm	7.9011 ppm	0.0142 ppm	1.9743 ppm	3.0536 ppm	0.0004 ppm	0.1607 ppm
Concentration per Run 2	0.0078 ppm	7.8573 ppm	0.0152 ppm	1.9870 ppm	3.0378 ppm	0.0021 ppm	0.1600 ppm
Concentration per Run 3	0.0079 ppm	7.8271 ppm	0.0148 ppm	1.9821 ppm	3.0336 ppm	0.0028 ppm	0.1595 ppm
Concentration RSD	2.7 %	0.5 %	3.2 %	0.3 %	0.3 %	67.7 %	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	1.4450 ppm	93.2587 %	98.6107 %	69.7948 %	103.6543 %	114.8856 %	102.2773 %
Concentration per Run 1	1.4634 ppm	92.4754 %	100.1023 %	70.4171 %	102.9036 %	116.1064 %	102.7390 %
Concentration per Run 2	1.4337 ppm	93.6661 %	98.2050 %	69.1950 %	104.2301 %	114.8011 %	101.7982 %
Concentration per Run 3	1.4378 ppm	93.6344 %	97.5248 %	69.7722 %	103.8294 %	113.7493 %	102.2946 %
Concentration RSD	1.1 %	0.7 %	1.4 %	0.9 %	0.7 %	1.0 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472530-04d2 WG2010517
Analysis started at: 12/18/2024 9:39:12 PM
Rack 3
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	0.0009 ppm	88.0696 ppm	0.0499 ppm	0.0619 ppm	0.6801 ppm	0.0046 ppm	670.3887 ppm
Concentration per Run 1	0.0011 ppm	88.1748 ppm	0.0505 ppm	0.0614 ppm	0.6803 ppm	0.0046 ppm	667.4206 ppm
Concentration per Run 2	0.0007 ppm	87.8310 ppm	0.0504 ppm	0.0631 ppm	0.6775 ppm	0.0046 ppm	668.0382 ppm
Concentration per Run 3	0.0009 ppm	88.2029 ppm	0.0489 ppm	0.0610 ppm	0.6824 ppm	0.0046 ppm	675.7072 ppm
Concentration RSD	23.1 %	0.2 %	1.7 %	1.8 %	0.4 %	0.6 %	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	-0.0008 ppm	0.0355 ppm	0.1818 ppm	0.2157 ppm	107.1971 ppm	15.9254 ppm	0.1156 ppm
Concentration per Run 1	-0.0009 ppm	0.0356 ppm	0.1824 ppm	0.2165 ppm	106.5069 ppm	15.9472 ppm	0.1219 ppm
Concentration per Run 2	-0.0007 ppm	0.0351 ppm	0.1816 ppm	0.2143 ppm	106.8736 ppm	15.9173 ppm	0.1119 ppm
Concentration per Run 3	-0.0008 ppm	0.0357 ppm	0.1814 ppm	0.2164 ppm	108.2108 ppm	15.9118 ppm	0.1130 ppm
Concentration RSD	11.0 %	1.0 %	0.3 %	0.6 %	0.8 %	0.1 %	4.7 %

	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	89.7457 ppm	2.8651 ppm	0.0095 ppm	2.2928 ppm	0.1117 ppm	1.9000 ppm	0.0034 ppm
Concentration per Run 1	90.0273 ppm	2.8560 ppm	0.0094 ppm	2.3144 ppm	0.1131 ppm	1.9077 ppm	0.0056 ppm
Concentration per Run 2	89.4946 ppm	2.8529 ppm	0.0094 ppm	2.2836 ppm	0.1117 ppm	1.9012 ppm	0.0039 ppm
Concentration per Run 3	89.7152 ppm	2.8865 ppm	0.0097 ppm	2.2804 ppm	0.1102 ppm	1.8909 ppm	0.0007 ppm
Concentration RSD	0.3 %	0.6 %	1.7 %	0.8 %	1.3 %	0.4 %	73.7 %

	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	0.0065 ppm	13.7402 ppm	0.0155 ppm	3.0006 ppm	3.8107 ppm	0.0012 ppm	0.1961 ppm
Concentration per Run 1	0.0072 ppm	13.8172 ppm	0.0157 ppm	2.9877 ppm	3.8241 ppm	0.0009 ppm	0.1965 ppm
Concentration per Run 2	0.0056 ppm	13.6706 ppm	0.0145 ppm	2.9954 ppm	3.7934 ppm	0.0006 ppm	0.1953 ppm
Concentration per Run 3	0.0067 ppm	13.7327 ppm	0.0161 ppm	3.0187 ppm	3.8147 ppm	0.0021 ppm	0.1966 ppm
Concentration RSD	12.9 %	0.5 %	5.4 %	0.5 %	0.4 %	67.3 %	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	2.3229 ppm	90.4182 %	97.3669 %	64.4171 %	106.5735 %	120.4910 %	105.1287 %
Concentration per Run 1	2.3408 ppm	89.8771 %	98.0314 %	64.3554 %	105.9347 %	120.5161 %	105.1069 %
Concentration per Run 2	2.3170 ppm	90.8682 %	97.7257 %	64.4189 %	107.3761 %	121.0695 %	105.2087 %
Concentration per Run 3	2.3108 ppm	90.5093 %	96.3436 %	64.4770 %	106.4098 %	119.8875 %	105.0704 %
Concentration RSD	0.7 %	0.6 %	0.9 %	0.1 %	0.7 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472530-05d2 WG2010517
Analysis started at: 12/18/2024 9:43:40 PM
Rack 3
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	0.0014 ppm	90.8742 ppm	0.0405 ppm	0.0374 ppm	0.8163 ppm	0.0043 ppm	271.3794 ppm
Concentration per Run 1	0.0015 ppm	90.7927 ppm	0.0412 ppm	0.0366 ppm	0.8193 ppm	0.0044 ppm	272.1701 ppm
Concentration per Run 2	0.0012 ppm	90.6810 ppm	0.0402 ppm	0.0384 ppm	0.8139 ppm	0.0043 ppm	270.9437 ppm
Concentration per Run 3	0.0014 ppm	91.1488 ppm	0.0403 ppm	0.0374 ppm	0.8157 ppm	0.0043 ppm	271.0245 ppm
Concentration RSD	9.8 %	0.3 %	1.5 %	2.4 %	0.3 %	1.3 %	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	0.0031 ppm	0.0491 ppm	0.1495 ppm	0.2730 ppm	139.5881 ppm	8.6061 ppm	0.1192 ppm
Concentration per Run 1	0.0031 ppm	0.0494 ppm	0.1502 ppm	0.2744 ppm	140.2200 ppm	8.6200 ppm	0.1186 ppm
Concentration per Run 2	0.0031 ppm	0.0489 ppm	0.1494 ppm	0.2713 ppm	139.3609 ppm	8.6140 ppm	0.1194 ppm
Concentration per Run 3	0.0032 ppm	0.0491 ppm	0.1487 ppm	0.2732 ppm	139.1833 ppm	8.5843 ppm	0.1197 ppm
Concentration RSD	1.3 %	0.5 %	0.5 %	0.6 %	0.4 %	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	47.4845 ppm	3.6947 ppm	0.0051 ppm	1.5670 ppm	0.1010 ppm	1.0491 ppm	0.0056 ppm
Concentration per Run 1	47.6768 ppm	3.7087 ppm	0.0048 ppm	1.5624 ppm	0.1018 ppm	1.0507 ppm	0.0045 ppm
Concentration per Run 2	47.3617 ppm	3.6856 ppm	0.0048 ppm	1.5665 ppm	0.1015 ppm	1.0488 ppm	0.0050 ppm
Concentration per Run 3	47.4150 ppm	3.6897 ppm	0.0056 ppm	1.5722 ppm	0.0997 ppm	1.0478 ppm	0.0073 ppm
Concentration RSD	0.4 %	0.3 %	8.6 %	0.3 %	1.1 %	0.1 %	26.2 %

	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	-0.0003 ppm	7.6462 ppm	0.0408 ppm	1.3240 ppm	3.1561 ppm	0.0005 ppm	0.2308 ppm
Concentration per Run 1	-0.0019 ppm	7.7086 ppm	0.0399 ppm	1.3288 ppm	3.1694 ppm	0.0001 ppm	0.2313 ppm
Concentration per Run 2	0.0019 ppm	7.6640 ppm	0.0418 ppm	1.3194 ppm	3.1511 ppm	0.0015 ppm	0.2302 ppm
Concentration per Run 3	-0.0010 ppm	7.5661 ppm	0.0408 ppm	1.3239 ppm	3.1479 ppm	-0.0002 ppm	0.2309 ppm
Concentration RSD	667.2 %	1.0 %	2.3 %	0.4 %	0.4 %	179.2 %	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	1.4844 ppm	96.2321 %	102.0039 %	71.7399 %	107.8801 %	119.9265 %	106.2294 %
Concentration per Run 1	1.4939 ppm	96.0034 %	101.6682 %	71.4264 %	107.8254 %	120.0477 %	106.2372 %
Concentration per Run 2	1.4858 ppm	96.1044 %	102.3218 %	71.9190 %	107.3525 %	119.9154 %	106.3255 %
Concentration per Run 3	1.4734 ppm	96.5886 %	102.0216 %	71.8742 %	108.4624 %	119.8165 %	106.1253 %
Concentration RSD	0.7 %	0.3 %	0.3 %	0.4 %	0.5 %	0.1 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472530-06d2 WG2010517
Analysis started at: 12/18/2024 9:48:08 PM
Rack 3
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	0.0012 ppm	72.3669 ppm	0.0346 ppm	0.0434 ppm	0.9135 ppm	0.0036 ppm	374.9276 ppm
Concentration per Run 1	0.0014 ppm	72.1584 ppm	0.0349 ppm	0.0438 ppm	0.9111 ppm	0.0036 ppm	373.0668 ppm
Concentration per Run 2	0.0011 ppm	72.8216 ppm	0.0340 ppm	0.0428 ppm	0.9158 ppm	0.0036 ppm	378.2052 ppm
Concentration per Run 3	0.0013 ppm	72.1207 ppm	0.0349 ppm	0.0435 ppm	0.9138 ppm	0.0036 ppm	373.5107 ppm
Concentration RSD	11.8 %	0.5 %	1.5 %	1.2 %	0.3 %	0.9 %	0.8 %

	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	0.0398 ppm	0.1277 ppm	2.3815 ppm	124.9514 ppm	11.0777 ppm	0.1063 ppm
Concentration per Run 1	-0.0002 ppm	0.0401 ppm	0.1281 ppm	2.4127 ppm	124.4509 ppm	11.0015 ppm	0.1036 ppm
Concentration per Run 2	-0.0001 ppm	0.0395 ppm	0.1274 ppm	2.3764 ppm	125.6709 ppm	11.1129 ppm	0.1098 ppm
Concentration per Run 3	-0.0001 ppm	0.0397 ppm	0.1276 ppm	2.3555 ppm	124.7325 ppm	11.1187 ppm	0.1056 ppm
Concentration RSD	25.1 %	0.7 %	0.3 %	1.2 %	0.5 %	0.6 %	3.0 %

	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	57.9807 ppm	2.5757 ppm	0.0050 ppm	1.5811 ppm	0.0927 ppm	1.4274 ppm	0.0030 ppm
Concentration per Run 1	58.1622 ppm	2.5600 ppm	0.0050 ppm	1.5697 ppm	0.0919 ppm	1.4269 ppm	0.0032 ppm
Concentration per Run 2	58.0119 ppm	2.5965 ppm	0.0052 ppm	1.5953 ppm	0.0930 ppm	1.4251 ppm	0.0030 ppm
Concentration per Run 3	57.7679 ppm	2.5707 ppm	0.0047 ppm	1.5782 ppm	0.0933 ppm	1.4302 ppm	0.0028 ppm
Concentration RSD	0.3 %	0.7 %	5.3 %	0.8 %	0.8 %	0.2 %	6.7 %

	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	0.0016 ppm	7.4355 ppm	0.0351 ppm	1.6464 ppm	2.7662 ppm	0.0008 ppm	0.1982 ppm
Concentration per Run 1	0.0013 ppm	7.5011 ppm	0.0350 ppm	1.6419 ppm	2.7740 ppm	-0.0004 ppm	0.1988 ppm
Concentration per Run 2	0.0018 ppm	7.4467 ppm	0.0344 ppm	1.6535 ppm	2.7712 ppm	0.0015 ppm	0.1979 ppm
Concentration per Run 3	0.0016 ppm	7.3588 ppm	0.0359 ppm	1.6438 ppm	2.7534 ppm	0.0013 ppm	0.1979 ppm
Concentration RSD	17.6 %	1.0 %	2.1 %	0.4 %	0.4 %	134.6 %	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	0.8156 ppm	94.1060 %	99.1220 %	70.1906 %	108.6073 %	119.6573 %	106.2207 %
Concentration per Run 1	0.8161 ppm	93.5420 %	99.8524 %	70.0043 %	108.7503 %	120.0170 %	106.1864 %
Concentration per Run 2	0.8154 ppm	94.2812 %	98.1834 %	70.4320 %	108.5661 %	119.2557 %	106.3551 %
Concentration per Run 3	0.8152 ppm	94.4949 %	99.3302 %	70.1354 %	108.5055 %	119.6991 %	106.1205 %
Concentration RSD	0.1 %	0.5 %	0.9 %	0.3 %	0.1 %	0.3 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472530-07d2 WG2010517
Analysis started at: 12/18/2024 9:52:37 PM
Rack 3
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	0.0008 ppm	123.5926 ppm	0.0799 ppm	0.1762 ppm	1.5917 ppm	0.0119 ppm	676.1243 ppm
Concentration per Run 1	0.0008 ppm	123.9159 ppm	0.0790 ppm	0.1763 ppm	1.6023 ppm	0.0120 ppm	672.5688 ppm
Concentration per Run 2	0.0013 ppm	123.0600 ppm	0.0822 ppm	0.1772 ppm	1.5767 ppm	0.0118 ppm	675.1221 ppm
Concentration per Run 3	0.0003 ppm	123.8019 ppm	0.0784 ppm	0.1753 ppm	1.5960 ppm	0.0119 ppm	680.6819 ppm
Concentration RSD	59.0 %	0.4 %	2.6 %	0.5 %	0.8 %	0.7 %	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	-0.0016 ppm	0.0638 ppm	0.1185 ppm	0.2397 ppm	113.7746 ppm	11.5032 ppm	0.1497 ppm
Concentration per Run 1	-0.0015 ppm	0.0642 ppm	0.1191 ppm	0.2413 ppm	113.5406 ppm	11.5637 ppm	0.1523 ppm
Concentration per Run 2	-0.0016 ppm	0.0637 ppm	0.1186 ppm	0.2403 ppm	112.9188 ppm	11.3737 ppm	0.1486 ppm
Concentration per Run 3	-0.0017 ppm	0.0636 ppm	0.1178 ppm	0.2375 ppm	114.8644 ppm	11.5723 ppm	0.1482 ppm
Concentration RSD	4.8 %	0.5 %	0.6 %	0.8 %	0.9 %	1.0 %	1.5 %

	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	46.1413 ppm	2.8809 ppm	0.0138 ppm	3.0061 ppm	0.1555 ppm	2.1891 ppm	0.0255 ppm
Concentration per Run 1	46.4739 ppm	2.8743 ppm	0.0139 ppm	3.0177 ppm	0.1557 ppm	2.1876 ppm	0.0253 ppm
Concentration per Run 2	46.2760 ppm	2.8695 ppm	0.0139 ppm	2.9849 ppm	0.1570 ppm	2.2129 ppm	0.0261 ppm
Concentration per Run 3	45.6741 ppm	2.8988 ppm	0.0135 ppm	3.0158 ppm	0.1537 ppm	2.1670 ppm	0.0249 ppm
Concentration RSD	0.9 %	0.5 %	1.6 %	0.6 %	1.1 %	1.1 %	2.4 %

	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	0.0041 ppm	15.8128 ppm	0.0685 ppm	4.3769 ppm	6.6867 ppm	0.0081 ppm	0.2792 ppm
Concentration per Run 1	0.0049 ppm	15.9888 ppm	0.0681 ppm	4.4056 ppm	6.7296 ppm	0.0092 ppm	0.2791 ppm
Concentration per Run 2	0.0030 ppm	15.9007 ppm	0.0704 ppm	4.3327 ppm	6.7021 ppm	0.0061 ppm	0.2798 ppm
Concentration per Run 3	0.0044 ppm	15.5489 ppm	0.0669 ppm	4.3925 ppm	6.6284 ppm	0.0090 ppm	0.2789 ppm
Concentration RSD	23.5 %	1.5 %	2.6 %	0.9 %	0.8 %	21.0 %	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	0.7499 ppm	94.4212 %	102.2767 %	64.1415 %	115.1726 %	130.7072 %	114.6821 %
Concentration per Run 1	0.7520 ppm	93.7261 %	102.8930 %	64.5523 %	114.5085 %	131.6722 %	115.1905 %
Concentration per Run 2	0.7555 ppm	94.3464 %	102.5013 %	63.6729 %	115.1437 %	130.9052 %	114.7821 %
Concentration per Run 3	0.7423 ppm	95.1910 %	101.4358 %	64.1992 %	115.8657 %	129.5442 %	114.0737 %
Concentration RSD	0.9 %	0.8 %	0.7 %	0.7 %	0.6 %	0.8 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472530-08d2 WG2010517
Analysis started at: 12/18/2024 9:57:05 PM
Rack 3
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	0.0001 ppm	61.9910 ppm	0.0202 ppm	0.0371 ppm	0.4890 ppm	0.0036 ppm	530.1982 ppm
Concentration per Run 1	0.0001 ppm	62.2050 ppm	0.0194 ppm	0.0366 ppm	0.4908 ppm	0.0036 ppm	530.5347 ppm
Concentration per Run 2	0.0000 ppm	62.5490 ppm	0.0210 ppm	0.0384 ppm	0.4946 ppm	0.0037 ppm	527.4399 ppm
Concentration per Run 3	0.0000 ppm	61.2190 ppm	0.0203 ppm	0.0364 ppm	0.4817 ppm	0.0034 ppm	532.6200 ppm
Concentration RSD	67.1 %	1.1 %	4.0 %	2.8 %	1.4 %	3.6 %	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	-0.0026 ppm	0.0316 ppm	0.0531 ppm	0.1033 ppm	60.7622 ppm	7.9885 ppm	0.0835 ppm
Concentration per Run 1	-0.0025 ppm	0.0310 ppm	0.0536 ppm	0.1044 ppm	60.6122 ppm	8.0214 ppm	0.0835 ppm
Concentration per Run 2	-0.0027 ppm	0.0317 ppm	0.0528 ppm	0.1033 ppm	60.4196 ppm	8.1064 ppm	0.0837 ppm
Concentration per Run 3	-0.0026 ppm	0.0320 ppm	0.0529 ppm	0.1021 ppm	61.2550 ppm	7.8379 ppm	0.0833 ppm
Concentration RSD	4.5 %	1.5 %	0.8 %	1.1 %	0.7 %	1.7 %	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	36.4054 ppm	1.0755 ppm	0.0039 ppm	1.7254 ppm	0.0776 ppm	0.0668 ppm	0.0001 ppm
Concentration per Run 1	36.8027 ppm	1.0719 ppm	0.0037 ppm	1.7430 ppm	0.0789 ppm	0.0684 ppm	-0.0001 ppm
Concentration per Run 2	36.1066 ppm	1.0684 ppm	0.0044 ppm	1.7702 ppm	0.0763 ppm	0.0663 ppm	-0.0003 ppm
Concentration per Run 3	36.3071 ppm	1.0860 ppm	0.0035 ppm	1.6630 ppm	0.0775 ppm	0.0656 ppm	0.0008 ppm
Concentration RSD	1.0 %	0.9 %	11.1 %	3.2 %	1.7 %	2.2 %	452.5 %

	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	0.0012 ppm	8.6648 ppm	0.0040 ppm	3.6298 ppm	3.3050 ppm	0.0026 ppm	0.1265 ppm
Concentration per Run 1	0.0027 ppm	8.7457 ppm	0.0038 ppm	3.6388 ppm	3.3377 ppm	0.0035 ppm	0.1270 ppm
Concentration per Run 2	0.0000 ppm	8.6178 ppm	0.0041 ppm	3.6523 ppm	3.2909 ppm	0.0012 ppm	0.1263 ppm
Concentration per Run 3	0.0010 ppm	8.6308 ppm	0.0040 ppm	3.5984 ppm	3.2865 ppm	0.0030 ppm	0.1260 ppm
Concentration RSD	112.3 %	0.8 %	3.4 %	0.8 %	0.9 %	46.1 %	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	0.1542 ppm	92.0815 %	98.3427 %	69.2950 %	96.3544 %	107.4311 %	95.7363 %
Concentration per Run 1	0.1551 ppm	91.0606 %	98.5850 %	69.1408 %	95.2870 %	107.2883 %	95.6900 %
Concentration per Run 2	0.1537 ppm	92.5098 %	98.9398 %	69.6230 %	97.2306 %	108.0665 %	96.1900 %
Concentration per Run 3	0.1538 ppm	92.6742 %	97.5031 %	69.1211 %	96.5456 %	106.9385 %	95.3290 %
Concentration RSD	0.5 %	1.0 %	0.8 %	0.4 %	1.0 %	0.5 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: eL2472530-09d2 WG2010517
Analysis started at: 12/18/2024 10:01:34 PM
Rack 3
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	-0.0006 ppm	89.4031 ppm	0.0183 ppm	0.0874 ppm	0.9706 ppm	0.0073 ppm	1,387.5839 [SIC 1000]
Concentration per Run 1	-0.0003 ppm	89.2244 ppm	0.0179 ppm	0.0865 ppm	0.9708 ppm	0.0073 ppm	1,388.4480 ppm
Concentration per Run 2	-0.0005 ppm	89.8768 ppm	0.0178 ppm	0.0885 ppm	0.9729 ppm	0.0073 ppm	1,385.6065 ppm
Concentration per Run 3	-0.0009 ppm	89.1080 ppm	0.0191 ppm	0.0872 ppm	0.9681 ppm	0.0072 ppm	1,388.6972 ppm
Concentration RSD	47.2 %	0.5 %	4.0 %	1.2 %	0.2 %	0.4 %	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	-0.0081 ppm	0.0166 ppm	0.0917 ppm	0.1066 ppm	47.3785 ppm	17.6383 ppm	0.1570 ppm
Concentration per Run 1	-0.0083 ppm	0.0166 ppm	0.0923 ppm	0.1077 ppm	47.6012 ppm	17.6131 ppm	0.1584 ppm
Concentration per Run 2	-0.0081 ppm	0.0170 ppm	0.0917 ppm	0.1071 ppm	47.2915 ppm	17.7403 ppm	0.1565 ppm
Concentration per Run 3	-0.0081 ppm	0.0162 ppm	0.0910 ppm	0.1051 ppm	47.2429 ppm	17.5614 ppm	0.1563 ppm
Concentration RSD	1.5 %	2.4 %	0.7 %	1.3 %	0.4 %	0.5 %	0.7 %

	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	212.9255 ppm	4.2606 ppm	0.0042 ppm	2.9727 ppm	0.0662 ppm	0.0515 ppm	-0.0013 ppm
Concentration per Run 1	213.8680 ppm	4.2673 ppm	0.0044 ppm	2.9640 ppm	0.0663 ppm	0.0523 ppm	0.0002 ppm
Concentration per Run 2	213.6229 ppm	4.2525 ppm	0.0045 ppm	3.0062 ppm	0.0661 ppm	0.0518 ppm	-0.0030 ppm
Concentration per Run 3	211.2856 ppm	4.2620 ppm	0.0037 ppm	2.9480 ppm	0.0660 ppm	0.0505 ppm	-0.0010 ppm
Concentration RSD	0.7 %	0.2 %	9.9 %	1.0 %	0.2 %	1.8 %	124.0 %

	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	0.0018 ppm	19.2862 ppm	0.0078 ppm	4.4871 ppm	4.1728 ppm	0.0002 ppm	0.1190 ppm
Concentration per Run 1	0.0042 ppm	19.5136 ppm	0.0069 ppm	4.4821 ppm	4.1939 ppm	-0.0002 ppm	0.1197 ppm
Concentration per Run 2	0.0005 ppm	19.3169 ppm	0.0084 ppm	4.4932 ppm	4.1787 ppm	0.0003 ppm	0.1192 ppm
Concentration per Run 3	0.0008 ppm	19.0281 ppm	0.0081 ppm	4.4859 ppm	4.1459 ppm	0.0004 ppm	0.1182 ppm
Concentration RSD	110.7 %	1.3 %	9.9 %	0.1 %	0.6 %	212.2 %	0.6 %

	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	0.2018 ppm	84.6203 %	94.2331 %	58.6379 %	93.7122 %	109.5659 %	92.7926 %
Concentration per Run 1	0.2031 ppm	84.2990 %	93.9877 %	58.5498 %	93.7475 %	109.9327 %	92.6626 %
Concentration per Run 2	0.2011 ppm	84.3467 %	94.1726 %	58.8646 %	93.4961 %	109.3923 %	93.0716 %
Concentration per Run 3	0.2014 ppm	85.2152 %	94.5391 %	58.4993 %	93.8931 %	109.3726 %	92.6437 %
Concentration RSD	0.5 %	0.6 %	0.3 %	0.3 %	0.2 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472530-10d2 WG2010517
Analysis started at: 12/18/2024 10:06:02 PM
Rack 3
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	0.0005 ppm	76.0800 ppm	0.0339 ppm	0.0843 ppm	0.5801 ppm	0.0028 ppm	688.2544 ppm
Concentration per Run 1	0.0008 ppm	76.1321 ppm	0.0332 ppm	0.0834 ppm	0.5779 ppm	0.0028 ppm	689.5670 ppm
Concentration per Run 2	0.0003 ppm	75.9286 ppm	0.0341 ppm	0.0850 ppm	0.5795 ppm	0.0028 ppm	683.5933 ppm
Concentration per Run 3	0.0004 ppm	76.1791 ppm	0.0344 ppm	0.0844 ppm	0.5827 ppm	0.0028 ppm	691.6030 ppm
Concentration RSD	46.3 %	0.2 %	1.8 %	1.0 %	0.4 %	0.7 %	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	0.0087 ppm	0.0382 ppm	0.1463 ppm	0.2946 ppm	107.0661 ppm	18.5682 ppm	0.0983 ppm
Concentration per Run 1	0.0086 ppm	0.0383 ppm	0.1463 ppm	0.2963 ppm	106.6239 ppm	18.5731 ppm	0.0988 ppm
Concentration per Run 2	0.0085 ppm	0.0384 ppm	0.1471 ppm	0.2942 ppm	106.7045 ppm	18.5650 ppm	0.0948 ppm
Concentration per Run 3	0.0089 ppm	0.0380 ppm	0.1455 ppm	0.2934 ppm	107.8699 ppm	18.5664 ppm	0.1012 ppm
Concentration RSD	2.3 %	0.6 %	0.5 %	0.5 %	0.7 %	0.0 %	3.3 %

	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	73.9827 ppm	2.5984 ppm	0.0184 ppm	3.3051 ppm	0.0884 ppm	0.7563 ppm	0.0030 ppm
Concentration per Run 1	73.9934 ppm	2.5951 ppm	0.0184 ppm	3.3203 ppm	0.0881 ppm	0.7568 ppm	0.0028 ppm
Concentration per Run 2	74.1129 ppm	2.5853 ppm	0.0182 ppm	3.3006 ppm	0.0890 ppm	0.7539 ppm	0.0038 ppm
Concentration per Run 3	73.8418 ppm	2.6147 ppm	0.0184 ppm	3.2944 ppm	0.0880 ppm	0.7581 ppm	0.0023 ppm
Concentration RSD	0.2 %	0.6 %	0.7 %	0.4 %	0.6 %	0.3 %	26.3 %

	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	31.8758 [SIC 100]	0.0173 ppm	3.5490 ppm	3.7450 ppm	0.0011 ppm	0.1797 ppm
Concentration per Run 1	0.0001 ppm	32.0119 ppm	0.0178 ppm	3.5404 ppm	3.7619 ppm	0.0009 ppm	0.1795 ppm
Concentration per Run 2	-0.0006 ppm	31.8830 ppm	0.0181 ppm	3.5424 ppm	3.7409 ppm	0.0023 ppm	0.1797 ppm
Concentration per Run 3	-0.0013 ppm	31.7325 ppm	0.0158 ppm	3.5641 ppm	3.7321 ppm	-0.0001 ppm	0.1798 ppm
Concentration RSD	121.4 %	0.4 %	7.2 %	0.4 %	0.4 %	115.8 %	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	0.9639 ppm	90.3940 %	96.6900 %	63.6566 %	97.2972 %	109.6470 %	95.4645 %
Concentration per Run 1	0.9609 ppm	90.2244 %	96.4882 %	63.8020 %	97.5942 %	109.1799 %	95.8523 %
Concentration per Run 2	0.9679 ppm	90.4339 %	97.3902 %	63.6452 %	97.2860 %	110.3519 %	95.3021 %
Concentration per Run 3	0.9628 ppm	90.5238 %	96.1917 %	63.5226 %	97.0115 %	109.4093 %	95.2391 %
Concentration RSD	0.4 %	0.2 %	0.6 %	0.2 %	0.3 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472530-11d2 WG2010517
Analysis started at: 12/18/2024 10:10:30 PM
Rack 3
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	0.0001 ppm	66.9281 ppm	0.0311 ppm	0.0713 ppm	0.8575 ppm	0.0046 ppm	514.6250 ppm
Concentration per Run 1	0.0003 ppm	67.1633 ppm	0.0313 ppm	0.0647 ppm	0.8577 ppm	0.0045 ppm	515.0702 ppm
Concentration per Run 2	0.0000 ppm	67.0103 ppm	0.0311 ppm	0.0769 ppm	0.8595 ppm	0.0046 ppm	516.1666 ppm
Concentration per Run 3	0.0001 ppm	66.6106 ppm	0.0311 ppm	0.0724 ppm	0.8552 ppm	0.0046 ppm	512.6380 ppm
Concentration RSD	142.2 %	0.4 %	0.4 %	8.6 %	0.3 %	0.6 %	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	-0.0024 ppm	0.0283 ppm	0.0628 ppm	0.1873 ppm	65.8282 ppm	9.4285 ppm	0.0918 ppm
Concentration per Run 1	-0.0023 ppm	0.0260 ppm	0.0575 ppm	0.1713 ppm	65.7859 ppm	9.5241 ppm	0.0951 ppm
Concentration per Run 2	-0.0025 ppm	0.0300 ppm	0.0667 ppm	0.1990 ppm	65.9922 ppm	9.3704 ppm	0.0927 ppm
Concentration per Run 3	-0.0024 ppm	0.0289 ppm	0.0640 ppm	0.1916 ppm	65.7065 ppm	9.3911 ppm	0.0877 ppm
Concentration RSD	4.5 %	7.2 %	7.5 %	7.7 %	0.2 %	0.9 %	4.1 %

	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	48.7903 ppm	1.6329 ppm	0.0070 ppm	1.7739 ppm	0.0828 ppm	0.0989 ppm	0.0013 ppm
Concentration per Run 1	44.6091 ppm	1.6344 ppm	0.0062 ppm	1.7908 ppm	0.0757 ppm	0.1001 ppm	0.0011 ppm
Concentration per Run 2	52.0940 ppm	1.6381 ppm	0.0072 ppm	1.7657 ppm	0.0887 ppm	0.0999 ppm	0.0021 ppm
Concentration per Run 3	49.6677 ppm	1.6263 ppm	0.0076 ppm	1.7652 ppm	0.0840 ppm	0.0967 ppm	0.0006 ppm
Concentration RSD	7.8 %	0.4 %	9.9 %	0.8 %	7.9 %	2.0 %	59.1 %

	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	0.0055 ppm	11.3646 ppm	0.0071 ppm	2.9149 ppm	3.0089 ppm	0.0011 ppm	0.1440 ppm
Concentration per Run 1	0.0061 ppm	10.3982 ppm	0.0071 ppm	2.9130 ppm	2.7498 ppm	0.0006 ppm	0.1318 ppm
Concentration per Run 2	0.0051 ppm	12.1096 ppm	0.0073 ppm	2.9228 ppm	3.2091 ppm	0.0013 ppm	0.1536 ppm
Concentration per Run 3	0.0054 ppm	11.5859 ppm	0.0070 ppm	2.9089 ppm	3.0679 ppm	0.0013 ppm	0.1466 ppm
Concentration RSD	9.7 %	7.7 %	2.3 %	0.2 %	7.8 %	37.9 %	7.7 %

	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	0.1206 ppm	94.5490 %	100.0059 %	69.9196 %	105.3464 %	117.5603 %	104.0226 %
Concentration per Run 1	0.1097 ppm	102.2569 %	100.0482 %	69.0860 %	113.0923 %	117.9783 %	103.3088 %
Concentration per Run 2	0.1290 ppm	88.9266 %	99.5876 %	69.9413 %	99.4108 %	117.2976 %	103.9461 %
Concentration per Run 3	0.1230 ppm	92.4635 %	100.3818 %	70.7314 %	103.5360 %	117.4048 %	104.8130 %
Concentration RSD	8.2 %	7.3 %	0.4 %	1.2 %	6.7 %	0.3 %	0.7 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472530-12d2 WG2010517
Analysis started at: 12/18/2024 10:15:00 PM
Rack 3
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	0.0003 ppm	74.7150 ppm	0.0344 ppm	0.0647 ppm	0.4519 ppm	0.0047 ppm	747.5574 ppm
Concentration per Run 1	0.0003 ppm	74.1577 ppm	0.0341 ppm	0.0649 ppm	0.4450 ppm	0.0047 ppm	744.4160 ppm
Concentration per Run 2	0.0000 ppm	74.5173 ppm	0.0347 ppm	0.0655 ppm	0.4553 ppm	0.0047 ppm	746.5096 ppm
Concentration per Run 3	0.0006 ppm	75.4700 ppm	0.0344 ppm	0.0637 ppm	0.4553 ppm	0.0047 ppm	751.7466 ppm
Concentration RSD	86.6 %	0.9 %	1.0 %	1.4 %	1.3 %	0.5 %	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	-0.0038 ppm	0.0368 ppm	0.0958 ppm	0.1000 ppm	143.0852 ppm	8.6603 ppm	0.0990 ppm
Concentration per Run 1	-0.0038 ppm	0.0366 ppm	0.0952 ppm	0.1002 ppm	142.7580 ppm	8.6156 ppm	0.0998 ppm
Concentration per Run 2	-0.0039 ppm	0.0372 ppm	0.0966 ppm	0.0999 ppm	143.6215 ppm	8.6830 ppm	0.0945 ppm
Concentration per Run 3	-0.0037 ppm	0.0365 ppm	0.0954 ppm	0.1000 ppm	142.8760 ppm	8.6822 ppm	0.1028 ppm
Concentration RSD	2.4 %	1.0 %	0.8 %	0.1 %	0.3 %	0.4 %	4.2 %

	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	46.8871 ppm	2.8272 ppm	0.0061 ppm	2.0405 ppm	0.0806 ppm	0.0381 ppm	-0.0006 ppm
Concentration per Run 1	46.9231 ppm	2.8226 ppm	0.0064 ppm	2.0319 ppm	0.0797 ppm	0.0380 ppm	0.0009 ppm
Concentration per Run 2	46.7931 ppm	2.8359 ppm	0.0059 ppm	2.0200 ppm	0.0815 ppm	0.0383 ppm	-0.0034 ppm
Concentration per Run 3	46.9451 ppm	2.8231 ppm	0.0060 ppm	2.0695 ppm	0.0806 ppm	0.0380 ppm	0.0007 ppm
Concentration RSD	0.2 %	0.3 %	3.9 %	1.3 %	1.1 %	0.5 %	419.9 %

	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	-0.0007 ppm	10.8745 ppm	0.0041 ppm	4.4891 ppm	2.3873 ppm	0.0006 ppm	0.1781 ppm
Concentration per Run 1	0.0013 ppm	10.8836 ppm	0.0039 ppm	4.4408 ppm	2.3883 ppm	-0.0001 ppm	0.1784 ppm
Concentration per Run 2	-0.0015 ppm	10.8244 ppm	0.0046 ppm	4.5115 ppm	2.3879 ppm	0.0003 ppm	0.1790 ppm
Concentration per Run 3	-0.0019 ppm	10.9156 ppm	0.0036 ppm	4.5148 ppm	2.3858 ppm	0.0015 ppm	0.1770 ppm
Concentration RSD	246.3 %	0.4 %	11.9 %	0.9 %	0.1 %	148.1 %	0.6 %

	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	0.2402 ppm	90.6467 %	97.3190 %	66.8406 %	105.2331 %	118.7788 %	104.1855 %
Concentration per Run 1	0.2400 ppm	90.6779 %	97.5910 %	66.8460 %	105.7125 %	119.3673 %	104.1422 %
Concentration per Run 2	0.2403 ppm	90.8883 %	97.0880 %	66.6166 %	105.5326 %	118.5141 %	104.0763 %
Concentration per Run 3	0.2405 ppm	90.3739 %	97.2780 %	67.0591 %	104.4543 %	118.4550 %	104.3381 %
Concentration RSD	0.1 %	0.3 %	0.3 %	0.3 %	0.6 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCV
Analysis started at: 12/18/2024 10:19:29 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	0.4685 ppm	0.4722 ppm	0.4626 ppm	0.4654 ppm	0.4935 ppm	0.4963 ppm	0.5178 ppm
Concentration per Run 1	0.4715 ppm	0.4750 ppm	0.4618 ppm	0.4688 ppm	0.4983 ppm	0.4988 ppm	0.5238 ppm
Concentration per Run 2	0.4681 ppm	0.4716 ppm	0.4617 ppm	0.4629 ppm	0.4929 ppm	0.4949 ppm	0.5183 ppm
Concentration per Run 3	0.4658 ppm	0.4700 ppm	0.4644 ppm	0.4644 ppm	0.4894 ppm	0.4951 ppm	0.5112 ppm
Recovery Percentage 1	93.693 %	94.436 %	92.524 %	93.076 %	98.704 %	99.251 %	103.557 %
Concentration RSD	0.6 %	0.5 %	0.3 %	0.7 %	0.9 %	0.4 %	1.2 %

	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	0.4697 ppm	0.4914 ppm	0.4733 ppm	0.4787 ppm	0.5094 ppm	5.1885 ppm	0.5105 ppm
Concentration per Run 1	0.4716 ppm	0.4938 ppm	0.4759 ppm	0.4810 ppm	0.5148 ppm	5.2400 ppm	0.5147 ppm
Concentration per Run 2	0.4673 ppm	0.4892 ppm	0.4721 ppm	0.4786 ppm	0.5080 ppm	5.1646 ppm	0.5076 ppm
Concentration per Run 3	0.4703 ppm	0.4910 ppm	0.4720 ppm	0.4766 ppm	0.5054 ppm	5.1610 ppm	0.5092 ppm
Recovery Percentage 1	93.946 %	98.272 %	94.665 %	95.747 %	101.886 %	103.771 %	102.099 %
Concentration RSD	0.5 %	0.5 %	0.5 %	0.5 %	0.9 %	0.9 %	0.7 %

	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	0.4778 ppm	0.4716 ppm	0.4777 ppm	10.2548 ppm	0.4880 ppm	0.4780 ppm	0.4796 ppm
Concentration per Run 1	0.4795 ppm	0.4740 ppm	0.4765 ppm	10.2829 ppm	0.4912 ppm	0.4798 ppm	0.4830 ppm
Concentration per Run 2	0.4775 ppm	0.4706 ppm	0.4761 ppm	10.2671 ppm	0.4857 ppm	0.4776 ppm	0.4768 ppm
Concentration per Run 3	0.4765 ppm	0.4701 ppm	0.4804 ppm	10.2144 ppm	0.4870 ppm	0.4767 ppm	0.4789 ppm
Recovery Percentage 1	95.569 %	94.313 %	95.532 %	102.548 %	97.593 %	95.604 %	95.914 %
Concentration RSD	0.3 %	0.5 %	0.5 %	0.3 %	0.6 %	0.3 %	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	0.4753 ppm	5.3255 ppm	0.4914 ppm	0.5224 ppm	0.4774 ppm	0.4728 ppm	0.4817 ppm
Concentration per Run 1	0.4749 ppm	5.3510 ppm	0.4926 ppm	0.5261 ppm	0.4806 ppm	0.4736 ppm	0.4833 ppm
Concentration per Run 2	0.4761 ppm	5.3153 ppm	0.4898 ppm	0.5194 ppm	0.4761 ppm	0.4730 ppm	0.4818 ppm
Concentration per Run 3	0.4750 ppm	5.3103 ppm	0.4918 ppm	0.5217 ppm	0.4754 ppm	0.4719 ppm	0.4801 ppm
Recovery Percentage 1	95.065 %	101.438 %	98.282 %	104.479 %	95.471 %	94.563 %	96.343 %
Concentration RSD	0.1 %	0.4 %	0.3 %	0.7 %	0.6 %	0.2 %	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	0.4703 ppm	100.9966 %	100.1718 %	92.1573 %	95.7770 %	97.8399 %	94.5967 %
Concentration per Run 1	0.4728 ppm	100.6753 %	100.0296 %	92.0639 %	96.0041 %	97.6493 %	94.7471 %
Concentration per Run 2	0.4668 ppm	101.1688 %	99.9719 %	92.2427 %	96.1791 %	97.7699 %	94.6774 %
Concentration per Run 3	0.4713 ppm	101.1457 %	100.5140 %	92.1653 %	95.1479 %	98.1005 %	94.3657 %
Recovery Percentage 1	94.058 %						
Concentration RSD	0.7 %	0.3 %	0.3 %	0.1 %	0.6 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCB
Analysis started at: 12/18/2024 10:23:56 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	-0.0045 ppm	0.0016 ppm	-0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0036 ppm
Concentration per Run 1	-0.0001 ppm	-0.0054 ppm	0.0010 ppm	0.0007 ppm	0.0000 ppm	0.0001 ppm	0.0012 ppm
Concentration per Run 2	0.0000 ppm	-0.0022 ppm	0.0021 ppm	-0.0002 ppm	0.0000 ppm	0.0001 ppm	0.0044 ppm
Concentration per Run 3	-0.0004 ppm	-0.0058 ppm	0.0017 ppm	-0.0015 ppm	0.0000 ppm	0.0001 ppm	0.0051 ppm
Recovery Percentage 1	-3.212 %	-4.482 %	32.030 %	-1.125 %	0.023 %	1.137 %	3.575 %
Concentration RSD	142.3 %	45.0 %	34.7 %	320.5 %	1,335.2 %	13.3 %	58.2 %

	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	-0.0002 ppm	-0.0001 ppm	0.0040 ppm	0.0163 ppm	0.0004 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0037 ppm	0.0085 ppm	0.0008 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	-0.0002 ppm	0.0042 ppm	0.0181 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0040 ppm	0.0224 ppm	0.0000 ppm
Recovery Percentage 1	1.042 %	-0.332 %	-1.744 %	-1.389 %	7.901 %	0.653 %	3.957 %
Concentration RSD	100.0 %	586.8 %	23.0 %	48.9 %	6.6 %	43.6 %	106.2 %

	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	0.0003 ppm	0.0001 ppm	0.0035 ppm	-0.0004 ppm	0.0004 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 1	-0.0009 ppm	0.0002 ppm	0.0032 ppm	0.0003 ppm	0.0009 ppm	-0.0005 ppm	-0.0009 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	0.0039 ppm	-0.0012 ppm	0.0003 ppm	0.0001 ppm	0.0014 ppm
Concentration per Run 3	0.0018 ppm	0.0001 ppm	0.0032 ppm	-0.0002 ppm	-0.0001 ppm	0.0006 ppm	-0.0012 ppm
Recovery Percentage 1	0.283 %	1.436 %	6.910 %	-0.018 %	1.488 %	0.681 %	-0.418 %
Concentration RSD	497.6 %	34.6 %	12.3 %	200.9 %	125.5 %	775.5 %	688.7 %

	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	0.0016 ppm	0.0083 ppm	0.0006 ppm	0.0001 ppm	0.0004 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 1	0.0012 ppm	0.0094 ppm	0.0004 ppm	0.0001 ppm	0.0005 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 2	0.0023 ppm	0.0081 ppm	0.0011 ppm	0.0001 ppm	0.0005 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 3	0.0014 ppm	0.0076 ppm	0.0003 ppm	0.0001 ppm	0.0003 ppm	0.0012 ppm	0.0001 ppm
Recovery Percentage 1	16.440 %	1.668 %	1.147 %	0.981 %	4.272 %	2.552 %	0.023 %
Concentration RSD	34.9 %	11.1 %	76.8 %	47.5 %	21.6 %	127.3 %	6,105.3 %

	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	0.0002 ppm	99.9079 %	99.5254 %	94.0780 %	97.9092 %	98.8330 %	96.2577 %
Concentration per Run 1	0.0003 ppm	98.6339 %	99.5318 %	93.4976 %	97.3867 %	99.0493 %	96.0181 %
Concentration per Run 2	0.0002 ppm	100.2914 %	99.6029 %	94.2739 %	98.7889 %	98.8533 %	96.2956 %
Concentration per Run 3	0.0002 ppm	100.7986 %	99.4416 %	94.4624 %	97.5521 %	98.5965 %	96.4593 %
Recovery Percentage 1	4.232 %						
Concentration RSD	25.6 %	1.1 %	0.1 %	0.5 %	0.8 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472530-09d4 WG2010517
Analysis started at: 12/18/2024 10:28:37 PM
Rack 3
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	-0.0003 ppm	44.9835 ppm	0.0114 ppm	0.0457 ppm	0.4974 ppm	0.0037 ppm	757.3960 ppm
Concentration per Run 1	-0.0002 ppm	44.8147 ppm	0.0105 ppm	0.0451 ppm	0.4956 ppm	0.0037 ppm	759.9020 ppm
Concentration per Run 2	-0.0003 ppm	45.2887 ppm	0.0116 ppm	0.0461 ppm	0.5006 ppm	0.0038 ppm	755.8381 ppm
Concentration per Run 3	-0.0003 ppm	44.8471 ppm	0.0122 ppm	0.0458 ppm	0.4959 ppm	0.0037 ppm	756.4477 ppm
Concentration RSD	31.3 %	0.6 %	7.5 %	1.1 %	0.6 %	0.5 %	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	-0.0043 ppm	0.0086 ppm	0.0476 ppm	0.0534 ppm	24.8695 ppm	8.8232 ppm	0.0772 ppm
Concentration per Run 1	-0.0044 ppm	0.0087 ppm	0.0475 ppm	0.0538 ppm	24.9388 ppm	8.7959 ppm	0.0740 ppm
Concentration per Run 2	-0.0042 ppm	0.0087 ppm	0.0479 ppm	0.0533 ppm	24.8373 ppm	8.8697 ppm	0.0810 ppm
Concentration per Run 3	-0.0042 ppm	0.0082 ppm	0.0474 ppm	0.0531 ppm	24.8324 ppm	8.8038 ppm	0.0767 ppm
Concentration RSD	2.0 %	3.4 %	0.5 %	0.6 %	0.2 %	0.5 %	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	113.1634 ppm	2.2322 ppm	0.0028 ppm	1.5053 ppm	0.0357 ppm	0.0264 ppm	-0.0009 ppm
Concentration per Run 1	113.2741 ppm	2.2317 ppm	0.0026 ppm	1.4845 ppm	0.0354 ppm	0.0281 ppm	0.0001 ppm
Concentration per Run 2	113.1740 ppm	2.2342 ppm	0.0030 ppm	1.5242 ppm	0.0352 ppm	0.0258 ppm	-0.0003 ppm
Concentration per Run 3	113.0423 ppm	2.2307 ppm	0.0027 ppm	1.5071 ppm	0.0366 ppm	0.0254 ppm	-0.0025 ppm
Concentration RSD	0.1 %	0.1 %	7.9 %	1.3 %	2.2 %	5.6 %	153.0 %

	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	0.0002 ppm	9.9408 ppm	0.0038 ppm	2.3143 ppm	2.1486 ppm	-0.0001 ppm	0.0614 ppm
Concentration per Run 1	0.0005 ppm	9.9664 ppm	0.0030 ppm	2.3096 ppm	2.1525 ppm	-0.0005 ppm	0.0616 ppm
Concentration per Run 2	-0.0004 ppm	9.9128 ppm	0.0041 ppm	2.3249 ppm	2.1409 ppm	0.0003 ppm	0.0611 ppm
Concentration per Run 3	0.0004 ppm	9.9432 ppm	0.0042 ppm	2.3083 ppm	2.1524 ppm	-0.0002 ppm	0.0615 ppm
Concentration RSD	329.9 %	0.3 %	18.0 %	0.4 %	0.3 %	271.0 %	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	0.1073 ppm	88.5538 %	95.6449 %	66.5634 %	90.7095 %	102.3350 %	89.7491 %
Concentration per Run 1	0.1067 ppm	88.3659 %	95.0857 %	66.2475 %	91.0336 %	101.4729 %	89.4011 %
Concentration per Run 2	0.1078 ppm	88.7317 %	96.0938 %	66.7741 %	90.8142 %	103.0245 %	90.1118 %
Concentration per Run 3	0.1072 ppm	88.5639 %	95.7552 %	66.6687 %	90.2805 %	102.5076 %	89.7343 %
Concentration RSD	0.5 %	0.2 %	0.5 %	0.4 %	0.4 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCV
Analysis started at: 12/18/2024 10:33:06 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	0.4685 ppm	0.4710 ppm	0.4613 ppm	0.4652 ppm	0.4923 ppm	0.4955 ppm	0.5194 ppm
Concentration per Run 1	0.4700 ppm	0.4749 ppm	0.4582 ppm	0.4678 ppm	0.4958 ppm	0.4984 ppm	0.5323 ppm
Concentration per Run 2	0.4660 ppm	0.4664 ppm	0.4640 ppm	0.4647 ppm	0.4913 ppm	0.4935 ppm	0.5163 ppm
Concentration per Run 3	0.4696 ppm	0.4716 ppm	0.4615 ppm	0.4630 ppm	0.4899 ppm	0.4945 ppm	0.5096 ppm
Recovery Percentage 1	93.704 %	94.196 %	92.252 %	93.038 %	98.462 %	99.094 %	103.877 %
Concentration RSD	0.5 %	0.9 %	0.6 %	0.5 %	0.6 %	0.5 %	2.2 %

	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	0.4689 ppm	0.4912 ppm	0.4727 ppm	0.4796 ppm	0.4977 ppm	5.1766 ppm	0.5082 ppm
Concentration per Run 1	0.4688 ppm	0.4913 ppm	0.4736 ppm	0.4820 ppm	0.5013 ppm	5.1949 ppm	0.5144 ppm
Concentration per Run 2	0.4698 ppm	0.4910 ppm	0.4715 ppm	0.4769 ppm	0.4951 ppm	5.1862 ppm	0.5073 ppm
Concentration per Run 3	0.4681 ppm	0.4912 ppm	0.4730 ppm	0.4799 ppm	0.4966 ppm	5.1487 ppm	0.5029 ppm
Recovery Percentage 1	93.777 %	98.233 %	94.542 %	95.921 %	99.533 %	103.533 %	101.638 %
Concentration RSD	0.2 %	0.0 %	0.2 %	0.5 %	0.7 %	0.5 %	1.1 %

	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	0.4832 ppm	0.4720 ppm	0.4769 ppm	10.1293 ppm	0.4872 ppm	0.4783 ppm	0.4772 ppm
Concentration per Run 1	0.4857 ppm	0.4742 ppm	0.4746 ppm	10.1048 ppm	0.4874 ppm	0.4800 ppm	0.4779 ppm
Concentration per Run 2	0.4813 ppm	0.4702 ppm	0.4769 ppm	10.1032 ppm	0.4860 ppm	0.4778 ppm	0.4728 ppm
Concentration per Run 3	0.4826 ppm	0.4715 ppm	0.4791 ppm	10.1800 ppm	0.4883 ppm	0.4772 ppm	0.4808 ppm
Recovery Percentage 1	96.643 %	94.393 %	95.373 %	101.293 %	97.446 %	95.661 %	95.432 %
Concentration RSD	0.5 %	0.4 %	0.5 %	0.4 %	0.2 %	0.3 %	0.9 %

	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	0.4766 ppm	5.3168 ppm	0.4884 ppm	0.5229 ppm	0.4775 ppm	0.4710 ppm	0.4817 ppm
Concentration per Run 1	0.4734 ppm	5.3189 ppm	0.4882 ppm	0.5266 ppm	0.4806 ppm	0.4714 ppm	0.4845 ppm
Concentration per Run 2	0.4752 ppm	5.3014 ppm	0.4872 ppm	0.5219 ppm	0.4739 ppm	0.4709 ppm	0.4801 ppm
Concentration per Run 3	0.4811 ppm	5.3301 ppm	0.4898 ppm	0.5200 ppm	0.4781 ppm	0.4705 ppm	0.4804 ppm
Recovery Percentage 1	95.316 %	101.272 %	97.682 %	104.571 %	95.506 %	94.193 %	96.331 %
Concentration RSD	0.8 %	0.3 %	0.3 %	0.6 %	0.7 %	0.1 %	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	0.4699 ppm	101.1073 %	100.1468 %	92.0045 %	95.8671 %	97.8688 %	94.3565 %
Concentration per Run 1	0.4702 ppm	100.5782 %	99.6297 %	91.4037 %	96.0046 %	97.6002 %	93.9005 %
Concentration per Run 2	0.4699 ppm	101.3632 %	100.8189 %	92.5924 %	95.9351 %	98.3255 %	94.8996 %
Concentration per Run 3	0.4697 ppm	101.3806 %	99.9917 %	92.0174 %	95.6615 %	97.6808 %	94.2692 %
Recovery Percentage 1	93.984 %						
Concentration RSD	0.1 %	0.5 %	0.6 %	0.6 %	0.2 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCB
Analysis started at: 12/18/2024 10:37:33 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	-0.0053 ppm	0.0014 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0015 ppm
Concentration per Run 1	-0.0003 ppm	-0.0029 ppm	0.0008 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0016 ppm
Concentration per Run 2	-0.0003 ppm	-0.0053 ppm	0.0016 ppm	-0.0007 ppm	0.0000 ppm	0.0001 ppm	0.0012 ppm
Concentration per Run 3	0.0000 ppm	-0.0077 ppm	0.0019 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0018 ppm
Recovery Percentage 1	-4.323 %	-5.298 %	28.610 %	-0.620 %	-0.072 %	0.857 %	1.529 %
Concentration RSD	82.4 %	45.5 %	39.8 %	299.8 %	208.9 %	31.3 %	19.2 %

	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	0.0001 ppm	-0.0001 ppm	-0.0004 ppm	0.0019 ppm	0.0191 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	-0.0004 ppm	0.0021 ppm	0.0255 ppm	0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0002 ppm	-0.0003 ppm	0.0019 ppm	0.0118 ppm	0.0004 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	0.0001 ppm	-0.0004 ppm	0.0017 ppm	0.0200 ppm	0.0001 ppm
Recovery Percentage 1	0.526 %	0.874 %	-0.795 %	-3.638 %	3.801 %	0.764 %	2.117 %
Concentration RSD	146.2 %	150.1 %	167.8 %	18.3 %	8.5 %	36.3 %	85.5 %

	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	0.0007 ppm	0.0001 ppm	0.0034 ppm	-0.0008 ppm	0.0003 ppm	0.0010 ppm	0.0005 ppm
Concentration per Run 1	-0.0001 ppm	0.0002 ppm	0.0032 ppm	0.0009 ppm	0.0005 ppm	0.0012 ppm	0.0005 ppm
Concentration per Run 2	0.0005 ppm	-0.0001 ppm	0.0035 ppm	-0.0027 ppm	0.0003 ppm	0.0011 ppm	0.0001 ppm
Concentration per Run 3	0.0016 ppm	0.0001 ppm	0.0034 ppm	-0.0006 ppm	0.0001 ppm	0.0006 ppm	0.0010 ppm
Recovery Percentage 1	0.683 %	0.517 %	6.712 %	-0.041 %	1.174 %	9.598 %	1.074 %
Concentration RSD	124.5 %	231.9 %	4.8 %	215.2 %	64.7 %	31.7 %	83.6 %

	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	-0.0002 ppm	0.0056 ppm	0.0006 ppm	0.0001 ppm	0.0004 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 1	-0.0006 ppm	0.0043 ppm	0.0008 ppm	0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 2	0.0004 ppm	0.0062 ppm	0.0006 ppm	0.0001 ppm	0.0003 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 3	-0.0003 ppm	0.0061 ppm	0.0003 ppm	0.0001 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm
Recovery Percentage 1	-1.538 %	1.113 %	1.157 %	0.687 %	3.636 %	1.156 %	0.550 %
Concentration RSD	328.1 %	19.5 %	38.4 %	17.0 %	60.8 %	83.7 %	62.5 %

	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	0.0003 ppm	99.2802 %	99.3806 %	93.8829 %	98.1348 %	99.0303 %	95.9820 %
Concentration per Run 1	0.0005 ppm	98.1589 %	99.4667 %	93.3162 %	98.1121 %	99.1157 %	95.8096 %
Concentration per Run 2	0.0003 ppm	99.2368 %	98.7362 %	93.8147 %	97.8062 %	98.5337 %	95.9474 %
Concentration per Run 3	0.0001 ppm	100.4449 %	99.9389 %	94.5178 %	98.4861 %	99.4415 %	96.1889 %
Recovery Percentage 1	5.639 %						
Concentration RSD	61.3 %	1.2 %	0.6 %	0.6 %	0.3 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2472969-01 WG2010362
Analysis started at: 12/18/2024 10:43:58 PM
Rack 3
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	0.0013 ppm	0.0129 ppm	0.0020 ppm	1.1404 ppm	0.0281 ppm	0.0000 ppm	9.3773 ppm
Concentration per Run 1	0.0011 ppm	0.0117 ppm	0.0024 ppm	1.1458 ppm	0.0283 ppm	0.0000 ppm	9.4680 ppm
Concentration per Run 2	0.0014 ppm	0.0154 ppm	0.0025 ppm	1.1433 ppm	0.0281 ppm	0.0000 ppm	9.3619 ppm
Concentration per Run 3	0.0013 ppm	0.0115 ppm	0.0012 ppm	1.1322 ppm	0.0279 ppm	0.0000 ppm	9.3022 ppm
Concentration RSD	12.9 %	17.3 %	35.2 %	0.6 %	0.7 %	153.7 %	0.9 %

	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	0.0000 ppm	0.0002 ppm	0.0405 ppm	0.6680 ppm	0.0093 ppm	12.4682 ppm	0.0165 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0404 ppm	0.6749 ppm	0.0090 ppm	12.5041 ppm	0.0173 ppm
Concentration per Run 2	0.0001 ppm	0.0005 ppm	0.0409 ppm	0.6667 ppm	0.0096 ppm	12.4959 ppm	0.0162 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0403 ppm	0.6625 ppm	0.0092 ppm	12.4045 ppm	0.0159 ppm
Concentration RSD	297.2 %	93.8 %	0.8 %	0.9 %	3.6 %	0.4 %	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	16.1085 ppm	0.0135 ppm	0.0325 ppm	467.6524 ppm	0.0048 ppm	0.0025 ppm	0.0099 ppm
Concentration per Run 1	16.1098 ppm	0.0136 ppm	0.0324 ppm	466.9634 ppm	0.0050 ppm	0.0031 ppm	0.0103 ppm
Concentration per Run 2	16.2102 ppm	0.0135 ppm	0.0330 ppm	469.2525 ppm	0.0043 ppm	0.0013 ppm	0.0088 ppm
Concentration per Run 3	16.0056 ppm	0.0134 ppm	0.0321 ppm	466.7414 ppm	0.0052 ppm	0.0031 ppm	0.0106 ppm
Concentration RSD	0.6 %	0.7 %	1.4 %	0.3 %	9.6 %	42.2 %	9.8 %

	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	3.3615 ppm	0.0006 ppm	0.0514 ppm	0.0003 ppm	0.0009 ppm	0.0002 ppm
Concentration per Run 1	0.0011 ppm	3.3785 ppm	0.0001 ppm	0.0516 ppm	0.0003 ppm	0.0020 ppm	0.0000 ppm
Concentration per Run 2	0.0009 ppm	3.3714 ppm	0.0008 ppm	0.0514 ppm	0.0002 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 3	0.0001 ppm	3.3347 ppm	0.0010 ppm	0.0510 ppm	0.0002 ppm	0.0007 ppm	0.0002 ppm
Concentration RSD	79.3 %	0.7 %	71.7 %	0.6 %	22.0 %	120.1 %	86.8 %

	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	0.0118 ppm	86.9402 %	95.0195 %	74.5130 %	85.4152 %	94.2037 %	85.9568 %
Concentration per Run 1	0.0117 ppm	86.7222 %	94.2507 %	74.1053 %	85.9066 %	93.9246 %	85.7980 %
Concentration per Run 2	0.0121 ppm	86.6042 %	95.1283 %	74.7439 %	84.9291 %	94.4197 %	85.9885 %
Concentration per Run 3	0.0116 ppm	87.4942 %	95.6794 %	74.6899 %	85.4099 %	94.2667 %	86.0839 %
Concentration RSD	1.9 %	0.6 %	0.8 %	0.5 %	0.6 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473045-07 WG2010362
Analysis started at: 12/18/2024 10:48:45 PM
Rack 3
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	-0.0003 ppm	0.1837 ppm	0.0033 ppm	0.0292 ppm	0.0176 ppm	0.0000 ppm	11.1686 ppm
Concentration per Run 1	-0.0002 ppm	0.1887 ppm	0.0041 ppm	0.0302 ppm	0.0178 ppm	0.0000 ppm	11.1942 ppm
Concentration per Run 2	-0.0003 ppm	0.1794 ppm	0.0027 ppm	0.0287 ppm	0.0176 ppm	0.0000 ppm	11.0986 ppm
Concentration per Run 3	-0.0002 ppm	0.1829 ppm	0.0029 ppm	0.0287 ppm	0.0175 ppm	0.0000 ppm	11.2129 ppm
Concentration RSD	20.1 %	2.5 %	22.3 %	3.0 %	0.8 %	86.1 %	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	0.0001 ppm	0.0008 ppm	0.0118 ppm	0.1215 ppm	7.1855 ppm	84.8503 ppm	0.0031 ppm
Concentration per Run 1	0.0002 ppm	0.0005 ppm	0.0120 ppm	0.1229 ppm	7.2184 ppm	84.6130 ppm	0.0035 ppm
Concentration per Run 2	0.0001 ppm	0.0010 ppm	0.0118 ppm	0.1208 ppm	7.1316 ppm	85.1826 ppm	0.0028 ppm
Concentration per Run 3	0.0000 ppm	0.0008 ppm	0.0117 ppm	0.1207 ppm	7.2064 ppm	84.7554 ppm	0.0029 ppm
Concentration RSD	107.5 %	28.0 %	1.5 %	1.0 %	0.7 %	0.3 %	12.3 %

	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	4.8502 ppm	0.1501 ppm	0.0021 ppm	53.2186 ppm	0.0082 ppm	0.0018 ppm	-0.0008 ppm
Concentration per Run 1	4.8981 ppm	0.1506 ppm	0.0022 ppm	53.0773 ppm	0.0081 ppm	0.0011 ppm	-0.0002 ppm
Concentration per Run 2	4.8567 ppm	0.1489 ppm	0.0018 ppm	53.5420 ppm	0.0086 ppm	0.0027 ppm	-0.0006 ppm
Concentration per Run 3	4.7957 ppm	0.1508 ppm	0.0022 ppm	53.0364 ppm	0.0078 ppm	0.0017 ppm	-0.0016 ppm
Concentration RSD	1.1 %	0.7 %	8.7 %	0.5 %	4.7 %	44.7 %	94.4 %

	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	0.0038 ppm	1.7533 ppm	0.0244 ppm	0.0488 ppm	0.0047 ppm	-0.0005 ppm	0.0009 ppm
Concentration per Run 1	0.0038 ppm	1.7805 ppm	0.0240 ppm	0.0491 ppm	0.0048 ppm	-0.0001 ppm	0.0009 ppm
Concentration per Run 2	0.0055 ppm	1.7509 ppm	0.0247 ppm	0.0483 ppm	0.0048 ppm	-0.0005 ppm	0.0008 ppm
Concentration per Run 3	0.0021 ppm	1.7284 ppm	0.0245 ppm	0.0488 ppm	0.0046 ppm	-0.0008 ppm	0.0009 ppm
Concentration RSD	43.8 %	1.5 %	1.4 %	0.9 %	2.8 %	72.3 %	6.0 %

	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	0.2710 ppm	92.5347 %	98.9168 %	81.7761 %	92.1774 %	98.5032 %	89.0312 %
Concentration per Run 1	0.2750 ppm	91.1926 %	98.7855 %	80.9608 %	91.5356 %	98.4256 %	88.7788 %
Concentration per Run 2	0.2728 ppm	92.6472 %	99.2228 %	81.9195 %	92.6751 %	98.7527 %	89.1120 %
Concentration per Run 3	0.2651 ppm	93.7643 %	98.7420 %	82.4481 %	92.3215 %	98.3312 %	89.2029 %
Concentration RSD	1.9 %	1.4 %	0.3 %	0.9 %	0.6 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473162-01 WG2010362
Analysis started at: 12/18/2024 10:53:14 PM
Rack 3
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	-0.0002 ppm	-0.0015 ppm	0.0015 ppm	0.0126 ppm	0.0261 ppm	0.0000 ppm	29.6005 ppm
Concentration per Run 1	-0.0001 ppm	0.0000 ppm	0.0018 ppm	0.0121 ppm	0.0262 ppm	0.0000 ppm	29.7739 ppm
Concentration per Run 2	-0.0003 ppm	-0.0008 ppm	0.0030 ppm	0.0133 ppm	0.0261 ppm	0.0000 ppm	29.5621 ppm
Concentration per Run 3	-0.0001 ppm	-0.0038 ppm	-0.0001 ppm	0.0123 ppm	0.0259 ppm	0.0000 ppm	29.4656 ppm
Concentration RSD	72.2 %	131.4 %	98.4 %	5.3 %	0.5 %	241.5 %	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	0.0002 ppm	0.0007 ppm	0.0004 ppm	0.0132 ppm	1.2015 ppm	0.0004 ppm
Concentration per Run 1	-0.0001 ppm	0.0002 ppm	0.0008 ppm	0.0004 ppm	0.0136 ppm	1.2153 ppm	0.0006 ppm
Concentration per Run 2	-0.0002 ppm	0.0001 ppm	0.0009 ppm	0.0004 ppm	0.0128 ppm	1.2150 ppm	0.0001 ppm
Concentration per Run 3	-0.0002 ppm	0.0003 ppm	0.0002 ppm	0.0005 ppm	0.0132 ppm	1.1742 ppm	0.0004 ppm
Concentration RSD	25.4 %	62.0 %	55.7 %	16.1 %	3.0 %	2.0 %	76.6 %

	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	9.7874 ppm	0.0011 ppm	0.0008 ppm	4.0284 ppm	0.0008 ppm	0.0004 ppm	-0.0016 ppm
Concentration per Run 1	9.9136 ppm	0.0011 ppm	0.0006 ppm	4.0590 ppm	0.0007 ppm	0.0008 ppm	-0.0014 ppm
Concentration per Run 2	9.7180 ppm	0.0011 ppm	0.0010 ppm	4.0622 ppm	0.0015 ppm	0.0006 ppm	-0.0012 ppm
Concentration per Run 3	9.7307 ppm	0.0011 ppm	0.0008 ppm	3.9639 ppm	0.0002 ppm	-0.0001 ppm	-0.0021 ppm
Concentration RSD	1.1 %	2.7 %	27.6 %	1.4 %	82.7 %	115.2 %	28.7 %

	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	2.9505 ppm	-0.0007 ppm	0.0586 ppm	0.0000 ppm	0.0009 ppm	0.0001 ppm
Concentration per Run 1	0.0044 ppm	2.9741 ppm	-0.0012 ppm	0.0590 ppm	0.0000 ppm	0.0005 ppm	0.0002 ppm
Concentration per Run 2	0.0034 ppm	2.9416 ppm	-0.0005 ppm	0.0587 ppm	0.0002 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 3	-0.0004 ppm	2.9357 ppm	-0.0004 ppm	0.0582 ppm	-0.0001 ppm	0.0015 ppm	0.0001 ppm
Concentration RSD	104.0 %	0.7 %	62.1 %	0.7 %	390.8 %	61.9 %	83.3 %

	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	0.0028 ppm	93.9069 %	97.2082 %	87.9698 %	96.1882 %	98.4093 %	94.2864 %
Concentration per Run 1	0.0028 ppm	92.8538 %	96.6504 %	87.3552 %	96.2448 %	98.0509 %	94.1313 %
Concentration per Run 2	0.0029 ppm	94.4464 %	97.5867 %	88.3506 %	96.8321 %	98.9654 %	94.7736 %
Concentration per Run 3	0.0028 ppm	94.4206 %	97.3875 %	88.2035 %	95.4878 %	98.2117 %	93.9541 %
Concentration RSD	2.6 %	1.0 %	0.5 %	0.6 %	0.7 %	0.5 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473162-02 WG2010362
Analysis started at: 12/18/2024 10:57:43 PM
Rack 3
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	-0.0002 ppm	0.1275 ppm	0.0018 ppm	0.0076 ppm	0.0279 ppm	0.0000 ppm	15.4086 ppm
Concentration per Run 1	-0.0003 ppm	0.1292 ppm	0.0025 ppm	0.0069 ppm	0.0280 ppm	0.0000 ppm	15.5055 ppm
Concentration per Run 2	-0.0002 ppm	0.1251 ppm	0.0007 ppm	0.0080 ppm	0.0279 ppm	0.0000 ppm	15.4726 ppm
Concentration per Run 3	0.0000 ppm	0.1282 ppm	0.0021 ppm	0.0078 ppm	0.0277 ppm	0.0000 ppm	15.2477 ppm
Concentration RSD	88.2 %	1.7 %	51.6 %	7.3 %	0.6 %	1,035.3 %	0.9 %

	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	0.0008 ppm	0.0006 ppm	0.0003 ppm	3.3493 ppm	0.9730 ppm	0.0026 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	0.0007 ppm	0.0004 ppm	3.3670 ppm	0.9788 ppm	0.0028 ppm
Concentration per Run 2	-0.0001 ppm	0.0009 ppm	0.0004 ppm	0.0001 ppm	3.3465 ppm	0.9710 ppm	0.0024 ppm
Concentration per Run 3	-0.0001 ppm	0.0007 ppm	0.0007 ppm	0.0003 ppm	3.3342 ppm	0.9691 ppm	0.0025 ppm
Concentration RSD	74.8 %	18.2 %	27.4 %	49.9 %	0.5 %	0.5 %	8.1 %

	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	5.9456 ppm	0.0534 ppm	0.0004 ppm	8.0877 ppm	0.0013 ppm	0.0003 ppm	-0.0011 ppm
Concentration per Run 1	6.0312 ppm	0.0537 ppm	0.0001 ppm	8.0724 ppm	0.0015 ppm	0.0010 ppm	0.0016 ppm
Concentration per Run 2	5.9154 ppm	0.0534 ppm	0.0005 ppm	8.1745 ppm	0.0013 ppm	0.0003 ppm	-0.0039 ppm
Concentration per Run 3	5.8903 ppm	0.0529 ppm	0.0005 ppm	8.0161 ppm	0.0010 ppm	-0.0004 ppm	-0.0010 ppm
Concentration RSD	1.3 %	0.7 %	65.2 %	1.0 %	19.0 %	247.5 %	247.0 %

	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	0.0021 ppm	9.9222 ppm	-0.0003 ppm	0.0863 ppm	0.0057 ppm	0.0010 ppm	0.0002 ppm
Concentration per Run 1	0.0053 ppm	10.0847 ppm	-0.0002 ppm	0.0869 ppm	0.0060 ppm	0.0014 ppm	0.0001 ppm
Concentration per Run 2	0.0003 ppm	9.8511 ppm	0.0000 ppm	0.0863 ppm	0.0056 ppm	0.0006 ppm	0.0003 ppm
Concentration per Run 3	0.0006 ppm	9.8309 ppm	-0.0005 ppm	0.0857 ppm	0.0056 ppm	0.0009 ppm	0.0002 ppm
Concentration RSD	135.0 %	1.4 %	89.6 %	0.7 %	4.3 %	41.1 %	48.5 %

	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	0.0015 ppm	94.8183 %	99.1374 %	89.5545 %	96.0587 %	99.1824 %	94.9230 %
Concentration per Run 1	0.0016 ppm	93.3312 %	98.3053 %	88.8388 %	95.9846 %	98.6036 %	95.1505 %
Concentration per Run 2	0.0015 ppm	95.5340 %	98.9417 %	89.5232 %	96.7662 %	99.5792 %	94.7775 %
Concentration per Run 3	0.0016 ppm	95.5898 %	100.1653 %	90.3015 %	95.4254 %	99.3643 %	94.8410 %
Concentration RSD	5.1 %	1.4 %	1.0 %	0.8 %	0.7 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473162-03 WG2010362
Analysis started at: 12/18/2024 11:02:12 PM
Rack 3
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	-0.0045 ppm	0.0010 ppm	0.0190 ppm	0.0369 ppm	0.0000 ppm	23.8550 ppm
Concentration per Run 1	-0.0005 ppm	-0.0071 ppm	0.0005 ppm	0.0194 ppm	0.0372 ppm	0.0000 ppm	23.8160 ppm
Concentration per Run 2	-0.0002 ppm	-0.0045 ppm	0.0019 ppm	0.0183 ppm	0.0370 ppm	0.0000 ppm	23.9041 ppm
Concentration per Run 3	-0.0002 ppm	-0.0019 ppm	0.0007 ppm	0.0193 ppm	0.0366 ppm	0.0000 ppm	23.8450 ppm
Concentration RSD	55.7 %	58.5 %	74.6 %	3.2 %	0.7 %	146.3 %	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	0.0003 ppm	0.0008 ppm	0.0003 ppm	0.0152 ppm	3.1030 ppm	0.0006 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	0.0008 ppm	0.0001 ppm	0.0148 ppm	3.1185 ppm	0.0006 ppm
Concentration per Run 2	-0.0001 ppm	0.0003 ppm	0.0005 ppm	0.0004 ppm	0.0160 ppm	3.1084 ppm	0.0008 ppm
Concentration per Run 3	-0.0002 ppm	0.0002 ppm	0.0009 ppm	0.0003 ppm	0.0148 ppm	3.0822 ppm	0.0004 ppm
Concentration RSD	24.0 %	15.6 %	29.4 %	51.2 %	4.4 %	0.6 %	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	4.3717 ppm	0.0004 ppm	0.0009 ppm	9.8203 ppm	0.0006 ppm	0.0006 ppm	-0.0023 ppm
Concentration per Run 1	4.4210 ppm	0.0004 ppm	0.0007 ppm	9.8364 ppm	0.0008 ppm	-0.0001 ppm	-0.0006 ppm
Concentration per Run 2	4.3610 ppm	0.0004 ppm	0.0009 ppm	9.8943 ppm	0.0006 ppm	0.0013 ppm	-0.0043 ppm
Concentration per Run 3	4.3332 ppm	0.0003 ppm	0.0012 ppm	9.7302 ppm	0.0006 ppm	0.0005 ppm	-0.0019 ppm
Concentration RSD	1.0 %	24.0 %	22.7 %	0.8 %	15.4 %	115.6 %	82.1 %

	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	0.0005 ppm	3.6983 ppm	0.0001 ppm	0.0830 ppm	-0.0001 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 1	0.0008 ppm	3.7382 ppm	-0.0004 ppm	0.0835 ppm	0.0000 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 2	0.0011 ppm	3.6885 ppm	0.0006 ppm	0.0831 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 3	-0.0002 ppm	3.6682 ppm	0.0001 ppm	0.0824 ppm	-0.0001 ppm	0.0004 ppm	0.0002 ppm
Concentration RSD	121.0 %	1.0 %	597.0 %	0.7 %	119.9 %	104.3 %	125.5 %

	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	0.0016 ppm	93.7789 %	98.2111 %	87.8554 %	95.9419 %	99.3564 %	94.1652 %
Concentration per Run 1	0.0015 ppm	92.9049 %	98.4207 %	86.9897 %	96.3753 %	100.1634 %	94.1389 %
Concentration per Run 2	0.0017 ppm	93.9524 %	97.5177 %	88.0594 %	95.8564 %	98.7097 %	94.3325 %
Concentration per Run 3	0.0015 ppm	94.4792 %	98.6950 %	88.5173 %	95.5941 %	99.1961 %	94.0240 %
Concentration RSD	7.3 %	0.9 %	0.6 %	0.9 %	0.4 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473162-06 WG2010362
Analysis started at: 12/18/2024 11:06:41 PM
Rack 3
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	0.0689 ppm	0.0014 ppm	0.0958 ppm	0.0141 ppm	0.0000 ppm	17.8988 ppm
Concentration per Run 1	0.0000 ppm	0.0693 ppm	0.0022 ppm	0.0984 ppm	0.0142 ppm	0.0000 ppm	18.0341 ppm
Concentration per Run 2	-0.0004 ppm	0.0665 ppm	0.0000 ppm	0.0957 ppm	0.0140 ppm	0.0000 ppm	17.7751 ppm
Concentration per Run 3	-0.0002 ppm	0.0707 ppm	0.0019 ppm	0.0932 ppm	0.0140 ppm	0.0000 ppm	17.8871 ppm
Concentration RSD	117.6 %	3.1 %	85.1 %	2.8 %	0.9 %	105.4 %	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	-0.0001 ppm	0.0001 ppm	0.0019 ppm	0.0003 ppm	0.0825 ppm	1.5020 ppm	0.0028 ppm
Concentration per Run 1	-0.0001 ppm	-0.0002 ppm	0.0018 ppm	0.0005 ppm	0.0833 ppm	1.5358 ppm	0.0030 ppm
Concentration per Run 2	-0.0001 ppm	0.0002 ppm	0.0016 ppm	0.0002 ppm	0.0830 ppm	1.4936 ppm	0.0024 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0022 ppm	0.0002 ppm	0.0812 ppm	1.4766 ppm	0.0030 ppm
Concentration RSD	67.2 %	262.3 %	17.3 %	43.8 %	1.4 %	2.0 %	13.6 %

	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	9.2427 ppm	0.0028 ppm	0.0003 ppm	14.6779 ppm	0.0014 ppm	0.0005 ppm	-0.0016 ppm
Concentration per Run 1	9.3232 ppm	0.0028 ppm	0.0003 ppm	14.6665 ppm	0.0014 ppm	0.0005 ppm	-0.0011 ppm
Concentration per Run 2	9.2808 ppm	0.0028 ppm	0.0004 ppm	14.6014 ppm	0.0015 ppm	0.0003 ppm	-0.0023 ppm
Concentration per Run 3	9.1241 ppm	0.0027 ppm	0.0003 ppm	14.7656 ppm	0.0014 ppm	0.0006 ppm	-0.0015 ppm
Concentration RSD	1.1 %	2.9 %	21.0 %	0.6 %	6.6 %	30.2 %	38.3 %

	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	10.3798 ppm	0.0001 ppm	0.0930 ppm	0.0020 ppm	0.0008 ppm	0.0014 ppm
Concentration per Run 1	-0.0002 ppm	10.5240 ppm	0.0006 ppm	0.0937 ppm	0.0021 ppm	0.0015 ppm	0.0015 ppm
Concentration per Run 2	0.0008 ppm	10.4202 ppm	0.0004 ppm	0.0930 ppm	0.0019 ppm	0.0003 ppm	0.0013 ppm
Concentration per Run 3	0.0006 ppm	10.1953 ppm	-0.0007 ppm	0.0924 ppm	0.0018 ppm	0.0007 ppm	0.0014 ppm
Concentration RSD	132.1 %	1.6 %	798.3 %	0.7 %	8.7 %	73.8 %	6.2 %

	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	0.0018 ppm	93.4243 %	97.4123 %	87.3900 %	95.5238 %	97.9461 %	93.7865 %
Concentration per Run 1	0.0019 ppm	92.6191 %	96.5881 %	86.8382 %	96.0093 %	97.3526 %	93.9218 %
Concentration per Run 2	0.0018 ppm	93.2570 %	98.4482 %	88.0133 %	95.4066 %	98.6021 %	94.2855 %
Concentration per Run 3	0.0017 ppm	94.3969 %	97.2005 %	87.3184 %	95.1554 %	97.8836 %	93.1522 %
Concentration RSD	4.1 %	1.0 %	1.0 %	0.7 %	0.5 %	0.6 %	0.6 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010362-7 WG2010362
Analysis started at: 12/18/2024 11:11:10 PM
Rack 3
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	0.0523 ppm	2.2999 ppm	0.1236 ppm	1.1065 ppm	2.1022 ppm	0.0523 ppm	27.6432 ppm
Concentration per Run 1	0.0527 ppm	2.2998 ppm	0.1240 ppm	1.1198 ppm	2.0969 ppm	0.0521 ppm	27.6138 ppm
Concentration per Run 2	0.0525 ppm	2.2915 ppm	0.1222 ppm	1.1051 ppm	2.0980 ppm	0.0525 ppm	27.8151 ppm
Concentration per Run 3	0.0517 ppm	2.3084 ppm	0.1245 ppm	1.0947 ppm	2.1116 ppm	0.0523 ppm	27.5008 ppm
Concentration RSD	0.9 %	0.4 %	1.0 %	1.1 %	0.4 %	0.4 %	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	0.0539 ppm	0.5221 ppm	0.2102 ppm	0.2691 ppm	1.0940 ppm	12.7537 ppm	0.0029 ppm
Concentration per Run 1	0.0544 ppm	0.5292 ppm	0.2133 ppm	0.2726 ppm	1.0926 ppm	12.7531 ppm	0.0032 ppm
Concentration per Run 2	0.0539 ppm	0.5219 ppm	0.2109 ppm	0.2686 ppm	1.0999 ppm	12.6338 ppm	0.0031 ppm
Concentration per Run 3	0.0535 ppm	0.5153 ppm	0.2064 ppm	0.2661 ppm	1.0894 ppm	12.8741 ppm	0.0025 ppm
Concentration RSD	0.9 %	1.3 %	1.7 %	1.2 %	0.5 %	0.9 %	12.5 %

	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	19.4628 ppm	0.5008 ppm	0.8680 ppm	25.6466 ppm	0.5090 ppm	0.5624 ppm	0.4535 ppm
Concentration per Run 1	19.7253 ppm	0.4991 ppm	0.8701 ppm	25.6508 ppm	0.5171 ppm	0.5655 ppm	0.4598 ppm
Concentration per Run 2	19.5534 ppm	0.5039 ppm	0.8666 ppm	25.2968 ppm	0.5089 ppm	0.5617 ppm	0.4523 ppm
Concentration per Run 3	19.1095 ppm	0.4995 ppm	0.8674 ppm	25.9921 ppm	0.5008 ppm	0.5599 ppm	0.4484 ppm
Concentration RSD	1.6 %	0.5 %	0.2 %	1.4 %	1.6 %	0.5 %	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	0.1248 ppm	11.1671 ppm	0.9780 ppm	1.1328 ppm	1.0404 ppm	0.1266 ppm	0.5429 ppm
Concentration per Run 1	0.1246 ppm	11.3205 ppm	0.9905 ppm	1.1293 ppm	1.0552 ppm	0.1260 ppm	0.5493 ppm
Concentration per Run 2	0.1247 ppm	11.1655 ppm	0.9776 ppm	1.1338 ppm	1.0418 ppm	0.1259 ppm	0.5438 ppm
Concentration per Run 3	0.1250 ppm	11.0154 ppm	0.9661 ppm	1.1353 ppm	1.0241 ppm	0.1278 ppm	0.5355 ppm
Concentration RSD	0.2 %	1.4 %	1.2 %	0.3 %	1.5 %	0.9 %	1.3 %

	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	93.5285 %	98.2576 %	83.4259 %	93.2368 %	97.7728 %	91.9875 %
Concentration per Run 1	0.5138 ppm	92.2106 %	98.5467 %	83.0413 %	93.0541 %	97.9123 %	92.2300 %
Concentration per Run 2	0.5063 ppm	93.3473 %	97.6660 %	83.7899 %	93.1162 %	97.7096 %	92.2504 %
Concentration per Run 3	0.4937 ppm	95.0275 %	98.5603 %	83.4465 %	93.5399 %	97.6966 %	91.4820 %
Concentration RSD	2.0 %	1.5 %	0.5 %	0.4 %	0.3 %	0.1 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010362-8 WG2010362
Analysis started at: 12/18/2024 11:15:39 PM
Rack 3
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	0.0509 ppm	2.2585 ppm	0.1179 ppm	1.0753 ppm	2.0607 ppm	0.0509 ppm	26.9670 ppm
Concentration per Run 1	0.0515 ppm	2.2858 ppm	0.1175 ppm	1.0881 ppm	2.0701 ppm	0.0512 ppm	27.0593 ppm
Concentration per Run 2	0.0506 ppm	2.2394 ppm	0.1157 ppm	1.0688 ppm	2.0499 ppm	0.0504 ppm	26.6955 ppm
Concentration per Run 3	0.0505 ppm	2.2501 ppm	0.1204 ppm	1.0689 ppm	2.0622 ppm	0.0512 ppm	27.1462 ppm
Concentration RSD	1.1 %	1.1 %	2.0 %	1.0 %	0.5 %	0.9 %	0.9 %

	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	0.0526 ppm	0.5056 ppm	0.2035 ppm	0.2620 ppm	1.0653 ppm	12.4451 ppm	0.0027 ppm
Concentration per Run 1	0.0531 ppm	0.5113 ppm	0.2067 ppm	0.2640 ppm	1.0637 ppm	12.5358 ppm	0.0036 ppm
Concentration per Run 2	0.0524 ppm	0.5040 ppm	0.2029 ppm	0.2620 ppm	1.0588 ppm	12.3590 ppm	0.0019 ppm
Concentration per Run 3	0.0522 ppm	0.5014 ppm	0.2009 ppm	0.2601 ppm	1.0732 ppm	12.4406 ppm	0.0025 ppm
Concentration RSD	0.9 %	1.0 %	1.4 %	0.8 %	0.7 %	0.7 %	31.4 %

	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	18.9175 ppm	0.4871 ppm	0.8493 ppm	25.1218 ppm	0.4934 ppm	0.5425 ppm	0.4512 ppm
Concentration per Run 1	19.1985 ppm	0.4898 ppm	0.8476 ppm	25.2117 ppm	0.4982 ppm	0.5469 ppm	0.4513 ppm
Concentration per Run 2	18.8526 ppm	0.4826 ppm	0.8447 ppm	25.0742 ppm	0.4925 ppm	0.5388 ppm	0.4510 ppm
Concentration per Run 3	18.7013 ppm	0.4891 ppm	0.8555 ppm	25.0794 ppm	0.4896 ppm	0.5419 ppm	0.4513 ppm
Concentration RSD	1.3 %	0.8 %	0.7 %	0.3 %	0.9 %	0.8 %	0.0 %

	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	0.1228 ppm	10.9125 ppm	0.9503 ppm	1.1035 ppm	1.0077 ppm	0.1227 ppm	0.5269 ppm
Concentration per Run 1	0.1210 ppm	11.0500 ppm	0.9563 ppm	1.1084 ppm	1.0203 ppm	0.1236 ppm	0.5335 ppm
Concentration per Run 2	0.1237 ppm	10.8667 ppm	0.9437 ppm	1.0941 ppm	1.0041 ppm	0.1219 ppm	0.5247 ppm
Concentration per Run 3	0.1237 ppm	10.8207 ppm	0.9508 ppm	1.1079 ppm	0.9986 ppm	0.1227 ppm	0.5224 ppm
Concentration RSD	1.3 %	1.1 %	0.7 %	0.7 %	1.1 %	0.7 %	1.1 %

	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	0.4881 ppm	93.9702 %	98.1335 %	83.9783 %	93.8799 %	97.6590 %	92.2760 %
Concentration per Run 1	0.4941 ppm	92.8780 %	97.7000 %	83.3682 %	94.0761 %	97.7941 %	92.4368 %
Concentration per Run 2	0.4873 ppm	94.0654 %	98.9705 %	84.4494 %	93.6791 %	98.1865 %	92.5379 %
Concentration per Run 3	0.4830 ppm	94.9671 %	97.7299 %	84.1175 %	93.8846 %	96.9965 %	91.8531 %
Concentration RSD	1.1 %	1.1 %	0.7 %	0.7 %	0.2 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010362-9 WG2010362
Analysis started at: 12/18/2024 11:20:08 PM
Rack 3
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	0.0537 ppm	2.2069 ppm	0.1261 ppm	1.1649 ppm	2.1595 ppm	0.0540 ppm	27.7547 ppm
Concentration per Run 1	0.0542 ppm	2.2264 ppm	0.1271 ppm	1.1778 ppm	2.1784 ppm	0.0543 ppm	27.8471 ppm
Concentration per Run 2	0.0539 ppm	2.1871 ppm	0.1257 ppm	1.1620 ppm	2.1467 ppm	0.0537 ppm	27.6490 ppm
Concentration per Run 3	0.0531 ppm	2.2073 ppm	0.1256 ppm	1.1550 ppm	2.1534 ppm	0.0540 ppm	27.7680 ppm
Concentration RSD	1.1 %	0.9 %	0.7 %	1.0 %	0.8 %	0.6 %	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	0.0553 ppm	0.5443 ppm	0.2191 ppm	0.2837 ppm	1.1510 ppm	13.2308 ppm	0.0028 ppm
Concentration per Run 1	0.0561 ppm	0.5525 ppm	0.2223 ppm	0.2861 ppm	1.1595 ppm	13.3061 ppm	0.0035 ppm
Concentration per Run 2	0.0551 ppm	0.5420 ppm	0.2195 ppm	0.2825 ppm	1.1443 ppm	13.0458 ppm	0.0024 ppm
Concentration per Run 3	0.0546 ppm	0.5385 ppm	0.2155 ppm	0.2824 ppm	1.1493 ppm	13.3406 ppm	0.0024 ppm
Concentration RSD	1.5 %	1.3 %	1.6 %	0.7 %	0.7 %	1.2 %	22.8 %

	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	19.9756 ppm	0.5264 ppm	0.9282 ppm	25.7446 ppm	0.5466 ppm	0.5812 ppm	0.4097 ppm
Concentration per Run 1	20.2792 ppm	0.5292 ppm	0.9289 ppm	25.6154 ppm	0.5529 ppm	0.5876 ppm	0.4065 ppm
Concentration per Run 2	19.9446 ppm	0.5242 ppm	0.9264 ppm	25.5658 ppm	0.5473 ppm	0.5827 ppm	0.4093 ppm
Concentration per Run 3	19.7031 ppm	0.5258 ppm	0.9293 ppm	26.0526 ppm	0.5397 ppm	0.5733 ppm	0.4134 ppm
Concentration RSD	1.4 %	0.5 %	0.2 %	1.0 %	1.2 %	1.3 %	0.8 %

	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	0.1309 ppm	10.9343 ppm	1.0578 ppm	1.1906 ppm	1.1175 ppm	0.1305 ppm	0.5672 ppm
Concentration per Run 1	0.1331 ppm	11.0452 ppm	1.0686 ppm	1.1996 ppm	1.1282 ppm	0.1320 ppm	0.5739 ppm
Concentration per Run 2	0.1300 ppm	10.8876 ppm	1.0598 ppm	1.1847 ppm	1.1161 ppm	0.1300 ppm	0.5664 ppm
Concentration per Run 3	0.1296 ppm	10.8703 ppm	1.0450 ppm	1.1877 ppm	1.1081 ppm	0.1295 ppm	0.5612 ppm
Concentration RSD	1.4 %	0.9 %	1.1 %	0.7 %	0.9 %	1.0 %	1.1 %

	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	0.5412 ppm	93.9162 %	98.3579 %	83.7075 %	93.0712 %	97.6126 %	92.1407 %
Concentration per Run 1	0.5506 ppm	93.0413 %	98.1279 %	83.1292 %	93.6005 %	97.9779 %	92.0322 %
Concentration per Run 2	0.5405 ppm	94.0427 %	98.4989 %	83.6934 %	92.9706 %	97.0354 %	92.1800 %
Concentration per Run 3	0.5324 ppm	94.6646 %	98.4469 %	84.2999 %	92.6425 %	97.8244 %	92.2098 %
Concentration RSD	1.7 %	0.9 %	0.2 %	0.7 %	0.5 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: WG2010362-10d5 WG2010362
Analysis started at: 12/18/2024 11:24:37 PM
Rack 3
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	0.0000 ppm	0.0094 ppm	0.0012 ppm	0.0172 ppm	0.0028 ppm	0.0000 ppm	3.4860 ppm
Concentration per Run 1	-0.0001 ppm	0.0098 ppm	0.0017 ppm	0.0172 ppm	0.0028 ppm	0.0000 ppm	3.4810 ppm
Concentration per Run 2	0.0000 ppm	0.0091 ppm	0.0000 ppm	0.0172 ppm	0.0028 ppm	0.0000 ppm	3.4919 ppm
Concentration per Run 3	0.0000 ppm	0.0094 ppm	0.0020 ppm	0.0172 ppm	0.0029 ppm	0.0000 ppm	3.4851 ppm
Concentration RSD	71.0 %	3.7 %	85.9 %	0.1 %	1.8 %	388.6 %	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	0.0002 ppm	0.0004 ppm	-0.0003 ppm	0.0196 ppm	0.3088 ppm	0.0009 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	0.0005 ppm	-0.0003 ppm	0.0206 ppm	0.3050 ppm	0.0010 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0004 ppm	-0.0002 ppm	0.0179 ppm	0.3135 ppm	0.0009 ppm
Concentration per Run 3	-0.0001 ppm	0.0003 ppm	0.0003 ppm	-0.0003 ppm	0.0203 ppm	0.3079 ppm	0.0009 ppm
Concentration RSD	117.7 %	67.7 %	29.7 %	21.9 %	7.6 %	1.4 %	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	1.7429 ppm	0.0006 ppm	0.0167 ppm	2.8211 ppm	0.0005 ppm	0.0002 ppm	0.0200 ppm
Concentration per Run 1	1.7592 ppm	0.0006 ppm	0.0171 ppm	2.8280 ppm	0.0008 ppm	0.0013 ppm	0.0213 ppm
Concentration per Run 2	1.7377 ppm	0.0006 ppm	0.0166 ppm	2.8009 ppm	0.0005 ppm	-0.0002 ppm	0.0202 ppm
Concentration per Run 3	1.7317 ppm	0.0006 ppm	0.0164 ppm	2.8344 ppm	0.0002 ppm	-0.0004 ppm	0.0183 ppm
Concentration RSD	0.8 %	5.5 %	2.2 %	0.6 %	52.0 %	420.1 %	7.6 %

	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	1.8767 ppm	0.0153 ppm	0.0181 ppm	0.0010 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 1	-0.0004 ppm	1.8949 ppm	0.0162 ppm	0.0180 ppm	0.0011 ppm	0.0007 ppm	0.0003 ppm
Concentration per Run 2	0.0008 ppm	1.8711 ppm	0.0148 ppm	0.0181 ppm	0.0010 ppm	0.0005 ppm	0.0002 ppm
Concentration per Run 3	0.0004 ppm	1.8642 ppm	0.0149 ppm	0.0182 ppm	0.0009 ppm	-0.0011 ppm	0.0002 ppm
Concentration RSD	200.3 %	0.9 %	4.9 %	0.7 %	6.1 %	1,791.6 %	7.0 %

	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	0.0007 ppm	100.4401 %	100.8265 %	93.7172 %	97.6330 %	99.2695 %	95.5981 %
Concentration per Run 1	0.0007 ppm	99.2212 %	101.0242 %	93.2740 %	97.0629 %	99.8658 %	95.5971 %
Concentration per Run 2	0.0006 ppm	100.6152 %	100.4494 %	93.6997 %	98.0006 %	98.7627 %	95.5493 %
Concentration per Run 3	0.0007 ppm	101.4837 %	101.0059 %	94.1779 %	97.8354 %	99.1802 %	95.6479 %
Concentration RSD	8.6 %	1.1 %	0.3 %	0.5 %	0.5 %	0.6 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCV
Analysis started at: 12/18/2024 11:29:06 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	0.4701 ppm	0.4671 ppm	0.4635 ppm	0.4657 ppm	0.4915 ppm	0.4945 ppm	0.4737 ppm
Concentration per Run 1	0.4739 ppm	0.4684 ppm	0.4613 ppm	0.4701 ppm	0.4905 ppm	0.4957 ppm	0.4716 ppm
Concentration per Run 2	0.4716 ppm	0.4664 ppm	0.4674 ppm	0.4704 ppm	0.4923 ppm	0.4950 ppm	0.4753 ppm
Concentration per Run 3	0.4648 ppm	0.4665 ppm	0.4618 ppm	0.4567 ppm	0.4918 ppm	0.4930 ppm	0.4742 ppm
Recovery Percentage 1	94.016 %	93.424 %	92.700 %	93.142 %	98.300 %	98.909 %	94.744 %
Concentration RSD	1.0 %	0.2 %	0.7 %	1.7 %	0.2 %	0.3 %	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	0.4686 ppm	0.4896 ppm	0.4745 ppm	0.4801 ppm	0.4901 ppm	5.1936 ppm	0.5090 ppm
Concentration per Run 1	0.4743 ppm	0.4948 ppm	0.4777 ppm	0.4845 ppm	0.4886 ppm	5.2151 ppm	0.5075 ppm
Concentration per Run 2	0.4692 ppm	0.4910 ppm	0.4777 ppm	0.4822 ppm	0.4897 ppm	5.2024 ppm	0.5082 ppm
Concentration per Run 3	0.4625 ppm	0.4831 ppm	0.4681 ppm	0.4736 ppm	0.4922 ppm	5.1634 ppm	0.5112 ppm
Recovery Percentage 1	93.729 %	97.928 %	94.900 %	96.022 %	98.030 %	103.872 %	101.796 %
Concentration RSD	1.3 %	1.2 %	1.2 %	1.2 %	0.4 %	0.5 %	0.4 %

	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	0.4763 ppm	0.4717 ppm	0.4812 ppm	10.2215 ppm	0.4897 ppm	0.4785 ppm	0.4895 ppm
Concentration per Run 1	0.4787 ppm	0.4722 ppm	0.4831 ppm	10.2159 ppm	0.4923 ppm	0.4808 ppm	0.4948 ppm
Concentration per Run 2	0.4796 ppm	0.4713 ppm	0.4823 ppm	10.0674 ppm	0.4933 ppm	0.4784 ppm	0.4933 ppm
Concentration per Run 3	0.4705 ppm	0.4716 ppm	0.4783 ppm	10.3810 ppm	0.4836 ppm	0.4763 ppm	0.4804 ppm
Recovery Percentage 1	95.252 %	94.344 %	96.250 %	102.215 %	97.947 %	95.702 %	97.903 %
Concentration RSD	1.1 %	0.1 %	0.5 %	1.5 %	1.1 %	0.5 %	1.6 %

	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	0.4793 ppm	5.3307 ppm	0.4937 ppm	0.5211 ppm	0.4782 ppm	0.4719 ppm	0.4820 ppm
Concentration per Run 1	0.4758 ppm	5.3703 ppm	0.4996 ppm	0.5221 ppm	0.4802 ppm	0.4723 ppm	0.4851 ppm
Concentration per Run 2	0.4823 ppm	5.3603 ppm	0.4956 ppm	0.5220 ppm	0.4812 ppm	0.4730 ppm	0.4849 ppm
Concentration per Run 3	0.4798 ppm	5.2614 ppm	0.4858 ppm	0.5191 ppm	0.4731 ppm	0.4704 ppm	0.4760 ppm
Recovery Percentage 1	95.863 %	101.537 %	98.731 %	104.214 %	95.633 %	94.386 %	96.400 %
Concentration RSD	0.7 %	1.1 %	1.4 %	0.3 %	0.9 %	0.3 %	1.1 %

	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	0.4679 ppm	101.0364 %	100.4596 %	92.3482 %	95.6450 %	98.2172 %	94.4773 %
Concentration per Run 1	0.4720 ppm	100.3992 %	100.2734 %	92.2339 %	95.2122 %	98.5474 %	94.8462 %
Concentration per Run 2	0.4695 ppm	100.7276 %	100.4350 %	91.8475 %	95.5450 %	97.8782 %	93.5900 %
Concentration per Run 3	0.4623 ppm	101.9824 %	100.6704 %	92.9631 %	96.1778 %	98.2261 %	94.9956 %
Recovery Percentage 1	93.582 %						
Concentration RSD	1.1 %	0.8 %	0.2 %	0.6 %	0.5 %	0.3 %	0.8 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCB
Analysis started at: 12/18/2024 11:33:33 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	-0.0001 ppm	-0.0042 ppm	0.0018 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 1	-0.0002 ppm	-0.0050 ppm	0.0023 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0014 ppm
Concentration per Run 2	-0.0001 ppm	-0.0055 ppm	0.0023 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 3	0.0001 ppm	-0.0020 ppm	0.0009 ppm	-0.0005 ppm	-0.0001 ppm	0.0000 ppm	0.0006 ppm
Recovery Percentage 1	-2.230 %	-4.175 %	36.714 %	-1.217 %	-0.371 %	0.615 %	-0.394 %
Concentration RSD	133.4 %	45.4 %	43.3 %	54.6 %	72.4 %	23.4 %	258.8 %

	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	0.0002 ppm	0.0000 ppm	-0.0003 ppm	0.0015 ppm	0.0205 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0003 ppm	0.0012 ppm	0.0259 ppm	-0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0002 ppm	-0.0004 ppm	0.0017 ppm	0.0169 ppm	0.0004 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	0.0001 ppm	-0.0003 ppm	0.0017 ppm	0.0188 ppm	0.0006 ppm
Recovery Percentage 1	-0.037 %	2.040 %	-0.120 %	-2.953 %	3.037 %	0.822 %	1.202 %
Concentration RSD	3,973.7 %	25.5 %	1,410.2 %	18.7 %	20.8 %	23.1 %	525.9 %

	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	-0.0010 ppm	0.0001 ppm	0.0048 ppm	0.0056 ppm	0.0002 ppm	0.0003 ppm	0.0026 ppm
Concentration per Run 1	-0.0012 ppm	0.0001 ppm	0.0049 ppm	0.0037 ppm	0.0005 ppm	-0.0003 ppm	0.0025 ppm
Concentration per Run 2	-0.0009 ppm	0.0001 ppm	0.0046 ppm	0.0054 ppm	0.0002 ppm	0.0003 ppm	0.0030 ppm
Concentration per Run 3	-0.0008 ppm	0.0000 ppm	0.0049 ppm	0.0078 ppm	0.0000 ppm	0.0008 ppm	0.0022 ppm
Recovery Percentage 1	-0.957 %	0.547 %	9.630 %	0.282 %	0.876 %	2.716 %	5.127 %
Concentration RSD	23.7 %	30.4 %	4.6 %	36.6 %	117.8 %	201.8 %	16.9 %

	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	0.0005 ppm	0.0022 ppm	0.0001 ppm	0.0003 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run 1	0.0013 ppm	0.0015 ppm	0.0017 ppm	0.0001 ppm	0.0003 ppm	0.0006 ppm	0.0001 ppm
Concentration per Run 2	0.0015 ppm	-0.0005 ppm	0.0032 ppm	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 3	0.0008 ppm	0.0005 ppm	0.0017 ppm	0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0002 ppm
Recovery Percentage 1	12.006 %	0.098 %	4.384 %	0.797 %	2.543 %	1.746 %	0.767 %
Concentration RSD	31.6 %	207.0 %	39.3 %	52.6 %	18.3 %	107.3 %	131.4 %

	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	0.0002 ppm	99.1026 %	99.3041 %	93.7230 %	98.2859 %	98.7781 %	96.0786 %
Concentration per Run 1	0.0002 ppm	97.9384 %	98.7293 %	92.8268 %	98.4507 %	98.8389 %	95.5371 %
Concentration per Run 2	0.0004 ppm	99.1607 %	99.2251 %	94.2943 %	98.1254 %	98.6579 %	96.6354 %
Concentration per Run 3	0.0002 ppm	100.2088 %	99.9579 %	94.0479 %	98.2817 %	98.8376 %	96.0634 %
Recovery Percentage 1	4.960 %						
Concentration RSD	39.6 %	1.1 %	0.6 %	0.8 %	0.2 %	0.1 %	0.6 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473162-04 WG2010362
Analysis started at: 12/18/2024 11:38:01 PM
Rack 3
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	-0.0001 ppm	0.0153 ppm	0.0027 ppm	0.0261 ppm	0.0229 ppm	0.0000 ppm	9.9803 ppm
Concentration per Run 1	-0.0003 ppm	0.0137 ppm	0.0037 ppm	0.0258 ppm	0.0230 ppm	0.0000 ppm	9.9944 ppm
Concentration per Run 2	0.0001 ppm	0.0158 ppm	0.0028 ppm	0.0269 ppm	0.0228 ppm	0.0000 ppm	10.0482 ppm
Concentration per Run 3	-0.0001 ppm	0.0165 ppm	0.0016 ppm	0.0257 ppm	0.0229 ppm	0.0000 ppm	9.8982 ppm
Concentration RSD	231.1 %	9.7 %	38.5 %	2.6 %	0.5 %	503.5 %	0.8 %

	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	0.0024 ppm	0.0007 ppm	0.0002 ppm	2.8322 ppm	1.0125 ppm	0.0013 ppm
Concentration per Run 1	-0.0001 ppm	0.0026 ppm	0.0007 ppm	0.0001 ppm	2.8281 ppm	1.0266 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0022 ppm	0.0006 ppm	0.0002 ppm	2.8545 ppm	0.9974 ppm	0.0012 ppm
Concentration per Run 3	-0.0001 ppm	0.0025 ppm	0.0007 ppm	0.0002 ppm	2.8141 ppm	1.0137 ppm	0.0017 ppm
Concentration RSD	64.7 %	8.0 %	12.3 %	21.4 %	0.7 %	1.4 %	34.8 %

	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	4.6839 ppm	0.0341 ppm	0.0012 ppm	9.1115 ppm	0.0023 ppm	-0.0001 ppm	-0.0003 ppm
Concentration per Run 1	4.7305 ppm	0.0339 ppm	0.0010 ppm	9.1099 ppm	0.0026 ppm	-0.0006 ppm	0.0003 ppm
Concentration per Run 2	4.6949 ppm	0.0343 ppm	0.0013 ppm	9.0276 ppm	0.0022 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 3	4.6263 ppm	0.0340 ppm	0.0014 ppm	9.1972 ppm	0.0021 ppm	0.0001 ppm	-0.0018 ppm
Concentration RSD	1.1 %	0.6 %	16.4 %	0.9 %	11.0 %	344.4 %	482.5 %

	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	0.0014 ppm	8.0277 ppm	0.0008 ppm	0.0421 ppm	0.0009 ppm	0.0007 ppm	-0.0001 ppm
Concentration per Run 1	0.0017 ppm	8.1082 ppm	0.0011 ppm	0.0421 ppm	0.0008 ppm	0.0008 ppm	-0.0002 ppm
Concentration per Run 2	-0.0001 ppm	8.0227 ppm	0.0009 ppm	0.0421 ppm	0.0008 ppm	0.0009 ppm	-0.0001 ppm
Concentration per Run 3	0.0026 ppm	7.9522 ppm	0.0004 ppm	0.0420 ppm	0.0010 ppm	0.0004 ppm	-0.0001 ppm
Concentration RSD	97.1 %	1.0 %	42.8 %	0.1 %	10.6 %	38.4 %	26.7 %

	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	0.0055 ppm	95.2283 %	99.2746 %	90.0190 %	97.2049 %	99.7199 %	95.2238 %
Concentration per Run 1	0.0054 ppm	94.5784 %	98.7724 %	88.8319 %	97.5285 %	99.0278 %	94.6917 %
Concentration per Run 2	0.0057 ppm	94.9689 %	99.0484 %	90.4039 %	96.9844 %	99.8467 %	95.5484 %
Concentration per Run 3	0.0055 ppm	96.1375 %	100.0031 %	90.8212 %	97.1017 %	100.2852 %	95.4315 %
Concentration RSD	2.6 %	0.9 %	0.7 %	1.2 %	0.3 %	0.6 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473162-05 WG2010362
Analysis started at: 12/18/2024 11:42:30 PM
Rack 3
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	-0.0004 ppm	-0.0025 ppm	0.0005 ppm	0.0208 ppm	0.0211 ppm	0.0000 ppm	21.3267 ppm
Concentration per Run 1	-0.0004 ppm	-0.0014 ppm	0.0015 ppm	0.0213 ppm	0.0212 ppm	0.0000 ppm	21.5419 ppm
Concentration per Run 2	-0.0003 ppm	-0.0045 ppm	-0.0003 ppm	0.0208 ppm	0.0209 ppm	0.0000 ppm	21.3729 ppm
Concentration per Run 3	-0.0005 ppm	-0.0015 ppm	0.0005 ppm	0.0201 ppm	0.0211 ppm	0.0001 ppm	21.0653 ppm
Concentration RSD	27.9 %	70.4 %	162.7 %	2.8 %	0.8 %	365.1 %	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	-0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0002 ppm	0.0113 ppm	2.2926 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0003 ppm	0.0109 ppm	2.2710 ppm	0.0007 ppm
Concentration per Run 2	-0.0003 ppm	0.0005 ppm	0.0004 ppm	0.0004 ppm	0.0112 ppm	2.2471 ppm	0.0005 ppm
Concentration per Run 3	-0.0001 ppm	-0.0001 ppm	0.0006 ppm	0.0000 ppm	0.0119 ppm	2.3597 ppm	0.0004 ppm
Concentration RSD	89.4 %	205.3 %	21.4 %	78.5 %	4.7 %	2.6 %	35.3 %

	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	6.3566 ppm	0.0004 ppm	0.0013 ppm	13.9991 ppm	0.0003 ppm	-0.0004 ppm	-0.0004 ppm
Concentration per Run 1	6.4228 ppm	0.0003 ppm	0.0013 ppm	13.9114 ppm	0.0004 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run 2	6.3341 ppm	0.0004 ppm	0.0009 ppm	13.7434 ppm	0.0003 ppm	-0.0010 ppm	-0.0019 ppm
Concentration per Run 3	6.3127 ppm	0.0004 ppm	0.0017 ppm	14.3426 ppm	0.0001 ppm	0.0001 ppm	0.0008 ppm
Concentration RSD	0.9 %	15.0 %	28.8 %	2.2 %	53.3 %	158.4 %	345.4 %

	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	3.9351 ppm	0.0009 ppm	0.0904 ppm	0.0002 ppm	0.0007 ppm	0.0004 ppm
Concentration per Run 1	0.0013 ppm	3.9704 ppm	0.0008 ppm	0.0906 ppm	0.0003 ppm	0.0003 ppm	0.0005 ppm
Concentration per Run 2	0.0006 ppm	3.9232 ppm	0.0011 ppm	0.0899 ppm	0.0002 ppm	0.0003 ppm	0.0003 ppm
Concentration per Run 3	0.0003 ppm	3.9116 ppm	0.0007 ppm	0.0907 ppm	0.0000 ppm	0.0014 ppm	0.0003 ppm
Concentration RSD	72.6 %	0.8 %	22.3 %	0.5 %	84.6 %	96.0 %	26.2 %

	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	0.0015 ppm	93.4753 %	98.0496 %	87.7738 %	95.6865 %	99.1509 %	93.7949 %
Concentration per Run 1	0.0015 ppm	92.7314 %	97.2161 %	87.0055 %	96.2676 %	98.4725 %	93.7018 %
Concentration per Run 2	0.0014 ppm	93.6362 %	97.9905 %	88.6433 %	95.9697 %	99.0057 %	94.4914 %
Concentration per Run 3	0.0016 ppm	94.0585 %	98.9422 %	87.6725 %	94.8222 %	99.9744 %	93.1917 %
Concentration RSD	9.0 %	0.7 %	0.9 %	0.9 %	0.8 %	0.8 %	0.7 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473162-07 WG2010362
Analysis started at: 12/18/2024 11:47:00 PM
Rack 3
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	-0.0004 ppm	0.0706 ppm	0.0019 ppm	0.0939 ppm	0.0142 ppm	0.0000 ppm	17.7464 ppm
Concentration per Run 1	-0.0004 ppm	0.0717 ppm	0.0023 ppm	0.0966 ppm	0.0143 ppm	0.0000 ppm	17.7487 ppm
Concentration per Run 2	-0.0004 ppm	0.0688 ppm	0.0019 ppm	0.0926 ppm	0.0141 ppm	0.0000 ppm	17.8235 ppm
Concentration per Run 3	-0.0002 ppm	0.0714 ppm	0.0016 ppm	0.0926 ppm	0.0141 ppm	0.0000 ppm	17.6670 ppm
Concentration RSD	36.5 %	2.2 %	19.6 %	2.5 %	0.5 %	227.0 %	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	0.0002 ppm	0.0016 ppm	0.0002 ppm	0.0899 ppm	1.5236 ppm	0.0028 ppm
Concentration per Run 1	-0.0001 ppm	0.0005 ppm	0.0018 ppm	0.0002 ppm	0.0910 ppm	1.5232 ppm	0.0030 ppm
Concentration per Run 2	-0.0001 ppm	0.0004 ppm	0.0017 ppm	0.0004 ppm	0.0905 ppm	1.5299 ppm	0.0028 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0015 ppm	-0.0001 ppm	0.0881 ppm	1.5176 ppm	0.0025 ppm
Concentration RSD	64.1 %	181.1 %	9.2 %	148.0 %	1.7 %	0.4 %	8.2 %

	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	9.2423 ppm	0.0028 ppm	0.0007 ppm	14.8947 ppm	0.0018 ppm	0.0003 ppm	-0.0005 ppm
Concentration per Run 1	9.3704 ppm	0.0029 ppm	0.0005 ppm	15.0127 ppm	0.0018 ppm	0.0001 ppm	0.0018 ppm
Concentration per Run 2	9.1919 ppm	0.0027 ppm	0.0004 ppm	14.9155 ppm	0.0017 ppm	-0.0001 ppm	-0.0011 ppm
Concentration per Run 3	9.1647 ppm	0.0028 ppm	0.0012 ppm	14.7558 ppm	0.0019 ppm	0.0009 ppm	-0.0023 ppm
Concentration RSD	1.2 %	2.5 %	65.6 %	0.9 %	6.2 %	173.3 %	400.7 %

	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	0.0010 ppm	10.3544 ppm	0.0003 ppm	0.0938 ppm	0.0021 ppm	0.0009 ppm	0.0014 ppm
Concentration per Run 1	0.0009 ppm	10.5018 ppm	0.0012 ppm	0.0941 ppm	0.0019 ppm	0.0008 ppm	0.0014 ppm
Concentration per Run 2	0.0016 ppm	10.2764 ppm	0.0005 ppm	0.0938 ppm	0.0021 ppm	0.0008 ppm	0.0013 ppm
Concentration per Run 3	0.0005 ppm	10.2850 ppm	-0.0008 ppm	0.0936 ppm	0.0023 ppm	0.0012 ppm	0.0014 ppm
Concentration RSD	53.3 %	1.2 %	330.8 %	0.2 %	9.4 %	20.4 %	2.9 %

	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	0.0017 ppm	93.2436 %	98.2027 %	87.3105 %	95.4210 %	99.0940 %	94.1492 %
Concentration per Run 1	0.0018 ppm	92.1634 %	98.4944 %	86.1777 %	95.7367 %	99.6965 %	93.9552 %
Concentration per Run 2	0.0016 ppm	93.5035 %	97.3934 %	87.5209 %	95.6155 %	98.5698 %	94.0053 %
Concentration per Run 3	0.0017 ppm	94.0639 %	98.7203 %	88.2331 %	94.9107 %	99.0158 %	94.4870 %
Concentration RSD	6.8 %	1.0 %	0.7 %	1.2 %	0.5 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473162-08 WG2010362
Analysis started at: 12/18/2024 11:51:29 PM
Rack 3
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	-0.0003 ppm	-0.0041 ppm	0.0008 ppm	0.0225 ppm	0.0899 ppm	0.0000 ppm	99.4624 ppm
Concentration per Run 1	-0.0002 ppm	-0.0017 ppm	0.0011 ppm	0.0224 ppm	0.0903 ppm	0.0000 ppm	100.1623 ppm
Concentration per Run 2	-0.0004 ppm	-0.0059 ppm	0.0007 ppm	0.0225 ppm	0.0898 ppm	0.0000 ppm	99.7470 ppm
Concentration per Run 3	-0.0004 ppm	-0.0048 ppm	0.0007 ppm	0.0225 ppm	0.0894 ppm	0.0000 ppm	98.4778 ppm
Concentration RSD	38.7 %	53.5 %	28.5 %	0.4 %	0.5 %	88.7 %	0.9 %

	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	-0.0006 ppm	0.0000 ppm	0.0007 ppm	0.0008 ppm	0.0121 ppm	3.0911 ppm	-0.0001 ppm
Concentration per Run 1	-0.0006 ppm	0.0000 ppm	0.0009 ppm	0.0009 ppm	0.0117 ppm	3.1443 ppm	0.0000 ppm
Concentration per Run 2	-0.0006 ppm	-0.0003 ppm	0.0006 ppm	0.0008 ppm	0.0117 ppm	3.0462 ppm	-0.0008 ppm
Concentration per Run 3	-0.0005 ppm	0.0002 ppm	0.0007 ppm	0.0007 ppm	0.0129 ppm	3.0828 ppm	0.0004 ppm
Concentration RSD	7.6 %	863.8 %	21.3 %	12.5 %	5.6 %	1.6 %	485.7 %

	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	22.2182 ppm	0.0007 ppm	0.0008 ppm	5.3697 ppm	0.0008 ppm	0.0009 ppm	0.0002 ppm
Concentration per Run 1	22.5080 ppm	0.0007 ppm	0.0008 ppm	5.3595 ppm	0.0010 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 2	22.2304 ppm	0.0008 ppm	0.0006 ppm	5.3030 ppm	0.0010 ppm	0.0010 ppm	-0.0001 ppm
Concentration per Run 3	21.9162 ppm	0.0007 ppm	0.0011 ppm	5.4465 ppm	0.0005 ppm	0.0010 ppm	0.0005 ppm
Concentration RSD	1.3 %	7.8 %	36.0 %	1.3 %	36.9 %	21.4 %	124.1 %

	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	0.0005 ppm	5.5264 ppm	0.0002 ppm	0.2669 ppm	0.0000 ppm	0.0009 ppm	0.0001 ppm
Concentration per Run 1	0.0004 ppm	5.6083 ppm	0.0007 ppm	0.2652 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 2	0.0003 ppm	5.5194 ppm	0.0004 ppm	0.2690 ppm	0.0001 ppm	0.0011 ppm	0.0000 ppm
Concentration per Run 3	0.0008 ppm	5.4516 ppm	-0.0004 ppm	0.2665 ppm	-0.0001 ppm	0.0018 ppm	0.0003 ppm
Concentration RSD	57.6 %	1.4 %	243.7 %	0.7 %	551.3 %	91.9 %	240.1 %

	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	0.0020 ppm	90.7055 %	95.8629 %	81.3511 %	93.0170 %	97.0258 %	90.3892 %
Concentration per Run 1	0.0021 ppm	89.5905 %	94.9851 %	81.1815 %	93.0298 %	96.8279 %	90.6918 %
Concentration per Run 2	0.0019 ppm	90.7011 %	95.6967 %	81.0919 %	93.1721 %	96.7888 %	90.1635 %
Concentration per Run 3	0.0020 ppm	91.8248 %	96.9069 %	81.7800 %	92.8490 %	97.4606 %	90.3123 %
Concentration RSD	4.6 %	1.2 %	1.0 %	0.5 %	0.2 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473162-09 WG2010362
Analysis started at: 12/18/2024 11:55:58 PM
Rack 3
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	-0.0004 ppm	0.0183 ppm	0.0003 ppm	0.0177 ppm	0.0259 ppm	0.0000 ppm	10.8742 ppm
Concentration per Run 1	-0.0004 ppm	0.0236 ppm	0.0014 ppm	0.0184 ppm	0.0259 ppm	0.0000 ppm	10.9441 ppm
Concentration per Run 2	-0.0004 ppm	0.0150 ppm	0.0003 ppm	0.0179 ppm	0.0260 ppm	0.0000 ppm	10.9093 ppm
Concentration per Run 3	-0.0003 ppm	0.0162 ppm	-0.0007 ppm	0.0168 ppm	0.0258 ppm	0.0000 ppm	10.7693 ppm
Concentration RSD	7.5 %	25.4 %	303.5 %	4.8 %	0.3 %	501.6 %	0.9 %

	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	0.0000 ppm	0.0002 ppm	0.0018 ppm	0.0003 ppm	0.0279 ppm	1.1732 ppm	0.0021 ppm
Concentration per Run 1	-0.0001 ppm	0.0000 ppm	0.0016 ppm	0.0003 ppm	0.0290 ppm	1.1838 ppm	0.0020 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	0.0019 ppm	0.0003 ppm	0.0276 ppm	1.1708 ppm	0.0022 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0019 ppm	0.0003 ppm	0.0269 ppm	1.1651 ppm	0.0020 ppm
Concentration RSD	52.3 %	147.9 %	8.5 %	12.1 %	3.8 %	0.8 %	5.1 %

	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	5.2802 ppm	0.0008 ppm	0.0005 ppm	15.3083 ppm	0.0012 ppm	-0.0001 ppm	-0.0030 ppm
Concentration per Run 1	5.3605 ppm	0.0008 ppm	0.0002 ppm	15.3164 ppm	0.0007 ppm	0.0003 ppm	-0.0029 ppm
Concentration per Run 2	5.2575 ppm	0.0009 ppm	0.0005 ppm	15.3259 ppm	0.0019 ppm	0.0000 ppm	-0.0040 ppm
Concentration per Run 3	5.2226 ppm	0.0008 ppm	0.0007 ppm	15.2827 ppm	0.0011 ppm	-0.0007 ppm	-0.0022 ppm
Concentration RSD	1.4 %	7.5 %	49.9 %	0.1 %	47.2 %	409.9 %	29.1 %

	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	-0.0002 ppm	7.9738 ppm	0.0002 ppm	0.0576 ppm	0.0011 ppm	0.0006 ppm	0.0001 ppm
Concentration per Run 1	0.0002 ppm	8.0876 ppm	-0.0001 ppm	0.0577 ppm	0.0011 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 2	-0.0005 ppm	7.9388 ppm	0.0000 ppm	0.0576 ppm	0.0011 ppm	0.0010 ppm	0.0000 ppm
Concentration per Run 3	-0.0003 ppm	7.8950 ppm	0.0007 ppm	0.0574 ppm	0.0011 ppm	0.0004 ppm	0.0001 ppm
Concentration RSD	192.8 %	1.3 %	206.7 %	0.2 %	1.0 %	56.4 %	64.2 %

	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	0.0014 ppm	93.4152 %	98.1974 %	88.2840 %	95.9817 %	99.0588 %	94.7573 %
Concentration per Run 1	0.0015 ppm	92.3541 %	97.7027 %	87.4999 %	96.5600 %	98.9441 %	94.5611 %
Concentration per Run 2	0.0014 ppm	93.3046 %	98.0174 %	88.7217 %	95.7589 %	98.9016 %	95.2333 %
Concentration per Run 3	0.0012 ppm	94.5869 %	98.8719 %	88.6305 %	95.6262 %	99.3307 %	94.4775 %
Concentration RSD	14.0 %	1.2 %	0.6 %	0.8 %	0.5 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: L2473162-10 WG2010362
Analysis started at: 12/19/2024 12:00:28 AM
Rack 3
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	-0.0003 ppm	0.0044 ppm	0.0014 ppm	-0.0008 ppm	0.0003 ppm	0.0000 ppm	0.0120 ppm
Concentration per Run 1	-0.0006 ppm	0.0016 ppm	0.0009 ppm	-0.0004 ppm	0.0003 ppm	0.0000 ppm	0.0121 ppm
Concentration per Run 2	-0.0001 ppm	0.0068 ppm	0.0012 ppm	-0.0007 ppm	0.0003 ppm	0.0000 ppm	0.0129 ppm
Concentration per Run 3	-0.0002 ppm	0.0046 ppm	0.0021 ppm	-0.0013 ppm	0.0003 ppm	0.0000 ppm	0.0111 ppm
Concentration RSD	86.9 %	60.2 %	44.0 %	60.3 %	3.2 %	2,690.4 %	7.7 %

	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	0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0087 ppm	0.0091 ppm	0.0003 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0005 ppm	0.0093 ppm	0.0039 ppm	0.0000 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	-0.0001 ppm	0.0002 ppm	0.0092 ppm	0.0134 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0004 ppm	0.0005 ppm	0.0076 ppm	0.0101 ppm	0.0006 ppm
Concentration RSD	791.2 %	422.0 %	145.7 %	47.9 %	11.2 %	53.2 %	108.7 %

	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	0.0029 ppm	0.0004 ppm	0.0003 ppm	0.0069 ppm	0.0006 ppm	-0.0001 ppm	-0.0008 ppm
Concentration per Run 1	0.0020 ppm	0.0004 ppm	0.0006 ppm	0.0060 ppm	0.0003 ppm	-0.0005 ppm	-0.0015 ppm
Concentration per Run 2	0.0031 ppm	0.0004 ppm	0.0004 ppm	0.0070 ppm	0.0007 ppm	-0.0002 ppm	-0.0004 ppm
Concentration per Run 3	0.0037 ppm	0.0005 ppm	0.0000 ppm	0.0077 ppm	0.0009 ppm	0.0003 ppm	-0.0004 ppm
Concentration RSD	28.6 %	6.0 %	82.6 %	12.3 %	43.1 %	308.6 %	85.4 %

	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	-0.0006 ppm	0.0086 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 1	0.0015 ppm	0.0105 ppm	-0.0002 ppm	0.0002 ppm	0.0001 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 2	-0.0014 ppm	0.0068 ppm	0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 3	-0.0019 ppm	0.0085 ppm	0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0004 ppm	-0.0001 ppm
Concentration RSD	311.0 %	21.5 %	213.0 %	28.1 %	56.6 %	20.2 %	295.1 %

	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	0.0007 ppm	95.6526 %	99.0807 %	92.6512 %	99.5579 %	100.8108 %	96.8525 %
Concentration per Run 1	0.0008 ppm	94.7546 %	98.1413 %	91.9695 %	100.1302 %	100.4446 %	96.9375 %
Concentration per Run 2	0.0008 ppm	95.9163 %	99.6623 %	92.7317 %	99.5423 %	101.5016 %	97.5061 %
Concentration per Run 3	0.0006 ppm	96.2869 %	99.4384 %	93.2525 %	99.0014 %	100.4863 %	96.1139 %
Concentration RSD	21.5 %	0.8 %	0.8 %	0.7 %	0.6 %	0.6 %	0.7 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCV
Analysis started at: 12/19/2024 12:04:58 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	0.4690 ppm	0.4623 ppm	0.4624 ppm	0.4903 ppm	0.4932 ppm	0.4738 ppm
Concentration per Run 1	0.4698 ppm	0.4684 ppm	0.4609 ppm	0.4673 ppm	0.4906 ppm	0.4915 ppm	0.4747 ppm
Concentration per Run 2	0.4699 ppm	0.4682 ppm	0.4624 ppm	0.4627 ppm	0.4907 ppm	0.4941 ppm	0.4743 ppm
Concentration per Run 3	0.4667 ppm	0.4702 ppm	0.4637 ppm	0.4572 ppm	0.4897 ppm	0.4940 ppm	0.4725 ppm
Recovery Percentage 1	93.764 %	93.791 %	92.467 %	92.475 %	98.069 %	98.642 %	94.767 %
Concentration RSD	0.4 %	0.2 %	0.3 %	1.1 %	0.1 %	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	0.4641 ppm	0.4870 ppm	0.4710 ppm	0.4797 ppm	0.4892 ppm	5.1427 ppm	0.5069 ppm
Concentration per Run 1	0.4672 ppm	0.4908 ppm	0.4718 ppm	0.4830 ppm	0.4884 ppm	5.1674 ppm	0.5080 ppm
Concentration per Run 2	0.4629 ppm	0.4853 ppm	0.4719 ppm	0.4795 ppm	0.4891 ppm	5.1206 ppm	0.5052 ppm
Concentration per Run 3	0.4621 ppm	0.4850 ppm	0.4692 ppm	0.4766 ppm	0.4900 ppm	5.1401 ppm	0.5076 ppm
Recovery Percentage 1	92.816 %	97.406 %	94.197 %	95.943 %	97.830 %	102.854 %	101.384 %
Concentration RSD	0.6 %	0.7 %	0.3 %	0.7 %	0.2 %	0.5 %	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	0.4726 ppm	0.4693 ppm	0.4727 ppm	10.0993 ppm	0.4836 ppm	0.4779 ppm	0.4769 ppm
Concentration per Run 1	0.4734 ppm	0.4673 ppm	0.4716 ppm	10.1757 ppm	0.4847 ppm	0.4781 ppm	0.4778 ppm
Concentration per Run 2	0.4745 ppm	0.4708 ppm	0.4704 ppm	10.0724 ppm	0.4839 ppm	0.4807 ppm	0.4781 ppm
Concentration per Run 3	0.4699 ppm	0.4697 ppm	0.4762 ppm	10.0498 ppm	0.4821 ppm	0.4747 ppm	0.4748 ppm
Recovery Percentage 1	94.519 %	93.851 %	94.549 %	100.993 %	96.714 %	95.572 %	95.377 %
Concentration RSD	0.5 %	0.4 %	0.6 %	0.7 %	0.3 %	0.6 %	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	0.4785 ppm	5.3027 ppm	0.4840 ppm	0.5213 ppm	0.4764 ppm	0.4720 ppm	0.4809 ppm
Concentration per Run 1	0.4761 ppm	5.3171 ppm	0.4835 ppm	0.5197 ppm	0.4770 ppm	0.4702 ppm	0.4837 ppm
Concentration per Run 2	0.4799 ppm	5.3099 ppm	0.4826 ppm	0.5220 ppm	0.4774 ppm	0.4756 ppm	0.4806 ppm
Concentration per Run 3	0.4796 ppm	5.2811 ppm	0.4858 ppm	0.5221 ppm	0.4747 ppm	0.4702 ppm	0.4783 ppm
Recovery Percentage 1	95.702 %	101.004 %	96.793 %	104.260 %	95.271 %	94.397 %	96.179 %
Concentration RSD	0.4 %	0.4 %	0.3 %	0.3 %	0.3 %	0.7 %	0.6 %

	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	0.4633 ppm	101.2974 %	100.5720 %	92.2020 %	95.8943 %	98.1665 %	94.4313 %
Concentration per Run 1	0.4645 ppm	100.9862 %	100.9461 %	92.1971 %	96.1170 %	98.4305 %	94.5793 %
Concentration per Run 2	0.4635 ppm	101.1737 %	100.2067 %	91.9106 %	95.4231 %	97.7274 %	94.2049 %
Concentration per Run 3	0.4620 ppm	101.7322 %	100.5632 %	92.4984 %	96.1428 %	98.3417 %	94.5097 %
Recovery Percentage 1	92.662 %						
Concentration RSD	0.3 %	0.4 %	0.4 %	0.3 %	0.4 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCB
Analysis started at: 12/19/2024 12:09:25 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	-0.0002 ppm	-0.0049 ppm	0.0010 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 1	-0.0005 ppm	-0.0047 ppm	0.0011 ppm	-0.0004 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 2	-0.0002 ppm	-0.0036 ppm	0.0014 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 3	0.0000 ppm	-0.0064 ppm	0.0006 ppm	-0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm
Recovery Percentage 1	-4.538 %	-4.884 %	20.732 %	-1.721 %	-0.101 %	0.928 %	0.387 %
Concentration RSD	105.0 %	28.4 %	40.6 %	130.5 %	55.7 %	37.5 %	66.7 %

	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	0.0001 ppm	-0.0001 ppm	-0.0003 ppm	0.0014 ppm	0.0201 ppm	0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0001 ppm	-0.0002 ppm	0.0017 ppm	0.0058 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0019 ppm	0.0246 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0002 ppm	-0.0004 ppm	0.0006 ppm	0.0298 ppm	0.0004 ppm
Recovery Percentage 1	-0.644 %	1.278 %	-0.540 %	-2.500 %	2.793 %	0.803 %	2.515 %
Concentration RSD	16.6 %	129.7 %	285.9 %	44.9 %	49.2 %	62.9 %	67.0 %

	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	0.0003 ppm	0.0001 ppm	0.0035 ppm	0.0044 ppm	0.0002 ppm	0.0007 ppm	0.0008 ppm
Concentration per Run 1	0.0007 ppm	0.0001 ppm	0.0035 ppm	0.0038 ppm	0.0007 ppm	0.0006 ppm	0.0002 ppm
Concentration per Run 2	-0.0004 ppm	0.0001 ppm	0.0032 ppm	0.0042 ppm	0.0001 ppm	0.0007 ppm	0.0013 ppm
Concentration per Run 3	0.0007 ppm	0.0000 ppm	0.0038 ppm	0.0054 ppm	-0.0001 ppm	0.0007 ppm	0.0009 ppm
Recovery Percentage 1	0.333 %	0.504 %	7.023 %	0.222 %	0.960 %	6.961 %	1.613 %
Concentration RSD	189.1 %	118.4 %	8.4 %	18.6 %	162.0 %	7.8 %	69.3 %

	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	0.0005 ppm	-0.0007 ppm	0.0006 ppm	0.0001 ppm	0.0002 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 1	0.0007 ppm	-0.0007 ppm	0.0006 ppm	0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 2	0.0002 ppm	-0.0002 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0009 ppm	0.0001 ppm
Concentration per Run 3	0.0005 ppm	-0.0013 ppm	0.0008 ppm	0.0001 ppm	0.0002 ppm	0.0010 ppm	-0.0002 ppm
Recovery Percentage 1	4.907 %	-0.145 %	1.119 %	0.915 %	1.509 %	3.194 %	0.012 %
Concentration RSD	52.0 %	74.6 %	52.9 %	7.7 %	77.2 %	85.6 %	12,247.6 %

	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	0.0002 ppm	98.8938 %	96.9635 %	93.4349 %	98.0797 %	96.1528 %	95.9468 %
Concentration per Run 1	0.0003 ppm	97.6566 %	93.2627 %	92.6956 %	97.9447 %	91.3903 %	95.4418 %
Concentration per Run 2	0.0003 ppm	99.0349 %	98.4352 %	94.2124 %	97.9551 %	97.9685 %	96.4580 %
Concentration per Run 3	0.0001 ppm	99.9897 %	99.1927 %	93.3969 %	98.3392 %	99.0996 %	95.9406 %
Recovery Percentage 1	4.295 %						
Concentration RSD	47.6 %	1.2 %	3.3 %	0.8 %	0.2 %	4.3 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCV
Analysis started at: 12/19/2024 12:13:53 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	0.4689 ppm	0.4653 ppm	0.4613 ppm	0.4630 ppm	0.4902 ppm	0.4956 ppm	0.4791 ppm
Concentration per Run 1	0.4707 ppm	0.4658 ppm	0.4593 ppm	0.4640 ppm	0.4898 ppm	0.4934 ppm	0.4783 ppm
Concentration per Run 2	0.4682 ppm	0.4677 ppm	0.4624 ppm	0.4641 ppm	0.4909 ppm	0.4999 ppm	0.4844 ppm
Concentration per Run 3	0.4677 ppm	0.4625 ppm	0.4621 ppm	0.4609 ppm	0.4900 ppm	0.4936 ppm	0.4748 ppm
Recovery Percentage 1	93.777 %	93.067 %	92.255 %	92.597 %	98.050 %	99.127 %	95.828 %
Concentration RSD	0.3 %	0.6 %	0.4 %	0.4 %	0.1 %	0.7 %	1.0 %

	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	0.4668 ppm	0.4887 ppm	0.4722 ppm	0.4797 ppm	0.4905 ppm	5.1421 ppm	0.5034 ppm
Concentration per Run 1	0.4688 ppm	0.4885 ppm	0.4749 ppm	0.4811 ppm	0.4884 ppm	5.1241 ppm	0.5022 ppm
Concentration per Run 2	0.4674 ppm	0.4905 ppm	0.4726 ppm	0.4812 ppm	0.4936 ppm	5.1355 ppm	0.4987 ppm
Concentration per Run 3	0.4643 ppm	0.4870 ppm	0.4691 ppm	0.4770 ppm	0.4896 ppm	5.1665 ppm	0.5094 ppm
Recovery Percentage 1	93.363 %	97.732 %	94.438 %	95.949 %	98.103 %	102.841 %	100.686 %
Concentration RSD	0.5 %	0.4 %	0.6 %	0.5 %	0.6 %	0.4 %	1.1 %

	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	0.4765 ppm	0.4729 ppm	0.4720 ppm	10.0406 ppm	0.4864 ppm	0.4784 ppm	0.4777 ppm
Concentration per Run 1	0.4782 ppm	0.4703 ppm	0.4708 ppm	10.0566 ppm	0.4876 ppm	0.4774 ppm	0.4791 ppm
Concentration per Run 2	0.4760 ppm	0.4775 ppm	0.4728 ppm	9.9701 ppm	0.4874 ppm	0.4800 ppm	0.4759 ppm
Concentration per Run 3	0.4752 ppm	0.4710 ppm	0.4724 ppm	10.0950 ppm	0.4842 ppm	0.4777 ppm	0.4780 ppm
Recovery Percentage 1	95.292 %	94.585 %	94.401 %	100.406 %	97.278 %	95.673 %	95.538 %
Concentration RSD	0.3 %	0.8 %	0.2 %	0.6 %	0.4 %	0.3 %	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	0.4745 ppm	5.2867 ppm	0.4849 ppm	0.5199 ppm	0.4757 ppm	0.4706 ppm	0.4822 ppm
Concentration per Run 1	0.4718 ppm	5.2908 ppm	0.4841 ppm	0.5192 ppm	0.4775 ppm	0.4693 ppm	0.4853 ppm
Concentration per Run 2	0.4768 ppm	5.2916 ppm	0.4877 ppm	0.5223 ppm	0.4762 ppm	0.4724 ppm	0.4836 ppm
Concentration per Run 3	0.4748 ppm	5.2776 ppm	0.4830 ppm	0.5182 ppm	0.4736 ppm	0.4699 ppm	0.4776 ppm
Recovery Percentage 1	94.895 %	100.698 %	96.984 %	103.985 %	95.147 %	94.110 %	96.436 %
Concentration RSD	0.5 %	0.1 %	0.5 %	0.4 %	0.4 %	0.4 %	0.8 %

	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	0.4668 ppm	101.0326 %	99.6578 %	92.2385 %	95.8927 %	97.5648 %	94.5871 %
Concentration per Run 1	0.4687 ppm	101.1127 %	99.9042 %	92.2091 %	96.9258 %	97.5344 %	94.7146 %
Concentration per Run 2	0.4674 ppm	100.5604 %	98.8825 %	92.4828 %	95.3689 %	97.1606 %	94.6399 %
Concentration per Run 3	0.4642 ppm	101.4248 %	100.1866 %	92.0236 %	95.3835 %	97.9994 %	94.4066 %
Recovery Percentage 1	93.353 %						
Concentration RSD	0.5 %	0.4 %	0.7 %	0.3 %	0.9 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: CCB
Analysis started at: 12/19/2024 12:18:21 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	-0.0002 ppm	-0.0035 ppm	0.0020 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0013 ppm
Concentration per Run 1	-0.0002 ppm	-0.0012 ppm	0.0025 ppm	0.0002 ppm	0.0000 ppm	0.0001 ppm	0.0020 ppm
Concentration per Run 2	0.0000 ppm	-0.0030 ppm	0.0026 ppm	0.0004 ppm	0.0000 ppm	0.0001 ppm	0.0020 ppm
Concentration per Run 3	-0.0003 ppm	-0.0062 ppm	0.0009 ppm	-0.0007 ppm	-0.0001 ppm	0.0001 ppm	-0.0002 ppm
Recovery Percentage 1	-3.301 %	-3.477 %	39.439 %	-0.074 %	-0.345 %	1.188 %	1.282 %
Concentration RSD	100.2 %	73.3 %	48.7 %	2,764.2 %	65.1 %	14.8 %	101.5 %

	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	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0016 ppm	0.0127 ppm	0.0004 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	-0.0001 ppm	0.0001 ppm	0.0011 ppm	0.0150 ppm	0.0000 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	0.0000 ppm	-0.0003 ppm	0.0021 ppm	0.0088 ppm	0.0004 ppm
Concentration per Run 3	-0.0001 ppm	-0.0001 ppm	-0.0001 ppm	-0.0003 ppm	0.0016 ppm	0.0143 ppm	0.0008 ppm
Recovery Percentage 1	0.773 %	0.841 %	-0.761 %	-1.897 %	3.219 %	0.509 %	3.760 %
Concentration RSD	255.6 %	433.8 %	74.4 %	111.1 %	30.8 %	26.7 %	107.9 %

	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	-0.0016 ppm	0.0001 ppm	0.0034 ppm	0.0023 ppm	0.0007 ppm	0.0002 ppm	-0.0002 ppm
Concentration per Run 1	-0.0009 ppm	0.0001 ppm	0.0035 ppm	0.0034 ppm	0.0007 ppm	0.0009 ppm	0.0007 ppm
Concentration per Run 2	-0.0017 ppm	0.0001 ppm	0.0035 ppm	0.0011 ppm	0.0008 ppm	0.0001 ppm	-0.0011 ppm
Concentration per Run 3	-0.0024 ppm	0.0001 ppm	0.0032 ppm	0.0024 ppm	0.0006 ppm	-0.0004 ppm	-0.0003 ppm
Recovery Percentage 1	-1.648 %	1.016 %	6.831 %	0.116 %	2.774 %	2.182 %	-0.443 %
Concentration RSD	43.5 %	43.0 %	4.9 %	50.1 %	13.4 %	297.7 %	401.6 %

	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	0.0019 ppm	-0.0003 ppm	0.0010 ppm	0.0001 ppm	0.0003 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 1	0.0016 ppm	0.0001 ppm	0.0010 ppm	0.0000 ppm	0.0005 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 2	0.0015 ppm	-0.0001 ppm	0.0012 ppm	0.0001 ppm	0.0002 ppm	0.0007 ppm	0.0000 ppm
Concentration per Run 3	0.0025 ppm	-0.0008 ppm	0.0010 ppm	0.0001 ppm	0.0001 ppm	0.0005 ppm	-0.0001 ppm
Recovery Percentage 1	18.561 %	-0.057 %	2.086 %	0.675 %	2.863 %	1.486 %	0.207 %
Concentration RSD	30.8 %	172.0 %	12.1 %	69.2 %	73.7 %	166.8 %	541.9 %

	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	0.0002 ppm	98.2245 %	99.2528 %	93.8583 %	97.5364 %	98.8148 %	96.2774 %
Concentration per Run 1	0.0002 ppm	97.5630 %	98.2354 %	93.6012 %	97.5786 %	98.0105 %	96.3273 %
Concentration per Run 2	0.0003 ppm	98.2041 %	99.8604 %	93.9460 %	97.8795 %	99.5230 %	96.2651 %
Concentration per Run 3	0.0002 ppm	98.9064 %	99.6627 %	94.0277 %	97.1510 %	98.9109 %	96.2397 %
Recovery Percentage 1	4.765 %						
Concentration RSD	34.2 %	0.7 %	0.9 %	0.2 %	0.4 %	0.8 %	0.0 %

iCAP Pro Trace 8 Data report

12/19/2024 6:59:04 AM

LabBook: WG2010540_12182024T8.imexp

Sample: LLOQ
Analysis started at: 12/19/2024 12:22:49 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	0.0051 ppm	0.0993 ppm	0.0071 ppm	0.0298 ppm	0.0107 ppm	0.0053 ppm	0.1102 ppm
Concentration per Run 1	0.0052 ppm	0.1014 ppm	0.0075 ppm	0.0292 ppm	0.0107 ppm	0.0053 ppm	0.1116 ppm
Concentration per Run 2	0.0051 ppm	0.1002 ppm	0.0073 ppm	0.0304 ppm	0.0107 ppm	0.0053 ppm	0.1088 ppm
Concentration per Run 3	0.0052 ppm	0.0962 ppm	0.0065 ppm	0.0298 ppm	0.0107 ppm	0.0053 ppm	0.1103 ppm
Recovery Percentage 1	102.926 %	99.282 %	141.858 %	99.330 %	106.898 %	106.690 %	110.235 %
Concentration RSD	0.8 %	2.7 %	8.0 %	2.1 %	0.1 %	0.1 %	1.3 %

	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	0.0041 ppm	0.0109 ppm	0.0103 ppm	0.0106 ppm	0.0766 ppm	2.8000 ppm	0.0119 ppm
Concentration per Run 1	0.0041 ppm	0.0110 ppm	0.0102 ppm	0.0105 ppm	0.0769 ppm	2.7788 ppm	0.0125 ppm
Concentration per Run 2	0.0041 ppm	0.0110 ppm	0.0102 ppm	0.0106 ppm	0.0768 ppm	2.8083 ppm	0.0114 ppm
Concentration per Run 3	0.0041 ppm	0.0109 ppm	0.0104 ppm	0.0106 ppm	0.0761 ppm	2.8127 ppm	0.0119 ppm
Recovery Percentage 1	102.408 %	109.449 %	102.951 %	105.997 %	153.180 %	111.998 %	119.203 %
Concentration RSD	0.2 %	0.4 %	1.3 %	0.6 %	0.6 %	0.7 %	4.5 %

	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	0.1068 ppm	0.0105 ppm	0.0543 ppm	2.2328 ppm	0.0215 ppm	0.0101 ppm	0.0516 ppm
Concentration per Run 1	0.1077 ppm	0.0105 ppm	0.0537 ppm	2.2194 ppm	0.0216 ppm	0.0098 ppm	0.0519 ppm
Concentration per Run 2	0.1087 ppm	0.0105 ppm	0.0546 ppm	2.2379 ppm	0.0219 ppm	0.0094 ppm	0.0509 ppm
Concentration per Run 3	0.1041 ppm	0.0106 ppm	0.0546 ppm	2.2411 ppm	0.0211 ppm	0.0113 ppm	0.0520 ppm
Recovery Percentage 1	106.848 %	105.049 %	108.629 %	111.642 %	86.173 %	101.459 %	103.230 %
Concentration RSD	2.3 %	0.5 %	0.9 %	0.5 %	1.7 %	9.7 %	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	0.0115 ppm	0.5260 ppm	0.0546 ppm	0.0108 ppm	0.0105 ppm	0.0201 ppm	0.0104 ppm
Concentration per Run 1	0.0102 ppm	0.5305 ppm	0.0554 ppm	0.0108 ppm	0.0108 ppm	0.0199 ppm	0.0105 ppm
Concentration per Run 2	0.0123 ppm	0.5240 ppm	0.0550 ppm	0.0108 ppm	0.0105 ppm	0.0203 ppm	0.0105 ppm
Concentration per Run 3	0.0120 ppm	0.5236 ppm	0.0534 ppm	0.0108 ppm	0.0103 ppm	0.0201 ppm	0.0103 ppm
Recovery Percentage 1	114.866 %	105.202 %	109.202 %	107.996 %	105.435 %	100.436 %	104.212 %
Concentration RSD	10.1 %	0.7 %	1.9 %	0.4 %	2.3 %	1.0 %	1.0 %

	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	0.0063 ppm	101.5353 %	100.0649 %	95.3825 %	97.6442 %	98.0723 %	96.1160 %
Concentration per Run 1	0.0063 ppm	101.0827 %	100.0131 %	95.1814 %	97.7008 %	98.2330 %	96.0022 %
Concentration per Run 2	0.0063 ppm	101.2091 %	100.4140 %	94.8004 %	97.0976 %	98.0813 %	95.8925 %
Concentration per Run 3	0.0063 ppm	102.3139 %	99.7675 %	96.1656 %	98.1342 %	97.9027 %	96.4533 %
Recovery Percentage 1	126.151 %						
Concentration RSD	0.2 %	0.7 %	0.3 %	0.7 %	0.5 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: Blank DMC Trace8
Analysis started at: 12/19/2024 5:49:04 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	-1.2 %	-0.2 %	-0.2 %	0.8 %	0.7 %	-0.3 %	-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	0.0000 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	-2.3 %	0.3 %	-0.4 %	0.0 %	-0.2 %	0.1 %	0.7 %

	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	0.0000 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 %	-1.2 %	0.6 %	0.1 %	-2.1 %	0.2 %	-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	0.0000 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 %	0.1 %	0.9 %	-1.8 %	-0.3 %	-0.1 %	-2.1 %

	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	0.0000 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	-1.9 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: ICAL
Analysis started at: 12/19/2024 5:53:43 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	1.0013 ppm	25.2645 ppm	1.0080 ppm	1.0050 ppm	0.9983 ppm	0.9988 ppm	10.0235 ppm
Concentration per Run 2	1.0029 ppm	24.8469 ppm	0.9957 ppm	1.0027 ppm	0.9965 ppm	0.9983 ppm	9.9998 ppm
Concentration per Run 3	0.9958 ppm	24.8886 ppm	0.9963 ppm	0.9924 ppm	1.0052 ppm	1.0028 ppm	9.9767 ppm
Concentration RSD	0.4 %	0.9 %	0.7 %	0.7 %	0.5 %	0.2 %	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	1.0083 ppm	1.0050 ppm	1.0049 ppm	1.0012 ppm	24.9467 ppm	34.8138 ppm	1.0077 ppm
Concentration per Run 2	0.9967 ppm	0.9986 ppm	1.0005 ppm	1.0052 ppm	24.9813 ppm	35.0592 ppm	0.9930 ppm
Concentration per Run 3	0.9950 ppm	0.9964 ppm	0.9946 ppm	0.9936 ppm	25.0721 ppm	35.1270 ppm	0.9993 ppm
Concentration RSD	0.7 %	0.4 %	0.5 %	0.6 %	0.3 %	0.5 %	0.7 %

	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	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	10.0619 ppm	0.9975 ppm	0.9911 ppm	25.4896 ppm	1.0033 ppm	1.0013 ppm	1.0018 ppm
Concentration per Run 2	9.9795 ppm	0.9998 ppm	1.0017 ppm	24.7813 ppm	1.0027 ppm	0.9963 ppm	1.0049 ppm
Concentration per Run 3	9.9587 ppm	1.0027 ppm	1.0072 ppm	24.7291 ppm	0.9940 ppm	1.0024 ppm	0.9932 ppm
Concentration RSD	0.5 %	0.3 %	0.8 %	1.7 %	0.5 %	0.3 %	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	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	0.9978 ppm	9.9677 ppm	1.0014 ppm	1.0022 ppm	1.0033 ppm	0.9946 ppm	1.0069 ppm
Concentration per Run 2	0.9976 ppm	10.0680 ppm	1.0020 ppm	0.9930 ppm	1.0002 ppm	0.9954 ppm	0.9964 ppm
Concentration per Run 3	1.0047 ppm	9.9643 ppm	0.9966 ppm	1.0047 ppm	0.9966 ppm	1.0099 ppm	0.9967 ppm
Concentration RSD	0.4 %	0.6 %	0.3 %	0.6 %	0.3 %	0.9 %	0.6 %

	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	1.0000 ppm	97.8505 %	100.3546 %	86.0989 %	91.3872 %	97.3851 %	93.3338 %
Concentration per Run 1	1.0048 ppm	97.5074 %	100.6659 %	86.1373 %	91.6511 %	97.6177 %	93.3213 %
Concentration per Run 2	0.9995 ppm	97.9828 %	99.9862 %	86.5743 %	91.1026 %	97.1079 %	93.6261 %
Concentration per Run 3	0.9957 ppm	98.0612 %	100.4118 %	85.5852 %	91.4078 %	97.4297 %	93.0541 %
Concentration RSD	0.5 %	0.3 %	0.3 %	0.6 %	0.3 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: ICV
Analysis started at: 12/19/2024 5:58:07 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	0.4765 ppm	0.4429 ppm	0.4703 ppm	0.4824 ppm	0.4505 ppm	0.4702 ppm	0.4591 ppm
Concentration per Run 1	0.4802 ppm	0.4651 ppm	0.4667 ppm	0.4877 ppm	0.4768 ppm	0.4948 ppm	0.4841 ppm
Concentration per Run 2	0.4772 ppm	0.3993 ppm	0.4764 ppm	0.4793 ppm	0.4043 ppm	0.4223 ppm	0.4112 ppm
Concentration per Run 3	0.4720 ppm	0.4642 ppm	0.4677 ppm	0.4803 ppm	0.4703 ppm	0.4935 ppm	0.4819 ppm
Recovery Percentage 1	95.295 %	88.577 %	94.056 %	96.489 %	90.093 %	94.040 %	91.814 %
Concentration RSD	0.9 %	8.5 %	1.1 %	1.0 %	8.9 %	8.8 %	9.0 %

	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	0.4861 ppm	0.4986 ppm	0.4801 ppm	0.4800 ppm	0.4746 ppm	4.7043 ppm	0.4480 ppm
Concentration per Run 1	0.4891 ppm	0.5026 ppm	0.4836 ppm	0.4835 ppm	0.5003 ppm	4.9536 ppm	0.4742 ppm
Concentration per Run 2	0.4857 ppm	0.4990 ppm	0.4806 ppm	0.4804 ppm	0.4248 ppm	4.2470 ppm	0.4075 ppm
Concentration per Run 3	0.4836 ppm	0.4943 ppm	0.4762 ppm	0.4761 ppm	0.4989 ppm	4.9123 ppm	0.4623 ppm
Recovery Percentage 1	97.224 %	99.721 %	96.029 %	95.996 %	94.930 %	94.086 %	89.598 %
Concentration RSD	0.6 %	0.8 %	0.8 %	0.8 %	9.1 %	8.4 %	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	0.4877 ppm	0.4569 ppm	0.4980 ppm	9.1316 ppm	0.4963 ppm	0.4747 ppm	0.4935 ppm
Concentration per Run 1	0.4895 ppm	0.4802 ppm	0.4990 ppm	9.6091 ppm	0.4978 ppm	0.4742 ppm	0.5008 ppm
Concentration per Run 2	0.4899 ppm	0.4108 ppm	0.4953 ppm	8.2654 ppm	0.4966 ppm	0.4749 ppm	0.4929 ppm
Concentration per Run 3	0.4837 ppm	0.4798 ppm	0.4996 ppm	9.5204 ppm	0.4944 ppm	0.4749 ppm	0.4868 ppm
Recovery Percentage 1	97.548 %	91.384 %	99.596 %	91.316 %	99.257 %	94.932 %	98.701 %
Concentration RSD	0.7 %	8.7 %	0.5 %	8.2 %	0.3 %	0.1 %	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	0.4758 ppm	5.3691 ppm	0.5053 ppm	0.4788 ppm	0.4855 ppm	0.4780 ppm	0.4816 ppm
Concentration per Run 1	0.4757 ppm	5.3998 ppm	0.5098 ppm	0.5076 ppm	0.4880 ppm	0.4778 ppm	0.4841 ppm
Concentration per Run 2	0.4796 ppm	5.3788 ppm	0.5021 ppm	0.4280 ppm	0.4866 ppm	0.4814 ppm	0.4830 ppm
Concentration per Run 3	0.4720 ppm	5.3287 ppm	0.5040 ppm	0.5010 ppm	0.4820 ppm	0.4747 ppm	0.4777 ppm
Recovery Percentage 1	95.156 %	102.268 %	101.064 %	95.769 %	97.105 %	95.592 %	96.318 %
Concentration RSD	0.8 %	0.7 %	0.8 %	9.2 %	0.6 %	0.7 %	0.7 %

	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	0.4885 ppm	99.6333 %	106.8758 %	92.7727 %	95.3877 %	102.0403 %	96.4744 %
Concentration per Run 1	0.4930 ppm	99.1100 %	101.6337 %	92.3817 %	95.4640 %	99.5630 %	96.4229 %
Concentration per Run 2	0.4861 ppm	99.8029 %	117.5071 %	93.0651 %	95.6270 %	107.6057 %	96.6684 %
Concentration per Run 3	0.4864 ppm	99.9869 %	101.4866 %	92.8711 %	95.0720 %	98.9522 %	96.3319 %
Recovery Percentage 1	97.696 %						
Concentration RSD	0.8 %	0.5 %	8.6 %	0.4 %	0.3 %	4.7 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: ICB
Analysis started at: 12/19/2024 6:02:31 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	0.0007 ppm	0.0009 ppm	0.0013 ppm	0.0000 ppm	0.0001 ppm	0.0015 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	0.0006 ppm	0.0018 ppm	0.0001 ppm	0.0001 ppm	0.0024 ppm
Concentration per Run 2	0.0001 ppm	0.0014 ppm	0.0014 ppm	0.0013 ppm	0.0000 ppm	0.0001 ppm	-0.0005 ppm
Concentration per Run 3	0.0002 ppm	0.0009 ppm	0.0008 ppm	0.0008 ppm	0.0000 ppm	0.0001 ppm	0.0025 ppm
Recovery Percentage 1	2.575 %	0.691 %	18.479 %	4.337 %	0.362 %	1.534 %	1.465 %
Concentration RSD	81.1 %	125.1 %	47.5 %	40.4 %	69.3 %	32.6 %	114.2 %

	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	0.0000 ppm	0.0001 ppm	0.0010 ppm	0.0008 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0005 ppm	-0.0013 ppm	0.0007 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	0.0001 ppm	-0.0001 ppm	0.0009 ppm	0.0073 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	-0.0001 ppm	0.0001 ppm	0.0015 ppm	-0.0037 ppm	0.0003 ppm
Recovery Percentage 1	0.326 %	-0.030 %	-0.458 %	0.536 %	1.943 %	0.031 %	3.699 %
Concentration RSD	280.3 %	9,586.6 %	300.1 %	213.3 %	55.6 %	758.1 %	89.2 %

	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	-0.0010 ppm	0.0000 ppm	0.0035 ppm	-0.0021 ppm	0.0007 ppm	-0.0005 ppm	0.0012 ppm
Concentration per Run 1	-0.0008 ppm	0.0001 ppm	0.0035 ppm	-0.0016 ppm	0.0004 ppm	-0.0001 ppm	0.0031 ppm
Concentration per Run 2	-0.0015 ppm	0.0000 ppm	0.0035 ppm	-0.0020 ppm	0.0011 ppm	-0.0015 ppm	0.0009 ppm
Concentration per Run 3	-0.0006 ppm	-0.0001 ppm	0.0034 ppm	-0.0025 ppm	0.0005 ppm	0.0001 ppm	-0.0005 ppm
Recovery Percentage 1	-0.952 %	0.138 %	6.927 %	-0.103 %	2.716 %	-4.655 %	2.320 %
Concentration RSD	54.0 %	611.0 %	1.9 %	22.7 %	49.5 %	188.2 %	158.7 %

	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	-0.0001 ppm	-0.0038 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0007 ppm	0.0001 ppm
Concentration per Run 1	-0.0001 ppm	-0.0036 ppm	-0.0002 ppm	0.0000 ppm	0.0001 ppm	0.0015 ppm	0.0001 ppm
Concentration per Run 2	0.0002 ppm	-0.0031 ppm	-0.0007 ppm	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 3	-0.0004 ppm	-0.0046 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0001 ppm
Recovery Percentage 1	-1.269 %	-0.756 %	-0.675 %	0.588 %	0.181 %	3.321 %	0.861 %
Concentration RSD	231.6 %	19.5 %	93.3 %	30.2 %	667.3 %	107.3 %	40.1 %

	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	95.8689 %	100.4980 %	93.5438 %	97.5293 %	100.9850 %	98.4903 %
Concentration per Run 1	0.0002 ppm	94.8201 %	100.0196 %	92.9717 %	97.8226 %	100.9360 %	98.4828 %
Concentration per Run 2	0.0001 ppm	96.2785 %	100.0212 %	93.8544 %	97.9343 %	100.8960 %	98.9222 %
Concentration per Run 3	0.0000 ppm	96.5081 %	101.4531 %	93.8053 %	96.8311 %	101.1228 %	98.0659 %
Recovery Percentage 1	1.830 %						
Concentration RSD	136.2 %	1.0 %	0.8 %	0.5 %	0.6 %	0.1 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: ICV
Analysis started at: 12/19/2024 6:10:43 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	0.4888 ppm	0.4753 ppm	0.4821 ppm	0.4924 ppm	0.4815 ppm	0.5064 ppm	0.4994 ppm
Concentration per Run 1	0.4912 ppm	0.4765 ppm	0.4807 ppm	0.4967 ppm	0.4794 ppm	0.5056 ppm	0.4970 ppm
Concentration per Run 2	0.4885 ppm	0.4713 ppm	0.4832 ppm	0.4941 ppm	0.4795 ppm	0.5070 ppm	0.5014 ppm
Concentration per Run 3	0.4867 ppm	0.4781 ppm	0.4825 ppm	0.4864 ppm	0.4855 ppm	0.5067 ppm	0.4998 ppm
Recovery Percentage 1	97.761 %	95.061 %	96.424 %	98.478 %	96.295 %	101.289 %	99.878 %
Concentration RSD	0.5 %	0.7 %	0.3 %	1.1 %	0.7 %	0.1 %	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	0.4949 ppm	0.5088 ppm	0.4897 ppm	0.4874 ppm	0.5078 ppm	5.0982 ppm	0.4880 ppm
Concentration per Run 1	0.4946 ppm	0.5105 ppm	0.4906 ppm	0.4886 ppm	0.5059 ppm	5.0773 ppm	0.4854 ppm
Concentration per Run 2	0.4976 ppm	0.5102 ppm	0.4912 ppm	0.4875 ppm	0.5082 ppm	5.0668 ppm	0.4843 ppm
Concentration per Run 3	0.4924 ppm	0.5057 ppm	0.4871 ppm	0.4859 ppm	0.5094 ppm	5.1506 ppm	0.4944 ppm
Recovery Percentage 1	98.974 %	101.758 %	97.933 %	97.470 %	101.563 %	101.965 %	97.609 %
Concentration RSD	0.5 %	0.5 %	0.5 %	0.3 %	0.3 %	0.9 %	1.1 %

	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	0.4983 ppm	0.4933 ppm	0.4992 ppm	10.0283 ppm	0.5060 ppm	0.4814 ppm	0.4985 ppm
Concentration per Run 1	0.5020 ppm	0.4920 ppm	0.4943 ppm	10.0385 ppm	0.5065 ppm	0.4830 ppm	0.4995 ppm
Concentration per Run 2	0.4987 ppm	0.4941 ppm	0.5030 ppm	9.9685 ppm	0.5082 ppm	0.4805 ppm	0.4989 ppm
Concentration per Run 3	0.4941 ppm	0.4938 ppm	0.5003 ppm	10.0781 ppm	0.5034 ppm	0.4806 ppm	0.4972 ppm
Recovery Percentage 1	99.655 %	98.656 %	99.838 %	100.283 %	101.207 %	96.276 %	99.707 %
Concentration RSD	0.8 %	0.2 %	0.9 %	0.6 %	0.5 %	0.3 %	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	0.4851 ppm	5.4868 ppm	0.5216 ppm	0.5106 ppm	0.4946 ppm	0.4874 ppm	0.4909 ppm
Concentration per Run 1	0.4839 ppm	5.4932 ppm	0.5237 ppm	0.5090 ppm	0.4977 ppm	0.4881 ppm	0.4926 ppm
Concentration per Run 2	0.4842 ppm	5.4966 ppm	0.5246 ppm	0.5087 ppm	0.4946 ppm	0.4865 ppm	0.4915 ppm
Concentration per Run 3	0.4871 ppm	5.4706 ppm	0.5164 ppm	0.5141 ppm	0.4916 ppm	0.4875 ppm	0.4885 ppm
Recovery Percentage 1	97.011 %	104.510 %	104.310 %	102.124 %	98.924 %	97.470 %	98.175 %
Concentration RSD	0.4 %	0.3 %	0.9 %	0.6 %	0.6 %	0.2 %	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	0.4987 ppm	100.3132 %	101.4443 %	93.5840 %	95.4147 %	99.3729 %	96.6597 %
Concentration per Run 1	0.4984 ppm	100.0502 %	101.7304 %	93.4996 %	95.9250 %	99.2103 %	96.7027 %
Concentration per Run 2	0.5032 ppm	100.2624 %	101.0549 %	93.9046 %	94.9908 %	99.4045 %	96.8499 %
Concentration per Run 3	0.4944 ppm	100.6269 %	101.5477 %	93.3477 %	95.3282 %	99.5038 %	96.4264 %
Recovery Percentage 1	99.736 %						
Concentration RSD	0.9 %	0.3 %	0.3 %	0.3 %	0.5 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: ICB
Analysis started at: 12/19/2024 6:15:17 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	0.0002 ppm	0.0007 ppm	0.0012 ppm	0.0011 ppm	0.0001 ppm	0.0001 ppm	0.0014 ppm
Concentration per Run 1	0.0004 ppm	0.0007 ppm	0.0013 ppm	0.0015 ppm	0.0001 ppm	0.0001 ppm	0.0005 ppm
Concentration per Run 2	0.0001 ppm	-0.0005 ppm	0.0009 ppm	0.0012 ppm	0.0000 ppm	0.0001 ppm	0.0013 ppm
Concentration per Run 3	0.0002 ppm	0.0019 ppm	0.0014 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0025 ppm
Recovery Percentage 1	4.292 %	0.695 %	24.138 %	3.686 %	0.543 %	1.174 %	1.424 %
Concentration RSD	69.1 %	176.4 %	23.1 %	43.9 %	55.8 %	24.5 %	71.3 %

	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	-0.0001 ppm	0.0000 ppm	0.0012 ppm	0.0038 ppm	-0.0003 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	-0.0002 ppm	0.0002 ppm	0.0014 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0000 ppm	-0.0003 ppm	0.0014 ppm	0.0050 ppm	-0.0005 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm	0.0062 ppm	-0.0007 ppm
Recovery Percentage 1	-0.658 %	2.486 %	-0.948 %	-0.048 %	2.317 %	0.151 %	-3.022 %
Concentration RSD	303.5 %	14.8 %	127.4 %	4,991.7 %	40.0 %	86.6 %	170.1 %

	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	-0.0015 ppm	0.0001 ppm	0.0027 ppm	-0.0028 ppm	-0.0001 ppm	-0.0003 ppm	0.0022 ppm
Concentration per Run 1	-0.0014 ppm	0.0001 ppm	0.0028 ppm	-0.0029 ppm	0.0000 ppm	-0.0008 ppm	0.0007 ppm
Concentration per Run 2	-0.0016 ppm	0.0000 ppm	0.0025 ppm	-0.0029 ppm	0.0001 ppm	0.0002 ppm	0.0032 ppm
Concentration per Run 3	-0.0015 ppm	0.0001 ppm	0.0027 ppm	-0.0027 ppm	-0.0003 ppm	-0.0003 ppm	0.0028 ppm
Recovery Percentage 1	-1.519 %	0.716 %	5.392 %	-0.141 %	-0.257 %	-3.107 %	4.429 %
Concentration RSD	7.1 %	111.1 %	5.2 %	4.5 %	304.9 %	159.4 %	59.4 %

	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	-0.0008 ppm	-0.0035 ppm	0.0005 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	0.0003 ppm	-0.0037 ppm	0.0008 ppm	0.0001 ppm	-0.0002 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 2	-0.0020 ppm	-0.0043 ppm	0.0005 ppm	0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 3	-0.0008 ppm	-0.0025 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm	0.0000 ppm
Recovery Percentage 1	-8.210 %	-0.695 %	1.079 %	0.539 %	-1.249 %	-0.242 %	0.396 %
Concentration RSD	139.1 %	26.0 %	44.8 %	53.3 %	83.9 %	926.6 %	185.1 %

	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	0.0002 ppm	95.5345 %	99.4632 %	93.5899 %	97.6178 %	100.4371 %	98.3152 %
Concentration per Run 1	0.0002 ppm	94.1559 %	98.9336 %	92.8948 %	97.6905 %	100.4580 %	98.1757 %
Concentration per Run 2	0.0003 ppm	95.6275 %	99.5908 %	93.6196 %	97.5232 %	100.5430 %	98.4230 %
Concentration per Run 3	0.0002 ppm	96.8200 %	99.8652 %	94.2554 %	97.6397 %	100.3103 %	98.3468 %
Recovery Percentage 1	4.014 %						
Concentration RSD	22.5 %	1.4 %	0.5 %	0.7 %	0.1 %	0.1 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: LLOQ
Analysis started at: 12/19/2024 6:19:42 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	0.0055 ppm	0.1062 ppm	0.0070 ppm	0.0329 ppm	0.0105 ppm	0.0054 ppm	0.1152 ppm
Concentration per Run 1	0.0056 ppm	0.1071 ppm	0.0067 ppm	0.0341 ppm	0.0106 ppm	0.0055 ppm	0.1155 ppm
Concentration per Run 2	0.0054 ppm	0.1098 ppm	0.0077 ppm	0.0330 ppm	0.0104 ppm	0.0054 ppm	0.1154 ppm
Concentration per Run 3	0.0055 ppm	0.1017 ppm	0.0065 ppm	0.0317 ppm	0.0104 ppm	0.0054 ppm	0.1148 ppm
Recovery Percentage 1	110.459 %	106.177 %	139.184 %	109.758 %	104.747 %	108.359 %	115.207 %
Concentration RSD	2.2 %	3.9 %	9.2 %	3.5 %	1.1 %	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	0.0043 ppm	0.0110 ppm	0.0106 ppm	0.0111 ppm	0.0831 ppm	2.7441 ppm	0.0112 ppm
Concentration per Run 1	0.0043 ppm	0.0111 ppm	0.0104 ppm	0.0114 ppm	0.0838 ppm	2.7562 ppm	0.0116 ppm
Concentration per Run 2	0.0042 ppm	0.0109 ppm	0.0107 ppm	0.0109 ppm	0.0846 ppm	2.7374 ppm	0.0108 ppm
Concentration per Run 3	0.0042 ppm	0.0110 ppm	0.0107 ppm	0.0112 ppm	0.0810 ppm	2.7386 ppm	0.0114 ppm
Recovery Percentage 1	106.387 %	109.972 %	105.903 %	111.481 %	166.290 %	109.763 %	112.495 %
Concentration RSD	1.3 %	1.2 %	1.9 %	2.4 %	2.3 %	0.4 %	3.5 %

	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	0.1111 ppm	0.0108 ppm	0.0567 ppm	2.1447 ppm	0.0215 ppm	0.0101 ppm	0.0575 ppm
Concentration per Run 1	0.1126 ppm	0.0110 ppm	0.0571 ppm	2.1148 ppm	0.0217 ppm	0.0102 ppm	0.0583 ppm
Concentration per Run 2	0.1111 ppm	0.0108 ppm	0.0566 ppm	2.1445 ppm	0.0212 ppm	0.0098 ppm	0.0571 ppm
Concentration per Run 3	0.1097 ppm	0.0106 ppm	0.0566 ppm	2.1749 ppm	0.0217 ppm	0.0102 ppm	0.0570 ppm
Recovery Percentage 1	111.141 %	108.141 %	113.479 %	107.236 %	86.147 %	100.531 %	114.949 %
Concentration RSD	1.3 %	1.8 %	0.5 %	1.4 %	1.4 %	2.6 %	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	0.0095 ppm	0.5372 ppm	0.0559 ppm	0.0106 ppm	0.0106 ppm	0.0204 ppm	0.0107 ppm
Concentration per Run 1	0.0093 ppm	0.5408 ppm	0.0557 ppm	0.0107 ppm	0.0106 ppm	0.0203 ppm	0.0109 ppm
Concentration per Run 2	0.0096 ppm	0.5338 ppm	0.0557 ppm	0.0105 ppm	0.0106 ppm	0.0203 ppm	0.0107 ppm
Concentration per Run 3	0.0097 ppm	0.5370 ppm	0.0561 ppm	0.0107 ppm	0.0106 ppm	0.0205 ppm	0.0105 ppm
Recovery Percentage 1	95.317 %	107.441 %	111.709 %	106.301 %	105.836 %	101.877 %	107.164 %
Concentration RSD	2.0 %	0.7 %	0.4 %	1.0 %	0.1 %	0.5 %	1.9 %

	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	0.0069 ppm	100.0538 %	101.9840 %	95.5070 %	97.2244 %	100.3674 %	97.5891 %
Concentration per Run 1	0.0070 ppm	99.4308 %	101.4228 %	94.8220 %	97.6397 %	99.9824 %	97.4499 %
Concentration per Run 2	0.0067 ppm	100.4225 %	101.6669 %	95.7786 %	97.4817 %	100.1705 %	97.8476 %
Concentration per Run 3	0.0069 ppm	100.3080 %	102.8621 %	95.9205 %	96.5517 %	100.9495 %	97.4700 %
Recovery Percentage 1	137.739 %						
Concentration RSD	2.5 %	0.5 %	0.8 %	0.6 %	0.6 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: ICSA
Analysis started at: 12/19/2024 6:24:08 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	0.0013 ppm	515.5475 [SIC 500]	-0.0018 ppm	-0.0007 ppm	0.0014 ppm	0.0001 ppm	470.5337 ppm
Concentration per Run 1	0.0017 ppm	514.5195 ppm	-0.0026 ppm	0.0002 ppm	0.0014 ppm	0.0001 ppm	468.4083 ppm
Concentration per Run 2	0.0009 ppm	518.0383 ppm	-0.0004 ppm	-0.0031 ppm	0.0014 ppm	0.0001 ppm	473.7426 ppm
Concentration per Run 3	0.0013 ppm	514.0848 ppm	-0.0025 ppm	0.0009 ppm	0.0014 ppm	0.0001 ppm	469.4502 ppm
Recovery Percentage 1	25.663 %	515,547.529 %	-36.503 %	-2.276 %	14.258 %	1.243 %	470,533.676 %
Concentration RSD	29.7 %	0.4 %	65.4 %	312.4 %	1.4 %	10.1 %	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	-0.0017 ppm	-0.0003 ppm	0.0003 ppm	-0.0002 ppm	180.5480 ppm	-0.0119 ppm	-0.0010 ppm
Concentration per Run 1	-0.0016 ppm	-0.0006 ppm	0.0002 ppm	0.0002 ppm	179.6877 ppm	-0.0047 ppm	-0.0007 ppm
Concentration per Run 2	-0.0018 ppm	-0.0004 ppm	0.0002 ppm	-0.0005 ppm	181.4824 ppm	-0.0119 ppm	-0.0008 ppm
Concentration per Run 3	-0.0017 ppm	0.0000 ppm	0.0004 ppm	-0.0004 ppm	180.4739 ppm	-0.0191 ppm	-0.0016 ppm
Recovery Percentage 1	-43.578 %	-3.160 %	2.702 %	-2.250 %	361,096.026 %	-0.477 %	-10.229 %
Concentration RSD	5.8 %	97.7 %	44.8 %	180.6 %	0.5 %	60.5 %	52.8 %

	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	460.5748 ppm	0.0016 ppm	-0.0006 ppm	0.0202 ppm	-0.0004 ppm	-0.0099 ppm	-0.0069 ppm
Concentration per Run 1	464.5697 ppm	0.0016 ppm	-0.0004 ppm	0.0205 ppm	-0.0006 ppm	-0.0093 ppm	-0.0043 ppm
Concentration per Run 2	457.1963 ppm	0.0015 ppm	-0.0009 ppm	0.0211 ppm	-0.0002 ppm	-0.0110 ppm	-0.0092 ppm
Concentration per Run 3	459.9585 ppm	0.0016 ppm	-0.0005 ppm	0.0189 ppm	-0.0005 ppm	-0.0094 ppm	-0.0071 ppm
Recovery Percentage 1	460,574.832 %	15.565 %	-1.173 %	1.008 %	-1.677 %	-99.173 %	-13.794 %
Concentration RSD	0.8 %	2.2 %	43.8 %	5.7 %	43.1 %	9.5 %	36.0 %

	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	-0.0037 ppm	-0.0199 ppm	0.0019 ppm	0.0013 ppm	-0.0010 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 1	-0.0029 ppm	-0.0192 ppm	0.0027 ppm	0.0013 ppm	-0.0010 ppm	-0.0006 ppm	-0.0002 ppm
Concentration per Run 2	-0.0053 ppm	-0.0190 ppm	-0.0002 ppm	0.0013 ppm	-0.0012 ppm	0.0003 ppm	-0.0003 ppm
Concentration per Run 3	-0.0030 ppm	-0.0215 ppm	0.0033 ppm	0.0013 ppm	-0.0009 ppm	0.0007 ppm	0.0002 ppm
Recovery Percentage 1	-37.452 %	-3.980 %	3.879 %	12.963 %	-10.444 %	0.612 %	-1.050 %
Concentration RSD	36.5 %	6.8 %	95.4 %	2.7 %	14.7 %	530.8 %	284.1 %

	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	-0.0011 ppm	83.0831 %	91.7660 %	64.3251 %	77.2001 %	89.7755 %	78.5304 %
Concentration per Run 1	-0.0011 ppm	82.5323 %	92.3761 %	64.5127 %	76.9213 %	90.2714 %	78.6420 %
Concentration per Run 2	-0.0012 ppm	83.4655 %	90.9646 %	64.4952 %	77.4621 %	89.1158 %	78.9787 %
Concentration per Run 3	-0.0009 ppm	83.2515 %	91.9572 %	63.9674 %	77.2169 %	89.9394 %	77.9704 %
Recovery Percentage 1	-21.115 %						
Concentration RSD	11.5 %	0.6 %	0.8 %	0.5 %	0.4 %	0.7 %	0.7 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: SIC Multi
Analysis started at: 12/19/2024 6:29:34 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	-0.0007 ppm	0.0197 ppm	-0.0042 ppm	0.0029 ppm	0.0002 ppm	-0.0008 ppm	0.0022 ppm
Concentration per Run 1	-0.0009 ppm	0.0200 ppm	-0.0033 ppm	0.0033 ppm	0.0002 ppm	-0.0010 ppm	0.0024 ppm
Concentration per Run 2	-0.0006 ppm	0.0177 ppm	-0.0036 ppm	0.0024 ppm	0.0003 ppm	-0.0008 ppm	0.0021 ppm
Concentration per Run 3	-0.0006 ppm	0.0213 ppm	-0.0058 ppm	0.0030 ppm	0.0002 ppm	-0.0007 ppm	0.0019 ppm
Recovery Percentage 1	-13.039 %	19.664 %	-84.540 %	9.657 %	2.165 %	-16.317 %	2.154 %
Concentration RSD	26.4 %	9.3 %	32.9 %	16.0 %	19.0 %	19.9 %	12.6 %

	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	0.0000 ppm	-0.0061 ppm	20.1466 ppm	-0.0015 ppm	0.0171 ppm	0.0064 ppm	0.0001 ppm
Concentration per Run 1	-0.0001 ppm	-0.0057 ppm	20.2635 ppm	-0.0015 ppm	0.0172 ppm	0.0047 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	-0.0063 ppm	20.1939 ppm	-0.0015 ppm	0.0168 ppm	0.0107 ppm	0.0002 ppm
Concentration per Run 3	-0.0001 ppm	-0.0063 ppm	19.9823 ppm	-0.0015 ppm	0.0174 ppm	0.0039 ppm	-0.0001 ppm
Recovery Percentage 1	-0.910 %	-61.157 %	201,465.612 %	-14.804 %	34.279 %	0.258 %	0.803 %
Concentration RSD	107.8 %	5.3 %	0.7 %	1.3 %	1.9 %	58.0 %	241.1 %

	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	0.0098 ppm	20.5622 [SIC 100]	0.0014 ppm	0.0021 ppm	0.0005 ppm	-0.0056 ppm	-0.0224 ppm
Concentration per Run 1	0.0121 ppm	20.5623 ppm	0.0017 ppm	-0.0003 ppm	0.0004 ppm	-0.0065 ppm	-0.0235 ppm
Concentration per Run 2	0.0080 ppm	20.5403 ppm	0.0013 ppm	0.0035 ppm	0.0004 ppm	-0.0049 ppm	-0.0201 ppm
Concentration per Run 3	0.0093 ppm	20.5841 ppm	0.0012 ppm	0.0030 ppm	0.0006 ppm	-0.0055 ppm	-0.0237 ppm
Recovery Percentage 1	9.771 %	205,622.399 %	2.853 %	0.103 %	1.942 %	-56.206 %	-44.885 %
Concentration RSD	21.7 %	0.1 %	19.5 %	100.5 %	19.1 %	13.7 %	9.1 %

	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	-0.0059 ppm	0.1274 ppm	-0.0087 ppm	0.0001 ppm	19.9594 ppm	0.0172 ppm	10.2748 [SIC 10]
Concentration per Run 1	-0.0051 ppm	0.1004 ppm	-0.0090 ppm	0.0000 ppm	20.0758 ppm	0.0165 ppm	10.3282 ppm
Concentration per Run 2	-0.0085 ppm	0.1296 ppm	-0.0085 ppm	0.0001 ppm	19.9796 ppm	0.0179 ppm	10.2879 ppm
Concentration per Run 3	-0.0042 ppm	0.1522 ppm	-0.0087 ppm	0.0001 ppm	19.8227 ppm	0.0173 ppm	10.2082 ppm
Recovery Percentage 1	-59.194 %	25.478 %	-17.467 %	0.651 %	199,593.626 %	86.233 %	102,747.670 %
Concentration RSD	38.4 %	20.4 %	2.8 %	28.9 %	0.6 %	4.2 %	0.6 %

	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	100.9861 %	101.8347 %	63.6225 %	96.1733 %	99.9929 %	97.5142 %
Concentration per Run 1	0.0004 ppm	100.7858 %	101.8109 %	63.7922 %	96.2230 %	99.7977 %	97.7198 %
Concentration per Run 2	0.0004 ppm	100.3429 %	101.5834 %	63.3199 %	95.4551 %	99.7054 %	97.4550 %
Concentration per Run 3	0.0001 ppm	101.8297 %	102.1099 %	63.7554 %	96.8417 %	100.4756 %	97.3678 %
Recovery Percentage 1	6.057 %						
Concentration RSD	47.4 %	0.8 %	0.3 %	0.4 %	0.7 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: LDR Check
Analysis started at: 12/19/2024 6:34:34 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	0.0028 ppm	0.0076 ppm	22.4251 ppm	19.8073 ppm	18.7660 ppm	5.1158 ppm	0.0319 ppm
Concentration per Run 1	0.0026 ppm	0.0123 ppm	22.3831 ppm	19.8245 ppm	18.7619 ppm	5.1114 ppm	0.0324 ppm
Concentration per Run 2	0.0028 ppm	0.0058 ppm	22.5450 ppm	19.7522 ppm	18.7969 ppm	5.1212 ppm	0.0324 ppm
Concentration per Run 3	0.0030 ppm	0.0049 ppm	22.3473 ppm	19.8451 ppm	18.7393 ppm	5.1147 ppm	0.0311 ppm
Recovery Percentage 1			112.126 %	99.036 %	93.830 %		0.000 %
Concentration RSD	7.1 %	52.9 %	0.5 %	0.2 %	0.2 %	0.1 %	2.3 %

	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	5.1163 ppm	5.0561 ppm	0.0016 ppm	19.4503 ppm	0.0097 ppm	504.6156 ppm	18.5223 ppm
Concentration per Run 1	5.1484 ppm	5.0848 ppm	0.0019 ppm	19.4044 ppm	0.0098 ppm	500.6177 ppm	18.2902 ppm
Concentration per Run 2	5.0929 ppm	5.0312 ppm	0.0014 ppm	19.4840 ppm	0.0096 ppm	505.7678 ppm	18.6096 ppm
Concentration per Run 3	5.1075 ppm	5.0522 ppm	0.0013 ppm	19.4624 ppm	0.0098 ppm	507.4612 ppm	18.6671 ppm
Recovery Percentage 1	102.325 %	101.121 %		97.251 %	0.000 %	100.923 %	92.611 %
Concentration RSD	0.6 %	0.5 %	22.0 %	0.2 %	1.4 %	0.7 %	1.1 %

	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	-0.0071 ppm	0.0010 ppm	4.9157 ppm	442.2489 [SIC 500]	9.8761 ppm	52.8468 ppm	5.1745 ppm
Concentration per Run 1	-0.0075 ppm	0.0010 ppm	4.8459 ppm	440.5035 ppm	9.9268 ppm	52.8282 ppm	5.1437 ppm
Concentration per Run 2	-0.0074 ppm	0.0011 ppm	4.8942 ppm	443.7282 ppm	9.8304 ppm	52.9209 ppm	5.1728 ppm
Concentration per Run 3	-0.0063 ppm	0.0009 ppm	5.0070 ppm	442.5151 ppm	9.8709 ppm	52.7911 ppm	5.2068 ppm
Recovery Percentage 1		0.000 %	98.314 %	88.450 %	98.761 %	105.694 %	103.489 %
Concentration RSD	9.6 %	10.7 %	1.7 %	0.4 %	0.5 %	0.1 %	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	5.2733 [SIC 20]	21.5238 [SIC 100]	10.2522 [SIC 20]	4.9977 ppm	0.0105 ppm	4.7800 ppm	0.0033 ppm
Concentration per Run 1	5.2567 ppm	21.4614 ppm	10.2995 ppm	4.9932 ppm	0.0114 ppm	4.7638 ppm	0.0036 ppm
Concentration per Run 2	5.3127 ppm	21.5107 ppm	10.1852 ppm	5.0035 ppm	0.0102 ppm	4.8027 ppm	0.0031 ppm
Concentration per Run 3	5.2506 ppm	21.5994 ppm	10.2719 ppm	4.9964 ppm	0.0099 ppm	4.7736 ppm	0.0034 ppm
Recovery Percentage 1	105.466 %	107.619 %	102.522 %	99.953 %	0.000 %	95.601 %	0.000 %
Concentration RSD	0.6 %	0.3 %	0.6 %	0.1 %	7.3 %	0.4 %	7.6 %

	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	20.9528 [SIC 50]	86.0093 %	94.5538 %	70.2842 %	79.8270 %	91.6344 %	81.4276 %
Concentration per Run 1	21.1180 ppm	85.4912 %	95.2109 %	70.5250 %	79.5449 %	92.4493 %	81.4224 %
Concentration per Run 2	20.8296 ppm	86.1427 %	94.2446 %	70.0961 %	79.7782 %	91.2601 %	81.1966 %
Concentration per Run 3	20.9107 ppm	86.3941 %	94.2060 %	70.2314 %	80.1577 %	91.1936 %	81.6639 %
Recovery Percentage 1	104.764 %						
Concentration RSD	0.7 %	0.5 %	0.6 %	0.3 %	0.4 %	0.8 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: xLLOQ 0.005
Analysis started at: 12/19/2024 6:56:49 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	0.0054 ppm	0.1635 ppm	0.0072 ppm	0.0067 ppm	0.0056 ppm	0.0050 ppm	0.2992 ppm
Concentration per Run 1	0.0055 ppm	0.1641 ppm	0.0073 ppm	0.0064 ppm	0.0056 ppm	0.0050 ppm	0.3004 ppm
Concentration per Run 2	0.0053 ppm	0.1616 ppm	0.0065 ppm	0.0076 ppm	0.0056 ppm	0.0050 ppm	0.2984 ppm
Concentration per Run 3	0.0055 ppm	0.1649 ppm	0.0078 ppm	0.0063 ppm	0.0055 ppm	0.0050 ppm	0.2988 ppm
Recovery Percentage 1	108.529 %	0.000 %	144.169 %	0.000 %	0.000 %	100.411 %	0.000 %
Concentration RSD	2.8 %	1.1 %	8.7 %	11.1 %	0.6 %	0.5 %	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	0.0053 ppm	0.0053 ppm	0.0053 ppm	0.0060 ppm	0.2196 ppm	0.2081 ppm	0.0059 ppm
Concentration per Run 1	0.0053 ppm	0.0055 ppm	0.0055 ppm	0.0061 ppm	0.2204 ppm	0.2117 ppm	0.0061 ppm
Concentration per Run 2	0.0053 ppm	0.0050 ppm	0.0053 ppm	0.0058 ppm	0.2191 ppm	0.2064 ppm	0.0057 ppm
Concentration per Run 3	0.0052 ppm	0.0054 ppm	0.0052 ppm	0.0060 ppm	0.2194 ppm	0.2063 ppm	0.0058 ppm
Recovery Percentage 1	105.211 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	0.7 %	4.9 %	3.4 %	2.5 %	0.3 %	1.5 %	3.3 %

	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	0.1020 ppm	0.0072 ppm	0.0058 ppm	0.1463 ppm	0.0063 ppm	0.0060 ppm	0.0098 ppm
Concentration per Run 1	0.1030 ppm	0.0071 ppm	0.0063 ppm	0.1469 ppm	0.0066 ppm	0.0060 ppm	0.0088 ppm
Concentration per Run 2	0.1025 ppm	0.0073 ppm	0.0057 ppm	0.1443 ppm	0.0060 ppm	0.0059 ppm	0.0107 ppm
Concentration per Run 3	0.1006 ppm	0.0071 ppm	0.0056 ppm	0.1477 ppm	0.0064 ppm	0.0062 ppm	0.0101 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	1.2 %	1.8 %	6.1 %	1.2 %	4.7 %	2.6 %	9.7 %

	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	0.0042 ppm	0.0479 ppm	0.0064 ppm	0.0056 ppm	0.0060 ppm	0.0042 ppm	0.0052 ppm
Concentration per Run 1	0.0024 ppm	0.0489 ppm	0.0067 ppm	0.0056 ppm	0.0061 ppm	0.0036 ppm	0.0053 ppm
Concentration per Run 2	0.0045 ppm	0.0467 ppm	0.0056 ppm	0.0057 ppm	0.0058 ppm	0.0045 ppm	0.0051 ppm
Concentration per Run 3	0.0056 ppm	0.0479 ppm	0.0068 ppm	0.0056 ppm	0.0061 ppm	0.0045 ppm	0.0051 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	38.9 %	2.3 %	10.6 %	0.7 %	2.4 %	12.5 %	2.4 %

	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	0.0070 ppm	97.2644 %	100.3225 %	94.8782 %	98.3127 %	101.1220 %	99.7109 %
Concentration per Run 1	0.0071 ppm	96.0177 %	100.1739 %	94.3493 %	98.3473 %	101.2224 %	99.6882 %
Concentration per Run 2	0.0071 ppm	97.9598 %	100.2833 %	95.1279 %	98.6496 %	100.9508 %	99.6742 %
Concentration per Run 3	0.0068 ppm	97.8155 %	100.5103 %	95.1574 %	97.9412 %	101.1929 %	99.7701 %
Recovery Percentage 1	139.873 %						
Concentration RSD	2.0 %	1.1 %	0.2 %	0.5 %	0.4 %	0.1 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: LLOQ 0.01 AS PASS
Analysis started at: 12/19/2024 7:01:20 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	0.0107 ppm	0.2512 ppm	0.0115 ppm	0.0112 ppm	0.0098 ppm	0.0100 ppm	0.1184 ppm
Concentration per Run 1	0.0110 ppm	0.2516 ppm	0.0126 ppm	0.0111 ppm	0.0099 ppm	0.0100 ppm	0.1209 ppm
Concentration per Run 2	0.0108 ppm	0.2534 ppm	0.0110 ppm	0.0115 ppm	0.0098 ppm	0.0100 ppm	0.1166 ppm
Concentration per Run 3	0.0105 ppm	0.2487 ppm	0.0109 ppm	0.0110 ppm	0.0097 ppm	0.0099 ppm	0.1176 ppm
Recovery Percentage 1	0.000 %	0.000 %	115.088 %	112.207 %	98.052 %	0.000 %	0.000 %
Concentration RSD	2.3 %	1.0 %	8.0 %	2.3 %	0.8 %	0.5 %	1.9 %

	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	0.0105 ppm	0.0112 ppm	0.0104 ppm	0.0106 ppm	0.2705 ppm	0.3672 ppm	0.0108 ppm
Concentration per Run 1	0.0106 ppm	0.0114 ppm	0.0104 ppm	0.0109 ppm	0.2703 ppm	0.3740 ppm	0.0112 ppm
Concentration per Run 2	0.0105 ppm	0.0111 ppm	0.0106 ppm	0.0106 ppm	0.2746 ppm	0.3653 ppm	0.0112 ppm
Concentration per Run 3	0.0104 ppm	0.0112 ppm	0.0103 ppm	0.0103 ppm	0.2666 ppm	0.3623 ppm	0.0100 ppm
Recovery Percentage 1	0.000 %	112.410 %	104.437 %	105.989 %	0.000 %	0.000 %	108.126 %
Concentration RSD	1.0 %	1.0 %	1.0 %	3.0 %	1.5 %	1.7 %	6.2 %

	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	0.1114 ppm	0.0103 ppm	0.0109 ppm	0.2574 ppm	0.0113 ppm	0.0100 ppm	0.0145 ppm
Concentration per Run 1	0.1124 ppm	0.0103 ppm	0.0109 ppm	0.2602 ppm	0.0116 ppm	0.0102 ppm	0.0175 ppm
Concentration per Run 2	0.1093 ppm	0.0104 ppm	0.0109 ppm	0.2572 ppm	0.0109 ppm	0.0099 ppm	0.0127 ppm
Concentration per Run 3	0.1124 ppm	0.0102 ppm	0.0108 ppm	0.2547 ppm	0.0114 ppm	0.0100 ppm	0.0134 ppm
Recovery Percentage 1	0.000 %	102.807 %	108.742 %	0.000 %	113.059 %	100.006 %	0.000 %
Concentration RSD	1.6 %	1.1 %	0.3 %	1.1 %	3.0 %	1.7 %	18.1 %

	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	0.0094 ppm	0.0988 ppm	**0.0123 ppm**	0.0102 ppm	0.0101 ppm	0.0096 ppm	0.0104 ppm
Concentration per Run 1	0.0083 ppm	0.0982 ppm	0.0122 ppm	0.0102 ppm	0.0102 ppm	0.0094 ppm	0.0105 ppm
Concentration per Run 2	0.0107 ppm	0.0990 ppm	0.0122 ppm	0.0102 ppm	0.0101 ppm	0.0101 ppm	0.0103 ppm
Concentration per Run 3	0.0091 ppm	0.0992 ppm	0.0124 ppm	0.0101 ppm	0.0101 ppm	0.0094 ppm	0.0105 ppm
Recovery Percentage 1	93.518 %	0.000 %	122.565 %	101.891 %	101.409 %	96.489 %	104.229 %
Concentration RSD	13.2 %	0.5 %	**1.3 %**	0.7 %	0.9 %	3.7 %	0.8 %

	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	0.0111 ppm	96.2227 %	99.9498 %	94.3420 %	97.3499 %	100.1004 %	98.8222 %
Concentration per Run 1	0.0113 ppm	95.2159 %	99.8306 %	94.0228 %	97.8667 %	100.0050 %	99.0569 %
Concentration per Run 2	0.0110 ppm	96.7727 %	99.6386 %	94.1399 %	97.4673 %	100.1494 %	98.7310 %
Concentration per Run 3	0.0110 ppm	96.6795 %	100.3804 %	94.8633 %	96.7158 %	100.1469 %	98.6785 %
Recovery Percentage 1	111.028 %						
Concentration RSD	1.5 %	0.9 %	0.4 %	0.5 %	0.6 %	0.1 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: LLOQ 0.05 FE PASS
Analysis started at: 12/19/2024 7:05:44 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	0.0529 ppm	0.0525 ppm	0.0497 ppm	0.0532 ppm	0.0500 ppm	0.0515 ppm	0.0593 ppm
Concentration per Run 1	0.0536 ppm	0.0534 ppm	0.0499 ppm	0.0542 ppm	0.0501 ppm	0.0514 ppm	0.0582 ppm
Concentration per Run 2	0.0526 ppm	0.0522 ppm	0.0490 ppm	0.0523 ppm	0.0500 ppm	0.0515 ppm	0.0614 ppm
Concentration per Run 3	0.0526 ppm	0.0517 ppm	0.0502 ppm	0.0531 ppm	0.0499 ppm	0.0515 ppm	0.0584 ppm
Recovery Percentage 1	0.000 %	104.910 %	0.000 %	0.000 %	0.000 %	0.000 %	118.635 %
Concentration RSD	1.0 %	1.7 %	1.3 %	1.8 %	0.2 %	0.1 %	3.0 %

	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	0.0530 ppm	0.0558 ppm	0.0531 ppm	0.0532 ppm	0.0562 ppm	0.5375 ppm	0.0532 ppm
Concentration per Run 1	0.0539 ppm	0.0564 ppm	0.0537 ppm	0.0537 ppm	0.0553 ppm	0.5426 ppm	0.0539 ppm
Concentration per Run 2	0.0523 ppm	0.0556 ppm	0.0529 ppm	0.0529 ppm	0.0564 ppm	0.5289 ppm	0.0525 ppm
Concentration per Run 3	0.0528 ppm	0.0555 ppm	0.0527 ppm	0.0530 ppm	0.0568 ppm	0.5410 ppm	0.0531 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	112.348 %	21.500 %	0.000 %
Concentration RSD	1.5 %	0.8 %	0.9 %	0.8 %	1.3 %	1.4 %	1.3 %

	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	0.0557 ppm	0.0510 ppm	0.0545 ppm	1.0498 ppm	0.0552 ppm	0.0514 ppm	0.0546 ppm
Concentration per Run 1	0.0550 ppm	0.0510 ppm	0.0552 ppm	1.0571 ppm	0.0567 ppm	0.0518 ppm	0.0570 ppm
Concentration per Run 2	0.0548 ppm	0.0510 ppm	0.0538 ppm	1.0396 ppm	0.0542 ppm	0.0513 ppm	0.0543 ppm
Concentration per Run 3	0.0572 ppm	0.0509 ppm	0.0544 ppm	1.0527 ppm	0.0546 ppm	0.0511 ppm	0.0524 ppm
Recovery Percentage 1	111.329 %	0.000 %	0.000 %	104.980 %	0.000 %	0.000 %	109.144 %
Concentration RSD	2.4 %	0.1 %	1.3 %	0.9 %	2.4 %	0.7 %	4.3 %

	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	0.0484 ppm	0.5701 ppm	0.0564 ppm	0.0530 ppm	0.0525 ppm	0.0510 ppm	0.0522 ppm
Concentration per Run 1	0.0481 ppm	0.5771 ppm	0.0577 ppm	0.0531 ppm	0.0533 ppm	0.0513 ppm	0.0534 ppm
Concentration per Run 2	0.0474 ppm	0.5633 ppm	0.0555 ppm	0.0529 ppm	0.0519 ppm	0.0510 ppm	0.0514 ppm
Concentration per Run 3	0.0497 ppm	0.5699 ppm	0.0559 ppm	0.0529 ppm	0.0521 ppm	0.0508 ppm	0.0517 ppm
Recovery Percentage 1	0.000 %	114.020 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	2.5 %	1.2 %	2.1 %	0.2 %	1.4 %	0.6 %	2.1 %

	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	0.0538 ppm	96.9035 %	100.9113 %	94.0203 %	97.8763 %	100.7767 %	98.9981 %
Concentration per Run 1	0.0555 ppm	95.1858 %	100.8873 %	93.4329 %	97.5293 %	101.0739 %	98.9907 %
Concentration per Run 2	0.0526 ppm	97.5248 %	101.0170 %	93.7101 %	98.5512 %	100.7507 %	98.8011 %
Concentration per Run 3	0.0532 ppm	97.9999 %	100.8296 %	94.9178 %	97.5485 %	100.5055 %	99.2025 %
Recovery Percentage 1	107.536 %						
Concentration RSD	2.9 %	1.6 %	0.1 %	0.8 %	0.6 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: LDR 20PPM AS
Analysis started at: 12/19/2024 7:10:09 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	0.0002 ppm	0.0026 ppm	20.1337 ppm	-0.0019 ppm	0.0000 ppm	0.0000 ppm	0.0106 ppm
Concentration per Run 1	0.0001 ppm	0.0010 ppm	20.2537 ppm	-0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0093 ppm
Concentration per Run 2	0.0002 ppm	0.0013 ppm	20.0248 ppm	-0.0019 ppm	0.0000 ppm	0.0000 ppm	0.0112 ppm
Concentration per Run 3	0.0003 ppm	0.0056 ppm	20.1226 ppm	-0.0024 ppm	0.0001 ppm	0.0000 ppm	0.0112 ppm
Concentration RSD	30.3 %	98.4 %	0.6 %	31.2 %	258.7 %	82.3 %	10.4 %

	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	-0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0052 ppm	0.0104 ppm	0.0007 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0054 ppm	0.0060 ppm	0.0007 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0050 ppm	0.0121 ppm	0.0006 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0054 ppm	0.0131 ppm	0.0007 ppm
Concentration RSD	161.7 %	72.0 %	169.7 %	37.4 %	4.7 %	36.9 %	13.6 %

	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	0.0018 ppm	0.0000 ppm	0.0000 ppm	0.0144 ppm	0.0000 ppm	-0.0002 ppm	0.0031 ppm
Concentration per Run 1	0.0016 ppm	0.0000 ppm	0.0001 ppm	0.0146 ppm	-0.0003 ppm	-0.0004 ppm	0.0039 ppm
Concentration per Run 2	0.0025 ppm	-0.0002 ppm	-0.0001 ppm	0.0149 ppm	0.0004 ppm	-0.0002 ppm	0.0023 ppm
Concentration per Run 3	0.0014 ppm	0.0002 ppm	0.0002 ppm	0.0138 ppm	-0.0002 ppm	0.0000 ppm	0.0031 ppm
Concentration RSD	31.2 %	611.4 %	245.3 %	3.8 %	795.4 %	86.6 %	25.4 %

	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	-0.0004 ppm	-0.0008 ppm	-0.0002 ppm	0.0001 ppm	-0.0001 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 1	0.0003 ppm	-0.0010 ppm	-0.0005 ppm	0.0001 ppm	-0.0001 ppm	-0.0011 ppm	-0.0001 ppm
Concentration per Run 2	-0.0017 ppm	-0.0005 ppm	-0.0002 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 3	0.0001 ppm	-0.0007 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0005 ppm	0.0000 ppm
Concentration RSD	272.0 %	32.1 %	124.5 %	14.9 %	81.9 %	99.9 %	3,373.9 %

	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	0.0013 ppm	99.5678 %	102.3099 %	96.1090 %	99.1727 %	101.3927 %	99.9886 %
Concentration per Run 1	0.0012 ppm	98.4963 %	102.5028 %	94.9918 %	99.3000 %	101.6060 %	99.7251 %
Concentration per Run 2	0.0014 ppm	99.3258 %	102.1338 %	96.3693 %	98.9496 %	101.1341 %	100.0331 %
Concentration per Run 3	0.0012 ppm	100.8812 %	102.2931 %	96.9659 %	99.2687 %	101.4382 %	100.2076 %
Concentration RSD	10.8 %	1.2 %	0.2 %	1.1 %	0.2 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: XLDR 500PPM NA
Analysis started at: 12/19/2024 7:14:42 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	0.0001 ppm	0.0005 ppm	0.0033 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0068 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0025 ppm	0.0010 ppm	0.0001 ppm	0.0000 ppm	0.0067 ppm
Concentration per Run 2	0.0000 ppm	0.0046 ppm	0.0050 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0060 ppm
Concentration per Run 3	0.0003 ppm	-0.0032 ppm	0.0026 ppm	0.0014 ppm	0.0000 ppm	0.0000 ppm	0.0076 ppm
Concentration RSD	98.2 %	829.1 %	42.1 %	42.4 %	110.1 %	343.0 %	11.9 %

	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	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0006 ppm	0.0027 ppm	0.2206 ppm	0.0036 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0007 ppm	0.0035 ppm	0.2180 ppm	0.0034 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0008 ppm	0.0025 ppm	0.2192 ppm	0.0038 ppm
Concentration per Run 3	0.0000 ppm	0.0008 ppm	0.0001 ppm	0.0005 ppm	0.0022 ppm	0.2245 ppm	0.0035 ppm
Concentration RSD	2,911.9 %	162.8 %	71.7 %	23.1 %	25.4 %	1.6 %	6.0 %

	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	0.0010 ppm	0.0003 ppm	-0.0002 ppm	432.6068 [SIC 500]	0.0043 ppm	0.0002 ppm	0.0026 ppm
Concentration per Run 1	0.0004 ppm	0.0002 ppm	-0.0007 ppm	432.7039 ppm	0.0043 ppm	0.0000 ppm	0.0022 ppm
Concentration per Run 2	0.0021 ppm	0.0003 ppm	0.0001 ppm	434.9977 ppm	0.0039 ppm	0.0001 ppm	0.0027 ppm
Concentration per Run 3	0.0007 ppm	0.0002 ppm	-0.0002 ppm	430.1190 ppm	0.0049 ppm	0.0006 ppm	0.0030 ppm
Concentration RSD	85.5 %	15.1 %	162.1 %	0.6 %	12.0 %	115.1 %	15.4 %

	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	-0.0006 ppm	-0.0028 ppm	-0.0006 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 1	-0.0002 ppm	-0.0042 ppm	-0.0007 ppm	0.0001 ppm	0.0000 ppm	-0.0004 ppm	0.0002 ppm
Concentration per Run 2	0.0000 ppm	-0.0030 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 3	-0.0015 ppm	-0.0012 ppm	-0.0009 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm
Concentration RSD	144.6 %	52.4 %	76.4 %	62.7 %	138.4 %	151.1 %	127.0 %

	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	0.0004 ppm	83.8125 %	94.7210 %	74.8966 %	84.4394 %	94.3620 %	88.4555 %
Concentration per Run 1	0.0004 ppm	82.7381 %	94.2966 %	74.6151 %	84.4087 %	94.1124 %	88.9389 %
Concentration per Run 2	0.0003 ppm	83.8102 %	94.9495 %	74.6850 %	84.2609 %	94.5334 %	88.0194 %
Concentration per Run 3	0.0005 ppm	84.8892 %	94.9169 %	75.3899 %	84.6485 %	94.4404 %	88.4080 %
Concentration RSD	22.9 %	1.3 %	0.4 %	0.6 %	0.2 %	0.2 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: XLDR 400PPM FE
Analysis started at: 12/19/2024 7:19:08 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	0.0011 ppm	0.0344 ppm	0.0059 ppm	0.0026 ppm	0.0003 ppm	0.0000 ppm	0.0134 ppm
Concentration per Run 1	0.0011 ppm	0.0336 ppm	0.0069 ppm	0.0033 ppm	0.0003 ppm	0.0000 ppm	0.0136 ppm
Concentration per Run 2	0.0012 ppm	0.0352 ppm	0.0058 ppm	0.0025 ppm	0.0004 ppm	0.0000 ppm	0.0138 ppm
Concentration per Run 3	0.0010 ppm	0.0345 ppm	0.0050 ppm	0.0020 ppm	0.0003 ppm	0.0000 ppm	0.0129 ppm
Concentration RSD	7.9 %	2.4 %	16.1 %	25.9 %	9.4 %	227.9 %	3.6 %

	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	0.0004 ppm	-0.0014 ppm	-0.0008 ppm	0.0011 ppm	356.6857 [SIC 500]	-0.0120 ppm	0.0005 ppm
Concentration per Run 1	0.0003 ppm	-0.0015 ppm	-0.0006 ppm	0.0014 ppm	354.3087 ppm	-0.0176 ppm	0.0002 ppm
Concentration per Run 2	0.0004 ppm	-0.0012 ppm	-0.0008 ppm	0.0007 ppm	357.9340 ppm	-0.0034 ppm	0.0008 ppm
Concentration per Run 3	0.0005 ppm	-0.0014 ppm	-0.0012 ppm	0.0012 ppm	357.8145 ppm	-0.0149 ppm	0.0006 ppm
Concentration RSD	23.8 %	13.9 %	36.7 %	36.3 %	0.6 %	63.0 %	62.4 %

	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	0.0406 ppm	0.0004 ppm	-0.0031 ppm	0.0531 ppm	-0.0014 ppm	-0.0026 ppm	0.0057 ppm
Concentration per Run 1	0.0414 ppm	0.0005 ppm	-0.0031 ppm	0.0531 ppm	-0.0013 ppm	-0.0021 ppm	0.0058 ppm
Concentration per Run 2	0.0401 ppm	0.0004 ppm	-0.0032 ppm	0.0525 ppm	-0.0014 ppm	-0.0028 ppm	0.0053 ppm
Concentration per Run 3	0.0404 ppm	0.0005 ppm	-0.0029 ppm	0.0537 ppm	-0.0014 ppm	-0.0028 ppm	0.0060 ppm
Concentration RSD	1.7 %	12.7 %	4.5 %	1.1 %	6.0 %	16.4 %	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	-0.0032 ppm	-0.0021 ppm	0.0016 ppm	0.0003 ppm	-0.0002 ppm	-0.0005 ppm	-0.0005 ppm
Concentration per Run 1	-0.0027 ppm	-0.0026 ppm	0.0009 ppm	0.0002 ppm	-0.0002 ppm	-0.0004 ppm	-0.0004 ppm
Concentration per Run 2	-0.0024 ppm	-0.0018 ppm	0.0025 ppm	0.0003 ppm	-0.0002 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 3	-0.0045 ppm	-0.0018 ppm	0.0014 ppm	0.0003 ppm	-0.0002 ppm	-0.0006 ppm	-0.0009 ppm
Concentration RSD	35.7 %	23.8 %	50.4 %	16.5 %	10.3 %	17.5 %	88.1 %

	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	0.0013 ppm	98.5735 %	100.6571 %	84.4574 %	93.2185 %	98.5944 %	94.0037 %
Concentration per Run 1	0.0013 ppm	98.5158 %	101.6294 %	84.3904 %	93.5377 %	99.3506 %	94.1982 %
Concentration per Run 2	0.0012 ppm	98.9479 %	100.3358 %	84.2785 %	93.7777 %	98.2350 %	93.9213 %
Concentration per Run 3	0.0013 ppm	98.2570 %	100.0061 %	84.7031 %	92.3402 %	98.1976 %	93.8915 %
Concentration RSD	5.9 %	0.4 %	0.9 %	0.3 %	0.8 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: LDR 1000PPM CA
Analysis started at: 12/19/2024 7:24:34 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	-0.0006 ppm	0.0141 ppm	0.0015 ppm	0.0016 ppm	0.0009 ppm	0.0000 ppm	935.0169 ppm
Concentration per Run 1	-0.0006 ppm	0.0128 ppm	0.0012 ppm	0.0014 ppm	0.0009 ppm	0.0000 ppm	936.9091 ppm
Concentration per Run 2	-0.0006 ppm	0.0097 ppm	0.0026 ppm	0.0022 ppm	0.0009 ppm	0.0000 ppm	935.5196 ppm
Concentration per Run 3	-0.0008 ppm	0.0197 ppm	0.0008 ppm	0.0010 ppm	0.0009 ppm	0.0000 ppm	932.6219 ppm
Concentration RSD	16.4 %	36.1 %	64.2 %	39.1 %	3.0 %	31.4 %	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	-0.0007 ppm	0.0006 ppm	0.0002 ppm	0.0009 ppm	0.0218 ppm	0.0314 ppm	0.0078 ppm
Concentration per Run 1	-0.0007 ppm	0.0002 ppm	0.0004 ppm	0.0010 ppm	0.0239 ppm	0.0327 ppm	0.0048 ppm
Concentration per Run 2	-0.0006 ppm	0.0007 ppm	0.0000 ppm	0.0010 ppm	0.0213 ppm	0.0281 ppm	0.0069 ppm
Concentration per Run 3	-0.0008 ppm	0.0008 ppm	0.0001 ppm	0.0008 ppm	0.0202 ppm	0.0335 ppm	0.0118 ppm
Concentration RSD	14.1 %	61.5 %	103.9 %	14.0 %	8.7 %	9.1 %	45.6 %

	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	0.0146 ppm	0.0004 ppm	-0.0002 ppm	0.0308 ppm	0.0006 ppm	0.0009 ppm	0.0002 ppm
Concentration per Run 1	0.0148 ppm	0.0004 ppm	-0.0002 ppm	0.0310 ppm	0.0005 ppm	0.0011 ppm	0.0010 ppm
Concentration per Run 2	0.0152 ppm	0.0005 ppm	-0.0003 ppm	0.0311 ppm	0.0007 ppm	0.0013 ppm	-0.0005 ppm
Concentration per Run 3	0.0138 ppm	0.0004 ppm	-0.0002 ppm	0.0302 ppm	0.0005 ppm	0.0004 ppm	0.0000 ppm
Concentration RSD	4.8 %	4.8 %	27.3 %	1.5 %	24.0 %	51.9 %	393.4 %

	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	-0.0011 ppm	0.0040 ppm	0.0000 ppm	0.0020 ppm	-0.0020 ppm	0.0002 ppm	0.0009 ppm
Concentration per Run 1	-0.0012 ppm	0.0046 ppm	0.0003 ppm	0.0021 ppm	-0.0020 ppm	-0.0005 ppm	0.0007 ppm
Concentration per Run 2	0.0004 ppm	0.0036 ppm	0.0001 ppm	0.0019 ppm	-0.0021 ppm	0.0002 ppm	0.0008 ppm
Concentration per Run 3	-0.0027 ppm	0.0040 ppm	-0.0005 ppm	0.0021 ppm	-0.0019 ppm	0.0010 ppm	0.0011 ppm
Concentration RSD	136.7 %	13.2 %	1,309.6 %	5.0 %	3.2 %	330.3 %	27.3 %

	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	0.0016 ppm	79.0841 %	89.9458 %	67.2253 %	81.7120 %	91.6069 %	83.4318 %
Concentration per Run 1	0.0016 ppm	78.2470 %	89.8180 %	66.7533 %	81.8843 %	91.6658 %	83.5157 %
Concentration per Run 2	0.0016 ppm	79.1428 %	89.7036 %	67.7635 %	81.8088 %	91.5515 %	83.8416 %
Concentration per Run 3	0.0015 ppm	79.8624 %	90.3159 %	67.1591 %	81.4429 %	91.6035 %	82.9379 %
Concentration RSD	5.6 %	1.0 %	0.4 %	0.8 %	0.3 %	0.1 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: LLOQ 0.005 ZN PASS
Analysis started at: 12/19/2024 7:31:34 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	0.0055 ppm	0.0051 ppm	0.0062 ppm	0.0064 ppm	0.0052 ppm	0.0052 ppm	0.0310 ppm
Concentration per Run 1	0.0056 ppm	0.0048 ppm	0.0078 ppm	0.0067 ppm	0.0052 ppm	0.0053 ppm	0.0334 ppm
Concentration per Run 2	0.0057 ppm	0.0037 ppm	0.0053 ppm	0.0066 ppm	0.0051 ppm	0.0052 ppm	0.0303 ppm
Concentration per Run 3	0.0052 ppm	0.0067 ppm	0.0055 ppm	0.0059 ppm	0.0053 ppm	0.0053 ppm	0.0292 ppm
Recovery Percentage 1	109.610 %	0.000 %	124.104 %	0.000 %	0.000 %	104.867 %	0.000 %
Concentration RSD	4.9 %	30.5 %	22.4 %	7.3 %	1.7 %	1.2 %	7.1 %

	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	0.0054 ppm	0.0058 ppm	0.0054 ppm	0.0055 ppm	0.0099 ppm	0.0683 ppm	0.0055 ppm
Concentration per Run 1	0.0055 ppm	0.0062 ppm	0.0054 ppm	0.0057 ppm	0.0101 ppm	0.0770 ppm	0.0056 ppm
Concentration per Run 2	0.0053 ppm	0.0057 ppm	0.0052 ppm	0.0054 ppm	0.0096 ppm	0.0567 ppm	0.0056 ppm
Concentration per Run 3	0.0055 ppm	0.0056 ppm	0.0054 ppm	0.0054 ppm	0.0101 ppm	0.0713 ppm	0.0053 ppm
Recovery Percentage 1	108.192 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	1.8 %	5.4 %	2.0 %	3.9 %	2.5 %	15.4 %	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	0.0066 ppm	0.0052 ppm	0.0051 ppm	0.1195 ppm	0.0056 ppm	0.0044 ppm	0.0062 ppm
Concentration per Run 1	0.0063 ppm	0.0053 ppm	0.0051 ppm	0.1200 ppm	0.0058 ppm	0.0048 ppm	0.0071 ppm
Concentration per Run 2	0.0066 ppm	0.0051 ppm	0.0049 ppm	0.1172 ppm	0.0055 ppm	0.0044 ppm	0.0057 ppm
Concentration per Run 3	0.0067 ppm	0.0053 ppm	0.0052 ppm	0.1212 ppm	0.0054 ppm	0.0040 ppm	0.0057 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	3.5 %	2.3 %	3.0 %	1.7 %	4.3 %	9.1 %	13.2 %

	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	0.0031 ppm	0.0557 ppm	0.0053 ppm	0.0055 ppm	0.0052 ppm	0.0051 ppm	0.0052 ppm
Concentration per Run 1	0.0034 ppm	0.0555 ppm	0.0058 ppm	0.0055 ppm	0.0054 ppm	0.0045 ppm	0.0053 ppm
Concentration per Run 2	0.0021 ppm	0.0553 ppm	0.0056 ppm	0.0054 ppm	0.0052 ppm	0.0051 ppm	0.0052 ppm
Concentration per Run 3	0.0037 ppm	0.0563 ppm	0.0046 ppm	0.0056 ppm	0.0051 ppm	0.0057 ppm	0.0051 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	27.4 %	0.9 %	11.5 %	1.7 %	3.1 %	11.7 %	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	0.0059 ppm	97.2589 %	99.4497 %	95.0720 %	98.9408 %	101.7906 %	100.2384 %
Concentration per Run 1	0.0061 ppm	95.9943 %	98.4366 %	94.4706 %	98.7253 %	100.2681 %	100.0553 %
Concentration per Run 2	0.0059 ppm	97.7022 %	101.1364 %	95.0974 %	99.1699 %	107.5578 %	100.6761 %
Concentration per Run 3	0.0058 ppm	98.0803 %	98.7760 %	95.6479 %	98.9273 %	97.5458 %	99.9839 %
Recovery Percentage 1	118.947 %						
Concentration RSD	1.9 %	1.1 %	1.5 %	0.6 %	0.2 %	5.1 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: LLOQ 0.005
Analysis started at: 12/19/2024 7:36:39 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	0.0053 ppm	0.0050 ppm	0.0055 ppm	0.0065 ppm	0.0050 ppm	0.0050 ppm	0.0074 ppm
Concentration per Run 1	0.0054 ppm	0.0039 ppm	0.0055 ppm	0.0061 ppm	0.0050 ppm	0.0050 ppm	0.0070 ppm
Concentration per Run 2	0.0054 ppm	0.0068 ppm	0.0054 ppm	0.0070 ppm	0.0049 ppm	0.0050 ppm	0.0070 ppm
Concentration per Run 3	0.0051 ppm	0.0044 ppm	0.0054 ppm	0.0066 ppm	0.0051 ppm	0.0051 ppm	0.0083 ppm
Recovery Percentage 1	106.383 %	0.000 %	109.112 %	0.000 %	0.000 %	99.974 %	0.000 %
Concentration RSD	3.6 %	30.9 %	1.6 %	6.6 %	1.4 %	1.0 %	10.5 %

	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	0.0053 ppm	0.0054 ppm	0.0053 ppm	0.0052 ppm	0.0060 ppm	0.0641 ppm	0.0055 ppm
Concentration per Run 1	0.0053 ppm	0.0052 ppm	0.0055 ppm	0.0052 ppm	0.0074 ppm	0.0625 ppm	0.0058 ppm
Concentration per Run 2	0.0053 ppm	0.0056 ppm	0.0053 ppm	0.0051 ppm	0.0058 ppm	0.0606 ppm	0.0054 ppm
Concentration per Run 3	0.0052 ppm	0.0054 ppm	0.0051 ppm	0.0053 ppm	0.0048 ppm	0.0692 ppm	0.0053 ppm
Recovery Percentage 1	105.427 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	0.9 %	2.9 %	3.5 %	1.6 %	21.3 %	7.0 %	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	0.0049 ppm	0.0050 ppm	0.0051 ppm	0.1061 ppm	0.0059 ppm	0.0049 ppm	0.0065 ppm
Concentration per Run 1	0.0047 ppm	0.0051 ppm	0.0052 ppm	0.1070 ppm	0.0057 ppm	0.0044 ppm	0.0064 ppm
Concentration per Run 2	0.0048 ppm	0.0050 ppm	0.0055 ppm	0.1055 ppm	0.0064 ppm	0.0052 ppm	0.0058 ppm
Concentration per Run 3	0.0051 ppm	0.0049 ppm	0.0047 ppm	0.1057 ppm	0.0057 ppm	0.0051 ppm	0.0073 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	4.9 %	1.9 %	7.7 %	0.8 %	6.8 %	9.9 %	11.8 %

	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	0.0045 ppm	0.0533 ppm	0.0054 ppm	0.0053 ppm	0.0051 ppm	0.0051 ppm	0.0052 ppm
Concentration per Run 1	0.0046 ppm	0.0532 ppm	0.0051 ppm	0.0053 ppm	0.0052 ppm	0.0044 ppm	0.0054 ppm
Concentration per Run 2	0.0043 ppm	0.0535 ppm	0.0054 ppm	0.0053 ppm	0.0051 ppm	0.0053 ppm	0.0050 ppm
Concentration per Run 3	0.0046 ppm	0.0531 ppm	0.0057 ppm	0.0053 ppm	0.0050 ppm	0.0057 ppm	0.0052 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	4.1 %	0.4 %	5.9 %	0.4 %	2.5 %	12.7 %	3.9 %

	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	0.0056 ppm	94.8429 %	99.4533 %	93.8151 %	98.4069 %	101.3681 %	100.0882 %
Concentration per Run 1	0.0060 ppm	93.5788 %	99.1175 %	92.3972 %	98.4637 %	101.1804 %	99.3183 %
Concentration per Run 2	0.0055 ppm	95.6526 %	99.6511 %	94.3692 %	98.7661 %	101.4749 %	100.9623 %
Concentration per Run 3	0.0053 ppm	95.2973 %	99.5913 %	94.6789 %	97.9910 %	101.4491 %	99.9840 %
Recovery Percentage 1	112.202 %						
Concentration RSD	6.9 %	1.2 %	0.3 %	1.3 %	0.4 %	0.2 %	0.8 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: LDR 500PPM NA
Analysis started at: 12/19/2024 7:41:04 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	0.0001 ppm	0.0028 ppm	0.0014 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0122 ppm
Concentration per Run 1	0.0000 ppm	0.0033 ppm	0.0015 ppm	0.0014 ppm	0.0000 ppm	0.0000 ppm	0.0122 ppm
Concentration per Run 2	0.0002 ppm	0.0021 ppm	0.0014 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0104 ppm
Concentration per Run 3	0.0001 ppm	0.0029 ppm	0.0012 ppm	0.0020 ppm	0.0000 ppm	0.0001 ppm	0.0138 ppm
Concentration RSD	62.1 %	23.6 %	10.6 %	19.1 %	303.1 %	163.6 %	13.9 %

	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	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0006 ppm	0.0018 ppm	0.1735 ppm	0.0018 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	0.0005 ppm	0.0006 ppm	0.0018 ppm	0.1736 ppm	0.0020 ppm
Concentration per Run 2	0.0001 ppm	0.0004 ppm	0.0004 ppm	0.0007 ppm	0.0013 ppm	0.1734 ppm	0.0018 ppm
Concentration per Run 3	-0.0002 ppm	-0.0002 ppm	0.0003 ppm	0.0005 ppm	0.0024 ppm	0.1735 ppm	0.0015 ppm
Concentration RSD	307.5 %	170.0 %	22.5 %	16.8 %	29.1 %	0.0 %	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	-0.0002 ppm	-0.0001 ppm	-0.0005 ppm	443.7758 [SIC 500]	0.0003 ppm	-0.0001 ppm	0.0011 ppm
Concentration per Run 1	-0.0001 ppm	-0.0001 ppm	-0.0003 ppm	444.4011 ppm	0.0006 ppm	-0.0003 ppm	0.0015 ppm
Concentration per Run 2	-0.0010 ppm	-0.0002 ppm	-0.0009 ppm	442.9198 ppm	-0.0003 ppm	-0.0002 ppm	0.0011 ppm
Concentration per Run 3	0.0005 ppm	0.0000 ppm	-0.0004 ppm	444.0066 ppm	0.0007 ppm	0.0003 ppm	0.0006 ppm
Concentration RSD	372.4 %	164.9 %	59.7 %	0.2 %	168.5 %	635.5 %	40.5 %

	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	-0.0015 ppm	-0.0021 ppm	-0.0010 ppm	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 1	-0.0005 ppm	-0.0013 ppm	-0.0018 ppm	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 2	-0.0008 ppm	-0.0038 ppm	-0.0003 ppm	0.0000 ppm	-0.0002 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 3	-0.0033 ppm	-0.0013 ppm	-0.0009 ppm	0.0001 ppm	-0.0002 ppm	0.0005 ppm	-0.0001 ppm
Concentration RSD	101.1 %	68.5 %	76.5 %	54.7 %	39.9 %	331.2 %	441.6 %

	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	0.0006 ppm	83.0014 %	93.9513 %	73.9857 %	85.1630 %	94.9068 %	88.6866 %
Concentration per Run 1	0.0006 ppm	82.4207 %	93.7284 %	73.1984 %	85.6296 %	94.9689 %	88.7794 %
Concentration per Run 2	0.0006 ppm	82.8337 %	93.6861 %	74.3329 %	84.8420 %	94.4657 %	88.7319 %
Concentration per Run 3	0.0005 ppm	83.7498 %	94.4395 %	74.4258 %	85.0175 %	95.2859 %	88.5484 %
Concentration RSD	9.4 %	0.8 %	0.5 %	0.9 %	0.5 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: CCV
Analysis started at: 12/19/2024 7:51:41 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	0.4976 ppm	0.4808 ppm	0.4788 ppm	0.4985 ppm	0.4881 ppm	0.5148 ppm	0.5062 ppm
Concentration per Run 1	0.5030 ppm	0.4872 ppm	0.4786 ppm	0.5014 ppm	0.4904 ppm	0.5179 ppm	0.5093 ppm
Concentration per Run 2	0.4967 ppm	0.4771 ppm	0.4786 ppm	0.4950 ppm	0.4923 ppm	0.5158 ppm	0.5081 ppm
Concentration per Run 3	0.4931 ppm	0.4782 ppm	0.4793 ppm	0.4990 ppm	0.4815 ppm	0.5105 ppm	0.5013 ppm
Recovery Percentage 1	99.520 %	96.164 %	95.770 %	99.693 %	97.613 %	102.952 %	101.245 %
Concentration RSD	1.0 %	1.2 %	0.1 %	0.6 %	1.2 %	0.7 %	0.9 %

	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	0.5091 ppm	0.5238 ppm	0.5019 ppm	0.4931 ppm	0.5176 ppm	5.1846 ppm	0.4930 ppm
Concentration per Run 1	0.5159 ppm	0.5317 ppm	0.5068 ppm	0.4991 ppm	0.5211 ppm	5.2119 ppm	0.4972 ppm
Concentration per Run 2	0.5066 ppm	0.5198 ppm	0.4995 ppm	0.4904 ppm	0.5194 ppm	5.2051 ppm	0.4925 ppm
Concentration per Run 3	0.5046 ppm	0.5200 ppm	0.4994 ppm	0.4897 ppm	0.5123 ppm	5.1367 ppm	0.4893 ppm
Recovery Percentage 1	101.812 %	104.764 %	100.387 %	98.618 %	103.525 %	103.691 %	98.606 %
Concentration RSD	1.2 %	1.3 %	0.8 %	1.1 %	0.9 %	0.8 %	0.8 %

	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	0.5104 ppm	0.5014 ppm	0.5095 ppm	10.1281 ppm	0.5194 ppm	0.4875 ppm	0.5086 ppm
Concentration per Run 1	0.5158 ppm	0.5043 ppm	0.5114 ppm	10.2256 ppm	0.5253 ppm	0.4892 ppm	0.5131 ppm
Concentration per Run 2	0.5100 ppm	0.5016 ppm	0.5061 ppm	10.1692 ppm	0.5167 ppm	0.4852 ppm	0.5066 ppm
Concentration per Run 3	0.5055 ppm	0.4983 ppm	0.5109 ppm	9.9897 ppm	0.5162 ppm	0.4881 ppm	0.5060 ppm
Recovery Percentage 1	102.088 %	100.286 %	101.892 %	101.281 %	103.880 %	97.497 %	101.712 %
Concentration RSD	1.0 %	0.6 %	0.6 %	1.2 %	1.0 %	0.4 %	0.8 %

	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	0.4806 ppm	5.5807 ppm	0.5373 ppm	0.5169 ppm	0.5063 ppm	0.4911 ppm	0.5015 ppm
Concentration per Run 1	0.4798 ppm	5.6346 ppm	0.5439 ppm	0.5196 ppm	0.5123 ppm	0.4915 ppm	0.5076 ppm
Concentration per Run 2	0.4791 ppm	5.5580 ppm	0.5297 ppm	0.5212 ppm	0.5033 ppm	0.4913 ppm	0.4987 ppm
Concentration per Run 3	0.4831 ppm	5.5494 ppm	0.5382 ppm	0.5098 ppm	0.5034 ppm	0.4906 ppm	0.4982 ppm
Recovery Percentage 1	96.130 %	106.299 %	107.460 %	103.375 %	101.265 %	98.221 %	100.305 %
Concentration RSD	0.4 %	0.8 %	1.3 %	1.2 %	1.0 %	0.1 %	1.1 %

	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	0.5152 ppm	99.2171 %	100.5886 %	93.8453 %	96.2517 %	100.0342 %	98.3646 %
Concentration per Run 1	0.5212 ppm	97.9066 %	100.2695 %	93.3587 %	95.9885 %	99.6736 %	98.0906 %
Concentration per Run 2	0.5104 ppm	99.6298 %	100.2257 %	94.0904 %	96.4958 %	99.9327 %	98.6800 %
Concentration per Run 3	0.5141 ppm	100.1150 %	101.2704 %	94.0868 %	96.2707 %	100.4963 %	98.3233 %
Recovery Percentage 1	103.049 %						
Concentration RSD	1.1 %	1.2 %	0.6 %	0.4 %	0.3 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: CCB
Analysis started at: 12/19/2024 7:56:12 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	0.0015 ppm	0.0016 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 1	0.0001 ppm	0.0016 ppm	0.0027 ppm	0.0012 ppm	0.0000 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0016 ppm	0.0018 ppm	0.0006 ppm	0.0001 ppm	0.0001 ppm	0.0018 ppm
Concentration per Run 3	0.0002 ppm	0.0013 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Recovery Percentage 1	2.030 %	1.535 %	32.381 %	1.888 %	0.319 %	1.074 %	0.693 %
Concentration RSD	109.4 %	11.1 %	69.7 %	107.8 %	120.1 %	26.3 %	134.7 %

	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	0.0003 ppm	0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0105 ppm	0.0005 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0001 ppm	0.0009 ppm	0.0003 ppm
Concentration per Run 2	-0.0001 ppm	0.0005 ppm	0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0190 ppm	0.0007 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0117 ppm	0.0005 ppm
Recovery Percentage 1	0.805 %	2.550 %	1.102 %	1.789 %	0.453 %	0.422 %	4.795 %
Concentration RSD	315.5 %	107.9 %	108.3 %	160.6 %	122.8 %	86.2 %	40.4 %

	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	-0.0009 ppm	0.0000 ppm	0.0020 ppm	0.0163 ppm	0.0008 ppm	-0.0004 ppm	0.0015 ppm
Concentration per Run 1	-0.0009 ppm	0.0001 ppm	0.0021 ppm	0.0171 ppm	0.0007 ppm	-0.0005 ppm	0.0010 ppm
Concentration per Run 2	-0.0006 ppm	0.0000 ppm	0.0020 ppm	0.0164 ppm	0.0010 ppm	-0.0006 ppm	0.0032 ppm
Concentration per Run 3	-0.0012 ppm	0.0000 ppm	0.0020 ppm	0.0154 ppm	0.0006 ppm	-0.0002 ppm	0.0004 ppm
Recovery Percentage 1	-0.879 %	0.361 %	4.069 %	0.815 %	3.018 %	-4.409 %	3.095 %
Concentration RSD	31.5 %	119.5 %	3.6 %	5.2 %	27.1 %	50.2 %	96.7 %

	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	-0.0003 ppm	-0.0029 ppm	-0.0003 ppm	0.0000 ppm	-0.0001 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 1	0.0006 ppm	-0.0023 ppm	-0.0004 ppm	0.0001 ppm	-0.0002 ppm	-0.0011 ppm	0.0001 ppm
Concentration per Run 2	0.0008 ppm	-0.0039 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0002 ppm
Concentration per Run 3	-0.0023 ppm	-0.0024 ppm	-0.0005 ppm	0.0000 ppm	-0.0001 ppm	-0.0010 ppm	-0.0001 ppm
Recovery Percentage 1	-2.864 %	-0.578 %	-0.693 %	0.421 %	-0.911 %	-3.770 %	0.711 %
Concentration RSD	598.1 %	31.3 %	39.4 %	70.2 %	97.0 %	68.1 %	168.3 %

	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	0.0002 ppm	94.6728 %	99.2027 %	93.4274 %	99.0142 %	101.4966 %	100.1283 %
Concentration per Run 1	0.0002 ppm	93.4966 %	99.1915 %	92.5764 %	99.0442 %	101.8240 %	100.0924 %
Concentration per Run 2	0.0002 ppm	94.6984 %	99.3570 %	94.1029 %	98.7893 %	101.9866 %	100.7260 %
Concentration per Run 3	0.0002 ppm	95.8234 %	99.0596 %	93.6030 %	99.2091 %	100.6792 %	99.5665 %
Recovery Percentage 1	3.814 %						
Concentration RSD	4.0 %	1.2 %	0.2 %	0.8 %	0.2 %	0.7 %	0.6 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: LDR 250PPM NA
Analysis started at: 12/19/2024 8:02:06 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	0.0001 ppm	0.0288 ppm	0.0006 ppm	0.0011 ppm	0.0004 ppm	0.0000 ppm	0.1337 ppm
Concentration per Run 1	-0.0001 ppm	0.0291 ppm	0.0007 ppm	0.0008 ppm	0.0004 ppm	0.0000 ppm	0.1333 ppm
Concentration per Run 2	0.0001 ppm	0.0266 ppm	0.0009 ppm	0.0011 ppm	0.0005 ppm	0.0000 ppm	0.1338 ppm
Concentration per Run 3	0.0003 ppm	0.0305 ppm	0.0001 ppm	0.0014 ppm	0.0004 ppm	0.0000 ppm	0.1339 ppm
Concentration RSD	200.5 %	6.8 %	68.2 %	27.8 %	5.5 %	43.5 %	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	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0005 ppm	0.0842 ppm	0.0992 ppm	0.0017 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0007 ppm	0.0833 ppm	0.0975 ppm	0.0020 ppm
Concentration per Run 2	-0.0001 ppm	0.0005 ppm	-0.0001 ppm	0.0004 ppm	0.0832 ppm	0.1014 ppm	0.0019 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0862 ppm	0.0988 ppm	0.0011 ppm
Concentration RSD	3,010.0 %	110.7 %	230.6 %	32.8 %	2.0 %	2.0 %	29.9 %

	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	0.0205 ppm	0.0015 ppm	-0.0001 ppm	243.1673 ppm	0.0013 ppm	0.0002 ppm	0.0015 ppm
Concentration per Run 1	0.0199 ppm	0.0015 ppm	-0.0001 ppm	241.5497 ppm	0.0015 ppm	0.0009 ppm	-0.0004 ppm
Concentration per Run 2	0.0209 ppm	0.0016 ppm	0.0001 ppm	244.6651 ppm	0.0014 ppm	-0.0005 ppm	0.0020 ppm
Concentration per Run 3	0.0206 ppm	0.0014 ppm	-0.0003 ppm	243.2873 ppm	0.0009 ppm	0.0001 ppm	0.0030 ppm
Concentration RSD	2.3 %	6.1 %	285.0 %	0.6 %	28.4 %	374.8 %	114.7 %

	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	-0.0014 ppm	-0.0002 ppm	-0.0001 ppm	0.0003 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 1	-0.0017 ppm	0.0010 ppm	-0.0004 ppm	0.0003 ppm	0.0010 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 2	-0.0027 ppm	-0.0012 ppm	0.0000 ppm	0.0003 ppm	0.0009 ppm	0.0006 ppm	0.0001 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	0.0002 ppm	0.0004 ppm	0.0009 ppm	-0.0002 ppm	-0.0001 ppm
Concentration RSD	97.4 %	661.5 %	331.8 %	17.7 %	5.3 %	304.2 %	254.9 %

	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	0.0013 ppm	88.0683 %	96.1370 %	79.8497 %	88.8201 %	96.0269 %	91.6600 %
Concentration per Run 1	0.0013 ppm	87.2801 %	96.1392 %	79.2030 %	88.8532 %	95.8244 %	91.6100 %
Concentration per Run 2	0.0014 ppm	88.5909 %	95.8321 %	80.0259 %	89.6992 %	95.8077 %	91.9877 %
Concentration per Run 3	0.0011 ppm	88.3338 %	96.4397 %	80.3203 %	87.9080 %	96.4485 %	91.3824 %
Concentration RSD	11.7 %	0.8 %	0.3 %	0.7 %	1.0 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: LDR 300PPM FE
Analysis started at: 12/19/2024 8:07:36 AM
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	0.0014 ppm	0.0265 ppm	0.0040 ppm	0.0021 ppm	0.0003 ppm	0.0000 ppm	0.0141 ppm
Concentration per Run 1	0.0012 ppm	0.0299 ppm	0.0028 ppm	0.0017 ppm	0.0003 ppm	0.0000 ppm	0.0119 ppm
Concentration per Run 2	0.0014 ppm	0.0236 ppm	0.0036 ppm	0.0019 ppm	0.0002 ppm	0.0000 ppm	0.0145 ppm
Concentration per Run 3	0.0017 ppm	0.0260 ppm	0.0058 ppm	0.0027 ppm	0.0003 ppm	0.0000 ppm	0.0158 ppm
Concentration RSD	14.8 %	12.0 %	38.2 %	23.9 %	19.7 %	303.2 %	14.0 %

	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	0.0002 ppm	-0.0011 ppm	-0.0009 ppm	0.0012 ppm	278.9091 ppm	-0.0113 ppm	0.0005 ppm
Concentration per Run 1	0.0003 ppm	-0.0010 ppm	-0.0010 ppm	0.0016 ppm	279.9172 ppm	-0.0148 ppm	0.0008 ppm
Concentration per Run 2	0.0000 ppm	-0.0016 ppm	-0.0009 ppm	0.0007 ppm	277.3577 ppm	-0.0085 ppm	0.0004 ppm
Concentration per Run 3	0.0002 ppm	-0.0007 ppm	-0.0008 ppm	0.0014 ppm	279.4524 ppm	-0.0104 ppm	0.0004 ppm
Concentration RSD	67.7 %	42.5 %	13.2 %	35.3 %	0.5 %	28.8 %	49.0 %

	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	0.0301 ppm	0.0004 ppm	-0.0021 ppm	0.0385 ppm	-0.0012 ppm	-0.0025 ppm	0.0035 ppm
Concentration per Run 1	0.0320 ppm	0.0003 ppm	-0.0016 ppm	0.0389 ppm	-0.0009 ppm	-0.0028 ppm	0.0025 ppm
Concentration per Run 2	0.0286 ppm	0.0004 ppm	-0.0023 ppm	0.0398 ppm	-0.0016 ppm	-0.0025 ppm	0.0046 ppm
Concentration per Run 3	0.0299 ppm	0.0004 ppm	-0.0025 ppm	0.0368 ppm	-0.0010 ppm	-0.0022 ppm	0.0034 ppm
Concentration RSD	5.7 %	16.3 %	21.2 %	4.0 %	32.0 %	10.9 %	29.8 %

	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	-0.0023 ppm	-0.0005 ppm	0.0012 ppm	0.0002 ppm	-0.0002 ppm	0.0000 ppm	-0.0005 ppm
Concentration per Run 1	-0.0010 ppm	0.0041 ppm	0.0005 ppm	0.0002 ppm	-0.0002 ppm	-0.0005 ppm	-0.0006 ppm
Concentration per Run 2	-0.0026 ppm	-0.0030 ppm	0.0012 ppm	0.0002 ppm	-0.0001 ppm	0.0001 ppm	-0.0005 ppm
Concentration per Run 3	-0.0031 ppm	-0.0026 ppm	0.0019 ppm	0.0002 ppm	-0.0003 ppm	0.0002 ppm	-0.0003 ppm
Concentration RSD	49.0 %	800.8 %	55.8 %	8.5 %	47.9 %	764.8 %	35.3 %

	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	0.0004 ppm	99.1037 %	99.9414 %	87.0610 %	94.7457 %	98.8838 %	95.5416 %
Concentration per Run 1	0.0000 ppm	98.2353 %	99.7443 %	86.9593 %	94.4691 %	99.0039 %	95.4999 %
Concentration per Run 2	0.0006 ppm	99.4683 %	100.0889 %	87.1878 %	94.5561 %	99.2386 %	95.6213 %
Concentration per Run 3	0.0007 ppm	99.6075 %	99.9912 %	87.0359 %	95.2119 %	98.4088 %	95.5035 %
Concentration RSD	93.6 %	0.8 %	0.2 %	0.1 %	0.4 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: CCV
Analysis started at: 12/19/2024 8:13:07 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	0.4967 ppm	0.4764 ppm	0.4784 ppm	0.4998 ppm	0.4836 ppm	0.5087 ppm	0.5025 ppm
Concentration per Run 1	0.5016 ppm	0.4759 ppm	0.4794 ppm	0.5026 ppm	0.4841 ppm	0.5094 ppm	0.5047 ppm
Concentration per Run 2	0.4971 ppm	0.4762 ppm	0.4823 ppm	0.4987 ppm	0.4827 ppm	0.5076 ppm	0.5035 ppm
Concentration per Run 3	0.4915 ppm	0.4769 ppm	0.4736 ppm	0.4980 ppm	0.4840 ppm	0.5092 ppm	0.4994 ppm
Recovery Percentage 1	99.348 %	95.273 %	95.686 %	99.957 %	96.723 %	101.745 %	100.509 %
Concentration RSD	1.0 %	0.1 %	0.9 %	0.5 %	0.2 %	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	0.5081 ppm	0.5208 ppm	0.5013 ppm	0.4943 ppm	0.5225 ppm	5.1149 ppm	0.4873 ppm
Concentration per Run 1	0.5137 ppm	0.5266 ppm	0.5068 ppm	0.4986 ppm	0.5247 ppm	5.1257 ppm	0.4886 ppm
Concentration per Run 2	0.5117 ppm	0.5230 ppm	0.5024 ppm	0.4948 ppm	0.5203 ppm	5.1254 ppm	0.4886 ppm
Concentration per Run 3	0.4989 ppm	0.5128 ppm	0.4948 ppm	0.4895 ppm	0.5224 ppm	5.0934 ppm	0.4847 ppm
Recovery Percentage 1	101.617 %	104.155 %	100.266 %	98.856 %	104.498 %	102.297 %	97.462 %
Concentration RSD	1.6 %	1.4 %	1.2 %	0.9 %	0.4 %	0.4 %	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	0.5115 ppm	0.4955 ppm	0.5053 ppm	9.9613 ppm	0.5178 ppm	0.4864 ppm	0.5077 ppm
Concentration per Run 1	0.5174 ppm	0.4963 ppm	0.5061 ppm	10.1051 ppm	0.5229 ppm	0.4873 ppm	0.5087 ppm
Concentration per Run 2	0.5103 ppm	0.4943 ppm	0.5080 ppm	9.8978 ppm	0.5207 ppm	0.4883 ppm	0.5110 ppm
Concentration per Run 3	0.5067 ppm	0.4960 ppm	0.5019 ppm	9.8810 ppm	0.5099 ppm	0.4836 ppm	0.5034 ppm
Recovery Percentage 1	102.293 %	99.109 %	101.069 %	99.613 %	103.568 %	97.279 %	101.534 %
Concentration RSD	1.1 %	0.2 %	0.6 %	1.3 %	1.3 %	0.5 %	0.8 %

	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	0.4801 ppm	5.5824 ppm	0.5370 ppm	0.5126 ppm	0.5053 ppm	0.4869 ppm	0.5012 ppm
Concentration per Run 1	0.4794 ppm	5.6287 ppm	0.5442 ppm	0.5158 ppm	0.5096 ppm	0.4879 ppm	0.5061 ppm
Concentration per Run 2	0.4840 ppm	5.5881 ppm	0.5394 ppm	0.5095 ppm	0.5072 ppm	0.4897 ppm	0.5030 ppm
Concentration per Run 3	0.4768 ppm	5.5304 ppm	0.5275 ppm	0.5126 ppm	0.4992 ppm	0.4831 ppm	0.4945 ppm
Recovery Percentage 1	96.014 %	106.331 %	107.409 %	102.525 %	101.068 %	97.384 %	100.242 %
Concentration RSD	0.8 %	0.9 %	1.6 %	0.6 %	1.1 %	0.7 %	1.2 %

	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	0.5136 ppm	99.5375 %	101.4422 %	94.0845 %	97.2193 %	100.6854 %	98.5534 %
Concentration per Run 1	0.5212 ppm	98.4328 %	101.3585 %	93.5716 %	96.8955 %	101.1123 %	98.6175 %
Concentration per Run 2	0.5163 ppm	99.3145 %	101.8037 %	94.0100 %	97.0218 %	100.5318 %	98.2270 %
Concentration per Run 3	0.5033 ppm	100.8651 %	101.1644 %	94.6720 %	97.7404 %	100.4122 %	98.8155 %
Recovery Percentage 1	102.726 %						
Concentration RSD	1.8 %	1.2 %	0.3 %	0.6 %	0.5 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: CCB
Analysis started at: 12/19/2024 8:17:34 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	0.0023 ppm	0.0019 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0017 ppm
Concentration per Run 1	0.0004 ppm	0.0032 ppm	0.0017 ppm	0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0011 ppm	0.0027 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0016 ppm
Concentration per Run 3	0.0006 ppm	0.0025 ppm	0.0014 ppm	0.0010 ppm	0.0001 ppm	0.0000 ppm	0.0032 ppm
Recovery Percentage 1	6.954 %	2.272 %	38.492 %	2.885 %	0.689 %	0.462 %	1.675 %
Concentration RSD	78.8 %	47.8 %	36.9 %	59.3 %	12.7 %	27.6 %	85.6 %

	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	0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0113 ppm	0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0099 ppm	0.0001 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0147 ppm	0.0002 ppm
Concentration per Run 3	0.0001 ppm	0.0004 ppm	-0.0003 ppm	0.0000 ppm	0.0002 ppm	0.0094 ppm	0.0001 ppm
Recovery Percentage 1	2.549 %	2.671 %	-0.966 %	0.834 %	0.870 %	0.453 %	1.132 %
Concentration RSD	29.6 %	38.2 %	163.4 %	67.4 %	48.4 %	26.0 %	75.0 %

	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	-0.0011 ppm	0.0001 ppm	0.0022 ppm	0.0113 ppm	0.0001 ppm	-0.0007 ppm	0.0033 ppm
Concentration per Run 1	-0.0010 ppm	0.0000 ppm	0.0023 ppm	0.0112 ppm	0.0004 ppm	-0.0013 ppm	0.0033 ppm
Concentration per Run 2	-0.0010 ppm	0.0001 ppm	0.0022 ppm	0.0119 ppm	0.0000 ppm	-0.0006 ppm	0.0031 ppm
Concentration per Run 3	-0.0013 ppm	0.0000 ppm	0.0020 ppm	0.0110 ppm	-0.0002 ppm	-0.0001 ppm	0.0033 ppm
Recovery Percentage 1	-1.093 %	0.544 %	4.320 %	0.567 %	0.299 %	-6.666 %	6.503 %
Concentration RSD	14.6 %	122.6 %	7.3 %	4.2 %	390.8 %	93.7 %	3.7 %

	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	-0.0013 ppm	-0.0041 ppm	-0.0004 ppm	0.0000 ppm	-0.0002 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 1	-0.0012 ppm	-0.0036 ppm	0.0003 ppm	0.0000 ppm	-0.0002 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 2	-0.0012 ppm	-0.0040 ppm	-0.0002 ppm	0.0000 ppm	-0.0002 ppm	0.0007 ppm	0.0000 ppm
Concentration per Run 3	-0.0015 ppm	-0.0048 ppm	-0.0011 ppm	0.0000 ppm	-0.0001 ppm	0.0007 ppm	-0.0001 ppm
Recovery Percentage 1	-12.787 %	-0.827 %	-0.729 %	0.218 %	-1.560 %	1.393 %	-0.576 %
Concentration RSD	12.7 %	14.0 %	194.0 %	61.6 %	37.0 %	236.7 %	105.9 %

	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	0.0002 ppm	93.9031 %	98.3332 %	93.2782 %	98.4228 %	101.0982 %	100.0290 %
Concentration per Run 1	0.0002 ppm	91.8871 %	98.3100 %	92.4101 %	97.7144 %	101.6247 %	99.7780 %
Concentration per Run 2	0.0001 ppm	94.2515 %	98.4851 %	94.0668 %	98.5428 %	101.1778 %	100.5223 %
Concentration per Run 3	0.0002 ppm	95.5706 %	98.2046 %	93.3578 %	99.0111 %	100.4921 %	99.7867 %
Recovery Percentage 1	3.450 %						
Concentration RSD	25.6 %	2.0 %	0.1 %	0.9 %	0.7 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2010791-1 WG2010791
Analysis started at: 12/19/2024 8:27:40 AM
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	0.0001 ppm	0.0191 ppm	0.0011 ppm	0.0008 ppm	0.0003 ppm	0.0000 ppm	0.0375 ppm
Concentration per Run 1	-0.0001 ppm	0.0191 ppm	0.0011 ppm	0.0002 ppm	0.0003 ppm	0.0000 ppm	0.0401 ppm
Concentration per Run 2	0.0001 ppm	0.0183 ppm	0.0020 ppm	0.0020 ppm	0.0003 ppm	0.0000 ppm	0.0325 ppm
Concentration per Run 3	0.0003 ppm	0.0200 ppm	0.0003 ppm	0.0002 ppm	0.0003 ppm	0.0000 ppm	0.0400 ppm
Recovery Percentage 1	2.149 %	19.140 %	22.060 %	2.599 %	2.889 %	0.206 %	37.506 %
Concentration RSD	202.4 %	4.2 %	76.1 %	130.8 %	6.6 %	231.4 %	11.6 %

	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	-0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0403 ppm	0.0080 ppm	0.0003 ppm
Concentration per Run 1	-0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0409 ppm	-0.0016 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0003 ppm	0.0353 ppm	0.0088 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0448 ppm	0.0168 ppm	0.0001 ppm
Recovery Percentage 1	-1.646 %	1.087 %	1.972 %	2.476 %	80.671 %	0.320 %	2.824 %
Concentration RSD	79.8 %	137.0 %	45.3 %	24.5 %	11.8 %	115.2 %	85.2 %

	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	0.0103 ppm	0.0007 ppm	-0.0002 ppm	0.0190 ppm	0.0001 ppm	-0.0007 ppm	0.0015 ppm
Concentration per Run 1	0.0105 ppm	0.0007 ppm	0.0001 ppm	0.0205 ppm	-0.0002 ppm	-0.0005 ppm	-0.0008 ppm
Concentration per Run 2	0.0111 ppm	0.0006 ppm	-0.0002 ppm	0.0161 ppm	0.0005 ppm	-0.0010 ppm	0.0030 ppm
Concentration per Run 3	0.0093 ppm	0.0006 ppm	-0.0006 ppm	0.0204 ppm	-0.0001 ppm	-0.0004 ppm	0.0024 ppm
Recovery Percentage 1	10.282 %	6.679 %	-0.418 %	0.949 %	0.228 %	-6.531 %	3.067 %
Concentration RSD	8.5 %	7.8 %	168.8 %	13.3 %	706.1 %	51.2 %	133.2 %

	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	0.0207 ppm	0.0002 ppm	0.0001 ppm	0.0008 ppm	-0.0011 ppm	0.0000 ppm
Concentration per Run 1	-0.0006 ppm	0.0196 ppm	-0.0001 ppm	0.0001 ppm	0.0010 ppm	-0.0013 ppm	0.0001 ppm
Concentration per Run 2	-0.0012 ppm	0.0225 ppm	0.0004 ppm	0.0001 ppm	0.0008 ppm	-0.0017 ppm	0.0000 ppm
Concentration per Run 3	-0.0003 ppm	0.0200 ppm	0.0002 ppm	0.0001 ppm	0.0006 ppm	-0.0002 ppm	0.0001 ppm
Recovery Percentage 1	-7.340 %	4.137 %	0.328 %	1.043 %	7.887 %	-5.389 %	0.356 %
Concentration RSD	60.1 %	7.5 %	166.4 %	20.2 %	23.3 %	71.1 %	183.6 %

	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	100.1398 %	105.9995 %	96.6780 %	99.1733 %	102.3432 %	100.3739 %
Concentration per Run 1	0.0014 ppm	99.2273 %	101.9400 %	96.1972 %	98.8010 %	101.5996 %	100.5235 %
Concentration per Run 2	0.0014 ppm	99.8304 %	118.1952 %	96.4980 %	98.5518 %	107.3247 %	100.1769 %
Concentration per Run 3	0.0016 ppm	101.3616 %	97.8634 %	97.3387 %	100.1670 %	98.1053 %	100.4212 %
Recovery Percentage 1	29.808 %						
Concentration RSD	5.1 %	1.1 %	10.1 %	0.6 %	0.9 %	4.5 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2010791-2D2 WG2010791
Analysis started at: 12/19/2024 8:32:13 AM
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	0.3493 ppm	20.7945 ppm	1.1935 ppm	0.9898 ppm	1.2007 ppm	0.6907 ppm	20.7688 ppm
Concentration per Run 1	0.3533 ppm	20.8780 ppm	1.1946 ppm	1.0037 ppm	1.2037 ppm	0.6895 ppm	20.6917 ppm
Concentration per Run 2	0.3489 ppm	20.6527 ppm	1.1942 ppm	0.9859 ppm	1.1990 ppm	0.6914 ppm	20.7855 ppm
Concentration per Run 3	0.3458 ppm	20.8528 ppm	1.1918 ppm	0.9797 ppm	1.1994 ppm	0.6914 ppm	20.8292 ppm
Concentration RSD	1.1 %	0.6 %	0.1 %	1.3 %	0.2 %	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	0.8718 ppm	0.3522 ppm	0.7613 ppm	0.8588 ppm	25.1918 ppm	4.9969 ppm	0.5317 ppm
Concentration per Run 1	0.8827 ppm	0.3573 ppm	0.7692 ppm	0.8717 ppm	25.1000 ppm	5.0604 ppm	0.5349 ppm
Concentration per Run 2	0.8726 ppm	0.3519 ppm	0.7653 ppm	0.8518 ppm	25.2664 ppm	4.9863 ppm	0.5282 ppm
Concentration per Run 3	0.8603 ppm	0.3476 ppm	0.7495 ppm	0.8528 ppm	25.2091 ppm	4.9440 ppm	0.5319 ppm
Concentration RSD	1.3 %	1.4 %	1.4 %	1.3 %	0.3 %	1.2 %	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	6.5093 ppm	2.2409 ppm	0.5967 ppm	7.3211 ppm	1.3386 ppm	0.3981 ppm	0.8736 ppm
Concentration per Run 1	6.5910 ppm	2.2324 ppm	0.5971 ppm	7.3760 ppm	1.3495 ppm	0.4010 ppm	0.8835 ppm
Concentration per Run 2	6.5217 ppm	2.2426 ppm	0.5970 ppm	7.2555 ppm	1.3474 ppm	0.3983 ppm	0.8722 ppm
Concentration per Run 3	6.4153 ppm	2.2478 ppm	0.5961 ppm	7.3318 ppm	1.3189 ppm	0.3951 ppm	0.8651 ppm
Concentration RSD	1.4 %	0.3 %	0.1 %	0.8 %	1.3 %	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	0.6203 ppm	11.7303 ppm	0.3334 ppm	0.5543 ppm	1.3556 ppm	0.8307 ppm	0.4355 ppm
Concentration per Run 1	0.6227 ppm	11.9691 ppm	0.3359 ppm	0.5551 ppm	1.3633 ppm	0.8372 ppm	0.4411 ppm
Concentration per Run 2	0.6214 ppm	11.7972 ppm	0.3367 ppm	0.5533 ppm	1.3643 ppm	0.8304 ppm	0.4362 ppm
Concentration per Run 3	0.6169 ppm	11.4245 ppm	0.3275 ppm	0.5544 ppm	1.3391 ppm	0.8243 ppm	0.4291 ppm
Concentration RSD	0.5 %	2.4 %	1.5 %	0.2 %	1.1 %	0.8 %	1.4 %

	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	0.7025 ppm	98.1577 %	101.5630 %	88.1904 %	102.0651 %	107.3549 %	103.9863 %
Concentration per Run 1	0.7089 ppm	97.1439 %	102.3514 %	87.7023 %	102.0973 %	108.0673 %	103.9435 %
Concentration per Run 2	0.7078 ppm	98.2087 %	101.1430 %	88.2686 %	101.9231 %	106.4155 %	103.8380 %
Concentration per Run 3	0.6908 ppm	99.1205 %	101.1948 %	88.6001 %	102.1748 %	107.5819 %	104.1776 %
Concentration RSD	1.4 %	1.0 %	0.7 %	0.5 %	0.1 %	0.8 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2010791-3D2 WG2010791
Analysis started at: 12/19/2024 8:36:40 AM
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	0.3465 ppm	20.1040 ppm	1.1681 ppm	0.9860 ppm	1.2344 ppm	0.6828 ppm	20.3872 ppm
Concentration per Run 1	0.3503 ppm	20.2053 ppm	1.1747 ppm	1.0011 ppm	1.2409 ppm	0.6862 ppm	20.5286 ppm
Concentration per Run 2	0.3476 ppm	19.9567 ppm	1.1658 ppm	0.9867 ppm	1.2284 ppm	0.6828 ppm	20.3538 ppm
Concentration per Run 3	0.3415 ppm	20.1498 ppm	1.1637 ppm	0.9703 ppm	1.2337 ppm	0.6795 ppm	20.2793 ppm
Concentration RSD	1.3 %	0.6 %	0.5 %	1.6 %	0.5 %	0.5 %	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	0.8910 ppm	0.3531 ppm	0.7684 ppm	0.8589 ppm	24.7085 ppm	4.9208 ppm	0.5261 ppm
Concentration per Run 1	0.9047 ppm	0.3582 ppm	0.7794 ppm	0.8686 ppm	24.8944 ppm	4.9424 ppm	0.5296 ppm
Concentration per Run 2	0.8922 ppm	0.3552 ppm	0.7711 ppm	0.8608 ppm	24.6964 ppm	4.8605 ppm	0.5193 ppm
Concentration per Run 3	0.8759 ppm	0.3459 ppm	0.7547 ppm	0.8472 ppm	24.5347 ppm	4.9596 ppm	0.5295 ppm
Concentration RSD	1.6 %	1.8 %	1.6 %	1.3 %	0.7 %	1.1 %	1.1 %

	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	6.4499 ppm	2.1310 ppm	0.5990 ppm	7.2151 ppm	1.3463 ppm	0.3917 ppm	0.8979 ppm
Concentration per Run 1	6.5421 ppm	2.1468 ppm	0.6021 ppm	7.2486 ppm	1.3617 ppm	0.3942 ppm	0.9114 ppm
Concentration per Run 2	6.4679 ppm	2.1286 ppm	0.6000 ppm	7.1142 ppm	1.3525 ppm	0.3925 ppm	0.8992 ppm
Concentration per Run 3	6.3397 ppm	2.1176 ppm	0.5948 ppm	7.2823 ppm	1.3248 ppm	0.3885 ppm	0.8830 ppm
Concentration RSD	1.6 %	0.7 %	0.6 %	1.2 %	1.4 %	0.7 %	1.6 %

	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	0.6096 ppm	11.4358 ppm	0.3309 ppm	0.5614 ppm	1.3222 ppm	0.8504 ppm	0.4373 ppm
Concentration per Run 1	0.6142 ppm	11.4749 ppm	0.3352 ppm	0.5634 ppm	1.3422 ppm	0.8574 ppm	0.4435 ppm
Concentration per Run 2	0.6065 ppm	11.6230 ppm	0.3338 ppm	0.5603 ppm	1.3246 ppm	0.8469 ppm	0.4381 ppm
Concentration per Run 3	0.6082 ppm	11.2095 ppm	0.3237 ppm	0.5606 ppm	1.2999 ppm	0.8469 ppm	0.4302 ppm
Concentration RSD	0.7 %	1.8 %	1.9 %	0.3 %	1.6 %	0.7 %	1.5 %

	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	0.7043 ppm	98.0630 %	101.4601 %	87.7826 %	102.5471 %	107.4998 %	103.6872 %
Concentration per Run 1	0.7165 ppm	96.9477 %	101.0876 %	87.3948 %	102.6021 %	107.0444 %	103.6610 %
Concentration per Run 2	0.7051 ppm	97.9279 %	101.5293 %	87.6955 %	102.4013 %	107.6398 %	103.5806 %
Concentration per Run 3	0.6913 ppm	99.3134 %	101.7634 %	88.2574 %	102.6381 %	107.8152 %	103.8200 %
Concentration RSD	1.8 %	1.2 %	0.3 %	0.5 %	0.1 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2472921-01D2 WG2010791
Analysis started at: 12/19/2024 8:41:03 AM
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	0.0020 ppm	57.2867 ppm	0.0261 ppm	0.0055 ppm	0.2025 ppm	0.0032 ppm	34.9350 ppm
Concentration per Run 1	0.0019 ppm	57.6100 ppm	0.0244 ppm	0.0050 ppm	0.2042 ppm	0.0033 ppm	35.1333 ppm
Concentration per Run 2	0.0022 ppm	57.4161 ppm	0.0277 ppm	0.0062 ppm	0.2023 ppm	0.0032 ppm	34.9412 ppm
Concentration per Run 3	0.0020 ppm	56.8341 ppm	0.0261 ppm	0.0054 ppm	0.2010 ppm	0.0032 ppm	34.7305 ppm
Concentration RSD	6.0 %	0.7 %	6.4 %	11.3 %	0.8 %	0.6 %	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	0.0016 ppm	0.0550 ppm	0.0870 ppm	0.1413 ppm	128.9675 ppm	5.2811 ppm	0.0773 ppm
Concentration per Run 1	0.0019 ppm	0.0560 ppm	0.0880 ppm	0.1432 ppm	128.6119 ppm	5.3016 ppm	0.0776 ppm
Concentration per Run 2	0.0015 ppm	0.0547 ppm	0.0866 ppm	0.1411 ppm	129.6593 ppm	5.3102 ppm	0.0780 ppm
Concentration per Run 3	0.0015 ppm	0.0544 ppm	0.0866 ppm	0.1398 ppm	128.6313 ppm	5.2316 ppm	0.0763 ppm
Concentration RSD	15.3 %	1.5 %	0.9 %	1.2 %	0.5 %	0.8 %	1.1 %

	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	23.4387 ppm	3.5221 ppm	0.0069 ppm	4.8739 ppm	0.0754 ppm	0.2276 ppm	0.0049 ppm
Concentration per Run 1	23.6156 ppm	3.5338 ppm	0.0069 ppm	4.9058 ppm	0.0758 ppm	0.2288 ppm	0.0044 ppm
Concentration per Run 2	23.4736 ppm	3.5282 ppm	0.0068 ppm	4.8690 ppm	0.0755 ppm	0.2275 ppm	0.0057 ppm
Concentration per Run 3	23.2270 ppm	3.5045 ppm	0.0071 ppm	4.8470 ppm	0.0748 ppm	0.2266 ppm	0.0047 ppm
Concentration RSD	0.8 %	0.4 %	1.7 %	0.6 %	0.7 %	0.5 %	14.5 %

	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	-0.0017 ppm	2.7815 ppm	0.0063 ppm	0.1347 ppm	2.3945 ppm	-0.0009 ppm	0.1532 ppm
Concentration per Run 1	-0.0021 ppm	2.8280 ppm	0.0061 ppm	0.1346 ppm	2.4116 ppm	-0.0012 ppm	0.1540 ppm
Concentration per Run 2	-0.0022 ppm	2.7690 ppm	0.0064 ppm	0.1352 ppm	2.3930 ppm	-0.0005 ppm	0.1530 ppm
Concentration per Run 3	-0.0007 ppm	2.7475 ppm	0.0064 ppm	0.1341 ppm	2.3791 ppm	-0.0010 ppm	0.1527 ppm
Concentration RSD	52.9 %	1.5 %	2.9 %	0.4 %	0.7 %	35.2 %	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	0.4039 ppm	98.4567 %	102.8972 %	82.9541 %	116.1947 %	126.5179 %	119.3431 %
Concentration per Run 1	0.4058 ppm	97.5508 %	102.9471 %	82.7763 %	116.3443 %	126.4055 %	119.5847 %
Concentration per Run 2	0.4042 ppm	98.5521 %	102.6515 %	82.8652 %	115.8882 %	127.1182 %	118.9291 %
Concentration per Run 3	0.4018 ppm	99.2673 %	103.0929 %	83.2208 %	116.3518 %	126.0300 %	119.5155 %
Concentration RSD	0.5 %	0.9 %	0.2 %	0.3 %	0.2 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2472921-02D2 WG2010791
Analysis started at: 12/19/2024 8:45:26 AM
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	0.0012 ppm	49.0663 ppm	0.0161 ppm	0.0030 ppm	0.1899 ppm	0.0025 ppm	17.0501 ppm
Concentration per Run 1	0.0013 ppm	49.1541 ppm	0.0166 ppm	0.0027 ppm	0.1903 ppm	0.0024 ppm	17.1364 ppm
Concentration per Run 2	0.0010 ppm	49.4002 ppm	0.0161 ppm	0.0030 ppm	0.1912 ppm	0.0025 ppm	17.1696 ppm
Concentration per Run 3	0.0011 ppm	48.6446 ppm	0.0155 ppm	0.0034 ppm	0.1884 ppm	0.0025 ppm	16.8442 ppm
Concentration RSD	13.2 %	0.8 %	3.5 %	11.8 %	0.7 %	0.6 %	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	0.0017 ppm	0.0477 ppm	0.0823 ppm	0.0879 ppm	85.1713 ppm	6.0963 ppm	0.0595 ppm
Concentration per Run 1	0.0018 ppm	0.0483 ppm	0.0833 ppm	0.0890 ppm	85.3787 ppm	6.1357 ppm	0.0604 ppm
Concentration per Run 2	0.0015 ppm	0.0470 ppm	0.0822 ppm	0.0878 ppm	85.7884 ppm	6.1214 ppm	0.0596 ppm
Concentration per Run 3	0.0017 ppm	0.0477 ppm	0.0815 ppm	0.0870 ppm	84.3467 ppm	6.0319 ppm	0.0584 ppm
Concentration RSD	7.7 %	1.4 %	1.1 %	1.2 %	0.9 %	0.9 %	1.6 %

	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	20.3391 ppm	4.4998 ppm	0.0024 ppm	1.1248 ppm	0.0617 ppm	0.1305 ppm	0.0012 ppm
Concentration per Run 1	20.6017 ppm	4.5172 ppm	0.0027 ppm	1.1281 ppm	0.0628 ppm	0.1311 ppm	0.0014 ppm
Concentration per Run 2	20.2527 ppm	4.5242 ppm	0.0023 ppm	1.1333 ppm	0.0617 ppm	0.1305 ppm	0.0003 ppm
Concentration per Run 3	20.1629 ppm	4.4581 ppm	0.0023 ppm	1.1131 ppm	0.0607 ppm	0.1299 ppm	0.0018 ppm
Concentration RSD	1.1 %	0.8 %	9.2 %	0.9 %	1.7 %	0.5 %	66.9 %

	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	-0.0024 ppm	2.5384 ppm	0.0031 ppm	0.0790 ppm	2.1485 ppm	-0.0017 ppm	0.0989 ppm
Concentration per Run 1	-0.0030 ppm	2.5930 ppm	0.0033 ppm	0.0792 ppm	2.1790 ppm	-0.0022 ppm	0.0999 ppm
Concentration per Run 2	-0.0010 ppm	2.5413 ppm	0.0038 ppm	0.0795 ppm	2.1374 ppm	-0.0020 ppm	0.0988 ppm
Concentration per Run 3	-0.0032 ppm	2.4810 ppm	0.0023 ppm	0.0785 ppm	2.1290 ppm	-0.0008 ppm	0.0979 ppm
Concentration RSD	50.1 %	2.2 %	23.7 %	0.6 %	1.2 %	44.7 %	1.0 %

	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	0.2682 ppm	98.6461 %	102.5721 %	85.6906 %	112.2160 %	120.4405 %	114.9362 %
Concentration per Run 1	0.2715 ppm	97.5991 %	102.1921 %	85.6016 %	111.6329 %	119.8835 %	115.2838 %
Concentration per Run 2	0.2683 ppm	99.1170 %	101.8983 %	85.5629 %	113.0986 %	120.1144 %	114.8355 %
Concentration per Run 3	0.2649 ppm	99.2223 %	103.6259 %	85.9071 %	111.9165 %	121.3238 %	114.6893 %
Concentration RSD	1.2 %	0.9 %	0.9 %	0.2 %	0.7 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2472966-01D2 WG2010791
Analysis started at: 12/19/2024 8:49:50 AM
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	0.0011 ppm	27.6801 ppm	0.0451 ppm	0.0042 ppm	0.0834 ppm	0.0011 ppm	2.6292 ppm
Concentration per Run 1	0.0011 ppm	27.7793 ppm	0.0445 ppm	0.0044 ppm	0.0841 ppm	0.0011 ppm	2.6575 ppm
Concentration per Run 2	0.0011 ppm	27.5919 ppm	0.0453 ppm	0.0036 ppm	0.0829 ppm	0.0012 ppm	2.6195 ppm
Concentration per Run 3	0.0011 ppm	27.6690 ppm	0.0453 ppm	0.0044 ppm	0.0832 ppm	0.0011 ppm	2.6106 ppm
Concentration RSD	0.4 %	0.3 %	1.0 %	12.0 %	0.7 %	4.2 %	0.9 %

	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	0.0002 ppm	0.0175 ppm	0.0518 ppm	0.0563 ppm	89.8375 ppm	1.9987 ppm	0.0415 ppm
Concentration per Run 1	0.0003 ppm	0.0174 ppm	0.0518 ppm	0.0564 ppm	90.8335 ppm	2.0135 ppm	0.0417 ppm
Concentration per Run 2	0.0002 ppm	0.0175 ppm	0.0518 ppm	0.0564 ppm	89.4209 ppm	1.9888 ppm	0.0414 ppm
Concentration per Run 3	0.0002 ppm	0.0175 ppm	0.0518 ppm	0.0563 ppm	89.2582 ppm	1.9937 ppm	0.0413 ppm
Concentration RSD	34.8 %	0.4 %	0.0 %	0.1 %	1.0 %	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	10.4879 ppm	0.8474 ppm	0.0042 ppm	0.1547 ppm	0.0352 ppm	0.1168 ppm	0.0044 ppm
Concentration per Run 1	10.4870 ppm	0.8558 ppm	0.0043 ppm	0.1554 ppm	0.0350 ppm	0.1173 ppm	0.0047 ppm
Concentration per Run 2	10.5027 ppm	0.8433 ppm	0.0041 ppm	0.1535 ppm	0.0353 ppm	0.1166 ppm	0.0051 ppm
Concentration per Run 3	10.4739 ppm	0.8431 ppm	0.0043 ppm	0.1553 ppm	0.0353 ppm	0.1164 ppm	0.0036 ppm
Concentration RSD	0.1 %	0.9 %	1.7 %	0.7 %	0.6 %	0.4 %	18.2 %

	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	0.0011 ppm	2.3173 ppm	0.0011 ppm	0.0412 ppm	2.5166 ppm	0.0012 ppm	0.0813 ppm
Concentration per Run 1	0.0008 ppm	2.3250 ppm	0.0012 ppm	0.0415 ppm	2.5170 ppm	0.0009 ppm	0.0814 ppm
Concentration per Run 2	0.0019 ppm	2.3169 ppm	0.0010 ppm	0.0410 ppm	2.5220 ppm	0.0020 ppm	0.0817 ppm
Concentration per Run 3	0.0007 ppm	2.3099 ppm	0.0010 ppm	0.0410 ppm	2.5109 ppm	0.0007 ppm	0.0809 ppm
Concentration RSD	56.6 %	0.3 %	12.9 %	0.6 %	0.2 %	56.4 %	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	0.1315 ppm	101.2037 %	103.2907 %	87.8987 %	105.3600 %	109.6178 %	106.1974 %
Concentration per Run 1	0.1306 ppm	101.5727 %	102.6760 %	87.9138 %	107.0770 %	109.5436 %	106.5241 %
Concentration per Run 2	0.1318 ppm	101.0988 %	103.3392 %	87.7036 %	105.0583 %	109.3882 %	105.9384 %
Concentration per Run 3	0.1320 ppm	100.9396 %	103.8568 %	88.0786 %	103.9447 %	109.9214 %	106.1297 %
Concentration RSD	0.5 %	0.3 %	0.6 %	0.2 %	1.5 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2472966-02D2 WG2010791
Analysis started at: 12/19/2024 8:54:14 AM
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	0.0014 ppm	53.6691 ppm	0.0244 ppm	0.0052 ppm	0.1706 ppm	0.0029 ppm	22.5462 ppm
Concentration per Run 1	0.0012 ppm	54.1842 ppm	0.0248 ppm	0.0049 ppm	0.1724 ppm	0.0030 ppm	22.5366 ppm
Concentration per Run 2	0.0015 ppm	53.5438 ppm	0.0233 ppm	0.0060 ppm	0.1698 ppm	0.0029 ppm	22.4783 ppm
Concentration per Run 3	0.0016 ppm	53.2794 ppm	0.0251 ppm	0.0048 ppm	0.1696 ppm	0.0029 ppm	22.6237 ppm
Concentration RSD	16.8 %	0.9 %	4.1 %	12.9 %	0.9 %	0.6 %	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	0.0008 ppm	0.0427 ppm	0.0906 ppm	0.0988 ppm	110.5332 ppm	4.9478 ppm	0.0726 ppm
Concentration per Run 1	0.0007 ppm	0.0433 ppm	0.0919 ppm	0.0990 ppm	110.8656 ppm	5.0434 ppm	0.0744 ppm
Concentration per Run 2	0.0008 ppm	0.0423 ppm	0.0903 ppm	0.0995 ppm	110.1506 ppm	4.9419 ppm	0.0726 ppm
Concentration per Run 3	0.0009 ppm	0.0424 ppm	0.0896 ppm	0.0979 ppm	110.5835 ppm	4.8582 ppm	0.0708 ppm
Concentration RSD	10.6 %	1.3 %	1.3 %	0.8 %	0.3 %	1.9 %	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	21.9423 ppm	2.1385 ppm	0.0022 ppm	0.6480 ppm	0.0753 ppm	0.1229 ppm	0.0010 ppm
Concentration per Run 1	22.0820 ppm	2.1406 ppm	0.0021 ppm	0.6602 ppm	0.0761 ppm	0.1242 ppm	0.0008 ppm
Concentration per Run 2	21.9623 ppm	2.1309 ppm	0.0023 ppm	0.6474 ppm	0.0751 ppm	0.1216 ppm	0.0002 ppm
Concentration per Run 3	21.7827 ppm	2.1438 ppm	0.0023 ppm	0.6365 ppm	0.0748 ppm	0.1229 ppm	0.0020 ppm
Concentration RSD	0.7 %	0.3 %	4.8 %	1.8 %	0.9 %	1.1 %	90.1 %

	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	0.0000 ppm	3.3898 ppm	0.0041 ppm	0.1007 ppm	3.0198 ppm	0.0011 ppm	0.1651 ppm
Concentration per Run 1	0.0003 ppm	3.4005 ppm	0.0036 ppm	0.1020 ppm	3.0401 ppm	0.0011 ppm	0.1676 ppm
Concentration per Run 2	0.0006 ppm	3.4146 ppm	0.0035 ppm	0.1000 ppm	3.0241 ppm	0.0015 ppm	0.1651 ppm
Concentration per Run 3	-0.0008 ppm	3.3544 ppm	0.0052 ppm	0.1001 ppm	2.9952 ppm	0.0009 ppm	0.1625 ppm
Concentration RSD	4,386.3 %	0.9 %	23.6 %	1.1 %	0.8 %	27.0 %	1.5 %

	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	0.3569 ppm	100.0110 %	102.8236 %	83.8011 %	110.1882 %	117.8056 %	112.1187 %
Concentration per Run 1	0.3611 ppm	99.9416 %	103.6136 %	83.4457 %	111.2341 %	119.0794 %	111.9993 %
Concentration per Run 2	0.3557 ppm	99.5749 %	102.6557 %	84.0077 %	109.5754 %	117.3776 %	112.1714 %
Concentration per Run 3	0.3539 ppm	100.5166 %	102.2014 %	83.9499 %	109.7550 %	116.9599 %	112.1854 %
Concentration RSD	1.0 %	0.5 %	0.7 %	0.4 %	0.8 %	1.0 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473700-01D2 WG2010791
Analysis started at: 12/19/2024 8:58:39 AM
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	0.0208 ppm	87.7006 ppm	0.0678 ppm	0.0271 ppm	1.9291 ppm	0.0033 ppm	8.2311 ppm
Concentration per Run 1	0.0211 ppm	87.7340 ppm	0.0666 ppm	0.0268 ppm	1.9269 ppm	0.0033 ppm	8.2869 ppm
Concentration per Run 2	0.0209 ppm	87.9026 ppm	0.0678 ppm	0.0281 ppm	1.9374 ppm	0.0033 ppm	8.1818 ppm
Concentration per Run 3	0.0205 ppm	87.4651 ppm	0.0690 ppm	0.0263 ppm	1.9230 ppm	0.0033 ppm	8.2246 ppm
Concentration RSD	1.4 %	0.3 %	1.7 %	3.5 %	0.4 %	0.3 %	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	0.0108 ppm	0.0322 ppm	0.1545 ppm	0.6447 ppm	140.6311 ppm	4.5574 ppm	0.0831 ppm
Concentration per Run 1	0.0110 ppm	0.0326 ppm	0.1558 ppm	0.6526 ppm	140.9957 ppm	4.5278 ppm	0.0828 ppm
Concentration per Run 2	0.0109 ppm	0.0323 ppm	0.1548 ppm	0.6462 ppm	140.7193 ppm	4.5784 ppm	0.0833 ppm
Concentration per Run 3	0.0105 ppm	0.0316 ppm	0.1530 ppm	0.6354 ppm	140.1782 ppm	4.5662 ppm	0.0831 ppm
Concentration RSD	2.1 %	1.6 %	0.9 %	1.4 %	0.3 %	0.6 %	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	14.2859 ppm	1.7986 ppm	0.0134 ppm	4.8135 ppm	0.0949 ppm	12.9432 ppm	0.0170 ppm
Concentration per Run 1	14.4138 ppm	1.8086 ppm	0.0137 ppm	4.8053 ppm	0.0960 ppm	13.0955 ppm	0.0174 ppm
Concentration per Run 2	14.2952 ppm	1.7912 ppm	0.0133 ppm	4.7793 ppm	0.0953 ppm	12.8896 ppm	0.0162 ppm
Concentration per Run 3	14.1488 ppm	1.7960 ppm	0.0131 ppm	4.8559 ppm	0.0935 ppm	12.8446 ppm	0.0173 ppm
Concentration RSD	0.9 %	0.5 %	2.4 %	0.8 %	1.3 %	1.0 %	4.0 %

	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	0.0076 ppm	2.5938 ppm	0.2698 ppm	0.1106 ppm	2.5619 ppm	0.0022 ppm	0.3540 ppm
Concentration per Run 1	0.0085 ppm	2.6458 ppm	0.2740 ppm	0.1104 ppm	2.5866 ppm	0.0017 ppm	0.3572 ppm
Concentration per Run 2	0.0067 ppm	2.5948 ppm	0.2692 ppm	0.1113 ppm	2.5623 ppm	0.0021 ppm	0.3536 ppm
Concentration per Run 3	0.0077 ppm	2.5409 ppm	0.2663 ppm	0.1102 ppm	2.5367 ppm	0.0029 ppm	0.3512 ppm
Concentration RSD	11.5 %	2.0 %	1.4 %	0.5 %	1.0 %	26.2 %	0.9 %

	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	4.1607 ppm	102.2601 %	107.1267 %	84.3344 %	115.1999 %	123.8631 %	115.6468 %
Concentration per Run 1	4.2216 ppm	101.3492 %	107.1829 %	83.8153 %	115.0570 %	123.7778 %	115.7080 %
Concentration per Run 2	4.1628 ppm	102.3497 %	107.4143 %	84.5093 %	115.1844 %	124.4016 %	115.4536 %
Concentration per Run 3	4.0977 ppm	103.0813 %	106.7829 %	84.6787 %	115.3583 %	123.4100 %	115.7788 %
Concentration RSD	1.5 %	0.9 %	0.3 %	0.5 %	0.1 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473700-02D2 WG2010791
Analysis started at: 12/19/2024 9:03:03 AM
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	0.0008 ppm	44.9994 ppm	0.0114 ppm	0.0180 ppm	0.1814 ppm	0.0021 ppm	4.7290 ppm
Concentration per Run 1	0.0007 ppm	45.0575 ppm	0.0112 ppm	0.0169 ppm	0.1813 ppm	0.0021 ppm	4.7193 ppm
Concentration per Run 2	0.0007 ppm	45.0850 ppm	0.0118 ppm	0.0185 ppm	0.1824 ppm	0.0022 ppm	4.7579 ppm
Concentration per Run 3	0.0011 ppm	44.8558 ppm	0.0111 ppm	0.0186 ppm	0.1804 ppm	0.0021 ppm	4.7099 ppm
Concentration RSD	27.5 %	0.3 %	3.1 %	5.2 %	0.6 %	2.4 %	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	0.0009 ppm	0.0349 ppm	0.0592 ppm	0.1052 ppm	77.8473 ppm	5.0402 ppm	0.0575 ppm
Concentration per Run 1	0.0008 ppm	0.0351 ppm	0.0594 ppm	0.1050 ppm	77.7848 ppm	5.0636 ppm	0.0583 ppm
Concentration per Run 2	0.0009 ppm	0.0347 ppm	0.0596 ppm	0.1051 ppm	78.2463 ppm	5.0412 ppm	0.0575 ppm
Concentration per Run 3	0.0010 ppm	0.0349 ppm	0.0587 ppm	0.1055 ppm	77.5108 ppm	5.0159 ppm	0.0566 ppm
Concentration RSD	10.9 %	0.5 %	0.8 %	0.3 %	0.5 %	0.5 %	1.4 %

	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	14.9791 ppm	2.8358 ppm	0.0007 ppm	0.7040 ppm	0.0493 ppm	0.0464 ppm	0.0009 ppm
Concentration per Run 1	15.0749 ppm	2.8374 ppm	0.0008 ppm	0.7054 ppm	0.0497 ppm	0.0464 ppm	0.0010 ppm
Concentration per Run 2	14.9788 ppm	2.8461 ppm	0.0006 ppm	0.7064 ppm	0.0491 ppm	0.0467 ppm	0.0033 ppm
Concentration per Run 3	14.8834 ppm	2.8241 ppm	0.0009 ppm	0.7002 ppm	0.0492 ppm	0.0462 ppm	-0.0015 ppm
Concentration RSD	0.6 %	0.4 %	22.1 %	0.5 %	0.6 %	0.5 %	261.9 %

	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	-0.0016 ppm	3.9470 ppm	0.0020 ppm	0.0217 ppm	2.5380 ppm	-0.0001 ppm	0.1770 ppm
Concentration per Run 1	-0.0024 ppm	3.9726 ppm	0.0021 ppm	0.0216 ppm	2.5555 ppm	-0.0008 ppm	0.1790 ppm
Concentration per Run 2	-0.0008 ppm	3.9335 ppm	0.0023 ppm	0.0218 ppm	2.5309 ppm	0.0004 ppm	0.1766 ppm
Concentration per Run 3	-0.0015 ppm	3.9348 ppm	0.0016 ppm	0.0216 ppm	2.5275 ppm	0.0002 ppm	0.1755 ppm
Concentration RSD	51.8 %	0.6 %	18.2 %	0.5 %	0.6 %	997.2 %	1.0 %

	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	0.2892 ppm	103.6773 %	106.9672 %	89.5646 %	105.9968 %	112.4934 %	108.1149 %
Concentration per Run 1	0.2932 ppm	103.1405 %	107.6308 %	89.2498 %	106.5667 %	113.5330 %	108.2137 %
Concentration per Run 2	0.2887 ppm	104.3061 %	106.2167 %	89.3122 %	106.2784 %	111.0336 %	107.7962 %
Concentration per Run 3	0.2858 ppm	103.5851 %	107.0542 %	90.1318 %	105.1454 %	112.9137 %	108.3347 %
Concentration RSD	1.3 %	0.6 %	0.7 %	0.5 %	0.7 %	1.2 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474220-01D2 WG2010791
Analysis started at: 12/19/2024 9:07:28 AM
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	0.0049 ppm	76.9029 ppm	0.0748 ppm	0.0243 ppm	0.8047 ppm	0.0033 ppm	29.4497 ppm
Concentration per Run 1	0.0051 ppm	73.5722 ppm	0.0740 ppm	0.0238 ppm	0.7738 ppm	0.0032 ppm	28.3409 ppm
Concentration per Run 2	0.0050 ppm	79.8134 ppm	0.0763 ppm	0.0244 ppm	0.8344 ppm	0.0034 ppm	30.2965 ppm
Concentration per Run 3	0.0045 ppm	77.3231 ppm	0.0741 ppm	0.0246 ppm	0.8058 ppm	0.0033 ppm	29.7116 ppm
Concentration RSD	6.2 %	4.1 %	1.7 %	1.7 %	3.8 %	3.1 %	3.4 %

	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	0.0188 ppm	0.0547 ppm	0.2060 ppm	0.5904 ppm	151.9666 ppm	9.6199 ppm	0.1586 ppm
Concentration per Run 1	0.0189 ppm	0.0545 ppm	0.2071 ppm	0.5933 ppm	146.5547 ppm	9.1969 ppm	0.1526 ppm
Concentration per Run 2	0.0189 ppm	0.0549 ppm	0.2072 ppm	0.5917 ppm	156.7366 ppm	10.0559 ppm	0.1646 ppm
Concentration per Run 3	0.0186 ppm	0.0547 ppm	0.2037 ppm	0.5863 ppm	152.6086 ppm	9.6069 ppm	0.1585 ppm
Concentration RSD	0.9 %	0.4 %	1.0 %	0.6 %	3.4 %	4.5 %	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	28.0818 ppm	2.2671 ppm	0.0141 ppm	1.6864 ppm	0.1654 ppm	3.9300 ppm	0.0102 ppm
Concentration per Run 1	28.3190 ppm	2.1819 ppm	0.0135 ppm	1.6097 ppm	0.1666 ppm	3.9645 ppm	0.0101 ppm
Concentration per Run 2	28.1594 ppm	2.3379 ppm	0.0142 ppm	1.7561 ppm	0.1661 ppm	3.9409 ppm	0.0101 ppm
Concentration per Run 3	27.7670 ppm	2.2813 ppm	0.0146 ppm	1.6934 ppm	0.1636 ppm	3.8848 ppm	0.0105 ppm
Concentration RSD	1.0 %	3.5 %	3.9 %	4.4 %	1.0 %	1.0 %	2.2 %

	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	0.0017 ppm	2.5184 ppm	0.3345 ppm	0.2134 ppm	2.9622 ppm	0.0012 ppm	0.3001 ppm
Concentration per Run 1	0.0018 ppm	2.5558 ppm	0.3361 ppm	0.2052 ppm	2.9807 ppm	0.0003 ppm	0.3021 ppm
Concentration per Run 2	0.0008 ppm	2.5145 ppm	0.3364 ppm	0.2212 ppm	2.9751 ppm	0.0019 ppm	0.3007 ppm
Concentration per Run 3	0.0023 ppm	2.4848 ppm	0.3311 ppm	0.2139 ppm	2.9309 ppm	0.0015 ppm	0.2974 ppm
Concentration RSD	45.1 %	1.4 %	0.9 %	3.7 %	0.9 %	70.7 %	0.8 %

	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	1.9439 ppm	100.2787 %	106.7284 %	81.0013 %	109.9271 %	120.8847 %	110.1165 %
Concentration per Run 1	1.9552 ppm	99.8347 %	110.9112 %	80.6383 %	110.0213 %	126.2254 %	110.2876 %
Concentration per Run 2	1.9526 ppm	99.9781 %	104.0147 %	80.4452 %	109.2824 %	117.0018 %	109.3440 %
Concentration per Run 3	1.9238 ppm	101.0232 %	105.2592 %	81.9205 %	110.4775 %	119.4268 %	110.7180 %
Concentration RSD	0.9 %	0.6 %	3.4 %	1.0 %	0.5 %	4.0 %	0.6 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: CCV
Analysis started at: 12/19/2024 9:11:53 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	0.4985 ppm	0.4805 ppm	0.4757 ppm	0.5035 ppm	0.4854 ppm	0.5120 ppm	0.5049 ppm
Concentration per Run 1	0.5027 ppm	0.4830 ppm	0.4784 ppm	0.5054 ppm	0.4823 ppm	0.5113 ppm	0.5078 ppm
Concentration per Run 2	0.5001 ppm	0.4833 ppm	0.4540 ppm	0.5038 ppm	0.4816 ppm	0.5117 ppm	0.5018 ppm
Concentration per Run 3	0.4927 ppm	0.4751 ppm	0.4948 ppm	0.5014 ppm	0.4924 ppm	0.5130 ppm	0.5050 ppm
Recovery Percentage 1	99.699 %	96.094 %	95.146 %	100.708 %	97.081 %	102.393 %	100.976 %
Concentration RSD	1.0 %	1.0 %	4.3 %	0.4 %	1.2 %	0.2 %	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	0.5043 ppm	0.5196 ppm	0.5007 ppm	0.4986 ppm	0.5273 ppm	5.1101 ppm	0.4903 ppm
Concentration per Run 1	0.5078 ppm	0.5231 ppm	0.5029 ppm	0.5030 ppm	0.5254 ppm	5.0859 ppm	0.4871 ppm
Concentration per Run 2	0.5040 ppm	0.5186 ppm	0.5029 ppm	0.4981 ppm	0.5276 ppm	5.1335 ppm	0.4914 ppm
Concentration per Run 3	0.5010 ppm	0.5171 ppm	0.4962 ppm	0.4946 ppm	0.5290 ppm	5.1108 ppm	0.4925 ppm
Recovery Percentage 1	100.859 %	103.920 %	100.131 %	99.712 %	105.464 %	102.201 %	98.065 %
Concentration RSD	0.7 %	0.6 %	0.8 %	0.8 %	0.3 %	0.5 %	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	0.5106 ppm	0.4990 ppm	0.5065 ppm	9.9748 ppm	0.5168 ppm	0.4805 ppm	0.5081 ppm
Concentration per Run 1	0.5139 ppm	0.4986 ppm	0.5051 ppm	10.0059 ppm	0.5191 ppm	0.4906 ppm	0.5111 ppm
Concentration per Run 2	0.5122 ppm	0.4991 ppm	0.5062 ppm	9.9022 ppm	0.5177 ppm	0.4523 ppm	0.5098 ppm
Concentration per Run 3	0.5056 ppm	0.4994 ppm	0.5082 ppm	10.0163 ppm	0.5135 ppm	0.4987 ppm	0.5035 ppm
Recovery Percentage 1	102.112 %	99.807 %	101.303 %	99.748 %	103.350 %	96.102 %	101.627 %
Concentration RSD	0.9 %	0.1 %	0.3 %	0.6 %	0.6 %	5.2 %	0.8 %

	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	0.4803 ppm	5.6048 ppm	0.5340 ppm	0.5136 ppm	0.5052 ppm	0.4830 ppm	0.5005 ppm
Concentration per Run 1	0.4846 ppm	5.6290 ppm	0.5344 ppm	0.5128 ppm	0.5089 ppm	0.4893 ppm	0.5040 ppm
Concentration per Run 2	0.4568 ppm	5.6143 ppm	0.5348 ppm	0.5108 ppm	0.5067 ppm	0.4574 ppm	0.5017 ppm
Concentration per Run 3	0.4995 ppm	5.5711 ppm	0.5326 ppm	0.5172 ppm	0.4999 ppm	0.5024 ppm	0.4959 ppm
Recovery Percentage 1	96.060 %	106.759 %	106.790 %	102.718 %	101.038 %	96.603 %	100.109 %
Concentration RSD	4.5 %	0.5 %	0.2 %	0.6 %	0.9 %	4.8 %	0.8 %

	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	0.5093 ppm	100.2587 %	101.4035 %	95.9489 %	97.6968 %	100.5187 %	99.5059 %
Concentration per Run 1	0.5111 ppm	99.5790 %	101.4632 %	94.1455 %	97.6633 %	100.3805 %	98.6947 %
Concentration per Run 2	0.5090 ppm	100.0837 %	101.6109 %	100.8736 %	97.3742 %	100.6923 %	103.4537 %
Concentration per Run 3	0.5078 ppm	101.1134 %	101.1365 %	92.8278 %	98.0528 %	100.4833 %	96.3692 %
Recovery Percentage 1	101.861 %						
Concentration RSD	0.3 %	0.8 %	0.2 %	4.5 %	0.3 %	0.2 %	3.6 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: CCB
Analysis started at: 12/19/2024 9:16:18 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	0.0002 ppm	0.0011 ppm	0.0013 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0013 ppm
Concentration per Run 1	0.0002 ppm	0.0004 ppm	0.0005 ppm	0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 2	0.0002 ppm	0.0026 ppm	0.0022 ppm	0.0007 ppm	0.0000 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 3	0.0003 ppm	0.0002 ppm	0.0011 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0029 ppm
Recovery Percentage 1	4.568 %	1.052 %	25.438 %	1.815 %	0.562 %	0.918 %	1.271 %
Concentration RSD	41.8 %	124.3 %	65.2 %	73.4 %	35.8 %	53.8 %	114.0 %

	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	0.0001 ppm	0.0002 ppm	0.0016 ppm	0.0019 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0026 ppm	0.0045 ppm	0.0000 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0010 ppm	-0.0057 ppm	-0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0014 ppm	0.0070 ppm	0.0003 ppm
Recovery Percentage 1	0.595 %	0.061 %	1.203 %	1.512 %	3.260 %	0.076 %	0.583 %
Concentration RSD	99.8 %	1,880.1 %	99.3 %	24.2 %	50.6 %	353.6 %	408.2 %

	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	0.0002 ppm	0.0000 ppm	0.0018 ppm	-0.0041 ppm	0.0002 ppm	-0.0001 ppm	0.0039 ppm
Concentration per Run 1	0.0005 ppm	-0.0001 ppm	0.0022 ppm	-0.0034 ppm	-0.0001 ppm	-0.0005 ppm	0.0022 ppm
Concentration per Run 2	0.0005 ppm	0.0001 ppm	0.0018 ppm	-0.0051 ppm	-0.0003 ppm	0.0009 ppm	0.0043 ppm
Concentration per Run 3	-0.0004 ppm	0.0000 ppm	0.0013 ppm	-0.0037 ppm	0.0010 ppm	-0.0008 ppm	0.0053 ppm
Recovery Percentage 1	0.217 %	-0.324 %	3.510 %	-0.203 %	0.867 %	-1.291 %	7.872 %
Concentration RSD	242.0 %	256.4 %	26.9 %	23.4 %	321.2 %	725.0 %	39.5 %

	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	-0.0013 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 1	0.0003 ppm	-0.0016 ppm	-0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0006 ppm	0.0001 ppm
Concentration per Run 2	-0.0003 ppm	-0.0002 ppm	0.0003 ppm	0.0001 ppm	-0.0001 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 3	0.0002 ppm	-0.0020 ppm	0.0006 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0002 ppm
Recovery Percentage 1	0.518 %	-0.258 %	0.137 %	0.705 %	0.066 %	-0.403 %	1.335 %
Concentration RSD	580.2 %	75.2 %	951.6 %	32.0 %	1,511.9 %	801.1 %	38.5 %

	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	0.0002 ppm	95.7435 %	98.9814 %	95.1140 %	99.8209 %	101.2383 %	100.8985 %
Concentration per Run 1	0.0002 ppm	94.4920 %	98.5902 %	94.0711 %	99.9210 %	101.4486 %	100.7404 %
Concentration per Run 2	0.0002 ppm	95.8054 %	99.5269 %	95.4607 %	99.6665 %	101.2980 %	100.7914 %
Concentration per Run 3	0.0002 ppm	96.9331 %	98.8271 %	95.8102 %	99.8752 %	100.9684 %	101.1637 %
Recovery Percentage 1	4.217 %						
Concentration RSD	11.8 %	1.3 %	0.5 %	1.0 %	0.1 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474220-02D2 WG2010791
Analysis started at: 12/19/2024 9:24:56 AM
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	0.0018 ppm	80.4305 ppm	0.0471 ppm	0.0291 ppm	0.3196 ppm	0.0023 ppm	19.0860 ppm
Concentration per Run 1	0.0018 ppm	80.9968 ppm	0.0478 ppm	0.0287 ppm	0.3216 ppm	0.0024 ppm	19.2789 ppm
Concentration per Run 2	0.0018 ppm	79.9537 ppm	0.0461 ppm	0.0289 ppm	0.3187 ppm	0.0023 ppm	18.9041 ppm
Concentration per Run 3	0.0018 ppm	80.3411 ppm	0.0472 ppm	0.0295 ppm	0.3186 ppm	0.0023 ppm	19.0751 ppm
Concentration RSD	1.9 %	0.7 %	1.8 %	1.4 %	0.5 %	2.1 %	1.0 %

	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	0.0050 ppm	0.0352 ppm	0.1677 ppm	0.2841 ppm	135.6116 ppm	12.8651 ppm	0.2254 ppm
Concentration per Run 1	0.0050 ppm	0.0351 ppm	0.1684 ppm	0.2860 ppm	137.1030 ppm	12.9826 ppm	0.2294 ppm
Concentration per Run 2	0.0050 ppm	0.0356 ppm	0.1684 ppm	0.2846 ppm	134.3872 ppm	12.7802 ppm	0.2231 ppm
Concentration per Run 3	0.0050 ppm	0.0349 ppm	0.1664 ppm	0.2818 ppm	135.3446 ppm	12.8325 ppm	0.2235 ppm
Concentration RSD	0.6 %	1.0 %	0.7 %	0.8 %	1.0 %	0.8 %	1.6 %

	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	28.5655 ppm	1.3841 ppm	0.0105 ppm	1.5601 ppm	0.1019 ppm	0.8131 ppm	0.0053 ppm
Concentration per Run 1	28.6228 ppm	1.3952 ppm	0.0100 ppm	1.5779 ppm	0.1026 ppm	0.8121 ppm	0.0057 ppm
Concentration per Run 2	28.6504 ppm	1.3748 ppm	0.0105 ppm	1.5506 ppm	0.1024 ppm	0.8174 ppm	0.0063 ppm
Concentration per Run 3	28.4232 ppm	1.3824 ppm	0.0110 ppm	1.5517 ppm	0.1005 ppm	0.8096 ppm	0.0040 ppm
Concentration RSD	0.4 %	0.7 %	4.8 %	1.0 %	1.1 %	0.5 %	21.4 %

	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	0.0005 ppm	2.8617 ppm	0.0318 ppm	0.1418 ppm	3.6832 ppm	0.0017 ppm	0.2552 ppm
Concentration per Run 1	-0.0005 ppm	2.8817 ppm	0.0320 ppm	0.1430 ppm	3.7029 ppm	0.0011 ppm	0.2562 ppm
Concentration per Run 2	0.0008 ppm	2.8743 ppm	0.0313 ppm	0.1408 ppm	3.6948 ppm	0.0008 ppm	0.2560 ppm
Concentration per Run 3	0.0011 ppm	2.8292 ppm	0.0320 ppm	0.1417 ppm	3.6521 ppm	0.0031 ppm	0.2534 ppm
Concentration RSD	188.4 %	1.0 %	1.3 %	0.8 %	0.7 %	73.6 %	0.6 %

	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	0.9972 ppm	101.3890 %	105.3556 %	81.7342 %	108.1637 %	116.8104 %	109.3701 %
Concentration per Run 1	0.9992 ppm	100.8693 %	104.8176 %	82.0942 %	107.6227 %	116.5257 %	109.7821 %
Concentration per Run 2	1.0034 ppm	101.2585 %	106.4016 %	81.3367 %	107.9371 %	117.7623 %	108.9627 %
Concentration per Run 3	0.9889 ppm	102.0392 %	104.8476 %	81.7717 %	108.9314 %	116.1431 %	109.3656 %
Concentration RSD	0.8 %	0.6 %	0.9 %	0.5 %	0.6 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474220-03D2 WG2010791
Analysis started at: 12/19/2024 9:29:27 AM
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	0.0005 ppm	74.9386 ppm	0.0217 ppm	0.0476 ppm	0.0392 ppm	0.0012 ppm	17.0993 ppm
Concentration per Run 1	0.0005 ppm	75.1328 ppm	0.0205 ppm	0.0478 ppm	0.0393 ppm	0.0012 ppm	17.1858 ppm
Concentration per Run 2	0.0006 ppm	75.2839 ppm	0.0216 ppm	0.0476 ppm	0.0393 ppm	0.0012 ppm	17.1842 ppm
Concentration per Run 3	0.0004 ppm	74.3990 ppm	0.0230 ppm	0.0473 ppm	0.0389 ppm	0.0012 ppm	16.9279 ppm
Concentration RSD	14.4 %	0.6 %	5.9 %	0.5 %	0.5 %	2.0 %	0.9 %

	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	0.0000 ppm	0.0130 ppm	0.0808 ppm	0.0227 ppm	52.2082 ppm	3.3249 ppm	0.2883 ppm
Concentration per Run 1	0.0000 ppm	0.0132 ppm	0.0820 ppm	0.0230 ppm	52.4399 ppm	3.3236 ppm	0.2880 ppm
Concentration per Run 2	0.0000 ppm	0.0130 ppm	0.0803 ppm	0.0228 ppm	52.3539 ppm	3.3334 ppm	0.2891 ppm
Concentration per Run 3	0.0000 ppm	0.0127 ppm	0.0802 ppm	0.0222 ppm	51.8310 ppm	3.3177 ppm	0.2880 ppm
Concentration RSD	67.4 %	2.0 %	1.3 %	1.9 %	0.6 %	0.2 %	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	10.1024 ppm	0.2815 ppm	0.0375 ppm	4.2950 ppm	0.0466 ppm	0.0453 ppm	0.0010 ppm
Concentration per Run 1	10.2471 ppm	0.2829 ppm	0.0374 ppm	4.2863 ppm	0.0470 ppm	0.0457 ppm	0.0007 ppm
Concentration per Run 2	10.0440 ppm	0.2826 ppm	0.0373 ppm	4.3208 ppm	0.0470 ppm	0.0455 ppm	0.0017 ppm
Concentration per Run 3	10.0160 ppm	0.2789 ppm	0.0377 ppm	4.2779 ppm	0.0457 ppm	0.0448 ppm	0.0005 ppm
Concentration RSD	1.2 %	0.8 %	0.5 %	0.5 %	1.6 %	1.0 %	67.1 %

	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	0.0013 ppm	4.7740 ppm	0.0050 ppm	0.1135 ppm	1.8829 ppm	0.0007 ppm	0.1068 ppm
Concentration per Run 1	0.0010 ppm	4.8413 ppm	0.0058 ppm	0.1142 ppm	1.9043 ppm	0.0008 ppm	0.1077 ppm
Concentration per Run 2	0.0011 ppm	4.7781 ppm	0.0056 ppm	0.1137 ppm	1.8779 ppm	0.0002 ppm	0.1062 ppm
Concentration per Run 3	0.0017 ppm	4.7027 ppm	0.0037 ppm	0.1127 ppm	1.8664 ppm	0.0011 ppm	0.1066 ppm
Concentration RSD	30.4 %	1.5 %	22.8 %	0.7 %	1.0 %	68.3 %	0.7 %

	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	0.0905 ppm	99.0741 %	103.9075 %	85.1877 %	98.9509 %	106.1287 %	98.9415 %
Concentration per Run 1	0.0918 ppm	98.2623 %	104.1654 %	84.9706 %	98.8239 %	106.6317 %	99.1117 %
Concentration per Run 2	0.0900 ppm	99.3902 %	103.0941 %	85.4256 %	99.3081 %	105.0932 %	99.0453 %
Concentration per Run 3	0.0897 ppm	99.5698 %	104.4631 %	85.1669 %	98.7206 %	106.6614 %	98.6677 %
Concentration RSD	1.2 %	0.7 %	0.7 %	0.3 %	0.3 %	0.8 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474220-05D2 WG2010791
Analysis started at: 12/19/2024 9:33:53 AM
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	0.0013 ppm	66.5152 ppm	0.0482 ppm	0.0316 ppm	0.4262 ppm	0.0045 ppm	237.8695 ppm
Concentration per Run 1	0.0013 ppm	66.7237 ppm	0.0480 ppm	0.0329 ppm	0.4284 ppm	0.0045 ppm	239.1901 ppm
Concentration per Run 2	0.0013 ppm	66.3184 ppm	0.0505 ppm	0.0310 ppm	0.4240 ppm	0.0045 ppm	237.4979 ppm
Concentration per Run 3	0.0014 ppm	66.5036 ppm	0.0460 ppm	0.0310 ppm	0.4262 ppm	0.0045 ppm	236.9205 ppm
Concentration RSD	5.0 %	0.3 %	4.6 %	3.6 %	0.5 %	0.8 %	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	0.0015 ppm	0.0337 ppm	0.1622 ppm	0.1864 ppm	98.0749 ppm	10.9925 ppm	0.1260 ppm
Concentration per Run 1	0.0016 ppm	0.0342 ppm	0.1643 ppm	0.1886 ppm	98.5843 ppm	11.0195 ppm	0.1268 ppm
Concentration per Run 2	0.0014 ppm	0.0330 ppm	0.1628 ppm	0.1854 ppm	98.0382 ppm	10.9863 ppm	0.1263 ppm
Concentration per Run 3	0.0016 ppm	0.0339 ppm	0.1594 ppm	0.1853 ppm	97.6023 ppm	10.9718 ppm	0.1250 ppm
Concentration RSD	6.8 %	1.8 %	1.5 %	1.0 %	0.5 %	0.2 %	0.7 %

	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	33.1182 ppm	2.1893 ppm	0.0135 ppm	2.4351 ppm	0.0948 ppm	0.4870 ppm	0.0056 ppm
Concentration per Run 1	33.5625 ppm	2.2015 ppm	0.0130 ppm	2.4352 ppm	0.0965 ppm	0.5030 ppm	0.0074 ppm
Concentration per Run 2	33.2622 ppm	2.1814 ppm	0.0139 ppm	2.4332 ppm	0.0951 ppm	0.4940 ppm	0.0041 ppm
Concentration per Run 3	32.5299 ppm	2.1851 ppm	0.0134 ppm	2.4368 ppm	0.0927 ppm	0.4642 ppm	0.0053 ppm
Concentration RSD	1.6 %	0.5 %	3.5 %	0.1 %	2.0 %	4.2 %	29.0 %

	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	-0.0003 ppm	33.0858 [SIC 100]	0.0150 ppm	0.4852 ppm	3.2365 ppm	0.0005 ppm	0.1475 ppm
Concentration per Run 1	-0.0006 ppm	33.4875 ppm	0.0152 ppm	0.4879 ppm	3.2769 ppm	-0.0004 ppm	0.1495 ppm
Concentration per Run 2	0.0000 ppm	33.1300 ppm	0.0151 ppm	0.4809 ppm	3.2399 ppm	0.0016 ppm	0.1478 ppm
Concentration per Run 3	-0.0002 ppm	32.6399 ppm	0.0149 ppm	0.4868 ppm	3.1927 ppm	0.0004 ppm	0.1452 ppm
Concentration RSD	107.0 %	1.3 %	1.2 %	0.8 %	1.3 %	191.1 %	1.5 %

	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	0.6992 ppm	95.3643 %	102.5176 %	75.0280 %	108.7978 %	120.3544 %	111.6324 %
Concentration per Run 1	0.7089 ppm	94.5221 %	102.2596 %	72.9275 %	109.3447 %	120.5062 %	109.6317 %
Concentration per Run 2	0.7024 ppm	95.1987 %	102.2491 %	73.7500 %	107.8714 %	120.1618 %	109.8592 %
Concentration per Run 3	0.6863 ppm	96.3721 %	103.0442 %	78.4065 %	109.1775 %	120.3953 %	115.4063 %
Concentration RSD	1.7 %	1.0 %	0.4 %	3.9 %	0.7 %	0.1 %	2.9 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474220-06D2 WG2010791
Analysis started at: 12/19/2024 9:38:19 AM
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	0.0068 ppm	84.7861 ppm	0.0940 ppm	0.0494 ppm	0.4474 ppm	0.0026 ppm	731.6974 ppm
Concentration per Run 1	0.0067 ppm	84.8187 ppm	0.0947 ppm	0.0498 ppm	0.4481 ppm	0.0026 ppm	728.6729 ppm
Concentration per Run 2	0.0068 ppm	84.6666 ppm	0.0950 ppm	0.0486 ppm	0.4476 ppm	0.0026 ppm	732.2155 ppm
Concentration per Run 3	0.0068 ppm	84.8729 ppm	0.0924 ppm	0.0500 ppm	0.4464 ppm	0.0026 ppm	734.2038 ppm
Concentration RSD	1.2 %	0.1 %	1.5 %	1.5 %	0.2 %	0.7 %	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	0.0007 ppm	0.0577 ppm	0.1557 ppm	0.5344 ppm	147.3990 ppm	12.8427 ppm	0.1990 ppm
Concentration per Run 1	0.0007 ppm	0.0582 ppm	0.1563 ppm	0.5386 ppm	146.5582 ppm	12.8872 ppm	0.1949 ppm
Concentration per Run 2	0.0008 ppm	0.0577 ppm	0.1566 ppm	0.5349 ppm	147.5554 ppm	12.7609 ppm	0.1966 ppm
Concentration per Run 3	0.0007 ppm	0.0571 ppm	0.1543 ppm	0.5297 ppm	148.0833 ppm	12.8800 ppm	0.2054 ppm
Concentration RSD	10.4 %	1.0 %	0.8 %	0.8 %	0.5 %	0.6 %	2.8 %

	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	33.6894 ppm	2.2715 ppm	0.0064 ppm	7.3059 ppm	0.1244 ppm	2.3701 ppm	0.0219 ppm
Concentration per Run 1	33.9271 ppm	2.2637 ppm	0.0069 ppm	7.3505 ppm	0.1231 ppm	2.3922 ppm	0.0221 ppm
Concentration per Run 2	33.7448 ppm	2.2746 ppm	0.0062 ppm	7.2592 ppm	0.1248 ppm	2.3730 ppm	0.0229 ppm
Concentration per Run 3	33.3962 ppm	2.2761 ppm	0.0059 ppm	7.3079 ppm	0.1252 ppm	2.3451 ppm	0.0208 ppm
Concentration RSD	0.8 %	0.3 %	7.9 %	0.6 %	0.9 %	1.0 %	4.8 %

	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	-0.0002 ppm	3.5366 ppm	0.0696 ppm	2.0428 ppm	3.9703 ppm	0.0021 ppm	0.2434 ppm
Concentration per Run 1	-0.0012 ppm	3.5681 ppm	0.0699 ppm	2.0406 ppm	4.0050 ppm	0.0027 ppm	0.2448 ppm
Concentration per Run 2	0.0001 ppm	3.5443 ppm	0.0690 ppm	2.0365 ppm	3.9655 ppm	0.0029 ppm	0.2436 ppm
Concentration per Run 3	0.0005 ppm	3.4974 ppm	0.0699 ppm	2.0514 ppm	3.9405 ppm	0.0006 ppm	0.2417 ppm
Concentration RSD	438.7 %	1.0 %	0.7 %	0.4 %	0.8 %	62.4 %	0.7 %

	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	4.3934 ppm	90.1451 %	99.4728 %	66.4324 %	95.8560 %	109.7613 %	97.1961 %
Concentration per Run 1	4.4131 ppm	89.8398 %	99.7346 %	66.1948 %	95.9299 %	109.5893 %	97.2508 %
Concentration per Run 2	4.4060 ppm	89.9258 %	99.7019 %	66.4687 %	95.5817 %	110.0559 %	97.3714 %
Concentration per Run 3	4.3612 ppm	90.6697 %	98.9820 %	66.6339 %	96.0563 %	109.6385 %	96.9660 %
Concentration RSD	0.6 %	0.5 %	0.4 %	0.3 %	0.3 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474220-07D2 WG2010791
Analysis started at: 12/19/2024 9:42:46 AM
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	0.0017 ppm	135.5920 ppm	0.0861 ppm	0.1230 ppm	0.2677 ppm	0.0062 ppm	41.0733 ppm
Concentration per Run 1	0.0018 ppm	134.6233 ppm	0.0852 ppm	0.1245 ppm	0.2668 ppm	0.0061 ppm	40.4780 ppm
Concentration per Run 2	0.0014 ppm	137.3526 ppm	0.0863 ppm	0.1224 ppm	0.2696 ppm	0.0062 ppm	41.6499 ppm
Concentration per Run 3	0.0019 ppm	134.8003 ppm	0.0868 ppm	0.1219 ppm	0.2667 ppm	0.0062 ppm	41.0920 ppm
Concentration RSD	14.9 %	1.1 %	1.0 %	1.1 %	0.6 %	0.9 %	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	0.0013 ppm	0.0496 ppm	0.2424 ppm	0.0984 ppm	150.9341 ppm	32.2029 ppm	0.3989 ppm
Concentration per Run 1	0.0014 ppm	0.0493 ppm	0.2456 ppm	0.0989 ppm	149.3492 ppm	31.9929 ppm	0.3991 ppm
Concentration per Run 2	0.0011 ppm	0.0500 ppm	0.2419 ppm	0.0982 ppm	152.3743 ppm	32.8789 ppm	0.4051 ppm
Concentration per Run 3	0.0013 ppm	0.0494 ppm	0.2397 ppm	0.0981 ppm	151.0790 ppm	31.7369 ppm	0.3924 ppm
Concentration RSD	9.7 %	0.7 %	1.2 %	0.4 %	1.0 %	1.9 %	1.6 %

	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	42.4179 ppm	1.5731 ppm	0.0426 ppm	3.8140 ppm	0.1686 ppm	0.4526 ppm	0.0054 ppm
Concentration per Run 1	42.9166 ppm	1.5562 ppm	0.0428 ppm	3.7771 ppm	0.1705 ppm	0.4564 ppm	0.0049 ppm
Concentration per Run 2	42.2674 ppm	1.5903 ppm	0.0423 ppm	3.8890 ppm	0.1683 ppm	0.4504 ppm	0.0048 ppm
Concentration per Run 3	42.0698 ppm	1.5727 ppm	0.0427 ppm	3.7758 ppm	0.1669 ppm	0.4512 ppm	0.0064 ppm
Concentration RSD	1.0 %	1.1 %	0.6 %	1.7 %	1.1 %	0.7 %	16.8 %

	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	0.0035 ppm	3.2860 ppm	0.0057 ppm	0.1812 ppm	3.5999 ppm	0.0033 ppm	0.4284 ppm
Concentration per Run 1	0.0035 ppm	3.3054 ppm	0.0065 ppm	0.1804 ppm	3.6413 ppm	0.0042 ppm	0.4335 ppm
Concentration per Run 2	0.0024 ppm	3.2806 ppm	0.0056 ppm	0.1818 ppm	3.5846 ppm	0.0022 ppm	0.4272 ppm
Concentration per Run 3	0.0048 ppm	3.2719 ppm	0.0050 ppm	0.1814 ppm	3.5737 ppm	0.0035 ppm	0.4246 ppm
Concentration RSD	34.0 %	0.5 %	13.3 %	0.4 %	1.0 %	31.6 %	1.1 %

	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	0.9787 ppm	100.0813 %	105.7422 %	78.0646 %	114.2500 %	124.0534 %	113.8925 %
Concentration per Run 1	0.9903 ppm	99.1937 %	107.0195 %	77.5833 %	113.8963 %	125.0131 %	113.7382 %
Concentration per Run 2	0.9775 ppm	100.5664 %	104.4679 %	78.3570 %	114.6634 %	123.5637 %	114.0921 %
Concentration per Run 3	0.9682 ppm	100.4839 %	105.7393 %	78.2535 %	114.1903 %	123.5834 %	113.8473 %
Concentration RSD	1.1 %	0.8 %	1.2 %	0.5 %	0.3 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474220-08D2 WG2010791
Analysis started at: 12/19/2024 9:47:09 AM
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	0.0009 ppm	37.8837 ppm	0.0316 ppm	0.0037 ppm	0.1261 ppm	0.0021 ppm	5.4345 ppm
Concentration per Run 1	0.0009 ppm	37.7650 ppm	0.0307 ppm	0.0041 ppm	0.1254 ppm	0.0021 ppm	5.4330 ppm
Concentration per Run 2	0.0010 ppm	38.1881 ppm	0.0311 ppm	0.0035 ppm	0.1262 ppm	0.0022 ppm	5.4283 ppm
Concentration per Run 3	0.0008 ppm	37.6978 ppm	0.0328 ppm	0.0034 ppm	0.1266 ppm	0.0021 ppm	5.4422 ppm
Concentration RSD	9.6 %	0.7 %	3.6 %	10.3 %	0.5 %	1.0 %	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	0.0097 ppm	0.0346 ppm	0.1001 ppm	0.1215 ppm	89.5413 ppm	2.7734 ppm	0.0533 ppm
Concentration per Run 1	0.0100 ppm	0.0352 ppm	0.1025 ppm	0.1235 ppm	89.1694 ppm	2.7545 ppm	0.0532 ppm
Concentration per Run 2	0.0096 ppm	0.0343 ppm	0.0994 ppm	0.1205 ppm	89.9267 ppm	2.7694 ppm	0.0538 ppm
Concentration per Run 3	0.0097 ppm	0.0342 ppm	0.0983 ppm	0.1205 ppm	89.5280 ppm	2.7965 ppm	0.0530 ppm
Concentration RSD	2.1 %	1.5 %	2.2 %	1.5 %	0.4 %	0.8 %	0.8 %

	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	13.0455 ppm	1.8741 ppm	0.0157 ppm	0.2765 ppm	0.0588 ppm	0.1512 ppm	0.0035 ppm
Concentration per Run 1	13.3116 ppm	1.8699 ppm	0.0156 ppm	0.2761 ppm	0.0594 ppm	0.1530 ppm	0.0023 ppm
Concentration per Run 2	12.9517 ppm	1.8774 ppm	0.0159 ppm	0.2761 ppm	0.0581 ppm	0.1513 ppm	0.0042 ppm
Concentration per Run 3	12.8731 ppm	1.8750 ppm	0.0156 ppm	0.2775 ppm	0.0588 ppm	0.1495 ppm	0.0041 ppm
Concentration RSD	1.8 %	0.2 %	1.2 %	0.3 %	1.1 %	1.2 %	30.6 %

	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	2.1128 ppm	0.0069 ppm	0.0443 ppm	1.7544 ppm	-0.0005 ppm	0.1001 ppm
Concentration per Run 1	0.0005 ppm	2.1518 ppm	0.0064 ppm	0.0441 ppm	1.7906 ppm	-0.0002 ppm	0.1020 ppm
Concentration per Run 2	-0.0039 ppm	2.1039 ppm	0.0068 ppm	0.0445 ppm	1.7418 ppm	-0.0010 ppm	0.0994 ppm
Concentration per Run 3	0.0000 ppm	2.0827 ppm	0.0074 ppm	0.0442 ppm	1.7308 ppm	-0.0003 ppm	0.0990 ppm
Concentration RSD	212.3 %	1.7 %	7.4 %	0.4 %	1.8 %	83.6 %	1.6 %

	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	0.3107 ppm	100.9804 %	104.1885 %	87.7183 %	111.8918 %	117.5815 %	112.6412 %
Concentration per Run 1	0.3182 ppm	99.0812 %	104.4299 %	87.5210 %	110.7478 %	117.7832 %	112.8828 %
Concentration per Run 2	0.3089 ppm	101.6003 %	104.6431 %	87.5485 %	112.7993 %	117.9616 %	112.6167 %
Concentration per Run 3	0.3050 ppm	102.2597 %	103.4926 %	88.0852 %	112.1284 %	116.9998 %	112.4242 %
Concentration RSD	2.2 %	1.7 %	0.6 %	0.4 %	0.9 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474220-09D2 WG2010791
Analysis started at: 12/19/2024 9:51:32 AM
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	0.0007 ppm	32.8506 ppm	0.0167 ppm	0.0036 ppm	0.1072 ppm	0.0024 ppm	3.3923 ppm
Concentration per Run 1	0.0008 ppm	33.1566 ppm	0.0162 ppm	0.0039 ppm	0.1081 ppm	0.0024 ppm	3.3958 ppm
Concentration per Run 2	0.0005 ppm	32.6516 ppm	0.0162 ppm	0.0032 ppm	0.1066 ppm	0.0024 ppm	3.4088 ppm
Concentration per Run 3	0.0008 ppm	32.7436 ppm	0.0178 ppm	0.0037 ppm	0.1069 ppm	0.0024 ppm	3.3723 ppm
Concentration RSD	25.5 %	0.8 %	5.5 %	10.4 %	0.8 %	1.8 %	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	0.0015 ppm	0.0215 ppm	0.0382 ppm	0.0482 ppm	76.1925 ppm	2.6855 ppm	0.0447 ppm
Concentration per Run 1	0.0015 ppm	0.0216 ppm	0.0387 ppm	0.0485 ppm	75.4705 ppm	2.7034 ppm	0.0458 ppm
Concentration per Run 2	0.0015 ppm	0.0213 ppm	0.0379 ppm	0.0482 ppm	76.7140 ppm	2.6476 ppm	0.0436 ppm
Concentration per Run 3	0.0015 ppm	0.0216 ppm	0.0379 ppm	0.0479 ppm	76.3930 ppm	2.7054 ppm	0.0447 ppm
Concentration RSD	1.4 %	0.7 %	1.2 %	0.6 %	0.8 %	1.2 %	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	11.5284 ppm	0.9852 ppm	0.0035 ppm	1.2765 ppm	0.0368 ppm	0.0433 ppm	0.0015 ppm
Concentration per Run 1	11.6292 ppm	0.9798 ppm	0.0034 ppm	1.3088 ppm	0.0377 ppm	0.0440 ppm	0.0012 ppm
Concentration per Run 2	11.4913 ppm	0.9917 ppm	0.0039 ppm	1.2483 ppm	0.0363 ppm	0.0430 ppm	0.0020 ppm
Concentration per Run 3	11.4649 ppm	0.9840 ppm	0.0033 ppm	1.2724 ppm	0.0362 ppm	0.0430 ppm	0.0014 ppm
Concentration RSD	0.8 %	0.6 %	8.7 %	2.4 %	2.3 %	1.2 %	27.4 %

	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	-0.0012 ppm	2.5038 ppm	0.0009 ppm	0.0478 ppm	1.6616 ppm	0.0001 ppm	0.0679 ppm
Concentration per Run 1	-0.0019 ppm	2.5638 ppm	0.0007 ppm	0.0481 ppm	1.6783 ppm	-0.0005 ppm	0.0681 ppm
Concentration per Run 2	-0.0006 ppm	2.4632 ppm	0.0008 ppm	0.0475 ppm	1.6585 ppm	0.0013 ppm	0.0678 ppm
Concentration per Run 3	-0.0011 ppm	2.4843 ppm	0.0012 ppm	0.0476 ppm	1.6480 ppm	-0.0007 ppm	0.0678 ppm
Concentration RSD	52.5 %	2.1 %	29.3 %	0.7 %	0.9 %	1,731.4 %	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	0.1497 ppm	101.2084 %	104.0747 %	88.7279 %	112.4370 %	117.8358 %	113.9972 %
Concentration per Run 1	0.1514 ppm	100.2559 %	104.6707 %	88.7797 %	112.0939 %	118.5563 %	114.2593 %
Concentration per Run 2	0.1485 ppm	101.6922 %	103.1724 %	88.6982 %	112.6567 %	116.8421 %	113.8119 %
Concentration per Run 3	0.1493 ppm	101.6772 %	104.3809 %	88.7059 %	112.5603 %	118.1089 %	113.9204 %
Concentration RSD	1.0 %	0.8 %	0.8 %	0.1 %	0.3 %	0.8 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474220-11D2 WG2010791
Analysis started at: 12/19/2024 9:55:56 AM
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	0.0014 ppm	46.9415 ppm	0.0366 ppm	0.0042 ppm	0.1983 ppm	0.0025 ppm	9.2965 ppm
Concentration per Run 1	0.0014 ppm	46.8167 ppm	0.0367 ppm	0.0053 ppm	0.1998 ppm	0.0025 ppm	9.3164 ppm
Concentration per Run 2	0.0014 ppm	46.8690 ppm	0.0372 ppm	0.0046 ppm	0.1982 ppm	0.0024 ppm	9.3351 ppm
Concentration per Run 3	0.0014 ppm	47.1387 ppm	0.0358 ppm	0.0028 ppm	0.1969 ppm	0.0026 ppm	9.2381 ppm
Concentration RSD	3.0 %	0.4 %	1.9 %	29.8 %	0.8 %	3.1 %	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	0.0326 ppm	0.0385 ppm	0.2183 ppm	0.2874 ppm	105.1700 ppm	5.2813 ppm	0.0625 ppm
Concentration per Run 1	0.0328 ppm	0.0391 ppm	0.2207 ppm	0.2906 ppm	106.3420 ppm	5.3722 ppm	0.0636 ppm
Concentration per Run 2	0.0326 ppm	0.0377 ppm	0.2184 ppm	0.2859 ppm	106.0655 ppm	5.2979 ppm	0.0614 ppm
Concentration per Run 3	0.0323 ppm	0.0387 ppm	0.2158 ppm	0.2858 ppm	103.1026 ppm	5.1739 ppm	0.0627 ppm
Concentration RSD	0.9 %	1.7 %	1.1 %	0.9 %	1.7 %	1.9 %	1.8 %

	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	18.4064 ppm	1.6896 ppm	0.0419 ppm	0.6187 ppm	0.0728 ppm	0.5193 ppm	0.0232 ppm
Concentration per Run 1	18.6274 ppm	1.7006 ppm	0.0413 ppm	0.6145 ppm	0.0737 ppm	0.5248 ppm	0.0234 ppm
Concentration per Run 2	18.3907 ppm	1.7050 ppm	0.0419 ppm	0.6150 ppm	0.0725 ppm	0.5192 ppm	0.0253 ppm
Concentration per Run 3	18.2011 ppm	1.6632 ppm	0.0426 ppm	0.6265 ppm	0.0724 ppm	0.5140 ppm	0.0209 ppm
Concentration RSD	1.2 %	1.4 %	1.5 %	1.1 %	1.0 %	1.0 %	9.5 %

	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	-0.0008 ppm	2.0141 ppm	0.0456 ppm	0.0617 ppm	2.3645 ppm	0.0014 ppm	0.1402 ppm
Concentration per Run 1	-0.0009 ppm	2.0454 ppm	0.0469 ppm	0.0623 ppm	2.3941 ppm	0.0020 ppm	0.1415 ppm
Concentration per Run 2	0.0004 ppm	1.9927 ppm	0.0447 ppm	0.0619 ppm	2.3609 ppm	0.0010 ppm	0.1402 ppm
Concentration per Run 3	-0.0019 ppm	2.0043 ppm	0.0454 ppm	0.0611 ppm	2.3385 ppm	0.0012 ppm	0.1388 ppm
Concentration RSD	140.1 %	1.4 %	2.4 %	0.9 %	1.2 %	40.3 %	1.0 %

	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	0.5198 ppm	101.0258 %	103.6299 %	86.1767 %	113.1265 %	118.6781 %	114.4851 %
Concentration per Run 1	0.5264 ppm	100.6163 %	103.1740 %	85.9713 %	113.6252 %	118.7386 %	114.7731 %
Concentration per Run 2	0.5193 ppm	101.2840 %	103.3485 %	86.1170 %	113.5628 %	118.6109 %	114.3457 %
Concentration per Run 3	0.5136 ppm	101.1770 %	104.3672 %	86.4416 %	112.1915 %	118.6847 %	114.3364 %
Concentration RSD	1.2 %	0.4 %	0.6 %	0.3 %	0.7 %	0.1 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474220-12D2 WG2010791
Analysis started at: 12/19/2024 10:00:20 AM
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	0.0006 ppm	39.4257 ppm	0.0178 ppm	0.0018 ppm	0.0914 ppm	0.0019 ppm	11.5837 ppm
Concentration per Run 1	0.0006 ppm	39.4006 ppm	0.0183 ppm	0.0014 ppm	0.0917 ppm	0.0020 ppm	11.5582 ppm
Concentration per Run 2	0.0006 ppm	39.6433 ppm	0.0183 ppm	0.0010 ppm	0.0909 ppm	0.0018 ppm	11.6391 ppm
Concentration per Run 3	0.0005 ppm	39.2333 ppm	0.0167 ppm	0.0030 ppm	0.0916 ppm	0.0019 ppm	11.5539 ppm
Concentration RSD	16.1 %	0.5 %	5.4 %	59.4 %	0.5 %	3.4 %	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	0.0372 ppm	0.0577 ppm	0.0820 ppm	90.3210 ppm	2.2501 ppm	0.0521 ppm
Concentration per Run 1	0.0003 ppm	0.0374 ppm	0.0580 ppm	0.0818 ppm	90.1785 ppm	2.2655 ppm	0.0530 ppm
Concentration per Run 2	0.0002 ppm	0.0351 ppm	0.0551 ppm	0.0777 ppm	90.1954 ppm	2.2244 ppm	0.0513 ppm
Concentration per Run 3	0.0003 ppm	0.0392 ppm	0.0601 ppm	0.0864 ppm	90.5892 ppm	2.2604 ppm	0.0520 ppm
Concentration RSD	25.8 %	5.5 %	4.3 %	5.3 %	0.3 %	1.0 %	1.6 %

	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	21.6919 ppm	1.4645 ppm	0.0008 ppm	0.4784 ppm	0.0680 ppm	0.0476 ppm	0.0027 ppm
Concentration per Run 1	21.8754 ppm	1.4583 ppm	0.0007 ppm	0.4795 ppm	0.0681 ppm	0.0484 ppm	0.0029 ppm
Concentration per Run 2	20.6110 ppm	1.4677 ppm	0.0010 ppm	0.4757 ppm	0.0650 ppm	0.0463 ppm	0.0026 ppm
Concentration per Run 3	22.5893 ppm	1.4675 ppm	0.0007 ppm	0.4799 ppm	0.0710 ppm	0.0481 ppm	0.0025 ppm
Concentration RSD	4.6 %	0.4 %	23.3 %	0.5 %	4.4 %	2.4 %	7.7 %

	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	-0.0016 ppm	1.9704 ppm	0.0015 ppm	0.0623 ppm	2.3635 ppm	0.0007 ppm	0.1121 ppm
Concentration per Run 1	-0.0027 ppm	1.9985 ppm	0.0017 ppm	0.0626 ppm	2.3736 ppm	0.0010 ppm	0.1127 ppm
Concentration per Run 2	0.0002 ppm	1.8581 ppm	0.0014 ppm	0.0619 ppm	2.2491 ppm	0.0003 ppm	0.1063 ppm
Concentration per Run 3	-0.0022 ppm	2.0545 ppm	0.0014 ppm	0.0625 ppm	2.4680 ppm	0.0009 ppm	0.1173 ppm
Concentration RSD	98.6 %	5.1 %	11.5 %	0.6 %	4.6 %	50.0 %	4.9 %

	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	0.2270 ppm	100.7743 %	103.9346 %	86.3834 %	110.6238 %	116.3699 %	112.7314 %
Concentration per Run 1	0.2302 ppm	100.2514 %	104.2951 %	85.8529 %	111.7657 %	116.4942 %	112.7945 %
Concentration per Run 2	0.2151 ppm	105.5332 %	103.7034 %	86.9284 %	116.3278 %	115.9608 %	113.2105 %
Concentration per Run 3	0.2357 ppm	96.5382 %	103.8055 %	86.3688 %	103.7780 %	116.6546 %	112.1893 %
Concentration RSD	4.7 %	4.5 %	0.3 %	0.6 %	5.7 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: CCV
Analysis started at: 12/19/2024 10:04:44 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	0.4967 ppm	0.4847 ppm	0.4779 ppm	0.4954 ppm	0.4833 ppm	0.5118 ppm	0.5080 ppm
Concentration per Run 1	0.5016 ppm	0.4790 ppm	0.4758 ppm	0.4982 ppm	0.4830 ppm	0.5118 ppm	0.5103 ppm
Concentration per Run 2	0.4946 ppm	0.4864 ppm	0.4757 ppm	0.4949 ppm	0.4871 ppm	0.5112 ppm	0.5046 ppm
Concentration per Run 3	0.4939 ppm	0.4888 ppm	0.4821 ppm	0.4931 ppm	0.4798 ppm	0.5124 ppm	0.5091 ppm
Recovery Percentage 1	99.342 %	96.948 %	95.572 %	99.083 %	96.660 %	102.356 %	101.605 %
Concentration RSD	0.9 %	1.1 %	0.8 %	0.5 %	0.8 %	0.1 %	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	0.5065 ppm	0.5179 ppm	0.4985 ppm	0.4962 ppm	0.5285 ppm	5.1462 ppm	0.4916 ppm
Concentration per Run 1	0.5138 ppm	0.5217 ppm	0.5043 ppm	0.4973 ppm	0.5309 ppm	5.1149 ppm	0.4893 ppm
Concentration per Run 2	0.5045 ppm	0.5171 ppm	0.4966 ppm	0.4951 ppm	0.5251 ppm	5.1661 ppm	0.4942 ppm
Concentration per Run 3	0.5012 ppm	0.5150 ppm	0.4946 ppm	0.4962 ppm	0.5296 ppm	5.1577 ppm	0.4912 ppm
Recovery Percentage 1	101.306 %	103.582 %	99.704 %	99.239 %	105.702 %	102.924 %	98.311 %
Concentration RSD	1.3 %	0.7 %	1.0 %	0.2 %	0.6 %	0.5 %	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	0.5096 ppm	0.4987 ppm	0.5024 ppm	10.0543 ppm	0.5150 ppm	0.4873 ppm	0.5094 ppm
Concentration per Run 1	0.5165 ppm	0.4989 ppm	0.5039 ppm	9.9830 ppm	0.5226 ppm	0.4884 ppm	0.5094 ppm
Concentration per Run 2	0.5049 ppm	0.4975 ppm	0.5005 ppm	10.1267 ppm	0.5128 ppm	0.4863 ppm	0.5087 ppm
Concentration per Run 3	0.5072 ppm	0.4997 ppm	0.5029 ppm	10.0533 ppm	0.5097 ppm	0.4872 ppm	0.5101 ppm
Recovery Percentage 1	101.910 %	99.744 %	100.485 %	100.543 %	103.005 %	97.457 %	101.880 %
Concentration RSD	1.2 %	0.2 %	0.4 %	0.7 %	1.3 %	0.2 %	0.1 %

	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	0.4838 ppm	5.5893 ppm	0.5296 ppm	0.5140 ppm	0.5024 ppm	0.4881 ppm	0.4985 ppm
Concentration per Run 1	0.4824 ppm	5.6268 ppm	0.5369 ppm	0.5128 ppm	0.5080 ppm	0.4885 ppm	0.5022 ppm
Concentration per Run 2	0.4849 ppm	5.5726 ppm	0.5281 ppm	0.5141 ppm	0.4995 ppm	0.4863 ppm	0.4969 ppm
Concentration per Run 3	0.4842 ppm	5.5685 ppm	0.5239 ppm	0.5151 ppm	0.4997 ppm	0.4896 ppm	0.4965 ppm
Recovery Percentage 1	96.763 %	106.463 %	105.927 %	102.802 %	100.482 %	97.624 %	99.707 %
Concentration RSD	0.3 %	0.6 %	1.3 %	0.2 %	1.0 %	0.3 %	0.6 %

	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	0.5088 ppm	100.1663 %	102.0352 %	94.7604 %	96.6980 %	100.3086 %	98.5367 %
Concentration per Run 1	0.5169 ppm	99.2931 %	101.8446 %	94.2924 %	96.3191 %	100.0137 %	98.2603 %
Concentration per Run 2	0.5063 ppm	100.4894 %	102.1695 %	95.3690 %	97.2776 %	100.6948 %	99.1272 %
Concentration per Run 3	0.5032 ppm	100.7164 %	102.0916 %	94.6199 %	96.4973 %	100.2171 %	98.2227 %
Recovery Percentage 1	101.762 %						
Concentration RSD	1.4 %	0.8 %	0.2 %	0.6 %	0.5 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: CCB
Analysis started at: 12/19/2024 10:16:37 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	0.0005 ppm	0.0013 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0011 ppm
Concentration per Run 1	0.0001 ppm	0.0029 ppm	0.0016 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 2	0.0001 ppm	-0.0009 ppm	0.0008 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0012 ppm
Concentration per Run 3	0.0002 ppm	-0.0006 ppm	0.0014 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0023 ppm
Recovery Percentage 1	2.079 %	0.461 %	25.644 %	1.297 %	-0.261 %	0.374 %	1.121 %
Concentration RSD	53.9 %	460.9 %	32.9 %	44.2 %	52.3 %	140.5 %	109.8 %

	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	0.0000 ppm	0.0027 ppm	-0.0026 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0034 ppm	0.0003 ppm	0.0003 ppm
Concentration per Run 2	0.0001 ppm	0.0003 ppm	-0.0005 ppm	0.0001 ppm	0.0027 ppm	-0.0028 ppm	0.0005 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0021 ppm	-0.0052 ppm	-0.0002 ppm
Recovery Percentage 1	0.493 %	0.371 %	-1.879 %	-0.089 %	5.470 %	-0.103 %	2.182 %
Concentration RSD	142.4 %	538.6 %	175.8 %	1,194.1 %	23.4 %	107.3 %	163.3 %

	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	-0.0004 ppm	0.0001 ppm	-0.0003 ppm	-0.0042 ppm	0.0001 ppm	-0.0002 ppm	0.0020 ppm
Concentration per Run 1	-0.0001 ppm	0.0000 ppm	-0.0004 ppm	-0.0036 ppm	0.0000 ppm	-0.0004 ppm	0.0034 ppm
Concentration per Run 2	-0.0006 ppm	0.0001 ppm	-0.0002 ppm	-0.0040 ppm	-0.0002 ppm	-0.0007 ppm	0.0031 ppm
Concentration per Run 3	-0.0004 ppm	0.0001 ppm	-0.0002 ppm	-0.0048 ppm	0.0005 ppm	0.0004 ppm	-0.0004 ppm
Recovery Percentage 1	-0.363 %	0.698 %	-0.550 %	-0.208 %	0.446 %	-2.230 %	4.041 %
Concentration RSD	69.9 %	74.9 %	43.4 %	15.1 %	317.8 %	262.5 %	103.4 %

	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	-0.0018 ppm	-0.0015 ppm	-0.0008 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 1	-0.0009 ppm	-0.0013 ppm	-0.0009 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 2	-0.0020 ppm	-0.0015 ppm	-0.0003 ppm	0.0000 ppm	0.0001 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 3	-0.0026 ppm	-0.0017 ppm	-0.0013 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm
Recovery Percentage 1	-18.379 %	-0.295 %	-1.664 %	0.395 %	0.211 %	-0.628 %	0.663 %
Concentration RSD	47.1 %	14.5 %	58.6 %	56.9 %	329.2 %	194.1 %	192.7 %

	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	0.0015 ppm	96.9855 %	99.9146 %	96.0659 %	99.4538 %	100.9087 %	100.7100 %
Concentration per Run 1	0.0015 ppm	95.7285 %	99.4216 %	95.2724 %	99.0839 %	100.6876 %	100.5338 %
Concentration per Run 2	0.0015 ppm	97.1504 %	101.3101 %	96.4708 %	99.6126 %	102.3200 %	101.0065 %
Concentration per Run 3	0.0016 ppm	98.0774 %	99.0121 %	96.4543 %	99.6648 %	99.7183 %	100.5896 %
Recovery Percentage 1	30.026 %						
Concentration RSD	2.8 %	1.2 %	1.2 %	0.7 %	0.3 %	1.3 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2010931-1 WG2010931
Analysis started at: 12/19/2024 10:28:52 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	0.0001 ppm	0.0216 ppm	0.0003 ppm	0.0015 ppm	0.0002 ppm	0.0000 ppm	0.0361 ppm
Concentration per Run 1	0.0000 ppm	0.0195 ppm	-0.0012 ppm	0.0014 ppm	0.0002 ppm	0.0001 ppm	0.0370 ppm
Concentration per Run 2	0.0000 ppm	0.0224 ppm	0.0007 ppm	0.0013 ppm	0.0002 ppm	0.0000 ppm	0.0355 ppm
Concentration per Run 3	0.0002 ppm	0.0228 ppm	0.0014 ppm	0.0018 ppm	0.0002 ppm	0.0000 ppm	0.0356 ppm
Recovery Percentage 1	1.119 %	21.569 %	6.133 %	4.990 %	2.055 %	0.592 %	36.052 %
Concentration RSD	205.6 %	8.4 %	430.5 %	20.6 %	19.8 %	69.8 %	2.3 %

	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	0.0005 ppm	0.0004 ppm	0.0520 ppm	0.0024 ppm	0.0003 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0008 ppm	0.0004 ppm	0.0524 ppm	0.0120 ppm	-0.0001 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0004 ppm	0.0518 ppm	-0.0018 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0517 ppm	-0.0029 ppm	0.0003 ppm
Recovery Percentage 1	0.869 %	-0.099 %	5.032 %	3.813 %	103.937 %	0.098 %	2.561 %
Concentration RSD	86.6 %	989.0 %	44.2 %	14.7 %	0.8 %	339.8 %	126.3 %

	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	0.0109 ppm	0.0008 ppm	-0.0004 ppm	0.0039 ppm	0.0005 ppm	-0.0002 ppm	0.0014 ppm
Concentration per Run 1	0.0107 ppm	0.0009 ppm	-0.0003 ppm	0.0046 ppm	0.0006 ppm	0.0003 ppm	0.0021 ppm
Concentration per Run 2	0.0109 ppm	0.0008 ppm	-0.0006 ppm	0.0012 ppm	0.0005 ppm	0.0001 ppm	0.0004 ppm
Concentration per Run 3	0.0111 ppm	0.0008 ppm	-0.0004 ppm	0.0059 ppm	0.0003 ppm	-0.0009 ppm	0.0017 ppm
Recovery Percentage 1	10.927 %	8.300 %	-0.796 %	0.195 %	1.917 %	-1.704 %	2.808 %
Concentration RSD	1.6 %	8.4 %	40.1 %	62.2 %	42.1 %	356.7 %	61.3 %

	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	0.0003 ppm	0.0188 ppm	-0.0005 ppm	0.0001 ppm	0.0011 ppm	-0.0013 ppm	0.0001 ppm
Concentration per Run 1	0.0013 ppm	0.0190 ppm	-0.0009 ppm	0.0001 ppm	0.0011 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 2	0.0011 ppm	0.0182 ppm	-0.0003 ppm	0.0001 ppm	0.0011 ppm	-0.0021 ppm	0.0000 ppm
Concentration per Run 3	-0.0014 ppm	0.0191 ppm	-0.0003 ppm	0.0001 ppm	0.0011 ppm	-0.0015 ppm	0.0002 ppm
Recovery Percentage 1	3.378 %	3.752 %	-0.957 %	1.148 %	11.029 %	-6.295 %	1.064 %
Concentration RSD	446.7 %	2.7 %	67.9 %	12.2 %	3.6 %	78.1 %	64.0 %

	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	0.0031 ppm	104.3489 %	102.8345 %	102.6833 %	101.7093 %	101.8404 %	102.3117 %
Concentration per Run 1	0.0030 ppm	103.4237 %	103.1876 %	102.7008 %	101.4525 %	102.4827 %	102.5625 %
Concentration per Run 2	0.0031 ppm	104.6764 %	102.6115 %	102.5493 %	101.9654 %	101.4052 %	102.1612 %
Concentration per Run 3	0.0031 ppm	104.9468 %	102.7045 %	102.7997 %	101.7101 %	101.6334 %	102.2113 %
Recovery Percentage 1	61.524 %						
Concentration RSD	1.3 %	0.8 %	0.3 %	0.1 %	0.3 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2010931-2D2 WG2010931
Analysis started at: 12/19/2024 10:33:34 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	0.0494 ppm	2.0051 ppm	0.1182 ppm	0.9721 ppm	1.8974 ppm	0.0499 ppm	10.0362 ppm
Concentration per Run 1	0.0501 ppm	2.0082 ppm	0.1182 ppm	0.9868 ppm	1.8969 ppm	0.0500 ppm	10.0597 ppm
Concentration per Run 2	0.0496 ppm	2.0147 ppm	0.1178 ppm	0.9718 ppm	1.9000 ppm	0.0499 ppm	10.0367 ppm
Concentration per Run 3	0.0485 ppm	1.9923 ppm	0.1185 ppm	0.9576 ppm	1.8951 ppm	0.0499 ppm	10.0121 ppm
Concentration RSD	1.7 %	0.6 %	0.3 %	1.5 %	0.1 %	0.2 %	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	0.0532 ppm	0.5029 ppm	0.1986 ppm	0.2519 ppm	1.0281 ppm	10.1550 ppm	0.0004 ppm
Concentration per Run 1	0.0540 ppm	0.5093 ppm	0.2010 ppm	0.2548 ppm	1.0314 ppm	10.1963 ppm	0.0006 ppm
Concentration per Run 2	0.0533 ppm	0.5039 ppm	0.1980 ppm	0.2523 ppm	1.0238 ppm	10.1738 ppm	0.0006 ppm
Concentration per Run 3	0.0522 ppm	0.4955 ppm	0.1968 ppm	0.2487 ppm	1.0290 ppm	10.0948 ppm	0.0000 ppm
Concentration RSD	1.6 %	1.4 %	1.1 %	1.2 %	0.4 %	0.5 %	83.4 %

	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	10.2485 ppm	0.4878 ppm	1.0290 ppm	9.9850 ppm	0.4889 ppm	0.5280 ppm	0.4975 ppm
Concentration per Run 1	10.3859 ppm	0.4885 ppm	1.0357 ppm	10.0628 ppm	0.4935 ppm	0.5299 ppm	0.5047 ppm
Concentration per Run 2	10.2352 ppm	0.4884 ppm	1.0292 ppm	10.0444 ppm	0.4907 ppm	0.5260 ppm	0.4963 ppm
Concentration per Run 3	10.1245 ppm	0.4865 ppm	1.0222 ppm	9.8477 ppm	0.4824 ppm	0.5281 ppm	0.4914 ppm
Concentration RSD	1.3 %	0.2 %	0.7 %	1.2 %	1.2 %	0.4 %	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	0.1148 ppm	0.8797 ppm	1.0099 ppm	0.9742 ppm	1.0158 ppm	0.1194 ppm	0.5053 ppm
Concentration per Run 1	0.1172 ppm	0.8935 ppm	1.0226 ppm	0.9731 ppm	1.0279 ppm	0.1202 ppm	0.5114 ppm
Concentration per Run 2	0.1129 ppm	0.8789 ppm	1.0133 ppm	0.9784 ppm	1.0139 ppm	0.1192 ppm	0.5041 ppm
Concentration per Run 3	0.1143 ppm	0.8667 ppm	0.9939 ppm	0.9710 ppm	1.0056 ppm	0.1189 ppm	0.5004 ppm
Concentration RSD	1.9 %	1.5 %	1.4 %	0.4 %	1.1 %	0.6 %	1.1 %

	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	0.4909 ppm	99.5427 %	101.7892 %	90.8398 %	95.7866 %	99.6923 %	97.1177 %
Concentration per Run 1	0.4968 ppm	98.4870 %	102.2721 %	90.4100 %	95.7684 %	100.0016 %	96.7167 %
Concentration per Run 2	0.4907 ppm	99.6792 %	101.5752 %	91.3725 %	95.7537 %	99.9525 %	97.7401 %
Concentration per Run 3	0.4853 ppm	100.4619 %	101.5204 %	90.7370 %	95.8377 %	99.1229 %	96.8964 %
Concentration RSD	1.2 %	1.0 %	0.4 %	0.5 %	0.0 %	0.5 %	0.6 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473276-01D10 WG2010931
Analysis started at: 12/19/2024 10:37:59 AM
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	0.0052 ppm	42.7335 ppm	0.1666 ppm	0.4404 ppm	1.0996 ppm	0.0146 ppm	40.6893 ppm
Concentration per Run 1	0.0061 ppm	42.7122 ppm	0.1665 ppm	0.4412 ppm	1.1004 ppm	0.0146 ppm	40.7129 ppm
Concentration per Run 2	0.0053 ppm	42.5442 ppm	0.1692 ppm	0.4450 ppm	1.0968 ppm	0.0145 ppm	40.5278 ppm
Concentration per Run 3	0.0043 ppm	42.9441 ppm	0.1641 ppm	0.4349 ppm	1.1016 ppm	0.0145 ppm	40.8272 ppm
Concentration RSD	17.0 %	0.5 %	1.5 %	1.2 %	0.2 %	0.3 %	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	0.0012 ppm	0.7077 ppm	2.2140 ppm	10.7612 ppm	480.8806 [SIC 500]	6.7735 ppm	0.0261 ppm
Concentration per Run 1	0.0014 ppm	0.7062 ppm	2.2216 ppm	10.7462 ppm	482.2179 ppm	6.7790 ppm	0.0269 ppm
Concentration per Run 2	0.0011 ppm	0.7134 ppm	2.2194 ppm	10.8696 ppm	480.6720 ppm	6.7731 ppm	0.0258 ppm
Concentration per Run 3	0.0010 ppm	0.7033 ppm	2.2012 ppm	10.6679 ppm	479.7520 ppm	6.7683 ppm	0.0257 ppm
Concentration RSD	19.1 %	0.7 %	0.5 %	0.9 %	0.3 %	0.1 %	2.4 %

	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	14.6227 ppm	4.9806 ppm	2.0255 ppm	9.9426 ppm	0.5221 ppm	0.3567 ppm	0.0470 ppm
Concentration per Run 1	14.6700 ppm	4.9900 ppm	1.9970 ppm	9.9172 ppm	0.5230 ppm	0.3567 ppm	0.0477 ppm
Concentration per Run 2	14.6412 ppm	4.9619 ppm	2.0416 ppm	9.9161 ppm	0.5248 ppm	0.3565 ppm	0.0481 ppm
Concentration per Run 3	14.5567 ppm	4.9899 ppm	2.0381 ppm	9.9946 ppm	0.5187 ppm	0.3570 ppm	0.0452 ppm
Concentration RSD	0.4 %	0.3 %	1.2 %	0.5 %	0.6 %	0.1 %	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	-0.0031 ppm	2.0231 ppm	1.5127 ppm	0.3592 ppm	0.6742 ppm	-0.0057 ppm	0.0890 ppm
Concentration per Run 1	-0.0041 ppm	2.0301 ppm	1.5106 ppm	0.3600 ppm	0.6755 ppm	-0.0063 ppm	0.0884 ppm
Concentration per Run 2	-0.0028 ppm	2.0377 ppm	1.5316 ppm	0.3583 ppm	0.6756 ppm	-0.0057 ppm	0.0889 ppm
Concentration per Run 3	-0.0025 ppm	2.0016 ppm	1.4959 ppm	0.3593 ppm	0.6715 ppm	-0.0050 ppm	0.0898 ppm
Concentration RSD	26.2 %	0.9 %	1.2 %	0.2 %	0.3 %	11.6 %	0.8 %

	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	15.3225 ppm	98.0422 %	100.3022 %	78.2763 %	98.7297 %	105.0835 %	98.0196 %
Concentration per Run 1	15.3686 ppm	98.0909 %	100.1459 %	77.9616 %	99.1034 %	104.6577 %	97.8285 %
Concentration per Run 2	15.4121 ppm	97.7083 %	100.8228 %	78.7254 %	98.5510 %	105.9117 %	98.1539 %
Concentration per Run 3	15.1868 ppm	98.3275 %	99.9381 %	78.1420 %	98.5347 %	104.6811 %	98.0764 %
Concentration RSD	0.8 %	0.3 %	0.5 %	0.5 %	0.3 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474378-02D2 WG2010931
Analysis started at: 12/19/2024 10:42:23 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	0.0024 ppm	70.5289 ppm	0.0386 ppm	0.0322 ppm	1.0114 ppm	0.0041 ppm	26.7487 ppm
Concentration per Run 1	0.0027 ppm	70.6304 ppm	0.0384 ppm	0.0335 ppm	1.0172 ppm	0.0040 ppm	26.8127 ppm
Concentration per Run 2	0.0020 ppm	71.0526 ppm	0.0384 ppm	0.0315 ppm	1.0115 ppm	0.0041 ppm	26.9781 ppm
Concentration per Run 3	0.0026 ppm	69.9037 ppm	0.0391 ppm	0.0317 ppm	1.0056 ppm	0.0040 ppm	26.4553 ppm
Concentration RSD	15.4 %	0.8 %	1.0 %	3.4 %	0.6 %	1.5 %	1.0 %

	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	0.0021 ppm	0.0643 ppm	0.1336 ppm	0.3719 ppm	147.9974 ppm	6.1123 ppm	0.1052 ppm
Concentration per Run 1	0.0022 ppm	0.0652 ppm	0.1344 ppm	0.3760 ppm	149.1085 ppm	6.1697 ppm	0.1064 ppm
Concentration per Run 2	0.0018 ppm	0.0638 ppm	0.1334 ppm	0.3727 ppm	147.6384 ppm	6.0475 ppm	0.1044 ppm
Concentration per Run 3	0.0021 ppm	0.0639 ppm	0.1330 ppm	0.3669 ppm	147.2453 ppm	6.1198 ppm	0.1048 ppm
Concentration RSD	10.8 %	1.2 %	0.5 %	1.2 %	0.7 %	1.0 %	1.0 %

	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	20.2428 ppm	3.5628 ppm	0.0108 ppm	1.0519 ppm	0.1253 ppm	3.0882 ppm	0.0097 ppm
Concentration per Run 1	20.3964 ppm	3.5897 ppm	0.0109 ppm	1.0524 ppm	0.1257 ppm	3.1027 ppm	0.0088 ppm
Concentration per Run 2	20.1827 ppm	3.5549 ppm	0.0112 ppm	1.0608 ppm	0.1249 ppm	3.1047 ppm	0.0103 ppm
Concentration per Run 3	20.1493 ppm	3.5439 ppm	0.0103 ppm	1.0425 ppm	0.1252 ppm	3.0571 ppm	0.0101 ppm
Concentration RSD	0.7 %	0.7 %	4.4 %	0.9 %	0.3 %	0.9 %	8.2 %

	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	2.0618 ppm	0.1982 ppm	0.1308 ppm	1.5196 ppm	-0.0004 ppm	0.2009 ppm
Concentration per Run 1	0.0005 ppm	2.0730 ppm	0.1983 ppm	0.1316 ppm	1.5315 ppm	0.0003 ppm	0.2021 ppm
Concentration per Run 2	0.0023 ppm	2.0622 ppm	0.1983 ppm	0.1306 ppm	1.5166 ppm	-0.0011 ppm	0.2017 ppm
Concentration per Run 3	0.0007 ppm	2.0501 ppm	0.1981 ppm	0.1302 ppm	1.5106 ppm	-0.0003 ppm	0.1988 ppm
Concentration RSD	82.4 %	0.6 %	0.1 %	0.6 %	0.7 %	201.9 %	0.9 %

	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	0.9559 ppm	102.8449 %	106.0888 %	86.0644 %	116.6299 %	123.8471 %	117.2106 %
Concentration per Run 1	0.9572 ppm	102.7974 %	106.2051 %	86.1494 %	117.3413 %	124.4614 %	117.7054 %
Concentration per Run 2	0.9505 ppm	103.0310 %	105.7753 %	85.6830 %	117.0147 %	122.6631 %	117.0045 %
Concentration per Run 3	0.9598 ppm	102.7063 %	106.2862 %	86.3608 %	115.5336 %	124.4168 %	116.9220 %
Concentration RSD	0.5 %	0.2 %	0.3 %	0.4 %	0.8 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474378-01D2 WG2010931
Analysis started at: 12/19/2024 10:46:48 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	0.0008 ppm	76.3938 ppm	0.0298 ppm	0.0218 ppm	0.8388 ppm	0.0048 ppm	48.1055 ppm
Concentration per Run 1	0.0009 ppm	76.5324 ppm	0.0295 ppm	0.0218 ppm	0.8413 ppm	0.0048 ppm	47.9652 ppm
Concentration per Run 2	0.0006 ppm	76.2599 ppm	0.0292 ppm	0.0214 ppm	0.8379 ppm	0.0048 ppm	48.5873 ppm
Concentration per Run 3	0.0008 ppm	76.3892 ppm	0.0308 ppm	0.0221 ppm	0.8370 ppm	0.0048 ppm	47.7639 ppm
Concentration RSD	18.4 %	0.2 %	2.9 %	1.6 %	0.3 %	0.3 %	0.9 %

	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	0.0008 ppm	0.0696 ppm	0.1447 ppm	0.2558 ppm	157.6354 ppm	6.5785 ppm	0.1271 ppm
Concentration per Run 1	0.0008 ppm	0.0700 ppm	0.1450 ppm	0.2583 ppm	157.4176 ppm	6.5879 ppm	0.1283 ppm
Concentration per Run 2	0.0006 ppm	0.0695 ppm	0.1445 ppm	0.2554 ppm	158.4418 ppm	6.5022 ppm	0.1247 ppm
Concentration per Run 3	0.0008 ppm	0.0694 ppm	0.1447 ppm	0.2537 ppm	157.0470 ppm	6.6454 ppm	0.1283 ppm
Concentration RSD	14.1 %	0.5 %	0.2 %	0.9 %	0.5 %	1.1 %	1.6 %

	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	26.2010 ppm	3.8536 ppm	0.0044 ppm	0.9368 ppm	0.1317 ppm	1.5868 ppm	0.0069 ppm
Concentration per Run 1	26.3868 ppm	3.8494 ppm	0.0041 ppm	0.9337 ppm	0.1330 ppm	1.6070 ppm	0.0071 ppm
Concentration per Run 2	26.1054 ppm	3.8797 ppm	0.0046 ppm	0.9290 ppm	0.1311 ppm	1.5822 ppm	0.0078 ppm
Concentration per Run 3	26.1106 ppm	3.8317 ppm	0.0044 ppm	0.9478 ppm	0.1309 ppm	1.5714 ppm	0.0060 ppm
Concentration RSD	0.6 %	0.6 %	6.9 %	1.0 %	0.8 %	1.1 %	13.2 %

	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	1.5162 ppm	0.0208 ppm	0.1324 ppm	1.4485 ppm	-0.0004 ppm	0.1995 ppm
Concentration per Run 1	-0.0017 ppm	1.5379 ppm	0.0203 ppm	0.1326 ppm	1.4591 ppm	-0.0007 ppm	0.2009 ppm
Concentration per Run 2	0.0003 ppm	1.5172 ppm	0.0208 ppm	0.1326 ppm	1.4438 ppm	0.0002 ppm	0.1985 ppm
Concentration per Run 3	0.0008 ppm	1.4934 ppm	0.0213 ppm	0.1320 ppm	1.4426 ppm	-0.0008 ppm	0.1990 ppm
Concentration RSD	706.4 %	1.5 %	2.5 %	0.3 %	0.6 %	128.2 %	0.6 %

	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	0.7402 ppm	102.1985 %	106.3775 %	84.4212 %	118.6643 %	126.7505 %	118.6359 %
Concentration per Run 1	0.7454 ppm	102.1076 %	107.2645 %	83.6186 %	119.0751 %	127.3140 %	118.2963 %
Concentration per Run 2	0.7356 ppm	102.3806 %	105.3250 %	84.6408 %	118.7777 %	126.0404 %	118.9696 %
Concentration per Run 3	0.7396 ppm	102.1075 %	106.5428 %	85.0042 %	118.1401 %	126.8971 %	118.6416 %
Concentration RSD	0.7 %	0.2 %	0.9 %	0.9 %	0.4 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2010931-3D2 WG2010931
Analysis started at: 12/19/2024 10:51:13 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	0.0483 ppm	82.2438 ppm	0.1199 ppm	0.8305 ppm	2.6811 ppm	0.0516 ppm	57.8066 ppm
Concentration per Run 1	0.0485 ppm	82.3118 ppm	0.1192 ppm	0.8335 ppm	2.6859 ppm	0.0518 ppm	57.8836 ppm
Concentration per Run 2	0.0485 ppm	82.6727 ppm	0.1194 ppm	0.8320 ppm	2.6954 ppm	0.0516 ppm	57.6519 ppm
Concentration per Run 3	0.0480 ppm	81.7467 ppm	0.1211 ppm	0.8261 ppm	2.6618 ppm	0.0515 ppm	57.8842 ppm
Concentration RSD	0.5 %	0.6 %	0.9 %	0.5 %	0.6 %	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	0.0483 ppm	0.5156 ppm	0.3387 ppm	0.4920 ppm	152.6116 ppm	17.7642 ppm	0.1314 ppm
Concentration per Run 1	0.0484 ppm	0.5196 ppm	0.3402 ppm	0.4967 ppm	153.2244 ppm	17.7517 ppm	0.1322 ppm
Concentration per Run 2	0.0485 ppm	0.5167 ppm	0.3395 ppm	0.4899 ppm	152.3728 ppm	17.9905 ppm	0.1327 ppm
Concentration per Run 3	0.0479 ppm	0.5106 ppm	0.3363 ppm	0.4895 ppm	152.2376 ppm	17.5505 ppm	0.1292 ppm
Concentration RSD	0.8 %	0.9 %	0.6 %	0.8 %	0.4 %	1.2 %	1.4 %

	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	33.2777 ppm	4.6842 ppm	0.9467 ppm	11.0686 ppm	0.5711 ppm	2.0945 ppm	0.4611 ppm
Concentration per Run 1	33.4750 ppm	4.6967 ppm	0.9440 ppm	11.0634 ppm	0.5733 ppm	2.0988 ppm	0.4641 ppm
Concentration per Run 2	33.2796 ppm	4.6698 ppm	0.9494 ppm	11.2375 ppm	0.5718 ppm	2.1031 ppm	0.4579 ppm
Concentration per Run 3	33.0785 ppm	4.6861 ppm	0.9467 ppm	10.9049 ppm	0.5682 ppm	2.0816 ppm	0.4612 ppm
Concentration RSD	0.6 %	0.3 %	0.3 %	1.5 %	0.5 %	0.5 %	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	0.0823 ppm	2.7246 ppm	0.9176 ppm	1.0618 ppm	2.3662 ppm	**0.1152 ppm**	0.6701 ppm
Concentration per Run 1	0.0827 ppm	2.7362 ppm	0.9263 ppm	1.0640 ppm	2.3775 ppm	0.1150 ppm	0.6750 ppm
Concentration per Run 2	0.0836 ppm	2.7227 ppm	0.9177 ppm	1.0672 ppm	2.3676 ppm	0.1152 ppm	0.6709 ppm
Concentration per Run 3	0.0805 ppm	2.7148 ppm	0.9087 ppm	1.0540 ppm	2.3534 ppm	0.1154 ppm	0.6644 ppm
Concentration RSD	2.0 %	0.4 %	1.0 %	0.6 %	0.5 %	0.2 %	0.8 %

	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	1.1612 ppm	101.6264 %	106.2798 %	81.8125 %	117.4753 %	127.3214 %	118.1180 %
Concentration per Run 1	1.1692 ppm	101.5005 %	106.3560 %	81.8578 %	118.0106 %	127.8993 %	118.5439 %
Concentration per Run 2	1.1663 ppm	101.7930 %	106.6415 %	81.4342 %	117.6470 %	127.2716 %	117.4971 %
Concentration per Run 3	1.1481 ppm	101.5857 %	105.8420 %	82.1456 %	116.7683 %	126.7933 %	118.3130 %
Concentration RSD	1.0 %	0.1 %	0.4 %	0.4 %	0.5 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2010931-4D2 WG2010931
Analysis started at: 12/19/2024 10:55:38 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	0.0007 ppm	78.2885 ppm	0.0283 ppm	0.0264 ppm	0.9877 ppm	0.0049 ppm	50.4499 ppm
Concentration per Run 1	0.0012 ppm	77.8155 ppm	0.0273 ppm	0.0264 ppm	0.9863 ppm	0.0049 ppm	50.5958 ppm
Concentration per Run 2	0.0004 ppm	77.7080 ppm	0.0300 ppm	0.0265 ppm	0.9819 ppm	0.0049 ppm	50.3603 ppm
Concentration per Run 3	0.0006 ppm	79.3420 ppm	0.0276 ppm	0.0263 ppm	0.9951 ppm	0.0049 ppm	50.3936 ppm
Concentration RSD	55.8 %	1.2 %	5.4 %	0.5 %	0.7 %	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	0.0008 ppm	0.0664 ppm	0.1497 ppm	0.2446 ppm	161.1486 ppm	7.1632 ppm	0.1298 ppm
Concentration per Run 1	0.0009 ppm	0.0677 ppm	0.1521 ppm	0.2467 ppm	163.6967 ppm	7.1359 ppm	0.1280 ppm
Concentration per Run 2	0.0006 ppm	0.0659 ppm	0.1496 ppm	0.2431 ppm	160.0123 ppm	7.0877 ppm	0.1284 ppm
Concentration per Run 3	0.0010 ppm	0.0656 ppm	0.1473 ppm	0.2440 ppm	159.7368 ppm	7.2660 ppm	0.1330 ppm
Concentration RSD	23.3 %	1.7 %	1.6 %	0.8 %	1.4 %	1.3 %	2.1 %

	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	24.0839 ppm	4.6704 ppm	0.0050 ppm	1.0059 ppm	0.1324 ppm	1.5876 ppm	0.0052 ppm
Concentration per Run 1	24.4279 ppm	4.7391 ppm	0.0053 ppm	0.9828 ppm	0.1338 ppm	1.5880 ppm	0.0079 ppm
Concentration per Run 2	24.0576 ppm	4.6489 ppm	0.0046 ppm	0.9927 ppm	0.1327 ppm	1.5988 ppm	0.0043 ppm
Concentration per Run 3	23.7662 ppm	4.6233 ppm	0.0049 ppm	1.0421 ppm	0.1307 ppm	1.5761 ppm	0.0035 ppm
Concentration RSD	1.4 %	1.3 %	7.0 %	3.2 %	1.2 %	0.7 %	44.7 %

	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	0.0000 ppm	1.9062 ppm	0.0198 ppm	0.1412 ppm	1.6516 ppm	-0.0011 ppm	0.2019 ppm
Concentration per Run 1	-0.0015 ppm	1.9223 ppm	0.0191 ppm	0.1413 ppm	1.6696 ppm	-0.0017 ppm	0.2039 ppm
Concentration per Run 2	0.0007 ppm	1.9105 ppm	0.0199 ppm	0.1398 ppm	1.6479 ppm	-0.0001 ppm	0.2020 ppm
Concentration per Run 3	0.0008 ppm	1.8858 ppm	0.0202 ppm	0.1424 ppm	1.6372 ppm	-0.0016 ppm	0.1998 ppm
Concentration RSD	329,573.6 %	1.0 %	2.8 %	0.9 %	1.0 %	80.7 %	1.0 %

	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	0.7569 ppm	102.4757 %	105.9573 %	84.7232 %	118.7341 %	126.3724 %	119.4844 %
Concentration per Run 1	0.7738 ppm	101.7966 %	105.6651 %	84.7473 %	118.5847 %	126.8813 %	119.2507 %
Concentration per Run 2	0.7582 ppm	102.7592 %	105.9444 %	84.4087 %	119.1651 %	125.5060 %	119.4207 %
Concentration per Run 3	0.7386 ppm	102.8713 %	106.2625 %	85.0137 %	118.4524 %	126.7299 %	119.7817 %
Concentration RSD	2.3 %	0.6 %	0.3 %	0.4 %	0.3 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2010931-5D2 WG2010931
Analysis started at: 12/19/2024 11:00:04 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	0.0504 ppm	73.4947 ppm	0.1266 ppm	0.9585 ppm	2.7212 ppm	0.0552 ppm	55.2303 ppm
Concentration per Run 1	0.0513 ppm	74.0515 ppm	0.1256 ppm	0.9692 ppm	2.7221 ppm	0.0551 ppm	55.7976 ppm
Concentration per Run 2	0.0503 ppm	72.9574 ppm	0.1271 ppm	0.9577 ppm	2.7280 ppm	0.0556 ppm	55.2111 ppm
Concentration per Run 3	0.0497 ppm	73.4752 ppm	0.1271 ppm	0.9484 ppm	2.7134 ppm	0.0548 ppm	54.6823 ppm
Concentration RSD	1.5 %	0.7 %	0.7 %	1.1 %	0.3 %	0.7 %	1.0 %

	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	0.0497 ppm	0.5401 ppm	0.3244 ppm	0.4951 ppm	148.0974 ppm	17.3020 ppm	0.1171 ppm
Concentration per Run 1	0.0500 ppm	0.5445 ppm	0.3271 ppm	0.5007 ppm	147.6205 ppm	17.0484 ppm	0.1182 ppm
Concentration per Run 2	0.0495 ppm	0.5378 ppm	0.3221 ppm	0.4956 ppm	149.5813 ppm	17.3185 ppm	0.1158 ppm
Concentration per Run 3	0.0497 ppm	0.5380 ppm	0.3241 ppm	0.4891 ppm	147.0903 ppm	17.5390 ppm	0.1173 ppm
Concentration RSD	0.5 %	0.7 %	0.8 %	1.2 %	0.9 %	1.4 %	1.0 %

	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	33.4343 ppm	4.0788 ppm	0.9658 ppm	12.0600 ppm	0.5966 ppm	2.0215 ppm	0.4362 ppm
Concentration per Run 1	33.6099 ppm	4.0670 ppm	0.9628 ppm	12.1761 ppm	0.6000 ppm	2.0212 ppm	0.4368 ppm
Concentration per Run 2	33.2198 ppm	4.1044 ppm	0.9606 ppm	11.8018 ppm	0.5913 ppm	2.0121 ppm	0.4360 ppm
Concentration per Run 3	33.4732 ppm	4.0650 ppm	0.9739 ppm	12.2022 ppm	0.5984 ppm	2.0312 ppm	0.4359 ppm
Concentration RSD	0.6 %	0.5 %	0.7 %	1.9 %	0.8 %	0.5 %	0.1 %

	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	0.0962 ppm	2.4717 ppm	0.9764 ppm	1.1362 ppm	2.3096 ppm	0.1230 ppm	0.6794 ppm
Concentration per Run 1	0.0949 ppm	2.4873 ppm	0.9858 ppm	1.1308 ppm	2.3234 ppm	0.1241 ppm	0.6820 ppm
Concentration per Run 2	0.0968 ppm	2.4742 ppm	0.9685 ppm	1.1394 ppm	2.3005 ppm	0.1223 ppm	0.6764 ppm
Concentration per Run 3	0.0970 ppm	2.4538 ppm	0.9751 ppm	1.1383 ppm	2.3048 ppm	0.1227 ppm	0.6796 ppm
Concentration RSD	1.2 %	0.7 %	0.9 %	0.4 %	0.5 %	0.8 %	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	1.1458 ppm	101.2353 %	105.4286 %	82.0618 %	114.7782 %	123.8973 %	115.7338 %
Concentration per Run 1	1.1526 ppm	100.6044 %	104.9642 %	81.9110 %	114.6548 %	123.3888 %	115.6494 %
Concentration per Run 2	1.1347 ppm	101.6736 %	104.9691 %	82.2576 %	115.3363 %	123.4333 %	115.8159 %
Concentration per Run 3	1.1502 ppm	101.4278 %	106.3525 %	82.0167 %	114.3434 %	124.8698 %	115.7360 %
Concentration RSD	0.8 %	0.6 %	0.8 %	0.2 %	0.4 %	0.7 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2010931-6D10 WG2010931
Analysis started at: 12/19/2024 11:04:31 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	0.0005 ppm	15.1893 ppm	0.0083 ppm	0.0054 ppm	0.1697 ppm	0.0010 ppm	9.9510 ppm
Concentration per Run 1	0.0005 ppm	15.1599 ppm	0.0084 ppm	0.0050 ppm	0.1705 ppm	0.0010 ppm	9.9014 ppm
Concentration per Run 2	0.0005 ppm	15.2292 ppm	0.0090 ppm	0.0062 ppm	0.1690 ppm	0.0010 ppm	9.9517 ppm
Concentration per Run 3	0.0006 ppm	15.1790 ppm	0.0077 ppm	0.0051 ppm	0.1697 ppm	0.0010 ppm	10.0000 ppm
Concentration RSD	12.3 %	0.2 %	7.8 %	11.9 %	0.5 %	2.9 %	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	0.0147 ppm	0.0294 ppm	0.0504 ppm	33.8680 ppm	1.2542 ppm	0.0245 ppm
Concentration per Run 1	0.0002 ppm	0.0148 ppm	0.0297 ppm	0.0507 ppm	33.6728 ppm	1.2795 ppm	0.0251 ppm
Concentration per Run 2	0.0002 ppm	0.0149 ppm	0.0294 ppm	0.0502 ppm	33.8862 ppm	1.2385 ppm	0.0242 ppm
Concentration per Run 3	0.0002 ppm	0.0143 ppm	0.0292 ppm	0.0502 ppm	34.0451 ppm	1.2447 ppm	0.0242 ppm
Concentration RSD	8.7 %	2.0 %	0.9 %	0.5 %	0.6 %	1.8 %	2.0 %

	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	5.5077 ppm	0.8048 ppm	0.0038 ppm	0.1761 ppm	0.0279 ppm	0.3023 ppm	0.0094 ppm
Concentration per Run 1	5.5855 ppm	0.8019 ppm	0.0040 ppm	0.1799 ppm	0.0284 ppm	0.3051 ppm	0.0103 ppm
Concentration per Run 2	5.4780 ppm	0.8041 ppm	0.0038 ppm	0.1729 ppm	0.0276 ppm	0.2996 ppm	0.0081 ppm
Concentration per Run 3	5.4597 ppm	0.8085 ppm	0.0037 ppm	0.1754 ppm	0.0278 ppm	0.3022 ppm	0.0096 ppm
Concentration RSD	1.2 %	0.4 %	4.5 %	2.0 %	1.6 %	0.9 %	11.8 %

	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	-0.0003 ppm	0.2919 ppm	0.0054 ppm	0.0264 ppm	0.2897 ppm	-0.0007 ppm	0.0392 ppm
Concentration per Run 1	-0.0005 ppm	0.2953 ppm	0.0044 ppm	0.0265 ppm	0.2938 ppm	-0.0010 ppm	0.0399 ppm
Concentration per Run 2	0.0008 ppm	0.2891 ppm	0.0065 ppm	0.0262 ppm	0.2874 ppm	-0.0015 ppm	0.0390 ppm
Concentration per Run 3	-0.0012 ppm	0.2914 ppm	0.0053 ppm	0.0263 ppm	0.2880 ppm	0.0003 ppm	0.0388 ppm
Concentration RSD	329.1 %	1.1 %	19.7 %	0.7 %	1.2 %	121.4 %	1.5 %

	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	0.1552 ppm	100.3367 %	104.2748 %	93.6910 %	101.8345 %	107.2302 %	103.6467 %
Concentration per Run 1	0.1579 ppm	99.6120 %	104.9125 %	93.1222 %	102.5853 %	107.9940 %	103.1868 %
Concentration per Run 2	0.1536 ppm	100.5923 %	104.0858 %	94.2189 %	102.0778 %	107.1248 %	104.1856 %
Concentration per Run 3	0.1542 ppm	100.8057 %	103.8260 %	93.7321 %	100.8405 %	106.5719 %	103.5676 %
Concentration RSD	1.5 %	0.6 %	0.5 %	0.6 %	0.9 %	0.7 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: CCV
Analysis started at: 12/19/2024 11:08:57 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	0.5017 ppm	0.4890 ppm	0.4822 ppm	0.5012 ppm	0.4851 ppm	0.5118 ppm	0.5117 ppm
Concentration per Run 1	0.5054 ppm	0.4901 ppm	0.4841 ppm	0.5037 ppm	0.4843 ppm	0.5129 ppm	0.5108 ppm
Concentration per Run 2	0.5017 ppm	0.4879 ppm	0.4792 ppm	0.5047 ppm	0.4846 ppm	0.5103 ppm	0.5103 ppm
Concentration per Run 3	0.4979 ppm	0.4888 ppm	0.4833 ppm	0.4952 ppm	0.4863 ppm	0.5121 ppm	0.5140 ppm
Recovery Percentage 1	100.334 %	97.790 %	96.441 %	100.243 %	97.017 %	102.356 %	102.337 %
Concentration RSD	0.7 %	0.2 %	0.6 %	1.0 %	0.2 %	0.3 %	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	0.5111 ppm	0.5222 ppm	0.5049 ppm	0.4998 ppm	0.5274 ppm	5.1035 ppm	0.4878 ppm
Concentration per Run 1	0.5115 ppm	0.5245 ppm	0.5059 ppm	0.5047 ppm	0.5284 ppm	5.0667 ppm	0.4850 ppm
Concentration per Run 2	0.5151 ppm	0.5238 ppm	0.5075 ppm	0.4994 ppm	0.5266 ppm	5.0969 ppm	0.4852 ppm
Concentration per Run 3	0.5067 ppm	0.5184 ppm	0.5014 ppm	0.4953 ppm	0.5272 ppm	5.1469 ppm	0.4932 ppm
Recovery Percentage 1	102.226 %	104.449 %	100.981 %	99.955 %	105.481 %	102.070 %	97.556 %
Concentration RSD	0.8 %	0.6 %	0.6 %	0.9 %	0.2 %	0.8 %	1.0 %

	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	0.5151 ppm	0.4998 ppm	0.5093 ppm	10.1325 ppm	0.5189 ppm	0.4899 ppm	0.5133 ppm
Concentration per Run 1	0.5171 ppm	0.5005 ppm	0.5065 ppm	10.0985 ppm	0.5194 ppm	0.4925 ppm	0.5199 ppm
Concentration per Run 2	0.5168 ppm	0.4991 ppm	0.5114 ppm	10.0644 ppm	0.5227 ppm	0.4892 ppm	0.5108 ppm
Concentration per Run 3	0.5115 ppm	0.4999 ppm	0.5099 ppm	10.2346 ppm	0.5145 ppm	0.4879 ppm	0.5092 ppm
Recovery Percentage 1	103.029 %	99.960 %	101.851 %	101.325 %	103.778 %	97.976 %	102.661 %
Concentration RSD	0.6 %	0.1 %	0.5 %	0.9 %	0.8 %	0.5 %	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	0.4873 ppm	5.6266 ppm	0.5391 ppm	0.5152 ppm	0.5078 ppm	0.4918 ppm	0.5028 ppm
Concentration per Run 1	0.4903 ppm	5.6538 ppm	0.5367 ppm	0.5157 ppm	0.5117 ppm	0.4942 ppm	0.5042 ppm
Concentration per Run 2	0.4855 ppm	5.6311 ppm	0.5454 ppm	0.5145 ppm	0.5075 ppm	0.4912 ppm	0.5052 ppm
Concentration per Run 3	0.4862 ppm	5.5948 ppm	0.5352 ppm	0.5154 ppm	0.5042 ppm	0.4901 ppm	0.4990 ppm
Recovery Percentage 1	97.464 %	107.173 %	107.822 %	103.040 %	101.562 %	98.364 %	100.557 %
Concentration RSD	0.5 %	0.5 %	1.0 %	0.1 %	0.7 %	0.4 %	0.7 %

	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	0.5156 ppm	100.2772 %	102.2330 %	95.2316 %	96.6510 %	100.5821 %	99.0595 %
Concentration per Run 1	0.5147 ppm	99.5888 %	102.4493 %	95.0680 %	96.3750 %	100.7566 %	99.0363 %
Concentration per Run 2	0.5214 ppm	99.7357 %	101.7482 %	94.6990 %	96.2644 %	100.1200 %	98.6856 %
Concentration per Run 3	0.5106 ppm	101.5071 %	102.5014 %	95.9277 %	97.3137 %	100.8699 %	99.4567 %
Recovery Percentage 1	103.112 %						
Concentration RSD	1.1 %	1.1 %	0.4 %	0.7 %	0.6 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: CCB
Analysis started at: 12/19/2024 11:13:23 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	0.0002 ppm	0.0010 ppm	0.0012 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0007 ppm
Concentration per Run 1	0.0003 ppm	0.0005 ppm	0.0002 ppm	0.0014 ppm	0.0000 ppm	0.0001 ppm	0.0010 ppm
Concentration per Run 2	0.0001 ppm	0.0005 ppm	0.0014 ppm	0.0011 ppm	0.0001 ppm	0.0000 ppm	0.0006 ppm
Concentration per Run 3	0.0002 ppm	0.0021 ppm	0.0020 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm
Recovery Percentage 1	3.617 %	1.035 %	23.590 %	3.753 %	0.276 %	0.992 %	0.667 %
Concentration RSD	60.5 %	88.7 %	77.4 %	20.1 %	115.8 %	19.2 %	46.8 %

	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	0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0052 ppm	-0.0011 ppm	0.0000 ppm
Concentration per Run 1	0.0001 ppm	0.0004 ppm	0.0000 ppm	0.0002 ppm	0.0055 ppm	-0.0045 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0054 ppm	-0.0031 ppm	0.0004 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0004 ppm	0.0048 ppm	0.0043 ppm	-0.0003 ppm
Recovery Percentage 1	1.249 %	2.447 %	1.020 %	2.920 %	10.415 %	-0.045 %	-0.039 %
Concentration RSD	131.6 %	77.8 %	120.5 %	41.5 %	7.1 %	422.2 %	9,650.4 %

	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	0.0000 ppm	0.0000 ppm	0.0023 ppm	-0.0071 ppm	0.0007 ppm	-0.0003 ppm	0.0020 ppm
Concentration per Run 1	0.0004 ppm	0.0000 ppm	0.0025 ppm	-0.0082 ppm	0.0011 ppm	0.0004 ppm	0.0006 ppm
Concentration per Run 2	-0.0004 ppm	0.0000 ppm	0.0022 ppm	-0.0063 ppm	0.0005 ppm	-0.0004 ppm	0.0044 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0022 ppm	-0.0067 ppm	0.0003 ppm	-0.0010 ppm	0.0010 ppm
Recovery Percentage 1	0.002 %	0.226 %	4.555 %	-0.354 %	2.614 %	-3.323 %	3.979 %
Concentration RSD	19,117.8 %	42.4 %	8.4 %	14.4 %	62.6 %	224.4 %	103.3 %

	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	-0.0025 ppm	-0.0003 ppm	0.0001 ppm	-0.0001 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 1	-0.0017 ppm	-0.0031 ppm	-0.0003 ppm	0.0000 ppm	-0.0001 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 2	-0.0008 ppm	-0.0023 ppm	-0.0010 ppm	0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 3	0.0008 ppm	-0.0020 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0006 ppm	0.0001 ppm
Recovery Percentage 1	-5.598 %	-0.497 %	-0.647 %	0.612 %	-0.578 %	-1.383 %	0.533 %
Concentration RSD	219.0 %	21.5 %	205.9 %	45.1 %	157.5 %	220.3 %	30.5 %

	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	0.0004 ppm	96.2808 %	99.7578 %	96.2040 %	99.3850 %	101.3492 %	101.3874 %
Concentration per Run 1	0.0003 ppm	95.0353 %	99.3778 %	96.1579 %	99.3165 %	101.4218 %	101.8132 %
Concentration per Run 2	0.0005 ppm	96.7669 %	99.7538 %	96.2045 %	99.6877 %	101.4218 %	101.4763 %
Concentration per Run 3	0.0004 ppm	97.0403 %	100.1417 %	96.2496 %	99.1507 %	101.2041 %	100.8726 %
Recovery Percentage 1	8.492 %						
Concentration RSD	28.1 %	1.1 %	0.4 %	0.0 %	0.3 %	0.1 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2010403-1 WG2010403
Analysis started at: 12/19/2024 11:25:49 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	0.0001 ppm	0.0023 ppm	0.0007 ppm	0.0010 ppm	0.0002 ppm	0.0000 ppm	0.0081 ppm
Concentration per Run 1	0.0002 ppm	0.0004 ppm	0.0006 ppm	0.0013 ppm	0.0003 ppm	0.0000 ppm	0.0091 ppm
Concentration per Run 2	0.0000 ppm	0.0032 ppm	0.0006 ppm	0.0009 ppm	0.0002 ppm	0.0000 ppm	0.0075 ppm
Concentration per Run 3	0.0002 ppm	0.0033 ppm	0.0007 ppm	0.0009 ppm	0.0002 ppm	0.0000 ppm	0.0077 ppm
Recovery Percentage 1	2.718 %	2.284 %	13.354 %	3.488 %	1.993 %	0.548 %	8.093 %
Concentration RSD	91.5 %	72.4 %	10.2 %	17.4 %	24.2 %	102.0 %	10.6 %

	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	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0004 ppm	0.0022 ppm	0.0008 ppm	-0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	-0.0002 ppm	0.0003 ppm	0.0018 ppm	0.0042 ppm	-0.0003 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0003 ppm	0.0027 ppm	-0.0060 ppm	-0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	0.0000 ppm	0.0005 ppm	0.0021 ppm	0.0042 ppm	-0.0002 ppm
Recovery Percentage 1	-0.272 %	2.329 %	0.520 %	3.734 %	4.394 %	0.031 %	-2.651 %
Concentration RSD	597.5 %	83.4 %	557.3 %	21.8 %	20.8 %	762.8 %	15.9 %

	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	0.0015 ppm	0.0000 ppm	-0.0002 ppm	-0.0061 ppm	0.0002 ppm	-0.0005 ppm	0.0015 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	-0.0002 ppm	-0.0068 ppm	0.0001 ppm	-0.0010 ppm	-0.0014 ppm
Concentration per Run 2	0.0025 ppm	-0.0001 ppm	-0.0002 ppm	-0.0062 ppm	-0.0001 ppm	-0.0004 ppm	0.0031 ppm
Concentration per Run 3	0.0021 ppm	0.0001 ppm	-0.0003 ppm	-0.0054 ppm	0.0005 ppm	-0.0002 ppm	0.0029 ppm
Recovery Percentage 1	1.530 %	-0.079 %	-0.444 %	-0.306 %	0.608 %	-5.228 %	3.031 %
Concentration RSD	84.1 %	916.2 %	29.7 %	11.9 %	209.8 %	76.8 %	167.6 %

	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	0.0023 ppm	-0.0006 ppm	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 1	-0.0013 ppm	0.0024 ppm	-0.0010 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 2	-0.0006 ppm	0.0031 ppm	-0.0008 ppm	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 3	-0.0015 ppm	0.0012 ppm	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	-0.0006 ppm	0.0001 ppm
Recovery Percentage 1	-11.466 %	0.453 %	-1.274 %	0.261 %	-1.526 %	-1.612 %	0.095 %
Concentration RSD	45.1 %	42.3 %	73.2 %	103.7 %	39.5 %	87.8 %	995.2 %

	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	0.0006 ppm	97.7532 %	100.0728 %	100.4340 %	102.7200 %	103.1951 %	103.8765 %
Concentration per Run 1	0.0007 ppm	96.6225 %	99.2600 %	99.7876 %	102.4301 %	103.0973 %	103.7902 %
Concentration per Run 2	0.0007 ppm	97.7190 %	100.4061 %	100.4730 %	102.9535 %	102.9745 %	103.7558 %
Concentration per Run 3	0.0005 ppm	98.9179 %	100.5523 %	101.0414 %	102.7764 %	103.5137 %	104.0835 %
Recovery Percentage 1	11.770 %						
Concentration RSD	19.8 %	1.2 %	0.7 %	0.6 %	0.3 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2010403-2 WG2010403
Analysis started at: 12/19/2024 11:30:31 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	0.0531 ppm	2.0940 ppm	0.1177 ppm	1.0118 ppm	1.9950 ppm	0.0511 ppm	10.0517 ppm
Concentration per Run 1	0.0539 ppm	2.1052 ppm	0.1205 ppm	1.0256 ppm	1.9936 ppm	0.0511 ppm	10.0757 ppm
Concentration per Run 2	0.0532 ppm	2.1074 ppm	0.1159 ppm	1.0080 ppm	2.0075 ppm	0.0510 ppm	10.0214 ppm
Concentration per Run 3	0.0521 ppm	2.0693 ppm	0.1166 ppm	1.0018 ppm	1.9839 ppm	0.0512 ppm	10.0580 ppm
Concentration RSD	1.7 %	1.0 %	2.1 %	1.2 %	0.6 %	0.1 %	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	0.0562 ppm	0.5396 ppm	0.2112 ppm	0.2666 ppm	1.0281 ppm	10.6151 ppm	0.0000 ppm
Concentration per Run 1	0.0573 ppm	0.5460 ppm	0.2148 ppm	0.2689 ppm	1.0265 ppm	10.6332 ppm	0.0003 ppm
Concentration per Run 2	0.0557 ppm	0.5386 ppm	0.2100 ppm	0.2673 ppm	1.0274 ppm	10.7527 ppm	0.0001 ppm
Concentration per Run 3	0.0556 ppm	0.5342 ppm	0.2088 ppm	0.2637 ppm	1.0306 ppm	10.4595 ppm	-0.0003 ppm
Concentration RSD	1.7 %	1.1 %	1.5 %	1.0 %	0.2 %	1.4 %	2,956.7 %

	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	10.7831 ppm	0.5033 ppm	0.9218 ppm	10.3890 ppm	0.5246 ppm	0.5455 ppm	0.4364 ppm
Concentration per Run 1	10.9724 ppm	0.5047 ppm	0.9275 ppm	10.4294 ppm	0.5340 ppm	0.5502 ppm	0.4396 ppm
Concentration per Run 2	10.7158 ppm	0.5023 ppm	0.9163 ppm	10.5753 ppm	0.5225 ppm	0.5444 ppm	0.4317 ppm
Concentration per Run 3	10.6610 ppm	0.5028 ppm	0.9215 ppm	10.1622 ppm	0.5171 ppm	0.5419 ppm	0.4378 ppm
Concentration RSD	1.5 %	0.3 %	0.6 %	2.0 %	1.6 %	0.8 %	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	0.1167 ppm	0.8849 ppm	1.0202 ppm	0.9927 ppm	1.0515 ppm	0.1246 ppm	0.5380 ppm
Concentration per Run 1	0.1180 ppm	0.8971 ppm	1.0331 ppm	0.9912 ppm	1.0687 ppm	0.1254 ppm	0.5459 ppm
Concentration per Run 2	0.1148 ppm	0.8828 ppm	1.0161 ppm	0.9993 ppm	1.0444 ppm	0.1245 ppm	0.5350 ppm
Concentration per Run 3	0.1175 ppm	0.8748 ppm	1.0114 ppm	0.9876 ppm	1.0414 ppm	0.1239 ppm	0.5330 ppm
Concentration RSD	1.5 %	1.3 %	1.1 %	0.6 %	1.4 %	0.6 %	1.3 %

	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	0.5248 ppm	94.6761 %	100.8729 %	89.4963 %	97.3691 %	102.0739 %	98.6773 %
Concentration per Run 1	0.5355 ppm	93.0831 %	100.7745 %	89.0218 %	96.5530 %	102.4272 %	98.8016 %
Concentration per Run 2	0.5216 ppm	95.3324 %	101.2862 %	89.1241 %	98.4279 %	102.3733 %	98.5090 %
Concentration per Run 3	0.5175 ppm	95.6128 %	100.5582 %	90.3430 %	97.1263 %	101.4212 %	98.7212 %
Concentration RSD	1.8 %	1.5 %	0.4 %	0.8 %	1.0 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2472968-01 WG2010403
Analysis started at: 12/19/2024 11:34:56 AM
Rack 1
Vial 51
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	0.1326 ppm	0.0037 ppm	0.2939 ppm	0.0404 ppm	0.0000 ppm	285.0688 ppm
Concentration per Run 1	-0.0003 ppm	0.1288 ppm	0.0033 ppm	0.3124 ppm	0.0409 ppm	0.0000 ppm	286.5561 ppm
Concentration per Run 2	-0.0001 ppm	0.1366 ppm	0.0036 ppm	0.2889 ppm	0.0401 ppm	0.0001 ppm	285.0190 ppm
Concentration per Run 3	0.0003 ppm	0.1323 ppm	0.0042 ppm	0.2803 ppm	0.0403 ppm	0.0000 ppm	283.6313 ppm
Concentration RSD	724.7 %	2.9 %	12.5 %	5.7 %	1.0 %	58.2 %	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	-0.0015 ppm	0.0012 ppm	0.0015 ppm	0.0242 ppm	0.1695 ppm	10.5400 ppm	0.0362 ppm
Concentration per Run 1	-0.0016 ppm	0.0015 ppm	0.0014 ppm	0.0258 ppm	0.1726 ppm	10.7068 ppm	0.0367 ppm
Concentration per Run 2	-0.0016 ppm	0.0011 ppm	0.0014 ppm	0.0238 ppm	0.1691 ppm	10.4628 ppm	0.0363 ppm
Concentration per Run 3	-0.0014 ppm	0.0010 ppm	0.0018 ppm	0.0230 ppm	0.1667 ppm	10.4504 ppm	0.0354 ppm
Concentration RSD	5.6 %	23.7 %	14.4 %	6.1 %	1.8 %	1.4 %	1.8 %

	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	7.0641 ppm	0.0595 ppm	0.0115 ppm	26.6362 ppm	0.0042 ppm	0.0116 ppm	0.0098 ppm
Concentration per Run 1	7.4986 ppm	0.0600 ppm	0.0124 ppm	27.0601 ppm	0.0047 ppm	0.0108 ppm	0.0120 ppm
Concentration per Run 2	6.9341 ppm	0.0593 ppm	0.0111 ppm	26.3083 ppm	0.0035 ppm	0.0119 ppm	0.0099 ppm
Concentration per Run 3	6.7596 ppm	0.0591 ppm	0.0109 ppm	26.5403 ppm	0.0045 ppm	0.0120 ppm	0.0074 ppm
Concentration RSD	5.5 %	0.8 %	7.3 %	1.4 %	15.2 %	6.1 %	23.4 %

	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	-0.0002 ppm	2.7338 ppm	0.0035 ppm	1.0095 ppm	0.0091 ppm	-0.0007 ppm	0.0010 ppm
Concentration per Run 1	-0.0001 ppm	2.9004 ppm	0.0036 ppm	1.0222 ppm	0.0098 ppm	-0.0012 ppm	0.0011 ppm
Concentration per Run 2	-0.0012 ppm	2.6853 ppm	0.0039 ppm	1.0004 ppm	0.0089 ppm	-0.0010 ppm	0.0010 ppm
Concentration per Run 3	0.0007 ppm	2.6156 ppm	0.0031 ppm	1.0059 ppm	0.0085 ppm	-0.0001 ppm	0.0008 ppm
Concentration RSD	509.3 %	5.4 %	10.8 %	1.1 %	7.3 %	82.1 %	11.9 %

	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	0.0655 ppm	86.4184 %	97.4532 %	77.8686 %	86.3365 %	98.4414 %	89.3250 %
Concentration per Run 1	0.0695 ppm	81.8468 %	96.7748 %	77.3943 %	81.2907 %	97.6530 %	89.4862 %
Concentration per Run 2	0.0645 ppm	87.5050 %	97.4563 %	77.7313 %	88.0846 %	98.5998 %	89.0496 %
Concentration per Run 3	0.0624 ppm	89.9035 %	98.1286 %	78.4803 %	89.6343 %	99.0714 %	89.4391 %
Concentration RSD	5.6 %	4.8 %	0.7 %	0.7 %	5.1 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473162-01 WG2010403
Analysis started at: 12/19/2024 11:39:21 AM
Rack 1
Vial 52
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	0.0016 ppm	0.0002 ppm	0.0157 ppm	0.0260 ppm	0.0000 ppm	31.2673 ppm
Concentration per Run 1	0.0000 ppm	0.0017 ppm	0.0007 ppm	0.0161 ppm	0.0263 ppm	0.0000 ppm	31.0719 ppm
Concentration per Run 2	0.0000 ppm	0.0016 ppm	0.0002 ppm	0.0155 ppm	0.0256 ppm	0.0000 ppm	31.3256 ppm
Concentration per Run 3	0.0004 ppm	0.0017 ppm	-0.0002 ppm	0.0156 ppm	0.0260 ppm	0.0000 ppm	31.4045 ppm
Concentration RSD	186.2 %	4.1 %	208.5 %	1.9 %	1.3 %	254.6 %	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	-0.0002 ppm	0.0000 ppm	0.0003 ppm	0.0007 ppm	0.0029 ppm	1.1691 ppm	0.0002 ppm
Concentration per Run 1	-0.0002 ppm	-0.0001 ppm	0.0004 ppm	0.0007 ppm	0.0037 ppm	1.1977 ppm	0.0002 ppm
Concentration per Run 2	-0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0008 ppm	0.0028 ppm	1.1391 ppm	0.0002 ppm
Concentration per Run 3	-0.0002 ppm	0.0001 ppm	0.0004 ppm	0.0008 ppm	0.0021 ppm	1.1706 ppm	0.0000 ppm
Concentration RSD	10.1 %	263.9 %	44.4 %	9.8 %	28.8 %	2.5 %	75.7 %

	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	10.5279 ppm	0.0003 ppm	0.0006 ppm	3.8844 ppm	0.0004 ppm	-0.0004 ppm	0.0029 ppm
Concentration per Run 1	10.7148 ppm	0.0003 ppm	0.0006 ppm	3.9525 ppm	0.0008 ppm	-0.0011 ppm	0.0014 ppm
Concentration per Run 2	10.4811 ppm	0.0004 ppm	0.0005 ppm	3.8072 ppm	0.0000 ppm	-0.0003 ppm	0.0050 ppm
Concentration per Run 3	10.3877 ppm	0.0003 ppm	0.0006 ppm	3.8936 ppm	0.0003 ppm	0.0001 ppm	0.0022 ppm
Concentration RSD	1.6 %	17.2 %	13.4 %	1.9 %	110.4 %	142.0 %	65.6 %

	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	0.0009 ppm	3.0857 ppm	-0.0003 ppm	0.0586 ppm	-0.0003 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 1	0.0001 ppm	3.1247 ppm	-0.0009 ppm	0.0593 ppm	-0.0003 ppm	-0.0004 ppm	0.0002 ppm
Concentration per Run 2	0.0012 ppm	3.0875 ppm	-0.0004 ppm	0.0580 ppm	-0.0002 ppm	-0.0003 ppm	0.0002 ppm
Concentration per Run 3	0.0015 ppm	3.0449 ppm	0.0003 ppm	0.0584 ppm	-0.0003 ppm	-0.0002 ppm	0.0001 ppm
Concentration RSD	81.4 %	1.3 %	190.9 %	1.1 %	35.7 %	30.5 %	52.4 %

	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	0.0029 ppm	91.4020 %	97.5449 %	88.4226 %	97.6947 %	101.9125 %	98.8302 %
Concentration per Run 1	0.0030 ppm	90.2638 %	98.0457 %	86.9337 %	97.4608 %	102.6829 %	98.2677 %
Concentration per Run 2	0.0028 ppm	91.5125 %	97.6679 %	89.2403 %	97.5487 %	101.8795 %	99.2549 %
Concentration per Run 3	0.0030 ppm	92.4296 %	96.9211 %	89.0939 %	98.0747 %	101.1751 %	98.9680 %
Concentration RSD	4.5 %	1.2 %	0.6 %	1.5 %	0.3 %	0.7 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473162-02 WG2010403
Analysis started at: 12/19/2024 11:43:46 AM
Rack 1
Vial 53
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	0.0029 ppm	0.0016 ppm	0.0095 ppm	0.0263 ppm	0.0000 ppm	16.3147 ppm
Concentration per Run 1	0.0003 ppm	0.0017 ppm	0.0012 ppm	0.0105 ppm	0.0264 ppm	0.0000 ppm	16.2894 ppm
Concentration per Run 2	0.0002 ppm	0.0042 ppm	0.0009 ppm	0.0089 ppm	0.0262 ppm	0.0000 ppm	16.2922 ppm
Concentration per Run 3	0.0003 ppm	0.0029 ppm	0.0026 ppm	0.0091 ppm	0.0263 ppm	0.0000 ppm	16.3625 ppm
Concentration RSD	34.5 %	42.6 %	56.7 %	8.7 %	0.5 %	173.2 %	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	-0.0001 ppm	0.0006 ppm	0.0002 ppm	0.0005 ppm	2.8700 ppm	0.9174 ppm	0.0024 ppm
Concentration per Run 1	-0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0005 ppm	2.8605 ppm	0.9414 ppm	0.0023 ppm
Concentration per Run 2	-0.0001 ppm	0.0007 ppm	0.0001 ppm	0.0003 ppm	2.8673 ppm	0.9112 ppm	0.0023 ppm
Concentration per Run 3	-0.0002 ppm	0.0006 ppm	0.0002 ppm	0.0005 ppm	2.8821 ppm	0.8997 ppm	0.0025 ppm
Concentration RSD	19.9 %	18.0 %	28.7 %	22.7 %	0.4 %	2.3 %	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	6.3219 ppm	0.0552 ppm	0.0000 ppm	7.7341 ppm	0.0012 ppm	-0.0004 ppm	0.0025 ppm
Concentration per Run 1	6.4414 ppm	0.0553 ppm	-0.0001 ppm	7.8693 ppm	0.0016 ppm	-0.0010 ppm	0.0025 ppm
Concentration per Run 2	6.3057 ppm	0.0552 ppm	0.0000 ppm	7.6610 ppm	0.0009 ppm	-0.0007 ppm	0.0029 ppm
Concentration per Run 3	6.2185 ppm	0.0552 ppm	0.0000 ppm	7.6721 ppm	0.0013 ppm	0.0004 ppm	0.0021 ppm
Concentration RSD	1.8 %	0.2 %	434.0 %	1.5 %	28.3 %	163.3 %	15.1 %

	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	0.0002 ppm	10.0728 ppm	0.0000 ppm	0.0855 ppm	-0.0001 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 1	0.0013 ppm	10.2227 ppm	-0.0001 ppm	0.0858 ppm	0.0000 ppm	-0.0008 ppm	0.0000 ppm
Concentration per Run 2	-0.0002 ppm	10.0728 ppm	0.0002 ppm	0.0850 ppm	-0.0001 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 3	-0.0007 ppm	9.9230 ppm	-0.0002 ppm	0.0858 ppm	-0.0003 ppm	-0.0014 ppm	0.0001 ppm
Concentration RSD	687.6 %	1.5 %	426.5 %	0.5 %	158.8 %	75.1 %	43.6 %

	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	0.0014 ppm	93.2386 %	98.9768 %	90.1654 %	98.4825 %	101.9663 %	99.2197 %
Concentration per Run 1	0.0013 ppm	91.7336 %	99.3254 %	89.0603 %	97.8548 %	102.5957 %	98.8072 %
Concentration per Run 2	0.0016 ppm	93.3749 %	98.8907 %	90.7412 %	98.8441 %	101.9888 %	99.6737 %
Concentration per Run 3	0.0013 ppm	94.6074 %	98.7143 %	90.6947 %	98.7487 %	101.3145 %	99.1780 %
Concentration RSD	9.6 %	1.5 %	0.3 %	1.1 %	0.6 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473162-06 WG2010403
Analysis started at: 12/19/2024 11:48:11 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	0.0001 ppm	-0.0013 ppm	0.0014 ppm	0.1097 ppm	0.0142 ppm	0.0000 ppm	19.5036 ppm
Concentration per Run 1	0.0002 ppm	-0.0035 ppm	0.0015 ppm	0.1109 ppm	0.0143 ppm	0.0000 ppm	19.5470 ppm
Concentration per Run 2	0.0001 ppm	-0.0015 ppm	0.0016 ppm	0.1097 ppm	0.0140 ppm	0.0000 ppm	19.4622 ppm
Concentration per Run 3	0.0001 ppm	0.0011 ppm	0.0010 ppm	0.1084 ppm	0.0142 ppm	0.0000 ppm	19.5016 ppm
Concentration RSD	42.2 %	177.4 %	25.6 %	1.1 %	1.1 %	57.3 %	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	0.0001 ppm	0.0017 ppm	0.0007 ppm	0.0102 ppm	1.5001 ppm	0.0020 ppm
Concentration per Run 1	-0.0002 ppm	0.0002 ppm	0.0020 ppm	0.0007 ppm	0.0099 ppm	1.4924 ppm	0.0020 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0015 ppm	0.0006 ppm	0.0101 ppm	1.5115 ppm	0.0020 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0015 ppm	0.0007 ppm	0.0106 ppm	1.4962 ppm	0.0020 ppm
Concentration RSD	142.3 %	56.9 %	17.8 %	13.7 %	3.5 %	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	10.3191 ppm	0.0020 ppm	-0.0002 ppm	14.6527 ppm	0.0017 ppm	-0.0001 ppm	0.0013 ppm
Concentration per Run 1	10.4273 ppm	0.0019 ppm	0.0001 ppm	14.6240 ppm	0.0016 ppm	0.0004 ppm	0.0005 ppm
Concentration per Run 2	10.3617 ppm	0.0019 ppm	-0.0004 ppm	14.8085 ppm	0.0021 ppm	0.0001 ppm	0.0031 ppm
Concentration per Run 3	10.1682 ppm	0.0020 ppm	-0.0002 ppm	14.5257 ppm	0.0015 ppm	-0.0006 ppm	0.0004 ppm
Concentration RSD	1.3 %	2.5 %	160.7 %	1.0 %	18.5 %	883.5 %	115.4 %

	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	-0.0018 ppm	11.2500 ppm	-0.0005 ppm	0.0959 ppm	-0.0002 ppm	0.0004 ppm	0.0012 ppm
Concentration per Run 1	-0.0003 ppm	11.4352 ppm	-0.0003 ppm	0.0964 ppm	0.0000 ppm	0.0003 ppm	0.0011 ppm
Concentration per Run 2	-0.0020 ppm	11.2482 ppm	-0.0004 ppm	0.0957 ppm	-0.0004 ppm	0.0009 ppm	0.0014 ppm
Concentration per Run 3	-0.0030 ppm	11.0666 ppm	-0.0007 ppm	0.0954 ppm	-0.0001 ppm	0.0000 ppm	0.0012 ppm
Concentration RSD	76.3 %	1.6 %	39.4 %	0.5 %	113.8 %	115.7 %	13.2 %

	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	0.0016 ppm	87.5289 %	94.4038 %	84.4520 %	96.1018 %	102.9408 %	98.5682 %
Concentration per Run 1	0.0015 ppm	86.7887 %	94.3849 %	83.5513 %	95.4283 %	103.3021 %	97.9700 %
Concentration per Run 2	0.0016 ppm	87.0881 %	94.2983 %	84.7808 %	95.7588 %	102.8436 %	99.1620 %
Concentration per Run 3	0.0016 ppm	88.7099 %	94.5282 %	85.0239 %	97.1184 %	102.6766 %	98.5726 %
Concentration RSD	4.5 %	1.2 %	0.1 %	0.9 %	0.9 %	0.3 %	0.6 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2010403-3 WG2010403
Analysis started at: 12/19/2024 11:52:36 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	0.0546 ppm	2.1552 ppm	0.1223 ppm	1.1645 ppm	2.0516 ppm	0.0529 ppm	28.6967 ppm
Concentration per Run 1	0.0558 ppm	2.1762 ppm	0.1224 ppm	1.1788 ppm	2.0863 ppm	0.0530 ppm	28.7008 ppm
Concentration per Run 2	0.0544 ppm	2.1390 ppm	0.1225 ppm	1.1644 ppm	2.0286 ppm	0.0529 ppm	28.7957 ppm
Concentration per Run 3	0.0536 ppm	2.1504 ppm	0.1221 ppm	1.1502 ppm	2.0399 ppm	0.0529 ppm	28.5936 ppm
Concentration RSD	2.0 %	0.9 %	0.2 %	1.2 %	1.5 %	0.1 %	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	0.0577 ppm	0.5470 ppm	0.2188 ppm	0.2753 ppm	1.0571 ppm	12.3047 ppm	0.0025 ppm
Concentration per Run 1	0.0584 ppm	0.5553 ppm	0.2212 ppm	0.2799 ppm	1.0632 ppm	12.5405 ppm	0.0023 ppm
Concentration per Run 2	0.0576 ppm	0.5450 ppm	0.2187 ppm	0.2758 ppm	1.0564 ppm	12.1503 ppm	0.0029 ppm
Concentration per Run 3	0.0573 ppm	0.5408 ppm	0.2164 ppm	0.2702 ppm	1.0516 ppm	12.2231 ppm	0.0022 ppm
Concentration RSD	1.0 %	1.4 %	1.1 %	1.8 %	0.6 %	1.7 %	15.1 %

	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	20.6173 ppm	0.5169 ppm	0.8852 ppm	24.5016 ppm	0.5331 ppm	0.5619 ppm	0.4643 ppm
Concentration per Run 1	20.8312 ppm	0.5174 ppm	0.8883 ppm	24.9142 ppm	0.5416 ppm	0.5674 ppm	0.4673 ppm
Concentration per Run 2	20.6051 ppm	0.5174 ppm	0.8798 ppm	24.1296 ppm	0.5324 ppm	0.5604 ppm	0.4662 ppm
Concentration per Run 3	20.4154 ppm	0.5159 ppm	0.8873 ppm	24.4609 ppm	0.5252 ppm	0.5579 ppm	0.4593 ppm
Concentration RSD	1.0 %	0.2 %	0.5 %	1.6 %	1.5 %	0.9 %	0.9 %

	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	0.1226 ppm	11.4216 ppm	1.0265 ppm	1.1003 ppm	1.0744 ppm	0.1290 ppm	0.5564 ppm
Concentration per Run 1	0.1213 ppm	11.5645 ppm	1.0403 ppm	1.1083 ppm	1.0873 ppm	0.1309 ppm	0.5630 ppm
Concentration per Run 2	0.1225 ppm	11.4345 ppm	1.0222 ppm	1.0944 ppm	1.0749 ppm	0.1289 ppm	0.5559 ppm
Concentration per Run 3	0.1240 ppm	11.2658 ppm	1.0170 ppm	1.0980 ppm	1.0609 ppm	0.1272 ppm	0.5502 ppm
Concentration RSD	1.1 %	1.3 %	1.2 %	0.7 %	1.2 %	1.4 %	1.2 %

	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	0.5446 ppm	91.5651 %	99.1596 %	84.3115 %	95.2720 %	100.6820 %	96.4033 %
Concentration per Run 1	0.5529 ppm	90.4101 %	98.7821 %	83.4445 %	95.2674 %	100.6270 %	96.4189 %
Concentration per Run 2	0.5418 ppm	91.5844 %	99.0899 %	84.0434 %	95.1020 %	100.5931 %	96.3166 %
Concentration per Run 3	0.5391 ppm	92.7007 %	99.6068 %	85.4467 %	95.4466 %	100.8260 %	96.4744 %
Concentration RSD	1.3 %	1.3 %	0.4 %	1.2 %	0.2 %	0.1 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2010403-4 WG2010403
Analysis started at: 12/19/2024 11:57:02 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	0.0534 ppm	2.1173 ppm	0.1205 ppm	1.1436 ppm	1.9987 ppm	0.0517 ppm	28.0212 ppm
Concentration per Run 1	0.0539 ppm	2.1374 ppm	0.1211 ppm	1.1585 ppm	2.0074 ppm	0.0520 ppm	28.1193 ppm
Concentration per Run 2	0.0531 ppm	2.1073 ppm	0.1222 ppm	1.1404 ppm	1.9962 ppm	0.0517 ppm	28.0892 ppm
Concentration per Run 3	0.0533 ppm	2.1071 ppm	0.1184 ppm	1.1319 ppm	1.9924 ppm	0.0515 ppm	27.8551 ppm
Concentration RSD	0.8 %	0.8 %	1.6 %	1.2 %	0.4 %	0.5 %	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	0.0568 ppm	0.5355 ppm	0.2147 ppm	0.2700 ppm	1.0299 ppm	12.0549 ppm	0.0026 ppm
Concentration per Run 1	0.0580 ppm	0.5444 ppm	0.2185 ppm	0.2716 ppm	1.0375 ppm	12.0692 ppm	0.0026 ppm
Concentration per Run 2	0.0566 ppm	0.5348 ppm	0.2150 ppm	0.2692 ppm	1.0319 ppm	12.0351 ppm	0.0028 ppm
Concentration per Run 3	0.0557 ppm	0.5273 ppm	0.2108 ppm	0.2693 ppm	1.0202 ppm	12.0604 ppm	0.0023 ppm
Concentration RSD	2.1 %	1.6 %	1.8 %	0.5 %	0.9 %	0.1 %	10.9 %

	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	20.2515 ppm	0.5052 ppm	0.8703 ppm	24.0867 ppm	0.5218 ppm	0.5506 ppm	0.4619 ppm
Concentration per Run 1	20.6440 ppm	0.5074 ppm	0.8751 ppm	24.0996 ppm	0.5301 ppm	0.5525 ppm	0.4631 ppm
Concentration per Run 2	20.2236 ppm	0.5062 ppm	0.8679 ppm	24.1366 ppm	0.5225 ppm	0.5525 ppm	0.4608 ppm
Concentration per Run 3	19.8868 ppm	0.5021 ppm	0.8678 ppm	24.0240 ppm	0.5127 ppm	0.5469 ppm	0.4616 ppm
Concentration RSD	1.9 %	0.5 %	0.5 %	0.2 %	1.7 %	0.6 %	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	0.1191 ppm	11.2180 ppm	1.0105 ppm	1.0803 ppm	1.0520 ppm	0.1255 ppm	0.5447 ppm
Concentration per Run 1	0.1193 ppm	11.3509 ppm	1.0214 ppm	1.0857 ppm	1.0662 ppm	0.1268 ppm	0.5520 ppm
Concentration per Run 2	0.1197 ppm	11.2084 ppm	1.0084 ppm	1.0802 ppm	1.0507 ppm	0.1252 ppm	0.5435 ppm
Concentration per Run 3	0.1184 ppm	11.0948 ppm	1.0017 ppm	1.0749 ppm	1.0391 ppm	0.1244 ppm	0.5385 ppm
Concentration RSD	0.6 %	1.1 %	1.0 %	0.5 %	1.3 %	1.0 %	1.3 %

	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	0.5324 ppm	91.9351 %	99.7631 %	84.7358 %	95.3873 %	101.3466 %	96.7406 %
Concentration per Run 1	0.5449 ppm	90.6233 %	99.2023 %	84.4306 %	95.3908 %	101.6784 %	97.3770 %
Concentration per Run 2	0.5330 ppm	92.1581 %	99.6139 %	84.6603 %	95.1283 %	100.8573 %	96.5263 %
Concentration per Run 3	0.5193 ppm	93.0239 %	100.4730 %	85.1164 %	95.6428 %	101.5039 %	96.3186 %
Concentration RSD	2.4 %	1.3 %	0.6 %	0.4 %	0.3 %	0.4 %	0.6 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2010403-5 WG2010403
Analysis started at: 12/19/2024 12:01:27 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	0.0562 ppm	2.1707 ppm	0.1248 ppm	1.2937 ppm	2.1328 ppm	0.0560 ppm	29.4762 ppm
Concentration per Run 1	0.0575 ppm	2.1697 ppm	0.1248 ppm	1.3180 ppm	2.1185 ppm	0.0562 ppm	29.4805 ppm
Concentration per Run 2	0.0563 ppm	2.1706 ppm	0.1247 ppm	1.2922 ppm	2.1361 ppm	0.0561 ppm	29.7032 ppm
Concentration per Run 3	0.0548 ppm	2.1719 ppm	0.1250 ppm	1.2709 ppm	2.1439 ppm	0.0557 ppm	29.2449 ppm
Concentration RSD	2.4 %	0.0 %	0.1 %	1.8 %	0.6 %	0.5 %	0.8 %

	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	0.0606 ppm	0.5805 ppm	0.2318 ppm	0.2967 ppm	1.0805 ppm	13.0977 ppm	0.0021 ppm
Concentration per Run 1	0.0622 ppm	0.5936 ppm	0.2379 ppm	0.3033 ppm	1.0798 ppm	13.0092 ppm	0.0017 ppm
Concentration per Run 2	0.0605 ppm	0.5801 ppm	0.2319 ppm	0.2962 ppm	1.0816 ppm	13.0451 ppm	0.0021 ppm
Concentration per Run 3	0.0590 ppm	0.5678 ppm	0.2256 ppm	0.2907 ppm	1.0801 ppm	13.2387 ppm	0.0027 ppm
Concentration RSD	2.7 %	2.2 %	2.7 %	2.1 %	0.1 %	0.9 %	24.6 %

	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	21.8087 ppm	0.5579 ppm	0.7814 ppm	24.7431 ppm	0.5824 ppm	0.5990 ppm	0.3802 ppm
Concentration per Run 1	22.3775 ppm	0.5593 ppm	0.7896 ppm	24.4070 ppm	0.5964 ppm	0.6042 ppm	0.3845 ppm
Concentration per Run 2	21.7442 ppm	0.5601 ppm	0.7799 ppm	24.6444 ppm	0.5825 ppm	0.5981 ppm	0.3770 ppm
Concentration per Run 3	21.3043 ppm	0.5544 ppm	0.7746 ppm	25.1777 ppm	0.5684 ppm	0.5948 ppm	0.3790 ppm
Concentration RSD	2.5 %	0.6 %	1.0 %	1.6 %	2.4 %	0.8 %	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	0.1307 ppm	11.8121 ppm	0.9309 ppm	1.1854 ppm	1.1662 ppm	0.1374 ppm	0.5868 ppm
Concentration per Run 1	0.1288 ppm	12.1278 ppm	0.9375 ppm	1.1782 ppm	1.1911 ppm	0.1380 ppm	0.5988 ppm
Concentration per Run 2	0.1311 ppm	11.8010 ppm	0.9273 ppm	1.1866 ppm	1.1657 ppm	0.1380 ppm	0.5856 ppm
Concentration per Run 3	0.1322 ppm	11.5074 ppm	0.9279 ppm	1.1914 ppm	1.1417 ppm	0.1362 ppm	0.5761 ppm
Concentration RSD	1.3 %	2.6 %	0.6 %	0.6 %	2.1 %	0.8 %	1.9 %

	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	0.5999 ppm	89.1114 %	96.9079 %	82.8139 %	95.9011 %	101.1531 %	98.0035 %
Concentration per Run 1	0.6175 ppm	86.8843 %	96.7692 %	82.0807 %	94.3694 %	101.2037 %	98.0946 %
Concentration per Run 2	0.5980 ppm	89.4413 %	96.2697 %	83.5724 %	96.3943 %	100.7736 %	98.6668 %
Concentration per Run 3	0.5842 ppm	91.0086 %	97.6847 %	82.7886 %	96.9395 %	101.4820 %	97.2490 %
Concentration RSD	2.8 %	2.3 %	0.7 %	0.9 %	1.4 %	0.4 %	0.7 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2010403-6D5 WG2010403
Analysis started at: 12/19/2024 12:05:53 PM
Rack 1
Vial 45
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	0.0031 ppm	0.0011 ppm	0.0196 ppm	0.0027 ppm	0.0000 ppm	3.6151 ppm
Concentration per Run 1	0.0000 ppm	0.0047 ppm	0.0007 ppm	0.0200 ppm	0.0028 ppm	0.0000 ppm	3.6160 ppm
Concentration per Run 2	0.0002 ppm	0.0041 ppm	0.0006 ppm	0.0193 ppm	0.0027 ppm	0.0000 ppm	3.5984 ppm
Concentration per Run 3	0.0002 ppm	0.0005 ppm	0.0020 ppm	0.0193 ppm	0.0027 ppm	0.0000 ppm	3.6308 ppm
Concentration RSD	83.3 %	74.3 %	68.8 %	2.0 %	2.2 %	1,109.1 %	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	-0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0000 ppm	0.0068 ppm	0.2762 ppm	0.0010 ppm
Concentration per Run 1	-0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0000 ppm	0.0068 ppm	0.2764 ppm	0.0009 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0076 ppm	0.2781 ppm	0.0009 ppm
Concentration per Run 3	-0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0061 ppm	0.2741 ppm	0.0010 ppm
Concentration RSD	22.9 %	65.6 %	67.4 %	184.3 %	11.5 %	0.7 %	6.5 %

	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	1.8354 ppm	0.0004 ppm	0.0125 ppm	2.6384 ppm	0.0003 ppm	-0.0007 ppm	0.0191 ppm
Concentration per Run 1	1.8606 ppm	0.0004 ppm	0.0122 ppm	2.6743 ppm	0.0003 ppm	-0.0010 ppm	0.0187 ppm
Concentration per Run 2	1.8353 ppm	0.0004 ppm	0.0128 ppm	2.6294 ppm	0.0004 ppm	-0.0004 ppm	0.0183 ppm
Concentration per Run 3	1.8102 ppm	0.0005 ppm	0.0125 ppm	2.6116 ppm	0.0001 ppm	-0.0006 ppm	0.0204 ppm
Concentration RSD	1.4 %	6.7 %	2.1 %	1.2 %	62.0 %	46.5 %	5.7 %

	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	-0.0004 ppm	1.9118 ppm	0.0381 ppm	0.0176 ppm	0.0009 ppm	-0.0011 ppm	0.0004 ppm
Concentration per Run 1	-0.0006 ppm	1.9246 ppm	0.0385 ppm	0.0176 ppm	0.0009 ppm	-0.0008 ppm	0.0003 ppm
Concentration per Run 2	-0.0006 ppm	1.9207 ppm	0.0389 ppm	0.0176 ppm	0.0008 ppm	-0.0011 ppm	0.0004 ppm
Concentration per Run 3	0.0001 ppm	1.8902 ppm	0.0368 ppm	0.0176 ppm	0.0009 ppm	-0.0016 ppm	0.0004 ppm
Concentration RSD	111.7 %	1.0 %	2.8 %	0.2 %	5.9 %	34.5 %	15.2 %

	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	0.0007 ppm	98.8387 %	101.4935 %	96.0358 %	98.5827 %	101.1323 %	100.2408 %
Concentration per Run 1	0.0009 ppm	97.6401 %	101.5019 %	95.7862 %	98.7215 %	101.6144 %	100.4989 %
Concentration per Run 2	0.0005 ppm	98.6782 %	101.9600 %	95.5669 %	98.1609 %	101.7246 %	99.7019 %
Concentration per Run 3	0.0008 ppm	100.1978 %	101.0185 %	96.7543 %	98.8657 %	100.0578 %	100.5215 %
Concentration RSD	22.6 %	1.3 %	0.5 %	0.7 %	0.4 %	0.9 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: CCV
Analysis started at: 12/19/2024 12:10:20 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	0.5022 ppm	0.4894 ppm	0.4806 ppm	0.5009 ppm	0.4861 ppm	0.5164 ppm	0.5157 ppm
Concentration per Run 1	0.5051 ppm	0.4939 ppm	0.4789 ppm	0.5053 ppm	0.4848 ppm	0.5166 ppm	0.5183 ppm
Concentration per Run 2	0.5023 ppm	0.4918 ppm	0.4815 ppm	0.4985 ppm	0.4917 ppm	0.5176 ppm	0.5130 ppm
Concentration per Run 3	0.4993 ppm	0.4825 ppm	0.4814 ppm	0.4989 ppm	0.4816 ppm	0.5150 ppm	0.5159 ppm
Recovery Percentage 1	100.450 %	97.886 %	96.116 %	100.182 %	97.212 %	103.280 %	103.144 %
Concentration RSD	0.6 %	1.2 %	0.3 %	0.8 %	1.1 %	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	0.5125 ppm	0.5251 ppm	0.5072 ppm	0.4995 ppm	0.5272 ppm	5.1471 ppm	0.4950 ppm
Concentration per Run 1	0.5189 ppm	0.5318 ppm	0.5111 ppm	0.5017 ppm	0.5281 ppm	5.1446 ppm	0.4946 ppm
Concentration per Run 2	0.5110 ppm	0.5237 ppm	0.5074 ppm	0.4990 ppm	0.5286 ppm	5.2419 ppm	0.5022 ppm
Concentration per Run 3	0.5075 ppm	0.5197 ppm	0.5030 ppm	0.4978 ppm	0.5249 ppm	5.0547 ppm	0.4881 ppm
Recovery Percentage 1	102.493 %	105.012 %	101.433 %	99.903 %	105.443 %	102.942 %	98.992 %
Concentration RSD	1.1 %	1.2 %	0.8 %	0.4 %	0.4 %	1.8 %	1.4 %

	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	0.5171 ppm	0.5040 ppm	0.5100 ppm	10.0780 ppm	0.5211 ppm	0.4915 ppm	0.5203 ppm
Concentration per Run 1	0.5216 ppm	0.5056 ppm	0.5091 ppm	10.0908 ppm	0.5248 ppm	0.4942 ppm	0.5224 ppm
Concentration per Run 2	0.5154 ppm	0.5042 ppm	0.5114 ppm	10.2179 ppm	0.5221 ppm	0.4922 ppm	0.5200 ppm
Concentration per Run 3	0.5144 ppm	0.5023 ppm	0.5095 ppm	9.9253 ppm	0.5166 ppm	0.4881 ppm	0.5186 ppm
Recovery Percentage 1	103.425 %	100.804 %	101.994 %	100.780 %	104.227 %	98.301 %	104.065 %
Concentration RSD	0.7 %	0.3 %	0.2 %	1.5 %	0.8 %	0.6 %	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	0.4885 ppm	5.6365 ppm	0.5493 ppm	0.5184 ppm	0.5094 ppm	0.4915 ppm	0.5060 ppm
Concentration per Run 1	0.4886 ppm	5.6589 ppm	0.5535 ppm	0.5197 ppm	0.5128 ppm	0.4918 ppm	0.5095 ppm
Concentration per Run 2	0.4897 ppm	5.6382 ppm	0.5513 ppm	0.5212 ppm	0.5084 ppm	0.4949 ppm	0.5061 ppm
Concentration per Run 3	0.4872 ppm	5.6124 ppm	0.5431 ppm	0.5143 ppm	0.5070 ppm	0.4879 ppm	0.5023 ppm
Recovery Percentage 1	97.701 %	107.361 %	109.860 %	103.676 %	101.883 %	98.308 %	101.195 %
Concentration RSD	0.3 %	0.4 %	1.0 %	0.7 %	0.6 %	0.7 %	0.7 %

	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	0.5178 ppm	100.3404 %	101.7523 %	95.2748 %	96.8252 %	100.3348 %	99.2169 %
Concentration per Run 1	0.5221 ppm	99.5824 %	101.8767 %	94.6876 %	96.9584 %	100.9075 %	99.2064 %
Concentration per Run 2	0.5184 ppm	100.4984 %	102.0098 %	95.3793 %	97.0614 %	100.6885 %	99.4220 %
Concentration per Run 3	0.5130 ppm	100.9405 %	101.3704 %	95.7575 %	96.4559 %	99.4083 %	99.0224 %
Recovery Percentage 1	103.569 %						
Concentration RSD	0.9 %	0.7 %	0.3 %	0.6 %	0.3 %	0.8 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: CCB
Analysis started at: 12/19/2024 12:14:45 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	0.0005 ppm	0.0023 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0029 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0026 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0023 ppm
Concentration per Run 2	0.0000 ppm	0.0023 ppm	0.0029 ppm	0.0011 ppm	0.0001 ppm	0.0000 ppm	0.0030 ppm
Concentration per Run 3	0.0004 ppm	-0.0007 ppm	0.0013 ppm	0.0015 ppm	0.0000 ppm	0.0000 ppm	0.0034 ppm
Recovery Percentage 1	3.562 %	0.492 %	45.934 %	2.898 %	0.385 %	0.745 %	2.929 %
Concentration RSD	99.4 %	320.2 %	36.8 %	82.7 %	78.3 %	18.3 %	19.0 %

	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	0.0001 ppm	0.0066 ppm	-0.0019 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	-0.0003 ppm	-0.0002 ppm	0.0074 ppm	0.0064 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0002 ppm	0.0003 ppm	0.0065 ppm	-0.0048 ppm	-0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0060 ppm	-0.0071 ppm	0.0007 ppm
Recovery Percentage 1	0.058 %	1.788 %	-0.190 %	0.636 %	13.273 %	-0.074 %	0.751 %
Concentration RSD	1,211.7 %	74.4 %	1,308.7 %	403.9 %	10.1 %	390.5 %	676.9 %

	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	-0.0006 ppm	0.0000 ppm	0.0031 ppm	-0.0037 ppm	0.0004 ppm	-0.0004 ppm	0.0032 ppm
Concentration per Run 1	-0.0011 ppm	0.0001 ppm	0.0029 ppm	-0.0022 ppm	0.0005 ppm	-0.0003 ppm	0.0026 ppm
Concentration per Run 2	-0.0009 ppm	0.0000 ppm	0.0034 ppm	-0.0040 ppm	0.0008 ppm	-0.0009 ppm	0.0041 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0032 ppm	-0.0050 ppm	0.0001 ppm	0.0001 ppm	0.0029 ppm
Recovery Percentage 1	-0.635 %	0.456 %	6.285 %	-0.185 %	1.721 %	-3.609 %	6.415 %
Concentration RSD	99.9 %	63.1 %	8.3 %	38.3 %	84.8 %	136.2 %	25.8 %

	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	-0.0014 ppm	-0.0038 ppm	0.0024 ppm	0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 1	-0.0005 ppm	-0.0037 ppm	0.0016 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 2	-0.0020 ppm	-0.0036 ppm	0.0025 ppm	0.0001 ppm	0.0001 ppm	0.0008 ppm	0.0002 ppm
Concentration per Run 3	-0.0016 ppm	-0.0041 ppm	0.0031 ppm	0.0002 ppm	0.0002 ppm	0.0006 ppm	-0.0001 ppm
Recovery Percentage 1	-13.540 %	-0.760 %	4.793 %	0.823 %	1.084 %	2.671 %	0.383 %
Concentration RSD	59.7 %	6.5 %	30.0 %	78.0 %	79.1 %	68.9 %	268.4 %

	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	0.0004 ppm	97.8025 %	100.3053 %	95.3406 %	101.5293 %	101.9403 %	100.9176 %
Concentration per Run 1	0.0004 ppm	102.2515 %	100.9200 %	94.7000 %	108.8845 %	102.2324 %	100.7070 %
Concentration per Run 2	0.0004 ppm	93.6833 %	99.1628 %	95.7394 %	95.7930 %	101.2698 %	101.5502 %
Concentration per Run 3	0.0004 ppm	97.4727 %	100.8332 %	95.5824 %	99.9103 %	102.3187 %	100.4958 %
Recovery Percentage 1	8.158 %						
Concentration RSD	7.2 %	4.4 %	1.0 %	0.6 %	6.6 %	0.6 %	0.6 %

iCAP Pro Trace 8 Data report

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LabBook: WG2011105_12192024T8.imexp

Sample: L2473162-03 WG2010403
Analysis started at: 12/19/2024 12:33:42 PM
Rack 1
Vial 54
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	0.0006 ppm	0.0221 ppm	0.0355 ppm	0.0000 ppm	24.7798 ppm
Concentration per Run 1	0.0004 ppm	0.0048 ppm	-0.0001 ppm	0.0236 ppm	0.0357 ppm	0.0000 ppm	24.9530 ppm
Concentration per Run 2	0.0004 ppm	0.0027 ppm	-0.0001 ppm	0.0223 ppm	0.0354 ppm	0.0000 ppm	24.8957 ppm
Concentration per Run 3	-0.0001 ppm	0.0047 ppm	0.0021 ppm	0.0204 ppm	0.0355 ppm	0.0000 ppm	24.4906 ppm
Concentration RSD	117.8 %	28.8 %	201.4 %	7.3 %	0.5 %	124.2 %	1.0 %

	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	0.0003 ppm	0.0007 ppm	0.0007 ppm	0.0030 ppm	2.9316 ppm	0.0002 ppm
Concentration per Run 1	-0.0002 ppm	0.0002 ppm	0.0006 ppm	0.0008 ppm	0.0043 ppm	2.9662 ppm	0.0006 ppm
Concentration per Run 2	-0.0002 ppm	0.0006 ppm	0.0007 ppm	0.0006 ppm	0.0019 ppm	2.8991 ppm	0.0001 ppm
Concentration per Run 3	-0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0007 ppm	0.0028 ppm	2.9297 ppm	0.0001 ppm
Concentration RSD	56.1 %	78.6 %	8.6 %	9.2 %	39.4 %	1.1 %	128.7 %

	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	4.5789 ppm	0.0005 ppm	0.0001 ppm	9.2767 ppm	0.0004 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 1	4.6260 ppm	0.0005 ppm	0.0001 ppm	9.3585 ppm	0.0010 ppm	-0.0012 ppm	0.0012 ppm
Concentration per Run 2	4.5798 ppm	0.0004 ppm	-0.0001 ppm	9.1954 ppm	0.0000 ppm	0.0011 ppm	-0.0021 ppm
Concentration per Run 3	4.5311 ppm	0.0005 ppm	0.0003 ppm	9.2762 ppm	0.0003 ppm	-0.0003 ppm	0.0010 ppm
Concentration RSD	1.0 %	10.3 %	223.8 %	0.9 %	116.8 %	733.1 %	6,905.7 %

	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	3.7438 ppm	0.0001 ppm	0.0802 ppm	-0.0003 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 1	-0.0001 ppm	3.7781 ppm	0.0000 ppm	0.0808 ppm	-0.0002 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run 2	0.0008 ppm	3.7571 ppm	-0.0006 ppm	0.0798 ppm	-0.0003 ppm	-0.0001 ppm	0.0004 ppm
Concentration per Run 3	-0.0013 ppm	3.6962 ppm	0.0009 ppm	0.0800 ppm	-0.0004 ppm	0.0001 ppm	0.0005 ppm
Concentration RSD	503.4 %	1.1 %	580.9 %	0.7 %	37.6 %	195.2 %	64.0 %

	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	92.5583 %	98.6799 %	90.0775 %	98.2943 %	102.2212 %	99.5373 %
Concentration per Run 1	0.0023 ppm	91.4407 %	98.0436 %	89.8973 %	97.9044 %	101.9759 %	100.2594 %
Concentration per Run 2	0.0016 ppm	92.7154 %	98.2072 %	89.8659 %	98.7641 %	101.9345 %	99.1224 %
Concentration per Run 3	0.0018 ppm	93.5190 %	99.7888 %	90.4691 %	98.2145 %	102.7533 %	99.2303 %
Concentration RSD	17.5 %	1.1 %	1.0 %	0.4 %	0.4 %	0.5 %	0.6 %

iCAP Pro Trace 8 Data report

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LabBook: WG2011105_12192024T8.imexp

Sample: L2473162-04 WG2010403
Analysis started at: 12/19/2024 12:38:14 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	0.0002 ppm	0.0004 ppm	0.0025 ppm	0.0303 ppm	0.0224 ppm	0.0000 ppm	10.5585 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	0.0034 ppm	0.0309 ppm	0.0224 ppm	0.0000 ppm	10.6052 ppm
Concentration per Run 2	0.0003 ppm	0.0007 ppm	0.0019 ppm	0.0294 ppm	0.0224 ppm	0.0000 ppm	10.5562 ppm
Concentration per Run 3	0.0003 ppm	0.0000 ppm	0.0023 ppm	0.0306 ppm	0.0224 ppm	0.0000 ppm	10.5141 ppm
Concentration RSD	100.3 %	103.4 %	31.8 %	2.6 %	0.1 %	116.2 %	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	0.0000 ppm	0.0029 ppm	0.0000 ppm	0.0007 ppm	2.1930 ppm	0.9903 ppm	0.0010 ppm
Concentration per Run 1	-0.0001 ppm	0.0033 ppm	-0.0003 ppm	0.0008 ppm	2.1921 ppm	0.9939 ppm	0.0014 ppm
Concentration per Run 2	0.0000 ppm	0.0029 ppm	0.0003 ppm	0.0007 ppm	2.1968 ppm	0.9910 ppm	0.0010 ppm
Concentration per Run 3	0.0000 ppm	0.0026 ppm	0.0000 ppm	0.0006 ppm	2.1900 ppm	0.9861 ppm	0.0006 ppm
Concentration RSD	5,021.2 %	12.8 %	1,067.8 %	9.9 %	0.2 %	0.4 %	38.3 %

	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	5.0535 ppm	0.0353 ppm	-0.0004 ppm	8.8283 ppm	0.0022 ppm	-0.0007 ppm	0.0012 ppm
Concentration per Run 1	5.1128 ppm	0.0353 ppm	-0.0003 ppm	8.8246 ppm	0.0022 ppm	-0.0010 ppm	-0.0005 ppm
Concentration per Run 2	5.0688 ppm	0.0352 ppm	-0.0007 ppm	8.8813 ppm	0.0019 ppm	-0.0005 ppm	0.0017 ppm
Concentration per Run 3	4.9788 ppm	0.0352 ppm	-0.0003 ppm	8.7791 ppm	0.0024 ppm	-0.0006 ppm	0.0024 ppm
Concentration RSD	1.4 %	0.1 %	62.9 %	0.6 %	13.1 %	35.4 %	127.6 %

	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	-0.0005 ppm	8.3949 ppm	-0.0001 ppm	0.0415 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	-0.0013 ppm	8.4851 ppm	0.0001 ppm	0.0416 ppm	-0.0003 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 2	-0.0007 ppm	8.4150 ppm	0.0002 ppm	0.0415 ppm	-0.0001 ppm	-0.0010 ppm	-0.0001 ppm
Concentration per Run 3	0.0006 ppm	8.2845 ppm	-0.0006 ppm	0.0415 ppm	-0.0003 ppm	0.0007 ppm	0.0000 ppm
Concentration RSD	215.6 %	1.2 %	326.8 %	0.2 %	38.8 %	2,001.9 %	354.9 %

	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	0.0058 ppm	93.2797 %	99.3578 %	90.8547 %	98.5856 %	102.0859 %	99.8380 %
Concentration per Run 1	0.0060 ppm	92.3864 %	99.2435 %	90.3843 %	99.0944 %	102.1185 %	100.0103 %
Concentration per Run 2	0.0058 ppm	93.1278 %	99.3738 %	90.6333 %	98.5570 %	101.8212 %	99.5524 %
Concentration per Run 3	0.0057 ppm	94.3250 %	99.4562 %	91.5465 %	98.1055 %	102.3181 %	99.9513 %
Concentration RSD	2.2 %	1.0 %	0.1 %	0.7 %	0.5 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

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LabBook: WG2011105_12192024T8.imexp

Sample: L2473162-05 WG2010403
Analysis started at: 12/19/2024 12:42:40 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	0.0002 ppm	-0.0013 ppm	0.0006 ppm	0.0238 ppm	0.0209 ppm	0.0000 ppm	22.6863 ppm
Concentration per Run 1	0.0001 ppm	-0.0021 ppm	-0.0002 ppm	0.0241 ppm	0.0212 ppm	0.0000 ppm	22.8461 ppm
Concentration per Run 2	0.0003 ppm	0.0028 ppm	0.0013 ppm	0.0232 ppm	0.0208 ppm	0.0000 ppm	22.6078 ppm
Concentration per Run 3	0.0001 ppm	-0.0046 ppm	0.0008 ppm	0.0240 ppm	0.0208 ppm	0.0000 ppm	22.6051 ppm
Concentration RSD	76.2 %	283.3 %	120.9 %	2.1 %	1.0 %	78.6 %	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	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0007 ppm	0.0038 ppm	2.2710 ppm	0.0001 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0009 ppm	0.0027 ppm	2.2937 ppm	0.0002 ppm
Concentration per Run 2	-0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0007 ppm	0.0037 ppm	2.2583 ppm	0.0000 ppm
Concentration per Run 3	-0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0049 ppm	2.2612 ppm	0.0001 ppm
Concentration RSD	35.4 %	120.5 %	256.3 %	18.9 %	28.6 %	0.9 %	137.3 %

	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	6.8377 ppm	0.0002 ppm	0.0000 ppm	13.6407 ppm	0.0006 ppm	-0.0001 ppm	0.0004 ppm
Concentration per Run 1	6.9112 ppm	0.0002 ppm	-0.0002 ppm	13.6479 ppm	0.0008 ppm	-0.0005 ppm	0.0017 ppm
Concentration per Run 2	6.8434 ppm	0.0002 ppm	-0.0001 ppm	13.6154 ppm	0.0000 ppm	0.0002 ppm	-0.0007 ppm
Concentration per Run 3	6.7585 ppm	0.0002 ppm	0.0002 ppm	13.6587 ppm	0.0010 ppm	0.0001 ppm	0.0001 ppm
Concentration RSD	1.1 %	14.6 %	617.8 %	0.2 %	90.1 %	609.2 %	320.6 %

	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	4.1308 ppm	-0.0005 ppm	0.0900 ppm	-0.0002 ppm	-0.0003 ppm	0.0006 ppm
Concentration per Run 1	-0.0013 ppm	4.1576 ppm	-0.0006 ppm	0.0904 ppm	-0.0001 ppm	-0.0001 ppm	0.0005 ppm
Concentration per Run 2	0.0004 ppm	4.1407 ppm	-0.0008 ppm	0.0898 ppm	-0.0003 ppm	-0.0003 ppm	0.0005 ppm
Concentration per Run 3	0.0018 ppm	4.0939 ppm	-0.0001 ppm	0.0899 ppm	-0.0002 ppm	-0.0004 ppm	0.0007 ppm
Concentration RSD	555.1 %	0.8 %	65.1 %	0.3 %	51.6 %	64.4 %	17.5 %

	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	0.0017 ppm	92.0761 %	98.5080 %	88.6755 %	97.4361 %	102.0328 %	98.6441 %
Concentration per Run 1	0.0017 ppm	91.4331 %	97.5848 %	87.9499 %	98.3042 %	101.7308 %	98.6418 %
Concentration per Run 2	0.0017 ppm	91.8395 %	98.7286 %	88.6850 %	96.7664 %	102.0554 %	98.6845 %
Concentration per Run 3	0.0018 ppm	92.9558 %	99.2105 %	89.3916 %	97.2376 %	102.3123 %	98.6060 %
Concentration RSD	3.2 %	0.9 %	0.8 %	0.8 %	0.8 %	0.3 %	0.0 %

iCAP Pro Trace 8 Data report

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LabBook: WG2011105_12192024T8.imexp

Sample: L2473162-08 WG2010403
Analysis started at: 12/19/2024 12:47:06 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	0.0000 ppm	-0.0006 ppm	0.0003 ppm	0.0252 ppm	0.0886 ppm	0.0000 ppm	104.7633 ppm
Concentration per Run 1	0.0000 ppm	-0.0010 ppm	0.0007 ppm	0.0253 ppm	0.0882 ppm	0.0000 ppm	104.5732 ppm
Concentration per Run 2	-0.0001 ppm	-0.0012 ppm	0.0006 ppm	0.0251 ppm	0.0895 ppm	0.0000 ppm	105.2791 ppm
Concentration per Run 3	0.0001 ppm	0.0004 ppm	-0.0005 ppm	0.0252 ppm	0.0880 ppm	0.0000 ppm	104.4375 ppm
Concentration RSD	1,212.8 %	135.8 %	269.3 %	0.4 %	0.9 %	34.0 %	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	-0.0006 ppm	0.0002 ppm	0.0002 ppm	0.0011 ppm	0.0042 ppm	3.0081 ppm	-0.0001 ppm
Concentration per Run 1	-0.0006 ppm	0.0001 ppm	0.0001 ppm	0.0012 ppm	0.0046 ppm	2.9881 ppm	0.0001 ppm
Concentration per Run 2	-0.0006 ppm	0.0001 ppm	0.0003 ppm	0.0010 ppm	0.0036 ppm	3.0492 ppm	-0.0004 ppm
Concentration per Run 3	-0.0006 ppm	0.0002 ppm	0.0001 ppm	0.0011 ppm	0.0043 ppm	2.9871 ppm	0.0001 ppm
Concentration RSD	2.1 %	34.7 %	69.3 %	7.6 %	11.3 %	1.2 %	477.7 %

	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	23.6134 ppm	0.0002 ppm	-0.0003 ppm	5.1027 ppm	0.0006 ppm	-0.0001 ppm	0.0007 ppm
Concentration per Run 1	23.9216 ppm	0.0001 ppm	0.0000 ppm	5.1076 ppm	0.0005 ppm	-0.0003 ppm	0.0006 ppm
Concentration per Run 2	23.5421 ppm	0.0003 ppm	-0.0005 ppm	5.1571 ppm	0.0005 ppm	0.0005 ppm	0.0001 ppm
Concentration per Run 3	23.3764 ppm	0.0002 ppm	-0.0005 ppm	5.0435 ppm	0.0008 ppm	-0.0004 ppm	0.0013 ppm
Concentration RSD	1.2 %	47.8 %	79.5 %	1.1 %	33.0 %	800.7 %	90.8 %

	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	5.7948 ppm	-0.0007 ppm	0.2642 ppm	-0.0004 ppm	-0.0009 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	5.8482 ppm	-0.0010 ppm	0.2627 ppm	-0.0004 ppm	-0.0020 ppm	0.0000 ppm
Concentration per Run 2	0.0008 ppm	5.7648 ppm	-0.0008 ppm	0.2675 ppm	-0.0004 ppm	-0.0006 ppm	0.0002 ppm
Concentration per Run 3	0.0013 ppm	5.7712 ppm	-0.0003 ppm	0.2622 ppm	-0.0004 ppm	-0.0002 ppm	0.0003 ppm
Concentration RSD	94.1 %	0.8 %	50.3 %	1.1 %	3.6 %	97.8 %	93.1 %

	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	0.0026 ppm	88.6409 %	96.4658 %	82.3515 %	94.1746 %	99.9444 %	95.0877 %
Concentration per Run 1	0.0026 ppm	87.6726 %	96.4392 %	81.6031 %	93.9262 %	100.2451 %	95.2328 %
Concentration per Run 2	0.0024 ppm	89.0949 %	96.1731 %	82.6721 %	95.0906 %	99.6513 %	95.1830 %
Concentration per Run 3	0.0027 ppm	89.1552 %	96.7850 %	82.7793 %	93.5069 %	99.9368 %	94.8473 %
Concentration RSD	5.7 %	0.9 %	0.3 %	0.8 %	0.9 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473162-09 WG2010403
Analysis started at: 12/19/2024 12:51:32 PM
Rack 1
Vial 58
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	-0.0006 ppm	0.0005 ppm	0.0202 ppm	0.0255 ppm	0.0000 ppm	11.4180 ppm
Concentration per Run 1	0.0002 ppm	0.0000 ppm	0.0013 ppm	0.0207 ppm	0.0256 ppm	0.0000 ppm	11.4247 ppm
Concentration per Run 2	0.0001 ppm	-0.0031 ppm	0.0004 ppm	0.0199 ppm	0.0253 ppm	0.0000 ppm	11.4908 ppm
Concentration per Run 3	0.0001 ppm	0.0014 ppm	-0.0003 ppm	0.0200 ppm	0.0256 ppm	0.0000 ppm	11.3384 ppm
Concentration RSD	12.8 %	415.7 %	171.6 %	2.3 %	0.8 %	136.8 %	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	-0.0001 ppm	0.0003 ppm	0.0012 ppm	0.0003 ppm	0.0036 ppm	1.1477 ppm	0.0012 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	0.0013 ppm	0.0004 ppm	0.0037 ppm	1.1511 ppm	0.0018 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0009 ppm	0.0003 ppm	0.0040 ppm	1.1510 ppm	0.0010 ppm
Concentration per Run 3	-0.0001 ppm	0.0001 ppm	0.0015 ppm	0.0002 ppm	0.0032 ppm	1.1410 ppm	0.0009 ppm
Concentration RSD	51.0 %	40.7 %	26.6 %	25.0 %	11.9 %	0.5 %	38.9 %

	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	5.5751 ppm	0.0003 ppm	-0.0004 ppm	14.7625 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	5.6850 ppm	0.0004 ppm	-0.0003 ppm	14.8288 ppm	0.0009 ppm	0.0006 ppm	0.0011 ppm
Concentration per Run 2	5.5741 ppm	0.0002 ppm	-0.0003 ppm	14.7679 ppm	0.0017 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 3	5.4663 ppm	0.0002 ppm	-0.0005 ppm	14.6907 ppm	0.0010 ppm	-0.0002 ppm	-0.0009 ppm
Concentration RSD	2.0 %	33.5 %	31.5 %	0.5 %	36.7 %	3,395.0 %	2,597.0 %

	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	8.2209 ppm	-0.0006 ppm	0.0569 ppm	-0.0003 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 1	-0.0003 ppm	8.3731 ppm	0.0003 ppm	0.0570 ppm	-0.0003 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 2	-0.0009 ppm	8.2062 ppm	-0.0015 ppm	0.0564 ppm	-0.0002 ppm	-0.0003 ppm	0.0003 ppm
Concentration per Run 3	0.0009 ppm	8.0834 ppm	-0.0006 ppm	0.0572 ppm	-0.0003 ppm	0.0000 ppm	0.0002 ppm
Concentration RSD	738.8 %	1.8 %	146.2 %	0.7 %	30.1 %	95.7 %	71.6 %

	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	0.0017 ppm	92.5595 %	98.4648 %	89.3977 %	98.0046 %	101.4949 %	99.4790 %
Concentration per Run 1	0.0017 ppm	91.1532 %	98.3909 %	88.3111 %	97.5105 %	101.7546 %	99.1238 %
Concentration per Run 2	0.0017 ppm	92.4185 %	97.9508 %	89.7293 %	98.0812 %	101.3294 %	99.7699 %
Concentration per Run 3	0.0017 ppm	94.1067 %	99.0527 %	90.1526 %	98.4220 %	101.4007 %	99.5433 %
Concentration RSD	0.9 %	1.6 %	0.6 %	1.1 %	0.5 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473162-07 WG2010403
Analysis started at: 12/19/2024 12:55:59 PM
Rack 1
Vial 46
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	-0.0022 ppm	0.0012 ppm	0.1014 ppm	0.0136 ppm	0.0000 ppm	18.6622 ppm
Concentration per Run 1	0.0002 ppm	-0.0038 ppm	0.0011 ppm	0.1038 ppm	0.0136 ppm	0.0000 ppm	18.6317 ppm
Concentration per Run 2	0.0001 ppm	-0.0011 ppm	0.0016 ppm	0.1011 ppm	0.0137 ppm	0.0000 ppm	18.8017 ppm
Concentration per Run 3	0.0000 ppm	-0.0017 ppm	0.0009 ppm	0.0993 ppm	0.0134 ppm	0.0000 ppm	18.5531 ppm
Concentration RSD	101.1 %	65.9 %	30.2 %	2.2 %	0.9 %	18.3 %	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	-0.0001 ppm	0.0002 ppm	0.0016 ppm	0.0008 ppm	0.0140 ppm	1.4390 ppm	0.0026 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	0.0016 ppm	0.0008 ppm	0.0150 ppm	1.4528 ppm	0.0022 ppm
Concentration per Run 2	-0.0001 ppm	0.0002 ppm	0.0015 ppm	0.0009 ppm	0.0132 ppm	1.4214 ppm	0.0028 ppm
Concentration per Run 3	-0.0002 ppm	0.0002 ppm	0.0018 ppm	0.0007 ppm	0.0137 ppm	1.4428 ppm	0.0028 ppm
Concentration RSD	31.4 %	27.1 %	8.5 %	10.7 %	6.7 %	1.1 %	12.5 %

	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	9.7678 ppm	0.0018 ppm	-0.0005 ppm	13.9900 ppm	0.0017 ppm	-0.0002 ppm	0.0020 ppm
Concentration per Run 1	9.9477 ppm	0.0018 ppm	-0.0009 ppm	14.0600 ppm	0.0019 ppm	-0.0001 ppm	0.0022 ppm
Concentration per Run 2	9.6982 ppm	0.0018 ppm	-0.0005 ppm	13.7681 ppm	0.0012 ppm	-0.0001 ppm	0.0017 ppm
Concentration per Run 3	9.6574 ppm	0.0020 ppm	-0.0002 ppm	14.1420 ppm	0.0020 ppm	-0.0004 ppm	0.0023 ppm
Concentration RSD	1.6 %	5.8 %	63.2 %	1.4 %	25.2 %	89.5 %	16.8 %

	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	-0.0017 ppm	10.6113 ppm	-0.0005 ppm	0.0916 ppm	-0.0003 ppm	-0.0005 ppm	0.0012 ppm
Concentration per Run 1	-0.0015 ppm	10.7900 ppm	-0.0004 ppm	0.0919 ppm	-0.0002 ppm	0.0003 ppm	0.0012 ppm
Concentration per Run 2	-0.0016 ppm	10.5281 ppm	-0.0002 ppm	0.0919 ppm	-0.0002 ppm	-0.0013 ppm	0.0015 ppm
Concentration per Run 3	-0.0018 ppm	10.5158 ppm	-0.0008 ppm	0.0909 ppm	-0.0003 ppm	-0.0007 ppm	0.0011 ppm
Concentration RSD	10.0 %	1.5 %	58.7 %	0.6 %	34.9 %	154.7 %	17.3 %

	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	0.0030 ppm	92.0787 %	98.8274 %	89.0578 %	97.5400 %	101.7448 %	98.9652 %
Concentration per Run 1	0.0030 ppm	90.4067 %	99.1118 %	87.3845 %	97.2604 %	102.3697 %	98.5848 %
Concentration per Run 2	0.0028 ppm	92.6102 %	98.0591 %	88.7711 %	97.7377 %	101.1231 %	98.9140 %
Concentration per Run 3	0.0033 ppm	93.2191 %	99.3111 %	91.0178 %	97.6219 %	101.7416 %	99.3970 %
Concentration RSD	7.6 %	1.6 %	0.7 %	2.1 %	0.3 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2010403-7 WG2010403
Analysis started at: 12/19/2024 1:00:25 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	0.0545 ppm	2.1398 ppm	0.1213 ppm	1.1556 ppm	2.0227 ppm	0.0526 ppm	28.5278 ppm
Concentration per Run 1	0.0551 ppm	2.1333 ppm	0.1227 ppm	1.1713 ppm	2.0209 ppm	0.0524 ppm	28.4434 ppm
Concentration per Run 2	0.0543 ppm	2.1588 ppm	0.1204 ppm	1.1439 ppm	2.0327 ppm	0.0529 ppm	28.6479 ppm
Concentration per Run 3	0.0540 ppm	2.1274 ppm	0.1208 ppm	1.1515 ppm	2.0145 ppm	0.0524 ppm	28.4923 ppm
Concentration RSD	1.0 %	0.8 %	1.0 %	1.2 %	0.5 %	0.5 %	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	0.0574 ppm	0.5409 ppm	0.2161 ppm	0.2742 ppm	1.0497 ppm	12.2691 ppm	0.0020 ppm
Concentration per Run 1	0.0584 ppm	0.5479 ppm	0.2184 ppm	0.2773 ppm	1.0413 ppm	12.1134 ppm	0.0021 ppm
Concentration per Run 2	0.0568 ppm	0.5368 ppm	0.2158 ppm	0.2727 ppm	1.0570 ppm	12.4271 ppm	0.0021 ppm
Concentration per Run 3	0.0569 ppm	0.5381 ppm	0.2142 ppm	0.2727 ppm	1.0508 ppm	12.2668 ppm	0.0018 ppm
Concentration RSD	1.6 %	1.1 %	1.0 %	1.0 %	0.8 %	1.3 %	9.4 %

	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	20.4343 ppm	0.5132 ppm	0.8689 ppm	24.2564 ppm	0.5272 ppm	0.5642 ppm	0.4610 ppm
Concentration per Run 1	20.6535 ppm	0.5121 ppm	0.8715 ppm	24.0745 ppm	0.5344 ppm	0.5709 ppm	0.4637 ppm
Concentration per Run 2	20.3759 ppm	0.5158 ppm	0.8592 ppm	24.5253 ppm	0.5233 ppm	0.5636 ppm	0.4549 ppm
Concentration per Run 3	20.2734 ppm	0.5118 ppm	0.8761 ppm	24.1694 ppm	0.5240 ppm	0.5583 ppm	0.4645 ppm
Concentration RSD	1.0 %	0.4 %	1.0 %	1.0 %	1.2 %	1.1 %	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	0.1232 ppm	11.3389 ppm	1.0114 ppm	1.0924 ppm	1.0715 ppm	0.1290 ppm	0.5507 ppm
Concentration per Run 1	0.1247 ppm	11.4618 ppm	1.0193 ppm	1.0918 ppm	1.0812 ppm	0.1314 ppm	0.5562 ppm
Concentration per Run 2	0.1214 ppm	11.2642 ppm	0.9997 ppm	1.0979 ppm	1.0698 ppm	0.1285 ppm	0.5492 ppm
Concentration per Run 3	0.1236 ppm	11.2905 ppm	1.0152 ppm	1.0876 ppm	1.0636 ppm	0.1270 ppm	0.5468 ppm
Concentration RSD	1.3 %	0.9 %	1.0 %	0.5 %	0.8 %	1.8 %	0.9 %

	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	0.5375 ppm	92.1201 %	99.2561 %	84.5560 %	95.1583 %	100.4733 %	96.5247 %
Concentration per Run 1	0.5435 ppm	91.4794 %	99.8522 %	83.6714 %	95.5605 %	101.3914 %	96.6148 %
Concentration per Run 2	0.5342 ppm	92.1692 %	98.6609 %	84.7278 %	94.9582 %	99.9357 %	96.6184 %
Concentration per Run 3	0.5347 ppm	92.7117 %	99.2552 %	85.2687 %	94.9562 %	100.0928 %	96.3409 %
Concentration RSD	1.0 %	0.7 %	0.6 %	1.0 %	0.4 %	0.8 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2010403-8 WG2010403
Analysis started at: 12/19/2024 1:04:52 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	0.0001 ppm	0.0011 ppm	0.0010 ppm	0.0999 ppm	0.0135 ppm	0.0000 ppm	18.3667 ppm
Concentration per Run 1	0.0001 ppm	-0.0011 ppm	0.0012 ppm	0.1006 ppm	0.0134 ppm	0.0000 ppm	18.2947 ppm
Concentration per Run 2	0.0001 ppm	0.0018 ppm	0.0005 ppm	0.0981 ppm	0.0136 ppm	0.0000 ppm	18.4979 ppm
Concentration per Run 3	0.0001 ppm	0.0025 ppm	0.0012 ppm	0.1011 ppm	0.0133 ppm	0.0000 ppm	18.3076 ppm
Concentration RSD	23.6 %	182.7 %	41.8 %	1.6 %	1.2 %	121.1 %	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	-0.0001 ppm	0.0002 ppm	0.0019 ppm	0.0007 ppm	0.0150 ppm	1.4275 ppm	0.0021 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	0.0020 ppm	0.0008 ppm	0.0146 ppm	1.4285 ppm	0.0021 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0018 ppm	0.0007 ppm	0.0151 ppm	1.4569 ppm	0.0024 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	0.0018 ppm	0.0007 ppm	0.0152 ppm	1.3970 ppm	0.0019 ppm
Concentration RSD	65.9 %	118.2 %	4.7 %	7.7 %	2.3 %	2.1 %	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	9.5490 ppm	0.0018 ppm	0.0064 ppm	13.8296 ppm	0.0012 ppm	0.0005 ppm	0.0046 ppm
Concentration per Run 1	9.7297 ppm	0.0017 ppm	0.0063 ppm	13.7608 ppm	0.0015 ppm	0.0002 ppm	0.0042 ppm
Concentration per Run 2	9.5064 ppm	0.0018 ppm	0.0064 ppm	14.0929 ppm	0.0014 ppm	0.0004 ppm	0.0061 ppm
Concentration per Run 3	9.4109 ppm	0.0019 ppm	0.0065 ppm	13.6350 ppm	0.0007 ppm	0.0010 ppm	0.0035 ppm
Concentration RSD	1.7 %	3.4 %	1.6 %	1.7 %	35.2 %	80.2 %	28.5 %

	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	-0.0002 ppm	10.3929 ppm	0.0040 ppm	0.0905 ppm	0.0002 ppm	-0.0001 ppm	0.0014 ppm
Concentration per Run 1	-0.0002 ppm	10.5426 ppm	0.0037 ppm	0.0901 ppm	0.0003 ppm	-0.0005 ppm	0.0013 ppm
Concentration per Run 2	-0.0007 ppm	10.3383 ppm	0.0035 ppm	0.0915 ppm	0.0002 ppm	0.0001 ppm	0.0015 ppm
Concentration per Run 3	0.0005 ppm	10.2977 ppm	0.0049 ppm	0.0897 ppm	0.0002 ppm	0.0001 ppm	0.0014 ppm
Concentration RSD	389.7 %	1.3 %	18.3 %	1.0 %	22.3 %	293.9 %	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	0.0018 ppm	92.1607 %	98.3410 %	88.2659 %	97.4191 %	101.3655 %	98.3341 %
Concentration per Run 1	0.0019 ppm	90.7236 %	98.6863 %	87.8373 %	97.0486 %	101.7741 %	98.7777 %
Concentration per Run 2	0.0017 ppm	92.6765 %	97.7643 %	88.1148 %	97.9684 %	101.3907 %	98.1476 %
Concentration per Run 3	0.0016 ppm	93.0820 %	98.5723 %	88.8455 %	97.2403 %	100.9316 %	98.0772 %
Concentration RSD	8.7 %	1.4 %	0.5 %	0.6 %	0.5 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2010403-9 WG2010403
Analysis started at: 12/19/2024 1:09:19 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	0.0548 ppm	2.1365 ppm	0.1244 ppm	1.2082 ppm	2.0755 ppm	0.0545 ppm	28.7877 ppm
Concentration per Run 1	0.0558 ppm	2.1525 ppm	0.1249 ppm	1.2312 ppm	2.0801 ppm	0.0545 ppm	28.7788 ppm
Concentration per Run 2	0.0547 ppm	2.1235 ppm	0.1228 ppm	1.2043 ppm	2.0617 ppm	0.0544 ppm	28.6734 ppm
Concentration per Run 3	0.0539 ppm	2.1336 ppm	0.1256 ppm	1.1891 ppm	2.0847 ppm	0.0547 ppm	28.9107 ppm
Concentration RSD	1.7 %	0.7 %	1.2 %	1.8 %	0.6 %	0.2 %	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	0.0578 ppm	0.5573 ppm	0.2223 ppm	0.2850 ppm	1.1125 ppm	12.9488 ppm	0.0024 ppm
Concentration per Run 1	0.0592 ppm	0.5671 ppm	0.2266 ppm	0.2890 ppm	1.1120 ppm	13.0037 ppm	0.0026 ppm
Concentration per Run 2	0.0577 ppm	0.5581 ppm	0.2213 ppm	0.2847 ppm	1.1119 ppm	12.9026 ppm	0.0020 ppm
Concentration per Run 3	0.0567 ppm	0.5467 ppm	0.2190 ppm	0.2813 ppm	1.1135 ppm	12.9402 ppm	0.0026 ppm
Concentration RSD	2.1 %	1.8 %	1.7 %	1.4 %	0.1 %	0.4 %	13.2 %

	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	20.8286 ppm	0.5423 ppm	0.9089 ppm	24.6697 ppm	0.5581 ppm	0.5818 ppm	0.4172 ppm
Concentration per Run 1	21.2618 ppm	0.5440 ppm	0.9115 ppm	24.9579 ppm	0.5684 ppm	0.5869 ppm	0.4158 ppm
Concentration per Run 2	20.7914 ppm	0.5386 ppm	0.9063 ppm	24.5028 ppm	0.5571 ppm	0.5799 ppm	0.4174 ppm
Concentration per Run 3	20.4326 ppm	0.5442 ppm	0.9087 ppm	24.5485 ppm	0.5488 ppm	0.5786 ppm	0.4184 ppm
Concentration RSD	2.0 %	0.6 %	0.3 %	1.0 %	1.8 %	0.8 %	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	0.1256 ppm	11.2343 ppm	1.0800 ppm	1.1552 ppm	1.1396 ppm	0.1331 ppm	0.5681 ppm
Concentration per Run 1	0.1249 ppm	11.4622 ppm	1.0929 ppm	1.1593 ppm	1.1587 ppm	0.1349 ppm	0.5758 ppm
Concentration per Run 2	0.1257 ppm	11.1699 ppm	1.0775 ppm	1.1471 ppm	1.1378 ppm	0.1316 ppm	0.5681 ppm
Concentration per Run 3	0.1263 ppm	11.0708 ppm	1.0695 ppm	1.1590 ppm	1.1222 ppm	0.1327 ppm	0.5602 ppm
Concentration RSD	0.6 %	1.8 %	1.1 %	0.6 %	1.6 %	1.2 %	1.4 %

	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	0.5672 ppm	92.1057 %	99.2252 %	84.0253 %	95.3655 %	100.1864 %	96.1775 %
Concentration per Run 1	0.5782 ppm	90.5464 %	99.5165 %	83.4494 %	94.9083 %	100.8724 %	96.2305 %
Concentration per Run 2	0.5674 ppm	92.2464 %	99.4596 %	84.5545 %	95.4861 %	100.2339 %	96.5469 %
Concentration per Run 3	0.5560 ppm	93.5242 %	98.6994 %	84.0722 %	95.7021 %	99.4529 %	95.7552 %
Concentration RSD	2.0 %	1.6 %	0.5 %	0.7 %	0.4 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2010403-10D5 WG2010403
Analysis started at: 12/19/2024 1:13:45 PM
Rack 1
Vial 50
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	0.0018 ppm	0.0193 ppm	0.0027 ppm	0.0000 ppm	3.5820 ppm
Concentration per Run 1	0.0000 ppm	-0.0023 ppm	0.0004 ppm	0.0193 ppm	0.0027 ppm	0.0000 ppm	3.6171 ppm
Concentration per Run 2	0.0003 ppm	0.0024 ppm	0.0029 ppm	0.0190 ppm	0.0027 ppm	0.0000 ppm	3.5601 ppm
Concentration per Run 3	0.0001 ppm	-0.0011 ppm	0.0022 ppm	0.0196 ppm	0.0027 ppm	0.0000 ppm	3.5689 ppm
Concentration RSD	83.5 %	726.5 %	71.9 %	1.6 %	0.8 %	71.5 %	0.9 %

	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	0.0002 ppm	0.0003 ppm	0.0002 ppm	0.0063 ppm	0.2748 ppm	0.0008 ppm
Concentration per Run 1	-0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0076 ppm	0.2792 ppm	0.0008 ppm
Concentration per Run 2	-0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0002 ppm	0.0056 ppm	0.2822 ppm	0.0007 ppm
Concentration per Run 3	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0058 ppm	0.2631 ppm	0.0008 ppm
Concentration RSD	24.3 %	94.5 %	68.2 %	15.0 %	17.1 %	3.7 %	12.2 %

	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	1.8054 ppm	0.0004 ppm	0.0084 ppm	2.6286 ppm	0.0005 ppm	-0.0005 ppm	0.0156 ppm
Concentration per Run 1	1.8269 ppm	0.0004 ppm	0.0086 ppm	2.6480 ppm	0.0008 ppm	-0.0004 ppm	0.0136 ppm
Concentration per Run 2	1.8006 ppm	0.0005 ppm	0.0085 ppm	2.6273 ppm	0.0004 ppm	-0.0007 ppm	0.0149 ppm
Concentration per Run 3	1.7886 ppm	0.0005 ppm	0.0081 ppm	2.6104 ppm	0.0004 ppm	-0.0004 ppm	0.0183 ppm
Concentration RSD	1.1 %	14.6 %	3.1 %	0.7 %	40.0 %	39.7 %	15.5 %

	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	-0.0007 ppm	1.8873 ppm	0.0116 ppm	0.0173 ppm	0.0004 ppm	-0.0008 ppm	0.0002 ppm
Concentration per Run 1	-0.0013 ppm	1.9105 ppm	0.0115 ppm	0.0175 ppm	0.0004 ppm	-0.0003 ppm	0.0002 ppm
Concentration per Run 2	0.0003 ppm	1.8830 ppm	0.0120 ppm	0.0173 ppm	0.0004 ppm	-0.0013 ppm	0.0001 ppm
Concentration per Run 3	-0.0010 ppm	1.8683 ppm	0.0113 ppm	0.0172 ppm	0.0004 ppm	-0.0008 ppm	0.0003 ppm
Concentration RSD	128.2 %	1.1 %	3.2 %	0.9 %	8.0 %	66.8 %	55.6 %

	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	0.0010 ppm	99.5601 %	102.1529 %	96.1419 %	98.9317 %	101.4417 %	100.1509 %
Concentration per Run 1	0.0009 ppm	98.4726 %	101.2564 %	95.4570 %	98.9067 %	101.3013 %	100.2035 %
Concentration per Run 2	0.0009 ppm	99.8607 %	102.3832 %	96.3014 %	98.9098 %	101.6883 %	100.1539 %
Concentration per Run 3	0.0012 ppm	100.3470 %	102.8193 %	96.6673 %	98.9787 %	101.3356 %	100.0952 %
Concentration RSD	18.8 %	1.0 %	0.8 %	0.6 %	0.0 %	0.2 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: CCV
Analysis started at: 12/19/2024 1:18:10 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	0.5008 ppm	0.4913 ppm	0.4815 ppm	0.4971 ppm	0.4829 ppm	0.5142 ppm	0.5133 ppm
Concentration per Run 1	0.5040 ppm	0.4932 ppm	0.4838 ppm	0.5026 ppm	0.4874 ppm	0.5177 ppm	0.5133 ppm
Concentration per Run 2	0.5015 ppm	0.4908 ppm	0.4775 ppm	0.4972 ppm	0.4805 ppm	0.5125 ppm	0.5114 ppm
Concentration per Run 3	0.4970 ppm	0.4898 ppm	0.4833 ppm	0.4915 ppm	0.4807 ppm	0.5125 ppm	0.5152 ppm
Recovery Percentage 1	100.169 %	98.253 %	96.305 %	99.421 %	96.574 %	102.846 %	102.659 %
Concentration RSD	0.7 %	0.4 %	0.7 %	1.1 %	0.8 %	0.6 %	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	0.5103 ppm	0.5225 ppm	0.5026 ppm	0.5007 ppm	0.5225 ppm	5.1009 ppm	0.4903 ppm
Concentration per Run 1	0.5145 ppm	0.5268 ppm	0.5047 ppm	0.5063 ppm	0.5251 ppm	5.1979 ppm	0.4992 ppm
Concentration per Run 2	0.5119 ppm	0.5234 ppm	0.5049 ppm	0.4995 ppm	0.5239 ppm	5.0480 ppm	0.4840 ppm
Concentration per Run 3	0.5046 ppm	0.5173 ppm	0.4983 ppm	0.4962 ppm	0.5185 ppm	5.0567 ppm	0.4876 ppm
Recovery Percentage 1	102.066 %	104.505 %	100.524 %	100.131 %	104.503 %	102.017 %	98.055 %
Concentration RSD	1.0 %	0.9 %	0.7 %	1.0 %	0.7 %	1.6 %	1.6 %

	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	0.5128 ppm	0.4994 ppm	0.5052 ppm	10.1347 ppm	0.5179 ppm	0.4921 ppm	0.5123 ppm
Concentration per Run 1	0.5178 ppm	0.5026 ppm	0.5051 ppm	10.3376 ppm	0.5221 ppm	0.4947 ppm	0.5186 ppm
Concentration per Run 2	0.5149 ppm	0.4969 ppm	0.5050 ppm	9.9808 ppm	0.5192 ppm	0.4952 ppm	0.5118 ppm
Concentration per Run 3	0.5055 ppm	0.4989 ppm	0.5056 ppm	10.0856 ppm	0.5125 ppm	0.4864 ppm	0.5063 ppm
Recovery Percentage 1	102.554 %	99.888 %	101.048 %	101.347 %	103.584 %	98.419 %	102.452 %
Concentration RSD	1.3 %	0.6 %	0.1 %	1.8 %	0.9 %	1.0 %	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	0.4909 ppm	5.6214 ppm	0.5389 ppm	0.5134 ppm	0.5077 ppm	0.4950 ppm	0.5023 ppm
Concentration per Run 1	0.4882 ppm	5.6589 ppm	0.5424 ppm	0.5182 ppm	0.5114 ppm	0.4959 ppm	0.5056 ppm
Concentration per Run 2	0.4926 ppm	5.6249 ppm	0.5409 ppm	0.5106 ppm	0.5109 ppm	0.4941 ppm	0.5038 ppm
Concentration per Run 3	0.4918 ppm	5.5804 ppm	0.5336 ppm	0.5114 ppm	0.5008 ppm	0.4950 ppm	0.4975 ppm
Recovery Percentage 1	98.171 %	107.074 %	107.788 %	102.681 %	101.540 %	99.002 %	100.460 %
Concentration RSD	0.5 %	0.7 %	0.9 %	0.8 %	1.2 %	0.2 %	0.9 %

	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	0.5140 ppm	100.8138 %	103.0111 %	95.0383 %	97.0112 %	100.7522 %	98.7773 %
Concentration per Run 1	0.5173 ppm	100.3960 %	102.3820 %	95.0746 %	97.7610 %	100.5688 %	99.1140 %
Concentration per Run 2	0.5161 ppm	100.6264 %	103.1763 %	94.3279 %	96.6837 %	100.5179 %	98.2013 %
Concentration per Run 3	0.5085 ppm	101.4189 %	103.4749 %	95.7123 %	96.5891 %	101.1699 %	99.0166 %
Recovery Percentage 1	102.796 %						
Concentration RSD	0.9 %	0.5 %	0.5 %	0.7 %	0.7 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: CCB
Analysis started at: 12/19/2024 1:22:36 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	0.0001 ppm	-0.0004 ppm	0.0009 ppm	0.0016 ppm	0.0000 ppm	0.0000 ppm	0.0016 ppm
Concentration per Run 1	0.0002 ppm	-0.0005 ppm	0.0007 ppm	0.0015 ppm	0.0000 ppm	0.0000 ppm	0.0021 ppm
Concentration per Run 2	0.0000 ppm	-0.0013 ppm	0.0013 ppm	0.0019 ppm	0.0000 ppm	0.0000 ppm	0.0020 ppm
Concentration per Run 3	0.0001 ppm	0.0006 ppm	0.0006 ppm	0.0014 ppm	0.0000 ppm	0.0001 ppm	0.0008 ppm
Recovery Percentage 1	2.041 %	-0.428 %	17.563 %	5.254 %	0.096 %	0.942 %	1.639 %
Concentration RSD	66.2 %	222.2 %	46.6 %	17.0 %	274.4 %	24.7 %	42.8 %

	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	0.0003 ppm	0.0001 ppm	0.0001 ppm	0.0076 ppm	-0.0006 ppm	-0.0002 ppm
Concentration per Run 1	0.0001 ppm	0.0004 ppm	0.0000 ppm	0.0002 ppm	0.0067 ppm	-0.0063 ppm	0.0000 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	0.0001 ppm	0.0002 ppm	0.0076 ppm	0.0093 ppm	-0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0001 ppm	-0.0001 ppm	0.0084 ppm	-0.0048 ppm	-0.0004 ppm
Recovery Percentage 1	0.737 %	3.329 %	0.580 %	1.033 %	15.132 %	-0.024 %	-2.205 %
Concentration RSD	192.8 %	28.0 %	138.3 %	166.4 %	11.9 %	1,446.8 %	90.1 %

	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	-0.0002 ppm	0.0000 ppm	0.0027 ppm	-0.0042 ppm	0.0002 ppm	-0.0001 ppm	0.0035 ppm
Concentration per Run 1	0.0009 ppm	0.0001 ppm	0.0026 ppm	-0.0048 ppm	0.0004 ppm	-0.0008 ppm	0.0020 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0025 ppm	-0.0045 ppm	-0.0001 ppm	0.0006 ppm	0.0033 ppm
Concentration per Run 3	-0.0015 ppm	0.0000 ppm	0.0028 ppm	-0.0031 ppm	0.0004 ppm	-0.0003 ppm	0.0054 ppm
Recovery Percentage 1	-0.186 %	0.462 %	5.312 %	-0.208 %	0.819 %	-1.291 %	7.056 %
Concentration RSD	645.1 %	147.7 %	6.7 %	22.1 %	137.9 %	537.4 %	48.9 %

	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	-0.0003 ppm	-0.0041 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0008 ppm	0.0000 ppm
Concentration per Run 1	-0.0011 ppm	-0.0046 ppm	0.0008 ppm	0.0000 ppm	0.0002 ppm	-0.0011 ppm	0.0002 ppm
Concentration per Run 2	0.0012 ppm	-0.0033 ppm	0.0004 ppm	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 3	-0.0008 ppm	-0.0044 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0010 ppm	-0.0001 ppm
Recovery Percentage 1	-2.503 %	-0.819 %	0.810 %	0.092 %	0.057 %	-3.952 %	0.436 %
Concentration RSD	518.6 %	16.6 %	90.3 %	205.3 %	3,744.1 %	62.6 %	386.4 %

	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	97.0187 %	100.6808 %	95.9786 %	100.0126 %	101.6885 %	101.0571 %
Concentration per Run 1	0.0007 ppm	95.3171 %	100.0250 %	94.8928 %	99.2618 %	101.4338 %	101.0927 %
Concentration per Run 2	0.0003 ppm	97.2877 %	100.5445 %	96.1946 %	100.1819 %	101.6144 %	101.1038 %
Concentration per Run 3	0.0005 ppm	98.4513 %	101.4728 %	96.8484 %	100.5941 %	102.0174 %	100.9749 %
Recovery Percentage 1	9.948 %						
Concentration RSD	42.0 %	1.6 %	0.7 %	1.0 %	0.7 %	0.3 %	0.1 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473162-10 WG2010403
Analysis started at: 12/19/2024 1:27:02 PM
Rack 1
Vial 59
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	0.0070 ppm	0.0006 ppm	0.0012 ppm	0.0004 ppm	0.0000 ppm	0.0125 ppm
Concentration per Run 1	0.0000 ppm	0.0072 ppm	0.0004 ppm	0.0011 ppm	0.0003 ppm	0.0000 ppm	0.0117 ppm
Concentration per Run 2	0.0002 ppm	0.0053 ppm	0.0008 ppm	0.0010 ppm	0.0004 ppm	0.0000 ppm	0.0115 ppm
Concentration per Run 3	0.0000 ppm	0.0086 ppm	0.0006 ppm	0.0014 ppm	0.0004 ppm	0.0000 ppm	0.0144 ppm
Concentration RSD	141.9 %	23.2 %	39.4 %	16.6 %	11.9 %	239.1 %	13.0 %

	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	-0.0001 ppm	0.0000 ppm	0.0006 ppm	0.0093 ppm	-0.0119 ppm	-0.0001 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0006 ppm	0.0098 ppm	-0.0119 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0005 ppm	0.0089 ppm	-0.0162 ppm	-0.0002 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0006 ppm	0.0093 ppm	-0.0076 ppm	0.0000 ppm
Concentration RSD	199.9 %	246.3 %	798.3 %	11.2 %	5.2 %	36.0 %	145.0 %

	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	0.0029 ppm	0.0004 ppm	0.0002 ppm	0.0022 ppm	0.0002 ppm	-0.0002 ppm	0.0007 ppm
Concentration per Run 1	0.0022 ppm	0.0005 ppm	0.0002 ppm	0.0014 ppm	0.0001 ppm	-0.0003 ppm	0.0007 ppm
Concentration per Run 2	0.0035 ppm	0.0005 ppm	0.0000 ppm	0.0027 ppm	0.0001 ppm	-0.0005 ppm	0.0006 ppm
Concentration per Run 3	0.0030 ppm	0.0004 ppm	0.0003 ppm	0.0027 ppm	0.0004 ppm	0.0002 ppm	0.0007 ppm
Concentration RSD	21.6 %	13.0 %	107.5 %	34.0 %	82.1 %	197.4 %	9.6 %

	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	0.0001 ppm	0.0077 ppm	0.0003 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 1	-0.0005 ppm	0.0086 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 2	0.0017 ppm	0.0072 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 3	-0.0010 ppm	0.0071 ppm	-0.0005 ppm	0.0001 ppm	0.0003 ppm	-0.0007 ppm	0.0001 ppm
Concentration RSD	1,550.1 %	10.7 %	250.0 %	58.0 %	190.6 %	425.4 %	1,436.5 %

	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	0.0011 ppm	94.4854 %	100.4288 %	96.5435 %	101.2585 %	103.3677 %	104.2348 %
Concentration per Run 1	0.0011 ppm	93.6035 %	99.5429 %	93.0896 %	101.5291 %	102.9382 %	101.6546 %
Concentration per Run 2	0.0011 ppm	94.3327 %	101.2381 %	99.2996 %	101.2697 %	104.1920 %	107.3857 %
Concentration per Run 3	0.0012 ppm	95.5201 %	100.5053 %	97.2414 %	100.9766 %	102.9731 %	103.6641 %
Concentration RSD	1.4 %	1.0 %	0.8 %	3.3 %	0.3 %	0.7 %	2.8 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473015-15D2 WG2010388
Analysis started at: 12/19/2024 1:31:29 PM
Rack 2
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	0.0019 ppm	68.9444 ppm	0.0756 ppm	0.1331 ppm	1.2027 ppm	0.0109 ppm	67.7765 ppm
Concentration per Run 1	0.0020 ppm	69.6797 ppm	0.0766 ppm	0.1346 ppm	1.2096 ppm	0.0110 ppm	68.0572 ppm
Concentration per Run 2	0.0018 ppm	68.2790 ppm	0.0760 ppm	0.1348 ppm	1.1945 ppm	0.0109 ppm	67.6700 ppm
Concentration per Run 3	0.0020 ppm	68.8745 ppm	0.0743 ppm	0.1301 ppm	1.2041 ppm	0.0109 ppm	67.6025 ppm
Concentration RSD	5.2 %	1.0 %	1.5 %	2.0 %	0.6 %	0.4 %	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	0.0020 ppm	0.0802 ppm	0.1037 ppm	0.1859 ppm	275.0108 ppm	13.0969 ppm	0.1902 ppm
Concentration per Run 1	0.0020 ppm	0.0802 ppm	0.1040 ppm	0.1869 ppm	274.5791 ppm	13.2166 ppm	0.1929 ppm
Concentration per Run 2	0.0021 ppm	0.0807 ppm	0.1039 ppm	0.1856 ppm	274.9185 ppm	12.9901 ppm	0.1871 ppm
Concentration per Run 3	0.0018 ppm	0.0796 ppm	0.1030 ppm	0.1851 ppm	275.5347 ppm	13.0839 ppm	0.1905 ppm
Concentration RSD	7.8 %	0.7 %	0.5 %	0.5 %	0.2 %	0.9 %	1.5 %

	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	20.2836 ppm	6.3385 ppm	0.0426 ppm	1.7083 ppm	0.2103 ppm	0.1296 ppm	0.0078 ppm
Concentration per Run 1	20.4619 ppm	6.3597 ppm	0.0427 ppm	1.7381 ppm	0.2108 ppm	0.1301 ppm	0.0085 ppm
Concentration per Run 2	20.3036 ppm	6.3255 ppm	0.0425 ppm	1.6790 ppm	0.2120 ppm	0.1292 ppm	0.0068 ppm
Concentration per Run 3	20.0854 ppm	6.3304 ppm	0.0425 ppm	1.7078 ppm	0.2080 ppm	0.1295 ppm	0.0082 ppm
Concentration RSD	0.9 %	0.3 %	0.3 %	1.7 %	1.0 %	0.3 %	11.8 %

	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	0.0002 ppm	4.7993 ppm	0.0062 ppm	0.3499 ppm	1.1816 ppm	-0.0032 ppm	0.1362 ppm
Concentration per Run 1	-0.0007 ppm	4.8900 ppm	0.0064 ppm	0.3515 ppm	1.1923 ppm	-0.0036 ppm	0.1376 ppm
Concentration per Run 2	0.0014 ppm	4.7887 ppm	0.0053 ppm	0.3478 ppm	1.1812 ppm	-0.0031 ppm	0.1354 ppm
Concentration per Run 3	0.0000 ppm	4.7193 ppm	0.0071 ppm	0.3503 ppm	1.1712 ppm	-0.0030 ppm	0.1355 ppm
Concentration RSD	430.2 %	1.8 %	14.5 %	0.5 %	0.9 %	10.0 %	0.9 %

	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	0.5481 ppm	101.8408 %	105.4300 %	82.1235 %	123.8613 %	133.3991 %	124.5231 %
Concentration per Run 1	0.5527 ppm	101.6261 %	105.1739 %	81.3171 %	124.1396 %	133.6962 %	123.9130 %
Concentration per Run 2	0.5499 ppm	101.6168 %	105.8735 %	82.4250 %	123.3121 %	133.7070 %	124.5738 %
Concentration per Run 3	0.5418 ppm	102.2795 %	105.2426 %	82.6285 %	124.1322 %	132.7941 %	125.0825 %
Concentration RSD	1.0 %	0.4 %	0.4 %	0.9 %	0.4 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473015-16D2 WG2010388
Analysis started at: 12/19/2024 1:35:55 PM
Rack 2
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	0.0007 ppm	28.6690 ppm	0.0540 ppm	0.0097 ppm	0.1606 ppm	0.0024 ppm	8.3319 ppm
Concentration per Run 1	0.0011 ppm	28.6454 ppm	0.0538 ppm	0.0098 ppm	0.1611 ppm	0.0024 ppm	8.3247 ppm
Concentration per Run 2	0.0009 ppm	28.5783 ppm	0.0536 ppm	0.0103 ppm	0.1593 ppm	0.0023 ppm	8.3469 ppm
Concentration per Run 3	0.0003 ppm	28.7833 ppm	0.0547 ppm	0.0090 ppm	0.1613 ppm	0.0024 ppm	8.3241 ppm
Concentration RSD	56.6 %	0.4 %	1.1 %	6.8 %	0.7 %	1.3 %	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	0.0005 ppm	0.0487 ppm	0.0615 ppm	0.0914 ppm	123.7962 ppm	2.1431 ppm	0.0564 ppm
Concentration per Run 1	0.0005 ppm	0.0492 ppm	0.0625 ppm	0.0934 ppm	123.7854 ppm	2.1771 ppm	0.0571 ppm
Concentration per Run 2	0.0005 ppm	0.0491 ppm	0.0613 ppm	0.0911 ppm	123.6347 ppm	2.1135 ppm	0.0553 ppm
Concentration per Run 3	0.0004 ppm	0.0479 ppm	0.0606 ppm	0.0897 ppm	123.9686 ppm	2.1387 ppm	0.0566 ppm
Concentration RSD	15.2 %	1.5 %	1.6 %	2.1 %	0.1 %	1.5 %	1.6 %

	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	13.9136 ppm	1.2026 ppm	0.0044 ppm	0.3527 ppm	0.1030 ppm	0.0431 ppm	0.0027 ppm
Concentration per Run 1	14.0625 ppm	1.1967 ppm	0.0045 ppm	0.3554 ppm	0.1054 ppm	0.0426 ppm	0.0021 ppm
Concentration per Run 2	13.9415 ppm	1.2065 ppm	0.0046 ppm	0.3475 ppm	0.1027 ppm	0.0431 ppm	0.0017 ppm
Concentration per Run 3	13.7368 ppm	1.2048 ppm	0.0042 ppm	0.3552 ppm	0.1010 ppm	0.0435 ppm	0.0042 ppm
Concentration RSD	1.2 %	0.4 %	4.0 %	1.3 %	2.2 %	1.0 %	50.6 %

	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	-0.0001 ppm	2.2998 ppm	0.0029 ppm	0.0412 ppm	0.3335 ppm	-0.0007 ppm	0.0870 ppm
Concentration per Run 1	-0.0006 ppm	2.3601 ppm	0.0030 ppm	0.0413 ppm	0.3373 ppm	-0.0004 ppm	0.0876 ppm
Concentration per Run 2	-0.0006 ppm	2.3138 ppm	0.0025 ppm	0.0408 ppm	0.3318 ppm	-0.0004 ppm	0.0869 ppm
Concentration per Run 3	0.0008 ppm	2.2256 ppm	0.0030 ppm	0.0415 ppm	0.3315 ppm	-0.0012 ppm	0.0865 ppm
Concentration RSD	600.5 %	3.0 %	9.9 %	0.9 %	1.0 %	71.5 %	0.6 %

	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	0.3079 ppm	102.5131 %	104.3293 %	90.6184 %	116.4409 %	120.9235 %	117.4979 %
Concentration per Run 1	0.3100 ppm	101.8859 %	104.8066 %	90.4139 %	116.2464 %	122.1104 %	117.6327 %
Concentration per Run 2	0.3108 ppm	102.4601 %	103.9436 %	90.9949 %	116.0820 %	119.9858 %	117.8475 %
Concentration per Run 3	0.3028 ppm	103.1934 %	104.2376 %	90.4464 %	116.9943 %	120.6744 %	117.0135 %
Concentration RSD	1.4 %	0.6 %	0.4 %	0.4 %	0.4 %	0.9 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473015-17D2 WG2010388
Analysis started at: 12/19/2024 1:40:22 PM
Rack 2
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	0.0009 ppm	12.2754 ppm	0.0235 ppm	0.0966 ppm	0.8475 ppm	0.0010 ppm	101.5946 ppm
Concentration per Run 1	0.0010 ppm	12.3857 ppm	0.0239 ppm	0.0975 ppm	0.8486 ppm	0.0010 ppm	101.5591 ppm
Concentration per Run 2	0.0006 ppm	12.2419 ppm	0.0239 ppm	0.0970 ppm	0.8456 ppm	0.0010 ppm	102.1326 ppm
Concentration per Run 3	0.0009 ppm	12.1987 ppm	0.0228 ppm	0.0954 ppm	0.8484 ppm	0.0010 ppm	101.0919 ppm
Concentration RSD	21.5 %	0.8 %	2.6 %	1.1 %	0.2 %	1.1 %	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	0.0028 ppm	0.0133 ppm	0.0728 ppm	0.1627 ppm	69.9120 ppm	5.5475 ppm	0.0149 ppm
Concentration per Run 1	0.0029 ppm	0.0134 ppm	0.0735 ppm	0.1643 ppm	70.0284 ppm	5.6084 ppm	0.0152 ppm
Concentration per Run 2	0.0028 ppm	0.0135 ppm	0.0729 ppm	0.1634 ppm	70.2108 ppm	5.4493 ppm	0.0143 ppm
Concentration per Run 3	0.0028 ppm	0.0131 ppm	0.0720 ppm	0.1604 ppm	69.4968 ppm	5.5848 ppm	0.0152 ppm
Concentration RSD	2.4 %	1.9 %	1.1 %	1.3 %	0.5 %	1.5 %	3.4 %

	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	9.5975 ppm	3.1112 ppm	0.0086 ppm	0.8625 ppm	0.0537 ppm	0.1097 ppm	0.0055 ppm
Concentration per Run 1	9.7378 ppm	3.1103 ppm	0.0087 ppm	0.8669 ppm	0.0543 ppm	0.1103 ppm	0.0046 ppm
Concentration per Run 2	9.6218 ppm	3.1219 ppm	0.0086 ppm	0.8479 ppm	0.0534 ppm	0.1095 ppm	0.0063 ppm
Concentration per Run 3	9.4330 ppm	3.1016 ppm	0.0085 ppm	0.8726 ppm	0.0534 ppm	0.1092 ppm	0.0056 ppm
Concentration RSD	1.6 %	0.3 %	1.3 %	1.5 %	0.9 %	0.5 %	16.0 %

	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	0.0031 ppm	3.2303 ppm	0.0096 ppm	0.3605 ppm	0.3603 ppm	-0.0059 ppm	0.0276 ppm
Concentration per Run 1	0.0034 ppm	3.2850 ppm	0.0099 ppm	0.3608 ppm	0.3645 ppm	-0.0054 ppm	0.0279 ppm
Concentration per Run 2	0.0036 ppm	3.2507 ppm	0.0096 ppm	0.3607 ppm	0.3620 ppm	-0.0059 ppm	0.0276 ppm
Concentration per Run 3	0.0025 ppm	3.1553 ppm	0.0094 ppm	0.3598 ppm	0.3543 ppm	-0.0064 ppm	0.0273 ppm
Concentration RSD	18.8 %	2.1 %	3.0 %	0.2 %	1.5 %	7.8 %	1.2 %

	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	0.7540 ppm	98.1457 %	101.9408 %	84.0438 %	97.1057 %	103.2363 %	95.4240 %
Concentration per Run 1	0.7651 ppm	97.5755 %	102.2545 %	84.1474 %	97.5438 %	103.1639 %	95.6030 %
Concentration per Run 2	0.7542 ppm	97.8556 %	101.5781 %	84.2309 %	96.7038 %	103.4031 %	95.7880 %
Concentration per Run 3	0.7427 ppm	99.0060 %	101.9899 %	83.7530 %	97.0694 %	103.1418 %	94.8811 %
Concentration RSD	1.5 %	0.8 %	0.3 %	0.3 %	0.4 %	0.1 %	0.5 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473015-18D2 WG2010388
Analysis started at: 12/19/2024 1:44:49 PM
Rack 2
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	0.0017 ppm	26.4722 ppm	0.0811 ppm	0.0096 ppm	0.3584 ppm	0.0031 ppm	24.6645 ppm
Concentration per Run 1	0.0018 ppm	26.6391 ppm	0.0825 ppm	0.0093 ppm	0.3584 ppm	0.0031 ppm	24.7392 ppm
Concentration per Run 2	0.0013 ppm	26.3983 ppm	0.0811 ppm	0.0098 ppm	0.3575 ppm	0.0031 ppm	24.5934 ppm
Concentration per Run 3	0.0019 ppm	26.3793 ppm	0.0799 ppm	0.0096 ppm	0.3592 ppm	0.0031 ppm	24.6608 ppm
Concentration RSD	20.2 %	0.5 %	1.6 %	2.4 %	0.2 %	0.6 %	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	0.0011 ppm	0.0633 ppm	0.0593 ppm	0.1120 ppm	242.6483 ppm	2.9285 ppm	0.0489 ppm
Concentration per Run 1	0.0013 ppm	0.0637 ppm	0.0598 ppm	0.1134 ppm	243.2250 ppm	2.9352 ppm	0.0497 ppm
Concentration per Run 2	0.0010 ppm	0.0628 ppm	0.0594 ppm	0.1116 ppm	241.7156 ppm	2.9321 ppm	0.0483 ppm
Concentration per Run 3	0.0010 ppm	0.0633 ppm	0.0588 ppm	0.1109 ppm	243.0043 ppm	2.9181 ppm	0.0489 ppm
Concentration RSD	14.3 %	0.7 %	0.8 %	1.1 %	0.3 %	0.3 %	1.5 %

	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	11.4075 ppm	5.7218 ppm	0.0061 ppm	0.4274 ppm	0.1228 ppm	0.0930 ppm	0.0041 ppm
Concentration per Run 1	11.4701 ppm	5.7284 ppm	0.0063 ppm	0.4265 ppm	0.1236 ppm	0.0929 ppm	0.0014 ppm
Concentration per Run 2	11.4117 ppm	5.7149 ppm	0.0057 ppm	0.4283 ppm	0.1230 ppm	0.0929 ppm	0.0059 ppm
Concentration per Run 3	11.3408 ppm	5.7219 ppm	0.0062 ppm	0.4275 ppm	0.1219 ppm	0.0932 ppm	0.0050 ppm
Concentration RSD	0.6 %	0.1 %	5.0 %	0.2 %	0.7 %	0.2 %	57.6 %

	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	-0.0024 ppm	3.3042 ppm	0.0047 ppm	0.0486 ppm	0.4973 ppm	-0.0058 ppm	0.0998 ppm
Concentration per Run 1	-0.0030 ppm	3.3629 ppm	0.0045 ppm	0.0485 ppm	0.4983 ppm	-0.0057 ppm	0.0998 ppm
Concentration per Run 2	-0.0012 ppm	3.3096 ppm	0.0045 ppm	0.0485 ppm	0.4988 ppm	-0.0059 ppm	0.1005 ppm
Concentration per Run 3	-0.0030 ppm	3.2401 ppm	0.0050 ppm	0.0488 ppm	0.4947 ppm	-0.0058 ppm	0.0992 ppm
Concentration RSD	43.0 %	1.9 %	6.9 %	0.4 %	0.5 %	1.1 %	0.7 %

	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	0.4563 ppm	101.6208 %	104.6492 %	86.4979 %	115.5886 %	122.7701 %	116.9016 %
Concentration per Run 1	0.4583 ppm	101.5346 %	104.4955 %	86.0531 %	116.0321 %	122.3114 %	116.4663 %
Concentration per Run 2	0.4558 ppm	101.2765 %	104.7133 %	86.3877 %	115.2020 %	123.1130 %	116.8652 %
Concentration per Run 3	0.4548 ppm	102.0513 %	104.7387 %	87.0528 %	115.5318 %	122.8860 %	117.3732 %
Concentration RSD	0.4 %	0.4 %	0.1 %	0.6 %	0.4 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: CCV
Analysis started at: 12/19/2024 1:49:16 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	0.5029 ppm	0.4954 ppm	0.4818 ppm	0.4990 ppm	0.4882 ppm	0.5163 ppm	0.5154 ppm
Concentration per Run 1	0.5086 ppm	0.5019 ppm	0.4800 ppm	0.5025 ppm	0.4900 ppm	0.5173 ppm	0.5159 ppm
Concentration per Run 2	0.5034 ppm	0.4910 ppm	0.4817 ppm	0.4994 ppm	0.4881 ppm	0.5154 ppm	0.5130 ppm
Concentration per Run 3	0.4967 ppm	0.4931 ppm	0.4837 ppm	0.4950 ppm	0.4864 ppm	0.5161 ppm	0.5173 ppm
Recovery Percentage 1	100.581 %	99.070 %	96.361 %	99.792 %	97.631 %	103.257 %	103.079 %
Concentration RSD	1.2 %	1.2 %	0.4 %	0.8 %	0.4 %	0.2 %	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	0.5089 ppm	0.5210 ppm	0.5043 ppm	0.5046 ppm	0.5438 ppm	5.1669 ppm	0.4973 ppm
Concentration per Run 1	0.5122 ppm	0.5268 ppm	0.5089 ppm	0.5107 ppm	0.5462 ppm	5.2230 ppm	0.5007 ppm
Concentration per Run 2	0.5126 ppm	0.5221 ppm	0.5062 ppm	0.5036 ppm	0.5445 ppm	5.1718 ppm	0.5009 ppm
Concentration per Run 3	0.5019 ppm	0.5141 ppm	0.4979 ppm	0.4996 ppm	0.5406 ppm	5.1059 ppm	0.4903 ppm
Recovery Percentage 1	101.784 %	104.199 %	100.862 %	100.929 %	108.752 %	103.339 %	99.464 %
Concentration RSD	1.2 %	1.2 %	1.1 %	1.1 %	0.5 %	1.1 %	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	0.5134 ppm	0.5023 ppm	0.5033 ppm	10.1394 ppm	0.5188 ppm	0.4943 ppm	0.5076 ppm
Concentration per Run 1	0.5168 ppm	0.5025 ppm	0.5033 ppm	10.2187 ppm	0.5233 ppm	0.4935 ppm	0.5103 ppm
Concentration per Run 2	0.5154 ppm	0.5004 ppm	0.5074 ppm	10.1584 ppm	0.5199 ppm	0.4944 ppm	0.5105 ppm
Concentration per Run 3	0.5081 ppm	0.5040 ppm	0.4994 ppm	10.0412 ppm	0.5132 ppm	0.4951 ppm	0.5021 ppm
Recovery Percentage 1	102.684 %	100.459 %	100.668 %	101.394 %	103.761 %	98.868 %	101.525 %
Concentration RSD	0.9 %	0.4 %	0.8 %	0.9 %	1.0 %	0.2 %	0.9 %

	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	0.4913 ppm	5.6351 ppm	0.5329 ppm	0.5165 ppm	0.5084 ppm	0.4945 ppm	0.5039 ppm
Concentration per Run 1	0.4896 ppm	5.6867 ppm	0.5362 ppm	0.5205 ppm	0.5135 ppm	0.4936 ppm	0.5083 ppm
Concentration per Run 2	0.4902 ppm	5.6480 ppm	0.5366 ppm	0.5165 ppm	0.5089 ppm	0.4932 ppm	0.5048 ppm
Concentration per Run 3	0.4941 ppm	5.5705 ppm	0.5260 ppm	0.5124 ppm	0.5028 ppm	0.4968 ppm	0.4985 ppm
Recovery Percentage 1	98.264 %	107.335 %	106.585 %	103.297 %	101.683 %	98.906 %	100.775 %
Concentration RSD	0.5 %	1.0 %	1.1 %	0.8 %	1.1 %	0.4 %	1.0 %

	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	0.5111 ppm	101.0613 %	102.2959 %	95.4481 %	97.0884 %	100.2444 %	99.3311 %
Concentration per Run 1	0.5151 ppm	100.0147 %	102.7193 %	94.8453 %	96.8295 %	100.8850 %	99.1297 %
Concentration per Run 2	0.5160 ppm	100.9060 %	102.3699 %	95.6179 %	96.7329 %	100.3593 %	99.7277 %
Concentration per Run 3	0.5023 ppm	102.2632 %	101.7985 %	95.8811 %	97.7030 %	99.4889 %	99.1359 %
Recovery Percentage 1	102.221 %						
Concentration RSD	1.5 %	1.1 %	0.5 %	0.6 %	0.6 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: CCB
Analysis started at: 12/19/2024 1:53:42 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	0.0001 ppm	0.0003 ppm	0.0019 ppm	0.0012 ppm	0.0000 ppm	0.0001 ppm	0.0015 ppm
Concentration per Run 1	0.0002 ppm	0.0018 ppm	0.0020 ppm	0.0014 ppm	0.0001 ppm	0.0001 ppm	0.0022 ppm
Concentration per Run 2	0.0000 ppm	-0.0022 ppm	0.0019 ppm	0.0008 ppm	0.0001 ppm	0.0001 ppm	0.0011 ppm
Concentration per Run 3	0.0001 ppm	0.0014 ppm	0.0017 ppm	0.0014 ppm	0.0000 ppm	0.0000 ppm	0.0014 ppm
Recovery Percentage 1	1.740 %	0.332 %	37.460 %	3.918 %	0.416 %	1.207 %	1.546 %
Concentration RSD	76.0 %	652.7 %	7.4 %	29.3 %	61.7 %	23.0 %	36.3 %

	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	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0084 ppm	-0.0048 ppm	0.0000 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0086 ppm	-0.0144 ppm	0.0000 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0083 ppm	0.0008 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0083 ppm	-0.0007 ppm	0.0000 ppm
Recovery Percentage 1	1.427 %	1.431 %	1.074 %	3.430 %	16.779 %	-0.191 %	0.420 %
Concentration RSD	36.5 %	43.9 %	91.2 %	45.8 %	1.9 %	175.7 %	65.6 %

	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	-0.0009 ppm	0.0000 ppm	0.0020 ppm	-0.0073 ppm	-0.0001 ppm	-0.0001 ppm	0.0032 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0017 ppm	-0.0090 ppm	0.0000 ppm	0.0002 ppm	0.0009 ppm
Concentration per Run 2	-0.0016 ppm	0.0001 ppm	0.0023 ppm	-0.0067 ppm	0.0003 ppm	-0.0005 ppm	0.0024 ppm
Concentration per Run 3	-0.0011 ppm	0.0000 ppm	0.0020 ppm	-0.0063 ppm	-0.0007 ppm	-0.0001 ppm	0.0063 ppm
Recovery Percentage 1	-0.873 %	0.168 %	3.989 %	-0.366 %	-0.581 %	-1.340 %	6.437 %
Concentration RSD	100.4 %	294.7 %	15.9 %	19.9 %	323.2 %	254.8 %	87.1 %

	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	-0.0004 ppm	-0.0022 ppm	0.0002 ppm	0.0001 ppm	0.0001 ppm	-0.0008 ppm	0.0000 ppm
Concentration per Run 1	-0.0014 ppm	-0.0023 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0009 ppm	0.0000 ppm
Concentration per Run 2	0.0001 ppm	-0.0023 ppm	0.0003 ppm	0.0001 ppm	0.0002 ppm	-0.0011 ppm	0.0000 ppm
Concentration per Run 3	0.0001 ppm	-0.0021 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0004 ppm	0.0000 ppm
Recovery Percentage 1	-4.191 %	-0.449 %	0.384 %	0.527 %	1.007 %	-4.068 %	-0.127 %
Concentration RSD	213.0 %	6.0 %	135.4 %	35.7 %	120.0 %	45.2 %	428.3 %

	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	0.0005 ppm	95.9350 %	100.5170 %	95.7681 %	98.2550 %	101.9802 %	101.2981 %
Concentration per Run 1	0.0005 ppm	93.8117 %	99.9729 %	95.1504 %	95.4264 %	101.7543 %	101.5544 %
Concentration per Run 2	0.0006 ppm	96.6134 %	100.2410 %	95.6589 %	100.1413 %	101.3980 %	101.0719 %
Concentration per Run 3	0.0006 ppm	97.3800 %	101.3370 %	96.4951 %	99.1973 %	102.7884 %	101.2680 %
Recovery Percentage 1	10.979 %						
Concentration RSD	13.1 %	2.0 %	0.7 %	0.7 %	2.5 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2010388-1 WG2010388
Analysis started at: 12/19/2024 1:59:09 PM
Rack 1
Vial 60
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	0.0193 ppm	0.0016 ppm	0.0010 ppm	0.0002 ppm	0.0000 ppm	0.0327 ppm
Concentration per Run 1	0.0001 ppm	0.0201 ppm	0.0007 ppm	0.0010 ppm	0.0002 ppm	0.0000 ppm	0.0317 ppm
Concentration per Run 2	0.0002 ppm	0.0188 ppm	0.0023 ppm	0.0012 ppm	0.0002 ppm	0.0000 ppm	0.0334 ppm
Concentration per Run 3	-0.0001 ppm	0.0192 ppm	0.0019 ppm	0.0007 ppm	0.0003 ppm	0.0000 ppm	0.0328 ppm
Recovery Percentage 1	1.153 %	19.343 %	32.756 %	3.185 %	2.393 %	0.472 %	32.657 %
Concentration RSD	289.0 %	3.3 %	49.7 %	28.2 %	13.1 %	98.5 %	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	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0464 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	-0.0001 ppm	0.0006 ppm	0.0003 ppm	0.0003 ppm	0.0470 ppm	0.0020 ppm	-0.0004 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	0.0003 ppm	-0.0001 ppm	0.0459 ppm	-0.0039 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0465 ppm	0.0020 ppm	0.0001 ppm
Recovery Percentage 1	-0.734 %	1.372 %	2.477 %	1.492 %	92.888 %	0.001 %	-0.303 %
Concentration RSD	159.4 %	343.2 %	51.2 %	123.0 %	1.1 %	13,545.1 %	1,067.7 %

	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	0.0087 ppm	0.0009 ppm	-0.0002 ppm	0.0024 ppm	0.0003 ppm	0.0000 ppm	0.0027 ppm
Concentration per Run 1	0.0099 ppm	0.0008 ppm	-0.0003 ppm	0.0029 ppm	0.0007 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 2	0.0075 ppm	0.0009 ppm	0.0000 ppm	0.0027 ppm	0.0001 ppm	-0.0001 ppm	0.0047 ppm
Concentration per Run 3	0.0087 ppm	0.0009 ppm	-0.0002 ppm	0.0018 ppm	0.0001 ppm	0.0001 ppm	0.0033 ppm
Recovery Percentage 1	8.688 %	8.614 %	-0.324 %	0.122 %	1.214 %	-0.363 %	5.457 %
Concentration RSD	13.5 %	5.1 %	67.8 %	24.2 %	110.0 %	442.3 %	83.4 %

	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	-0.0017 ppm	0.0191 ppm	0.0007 ppm	0.0001 ppm	0.0010 ppm	-0.0011 ppm	0.0000 ppm
Concentration per Run 1	-0.0016 ppm	0.0183 ppm	0.0004 ppm	0.0001 ppm	0.0009 ppm	-0.0021 ppm	0.0000 ppm
Concentration per Run 2	-0.0021 ppm	0.0179 ppm	0.0007 ppm	0.0001 ppm	0.0011 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 3	-0.0015 ppm	0.0212 ppm	0.0010 ppm	0.0002 ppm	0.0011 ppm	-0.0007 ppm	0.0000 ppm
Recovery Percentage 1	-17.299 %	3.828 %	1.346 %	1.249 %	10.461 %	-5.315 %	-0.027 %
Concentration RSD	20.9 %	9.4 %	42.4 %	18.1 %	12.9 %	84.3 %	1,643.4 %

	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	0.0011 ppm	101.7220 %	102.7973 %	97.2402 %	99.9459 %	101.8172 %	100.4762 %
Concentration per Run 1	0.0010 ppm	100.9342 %	102.7646 %	96.4474 %	100.2201 %	101.6504 %	100.1731 %
Concentration per Run 2	0.0012 ppm	102.1781 %	103.0891 %	97.4253 %	100.3947 %	102.1171 %	100.4070 %
Concentration per Run 3	0.0011 ppm	102.0538 %	102.5382 %	97.8481 %	99.2227 %	101.6841 %	100.8484 %
Recovery Percentage 1	21.441 %						
Concentration RSD	9.5 %	0.7 %	0.3 %	0.7 %	0.6 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2010388-2D2 WG2010388
Analysis started at: 12/19/2024 2:03:40 PM
Rack 2
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	0.0536 ppm	2.1439 ppm	0.1265 ppm	1.0609 ppm	2.0287 ppm	0.0535 ppm	10.7486 ppm
Concentration per Run 1	0.0540 ppm	2.1552 ppm	0.1255 ppm	1.0693 ppm	2.0326 ppm	0.0538 ppm	10.7857 ppm
Concentration per Run 2	0.0538 ppm	2.1460 ppm	0.1279 ppm	1.0648 ppm	2.0345 ppm	0.0534 ppm	10.7391 ppm
Concentration per Run 3	0.0530 ppm	2.1304 ppm	0.1261 ppm	1.0485 ppm	2.0190 ppm	0.0533 ppm	10.7208 ppm
Concentration RSD	0.9 %	0.6 %	1.0 %	1.0 %	0.4 %	0.5 %	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	0.0581 ppm	0.5533 ppm	0.2197 ppm	0.2764 ppm	1.0972 ppm	10.8301 ppm	0.0007 ppm
Concentration per Run 1	0.0587 ppm	0.5579 ppm	0.2201 ppm	0.2791 ppm	1.1013 ppm	10.8756 ppm	0.0010 ppm
Concentration per Run 2	0.0582 ppm	0.5552 ppm	0.2214 ppm	0.2772 ppm	1.0952 ppm	10.8584 ppm	0.0007 ppm
Concentration per Run 3	0.0574 ppm	0.5468 ppm	0.2175 ppm	0.2729 ppm	1.0950 ppm	10.7563 ppm	0.0005 ppm
Concentration RSD	1.1 %	1.0 %	0.9 %	1.2 %	0.3 %	0.6 %	31.9 %

	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	11.2879 ppm	0.5229 ppm	1.1230 ppm	10.6948 ppm	0.5405 ppm	0.5736 ppm	0.5496 ppm
Concentration per Run 1	11.3832 ppm	0.5251 ppm	1.1190 ppm	10.7121 ppm	0.5423 ppm	0.5792 ppm	0.5517 ppm
Concentration per Run 2	11.3425 ppm	0.5218 ppm	1.1270 ppm	10.8643 ppm	0.5452 ppm	0.5731 ppm	0.5531 ppm
Concentration per Run 3	11.1380 ppm	0.5218 ppm	1.1229 ppm	10.5081 ppm	0.5341 ppm	0.5686 ppm	0.5440 ppm
Concentration RSD	1.2 %	0.4 %	0.4 %	1.7 %	1.1 %	0.9 %	0.9 %

	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	0.1245 ppm	0.9635 ppm	1.1082 ppm	1.0360 ppm	1.1207 ppm	0.1280 ppm	0.5588 ppm
Concentration per Run 1	0.1240 ppm	0.9681 ppm	1.1071 ppm	1.0430 ppm	1.1301 ppm	0.1289 ppm	0.5635 ppm
Concentration per Run 2	0.1237 ppm	0.9690 ppm	1.1143 ppm	1.0349 ppm	1.1249 ppm	0.1280 ppm	0.5604 ppm
Concentration per Run 3	0.1258 ppm	0.9535 ppm	1.1032 ppm	1.0301 ppm	1.1072 ppm	0.1272 ppm	0.5524 ppm
Concentration RSD	0.9 %	0.9 %	0.5 %	0.6 %	1.1 %	0.7 %	1.0 %

	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	0.5418 ppm	100.3050 %	102.0491 %	90.8375 %	96.1223 %	100.2213 %	97.6629 %
Concentration per Run 1	0.5445 ppm	100.0463 %	102.4978 %	90.3548 %	96.3860 %	100.6022 %	97.8340 %
Concentration per Run 2	0.5438 ppm	99.9346 %	102.3603 %	90.9748 %	95.7219 %	100.1124 %	97.3115 %
Concentration per Run 3	0.5370 ppm	100.9342 %	101.2892 %	91.1830 %	96.2591 %	99.9492 %	97.8432 %
Concentration RSD	0.8 %	0.5 %	0.6 %	0.5 %	0.4 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473015-02D2 WG2010388
Analysis started at: 12/19/2024 2:08:06 PM
Rack 2
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	0.0010 ppm	28.9705 ppm	0.0660 ppm	0.0175 ppm	0.1402 ppm	0.0022 ppm	513.2623 ppm
Concentration per Run 1	0.0010 ppm	29.0627 ppm	0.0650 ppm	0.0179 ppm	0.1405 ppm	0.0022 ppm	514.7756 ppm
Concentration per Run 2	0.0010 ppm	29.1059 ppm	0.0660 ppm	0.0164 ppm	0.1404 ppm	0.0022 ppm	515.6677 ppm
Concentration per Run 3	0.0010 ppm	28.7430 ppm	0.0671 ppm	0.0182 ppm	0.1397 ppm	0.0021 ppm	509.3436 ppm
Concentration RSD	2.4 %	0.7 %	1.6 %	5.5 %	0.3 %	1.7 %	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	-0.0013 ppm	0.0626 ppm	0.0566 ppm	0.1728 ppm	131.6182 ppm	2.9303 ppm	0.0647 ppm
Concentration per Run 1	-0.0013 ppm	0.0636 ppm	0.0569 ppm	0.1742 ppm	131.7140 ppm	2.9504 ppm	0.0657 ppm
Concentration per Run 2	-0.0013 ppm	0.0621 ppm	0.0567 ppm	0.1717 ppm	132.0518 ppm	2.9382 ppm	0.0619 ppm
Concentration per Run 3	-0.0013 ppm	0.0622 ppm	0.0562 ppm	0.1726 ppm	131.0888 ppm	2.9022 ppm	0.0666 ppm
Concentration RSD	0.7 %	1.3 %	0.6 %	0.7 %	0.4 %	0.9 %	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	70.2568 ppm	3.6512 ppm	0.0161 ppm	0.5676 ppm	0.1319 ppm	0.0853 ppm	0.0075 ppm
Concentration per Run 1	70.7772 ppm	3.6635 ppm	0.0157 ppm	0.5672 ppm	0.1322 ppm	0.0842 ppm	0.0093 ppm
Concentration per Run 2	70.1119 ppm	3.6557 ppm	0.0164 ppm	0.5694 ppm	0.1318 ppm	0.0856 ppm	0.0054 ppm
Concentration per Run 3	69.8812 ppm	3.6345 ppm	0.0161 ppm	0.5663 ppm	0.1318 ppm	0.0861 ppm	0.0077 ppm
Concentration RSD	0.7 %	0.4 %	2.2 %	0.3 %	0.2 %	1.1 %	25.7 %

	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	-0.0009 ppm	4.1096 ppm	0.0026 ppm	0.7949 ppm	0.3973 ppm	-0.0033 ppm	0.0902 ppm
Concentration per Run 1	-0.0021 ppm	4.1490 ppm	0.0023 ppm	0.7966 ppm	0.3993 ppm	-0.0029 ppm	0.0908 ppm
Concentration per Run 2	-0.0016 ppm	4.0808 ppm	0.0028 ppm	0.7958 ppm	0.3951 ppm	-0.0039 ppm	0.0897 ppm
Concentration per Run 3	0.0009 ppm	4.0988 ppm	0.0026 ppm	0.7923 ppm	0.3974 ppm	-0.0032 ppm	0.0900 ppm
Concentration RSD	175.8 %	0.9 %	9.5 %	0.3 %	0.5 %	15.2 %	0.6 %

	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	0.4002 ppm	92.0719 %	98.9280 %	74.9552 %	106.3634 %	118.3814 %	108.1058 %
Concentration per Run 1	0.4041 ppm	91.4489 %	98.9395 %	74.8510 %	106.2526 %	118.4891 %	107.9045 %
Concentration per Run 2	0.3998 ppm	92.4155 %	98.7146 %	74.9503 %	106.3558 %	118.0064 %	108.1917 %
Concentration per Run 3	0.3966 ppm	92.3512 %	99.1300 %	75.0643 %	106.4817 %	118.6487 %	108.2212 %
Concentration RSD	0.9 %	0.6 %	0.2 %	0.1 %	0.1 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473015-03D2 WG2010388
Analysis started at: 12/19/2024 2:12:33 PM
Rack 2
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	0.0024 ppm	64.5431 ppm	0.0943 ppm	0.1369 ppm	1.8393 ppm	0.0057 ppm	1,008.7674 [SIC 1000]
Concentration per Run 1	0.0030 ppm	65.0644 ppm	0.0932 ppm	0.1390 ppm	1.8578 ppm	0.0058 ppm	1,008.5476 ppm
Concentration per Run 2	0.0020 ppm	64.2862 ppm	0.0935 ppm	0.1344 ppm	1.8293 ppm	0.0057 ppm	1,012.2887 ppm
Concentration per Run 3	0.0021 ppm	64.2788 ppm	0.0963 ppm	0.1371 ppm	1.8307 ppm	0.0057 ppm	1,005.4658 ppm
Concentration RSD	23.3 %	0.7 %	1.8 %	1.7 %	0.9 %	0.9 %	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	0.0021 ppm	0.0526 ppm	0.2572 ppm	0.5982 ppm	217.6279 ppm	14.8422 ppm	0.1021 ppm
Concentration per Run 1	0.0025 ppm	0.0529 ppm	0.2609 ppm	0.6027 ppm	218.4734 ppm	15.0492 ppm	0.1108 ppm
Concentration per Run 2	0.0017 ppm	0.0527 ppm	0.2571 ppm	0.6007 ppm	217.5012 ppm	14.7275 ppm	0.0966 ppm
Concentration per Run 3	0.0022 ppm	0.0522 ppm	0.2535 ppm	0.5911 ppm	216.9092 ppm	14.7499 ppm	0.0988 ppm
Concentration RSD	17.2 %	0.7 %	1.4 %	1.0 %	0.4 %	1.2 %	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	130.1804 ppm	7.2893 ppm	0.0295 ppm	8.0515 ppm	0.2230 ppm	0.5651 ppm	0.0204 ppm
Concentration per Run 1	131.5268 ppm	7.2998 ppm	0.0297 ppm	8.1657 ppm	0.2253 ppm	0.5693 ppm	0.0208 ppm
Concentration per Run 2	130.0499 ppm	7.2955 ppm	0.0299 ppm	7.9789 ppm	0.2217 ppm	0.5648 ppm	0.0197 ppm
Concentration per Run 3	128.9644 ppm	7.2727 ppm	0.0290 ppm	8.0097 ppm	0.2219 ppm	0.5611 ppm	0.0208 ppm
Concentration RSD	1.0 %	0.2 %	1.5 %	1.2 %	0.9 %	0.7 %	3.2 %

	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	9.1515 ppm	0.0343 ppm	1.7127 ppm	2.8312 ppm	-0.0061 ppm	0.1417 ppm
Concentration per Run 1	-0.0001 ppm	9.3214 ppm	0.0333 ppm	1.7299 ppm	2.8525 ppm	-0.0059 ppm	0.1421 ppm
Concentration per Run 2	0.0007 ppm	9.1370 ppm	0.0349 ppm	1.7019 ppm	2.8369 ppm	-0.0056 ppm	0.1425 ppm
Concentration per Run 3	-0.0005 ppm	8.9960 ppm	0.0349 ppm	1.7064 ppm	2.8044 ppm	-0.0067 ppm	0.1405 ppm
Concentration RSD	4,925.2 %	1.8 %	2.7 %	0.9 %	0.9 %	9.4 %	0.7 %

	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	1.2298 ppm	87.6708 %	96.7418 %	62.6617 %	100.2218 %	116.1885 %	100.6774 %
Concentration per Run 1	1.2487 ppm	87.0682 %	96.8618 %	62.4933 %	100.0846 %	116.4611 %	100.6778 %
Concentration per Run 2	1.2233 ppm	87.6145 %	96.5209 %	62.9903 %	100.0601 %	116.0052 %	101.0176 %
Concentration per Run 3	1.2174 ppm	88.3299 %	96.8427 %	62.5016 %	100.5208 %	116.0991 %	100.3367 %
Concentration RSD	1.4 %	0.7 %	0.2 %	0.5 %	0.3 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

12/19/2024 2:24:46 PM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473015-04D2 WG2010388
Analysis started at: 12/19/2024 2:17:04 PM
Rack 2
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	0.0034 ppm	46.8765 ppm	0.1155 ppm	0.1353 ppm	1.0894 ppm	0.0089 ppm	216.8088 ppm
Concentration per Run 1	0.0040 ppm	47.8253 ppm	0.1168 ppm	0.1352 ppm	1.1061 ppm	0.0091 ppm	221.4775 ppm
Concentration per Run 2	0.0034 ppm	48.1385 ppm	0.1154 ppm	0.1370 ppm	1.1133 ppm	0.0091 ppm	221.7480 ppm
Concentration per Run 3	0.0028 ppm	44.6656 ppm	0.1142 ppm	0.1336 ppm	1.0488 ppm	0.0085 ppm	207.2008 ppm
Concentration RSD	17.7 %	4.1 %	1.1 %	1.3 %	3.2 %	3.8 %	3.8 %

	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	0.0033 ppm	0.0753 ppm	0.1798 ppm	0.3130 ppm	291.2273 ppm	5.3437 ppm	0.0981 ppm
Concentration per Run 1	0.0036 ppm	0.0753 ppm	0.1806 ppm	0.3175 ppm	297.4087 ppm	5.4037 ppm	0.0992 ppm
Concentration per Run 2	0.0033 ppm	0.0760 ppm	0.1803 ppm	0.3120 ppm	297.9328 ppm	5.5144 ppm	0.1004 ppm
Concentration per Run 3	0.0030 ppm	0.0745 ppm	0.1785 ppm	0.3094 ppm	278.3403 ppm	5.1131 ppm	0.0949 ppm
Concentration RSD	8.7 %	1.0 %	0.6 %	1.3 %	3.8 %	3.9 %	2.9 %

	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	29.0154 ppm	4.6305 ppm	0.0406 ppm	4.6825 ppm	0.2555 ppm	0.3788 ppm	0.0114 ppm
Concentration per Run 1	29.1080 ppm	4.7344 ppm	0.0405 ppm	4.7457 ppm	0.2575 ppm	0.3813 ppm	0.0114 ppm
Concentration per Run 2	29.1082 ppm	4.7398 ppm	0.0398 ppm	4.8193 ppm	0.2539 ppm	0.3779 ppm	0.0120 ppm
Concentration per Run 3	28.8301 ppm	4.4171 ppm	0.0415 ppm	4.4825 ppm	0.2551 ppm	0.3772 ppm	0.0106 ppm
Concentration RSD	0.6 %	4.0 %	2.1 %	3.8 %	0.7 %	0.6 %	6.6 %

	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	0.0006 ppm	4.3596 ppm	0.0231 ppm	0.4980 ppm	1.3064 ppm	0.0011 ppm	0.1257 ppm
Concentration per Run 1	0.0005 ppm	4.4313 ppm	0.0227 ppm	0.5058 ppm	1.3131 ppm	0.0005 ppm	0.1259 ppm
Concentration per Run 2	-0.0002 ppm	4.3472 ppm	0.0232 ppm	0.5102 ppm	1.3087 ppm	0.0013 ppm	0.1256 ppm
Concentration per Run 3	0.0016 ppm	4.3004 ppm	0.0234 ppm	0.4779 ppm	1.2972 ppm	0.0016 ppm	0.1257 ppm
Concentration RSD	146.6 %	1.5 %	1.6 %	3.5 %	0.6 %	52.5 %	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	0.8243 ppm	96.6887 %	104.8824 %	75.8136 %	111.2608 %	124.8662 %	110.5988 %
Concentration per Run 1	0.8239 ppm	96.3588 %	103.2233 %	75.3389 %	111.3441 %	122.6765 %	110.2830 %
Concentration per Run 2	0.8280 ppm	96.5604 %	102.7199 %	76.0309 %	111.2998 %	123.1842 %	110.8916 %
Concentration per Run 3	0.8210 ppm	97.1470 %	108.7039 %	76.0711 %	111.1385 %	128.7378 %	110.6219 %
Concentration RSD	0.4 %	0.4 %	3.2 %	0.5 %	0.1 %	2.7 %	0.3 %

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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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.

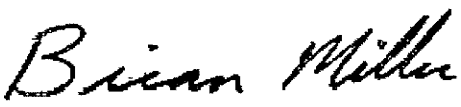
8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

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

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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 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 8

12/19/2024 7:00:48 AM

LabBook: WG2010540_12182024T8.imexp

Summary

Index	Label	Rack	Vial	Started at
1	Blank DMC Trace8	0	1	12/18/2024 5:53:18 AM
2	ICAL	0	2	12/18/2024 5:57:36 AM
3	ICV	0	3	12/18/2024 6:02:00 AM
4	ICB	0	4	12/18/2024 6:06:24 AM
5	ICV	0	10	12/18/2024 6:11:07 AM
6	ICB	0	4	12/18/2024 6:15:35 AM
7	LLOQ	0	5	12/18/2024 6:20:00 AM
8	ICSA	0	6	12/18/2024 6:24:26 AM
9	SIC Multi	0	7	12/18/2024 6:29:53 AM
10	LDR Check	0	8	12/18/2024 6:34:53 AM
11	LLOQ 0.005 As & Zn pass	1	1	12/18/2024 7:10:30 AM
12	zLLOQ 0.01	1	2	12/18/2024 7:15:10 AM
13	LLOQ 0.05 Fe pass	1	3	12/18/2024 7:19:33 AM
14	LDR 20PPM As pass	1	4	12/18/2024 7:23:58 AM
15	xLDR 500PPM Fe	1	5	12/18/2024 7:28:22 AM
16	LDR 1000PPM Ca pass	1	6	12/18/2024 7:33:48 AM
17	CCV	0	3	12/18/2024 7:51:47 AM
18	CCB	0	4	12/18/2024 7:56:18 AM
19	WG2010492-1 WG2010492	1	7	12/18/2024 8:14:29 AM
20	WG2010492-2D2 WG2010492	1	8	12/18/2024 8:19:01 AM
21	L2473791-29D2 WG2010492	1	14	12/18/2024 8:23:27 AM
22	L2473791-31D2 WG2010492	1	15	12/18/2024 8:27:50 AM
23	L2473791-32D2 WG2010492	1	16	12/18/2024 8:32:13 AM
24	L2473791-28D2 WG2010492	1	9	12/18/2024 8:36:37 AM
25	WG2010492-3D2 WG2010492	1	10	12/18/2024 8:41:02 AM
26	WG2010492-4D2 WG2010492	1	11	12/18/2024 8:45:28 AM
27	WG2010492-5D2 WG2010492	1	12	12/18/2024 8:49:55 AM
28	WG2010492-6D10 WG2010492	1	13	12/18/2024 8:54:22 AM
29	CCV	0	3	12/18/2024 8:58:45 AM
30	CCB	0	4	12/18/2024 9:03:09 AM
31	L2473791-33D2 WG2010492	1	17	12/18/2024 9:09:39 AM
32	L2473791-34D2 WG2010492	1	18	12/18/2024 9:14:09 AM
33	L2473791-37D2 WG2010492	1	19	12/18/2024 9:18:33 AM
34	L2473791-38D2 WG2010492	1	20	12/18/2024 9:22:58 AM
35	L2473791-39D2 WG2010492	1	21	12/18/2024 9:27:23 AM
36	L2473791-40D2 WG2010492	1	22	12/18/2024 9:31:48 AM
37	L2473791-42D2 WG2010492	1	23	12/18/2024 9:36:14 AM
38	L2473791-43D2 WG2010492	1	24	12/18/2024 9:40:40 AM
39	xLDR 300PPM Fe	1	33	12/18/2024 9:46:07 AM
40	LDR 400PPM Fe pass	1	34	12/18/2024 9:51:36 AM
41	CCV	0	3	12/18/2024 9:57:05 AM
42	CCB	0	4	12/18/2024 10:01:34 AM
43	L2473791-45D2 WG2010492	1	25	12/18/2024 10:05:59 AM
44	L2473791-46D2 WG2010492	1	26	12/18/2024 10:10:22 AM
45	L2473791-48D2 WG2010492	1	27	12/18/2024 10:14:45 AM
46	L2473791-49D2 WG2010492	1	28	12/18/2024 10:19:09 AM
47	L2473791-51D2 WG2010492	1	29	12/18/2024 10:23:33 AM
48	L2473791-52D2 WG2010492	1	30	12/18/2024 10:27:58 AM
49	L2473791-53D2 WG2010492	1	31	12/18/2024 10:32:23 AM
50	L2473791-54D2 WG2010492	1	32	12/18/2024 10:36:48 AM
51	CCV	0	3	12/18/2024 10:41:28 AM
52	CCB	0	4	12/18/2024 10:45:53 AM
53	WG2010362-1 WG2010362	1	35	12/18/2024 10:52:36 AM
54	WG2010362-2 WG2010362	1	36	12/18/2024 10:57:09 AM
55	zL2472692-01d2 WG2010362	1	37	12/18/2024 11:01:36 AM
56	zWG2010362-3d2 WG2010362	1	38	12/18/2024 11:06:00 AM
57	zWG2010362-4d2 WG2010362	1	39	12/18/2024 11:10:24 AM
58	zWG2010362-5d2 WG2010362	1	40	12/18/2024 11:14:48 AM
59	zWG2010362-6d10 WG2010362	1	41	12/18/2024 11:19:12 AM
60	CCV	0	3	12/18/2024 11:23:37 AM
61	CCB	0	4	12/18/2024 11:28:03 AM
62	WG2010580-1 WG2010580	1	42	12/18/2024 11:33:38 AM
63	WG2010580-2 WG2010580	1	43	12/18/2024 11:38:17 AM
64	L2472694-02 WG2010580	1	44	12/18/2024 11:42:42 AM
65	WG2010580-3 WG2010580	1	45	12/18/2024 11:47:08 AM
66	WG2010580-4 WG2010580	1	46	12/18/2024 11:51:34 AM
67	L2472694-03 WG2010580	1	49	12/18/2024 11:56:00 AM
68	L2472729-01 WG2010580	1	50	12/18/2024 12:00:25 PM

Sequence Trace 8

12/19/2024 7:00:48 AM

Index	Label	Rack	Vial	Started at
69	L2472862-01 WG2010580	1	51	12/18/2024 12:04:50 PM
70	L2472862-02 WG2010580	1	52	12/18/2024 12:09:15 PM
71	CCV	0	3	12/18/2024 12:13:40 PM
72	CCB	0	4	12/18/2024 12:18:06 PM
73	WG2010314-1 WG2010314	1	59	12/18/2024 12:23:29 PM
74	WG2010314-2 WG2010314	1	60	12/18/2024 12:27:58 PM
75	WG2010323-2 WG2010323	1	53	12/18/2024 12:32:26 PM
76	L2472692-01 WG2010362	1	54	12/18/2024 12:36:52 PM
77	WG2010362-3 WG2010362	1	55	12/18/2024 12:41:17 PM
78	WG2010362-4 WG2010362	1	56	12/18/2024 12:45:43 PM
79	WG2010362-5 WG2010362	1	57	12/18/2024 12:50:08 PM
80	WG2010362-6d5 WG2010362	1	58	12/18/2024 12:54:34 PM
81	CCV	0	3	12/18/2024 12:59:01 PM
82	CCB	0	4	12/18/2024 1:03:27 PM
83	WG2010479-1 WG2010479	2	1	12/18/2024 1:09:06 PM
84	WG2010479-2D2 WG2010479	2	2	12/18/2024 1:13:34 PM
85	WG2010479-3D2 WG2010479	2	3	12/18/2024 1:18:00 PM
86	L2473518-01D2 WG2010479	2	12	12/18/2024 1:22:25 PM
87	L2473518-02D2 WG2010479	2	13	12/18/2024 1:28:34 PM
88	L2473518-03D2 WG2010479	2	14	12/18/2024 1:33:19 PM
89	L2473518-04D2 WG2010479	2	15	12/18/2024 1:37:45 PM
90	L2473518-05D2 WG2010479	2	16	12/18/2024 1:43:27 PM
91	L2473518-06D2 WG2010479	2	17	12/18/2024 1:48:09 PM
92	L2473518-07D2 WG2010479	2	18	12/18/2024 1:52:35 PM
93	CCV	0	3	12/18/2024 1:57:02 PM
94	CCB	0	4	12/18/2024 2:01:28 PM
95	L2473781-01D2 WG2010479	2	23	12/18/2024 2:10:03 PM
96	L2472606-01D2 WG2010479	2	5	12/18/2024 2:14:37 PM
97	L2472777-01D2 WG2010479	2	6	12/18/2024 2:19:04 PM
98	L2472777-03D2 WG2010479	2	7	12/18/2024 2:23:30 PM
99	L2472777-05D2 WG2010479	2	8	12/18/2024 2:27:56 PM
100	L2472777-07D2 WG2010479	2	9	12/18/2024 2:32:22 PM
101	L2472777-09D2 WG2010479	2	10	12/18/2024 2:36:48 PM
102	L2472942-01D2 WG2010479	2	11	12/18/2024 2:41:15 PM
103	L2473702-01D2 WG2010479	2	19	12/18/2024 2:45:42 PM
104	CCV	0	3	12/18/2024 2:50:08 PM
105	CCB	0	4	12/18/2024 2:54:34 PM
106	WG2010756-1 WG2010756	2	24	12/18/2024 3:07:24 PM
107	WG2010756-2 WG2010756	2	25	12/18/2024 3:12:15 PM
108	WG2010756-3 WG2010756	2	26	12/18/2024 3:16:42 PM
109	L2474115-01 WG2010756	2	27	12/18/2024 3:21:09 PM
110	L2474115-02 WG2010756	2	28	12/18/2024 3:25:35 PM
111	L2474115-03 WG2010756	2	29	12/18/2024 3:30:01 PM
112	L2474115-04 WG2010756	2	30	12/18/2024 3:34:27 PM
113	L2474115-05 WG2010756	2	31	12/18/2024 3:38:53 PM
114	CCV	0	3	12/18/2024 3:43:19 PM
115	CCB	0	4	12/18/2024 3:47:45 PM
116	L2472587-03D2 WG2010479	2	4	12/18/2024 4:18:08 PM
117	L2473702-02D2 WG2010479	2	20	12/18/2024 4:22:54 PM
118	L2473703-01D2 WG2010479	2	21	12/18/2024 4:27:20 PM
119	L2473703-02D2 WG2010479	2	22	12/18/2024 4:31:47 PM
120	CCV	0	3	12/18/2024 4:37:44 PM
121	CCB	0	4	12/18/2024 4:42:14 PM
122	CCV	0	3	12/18/2024 5:53:11 PM
123	CCB	0	4	12/18/2024 5:57:59 PM
124	WG2010523-1 WG2010523	2	32	12/18/2024 6:11:50 PM
125	WG2010523-2D2 WG2010523	2	33	12/18/2024 6:16:23 PM
126	L2472530-14D2 WG2010523	2	39	12/18/2024 6:20:50 PM
127	L2472530-15D2 WG2010523	2	40	12/18/2024 6:25:17 PM
128	L2472566-01D2 WG2010523	2	41	12/18/2024 6:29:44 PM
129	L2472648-02D2 WG2010523	2	34	12/18/2024 6:34:11 PM
130	WG2010523-3D2 WG2010523	2	35	12/18/2024 6:38:38 PM
131	WG2010523-4D2 WG2010523	2	36	12/18/2024 6:43:06 PM
132	WG2010523-5D2 WG2010523	2	37	12/18/2024 6:47:35 PM
133	WG2010523-6D10 WG2010523	2	38	12/18/2024 6:52:01 PM
134	CCV	0	3	12/18/2024 6:56:28 PM
135	CCB	0	4	12/18/2024 7:00:55 PM
136	L2472581-01D2 WG2010523	2	42	12/18/2024 7:09:20 PM
137	L2472648-04D2 WG2010523	2	43	12/18/2024 7:14:08 PM
138	L2472648-06D2 WG2010523	2	44	12/18/2024 7:18:35 PM
139	L2472649-02D2 WG2010523	2	45	12/18/2024 7:23:02 PM
140	L2472649-04D2 WG2010523	2	46	12/18/2024 7:27:29 PM
141	L2472649-06D2 WG2010523	2	47	12/18/2024 7:31:57 PM
142	L2472649-08D2 WG2010523	2	48	12/18/2024 7:36:25 PM

Sequence Trace 8

12/19/2024 7:00:48 AM

Index	Label	Rack	Vial	Started at
143	L2472649-10D2 WG2010523	2	49	12/18/2024 7:40:53 PM
144	L2472649-12D2 WG2010523	2	50	12/18/2024 7:45:20 PM
145	eL2472674-01D2 WG2010523	2	51	12/18/2024 7:49:48 PM
146	CCV	0	3	12/18/2024 7:54:15 PM
147	CCB	0	4	12/18/2024 7:58:41 PM
148	L2472674-02D2 WG2010523	2	52	12/18/2024 8:06:49 PM
149	L2472862-01D2 WG2010523	2	53	12/18/2024 8:11:23 PM
150	L2472530-13d2 WG2010517	3	14	12/18/2024 8:15:50 PM
151	L2472693-06d2 WG2010517	3	15	12/18/2024 8:20:18 PM
152	L2472674-01D4 WG2010523	3	16	12/18/2024 8:24:46 PM
153	CCV	0	3	12/18/2024 8:29:15 PM
154	CCB	0	4	12/18/2024 8:33:41 PM
155	L2472693-05d4 WG2010517	2	54	12/18/2024 8:40:16 PM
156	WG2010517-3d4 WG2010517	2	55	12/18/2024 8:45:02 PM
157	WG2010517-4d4 WG2010517	2	56	12/18/2024 8:49:29 PM
158	WG2010517-5d4 WG2010517	2	57	12/18/2024 8:53:57 PM
159	WG2010517-6d20 WG2010517	2	58	12/18/2024 8:58:24 PM
160	L2472529-02d2 WG2010517	2	59	12/18/2024 9:02:52 PM
161	L2472529-03d2 WG2010517	2	60	12/18/2024 9:07:20 PM
162	L2472529-04d2 WG2010517	3	1	12/18/2024 9:11:48 PM
163	L2472530-01d2 WG2010517	3	2	12/18/2024 9:16:17 PM
164	L2472530-02d2 WG2010517	3	3	12/18/2024 9:20:45 PM
165	CCV	0	3	12/18/2024 9:25:13 PM
166	CCB	0	4	12/18/2024 9:29:40 PM
167	L2472530-03d2 WG2010517	3	4	12/18/2024 9:34:43 PM
168	L2472530-04d2 WG2010517	3	5	12/18/2024 9:39:12 PM
169	L2472530-05d2 WG2010517	3	6	12/18/2024 9:43:40 PM
170	L2472530-06d2 WG2010517	3	7	12/18/2024 9:48:08 PM
171	L2472530-07d2 WG2010517	3	8	12/18/2024 9:52:37 PM
172	L2472530-08d2 WG2010517	3	9	12/18/2024 9:57:05 PM
173	eL2472530-09d2 WG2010517	3	10	12/18/2024 10:01:34 PM
174	L2472530-10d2 WG2010517	3	11	12/18/2024 10:06:02 PM
175	L2472530-11d2 WG2010517	3	12	12/18/2024 10:10:30 PM
176	L2472530-12d2 WG2010517	3	13	12/18/2024 10:15:00 PM
177	CCV	0	3	12/18/2024 10:19:29 PM
178	CCB	0	4	12/18/2024 10:23:56 PM
179	L2472530-09d4 WG2010517	3	17	12/18/2024 10:28:37 PM
180	CCV	0	3	12/18/2024 10:33:06 PM
181	CCB	0	4	12/18/2024 10:37:33 PM
182	L2472969-01 WG2010362	3	23	12/18/2024 10:43:58 PM
183	L2473045-07 WG2010362	3	24	12/18/2024 10:48:45 PM
184	L2473162-01 WG2010362	3	25	12/18/2024 10:53:14 PM
185	L2473162-02 WG2010362	3	26	12/18/2024 10:57:43 PM
186	L2473162-03 WG2010362	3	27	12/18/2024 11:02:12 PM
187	L2473162-06 WG2010362	3	18	12/18/2024 11:06:41 PM
188	WG2010362-7 WG2010362	3	19	12/18/2024 11:11:10 PM
189	WG2010362-8 WG2010362	3	20	12/18/2024 11:15:39 PM
190	WG2010362-9 WG2010362	3	21	12/18/2024 11:20:08 PM
191	WG2010362-10d5 WG2010362	3	22	12/18/2024 11:24:37 PM
192	CCV	0	3	12/18/2024 11:29:06 PM
193	CCB	0	4	12/18/2024 11:33:33 PM
194	L2473162-04 WG2010362	3	28	12/18/2024 11:38:01 PM
195	L2473162-05 WG2010362	3	29	12/18/2024 11:42:30 PM
196	L2473162-07 WG2010362	3	30	12/18/2024 11:47:00 PM
197	L2473162-08 WG2010362	3	31	12/18/2024 11:51:29 PM
198	L2473162-09 WG2010362	3	32	12/18/2024 11:55:58 PM
199	L2473162-10 WG2010362	3	33	12/19/2024 12:00:28 AM
200	CCV	0	3	12/19/2024 12:04:58 AM
201	CCB	0	4	12/19/2024 12:09:25 AM
202	CCV	0	3	12/19/2024 12:13:53 AM
203	CCB	0	4	12/19/2024 12:18:21 AM
204	LLOQ	0	5	12/19/2024 12:22:49 AM

Sequence Trace 8

12/19/2024 2:25:10 PM

LabBook: WG2011105_12192024T8.imexp

Summary

Index	Label	Rack	Vial	Started at
1	Blank DMC Trace8	0	1	12/19/2024 5:49:04 AM
2	ICAL	0	2	12/19/2024 5:53:43 AM
3	ICV	0	3	12/19/2024 5:58:07 AM
4	ICB	0	4	12/19/2024 6:02:31 AM
5	ICV	0	10	12/19/2024 6:10:43 AM
6	ICB	0	4	12/19/2024 6:15:17 AM
7	LLOQ	0	5	12/19/2024 6:19:42 AM
8	ICSA	0	6	12/19/2024 6:24:08 AM
9	SIC Multi	0	7	12/19/2024 6:29:34 AM
10	LDR Check	0	8	12/19/2024 6:34:34 AM
11	xLLOQ 0.005	1	1	12/19/2024 6:56:49 AM
12	LLOQ 0.01 AS PASS	1	2	12/19/2024 7:01:20 AM
13	LLOQ 0.05 FE PASS	1	3	12/19/2024 7:05:44 AM
14	LDR 20PPM AS	1	4	12/19/2024 7:10:09 AM
15	XLDR 500PPM NA	1	5	12/19/2024 7:14:42 AM
16	XLDR 400PPM FE	1	6	12/19/2024 7:19:08 AM
17	LDR 1000PPM CA	1	7	12/19/2024 7:24:34 AM
18	LLOQ 0.005 ZN PASS	1	1	12/19/2024 7:31:34 AM
19	LLOQ 0.005	1	8	12/19/2024 7:36:39 AM
20	LDR 500PPM NA	1	5	12/19/2024 7:41:04 AM
21	CCV	0	3	12/19/2024 7:51:41 AM
22	CCB	0	4	12/19/2024 7:56:12 AM
23	LDR 250PPM NA	1	9	12/19/2024 8:02:06 AM
24	LDR 300PPM FE	1	10	12/19/2024 8:07:36 AM
25	CCV	0	3	12/19/2024 8:13:07 AM
26	CCB	0	4	12/19/2024 8:17:34 AM
27	WG2010791-1 WG2010791	1	11	12/19/2024 8:27:40 AM
28	WG2010791-2D2 WG2010791	1	12	12/19/2024 8:32:13 AM
29	WG2010791-3D2 WG2010791	1	13	12/19/2024 8:36:40 AM
30	L2472921-01D2 WG2010791	1	14	12/19/2024 8:41:03 AM
31	L2472921-02D2 WG2010791	1	15	12/19/2024 8:45:26 AM
32	L2472966-01D2 WG2010791	1	16	12/19/2024 8:49:50 AM
33	L2472966-02D2 WG2010791	1	17	12/19/2024 8:54:14 AM
34	L2473700-01D2 WG2010791	1	18	12/19/2024 8:58:39 AM
35	L2473700-02D2 WG2010791	1	19	12/19/2024 9:03:03 AM
36	L2474220-01D2 WG2010791	1	20	12/19/2024 9:07:28 AM
37	CCV	0	3	12/19/2024 9:11:53 AM
38	CCB	0	4	12/19/2024 9:16:18 AM
39	L2474220-02D2 WG2010791	1	21	12/19/2024 9:24:56 AM
40	L2474220-03D2 WG2010791	1	22	12/19/2024 9:29:27 AM
41	L2474220-05D2 WG2010791	1	23	12/19/2024 9:33:53 AM
42	L2474220-06D2 WG2010791	1	24	12/19/2024 9:38:19 AM
43	L2474220-07D2 WG2010791	1	25	12/19/2024 9:42:46 AM
44	L2474220-08D2 WG2010791	1	26	12/19/2024 9:47:09 AM
45	L2474220-09D2 WG2010791	1	27	12/19/2024 9:51:32 AM
46	L2474220-11D2 WG2010791	1	28	12/19/2024 9:55:56 AM
47	L2474220-12D2 WG2010791	1	29	12/19/2024 10:00:20 AM
48	CCV	0	3	12/19/2024 10:04:44 AM
49	XCCB CAP WAS ON	0	4	12/19/2024 10:09:09 AM
50	CCB	0	4	12/19/2024 10:16:37 AM
51	WG2010931-1 WG2010931	1	30	12/19/2024 10:28:52 AM
52	WG2010931-2D2 WG2010931	1	31	12/19/2024 10:33:34 AM
53	L2473276-01D10 WG2010931	1	37	12/19/2024 10:37:59 AM
54	L2474378-02D2 WG2010931	1	38	12/19/2024 10:42:23 AM
55	L2474378-01D2 WG2010931	1	32	12/19/2024 10:46:48 AM
56	WG2010931-3D2 WG2010931	1	33	12/19/2024 10:51:13 AM
57	WG2010931-4D2 WG2010931	1	34	12/19/2024 10:55:38 AM
58	WG2010931-5D2 WG2010931	1	35	12/19/2024 11:00:04 AM
59	WG2010931-6D10 WG2010931	1	36	12/19/2024 11:04:31 AM
60	CCV	0	3	12/19/2024 11:08:57 AM
61	CCB	0	4	12/19/2024 11:13:23 AM
62	WG2010403-1 WG2010403	1	39	12/19/2024 11:25:49 AM
63	WG2010403-2 WG2010403	1	40	12/19/2024 11:30:31 AM
64	L2472968-01 WG2010403	1	51	12/19/2024 11:34:56 AM
65	L2473162-01 WG2010403	1	52	12/19/2024 11:39:21 AM
66	L2473162-02 WG2010403	1	53	12/19/2024 11:43:46 AM
67	L2473162-06 WG2010403	1	41	12/19/2024 11:48:11 AM
68	WG2010403-3 WG2010403	1	42	12/19/2024 11:52:36 AM

Sequence Trace 8

12/19/2024 2:25:10 PM

Index	Label	Rack	Vial	Started at
69	WG2010403-4 WG2010403	1	43	12/19/2024 11:57:02 AM
70	WG2010403-5 WG2010403	1	44	12/19/2024 12:01:27 PM
71	WG2010403-6D5 WG2010403	1	45	12/19/2024 12:05:53 PM
72	CCV	0	3	12/19/2024 12:10:20 PM
73	CCB	0	4	12/19/2024 12:14:45 PM
74	L2473162-03 WG2010403	1	54	12/19/2024 12:33:42 PM
75	L2473162-04 WG2010403	1	55	12/19/2024 12:38:14 PM
76	L2473162-05 WG2010403	1	56	12/19/2024 12:42:40 PM
77	L2473162-08 WG2010403	1	57	12/19/2024 12:47:06 PM
78	L2473162-09 WG2010403	1	58	12/19/2024 12:51:32 PM
79	L2473162-07 WG2010403	1	46	12/19/2024 12:55:59 PM
80	WG2010403-7 WG2010403	1	47	12/19/2024 1:00:25 PM
81	WG2010403-8 WG2010403	1	48	12/19/2024 1:04:52 PM
82	WG2010403-9 WG2010403	1	49	12/19/2024 1:09:19 PM
83	WG2010403-10D5 WG2010403	1	50	12/19/2024 1:13:45 PM
84	CCV	0	3	12/19/2024 1:18:10 PM
85	CCB	0	4	12/19/2024 1:22:36 PM
86	L2473162-10 WG2010403	1	59	12/19/2024 1:27:02 PM
87	L2473015-15D2 WG2010388	2	20	12/19/2024 1:31:29 PM
88	L2473015-16D2 WG2010388	2	21	12/19/2024 1:35:55 PM
89	L2473015-17D2 WG2010388	2	22	12/19/2024 1:40:22 PM
90	L2473015-18D2 WG2010388	2	23	12/19/2024 1:44:49 PM
91	CCV	0	3	12/19/2024 1:49:16 PM
92	CCB	0	4	12/19/2024 1:53:42 PM
93	WG2010388-1 WG2010388	1	60	12/19/2024 1:59:09 PM
94	WG2010388-2D2 WG2010388	2	1	12/19/2024 2:03:40 PM
95	L2473015-02D2 WG2010388	2	7	12/19/2024 2:08:06 PM
96	L2473015-03D2 WG2010388	2	8	12/19/2024 2:12:33 PM
97	L2473015-04D2 WG2010388	2	9	12/19/2024 2:17:04 PM
98	L2473015-01D2 WG2010388	2	2	
99	WG2010388-3D2 WG2010388	2	3	
100	WG2010388-4D2 WG2010388	2	4	
101	WG2010388-5D2 WG2010388	2	5	
102	WG2010388-6D10 WG2010388	2	6	
103	CCV	0	3	
104	CCB	0	4	
105	L2473015-05D2 WG2010388	2	10	
106	L2473015-06D2 WG2010388	2	11	
107	L2473015-07D2 WG2010388	2	12	
108	L2473015-08D2 WG2010388	2	13	
109	L2473015-09D2 WG2010388	2	14	
110	L2473015-10D2 WG2010388	2	15	
111	L2473015-11D2 WG2010388	2	16	
112	L2473015-12D2 WG2010388	2	17	
113	L2473015-13D2 WG2010388	2	18	
114	L2473015-14D2 WG2010388	2	19	
115	CCV	0	3	
116	CCB	0	4	
117		2	24	
118		2	25	
119		2	26	
120		2	27	
121		2	28	
122		2	29	
123		2	30	
124		2	31	
125		2	32	
126		2	33	
127		2	34	
128		2	35	
129		2	36	
130		2	37	
131		2	38	
132		2	39	
133		2	40	
134		2	41	
135		2	42	
136		2	43	
137		2	44	
138		2	45	
139		2	46	
140		2	47	
141		2	48	
142		2	49	

Sequence Trace 8

12/19/2024 2:25:10 PM

Index	Label	Rack	Vial	Started at
143		2	50	
144		2	51	
145		2	52	
146		2	53	
147		2	54	
148		2	55	
149		2	56	
150		2	57	
151		2	58	
152		2	59	
153		2	60	
154		3	1	
155		3	2	
156		3	3	
157		3	4	
158		3	5	
159		3	6	
160		3	7	
161		3	8	
162		3	9	
163		3	10	
164		3	11	
165		3	12	
166		3	13	
167		3	14	
168		3	15	
169		3	16	
170		3	17	
171		3	18	
172		3	19	
173		3	20	
174	CCV	0	3	
175	CCB	0	4	
176	CCV	0	3	
177	CCB	0	4	
178	LLOQ	0	5	

METALS ELN REPORT

Workgroup: WG2010362

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	tHNO3245011 21139JDH	1:1 HCl	tHCL244720 1337JDH	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
L2472692-01 SAMP	12/17/24 21:20	Christine Hamor	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	
L2472969-01 WATER	12/17/24 21:20	Christine Hamor	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	
L2473045-07 SAMP	12/17/24 21:20	Christine Hamor	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	
L2473162-01 SAMP	12/17/24 21:20	Christine Hamor	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	
L2473162-02 SAMP	12/17/24 21:20	Christine Hamor	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	
L2473162-03 SAMP	12/17/24 21:20	Christine Hamor	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	
L2473162-04 SAMP	12/17/24 21:20	Christine Hamor	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	
L2473162-05 SAMP	12/17/24 21:20	Christine Hamor	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	
L2473162-06 SAMP	12/17/24 21:20	Christine Hamor	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	
L2473162-07 SAMP	12/17/24 21:20	Christine Hamor	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	

METALS ELN REPORT

Workgroup: WG2010362

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
L2473162-08 SAMP	12/17/24 21:20	Christine Hamor	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	
L2473162-09 SAMP	12/17/24 21:20	Christine Hamor	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	
L2473162-10 SAMP	12/17/24 21:20	Christine Hamor	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	
WG2010362-1 BLANK	12/17/24 21:20	Christine Hamor	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	FM2420141420 EFM
WG2010362-2 LCS	12/17/24 21:20	Christine Hamor	50	<2	.5	12/17/24 21:20	9	94.1	12/18/24 00:20	50	
WG2010362-3 MS	12/17/24 21:20	Christine Hamor	50	<2	.5	12/17/24 21:20	9	94.1	12/18/24 00:20	50	ELN check: MGM
WG2010362-4 DUP	12/17/24 21:20	Christine Hamor	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	
WG2010362-5 PS	12/17/24 21:20	Christine Hamor	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	
WG2010362-6 SERDIL	12/17/24 21:20	Christine Hamor	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	
WG2010362-7 MS	12/17/24 21:20	Christine Hamor	50	<2	.5	12/17/24 21:20	9	94.1	12/18/24 00:20	50	
WG2010362-8 MSD	12/17/24 21:20	Christine Hamor	50	<2	.5	12/17/24 21:20	9	94.1	12/18/24 00:20	50	
WG2010362-9 PS	12/17/24 21:20	Christine Hamor	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	

Reported: 19-DEC-24 04:15 PM

METALS ELN REPORT

Workgroup: WG2010362

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
WG2010362-10 SERDIL	12/17/24 21:20	Christine Hamor	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	IPS2448251348CME

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

Reported: 19-DEC-24 04:15 PM

METALS ELN REPORT

Workgroup: WG2010403

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	tHNO3245012139JDH	1:1 HCl	tHCL2447201337JDH	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
L2472968-01 SAMP	12/17/24 21:20	Christine Hamor	12-13-24 06:14	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	X
L2473162-01 SAMP	12/17/24 21:20	Christine Hamor	NA	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	F
L2473162-02 SAMP	12/17/24 21:20	Christine Hamor	NA	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	F
L2473162-03 SAMP	12/17/24 21:20	Christine Hamor	NA	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	F
L2473162-04 SAMP	12/17/24 21:20	Christine Hamor	NA	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	F
L2473162-05 SAMP	12/17/24 21:20	Christine Hamor	NA	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	F
L2473162-06 SAMP	12/17/24 21:20	Christine Hamor	NA	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	F
L2473162-07 SAMP	12/17/24 21:20	Christine Hamor	NA	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	F
L2473162-08 SAMP	12/17/24 21:20	Christine Hamor	NA	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	F
L2473162-09 SAMP	12/17/24 21:20	Christine Hamor	NA	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	F

Reported: 19-DEC-24 04:15 PM

METALS ELN REPORT

Workgroup: WG2010403

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
L2473162-10 SAMP	12/17/24 21:20	Christine Hamor	NA	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	F
L2473538-01 SAMP	12/17/24 21:20	Christine Hamor	NA	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	H
L2473538-02 SAMP	12/17/24 21:20	Christine Hamor	NA	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	H
L2473538-03 SAMP	12/17/24 21:20	Christine Hamor	NA	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	H
L2473538-04 SAMP	12/17/24 21:20	Christine Hamor	NA	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	H
L2473538-05 SAMP	12/17/24 21:20	Christine Hamor	NA	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	H
WG2010403-1 BLANK	12/17/24 21:20	Christine Hamor	12/13/24 06:14	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	FM2420141420 EFM
WG2010403-2 LCS	12/17/24 21:20	Christine Hamor	NA	50	<2	.5	12/17/24 21:20	9	94.1	12/18/24 00:20	50	
WG2010403-3 MS	12/17/24 21:20	Christine Hamor	NA	50	<2	.5	12/17/24 21:20	9	94.1	12/18/24 00:20	50	ELN check: MGM
WG2010403-4 MSD	12/17/24 21:20	Christine Hamor	NA	50	<2	.5	12/17/24 21:20	9	94.1	12/18/24 00:20	50	
WG2010403-5 PS	12/17/24 21:20	Christine Hamor	NA	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	
WG2010403-6 SERDIL	12/17/24 21:20	Christine Hamor	NA	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	

METALS ELN REPORT

Workgroup: WG2010403

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
WG2010403-7 MS	12/17/24 21:20	Christine Hamor	NA	50	<2	.5	12/17/24 21:20	9	94.1	12/18/24 00:20	50	
WG2010403-8 DUP	12/17/24 21:20	Christine Hamor	NA	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	
WG2010403-9 PS	12/17/24 21:20	Christine Hamor	NA	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	
WG2010403-10 SERDIL	12/17/24 21:20	Christine Hamor	NA	50	<2		12/17/24 21:20	9	94.1	12/18/24 00:20	50	IPS2448251348CME

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

Reported: 19-DEC-24 04:15 PM

Inorganic Data
(Mercury Analysis)

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-01	**Date Collected**	: 12/12/24 08:25
Client ID	: MW-11S	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 11:01
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: DJR
Lab File ID	: WG2010370.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 12/17/24

		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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-02	**Date Collected**	: 12/12/24 08:42
Client ID	: MW-11D	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 11:04
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: DJR
Lab File ID	: WG2010370.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 12/17/24

		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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-03	**Date Collected**	: 12/12/24 09:50
Client ID	: MW-1SR	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 11:07
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: DJR
Lab File ID	: WG2010370.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 12/17/24

		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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-04	**Date Collected**	: 12/12/24 10:10
Client ID	: MW-1DR2	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 11:11
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: DJR
Lab File ID	: WG2010370.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 12/17/24

		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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-05	**Date Collected**	: 12/12/24 11:40
Client ID	: MP-1	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 11:14
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: DJR
Lab File ID	: WG2010370.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 12/17/24

		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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-06	**Date Collected**	: 12/12/24 12:05
Client ID	: MP-1D	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 10:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: DJR
Lab File ID	: WG2010370.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 12/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	0.00120	0.00020	0.00009	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-07	**Date Collected**	: 12/12/24 12:00
Client ID	: DUP_121224	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 10:38
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: DJR
Lab File ID	: WG2010370.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 12/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	0.00103	0.00020	0.00009	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-08	**Date Collected**	: 12/12/24 14:00
Client ID	: MW-13S	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 11:17
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: DJR
Lab File ID	: WG2010370.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 12/17/24

		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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-09	**Date Collected**	: 12/12/24 14:05
Client ID	: MW-13D	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 11:21
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: DJR
Lab File ID	: WG2010370.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 12/17/24

		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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-10	**Date Collected**	: 12/12/24 13:30
Client ID	: EB_121224	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 11:24
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: DJR
Lab File ID	: WG2010370.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 12/17/24

		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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010364-1	**Date Collected**	: NA
Client ID	: WG2010364-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/18/24 10:21
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: DJR
Lab File ID	: WG2010370.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 12/17/24

		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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010364-6	**Date Collected**	: 12/12/24 12:00
Client ID	: DUP_121224DUP	**Date Received**	: 12/12/24
Sample Location	:	**Date Analyzed**	: 12/18/24 10:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: DJR
Lab File ID	: WG2010370.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 12/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	0.00104	0.00020	0.0001	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-01	**Date Collected**	: 12/12/24 08:25
Client ID	: MW-11S	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 20:21
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG2010709.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 12/17/24

		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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-02	**Date Collected**	: 12/12/24 08:42
Client ID	: MW-11D	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 20:24
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG2010709.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 12/17/24

		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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-03	**Date Collected**	: 12/12/24 09:50
Client ID	: MW-1SR	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 20:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG2010709.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 12/17/24

		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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-04	**Date Collected**	: 12/12/24 10:10
Client ID	: MW-1DR2	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 20:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG2010709.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 12/17/24

		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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-05	**Date Collected**	: 12/12/24 11:40
Client ID	: MP-1	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 20:34
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG2010709.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 12/17/24

		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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-06	**Date Collected**	: 12/12/24 12:05
Client ID	: MP-1D	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 19:19
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG2010709.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 12/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	0.00088	0.00020	0.00009	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-07	**Date Collected**	: 12/12/24 12:00
Client ID	: DUP_121224	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 20:38
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG2010709.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 12/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	0.00074	0.00020	0.00009	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-08	**Date Collected**	: 12/12/24 14:00
Client ID	: MW-13S	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 19:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG2010709.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 12/17/24

		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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-09	**Date Collected**	: 12/12/24 14:05
Client ID	: MW-13D	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 20:41
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG2010709.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 12/17/24

		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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-10	**Date Collected**	: 12/12/24 13:30
Client ID	: EB_121224	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 20:44
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG2010709.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 12/17/24

		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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010404-1	**Date Collected**	: NA
Client ID	: WG2010404-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/18/24 19:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG2010709.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 12/17/24

		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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010404-6	**Date Collected**	: 12/12/24 14:00
Client ID	: MW-13SDUP	**Date Received**	: 12/12/24
Sample Location	:	**Date Analyzed**	: 12/18/24 19:36
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG2010709.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 12/17/24

		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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1912591-1			R1912591-3			R1912591-5		R1912591-7	
Date Analyzed	:	12/17/24 16:59			12/17/24 18:18			12/17/24 20:31		12/17/24 21:16	
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury		0.00300	0.0029	96	0.0050	0.00480	96	0.00490	97	0.00500	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1912591-9			R1912591-11		R1912591-13	
Date Analyzed :				12/17/24 22:33			12/17/24 23:47		12/17/24 23:53	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00500	100	0.00500	100	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 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1912591-15			R1912591-17		R1912591-19	
Date Analyzed :				12/18/24 05:41			12/18/24 06:52		12/18/24 07:43	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00480	95	0.00490	98	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1912591-21			R1912591-23		R1912591-25	
Date Analyzed :				12/18/24 08:25			12/18/24 09:28		12/18/24 10:08	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00510	101	0.00500	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:				R1912591-27			R1912591-29			
Date Analyzed	:				12/18/24 10:54			12/18/24 11:27			
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury					**0.0050**	**0.00510**	**102**	**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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1912805-1			R1912805-3			R1912805-5		R1912805-7	
Date Analyzed	:	12/18/24 09:35			12/18/24 10:30			12/18/24 11:19		12/18/24 12:04	
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury		0.00300	0.0030	99	0.0050	0.00510	101	0.00510	102	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1912805-9			R1912805-11		R1912805-13	
Date Analyzed :				12/18/24 12:45			12/18/24 13:08		12/18/24 14:47	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00510	101	0.00510	101	0.00490	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1912805-15			R1912805-17		R1912805-19	
Date Analyzed :				12/18/24 15:24			12/18/24 16:42		12/18/24 18:19	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00500	100	0.00490	99	0.00490	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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1912805-21			R1912805-23			
Date Analyzed :				12/18/24 19:39			12/18/24 20:54			
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				**0.0050**	**0.00500**	**100**	**0.00470**	**93**		

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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1		

		Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:	R1912591-2		R1912591-4		R1912591-6		R1912591-8		WG2010364-1	
Date Analyzed	:	12/17/24 17:02		12/17/24 18:21		12/17/24 20:34		12/17/24 21:19		12/18/24 10:21	
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1912591-10		R1912591-12		R1912591-14			
Date Analyzed :			12/17/24 22:37		12/17/24 23:50		12/17/24 23:57			
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1912591-16		R1912591-18		R1912591-20			
Date Analyzed :			12/18/24 05:45		12/18/24 06:55		12/18/24 07:46			
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1912591-22		R1912591-24		R1912591-26			
Date Analyzed :			12/18/24 08:29		12/18/24 09:32		12/18/24 10:11			
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1		

	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
Lab ID :			R1912591-28		R1912591-30			
Date Analyzed :			12/18/24 10:58		12/18/24 11:30			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Mercury			0.0000910	U	0.0000910	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3		

		Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:	R1912805-2		R1912805-4		R1912805-6		R1912805-8		WG2010404-1	
Date Analyzed	:	12/18/24 09:38		12/18/24 10:33		12/18/24 11:23		12/18/24 12:07		12/18/24 19:13	
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1912805-10		R1912805-12		R1912805-14			
Date Analyzed :			12/18/24 12:48		12/18/24 13:11		12/18/24 14:51			
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1912805-16		R1912805-18		R1912805-20			
Date Analyzed :			12/18/24 15:27		12/18/24 16:45		12/18/24 18:22			
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3		

	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
Lab ID :			R1912805-22		R1912805-24			
Date Analyzed :			12/18/24 19:42		12/18/24 20:58			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	Q
Mercury			0.0000910	U	0.0000910	U			

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix**	: WATER
Lab Sample ID	: L2473162-06		
Matrix Spike	: WG2010364-3	**MS Analysis Date**	: 12/18/24 10:31
Matrix Spike Dup	: WG2010364-4	**MSD Analysis Date**	: 12/18/24 10:34

		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	0.00120	0.005	0.00545	85	0.005	0.00546	85	0	70-130	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: DUP_121224	**Matrix**	: WATER
Lab Sample ID	: L2473162-07		
Matrix Spike	: WG2010364-5	**MS Analysis Date**	: 12/18/24 10:41
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	0.00103	0.005	0.00567	93					70-130	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix**	: WATER
Lab Sample ID	: L2473162-06		
Matrix Spike	: WG2010404-3	**MS Analysis Date**	: 12/18/24 19:23
Matrix Spike Dup	: WG2010404-4	**MSD Analysis Date**	: 12/18/24 19:26

		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	0.00088	0.005	0.00572	97	0.005	0.00573	97	0	75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-13S	**Matrix**	: WATER
Lab Sample ID	: L2473162-08		
Matrix Spike	: WG2010404-5	**MS Analysis Date**	: 12/18/24 19:32
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	0.00494	99					75-125	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: DUP_121224	**Matrix**	: WATER
Lab Sample ID	: L2473162-07	**Analysis Date**	: 12/18/24 10:38
Dup Sample ID	: WG2010364-6	**DUP Analysis Date**	: 12/18/24 10:44

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Mercury, Total	0.00103	0.00104	1	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-13S	**Matrix**	: WATER
Lab Sample ID	: L2473162-08	**Analysis Date**	: 12/18/24 19:29
Dup Sample ID	: WG2010404-6	**DUP Analysis Date**	: 12/18/24 19:36

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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2010364-2	**LCS Analysis Date**	: 12/18/24 10:25
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, Total	0.00100	0.00111	111.					85-115	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2010404-2	**LCS Analysis Date**	: 12/18/24 19:16
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	0.000970	98.					85-115	20

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 245.1

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2473162-01	12/17/24 21:22	-	25
L2473162-02	12/17/24 21:22	-	25
L2473162-03	12/17/24 21:22	-	25
L2473162-04	12/17/24 21:22	-	25
L2473162-05	12/17/24 21:22	-	25
L2473162-06	12/17/24 21:22	-	25
L2473162-07	12/17/24 21:22	-	25
L2473162-08	12/17/24 21:22	-	25
L2473162-09	12/17/24 21:22	-	25
L2473162-10	12/17/24 21:22	-	25
WG2010364-1	12/17/24 21:22	-	25
WG2010364-2	12/17/24 21:22	-	25
WG2010364-3	12/17/24 21:22	-	25
WG2010364-4	12/17/24 21:22	-	25
WG2010364-5	12/17/24 21:22	-	25
WG2010364-6	12/17/24 21:22	-	25

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 245.1

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2473162-01	12/17/24 21:22	-	25
L2473162-02	12/17/24 21:22	-	25
L2473162-03	12/17/24 21:22	-	25
L2473162-04	12/17/24 21:22	-	25
L2473162-05	12/17/24 21:22	-	25
L2473162-06	12/17/24 21:22	-	25
L2473162-07	12/17/24 21:22	-	25
L2473162-08	12/17/24 21:22	-	25
L2473162-09	12/17/24 21:22	-	25
L2473162-10	12/17/24 21:22	-	25
WG2010404-1	12/17/24 21:22	-	25
WG2010404-2	12/17/24 21:22	-	25
WG2010404-3	12/17/24 21:22	-	25
WG2010404-4	12/17/24 21:22	-	25
WG2010404-5	12/17/24 21:22	-	25
WG2010404-6	12/17/24 21:22	-	25

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1	**Analysis Method**	: 3,245.1
Start Date	: 12/17/24 16:59	**End Date**	: 12/18/24 11:30

Sample Number	Dilution Factor	Analysis Time	Mercury, Total
R1912591-1 ICV	1	16:59:38	X
R1912591-2 ICB	1	17:02:57	X
R1912591-3 CCV	1	18:18:12	X
R1912591-4 CCB	1	18:21:31	X
R1912591-5 CCV	1	20:31:17	X
R1912591-6 CCB	1	20:34:35	X
R1912591-7 CCV	1	21:16:28	X
R1912591-8 CCB	1	21:19:46	X
R1912591-9 CCV	1	22:33:56	X
R1912591-10 CCB	1	22:37:15	X
R1912591-11 CCV	1	23:47:23	X
R1912591-12 CCB	1	23:50:40	X
R1912591-13 CCV	1	23:53:58	X
R1912591-14 CCB	1	23:57:16	X
R1912591-15 CCV	1	05:41:44	X
R1912591-16 CCB	1	05:45:02	X
R1912591-17 CCV	1	06:52:11	X
R1912591-18 CCB	1	06:55:29	X
R1912591-19 CCV	1	07:43:20	X
R1912591-20 CCB	1	07:46:39	X
R1912591-21 CCV	1	08:25:48	X
R1912591-22 CCB	1	08:29:05	X
R1912591-23 CCV	1	09:28:57	X
R1912591-24 CCB	1	09:32:16	X
R1912591-25 CCV	1	10:08:35	X
R1912591-26 CCB	1	10:11:54	X
WG2010364-1 BLANK	1	10:21:46	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1	**Analysis Method**	: 3,245.1
Start Date	: 12/17/24 16:59	**End Date**	: 12/18/24 11:30

Sample Number	Dilution Factor	Analysis Time	Mercury, Total
WG2010364-2 LCS	1	10:25:03	X
L2473162-06	1	10:28:21	X
WG2010364-3 MS	1	10:31:39	X
WG2010364-4 MSD	1	10:34:57	X
L2473162-07	1	10:38:15	X
WG2010364-5 MS	1	10:41:32	X
WG2010364-6 DUP	1	10:44:49	X
R1912591-27 CCV	1	10:54:43	X
R1912591-28 CCB	1	10:58:01	X
L2473162-01	1	11:01:19	X
L2473162-02	1	11:04:36	X
L2473162-03	1	11:07:54	X
L2473162-04	1	11:11:12	X
L2473162-05	1	11:14:30	X
L2473162-08	1	11:17:48	X
L2473162-09	1	11:21:06	X
L2473162-10	1	11:24:23	X
R1912591-29 CCV	1	11:27:41	X
R1912591-30 CCB	1	11:30:59	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Analysis Method**	: 3,245.1
Start Date	: 12/18/24 09:35	**End Date**	: 12/18/24 20:58

Sample Number	Dilution Factor	Analysis Time	Mercury, Dissolved
R1912805-1 ICV	1	09:35:04	X
R1912805-2 ICB	1	09:38:22	X
R1912805-3 CCV	1	10:30:09	X
R1912805-4 CCB	1	10:33:27	X
R1912805-5 CCV	1	11:19:58	X
R1912805-6 CCB	1	11:23:17	X
R1912805-7 CCV	1	12:04:00	X
R1912805-8 CCB	1	12:07:18	X
R1912805-9 CCV	1	12:45:05	X
R1912805-10 CCB	1	12:48:23	X
R1912805-11 CCV	1	13:08:13	X
R1912805-12 CCB	1	13:11:31	X
R1912805-13 CCV	1	14:47:58	X
R1912805-14 CCB	1	14:51:16	X
R1912805-15 CCV	1	15:24:39	X
R1912805-16 CCB	1	15:27:57	X
R1912805-17 CCV	1	16:42:33	X
R1912805-18 CCB	1	16:45:52	X
R1912805-19 CCV	1	18:19:05	X
R1912805-20 CCB	1	18:22:24	X
WG2010404-1 BLANK	1	19:13:09	X
WG2010404-2 LCS	1	19:16:28	X
L2473162-06	1	19:19:45	X
WG2010404-3 MS	1	19:23:03	X
WG2010404-4 MSD	1	19:26:22	X
L2473162-08	1	19:29:41	X
WG2010404-5 MS	1	19:32:59	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Analysis Method**	: 3,245.1
Start Date	: 12/18/24 09:35	**End Date**	: 12/18/24 20:58

Sample Number	Dilution Factor	Analysis Time	Mercury, Dissolved
WG2010404-6 DUP	1	19:36:18	X
R1912805-21 CCV	1	19:39:36	X
R1912805-22 CCB	1	19:42:54	X
L2473162-01	1	20:21:39	X
L2473162-02	1	20:24:57	X
L2473162-03	1	20:28:16	X
L2473162-04	1	20:31:34	X
L2473162-05	1	20:34:53	X
L2473162-07	1	20:38:11	X
L2473162-09	1	20:41:29	X
L2473162-10	1	20:44:48	X
R1912805-23 CCV	1	20:54:42	X
R1912805-24 CCB	1	20:58:01	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.

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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.

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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 : 12/17/2024
Name :

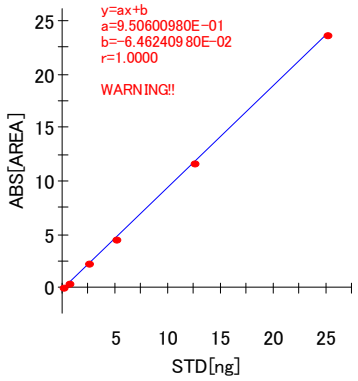
Method

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	0.0427	0.1129	-	12/17/2024 16:39	DJR,NIC1
2	0.200	2.500	2.500	2.500	0.500	0.4741	0.5667	13.3	12/17/2024 16:43	DJR,NIC1
3	1.000	2.500	2.500	2.500	2.500	2.2341	2.4182	3.3	12/17/2024 16:46	DJR,NIC1
4	2.000	2.500	2.500	2.500	5.000	4.5914	4.8980	2.0	12/17/2024 16:49	DJR,NIC1
5	5.000	2.500	2.500	2.500	12.500	11.7741	12.4539	0.4	12/17/2024 16:53	DJR,NIC1
6	10.000	2.500	2.500	2.500	25.000	23.7482	25.0503	0.2	12/17/2024 16:56	DJR,NIC1

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	6.7469	7.1655	2.866	-	12/17/2024 16:59	DJR,NIC1
2	ICB	2.500	2.500	2.500	0.0333	0.1030	0.041	-	12/17/2024 17:02	DJR,NIC1
3	WG2010180-1 WG2010180	2.500	2.500	2.500	0.0346	0.1044	0.042	-	12/17/2024 17:30	DJR,NIC1
4	WG2010180-2 WG2010180	2.500	2.500	2.500	2.2155	2.3986	0.959	-	12/17/2024 17:34	DJR,NIC1
5	L2472320-01 WG2010180	2.500	2.500	2.500	0.0398	0.1099	0.044	-	12/17/2024 17:37	DJR,NIC1
6	WG2010180-3 WG2010180	2.500	2.500	2.500	10.7681	11.3957	4.558	-	12/17/2024 17:40	DJR,NIC1

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	WG2010180-4 WG2010180	2.500	2.500	2.500	0.0387	0.1087	0.043	-	12/17/2024 17:44	DJR,NIC1
8	L2470878-01 WG2010180	2.500	2.500	2.500	0.0876	0.1601	0.064	-	12/17/2024 17:47	DJR,NIC1
9	L2470878-02 WG2010180	2.500	2.500	2.500	0.0583	0.1293	0.052	-	12/17/2024 17:50	DJR,NIC1
10	L2470878-03 WG2010180	2.500	2.500	2.500	0.5504	0.6470	0.259	-	12/17/2024 17:59	DJR,NIC1
11	L2470878-04 WG2010180	2.500	2.500	2.500	0.0570	0.1279	0.051	-	12/17/2024 18:03	DJR,NIC1
12	L2470878-06 WG2010180	2.500	2.500	2.500	0.0354	0.1052	0.042	-	12/17/2024 18:06	DJR,NIC1
13	Check STD(5ug/L)	2.500	2.500	2.500	11.3994	12.0598	4.824	96.5	12/17/2024 18:18	DJR,NIC1
14	Check Blank	2.500	2.500	2.500	0.0405	0.1106	0.044	-	12/17/2024 18:21	DJR,NIC1
15	XCLR SOL	2.500	2.500	2.500	0.0444	0.1147	0.046	-	12/17/2024 18:24	DJR,NIC1
16	WG2010171-1 WG2010171	2.500	2.500	2.500	0.0375	0.1074	0.043	-	12/17/2024 19:35	DJR,NIC1
17	WG2010171-2 WG2010171	2.500	2.500	2.500	2.2853	2.4720	0.989	-	12/17/2024 19:38	DJR,NIC1
18	L2473084-08 WG2010171	2.500	2.500	2.500	0.1370	0.2121	0.085	-	12/17/2024 19:41	DJR,NIC1
19	WG2010171-3 WG2010171	2.500	2.500	2.500	10.9660	11.6038	4.642	-	12/17/2024 19:45	DJR,NIC1
20	WG2010171-4 WG2010171	2.500	2.500	2.500	0.1410	0.2163	0.087	-	12/17/2024 19:48	DJR,NIC1
21	L2473084-09 WG2010171	2.500	2.500	2.500	0.0542	0.1250	0.050	-	12/17/2024 19:51	DJR,NIC1
22	L2473084-10 WG2010171	2.500	2.500	2.500	0.1373	0.2124	0.085	-	12/17/2024 19:54	DJR,NIC1
23	Check STD(5ug/L)	2.500	2.500	2.500	11.5194	12.1860	4.874	97.5	12/17/2024 20:31	DJR,NIC1
24	Check Blank	2.500	2.500	2.500	0.0478	0.1183	0.047	-	12/17/2024 20:34	DJR,NIC1
25	WG2010206-1 WG2010206	2.500	2.500	2.500	0.0363	0.1062	0.042	-	12/17/2024 20:43	DJR,NIC1
26	WG2010206-2 WG2010206	2.500	2.500	2.500	2.2280	2.4118	0.965	-	12/17/2024 20:46	DJR,NIC1
27	L2472497-02 WG2010206	2.500	2.500	2.500	0.0605	0.1316	0.053	-	12/17/2024 20:50	DJR,NIC1
28	WG2010206-3 WG2010206	2.500	2.500	2.500	10.7041	11.3283	4.531	-	12/17/2024 20:53	DJR,NIC1
29	WG2010206-4 WG2010206	2.500	2.500	2.500	0.0604	0.1315	0.053	-	12/17/2024 20:56	DJR,NIC1
30	L2472497-01 WG2010206	2.500	2.500	2.500	0.1557	0.2318	0.093	-	12/17/2024 20:59	DJR,NIC1
31	L2472497-03 WG2010206	2.500	2.500	2.500	0.0508	0.1214	0.049	-	12/17/2024 21:03	DJR,NIC1
32	L2472497-04 WG2010206	2.500	2.500	2.500	0.0405	0.1106	0.044	-	12/17/2024 21:06	DJR,NIC1
33	L2472497-05 WG2010206	2.500	2.500	2.500	0.0851	0.1575	0.063	-	12/17/2024 21:09	DJR,NIC1
34	L2472497-06 WG2010206	2.500	2.500	2.500	0.0481	0.1186	0.047	-	12/17/2024 21:13	DJR,NIC1
35	Check STD(5ug/L)	2.500	2.500	2.500	11.7109	12.3875	4.955	99.1	12/17/2024 21:16	DJR,NIC1
36	Check Blank	2.500	2.500	2.500	0.0527	0.1234	0.049	-	12/17/2024 21:19	DJR,NIC1
37	L2472497-07 WG2010206	2.500	2.500	2.500	0.0564	0.1273	0.051	-	12/17/2024 21:23	DJR,NIC1
38	L2472497-08 WG2010206	2.500	2.500	2.500	0.0566	0.1275	0.051	-	12/17/2024 21:26	DJR,NIC1

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
39	L2472497-09 WG2010206	2.500	2.500	2.500	0.0438	0.1141	0.046	-	12/17/2024 22:14	DJR,NIC1
40	L2472497-10 WG2010206	2.500	2.500	2.500	0.0538	0.1246	0.050	-	12/17/2024 22:17	DJR,NIC1
41	L2472497-11 WG2010206	2.500	2.500	2.500	0.0455	0.1158	0.046	-	12/17/2024 22:20	DJR,NIC1
42	L2472497-12 WG2010206	2.500	2.500	2.500	0.6129	0.7127	0.285	-	12/17/2024 22:24	DJR,NIC1
43	L2472497-13 WG2010206	2.500	2.500	2.500	0.0431	0.1133	0.045	-	12/17/2024 22:27	DJR,NIC1
44	L2472497-14 WG2010206	2.500	2.500	2.500	0.0735	0.1453	0.058	-	12/17/2024 22:30	DJR,NIC1
45	Check STD(5ug/L)	2.500	2.500	2.500	11.7695	12.4491	4.980	99.6	12/17/2024 22:33	DJR,NIC1
46	Check Blank	2.500	2.500	2.500	0.0528	0.1235	0.049	-	12/17/2024 22:37	DJR,NIC1
47	L2472497-15 WG2010206	2.500	2.500	2.500	0.1207	0.1950	0.078	-	12/17/2024 23:27	DJR,NIC1
48	L2472497-16 WG2010206	2.500	2.500	2.500	0.0629	0.1342	0.054	-	12/17/2024 23:30	DJR,NIC1
49	L2472497-17 WG2010206	2.500	2.500	2.500	0.0707	0.1424	0.057	-	12/17/2024 23:34	DJR,NIC1
50	L2472497-18 WG2010206	2.500	2.500	2.500	0.0787	0.1508	0.060	-	12/17/2024 23:37	DJR,NIC1
51	L2472497-19 WG2010206	2.500	2.500	2.500	0.1427	0.2181	0.087	-	12/17/2024 23:40	DJR,NIC1
52	L2472497-20 WG2010206	2.500	2.500	2.500	0.1507	0.2265	0.091	-	12/17/2024 23:44	DJR,NIC1
53	Check STD(5ug/L)	2.500	2.500	2.500	11.7665	12.4459	4.978	99.6	12/17/2024 23:47	DJR,NIC1
54	Check Blank	2.500	2.500	2.500	0.0625	0.1337	0.053	-	12/17/2024 23:50	DJR,NIC1
55	Check STD(5ug/L)	2.500	2.500	2.500	11.7619	12.4411	4.976	99.5	12/17/2024 23:53	DJR,NIC1
56	Check Blank	2.500	2.500	2.500	0.0756	0.1475	0.059	-	12/17/2024 23:57	DJR,NIC1
57	Check STD(5ug/L)	2.500	2.500	2.500	11.2345	11.8863	4.755	95.1	12/18/2024 05:41	JWN,NIC1
58	Check Blank	2.500	2.500	2.500	0.0601	0.1312	0.052	-	12/18/2024 05:45	JWN,NIC1
59	WG2010339-1 WG2010339	2.500	2.500	2.500	0.0548	0.1256	0.050	-	12/18/2024 05:58	JWN,NIC1
60	xWG2010339-2 WG2010339	2.500	2.500	2.500	2.6736	2.8805	1.152	-	12/18/2024 06:01	JWN,NIC1
61	I2472730-01 WG2010339	2.500	2.500	2.500	0.1489	0.2246	0.090	-	12/18/2024 06:04	JWN,NIC1
62	WG2010339-3 WG2010339	2.500	2.500	2.500	11.6808	12.3558	4.942	-	12/18/2024 06:07	JWN,NIC1
63	WG2010339-4 WG2010339	2.500	2.500	2.500	0.1511	0.2269	0.091	-	12/18/2024 06:11	JWN,NIC1
64	I2472598-06 WG2010339	2.500	2.500	2.500	0.2076	0.2864	0.115	-	12/18/2024 06:14	JWN,NIC1
65	I2472617-01 WG2010339	2.500	2.500	2.500	0.2980	0.3815	0.153	-	12/18/2024 06:17	JWN,NIC1
66	I2472712-01 WG2010339	2.500	2.500	2.500	0.0339	0.1036	0.041	-	12/18/2024 06:21	JWN,NIC1
67	I2472721-01 WG2010339	2.500	2.500	2.500	0.0635	0.1348	0.054	-	12/18/2024 06:24	JWN,NIC1
68	I2472725-01 WG2010339	2.500	2.500	2.500	0.2342	0.3144	0.126	-	12/18/2024 06:27	JWN,NIC1
69	Check STD(5ug/L)	2.500	2.500	2.500	11.5331	12.2004	4.880	97.6	12/18/2024 06:52	JWN,NIC1
70	Check Blank	2.500	2.500	2.500	0.0686	0.1401	0.056	-	12/18/2024 06:55	JWN,NIC1

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
71	WG2010174-1 WG2010174	2.500	2.500	2.500	0.0581	0.1291	0.052	-	12/18/2024 07:16	JWN,NIC1
72	WG2010174-2 WG2010174	2.500	2.500	2.500	2.2032	2.3857	0.954	-	12/18/2024 07:20	JWN,NIC1
73	I2472751-07 WG2010174	2.500	2.500	2.500	0.4538	0.5454	0.218	-	12/18/2024 07:23	JWN,NIC1
74	WG2010174-3 WG2010174	2.500	2.500	2.500	11.8772	12.5624	5.025	-	12/18/2024 07:26	JWN,NIC1
75	WG2010174-4 WG2010174	2.500	2.500	2.500	11.5133	12.1796	4.872	-	12/18/2024 07:30	JWN,NIC1
76	I2472742-02 WG2010174	2.500	2.500	2.500	0.0707	0.1424	0.057	-	12/18/2024 07:33	JWN,NIC1
77	I2472742-03 WG2010174	2.500	2.500	2.500	0.0696	0.1412	0.056	-	12/18/2024 07:36	JWN,NIC1
78	L2472742-04 WG2010174	2.500	2.500	2.500	0.0734	0.1452	0.058	-	12/18/2024 07:40	JWN,NIC1
79	Check STD(5ug/L)	2.500	2.500	2.500	11.9372	12.6255	5.050	101.0	12/18/2024 07:43	JWN,NIC1
80	Check Blank	2.500	2.500	2.500	0.0775	0.1495	0.060	-	12/18/2024 07:46	JWN,NIC1
81	L2472742-05 WG2010174	2.500	2.500	2.500	0.1053	0.1788	0.072	-	12/18/2024 07:52	JWN,NIC1
82	L2472742-06 WG2010174	2.500	2.500	2.500	2.6118	2.8155	1.126	-	12/18/2024 07:56	JWN,NIC1
83	L2472742-07 WG2010174	2.500	2.500	2.500	0.1634	0.2399	0.096	-	12/18/2024 07:59	JWN,NIC1
84	L2472742-08 WG2010174	2.500	2.500	2.500	0.1065	0.1800	0.072	-	12/18/2024 08:02	JWN,NIC1
85	L2472742-09 WG2010174	2.500	2.500	2.500	0.0855	0.1579	0.063	-	12/18/2024 08:05	JWN,NIC1
86	L2472742-10 WG2010174	2.500	2.500	2.500	0.0964	0.1694	0.068	-	12/18/2024 08:09	JWN,NIC1
87	L2472742-11 WG2010174	2.500	2.500	2.500	0.0874	0.1599	0.064	-	12/18/2024 08:12	JWN,NIC1
88	L2472742-12 WG2010174	2.500	2.500	2.500	0.3085	0.3925	0.157	-	12/18/2024 08:15	JWN,NIC1
89	L2472751-02 WG2010174	2.500	2.500	2.500	0.0833	0.1556	0.062	-	12/18/2024 08:19	JWN,NIC1
90	L2472751-03 WG2010174	2.500	2.500	2.500	0.0844	0.1568	0.063	-	12/18/2024 08:22	JWN,NIC1
91	Check STD(5ug/L)	2.500	2.500	2.500	11.9918	12.6829	5.073	101.5	12/18/2024 08:25	JWN,NIC1
92	Check Blank	2.500	2.500	2.500	0.0877	0.1602	0.064	-	12/18/2024 08:29	JWN,NIC1
93	L2472751-04 WG2010174	2.500	2.500	2.500	0.0915	0.1642	0.066	-	12/18/2024 08:32	JWN,NIC1
94	L2472751-05 WG2010174	2.500	2.500	2.500	0.0928	0.1656	0.066	-	12/18/2024 08:35	JWN,NIC1
95	L2472751-06 WG2010174	2.500	2.500	2.500	0.0968	0.1698	0.068	-	12/18/2024 08:39	JWN,NIC1
96	L2472751-08 WG2010174	2.500	2.500	2.500	0.1930	0.2710	0.108	-	12/18/2024 08:42	JWN,NIC1
97	L2472751-09 WG2010174	2.500	2.500	2.500	0.1391	0.2143	0.086	-	12/18/2024 08:45	JWN,NIC1
98	WG2010339-2 WG2010339	2.500	2.500	2.500	2.3425	2.5322	1.013	-	12/18/2024 08:55	JWN,NIC1
99	WG2010332-1 WG2010332	2.500	2.500	2.500	0.0856	0.1580	0.063	-	12/18/2024 09:15	JWN,NIC1
100	WG2010332-2 WG2010332	2.500	2.500	2.500	2.2206	2.4040	0.962	-	12/18/2024 09:19	JWN,NIC1
101	L2472122-06 WG2010332	2.500	2.500	2.500	1.4964	1.6421	0.657	-	12/18/2024 09:22	JWN,NIC1
102	WG2010332-3 WG2010332	2.500	2.500	2.500	3.4280	3.6741	1.470	-	12/18/2024 09:25	JWN,NIC1

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
103	Check STD(5ug/L)	2.500	2.500	2.500	11.8995	12.5859	5.034	100.7	12/18/2024 09:28	JWN,NIC1
104	Check Blank	2.500	2.500	2.500	0.0980	0.1711	0.068	-	12/18/2024 09:32	JWN,NIC1
105	WG2010332-4 WG2010332	2.500	2.500	2.500	1.4627	1.6067	0.643	-	12/18/2024 09:35	JWN,NIC1
106	L2468047-01 WG2010332	2.500	2.500	2.500	0.1088	0.1824	0.073	-	12/18/2024 09:38	JWN,NIC1
107	L2472497-21 WG2010332	2.500	2.500	2.500	0.1072	0.1808	0.072	-	12/18/2024 09:42	JWN,NIC1
108	L2472497-22 WG2010332	2.500	2.500	2.500	0.1148	0.1887	0.075	-	12/18/2024 09:45	JWN,NIC1
109	L2472497-24 WG2010332	2.500	2.500	2.500	0.1079	0.1815	0.073	-	12/18/2024 09:48	JWN,NIC1
110	L2472527-01 WG2010332	2.500	2.500	2.500	0.1671	0.2438	0.098	-	12/18/2024 09:52	JWN,NIC1
111	L2472527-02 WG2010332	2.500	2.500	2.500	0.1288	0.2035	0.081	-	12/18/2024 09:55	JWN,NIC1
112	L2472527-03 WG2010332	2.500	2.500	2.500	0.1165	0.1905	0.076	-	12/18/2024 09:58	JWN,NIC1
113	xWG2010332-3 WG2010332	2.500	2.500	2.500	4.0455	4.3237	1.729	-	12/18/2024 10:01	JWN,NIC1
114	PS2122-06	2.500	2.500	2.500	11.1587	11.8066	4.723	-	12/18/2024 10:05	JWN,NIC1
115	Check STD(5ug/L)	2.500	2.500	2.500	11.9487	12.6376	5.055	101.1	12/18/2024 10:08	JWN,NIC1
116	Check Blank	2.500	2.500	2.500	0.1250	0.1995	0.080	-	12/18/2024 10:11	JWN,NIC1
117	WG2010364-1 WG2010364	2.500	2.500	2.500	0.1077	0.1813	0.073	-	12/18/2024 10:21	JWN,NIC1
118	WG2010364-2 WG2010364	2.500	2.500	2.500	2.5809	2.7830	1.113	-	12/18/2024 10:25	JWN,NIC1
119	I2473162-06 WG2010364	2.500	2.500	2.500	2.8027	3.0163	1.207	-	12/18/2024 10:28	JWN,NIC1
120	WG2010364-3 WG2010364	2.500	2.500	2.500	12.8875	13.6252	5.450	-	12/18/2024 10:31	JWN,NIC1
121	WG2010364-4 WG2010364	2.500	2.500	2.500	12.9206	13.6600	5.464	-	12/18/2024 10:34	JWN,NIC1
122	I2473162-07 WG2010364	2.500	2.500	2.500	2.3980	2.5906	1.036	-	12/18/2024 10:38	JWN,NIC1
123	WG2010364-5 WG2010364	2.500	2.500	2.500	13.4226	14.1881	5.675	-	12/18/2024 10:41	JWN,NIC1
124	WG2010364-6 WG2010364	2.500	2.500	2.500	2.4258	2.6198	1.048	-	12/18/2024 10:44	JWN,NIC1
125	I2472719-01 WG2010364	2.500	2.500	2.500	0.1748	0.2519	0.101	-	12/18/2024 10:48	JWN,NIC1
126	I2473045-07 WG2010364	2.500	2.500	2.500	0.1445	0.2200	0.088	-	12/18/2024 10:51	JWN,NIC1
127	Check STD(5ug/L)	2.500	2.500	2.500	11.9995	12.6910	5.076	101.5	12/18/2024 10:54	JWN,NIC1
128	Check Blank	2.500	2.500	2.500	0.1298	0.2045	0.082	-	12/18/2024 10:58	JWN,NIC1
129	I2473162-01 WG2010364	2.500	2.500	2.500	0.1236	0.1980	0.079	-	12/18/2024 11:01	JWN,NIC1
130	I2473162-02 WG2010364	2.500	2.500	2.500	0.1247	0.1992	0.080	-	12/18/2024 11:04	JWN,NIC1
131	I2473162-03 WG2010364	2.500	2.500	2.500	0.1232	0.1976	0.079	-	12/18/2024 11:07	JWN,NIC1
132	I2473162-04 WG2010364	2.500	2.500	2.500	0.1222	0.1965	0.079	-	12/18/2024 11:11	JWN,NIC1
133	I2473162-05 WG2010364	2.500	2.500	2.500	0.1237	0.1981	0.079	-	12/18/2024 11:14	JWN,NIC1
134	I2473162-08 WG2010364	2.500	2.500	2.500	0.1280	0.2026	0.081	-	12/18/2024 11:17	JWN,NIC1

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
135	I2473162-09 WG2010364	2.500	2.500	2.500	0.1246	0.1991	0.080	-	12/18/2024 11:21	JWN,NIC1
136	I2473162-10 WG2010364	2.500	2.500	2.500	0.1245	0.1990	0.080	-	12/18/2024 11:24	JWN,NIC1
137	Check STD(5ug/L)	2.500	2.500	2.500	11.9300	12.6179	5.047	100.9	12/18/2024 11:27	JWN,NIC1
138	Check Blank	2.500	2.500	2.500	0.1364	0.2115	0.085	-	12/18/2024 11:30	JWN,NIC1

Title :
Date : 12/18/2024
Name :

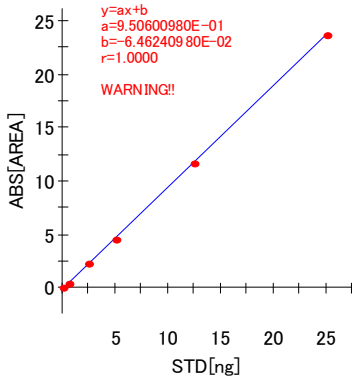
Method

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	0.0427	0.1129	-	12/17/2024 16:39	DJR,NIC1
2	0.200	2.500	2.500	2.500	0.500	0.4741	0.5667	13.3	12/17/2024 16:43	DJR,NIC1
3	1.000	2.500	2.500	2.500	2.500	2.2341	2.4182	3.3	12/17/2024 16:46	DJR,NIC1
4	2.000	2.500	2.500	2.500	5.000	4.5914	4.8980	2.0	12/17/2024 16:49	DJR,NIC1
5	5.000	2.500	2.500	2.500	12.500	11.7741	12.4539	0.4	12/17/2024 16:53	DJR,NIC1
6	10.000	2.500	2.500	2.500	25.000	23.7482	25.0503	0.2	12/17/2024 16:56	DJR,NIC1

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	WG2010357-1 WG2010357	2.500	2.500	2.500	0.1112	0.1850	0.074	-	12/18/2024 11:42	JWN,NIC1
2	WG2010357-2 WG2010357	2.500	2.500	2.500	2.2118	2.3947	0.958	-	12/18/2024 11:45	JWN,NIC1
3	L2472564-02 WG2010357	2.500	2.500	2.500	0.1291	0.2038	0.082	-	12/18/2024 11:49	JWN,NIC1
4	WG2010357-3 WG2010357	2.500	2.500	2.500	11.1823	11.8314	4.733	-	12/18/2024 11:52	JWN,NIC1
5	WG2010357-4 WG2010357	2.500	2.500	2.500	0.1314	0.2062	0.082	-	12/18/2024 11:55	JWN,NIC1
6	L2472564-01 WG2010357	2.500	2.500	2.500	0.1318	0.2066	0.083	-	12/18/2024 11:58	JWN,NIC1

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No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	L2472564-03 WG2010357	2.500	2.500	2.500	0.1307	0.2055	0.082	-	12/18/2024 12:02	JWN,NIC1
8	L2472564-04 WG2010357	2.500	2.500	2.500	0.1318	0.2066	0.083	-	12/18/2024 12:05	JWN,NIC1
9	L2472564-05 WG2010357	2.500	2.500	2.500	0.1339	0.2088	0.084	-	12/18/2024 12:08	JWN,NIC1
10	L2472564-06 WG2010357	2.500	2.500	2.500	0.1314	0.2062	0.082	-	12/18/2024 12:12	JWN,NIC1
11	Check STD(5ug/L)	2.500	2.500	2.500	10.9879	11.6269	4.651	93.0	12/18/2024 12:15	JWN,NIC1
12	Check Blank	2.500	2.500	2.500	0.1652	0.2418	0.097	-	12/18/2024 12:18	JWN,NIC1
13	L2472564-07 WG2010357	2.500	2.500	2.500	0.1311	0.2059	0.082	-	12/18/2024 12:22	JWN,NIC1
14	L2472564-08 WG2010357	2.500	2.500	2.500	0.1366	0.2117	0.085	-	12/18/2024 12:25	JWN,NIC1
15	L2472564-09 WG2010357	2.500	2.500	2.500	0.1370	0.2121	0.085	-	12/18/2024 12:28	JWN,NIC1
16	L2472564-10 WG2010357	2.500	2.500	2.500	0.1348	0.2098	0.084	-	12/18/2024 12:32	JWN,NIC1
17	WG2010530-1 WG2010530	2.500	2.500	2.500	0.1363	0.2114	0.085	-	12/18/2024 12:35	JWN,NIC1
18	WG2010530-2 WG2010530	2.500	2.500	2.500	2.6142	2.8180	1.127	-	12/18/2024 12:38	JWN,NIC1
19	L2473681-01 WG2010530	2.500	2.500	2.500	0.1374	0.2125	0.085	-	12/18/2024 12:42	JWN,NIC1
20	WG2010530-3 WG2010530	2.500	2.500	2.500	12.4118	13.1248	5.250	-	12/18/2024 12:45	JWN,NIC1
21	WG2010530-4 WG2010530	2.500	2.500	2.500	0.1399	0.2152	0.086	-	12/18/2024 12:48	JWN,NIC1
22	L2473685-01 WG2010530	2.500	2.500	2.500	0.1445	0.2200	0.088	-	12/18/2024 12:52	JWN,NIC1
23	Check STD(5ug/L)	2.500	2.500	2.500	11.0460	11.6880	4.675	93.5	12/18/2024 12:55	JWN,NIC1
24	Check Blank	2.500	2.500	2.500	0.1678	0.2445	0.098	-	12/18/2024 12:58	JWN,NIC1
25	XL2473926-01 WG2010530	2.500	2.500	2.500	0.1357	0.2107	0.084	-	12/18/2024 13:32	JWN,NIC1
26	Check STD(5ug/L)	2.500	2.500	2.500	10.8104	11.4402	4.576	91.5	12/18/2024 15:49	JWN,NIC1
27	Check Blank	2.500	2.500	2.500	0.0991	0.1722	0.069	-	12/18/2024 15:53	JWN,NIC1
28	L2473926-01 WG2010530	2.500	2.500	2.500	0.0655	0.1369	0.055	-	12/18/2024 15:57	DJR,NIC1
29	Check STD(5ug/L)	2.500	2.500	2.500	10.8127	11.4426	4.577	91.5	12/18/2024 16:00	DJR,NIC1
30	Check Blank	2.500	2.500	2.500	0.0983	0.1714	0.069	-	12/18/2024 16:03	DJR,NIC1

Title :
Date : 12/18/2024
Name :

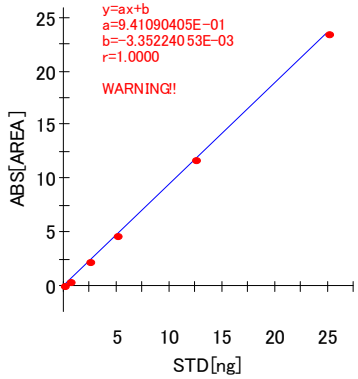
Method

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	0.0442	0.0505	-	12/18/2024 09:07	MJR,NIC3
2	0.200	2.500	2.500	2.500	0.500	0.4279	0.4582	8.4	12/18/2024 09:10	MJR,NIC3
3	1.000	2.500	2.500	2.500	2.500	2.3398	2.4898	0.4	12/18/2024 09:14	MJR,NIC3
4	2.000	2.500	2.500	2.500	5.000	4.6583	4.9535	0.9	12/18/2024 09:17	MJR,NIC3
5	5.000	2.500	2.500	2.500	12.500	11.8295	12.5736	0.6	12/18/2024 09:20	MJR,NIC3
6	10.000	2.500	2.500	2.500	25.000	23.4998	24.9744	0.1	12/18/2024 09:24	MJR,NIC3

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	XICV	2.500	2.500	2.500	6.5706	6.9855	2.794	-	12/18/2024 09:28	MJR,NIC3
2	XICB	2.500	2.500	2.500	0.0413	0.0474	0.019	-	12/18/2024 09:31	MJR,NIC3
3	ICV	2.500	2.500	2.500	6.9716	7.4116	2.965	-	12/18/2024 09:35	MJR,NIC3
4	ICB	2.500	2.500	2.500	0.0430	0.0493	0.020	-	12/18/2024 09:38	MJR,NIC3
5	wg2010387-1 wg2010387	2.500	2.500	2.500	0.0154	0.0199	0.008	-	12/18/2024 10:03	MJR,NIC3
6	wg2010387-2 wg2010387	2.500	2.500	2.500	2.2970	2.4443	0.978	-	12/18/2024 10:06	MJR,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	I2472122-06 wg2010387	2.500	2.500	2.500	0.0263	0.0315	0.013	-	12/18/2024 10:10	MJR,NIC3
8	wg2010387-3 wg2010387	2.500	2.500	2.500	11.6427	12.3751	4.950	-	12/18/2024 10:13	MJR,NIC3
9	wg2010387-4 wg2010387	2.500	2.500	2.500	0.0223	0.0273	0.011	-	12/18/2024 10:16	MJR,NIC3
10	wg2010395-1 wg2010395	2.500	2.500	2.500	0.0107	0.0149	0.006	-	12/18/2024 10:20	MJR,NIC3
11	wg2010395-2 wg2010395	2.500	2.500	2.500	2.2588	2.4038	0.962	-	12/18/2024 10:23	MJR,NIC3
12	I2473084-09 wg2010395	2.500	2.500	2.500	6.4603	6.8683	2.747	-	12/18/2024 10:26	MJR,NIC3
13	Check STD(5ug/L)	2.500	2.500	2.500	11.9108	12.6599	5.064	101.3	12/18/2024 10:30	MJR,NIC3
14	Check Blank	2.500	2.500	2.500	0.0414	0.0476	0.019	-	12/18/2024 10:33	MJR,NIC3
15	wg2010395-3 wg2010395	2.500	2.500	2.500	17.7205	18.8333	7.533	-	12/18/2024 10:36	MJR,NIC3
16	wg2010395-4 wg2010395	2.500	2.500	2.500	6.2890	6.6862	2.674	-	12/18/2024 10:40	MJR,NIC3
17	I2471236-01 wg2010395	2.500	2.500	2.500	0.1190	0.1300	0.052	-	12/18/2024 10:43	MJR,NIC3
18	I2472720-01 wg2010395	2.500	2.500	2.500	3.7838	4.0242	1.610	-	12/18/2024 10:46	MJR,NIC3
19	I2473084-08 wg2010395	2.500	2.500	2.500	5.0636	5.3841	2.154	-	12/18/2024 10:49	MJR,NIC3
20	I2473084-10 wg2010395	2.500	2.500	2.500	1.4336	1.5269	0.611	-	12/18/2024 10:53	MJR,NIC3
21	wg2010214-1 wg2010214	2.500	2.500	2.500	0.0127	0.0171	0.007	-	12/18/2024 11:06	MJR,NIC3
22	wg2010214-2 wg2010214	2.500	2.500	2.500	2.2902	2.4371	0.975	-	12/18/2024 11:10	MJR,NIC3
23	I2473032-06 wg2010214	2.500	2.500	2.500	0.0214	0.0263	0.011	-	12/18/2024 11:13	MJR,NIC3
24	wg2010214-3 wg2010214	2.500	2.500	2.500	11.0826	11.7799	4.712	-	12/18/2024 11:16	MJR,NIC3
25	Check STD(5ug/L)	2.500	2.500	2.500	11.9356	12.6863	5.075	101.5	12/18/2024 11:19	MJR,NIC3
26	Check Blank	2.500	2.500	2.500	0.0419	0.0481	0.019	-	12/18/2024 11:23	MJR,NIC3
27	wg2010214-4 wg2010214	2.500	2.500	2.500	11.4956	12.2188	4.888	-	12/18/2024 11:26	MJR,NIC3
28	I2472700-09 wg2010214	2.500	2.500	2.500	0.0222	0.0272	0.011	-	12/18/2024 11:34	MJR,NIC3
29	I2472759-16 wg2010214	2.500	2.500	2.500	0.0188	0.0235	0.009	-	12/18/2024 11:37	MJR,NIC3
30	I2473032-03 wg2010214	2.500	2.500	2.500	0.0153	0.0198	0.008	-	12/18/2024 11:40	MJR,NIC3
31	I2473032-04 wg2010214	2.500	2.500	2.500	0.0141	0.0185	0.007	-	12/18/2024 11:44	MJR,NIC3
32	I2473032-05 wg2010214	2.500	2.500	2.500	4.0632	4.3211	1.728	-	12/18/2024 11:47	MJR,NIC3
33	I2473032-07 wg2010214	2.500	2.500	2.500	0.0948	0.1043	0.042	-	12/18/2024 11:50	MJR,NIC3
34	I2473032-08 wg2010214	2.500	2.500	2.500	1.0383	1.1069	0.443	-	12/18/2024 11:54	MJR,NIC3
35	I2473032-09 wg2010214	2.500	2.500	2.500	0.1121	0.1227	0.049	-	12/18/2024 11:57	MJR,NIC3
36	I2473032-10 wg2010214	2.500	2.500	2.500	0.0275	0.0328	0.013	-	12/18/2024 12:00	MJR,NIC3
37	Check STD(5ug/L)	2.500	2.500	2.500	11.9485	12.7000	5.080	101.6	12/18/2024 12:04	MJR,NIC3
38	Check Blank	2.500	2.500	2.500	0.0409	0.0470	0.019	-	12/18/2024 12:07	MJR,NIC3

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
39	I2473032-11 wg2010214	2.500	2.500	2.500	0.3797	0.4070	0.163	-	12/18/2024 12:10	MJR,NIC3
40	I2473032-12 wg2010214	2.500	2.500	2.500	0.0281	0.0334	0.013	-	12/18/2024 12:13	MJR,NIC3
41	I2473032-13 wg2010214	2.500	2.500	2.500	3.9772	4.2297	1.692	-	12/18/2024 12:17	MJR,NIC3
42	I2473032-15 wg2010214	2.500	2.500	2.500	0.7080	0.7559	0.302	-	12/18/2024 12:20	MJR,NIC3
43	I2473032-16 wg2010214	2.500	2.500	2.500	3.0695	3.2652	1.306	-	12/18/2024 12:23	MJR,NIC3
44	I2473032-17 wg2010214	2.500	2.500	2.500	1.3138	1.3996	0.560	-	12/18/2024 12:27	MJR,NIC3
45	wg2010581-1 wg2010581	2.500	2.500	2.500	0.0185	0.0232	0.009	-	12/18/2024 12:31	MJR,NIC3
46	wg2010581-2 wg2010581	2.500	2.500	2.500	2.1687	2.3080	0.923	-	12/18/2024 12:35	MJR,NIC3
47	I2472729-01 wg2010581	2.500	2.500	2.500	0.0187	0.0234	0.009	-	12/18/2024 12:38	MJR,NIC3
48	wg2010581-3 wg2010581	2.500	2.500	2.500	10.9368	11.6250	4.650	-	12/18/2024 12:41	MJR,NIC3
49	Check STD(5ug/L)	2.500	2.500	2.500	11.9109	12.6601	5.064	101.3	12/18/2024 12:45	MJR,NIC3
50	Check Blank	2.500	2.500	2.500	0.0422	0.0484	0.019	-	12/18/2024 12:48	MJR,NIC3
51	wg2010581-4 wg2010581	2.500	2.500	2.500	0.0157	0.0202	0.008	-	12/18/2024 12:51	MJR,NIC3
52	I2472694-02 wg2010581	2.500	2.500	2.500	0.0150	0.0195	0.008	-	12/18/2024 12:54	MJR,NIC3
53	I2472694-03 wg2010581	2.500	2.500	2.500	0.0151	0.0196	0.008	-	12/18/2024 12:58	MJR,NIC3
54	I2472862-01 wg2010581	2.500	2.500	2.500	0.0143	0.0188	0.008	-	12/18/2024 13:01	MJR,NIC3
55	I2472862-02 wg2010581	2.500	2.500	2.500	0.0143	0.0188	0.008	-	12/18/2024 13:04	MJR,NIC3
56	Check STD(5ug/L)	2.500	2.500	2.500	11.9266	12.6767	5.071	101.4	12/18/2024 13:08	MJR,NIC3
57	Check Blank	2.500	2.500	2.500	0.0387	0.0447	0.018	-	12/18/2024 13:11	MJR,NIC3
58	Check STD(5ug/L)	2.500	2.500	2.500	11.5337	12.2592	4.904	98.1	12/18/2024 14:47	MJR,NIC3
59	Check Blank	2.500	2.500	2.500	0.0342	0.0399	0.016	-	12/18/2024 14:51	MJR,NIC3
60	wg2010754-1 wg2010754	2.500	2.500	2.500	0.0123	0.0166	0.007	-	12/18/2024 14:58	MJR,NIC3
61	wg2010754-2 wg2010754	2.500	2.500	2.500	2.3436	2.4939	0.998	-	12/18/2024 15:01	MJR,NIC3
62	I2473965-02 wg2010754	2.500	2.500	2.500	0.0253	0.0304	0.012	-	12/18/2024 15:04	MJR,NIC3
63	wg2010754-3 wg2010754	2.500	2.500	2.500	12.1172	12.8793	5.152	-	12/18/2024 15:08	MJR,NIC3
64	wg2010754-4 wg2010754	2.500	2.500	2.500	0.0393	0.0453	0.018	-	12/18/2024 15:11	MJR,NIC3
65	I2473965-03 wg2010754	2.500	2.500	2.500	0.0335	0.0392	0.016	-	12/18/2024 15:14	MJR,NIC3
66	Check STD(5ug/L)	2.500	2.500	2.500	11.7404	12.4789	4.992	99.8	12/18/2024 15:24	MJR,NIC3
67	Check Blank	2.500	2.500	2.500	0.0382	0.0442	0.018	-	12/18/2024 15:27	MJR,NIC3
68	wg2010539-1 wg2010539	2.500	2.500	2.500	0.0138	0.0182	0.007	-	12/18/2024 15:54	MJR,NIC3
69	wg2010539-2 wg2010539	2.500	2.500	2.500	2.2569	2.4017	0.961	-	12/18/2024 15:57	MJR,NIC3
70	I2472605-01 wg2010539	2.500	2.500	2.500	0.0265	0.0317	0.013	-	12/18/2024 16:00	MJR,NIC3

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
71	wg2010539-3 wg2010539	2.500	2.500	2.500	11.2980	12.0088	4.804	-	12/18/2024 16:03	MJR,NIC3
72	wg2010539-4 wg2010539	2.500	2.500	2.500	0.0243	0.0294	0.012	-	12/18/2024 16:07	MJR,NIC3
73	I2472605-02 wg2010539	2.500	2.500	2.500	0.0445	0.0508	0.020	-	12/18/2024 16:10	MJR,NIC3
74	I2472605-03 wg2010539	2.500	2.500	2.500	0.0350	0.0408	0.016	-	12/18/2024 16:13	MJR,NIC3
75	I2472605-04 wg2010539	2.500	2.500	2.500	0.0227	0.0277	0.011	-	12/18/2024 16:17	MJR,NIC3
76	Check STD(5ug/L)	2.500	2.500	2.500	11.6205	12.3515	4.941	98.8	12/18/2024 16:42	MJR,NIC3
77	Check Blank	2.500	2.500	2.500	0.0374	0.0433	0.017	-	12/18/2024 16:45	MJR,NIC3
78	Check STD(5ug/L)	2.500	2.500	2.500	11.4843	12.2067	4.883	97.7	12/18/2024 18:19	DJR,NIC3
79	Check Blank	2.500	2.500	2.500	0.0341	0.0398	0.016	-	12/18/2024 18:22	DJR,NIC3
80	wg2010404-1 wg2010404	2.500	2.500	2.500	0.0058	0.0097	0.004	-	12/18/2024 19:13	DJR,NIC3
81	wg2010404-2 wg2010404	2.500	2.500	2.500	2.2964	2.4437	0.977	-	12/18/2024 19:16	DJR,NIC3
82	L2473162-06 wg2010404	2.500	2.500	2.500	2.0696	2.2027	0.881	-	12/18/2024 19:19	DJR,NIC3
83	wg2010404-3 wg2010404	2.500	2.500	2.500	13.4561	14.3020	5.721	-	12/18/2024 19:23	DJR,NIC3
84	wg2010404-4 wg2010404	2.500	2.500	2.500	13.4877	14.3356	5.734	-	12/18/2024 19:26	DJR,NIC3
85	L2473162-08 wg2010404	2.500	2.500	2.500	0.0069	0.0109	0.004	-	12/18/2024 19:29	DJR,NIC3
86	wg2010404-5 wg2010404	2.500	2.500	2.500	11.6295	12.3610	4.944	-	12/18/2024 19:32	DJR,NIC3
87	wg2010404-6 wg2010404	2.500	2.500	2.500	0.0074	0.0114	0.005	-	12/18/2024 19:36	DJR,NIC3
88	Check STD(5ug/L)	2.500	2.500	2.500	11.8103	12.5532	5.021	100.4	12/18/2024 19:39	DJR,NIC3
89	Check Blank	2.500	2.500	2.500	0.0367	0.0426	0.017	-	12/18/2024 19:42	DJR,NIC3
90	L2473162-01 wg2010404	2.500	2.500	2.500	0.0063	0.0103	0.004	-	12/18/2024 20:21	DJR,NIC3
91	L2473162-02 wg2010404	2.500	2.500	2.500	0.0060	0.0099	0.004	-	12/18/2024 20:24	DJR,NIC3
92	L2473162-03 wg2010404	2.500	2.500	2.500	0.0085	0.0126	0.005	-	12/18/2024 20:28	DJR,NIC3
93	L2473162-04 wg2010404	2.500	2.500	2.500	0.0060	0.0099	0.004	-	12/18/2024 20:31	DJR,NIC3
94	L2473162-05 wg2010404	2.500	2.500	2.500	0.0072	0.0112	0.004	-	12/18/2024 20:34	DJR,NIC3
95	L2473162-07 wg2010404	2.500	2.500	2.500	1.7429	1.8556	0.742	-	12/18/2024 20:38	DJR,NIC3
96	L2473162-09 wg2010404	2.500	2.500	2.500	0.0080	0.0121	0.005	-	12/18/2024 20:41	DJR,NIC3
97	L2473162-10 wg2010404	2.500	2.500	2.500	0.0054	0.0093	0.004	-	12/18/2024 20:44	DJR,NIC3
98	L2473538-01 wg2010404	2.500	2.500	2.500	0.0047	0.0086	0.003	-	12/18/2024 20:48	DJR,NIC3
99	L2473538-02 wg2010404	2.500	2.500	2.500	0.0067	0.0107	0.004	-	12/18/2024 20:51	DJR,NIC3
100	Check STD(5ug/L)	2.500	2.500	2.500	10.9931	11.6848	4.674	93.5	12/18/2024 20:54	DJR,NIC3
101	Check Blank	2.500	2.500	2.500	0.0394	0.0454	0.018	-	12/18/2024 20:58	DJR,NIC3
102	L2473538-03 wg2010404	2.500	2.500	2.500	0.0065	0.0105	0.004	-	12/18/2024 21:01	DJR,NIC3

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
103	L2473538-04 wg2010404	2.500	2.500	2.500	0.0082	0.0123	0.005	-	12/18/2024 21:04	DJR,NIC3
104	L2473538-05 wg2010404	2.500	2.500	2.500	0.0052	0.0091	0.004	-	12/18/2024 21:07	DJR,NIC3
105	Check STD(5ug/L)	2.500	2.500	2.500	11.3266	12.0392	4.816	96.3	12/18/2024 21:48	DJR,NIC3
106	Check Blank	2.500	2.500	2.500	0.0348	0.0405	0.016	-	12/18/2024 21:51	DJR,NIC3
107	L2473194-01 WG2009443	2.500	2.500	2.500	0.0609	0.0683	0.027	-	12/18/2024 23:20	DJR,NIC3
108	L2473194-02 WG2009443	2.500	2.500	2.500	0.0348	0.0405	0.016	-	12/18/2024 23:24	DJR,NIC3
109	L2473194-03 WG2009443	2.500	2.500	2.500	0.0387	0.0447	0.018	-	12/18/2024 23:27	DJR,NIC3
110	L2473194-04 WG2009443	2.500	2.500	2.500	0.0403	0.0464	0.019	-	12/18/2024 23:30	DJR,NIC3
111	L2473194-05 WG2009443	2.500	2.500	2.500	0.0248	0.0299	0.012	-	12/18/2024 23:33	DJR,NIC3
112	Check STD(5ug/L)	2.500	2.500	2.500	11.4958	12.2190	4.888	97.8	12/18/2024 23:37	DJR,NIC3
113	Check Blank	2.500	2.500	2.500	0.0359	0.0417	0.017	-	12/18/2024 23:40	DJR,NIC3
114	L2473194-06 WG2009443	2.500	2.500	2.500	0.0241	0.0292	0.012	-	12/18/2024 23:43	DJR,NIC3
115	Check Std(5ug/L)	2.500	2.500	2.500	11.1192	11.8188	4.728	-	12/18/2024 23:47	DJR,NIC3
116	Check Blank	2.500	2.500	2.500	0.0365	0.0423	0.017	-	12/18/2024 23:50	DJR,NIC3
117	Check STD(5ug/L)	2.500	2.500	2.500	11.0585	11.7543	4.702	94.0	12/18/2024 23:53	DJR,NIC3
118	Check Blank	2.500	2.500	2.500	0.0355	0.0413	0.017	-	12/18/2024 23:57	DJR,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

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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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▪ 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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ERA
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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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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.

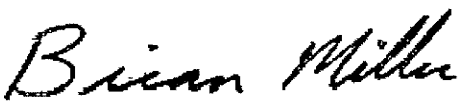
8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

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
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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: MGM 12/16
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	WG2010180-1 WG2010180	
4	10	WG2010180-2 WG2010180	
5	11	L2472320-01 WG2010180	
6	12	WG2010180-3 WG2010180	
7	13	WG2010180-4 WG2010180	
8	14	L2470878-01 WG2010180	
9	15	L2470878-02 WG2010180	
10	16	L2470878-03 WG2010180	
11	17	L2470878-04 WG2010180	
12	18	L2470878-06 WG2010180	
13	19	Check STD(5ug/L)	
14	20	Check Blank	
15	21	XCLR SOL	
16	22	WG2010171-1 WG2010171	
17	23	WG2010171-2 WG2010171	
18	24	L2473084-08 WG2010171	
19	25	WG2010171-3 WG2010171	
20	26	WG2010171-4 WG2010171	
21	27	L2473084-09 WG2010171	
22	28	L2473084-10 WG2010171	
23	31	Check STD(5ug/L)	
24	32	Check Blank	
25	33	WG2010206-1 WG2010206	
26	34	WG2010206-2 WG2010206	
27	35	L2472497-02 WG2010206	
28	36	WG2010206-3 WG2010206	
29	37	WG2010206-4 WG2010206	
30	38	L2472497-01 WG2010206	
31	39	L2472497-03 WG2010206	
32	40	L2472497-04 WG2010206	
33	41	L2472497-05 WG2010206	
34	42	L2472497-06 WG2010206	
35	43	Check STD(5ug/L)	
36	44	Check Blank	
37	45	L2472497-07 WG2010206	

38	46	L2472497-08 WG2010206
39	47	L2472497-09 WG2010206
40	48	L2472497-10 WG2010206
41	49	L2472497-11 WG2010206
42	50	L2472497-12 WG2010206
43	51	L2472497-13 WG2010206
44	52	L2472497-14 WG2010206
45	55	Check STD(5ug/L)
46	56	Check Blank
47	57	L2472497-15 WG2010206
48	58	L2472497-16 WG2010206
49	59	L2472497-17 WG2010206
50	60	L2472497-18 WG2010206
51	61	L2472497-19 WG2010206
52	62	L2472497-20 WG2010206
53	65	Check STD(5ug/L)
54	66	Check Blank
55	67	Check STD(5ug/L)
56	68	Check Blank
57	69	Check STD(5ug/L)
58	70	Check Blank
59	71	WG2010339-1 WG2010339
60	72	xWG2010339-2 WG2010339
61	73	l2472730-01 WG2010339
62	74	WG2010339-3 WG2010339
63	75	WG2010339-4 WG2010339
64	76	l2472598-06 WG2010339
65	77	l2472617-01 WG2010339
66	78	l2472712-01 WG2010339
67	79	l2472721-01 WG2010339
68	80	l2472725-01 WG2010339
69	1	Check STD(5ug/L)
70	2	Check Blank
71	3	WG2010174-1 WG2010174
72	4	WG2010174-2 WG2010174
73	5	l2472751-07 WG2010174
74	6	WG2010174-3 WG2010174
75	7	WG2010174-4 WG2010174
76	8	l2472742-02 WG2010174
77	9	l2472742-03 WG2010174
78	10	L2472742-04 WG2010174
79	11	Check STD(5ug/L)
80	12	Check Blank
81	13	L2472742-05 WG2010174

82	14	L2472742-06 WG2010174
83	15	L2472742-07 WG2010174
84	16	L2472742-08 WG2010174
85	17	L2472742-09 WG2010174
86	18	L2472742-10 WG2010174
87	19	L2472742-11 WG2010174
88	20	L2472742-12 WG2010174
89	21	L2472751-02 WG2010174
90	22	L2472751-03 WG2010174
91	23	Check STD(5ug/L)
92	24	Check Blank
93	25	L2472751-04 WG2010174
94	26	L2472751-05 WG2010174
95	27	L2472751-06 WG2010174
96	28	L2472751-08 WG2010174
97	29	L2472751-09 WG2010174
98	30	WG2010339-2 WG2010339
99	31	WG2010332-1 WG2010332
100	32	WG2010332-2 WG2010332
101	33	L2472122-06 WG2010332
102	34	WG2010332-3 WG2010332
103	35	Check STD(5ug/L)
104	36	Check Blank
105	37	WG2010332-4 WG2010332
106	38	L2468047-01 WG2010332
107	39	L2472497-21 WG2010332
108	40	L2472497-22 WG2010332
109	41	L2472497-24 WG2010332
110	42	L2472527-01 WG2010332
111	43	L2472527-02 WG2010332
112	44	L2472527-03 WG2010332
113	45	xWG2010332-3 WG2010332
114	46	PS2122-06
115	47	Check STD(5ug/L)
116	48	Check Blank
117	49	WG2010364-1 WG2010364
118	50	WG2010364-2 WG2010364
119	51	l2473162-06 WG2010364
120	52	WG2010364-3 WG2010364
121	53	WG2010364-4 WG2010364
122	54	l2473162-07 WG2010364
123	55	WG2010364-5 WG2010364
124	56	WG2010364-6 WG2010364
125	57	l2472719-01 WG2010364

126	58	l2473045-07 WG2010364
127	59	Check STD(5ug/L)
128	60	Check Blank
129	61	l2473162-01 WG2010364
130	62	l2473162-02 WG2010364
131	63	l2473162-03 WG2010364
132	64	l2473162-04 WG2010364
133	65	l2473162-05 WG2010364
134	66	l2473162-08 WG2010364
135	67	l2473162-09 WG2010364
136	68	l2473162-10 WG2010364
137	69	Check STD(5ug/L)
138	70	Check Blank
1	11	WG2010357-1 WG2010357
2	12	WG2010357-2 WG2010357
3	13	L2472564-02 WG2010357
4	14	WG2010357-3 WG2010357
5	15	WG2010357-4 WG2010357
6	16	L2472564-01 WG2010357
7	17	L2472564-03 WG2010357
8	18	L2472564-04 WG2010357
9	19	L2472564-05 WG2010357
10	20	L2472564-06 WG2010357
11	21	Check STD(5ug/L)
12	22	Check Blank
13	23	L2472564-07 WG2010357
14	24	L2472564-08 WG2010357
15	25	L2472564-09 WG2010357
16	26	L2472564-10 WG2010357
17	27	WG2010530-1 WG2010530
18	28	WG2010530-2 WG2010530
19	29	L2473681-01 WG2010530
20	30	WG2010530-3 WG2010530
21	31	WG2010530-4 WG2010530
22	32	L2473685-01 WG2010530
23	33	Check STD(5ug/L)
24	34	Check Blank
25	35	XL2473926-01 WG2010530
26	45	Check STD(5ug/L)
27	46	Check Blank
28	47	L2473926-01 WG2010530
29	48	Check STD(5ug/L)
30	49	Check Blank

No.	Sample No.	NAME	CURVE: NO WG
1	1	STD	
2	2	STD	
3	3	STD	
4	4	STD	
5	5	STD	
6	6	STD	
1	7	XICV	
2	8	XICB	
3	9	ICV	
4	10	ICB	
5	11	wg2010387-1 wg2010387	
6	12	wg2010387-2 wg2010387	
7	13	l2472122-06 wg2010387	
8	14	wg2010387-3 wg2010387	
9	15	wg2010387-4 wg2010387	
10	16	wg2010395-1 wg2010395	
11	17	wg2010395-2 wg2010395	
12	18	l2473084-09 wg2010395	
13	19	Check STD(5ug/L)	
14	20	Check Blank	
15	21	wg2010395-3 wg2010395	
16	22	wg2010395-4 wg2010395	
17	23	l2471236-01 wg2010395	
18	24	l2472720-01 wg2010395	
19	25	l2473084-08 wg2010395	
20	26	l2473084-10 wg2010395	
21	27	wg2010214-1 wg2010214	
22	28	wg2010214-2 wg2010214	
23	29	l2473032-06 wg2010214	
24	30	wg2010214-3 wg2010214	
25	31	Check STD(5ug/L)	
26	32	Check Blank	
27	33	wg2010214-4 wg2010214	
28	34	l2472700-09 wg2010214	
29	35	l2472759-16 wg2010214	
30	36	l2473032-03 wg2010214	
31	37	l2473032-04 wg2010214	
32	38	l2473032-05 wg2010214	
33	39	l2473032-07 wg2010214	
34	40	l2473032-08 wg2010214	
35	41	l2473032-09 wg2010214	
36	42	l2473032-10 wg2010214	
37	43	Check STD(5ug/L)	

38	44	Check Blank
39	45	l2473032-11 wg2010214
40	46	l2473032-12 wg2010214
41	47	l2473032-13 wg2010214
42	48	l2473032-15 wg2010214
43	49	l2473032-16 wg2010214
44	50	l2473032-17 wg2010214
45	51	wg2010581-1 wg2010581
46	52	wg2010581-2 wg2010581
47	53	l2472729-01 wg2010581
48	54	wg2010581-3 wg2010581
49	55	Check STD(5ug/L)
50	56	Check Blank
51	57	wg2010581-4 wg2010581
52	58	l2472694-02 wg2010581
53	59	l2472694-03 wg2010581
54	60	l2472862-01 wg2010581
55	61	l2472862-02 wg2010581
56	67	Check STD(5ug/L)
57	68	Check Blank
58	69	Check STD(5ug/L)
59	70	Check Blank
60	71	wg2010754-1 wg2010754
61	72	wg2010754-2 wg2010754
62	73	l2473965-02 wg2010754
63	74	wg2010754-3 wg2010754
64	75	wg2010754-4 wg2010754
65	76	l2473965-03 wg2010754
66	79	Check STD(5ug/L)
67	80	Check Blank
68	1	wg2010539-1 wg2010539
69	2	wg2010539-2 wg2010539
70	3	l2472605-01 wg2010539
71	4	wg2010539-3 wg2010539
72	5	wg2010539-4 wg2010539
73	6	l2472605-02 wg2010539
74	7	l2472605-03 wg2010539
75	8	l2472605-04 wg2010539
76	11	Check STD(5ug/L)
77	12	Check Blank
78	13	Check STD(5ug/L)
79	14	Check Blank
80	15	wg2010404-1 wg2010404
81	16	wg2010404-2 wg2010404

82	17	L2473162-06 wg2010404
83	18	wg2010404-3 wg2010404
84	19	wg2010404-4 wg2010404
85	20	L2473162-08 wg2010404
86	21	wg2010404-5 wg2010404
87	22	wg2010404-6 wg2010404
88	23	Check STD(5ug/L)
89	24	Check Blank
90	25	L2473162-01 wg2010404
91	26	L2473162-02 wg2010404
92	27	L2473162-03 wg2010404
93	28	L2473162-04 wg2010404
94	29	L2473162-05 wg2010404
95	30	L2473162-07 wg2010404
96	31	L2473162-09 wg2010404
97	32	L2473162-10 wg2010404
98	33	L2473538-01 wg2010404
99	34	L2473538-02 wg2010404
100	35	Check STD(5ug/L)
101	36	Check Blank
102	37	L2473538-03 wg2010404
103	38	L2473538-04 wg2010404
104	39	L2473538-05 wg2010404
105	40	Check STD(5ug/L)
106	41	Check Blank
107	42	L2473194-01 WG2009443
108	43	L2473194-02 WG2009443
109	44	L2473194-03 WG2009443
110	45	L2473194-04 WG2009443
111	46	L2473194-05 WG2009443
112	47	Check STD(5ug/L)
113	48	Check Blank
114	49	L2473194-06 WG2009443
115	50	Check Std(5ug/L)
116	51	Check Blank
117	52	Check STD(5ug/L)
118	53	Check Blank

METALS ELN REPORT

Workgroup: WG2010364

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	24001335	METALS	METSPIKE	HG24490206 00AJT	METSPIKE	HG24490206320, 344 00AJT	

Additional Reagent/Std	K2O8S2	PS2450130030CLH
	KMnO4	PP2451161200ADG
	NaCl-NH2OH.HCl	HH24501315MJR
		ICV2449051040AJT

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
L2472719-01 SAMP	12/17/24 21:22	Christine Hamor	25		12/17/24 21:22	8	95.4	12/17/24 23:22	25	
L2473045-07 SAMP	12/17/24 21:22	Christine Hamor	25		12/17/24 21:22	8	95.4	12/17/24 23:22	25	
L2473162-01 SAMP	12/17/24 21:22	Christine Hamor	25		12/17/24 21:22	8	95.4	12/17/24 23:22	25	
L2473162-02 SAMP	12/17/24 21:22	Christine Hamor	25		12/17/24 21:22	8	95.4	12/17/24 23:22	25	
L2473162-03 SAMP	12/17/24 21:22	Christine Hamor	25		12/17/24 21:22	8	95.4	12/17/24 23:22	25	
L2473162-04 SAMP	12/17/24 21:22	Christine Hamor	25		12/17/24 21:22	8	95.4	12/17/24 23:22	25	
L2473162-05 SAMP	12/17/24 21:22	Christine Hamor	25		12/17/24 21:22	8	95.4	12/17/24 23:22	25	
L2473162-06 SAMP	12/17/24 21:22	Christine Hamor	25		12/17/24 21:22	8	95.4	12/17/24 23:22	25	

METALS ELN REPORT

Workgroup: WG2010364

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
L2473162-07 SAMP	12/17/24 21:22	Christine Hamor	25		12/17/24 21:22	8	95.4	12/17/24 23:22	25	
L2473162-08 SAMP	12/17/24 21:22	Christine Hamor	25		12/17/24 21:22	8	95.4	12/17/24 23:22	25	
L2473162-09 SAMP	12/17/24 21:22	Christine Hamor	25		12/17/24 21:22	8	95.4	12/17/24 23:22	25	
L2473162-10 SAMP	12/17/24 21:22	Christine Hamor	25		12/17/24 21:22	8	95.4	12/17/24 23:22	25	
WG2010364-1 BLANK	12/17/24 21:22	Christine Hamor	25		12/17/24 21:22	8	95.4	12/17/24 23:22	25	ELN check: MGM
WG2010364-2 LCS	12/17/24 21:22	Christine Hamor	25	.25	12/17/24 21:22	8	95.4	12/17/24 23:22	25	
WG2010364-3 MS	12/17/24 21:22	Christine Hamor	25	1.25	12/17/24 21:22	8	95.4	12/17/24 23:22	25	
WG2010364-4 MSD	12/17/24 21:22	Christine Hamor	25	1.25	12/17/24 21:22	8	95.4	12/17/24 23:22	25	
WG2010364-5 MS	12/17/24 21:22	Christine Hamor	25	1.25	12/17/24 21:22	8	95.4	12/17/24 23:22	25	
WG2010364-6 DUP	12/17/24 21:22	Christine Hamor	25		12/17/24 21:22	8	95.4	12/17/24 23:22	25	

METALS ELN REPORT

Workgroup: WG2010364

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: WG2010404

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	24001335	METALS	METSPIKE	HG24490206 00AJT	METSPIKE	HG24490206320, 344 00AJT	

Additional Reagent/Std	K2O8S2	PS2450130030CLH
	KMnO4	PP2451161200ADG
	NaCl-NH2OH.HCl	HH24501315MJR
		ICV2449051040AJT

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
L2473162-01 SAMP	12/17/24 21:22	Christine Hamor	NA	25		12/17/24 21:22	5	94.0	12/17/24 23:22	25	F
L2473162-02 SAMP	12/17/24 21:22	Christine Hamor	NA	25		12/17/24 21:22	5	94.0	12/17/24 23:22	25	F
L2473162-03 SAMP	12/17/24 21:22	Christine Hamor	NA	25		12/17/24 21:22	5	94.0	12/17/24 23:22	25	F
L2473162-04 SAMP	12/17/24 21:22	Christine Hamor	NA	25		12/17/24 21:22	5	94.0	12/17/24 23:22	25	F
L2473162-05 SAMP	12/17/24 21:22	Christine Hamor	NA	25		12/17/24 21:22	5	94.0	12/17/24 23:22	25	F
L2473162-06 SAMP	12/17/24 21:22	Christine Hamor	NA	25		12/17/24 21:22	5	94.0	12/17/24 23:22	25	F
L2473162-07 SAMP	12/17/24 21:22	Christine Hamor	NA	25		12/17/24 21:22	5	94.0	12/17/24 23:22	25	F
L2473162-08 SAMP	12/17/24 21:22	Christine Hamor	NA	25		12/17/24 21:22	5	94.0	12/17/24 23:22	25	F

METALS ELN REPORT

Workgroup: WG2010404

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
L2473162-09 SAMP	12/17/24 21:22	Christine Hamor	NA	25		12/17/24 21:22	5	94.0	12/17/24 23:22	25	F
L2473162-10 SAMP	12/17/24 21:22	Christine Hamor	NA	25		12/17/24 21:22	5	94.0	12/17/24 23:22	25	F
L2473538-01 SAMP	12/17/24 21:22	Christine Hamor	NA	25		12/17/24 21:22	5	94.0	12/17/24 23:22	25	H
L2473538-02 SAMP	12/17/24 21:22	Christine Hamor	NA	25		12/17/24 21:22	5	94.0	12/17/24 23:22	25	H
L2473538-03 SAMP	12/17/24 21:22	Christine Hamor	NA	25		12/17/24 21:22	5	94.0	12/17/24 23:22	25	H
L2473538-04 SAMP	12/17/24 21:22	Christine Hamor	NA	25		12/17/24 21:22	5	94.0	12/17/24 23:22	25	H
L2473538-05 SAMP	12/17/24 21:22	Christine Hamor	NA	25		12/17/24 21:22	5	94.0	12/17/24 23:22	25	H
WG2010404-1 BLANK	12/17/24 21:22	Christine Hamor	NA	25		12/17/24 21:22	5	94.0	12/17/24 23:22	25	ELN check: MGM
WG2010404-2 LCS	12/17/24 21:22	Christine Hamor	NA	25	0.25	12/17/24 21:22	5	94.0	12/17/24 23:22	25	
WG2010404-3 MS	12/17/24 21:22	Christine Hamor	NA	25	1.25	12/17/24 21:22	5	94.0	12/17/24 23:22	25	
WG2010404-4 MSD	12/17/24 21:22	Christine Hamor	NA	25	1.25	12/17/24 21:22	5	94.0	12/17/24 23:22	25	
WG2010404-5 MS	12/17/24 21:22	Christine Hamor	NA	25	1.25	12/17/24 21:22	5	94.0	12/17/24 23:22	25	

METALS ELN REPORT

Workgroup: WG2010404

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
WG2010404-6 DUP	12/17/24 21:22	Christine Hamor	NA	25	12/17/24 21:22	5	94.0	12/17/24 23:22	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: 19-DEC-24 11:57 AM

Wet Chemistry

Total Nitrogen Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-01	**Date Collected**	:	12/12/24 08:25
Client ID	:	MW-11S	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 12:35
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	107,-	**Analyst**	:	MRM
Lab File ID	:	WG2011378.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	0.48	0.30	0.30	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-02	**Date Collected**	:	12/12/24 08:42
Client ID	:	MW-11D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 12:35
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	107,-	**Analyst**	:	MRM
Lab File ID	:	WG2011378.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	0.31	0.30	0.30	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-03	**Date Collected**	:	12/12/24 09:50
Client ID	:	MW-1SR	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 12:35
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	107,-	**Analyst**	:	MRM
Lab File ID	:	WG2011378.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

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

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-04	**Date Collected**	:	12/12/24 10:10
Client ID	:	MW-1DR2	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 12:35
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	107,-	**Analyst**	:	MRM
Lab File ID	:	WG2011378.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

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

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-05	**Date Collected**	:	12/12/24 11:40
Client ID	:	MP-1	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 12:35
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	107,-	**Analyst**	:	MRM
Lab File ID	:	WG2011378.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

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

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-06	**Date Collected**	:	12/12/24 12:05
Client ID	:	MP-1D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 12:35
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	107,-	**Analyst**	:	MRM
Lab File ID	:	WG2011378.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	0.68	0.30	0.30	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-07	**Date Collected**	:	12/12/24 12:00
Client ID	:	DUP_121224	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 12:35
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	107,-	**Analyst**	:	MRM
Lab File ID	:	WG2011378.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	0.66	0.30	0.30	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-08	**Date Collected**	:	12/12/24 14:00
Client ID	:	MW-13S	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 12:35
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	107,-	**Analyst**	:	MRM
Lab File ID	:	WG2011378.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	5.1	0.30	0.30	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-09	**Date Collected**	:	12/12/24 14:05
Client ID	:	MW-13D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 12:35
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	107,-	**Analyst**	:	MRM
Lab File ID	:	WG2011378.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	2.4	0.30	0.30	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-10	**Date Collected**	:	12/12/24 13:30
Client ID	:	EB_121224	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 12:35
Sample Matrix	:	Equipment Blank	**Dilution Factor**	:	1
Analytical Method	:	107,-	**Analyst**	:	MRM
Lab File ID	:	WG2011378.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: **#############**
Technician: MRM
Work group: WG2011378
RL: **0.3 mg/L**

	Sample Number	TKN (mg/L)	NO3/NO2 (mg/L)	RL Multiplier	Result (mg/L)
SAMP	L2473162-01	0.222	0.48	1.0	0.48
SAMP	L2473162-02	0.121	0.31	1.0	0.31
SAMP	L2473162-03	0.0766	1.5	1.0	1.5
SAMP	L2473162-04	0	1.5	1.0	1.5
SAMP	L2473162-05	0.13	1	1.0	1
SAMP	L2473162-06	0.124	0.68	1.0	0.68
SAMP	L2473162-07	0.157	0.66	1.0	0.66
SAMP	L2473162-08	0.0773	5.1	1.0	5.1
SAMP	L2473162-09	0.0751	2.4	1.0	2.4
SAMP	L2473162-10	0.144	0	1.0	0.144
SAMP	L2473760-01	17.7	0.74	1.0	18.44
SAMP	L2473760-02	6.42	1.6	1.0	8.02

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**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-01	**Date Collected**	:	12/12/24 08:25
Client ID	:	MW-11S	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 18:04
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	4,351.1	**Analyst**	:	AT
Lab File ID	:	NH320241218-I	**Instrument ID**	:	LACHAT
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.222	0.300	0.066	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-02	**Date Collected**	:	12/12/24 08:42
Client ID	:	MW-11D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 18:05
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	4,351.1	**Analyst**	:	AT
Lab File ID	:	NH320241218-I	**Instrument ID**	:	LACHAT
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.121	0.300	0.066	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-03	**Date Collected**	:	12/12/24 09:50
Client ID	:	MW-1SR	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 18:09
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	4,351.1	**Analyst**	:	AT
Lab File ID	:	NH320241218-I	**Instrument ID**	:	LACHAT
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.076	0.300	0.066	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-04	**Date Collected**	: 12/12/24 10:10
Client ID	: MW-1DR2	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 18:10
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: AT
Lab File ID	: NH320241218-I	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/17/24

		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**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-05	**Date Collected**	:	12/12/24 11:40
Client ID	:	MP-1	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 18:11
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	4,351.1	**Analyst**	:	AT
Lab File ID	:	NH320241218-I	**Instrument ID**	:	LACHAT
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.130	0.300	0.066	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-06	**Date Collected**	:	12/12/24 12:05
Client ID	:	MP-1D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 18:12
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	4,351.1	**Analyst**	:	AT
Lab File ID	:	NH320241218-I	**Instrument ID**	:	LACHAT
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.124	0.300	0.066	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-07	**Date Collected**	:	12/12/24 12:00
Client ID	:	DUP_121224	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 18:15
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	4,351.1	**Analyst**	:	AT
Lab File ID	:	NH320241218-I	**Instrument ID**	:	LACHAT
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.157	0.300	0.066	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-08	**Date Collected**	:	12/12/24 14:00
Client ID	:	MW-13S	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 18:16
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	4,351.1	**Analyst**	:	AT
Lab File ID	:	NH320241218-I	**Instrument ID**	:	LACHAT
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.077	0.300	0.066	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-09	**Date Collected**	:	12/12/24 14:05
Client ID	:	MW-13D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 18:17
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	4,351.1	**Analyst**	:	AT
Lab File ID	:	NH320241218-I	**Instrument ID**	:	LACHAT
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.075	0.300	0.066	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-10	**Date Collected**	:	12/12/24 13:30
Client ID	:	EB_121224	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 18:18
Sample Matrix	:	Equipment Blank	**Dilution Factor**	:	1
Analytical Method	:	4,351.1	**Analyst**	:	AT
Lab File ID	:	NH320241218-I	**Instrument ID**	:	LACHAT
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.144	0.300	0.066	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010169-1	**Date Collected**	: NA
Client ID	: WG2010169-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/18/24 17:57
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: AT
Lab File ID	: NH320241218-I	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.099	0.300	0.022	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010169-3	**Date Collected**	: 12/12/24 12:05
Client ID	: MP-1DDUP	**Date Received**	: 12/12/24
Sample Location	:	**Date Analyzed**	: 12/18/24 18:14
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: AT
Lab File ID	: NH320241218-I	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.426	0.300	0.066	

Sample Raw Data

Author: A1WETCHEMINSTRUMENT

Date : 12/18/2024

Original Run Filename: OM_12-18-2024_07-53-33AM.OMN Created: 12/18/2024 7:53:33 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-18-2024_07-53-33AM.OMN Last Modified: 12/18/2024 8:31:40 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

	Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	TRAY A
	STD 1	1	S1	10.00000				
	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	0.38911				97%
		Known Conc:		100.00000				
		Calibration:		Table/Fig. : 1				
	CCV 4.0000	1	S3	4.01054				100%
		Known Conc:		100.00000				
	CCB	1	S10	0.02070				
		Known Conc:		100.00000				
	HI ICV 8.0	1	1	7.80533				98%
	LO ICV 1.0	1	2	0.96586				96%
	ICB	1	3	0.01628				
	WG2009799-1	1	4	0.03033		1.50		
	WG2009799-2	1	5	19.79902		7.50		99%
	LCS LOW	1	6	1.92621		1.50		96%
	L2471170-01	1	7	0.24530		3.00		
	L2472589-05	1	8	0.09760		1.50		
	WG2009799-4	1	9	4.09859		1.50		100%
	WG2009799-3	1	10	0.21602		1.50		RPD=75%
	CCV 0.4000	1	S6	0.39945				99%
		Known Conc:		100.00000				
	CCV 4.0000	1	S3	3.96593				99%
		Known Conc:		100.00000				
	CCB	1	S10	0.02574				
		Known Conc:		100.00000				
	L2472589-06	1	11	0.04118		1.50		
	L2472609-01	1	12	8.06154		3.00		
	L2472609-02	1	13	8.34337		1.50		
	L2472610-01	1	14	0.31708		1.50		
	L2472615-01	1	15	12.54798		1.50		
x	L2472617-01	1	16	248.37047		15.00		
x	L2472626-01	1	17	109.08509		7.50		
x	L2472643-04	1	18	2.79492		1.50		
	L2472692-01	1	19	7.48991		15.00		
	L2472705-02	1	20	3.04032		1.50		
x	CCV 0.4000	1	S6	0.45848				114% Rerun
		Known Conc:		100.00000				

Author: A1WETCHEMINSTRUMENT

Date : 12/18/2024

Channel 2 (Ammonia High) - Current View

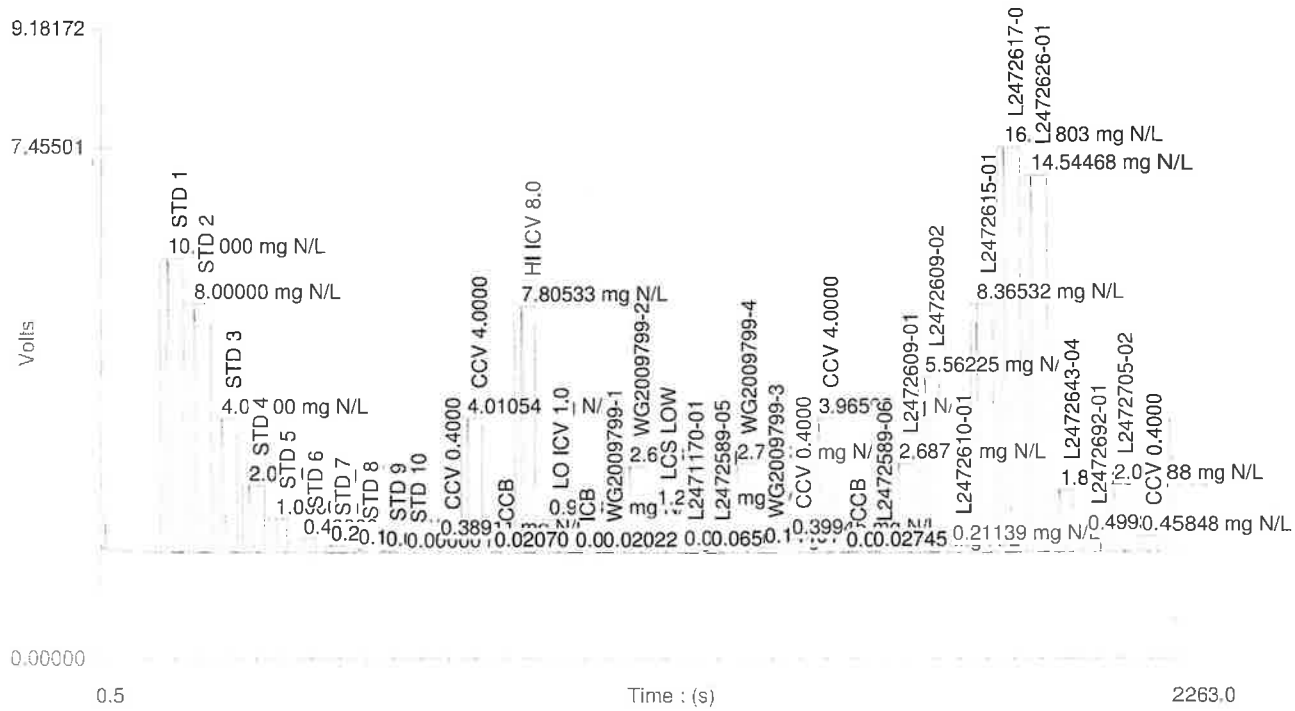
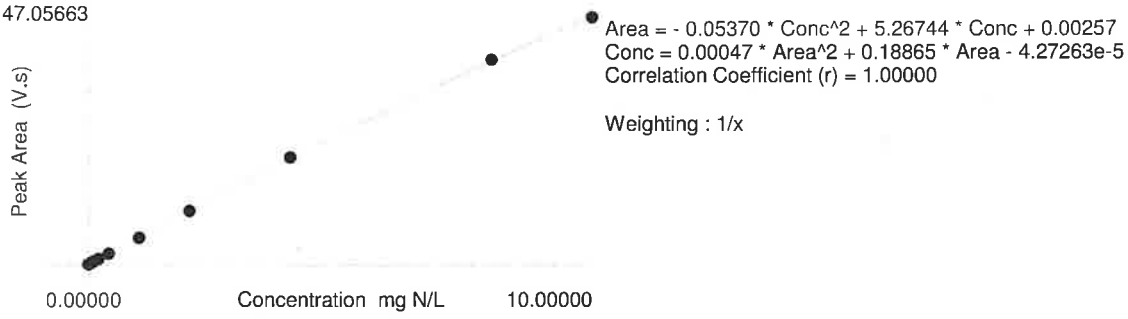


Table : 1 (Ammonia)

	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	47.05663	4.28495	0.0	0.5	9.92651	12/18/2024	7:55:22 AM
2	8.00000	1	38.97268	3.62423	0.0	-0.7	8.07190	12/18/2024	7:56:19 AM
3	4.00000	1	20.40892	1.95023	0.0	-1.0	4.04746	12/18/2024	7:57:16 AM
4	2.00000	1	10.17205	0.97750	0.0	1.5	1.96793	12/18/2024	7:58:13 AM
5	1.00000	1	5.09730	0.49020	0.0	2.3	0.97387	12/18/2024	7:59:10 AM
6	0.40000	1	2.10053	0.20031	0.0	0.0	0.39831	12/18/2024	8:00:09 AM
7	0.20000	1	1.07888	0.09943	0.0	-2.4	0.20404	12/18/2024	8:01:07 AM
8	0.10000	1	0.54186	0.05117	0.0	-2.5	0.10232	12/18/2024	8:02:05 AM
9	0.05000	1	0.28565	0.02616	0.0	-7.5	0.05388	12/18/2024	8:03:02 AM
10	0.00000	1	-0.02313	-0.00114			-0.00441	12/18/2024	8:03:59 AM

Figure : 1 (Ammonia)



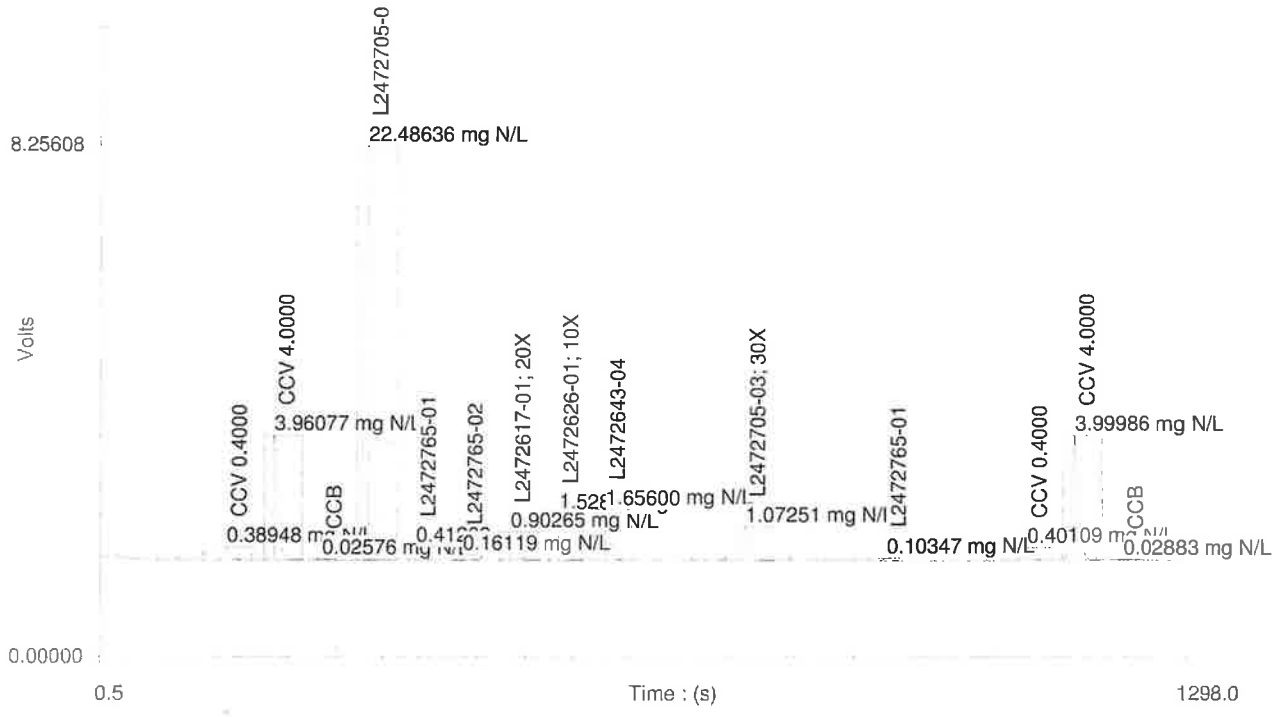
Author: A1WETCHEMINSTRUMENT

Date : 12/18/2024

Original Run Filename: OM_12-18-2024_08-34-34AM.OMN Created: 12/18/2024 8:34:34 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-18-2024_08-34-34AM.OMN Last Modified: 12/18/2024 8:56:25 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

	Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	Tray A1
	CCV 0.4000	1	S6	0.38948				97%
		Known Conc:		100.00000				
	CCV 4.0000	1	S3	3.96077				99%
		Known Conc:		100.00000				
		Calibration:		Table/Fig. : 1				
	CCB	1	S10	0.02576				
		Known Conc:		100.00000				
x	L2472705-03	1	21	33.72953		1.50		
x	L2472765-01	1	22	0.61813		1.50		
	L2472765-02	1	23	0.24178		1.50		
	L2472617-01; 20X	1	16	270.79565		300.00		
	L2472626-01; 10X	1	17	114.66149		75.00		
	L2472643-04	1	18	2.48400		1.50		
	L2472705-03; 30X	1	21	~~64.35042~~		~~60.00~~	45	48.2628
	L2472765-01	1	22	0.15521		1.50		
	CCV 0.4000	1	S6	0.40109				100%
		Known Conc:		100.00000				
	CCV 4.0000	1	S3	3.99986				100%
		Known Conc:		100.00000				
	CCB	1	S10	0.02883				
		Known Conc:		100.00000				

Channel 2 (Ammonia High) - Current View

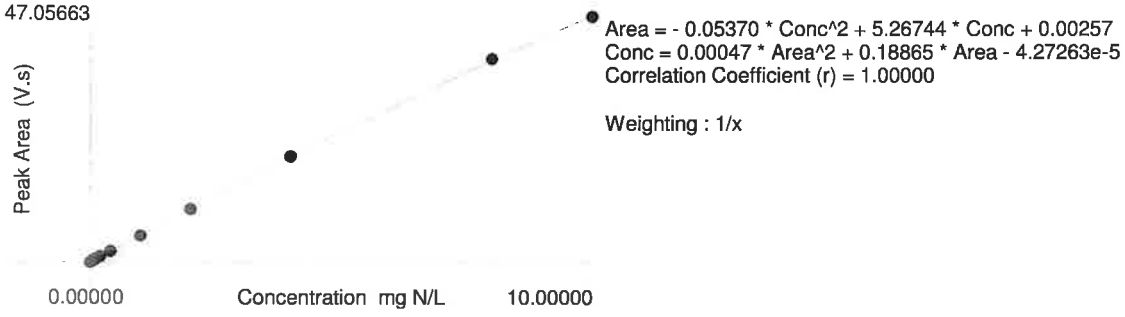


Author: A1WETCHEMINSTRUMENT Date : 12/18/2024

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	47.05663	4.28495	0.0	0.5	9.92651	12/18/2024	7:55:22 AM
2	8.00000	1	38.97268	3.62423	0.0	-0.7	8.07190	12/18/2024	7:56:19 AM
3	4.00000	1	20.40892	1.95023	0.0	-1.0	4.04746	12/18/2024	7:57:16 AM
4	2.00000	1	10.17205	0.97750	0.0	1.5	1.96793	12/18/2024	7:58:13 AM
5	1.00000	1	5.09730	0.49020	0.0	2.3	0.97387	12/18/2024	7:59:10 AM
6	0.40000	1	2.10053	0.20031	0.0	0.0	0.39831	12/18/2024	8:00:09 AM
7	0.20000	1	1.07888	0.09943	0.0	-2.4	0.20404	12/18/2024	8:01:07 AM
8	0.10000	1	0.54186	0.05117	0.0	-2.5	0.10232	12/18/2024	8:02:05 AM
9	0.05000	1	0.28565	0.02616	0.0	-7.5	0.05388	12/18/2024	8:03:02 AM
10	0.00000	1	-0.02313	-0.00114			-0.00441	12/18/2024	8:03:59 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT Date : 12/18/2024

Original Run Filename: OM_12-18-2024_04-27-09PM.OMN Created: 12/18/2024 4:27:09 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-18-2024_04-27-09PM.OMN Last Modified: 12/18/2024 4:55:38 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.39611	99%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	3.94058	99%		
	Known Conc:		100.00000			
CCB	1	S10	0.02618			
	Known Conc:		100.00000			
WG2010312-1; BLK 12/17	1	1	0.04566		1.50	95%
WG2010312-2; HI LCS; 5X	1	2	19.07481		7.50	
LO LCS	1	3	2.02667		1.50	101%
L2472237-01	1	4	0.18406		1.50	
WG2010313-4; 72237.01 MS	1	5	4.36750		1.50	105%
WG2010313-3; 72237.1 DUP	1	6	0.22720		1.50	21% (2 tbl)
L2472759-05	1	7	0.60969		1.50	
WG2010312-4; 72759.5 MS	1	8	4.93105		1.50	108%
WG2040312-3; 72759.5 DUP	1	9	0.74807		1.50	21%
L2472759-06	1	10	0.47388		1.50	
CCV 0.4000	1	S6	0.39836	100%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.93244	98%		
	Known Conc:		100.00000			
CCB	1	S10	0.02725			
	Known Conc:		100.00000			
L2472759-07	1	11	0.14789		1.50	
L2472759-08	1	12	0.06318		1.50	
L2472759-09	1	13	0.11277		1.50	
L2472759-10	1	14	0.04837		1.50	
L2472759-11	1	15	0.23387		7.50	
L2472759-12	1	16	0.04706		1.50	
L2472759-13	1	17	0.06039		1.50	
CCV 0.4000	1	S6	0.38728	97%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.87104	97%		
	Known Conc:		100.00000			
CCB	1	S10	0.02907			
	Known Conc:		100.00000			

F

Author: A1WETCHEMINSTRUMENT

Date : 12/18/2024

Channel 2 (Ammonia High) - Current View

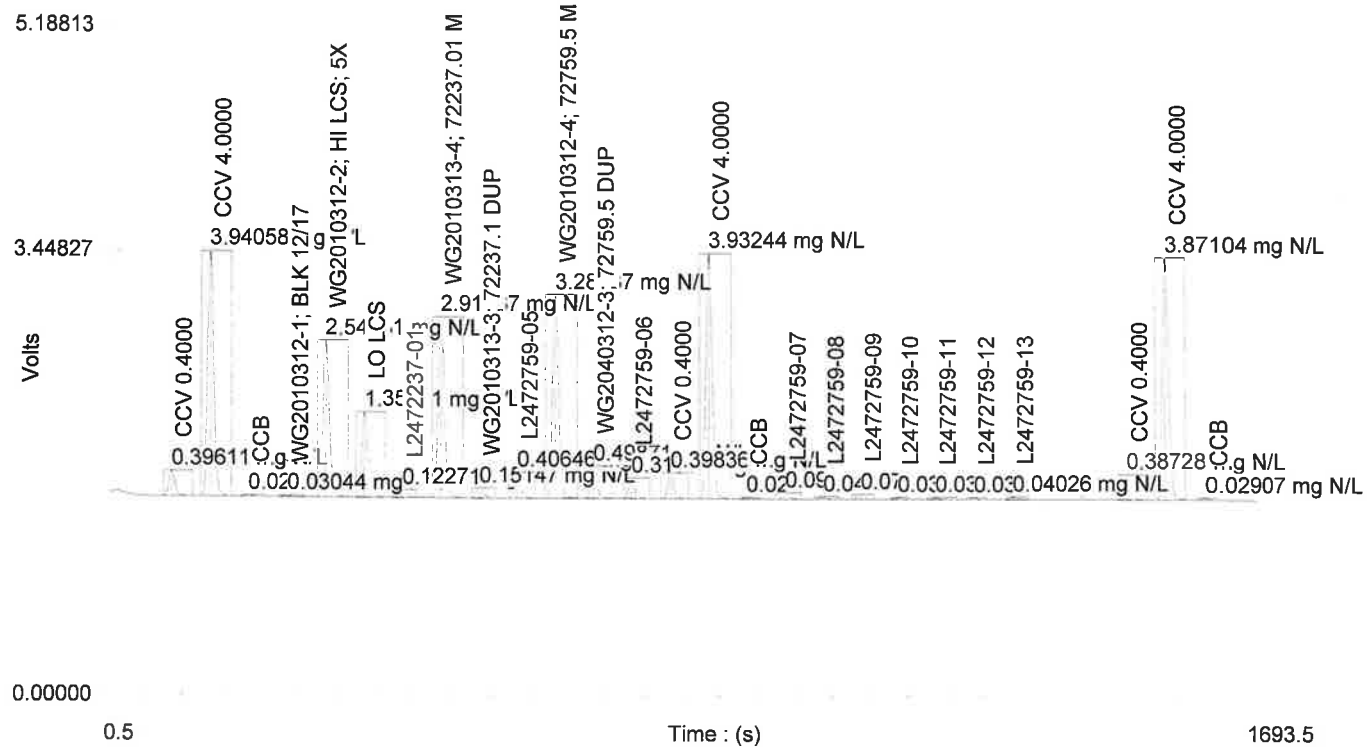
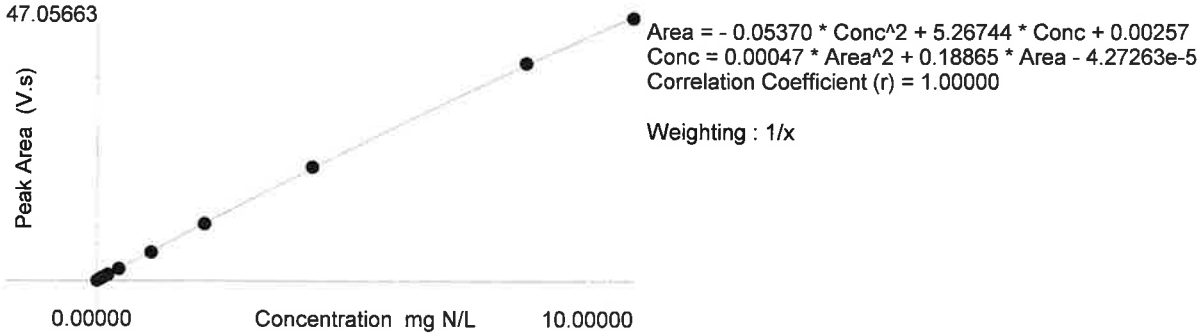


Table : 1 (Ammonia)

	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	47.05663	4.28495	0.0	0.5	9.92651	12/18/2024	7:55:22 AM
2	8.00000	1	38.97268	3.62423	0.0	-0.7	8.07190	12/18/2024	7:56:19 AM
3	4.00000	1	20.40892	1.95023	0.0	-1.0	4.04746	12/18/2024	7:57:16 AM
4	2.00000	1	10.17205	0.97750	0.0	1.5	1.96793	12/18/2024	7:58:13 AM
5	1.00000	1	5.09730	0.49020	0.0	2.3	0.97387	12/18/2024	7:59:10 AM
6	0.40000	1	2.10053	0.20031	0.0	0.0	0.39831	12/18/2024	8:00:09 AM
7	0.20000	1	1.07888	0.09943	0.0	-2.4	0.20404	12/18/2024	8:01:07 AM
8	0.10000	1	0.54186	0.05117	0.0	-2.5	0.10232	12/18/2024	8:02:05 AM
9	0.05000	1	0.28565	0.02616	0.0	-7.5	0.05388	12/18/2024	8:03:02 AM
10	0.00000	1	-0.02313	-0.00114			-0.00441	12/18/2024	8:03:59 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

Date : 12/18/2024

Original Run Filename: OM_12-18-2024_04-56-40PM.OMN Created: 12/18/2024 4:56:40 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-18-2024_04-56-40PM.OMN Last Modified: 12/18/2024 5:27:59 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.39420	99%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	3.88115	97%		
	Known Conc:		100.00000			
CCB	1	S10	0.03239	✓		
	Known Conc:		100.00000			
WG2010318-1 T; BLK 12/17	1	1	0.02122			
WG2010318-2 T; HI LCS; 5X	1	2	37.32956		15.00	93%
LO LCS T	1	3	4.03529		3.00	101%
L2472341-19 T	1	4	0.28182		3.00	
L2472341-20 T	1	5	0.05557		3.00	
L2472759-01 T	1	6	0.23155		3.00	
L2472759-02 T	1	7	0.40885		3.00	
L2472759-03 T	1	8	0.25143	✓	3.00	104%
WG2010318-4 T; 72759.3 MS	1	9	8.33856		3.00	HCL (+Na)
WG2010318-3 T; 72759.3 DUP	1	10	0.45144	✓	3.00	
CCV 0.4000	1	S6	0.40037	(90%)		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.88208	97%		
	Known Conc:		100.00000			
CCB	1	S10	0.03214	✓		
	Known Conc:		100.00000			
L2472759-04 T	1	11	0.30074		3.00	
L2472759-05 T	1	12	0.59707		3.00	
L2472759-06 T	1	13	0.48463		3.00	
L2472759-07 T	1	14	0.18239		3.00	
L2472759-08 T	1	15	0.11209		3.00	
L2472759-09 T	1	16	0.08567		3.00	
L2472759-10 T	1	17	0.59863		3.00	
L2472759-11 T	1	18	0.25295		3.00	
L2472759-12 T	1	19	0.11792		3.00	
L2472759-13 T	1	20	0.15011		3.00	
CCV 0.4000	1	S6	0.38696	97%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.85741	97%		
	Known Conc:		100.00000			
CCB	1	S10	0.02593	✓		
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 12/18/2024

Channel 2 (Ammonia High) - Current View

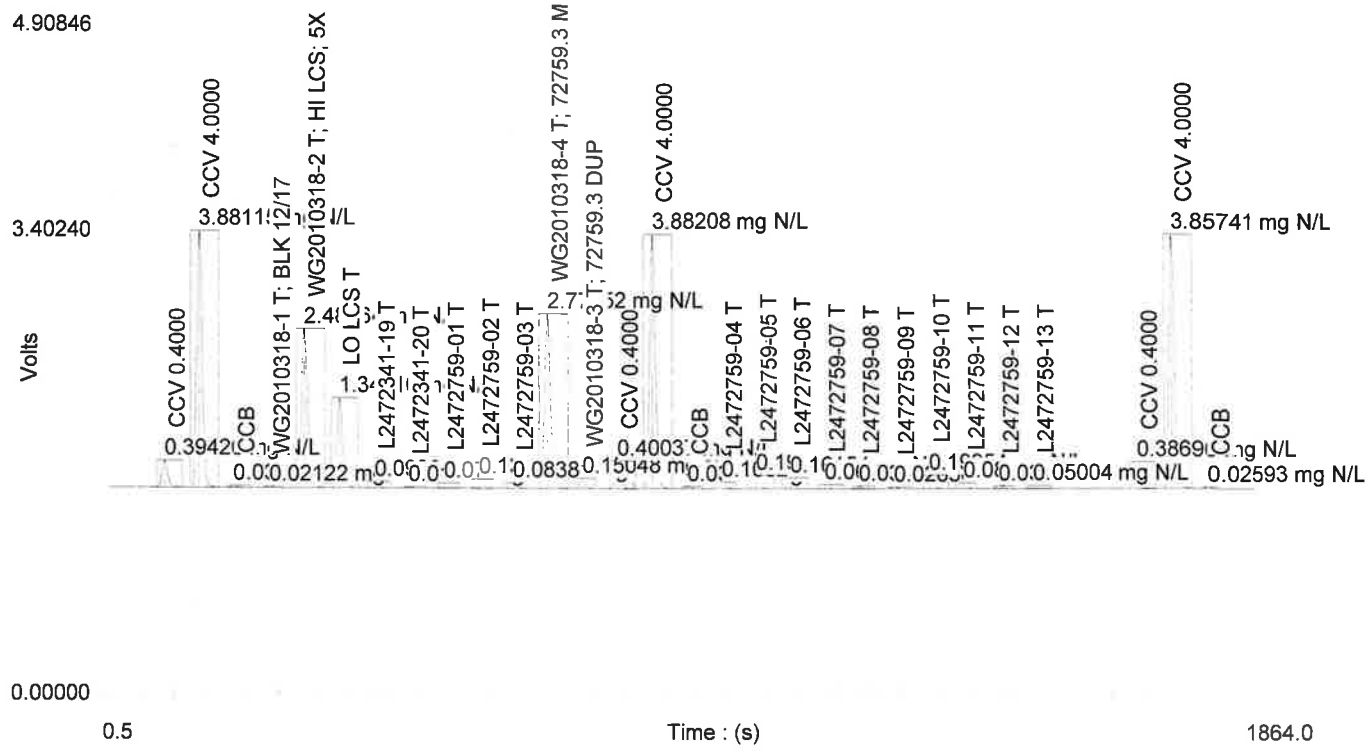
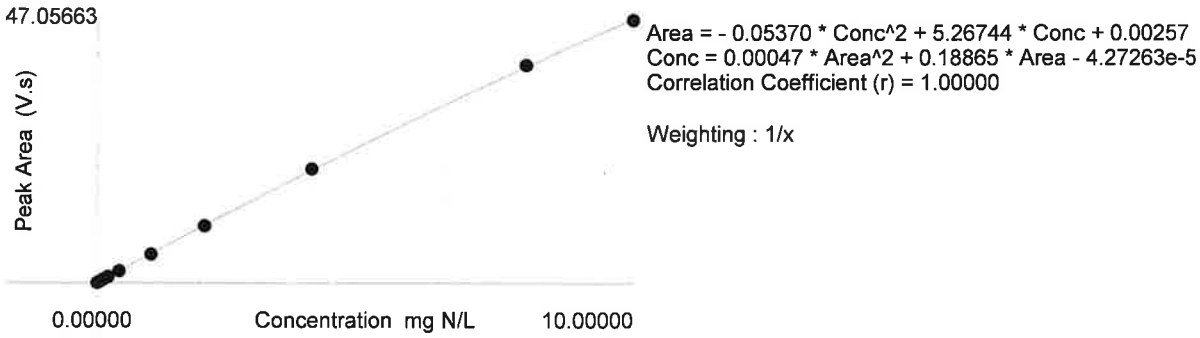


Table : 1 (Ammonia)

	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	47.05663	4.28495	0.0	0.5	9.92651	12/18/2024	7:55:22 AM
2	8.00000	1	38.97268	3.62423	0.0	-0.7	8.07190	12/18/2024	7:56:19 AM
3	4.00000	1	20.40892	1.95023	0.0	-1.0	4.04746	12/18/2024	7:57:16 AM
4	2.00000	1	10.17205	0.97750	0.0	1.5	1.96793	12/18/2024	7:58:13 AM
5	1.00000	1	5.09730	0.49020	0.0	2.3	0.97387	12/18/2024	7:59:10 AM
6	0.40000	1	2.10053	0.20031	0.0	0.0	0.39831	12/18/2024	8:00:09 AM
7	0.20000	1	1.07888	0.09943	0.0	-2.4	0.20404	12/18/2024	8:01:07 AM
8	0.10000	1	0.54186	0.05117	0.0	-2.5	0.10232	12/18/2024	8:02:05 AM
9	0.05000	1	0.28565	0.02616	0.0	-7.5	0.05388	12/18/2024	8:03:02 AM
10	0.00000	1	-0.02313	-0.00114			-0.00441	12/18/2024	8:03:59 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

Date : 12/18/2024

Original Run Filename: OM_12-18-2024_05-29-22PM.OMN Created: 12/18/2024 5:29:22 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-18-2024_05-29-22PM.OMN Last Modified: 12/18/2024 5:52:13 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

H

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
CCV 0.4000	1	S6	0.39004	98%			
	Known Conc:		100.00000				
CCV 4.0000	1	S3	3.85893	97%			
	Known Conc:		100.00000				
	Calibration:		Table/Fig. : 1				
CCB	1	S10	0.02753				
	Known Conc:		100.00000				
WG2009804-1; BLK 12/16 SOIL	1	1	1.21718		150.00	1.10830 g	96%
WG2009804-2; HI LCS SOIL; 5X	1	2	1670.35132		750.00	1.14440 g	
LO LCS SOIL	1	3	137.19539		150.00	1.32290 g	91%
L2472347-01; 10X	1	4	1191.62598		1500.00	1.13260 g	
L2472199-01; 10X	1	5	1987.32715		1500.00	1.14230 g	
L2472465-01	1	6	22.30752		150.00	1.24300 g	
L2472465-02	1	7	9.65181		150.00	1.11650 g	
WG2009804-4; 72465.2 MS	1	8	345.35654		150.00	1.11620 g	92%
WG2009804-3; 72465.2 DUP	1	9	19.27091		150.00	1.10800 g	67% (RPD)
L2472465-03	1	10	5.61396		150.00	1.12840 g	
CCV 0.4000	1	S6	0.39333	98%			
	Known Conc:		100.00000				
CCV 4.0000	1	S3	3.87233	97%			
	Known Conc:		100.00000				
CCB	1	S10	0.02901				
	Known Conc:		100.00000				
L2472465-04	1	11	3.81834		150.00	1.30220 g	
CCV 0.4000	1	S6	0.38793	97%			
	Known Conc:		100.00000				
CCV 4.0000	1	S3	3.87726	97%			
	Known Conc:		100.00000				
CCB	1	S10	0.03120				
	Known Conc:		100.00000				

cvs = .1748 mg/kg

lo cvs = .151 mg/kg

MS = 358 mg/kg

Author: A1WETCHEMINSTRUMENT Date : 12/18/2024

Channel 2 (Ammonia High) - Current View

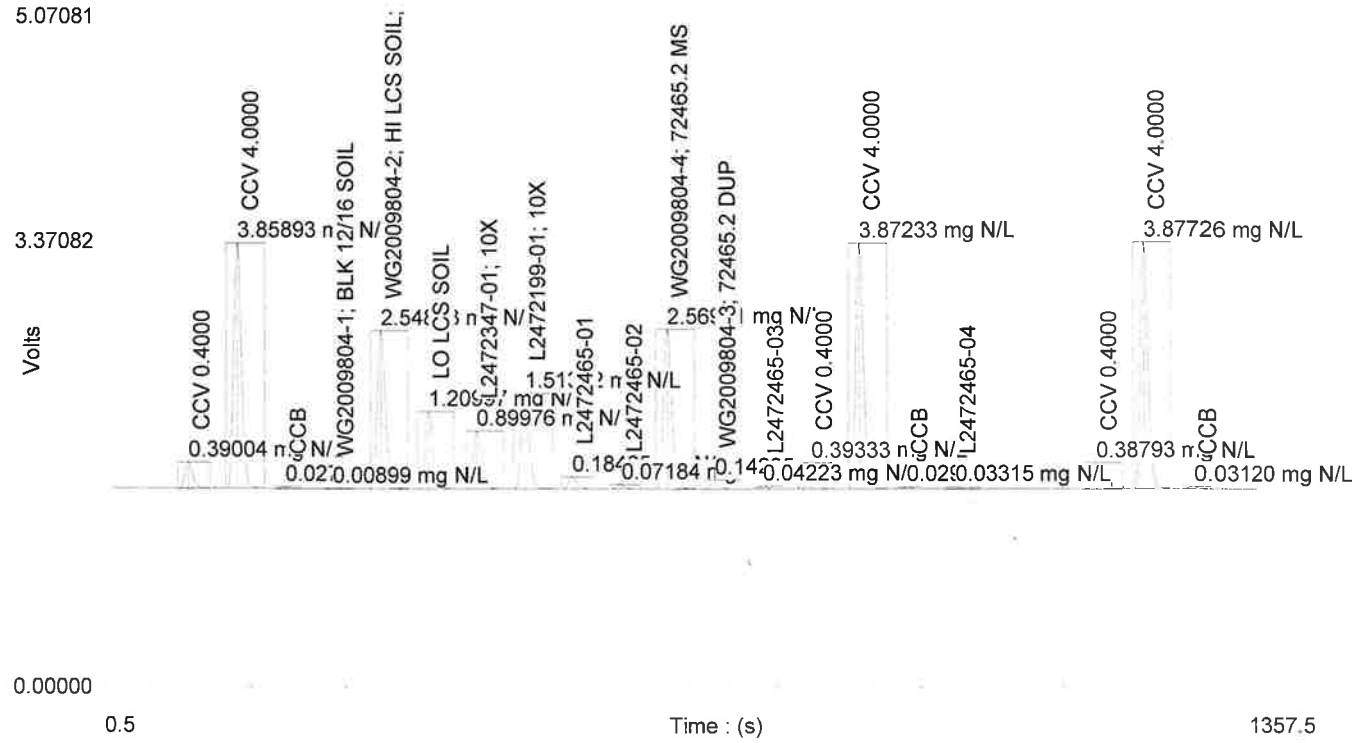
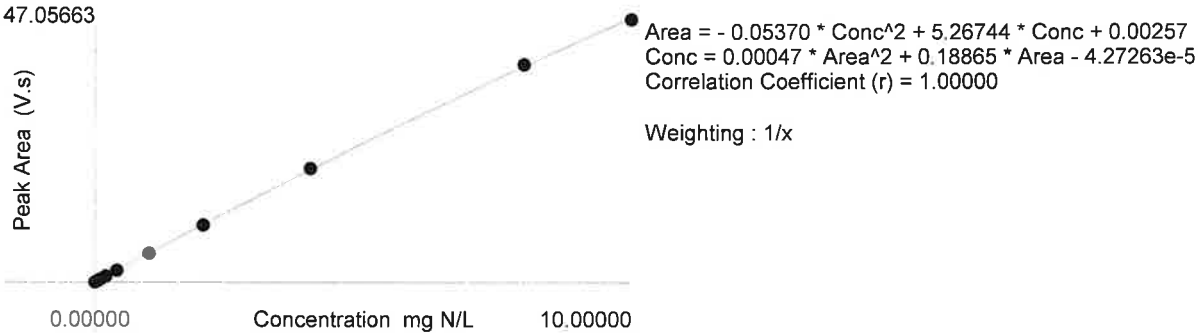


Table : 1 (Ammonia)

	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	47.05663	4.28495	0.0	0.5	9.92651	12/18/2024	7:55:22 AM
2	8.00000	1	38.97268	3.62423	0.0	-0.7	8.07190	12/18/2024	7:56:19 AM
3	4.00000	1	20.40892	1.95023	0.0	-1.0	4.04746	12/18/2024	7:57:16 AM
4	2.00000	1	10.17205	0.97750	0.0	1.5	1.96793	12/18/2024	7:58:13 AM
5	1.00000	1	5.09730	0.49020	0.0	2.3	0.97387	12/18/2024	7:59:10 AM
6	0.40000	1	2.10053	0.20031	0.0	0.0	0.39831	12/18/2024	8:00:09 AM
7	0.20000	1	1.07888	0.09943	0.0	-2.4	0.20404	12/18/2024	8:01:07 AM
8	0.10000	1	0.54186	0.05117	0.0	-2.5	0.10232	12/18/2024	8:02:05 AM
9	0.05000	1	0.28565	0.02616	0.0	-7.5	0.05388	12/18/2024	8:03:02 AM
10	0.00000	1	-0.02313	-0.00114			-0.00441	12/18/2024	8:03:59 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

Date : 12/18/2024

Original Run Filename: OM_12-18-2024_05-53-22PM.OMN Created: 12/18/2024 5:53:22 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-18-2024_05-53-22PM.OMN Last Modified: 12/18/2024 6:24:41 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

I

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.38923	97%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.83369	96%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.03302			
	Known Conc:		100.00000			
WG2010169-1 T; BLK 12/17	1	1	0.03309			93%
WG2010169-2 T; HI LCS; 5X	1	2	37.00562		15.00	
LO LCS T	1	3	3.91791		3.00	98%
L2472325-01 T	1	4	17.79196		3.00	
L2472341-15 T	1	5	1.79200		3.00	
L2472341-16 T	1	6	0.43717		6.00	
L2472341-17 T	1	7	0.44320		3.00	
L2472341-18 T	1	8	0.13797		3.00	
L2473162-01 T	1	9	0.22227		3.00	
L2473162-02 T	1	10	0.12141		3.00	
CCV 0.4000	1	S6	0.38962	98%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.85790	97%		
	Known Conc:		100.00000			
CCB	1	S10	0.03402			
	Known Conc:		100.00000			
L2473162-03 T	1	11	0.07658		3.00	
L2473162-04 T	1	12	0.06513		3.00	
L2473162-05 T	1	13	0.12996		3.00	
L2473162-06 T	1	14	0.12442		3.00	104%
WG2010169-4 T; 73162.6 MS	1	15	8.38047		3.00	WC(CCV+LCS)
WG2010169-3 T; 73162.6 DUP	1	16	0.42576		3.00	
L2473162-07 T	1	17	0.15684		3.00	
L2473162-08 T	1	18	0.07735		3.00	
L2473162-09 T	1	19	0.07510		3.00	
L2473162-10 T	1	20	0.14434		3.00	
CCV 0.4000	1	S6	0.38540	96%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.83895	96%		
	Known Conc:		100.00000			
CCB	1	S10	0.03025			
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 12/18/2024

Channel 2 (Ammonia High) - Current View

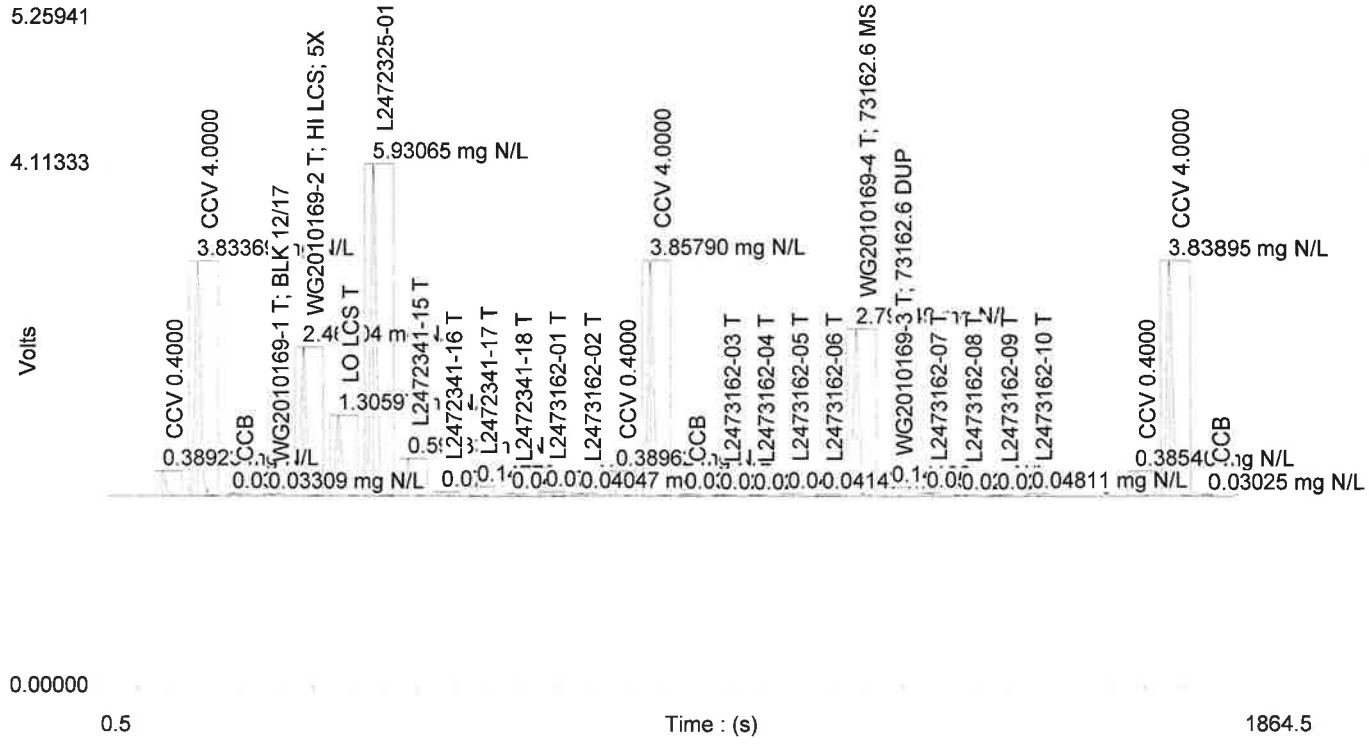
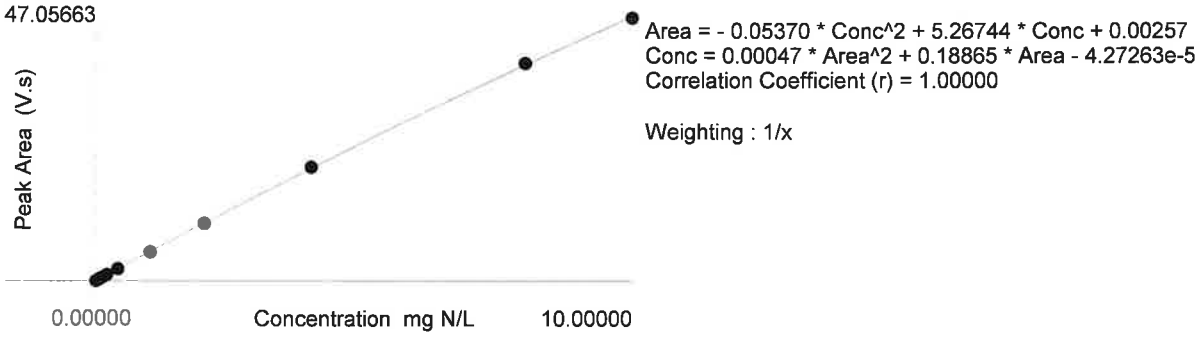


Table : 1 (Ammonia)

	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	47.05663	4.28495	0.0	0.5	9.92651	12/18/2024	7:55:22 AM
2	8.00000	1	38.97268	3.62423	0.0	-0.7	8.07190	12/18/2024	7:56:19 AM
3	4.00000	1	20.40892	1.95023	0.0	-1.0	4.04746	12/18/2024	7:57:16 AM
4	2.00000	1	10.17205	0.97750	0.0	1.5	1.96793	12/18/2024	7:58:13 AM
5	1.00000	1	5.09730	0.49020	0.0	2.3	0.97387	12/18/2024	7:59:10 AM
6	0.40000	1	2.10053	0.20031	0.0	0.0	0.39831	12/18/2024	8:00:09 AM
7	0.20000	1	1.07888	0.09943	0.0	-2.4	0.20404	12/18/2024	8:01:07 AM
8	0.10000	1	0.54186	0.05117	0.0	-2.5	0.10232	12/18/2024	8:02:05 AM
9	0.05000	1	0.28565	0.02616	0.0	-7.5	0.05388	12/18/2024	8:03:02 AM
10	0.00000	1	-0.02313	-0.00114			-0.00441	12/18/2024	8:03:59 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

Date : 12/18/2024

Original Run Filename: OM_12-18-2024_07-42-59PM.OMN Created: 12/18/2024 7:42:59 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-18-2024_07-42-59PM.OMN Last Modified: 12/18/2024 8:06:46 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.38790	97%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.86684	97%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.02832			
	Known Conc:		100.00000			
WG2010643-1 T; BLK 12/18 SOIL	1	1	0.01122		1.00	1.00000 g
WG2010643-2 T; HI LCS SOIL; 5X	1	2	17639.73242		750.00	0.10800 g
LO LCS T SOIL	1	3	1227.64697		150.00	0.15880 g
L2473839-02 T	1	4	4220.56982		150.00	0.15150 g
L2472347-01 T; 10X	1	5	11134.31250		1500.00	0.14020 g
L2472199-01 T; 10X	1	6	13468.51465		1500.00	0.11900 g
L2472465-01 T	1	7	1434.93188		150.00	0.14210 g
L2472465-02 T	1	8	689.00018		150.00	0.12660 g
WG2010643-4 T; 72465.2 MS	1	9	3789.73364		150.00	0.13980 g
WG2010643-3 T; 72465.2 DUP	1	10	711.81415		150.00	0.12400 g
CCV 0.4000	1	S6	0.42054	105%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.86601	97%		
	Known Conc:		100.00000			
CCB	1	S10	0.03830			
	Known Conc:		100.00000			
L2472465-03 T	1	11	510.35080		150.00	0.14700 g
L2472465-04 T	1	12	570.11395		150.00	0.13770 g
CCV 0.4000	1	S6	0.39530	99%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.83658	96%		
	Known Conc:		100.00000			
CCB	1	S10	0.03733			
	Known Conc:		100.00000			

(5)

WS ~ .1859 mg/kg

LO WS ~ .1259 mg/kg

WS ~ 2861 mg/kg

Author: A1WETCHEMINSTRUMENT

Date : 12/18/2024

Channel 2 (Ammonia High) - Current View

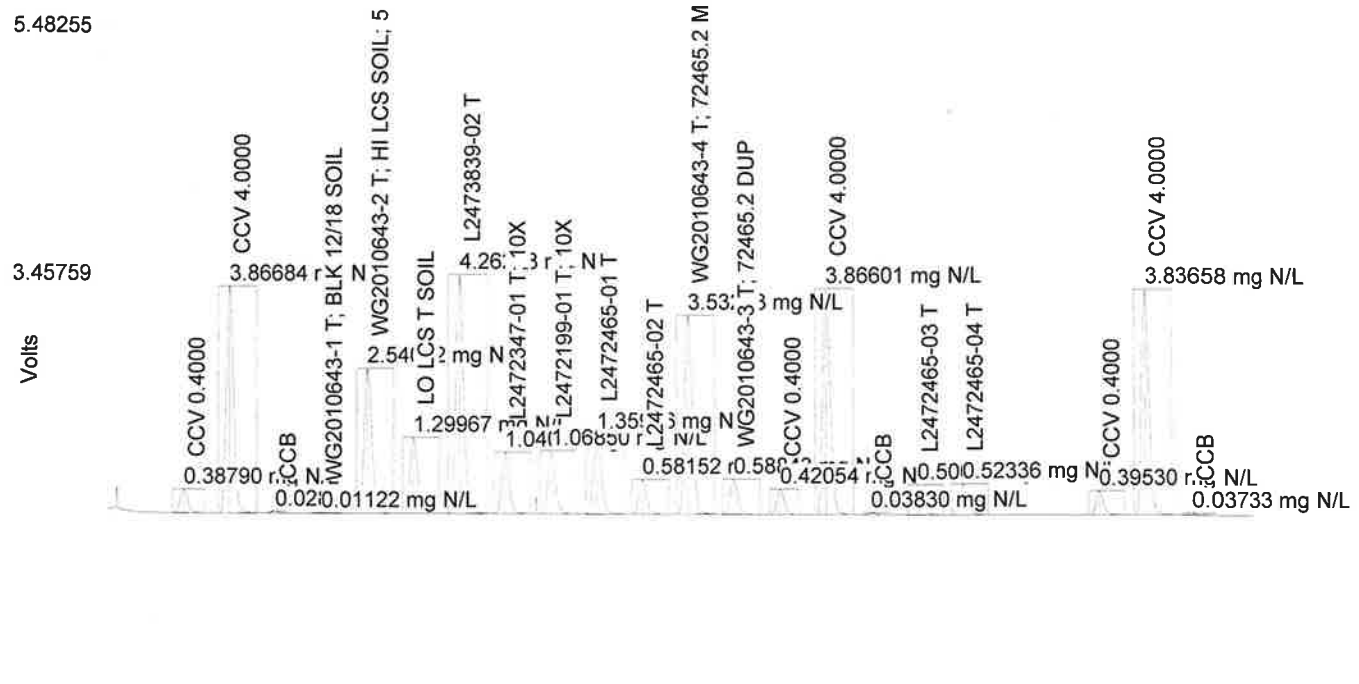
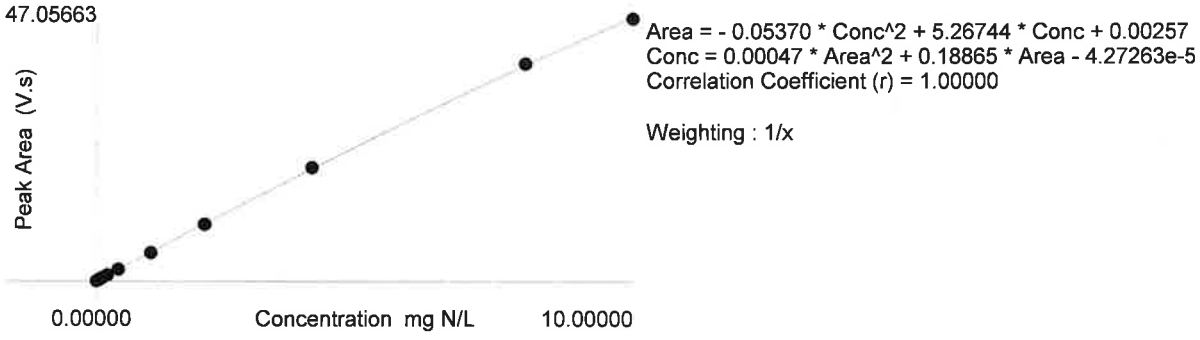


Table : 1 (Ammonia)

	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	47.05663	4.28495	0.0	0.5	9.92651	12/18/2024	7:55:22 AM
2	8.00000	1	38.97268	3.62423	0.0	-0.7	8.07190	12/18/2024	7:56:19 AM
3	4.00000	1	20.40892	1.95023	0.0	-1.0	4.04746	12/18/2024	7:57:16 AM
4	2.00000	1	10.17205	0.97750	0.0	1.5	1.96793	12/18/2024	7:58:13 AM
5	1.00000	1	5.09730	0.49020	0.0	2.3	0.97387	12/18/2024	7:59:10 AM
6	0.40000	1	2.10053	0.20031	0.0	0.0	0.39831	12/18/2024	8:00:09 AM
7	0.20000	1	1.07888	0.09943	0.0	-2.4	0.20404	12/18/2024	8:01:07 AM
8	0.10000	1	0.54186	0.05117	0.0	-2.5	0.10232	12/18/2024	8:02:05 AM
9	0.05000	1	0.28565	0.02616	0.0	-7.5	0.05388	12/18/2024	8:03:02 AM
10	0.00000	1	-0.02313	-0.00114			-0.00441	12/18/2024	8:03:59 AM

Figure : 1 (Ammonia)



Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix**	: WATER
Lab Sample ID	: L2473162-06		
Matrix Spike	: WG2010169-4	**MS Analysis Date**	: 12/18/24 18:13
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	0.124J	8	8.38	105					77-111	24

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix**	: WATER
Lab Sample ID	: L2473162-06	**Analysis Date**	: 12/18/24 18:12
Dup Sample ID	: WG2010169-3	**DUP Analysis Date**	: 12/18/24 18:14

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Total Kjeldahl	0.124J	0.426	NC	24

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2010169-2	**LCS Analysis Date**	: 12/18/24 17:58
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, Total Kjeldahl	**40.0**	**37.0**	**92.**					**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

Tray A (09-53-33AM)
[08-34-34AM]
Prep - 12/16/24 21:54

Hi ICV 8.0
LOW ICV 1.0
JCB
WG2009799-1 BLK
LCS Hi - 2 5x
LCS LOW
L2471170 - 01 (2x)
2589 - 05
- 05 MS
- 05 DUP
- 06
2609 - 01 (2x)
- 02
2610 - 01
15 - 01
17 - 01 (10x); 20x 0.5/10
26 - 01 (5x); 10x 1/10
43 - 04
92 - 01 (10x)
2705 - 02
- 03 (30x) 1/30
2765 - 01
- 02

: 12/18/24
um Phenolate:12/2/24 R4065
um Hypochlorate:12/2/24 Stop&Shop
um Nitropruisside:12/2/24 R3969
: Acid Soln:12/2/24 R4019
.0 12/9/24 WC-3508
.0 td:12/9/24 WC-3488

Tray B (09-13-43AM)
Prep - 12/17/24 22:22

1		WG2010306-1 BLK
2		LCS Hi - 2 5x
3		LCS LOW
~~4~~		~~L2472497 - 01~~ KEM
5	4	L2472497 - 02
KEM 6	5	- 03
7	6	- 04
8	7	- 05
9	8	- 06
10	9	- 07
11	10	- 08
12	11	- 09
13	12	- 10
14	13	- 11
15	14	- 12 (10x)
16	15	- 13
17	16	- 14
18	17	- 15 ~~(10x)~~ KEM (5x)
19	18	- 16
20	19	- 17
21	20	- 48
22	21	- 19; 10x 1/10
23	22	- 20
24	23	- 21
25	24	- 21 MS
26	25	- 21 DUP

To Page No. ____

essed & Understood by me, | Date | Invented by: | Date
Recorded by:

Project No. _____

dential Book No. _____ TITLE NH3 12/18/24 REM cont.

Page No. ____

Tray E (02-33-19PM, 03-04-00PM)
prep 12/17/24 @ 18:30

~~WG-200~~ REM WG2010147-1T.Blk
-2T; LCS Hi; 5X

LCS LoT
72492-01T
-02T
-02T MS
-02T Dup
72515-01T
-02T
72518-01T
-02T
72561-01T
72652-01T
72746-01T
73045-01T; 10x 1710
73297-01T
73457-01T
-02T
737760-01T
-02T

tg-F (04-27-09Pm)
p-p 12/17/24 @ 2254

1 WG-2010312-1. Blk 12/17 (2010313)
2 WG-2010312-2; Hi MS -5x
3 LCS
4 72237-1
5 WG-2010313-4; 72237-1 MS
6 WG-2010313-3; 72237-1 Dup
7 72759-5
8 WG-2010312-4; 72759.5 MS
9 WG-2010312-3; 72759.5 Dup
10 72759.6
11 .7
12 .8
13 .9
14 .10
15 .11 (5x)
16 .12
17 .3
18

tg-H (05-29-22Pm)
p-p 12/16/24 @ 2208

1 WG-2009804-1. Blk 12/16 Soil (1.1073)
2 WG-2009804-2; Hi MS Dup -5x (1.1444)
3 LCS Soil (1.3229)
4 72547-1-10x (1.1326)
5 72199.1-10x (1.1423)
6 72465-1 (1.2430)
7 -2 (1.1165)
8 WG-2009804-4; 72465-2 MS (1.1162)
9 WG-2009804-3; 72465-2 Dup (1.1080)
10 72465-3 (1.1284)
11 -4 (1.3022)

To Page No. ____

sed & Understood by me, | Date | Invented by: | Date
Recorded by:

From Page No.

tf-G (04-56-40PM)
Pup 12/17/24 @207

1 WL-2010318-1 T; BLL 12/17
2 WL-2010318-2 T; Hi WS-TX
3 WS T
4 72341.1 T
5 .2 T
6 72359.1 T
7 .2 T
8 .3 T
9 WL-2010318-4 T; 72359.3 MS
10 WL-2010318-3 T; 72359.3 BP
11 72359.4 T
12 .5 T
13 .6 T
14 .7 T
15 .8 T
16 .9 T
17 .10 T
18 .11 T
19 .12 T
20 .13 T

tf-I (05-53-22PM)
Pup 12/17/24 @ 1830

1 WL-2010169-1 T; BLL 12/17
2 WL-2010169-2 T; Hi WS-TX
3 WS T
4 72325.1 T
5 72341.15 T
6 .16 T (2x)
7 ~~73~~ .17 T
8 .18 T
9 73162.1 T
10 .2 T
11 .3 T
12 .4 T
13 .5 T
14 .6 T
15 WL-2010169-4 T; 73162.6 MS
16 WL-2010169-3 T; 73162.6 BP
17 73162.7 T
18 .8 T
19 .9 T
20 .10 T

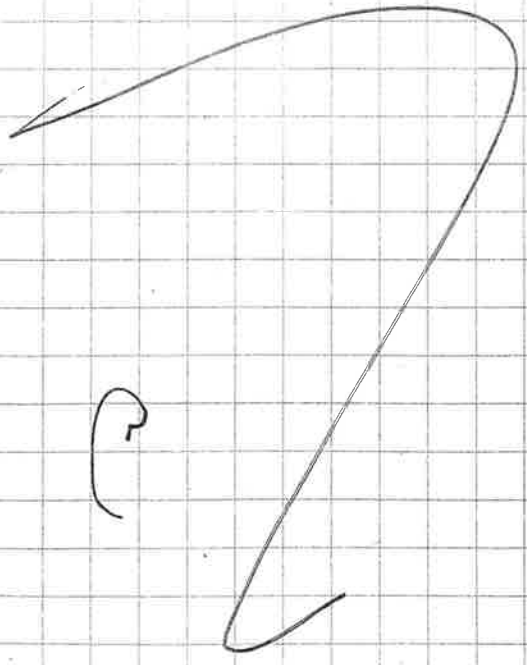
To Page N

Witnessed & Understood by me, Date | Invented by: Date | Recorded by:

111

ty - J (07-42-59PM)
P-p 12/18/24 @ 1100

1	WG-2010643-1 T. Blu 12/18 Soil	(0.1274)
2	WG-2010643-2 T. Thi Ug Soil-J +	(0.1060)
3	6 Ug T Sm	(0.1188)
4	73859.2 T	(0.1515)
5	72347.1 T-10 +	(0.1402)
6	72199.1 T-10 +	(0.1190)
7	72465.1 J	(0.1421)
8	.2 J	(0.1266)
9	WG-2010643-4 T. 72465.2 MS	(0.1398)
10	WG-2010643-3 T. 72465.2 Dup	(0.1240)
11	72465.3 J	(0.1470)
12	.4 J	(0.1377)



To Page No. ____

ssed & Understood by me, | Date | Invented by: | Date
Recorded by:

Sample Preparation

Sample	Volume	Dilution	Final vol.
Blank	50mL	1x	150mL
LOW			
High			
L2472325-01		2X (25↑50) N÷6	
72341-15		1x	
-16			
-17			
-18			
73162-01			
-02			
-03			
-04			
-05			
-06 Pt			
-06 Dup			
-06 MS.			
-07			
-08			
-09			
-10			

Same standards 12/17/24 @ 18:30 SAO

of Reagents

as previous

pg # 124

Nitrates checked ✓

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**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-03	**Date Collected**	:	12/12/24 09:50
Client ID	:	MW-1SR	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/14/24 09:21
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241214-B1	**Instrument ID**	:	LACHAT
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**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-04	**Date Collected**	:	12/12/24 10:10
Client ID	:	MW-1DR2	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/14/24 09:41
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241214-B1	**Instrument ID**	:	LACHAT
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	:	L2473162
Project Name	:	CORAM MATERIALS	Project Number	:	2232.0006Y005
Lab ID	:	L2473162-05	Date Collected	:	12/12/24 11:40
Client ID	:	MP-1	Date Received	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	:	12/14/24 09:42
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	121,4500NO3-F	Analyst	:	KAF
Lab File ID	:	NO3241214-B1	Instrument ID	:	LACHAT
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**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-06	**Date Collected**	:	12/12/24 12:05
Client ID	:	MP-1D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/14/24 09:43
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241214-B1	**Instrument ID**	:	LACHAT
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	:	L2473162
Project Name	:	CORAM MATERIALS	Project Number	:	2232.0006Y005
Lab ID	:	L2473162-07	Date Collected	:	12/12/24 12:00
Client ID	:	DUP_121224	Date Received	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	:	12/14/24 10:01
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	121,4500NO3-F	Analyst	:	KAF
Lab File ID	:	NO3241214-B1	Instrument ID	:	LACHAT
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	:	L2473162
Project Name	:	CORAM MATERIALS	Project Number	:	2232.0006Y005
Lab ID	:	L2473162-08	Date Collected	:	12/12/24 14:00
Client ID	:	MW-13S	Date Received	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	:	12/14/24 10:04
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	121,4500NO3-F	Analyst	:	KAF
Lab File ID	:	NO3241214-B1	Instrument ID	:	LACHAT
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**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-09	**Date Collected**	:	12/12/24 14:05
Client ID	:	MW-13D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/14/24 10:09
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241214-B1	**Instrument ID**	:	LACHAT
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**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-10	**Date Collected**	:	12/12/24 13:30
Client ID	:	EB_121224	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/14/24 10:10
Sample Matrix	:	Equipment Blank	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241214-B1	**Instrument ID**	:	LACHAT
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2009137-1	**Date Collected**	: NA
Client ID	: WG2009137-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/14/24 09:32
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3241214-B1	**Instrument ID**	: LACHAT
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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2009137-3	**Date Collected**	: 12/12/24 12:05
Client ID	: MP-1DDUP	**Date Received**	: 12/12/24
Sample Location	:	**Date Analyzed**	: 12/14/24 09:56
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3241214-B1	**Instrument ID**	: LACHAT
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**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-01	**Date Collected**	:	12/12/24 08:25
Client ID	:	MW-11S	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/14/24 08:23
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO2-B	**Analyst**	:	KAF
Lab File ID	:	WG2009965.csv	**Instrument ID**	:	SPEC3
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrite	ND	0.020	0.009	U

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-02	**Date Collected**	:	12/12/24 08:42
Client ID	:	MW-11D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/14/24 08:23
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO2-B	**Analyst**	:	KAF
Lab File ID	:	WG2009965.csv	**Instrument ID**	:	SPEC3
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrite	0.010	0.020	0.009	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2009965-1	**Date Collected**	: NA
Client ID	: WG2009965-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/14/24 08:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO2-B	**Analyst**	: KAF
Lab File ID	: WG2009965.csv	**Instrument ID**	: SPEC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrite	ND	0.020	0.009	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2009965-3	**Date Collected**	: 12/12/24 08:25
Client ID	: MW-11SDUP	**Date Received**	: 12/12/24
Sample Location	:	**Date Analyzed**	: 12/14/24 08:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO2-B	**Analyst**	: KAF
Lab File ID	: WG2009965.csv	**Instrument ID**	: SPEC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrite	ND	0.020	0.010	U

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-01	**Date Collected**	:	12/12/24 08:25
Client ID	:	MW-11S	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/14/24 07:13
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241214-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	0.480	0.100	0.022	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-02	**Date Collected**	:	12/12/24 08:42
Client ID	:	MW-11D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/14/24 07:14
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241214-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	0.314	0.100	0.022	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-03	**Date Collected**	:	12/12/24 09:50
Client ID	:	MW-1SR	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/14/24 07:15
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241214-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	1.50	0.100	0.022	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-04	**Date Collected**	:	12/12/24 10:10
Client ID	:	MW-1DR2	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/14/24 07:17
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241214-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	1.55	0.100	0.022	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-05	**Date Collected**	:	12/12/24 11:40
Client ID	:	MP-1	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/14/24 07:18
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241214-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	1.02	0.100	0.022	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-06	**Date Collected**	:	12/12/24 12:05
Client ID	:	MP-1D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/14/24 07:19
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241214-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	0.677	0.100	0.022	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-07	**Date Collected**	:	12/12/24 12:00
Client ID	:	DUP_121224	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/14/24 07:28
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241214-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	0.659	0.100	0.022	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-08	**Date Collected**	:	12/12/24 14:00
Client ID	:	MW-13S	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/14/24 07:29
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241214-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	5.06	0.100	0.022	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-09	**Date Collected**	:	12/12/24 14:05
Client ID	:	MW-13D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/14/24 07:30
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241214-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	2.37	0.100	0.022	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-10	**Date Collected**	:	12/12/24 13:30
Client ID	:	EB_121224	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/14/24 07:31
Sample Matrix	:	Equipment Blank	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241214-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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2009140-1	**Date Collected**	: NA
Client ID	: WG2009140-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/14/24 05:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3241214-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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2009140-3	**Date Collected**	: 12/12/24 12:05
Client ID	: MP-1DDUP	**Date Received**	: 12/12/24
Sample Location	:	**Date Analyzed**	: 12/14/24 07:24
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3241214-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	0.669	0.100	0.023	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-01	**Date Collected**	:	12/12/24 08:25
Client ID	:	MW-11S	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/14/24 07:13
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241214-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	0.48	0.10	0.046	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-02	**Date Collected**	:	12/12/24 08:42
Client ID	:	MW-11D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/14/24 07:14
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241214-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	0.31	0.10	0.046	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-03	**Date Collected**	:	12/12/24 09:50
Client ID	:	MW-1SR	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/14/24 07:15
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241214-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	1.5	0.10	0.046	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-04	**Date Collected**	:	12/12/24 10:10
Client ID	:	MW-1DR2	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/14/24 07:17
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241214-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	1.5	0.10	0.046	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-05	**Date Collected**	:	12/12/24 11:40
Client ID	:	MP-1	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/14/24 07:18
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241214-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	1.0	0.10	0.046	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-06	**Date Collected**	:	12/12/24 12:05
Client ID	:	MP-1D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/14/24 07:19
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241214-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	0.68	0.10	0.046	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-07	**Date Collected**	:	12/12/24 12:00
Client ID	:	DUP_121224	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/14/24 07:28
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241214-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	0.66	0.10	0.046	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-08	**Date Collected**	:	12/12/24 14:00
Client ID	:	MW-13S	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/14/24 07:29
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241214-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	5.1	0.10	0.046	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-09	**Date Collected**	:	12/12/24 14:05
Client ID	:	MW-13D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/14/24 07:30
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241214-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	2.4	0.10	0.046	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-10	**Date Collected**	:	12/12/24 13:30
Client ID	:	EB_121224	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/14/24 07:31
Sample Matrix	:	Equipment Blank	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241214-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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2009144-1	**Date Collected**	: NA
Client ID	: WG2009144-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/14/24 05:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3241214-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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2009144-3	**Date Collected**	: 12/12/24 12:05
Client ID	: MP-1DDUP	**Date Received**	: 12/12/24
Sample Location	:	**Date Analyzed**	: 12/14/24 07:24
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3241214-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	0.67	0.10	0.05	

Sample Raw Data

PACE ANALYTICAL

WET CHEMISTRY DEPARTMENT

NITRITE NITROGEN WORKSHEET

Last Change 03/4/13
File Nitrite-L.xlt

SOP No.: 07-69

Analysis: Nitrite Nitrogen
Method: SM 4500NO2-B
Instrument: SPEC3
Wavelength: 540 nm
Spike Volume(ml): 1
Spike Concentration (mg/l): 5
LCS Volume(ml): 1
LCS Concentration (mg/l): 8

Product: NO2-4500NO2
Curve Calibration Date : 12/14/2024
Curve Identifier: 121424
Analyte: Nitrogen, Nitrite

Technician: KAF
Work group: WG2009965
RDL: 0.02 mg/l

Standard ID	Mean signal (pk area) abs	Dilution	Result (mg/l)
0	0.000	1.0	0.0
0.02	0.059	1.0	0.020
0.05	0.150	1.0	0.050
0.1	0.300	1.0	0.099
0.3	0.915	1.0	0.300

Calibration Curve Volume(ml): 50

Slope	y-intercept
3.053883	-0.0022650

Correlation Coefficient 0.999985

ICV/LCS Concentration (mg/l) = 0.16

Reagents/Media Information

Material	Lot No.
ICV/LCS/CCV:	12/10/2024
MS:	12/12/2024
NED Reagent:	12/14/2024
Sulfanilamide:	11/23/2024
Filter Lot:	
Syringe Lot:	

Time	Date	Sample Number	Sample Volume (ml)	Final Volume (ml)	Absorbance	Dilution Factor	RESULT (mg/l)	RDL Multiplier	FINAL RESULT (mg N-NO2/L)	
8:23	12/14/2024	ICB	25	25	0.001	1	0.001	1	0.00	Recovery
8:23	12/14/2024	ICV	25	25	0.502	1	0.165	1	0.17	103%
8:23	12/14/2024	L2473162-01	25	25	0.000	1	0.001	1	0.00	
8:23	12/14/2024	L2473162-02	25	25	0.022	1	0.008	1	0.01	
8:23	12/14/2024	CCV	25	25	0.506	1	0.166	1	0.17	
8:23	12/14/2024	CCB	25	25	0.000	1	0.001	1	0.00	
						#DIV/0!		#DIV/0!		
						#DIV/0!		#DIV/0!		
8:23	12/14/2024	WG2009965-5	25	25	0.059	1	0.020	1	0.02	
						#DIV/0!		#DIV/0!		
						#DIV/0!		#DIV/0!		
						#DIV/0!		#DIV/0!		
						#DIV/0!		#DIV/0!		
						#DIV/0!		#DIV/0!		
						#DIV/0!		#DIV/0!		
						#DIV/0!		#DIV/0!		
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						#DIV/0!		#DIV/0!		
						#DIV/0!		#DIV/0!		
						#DIV/0!		#DIV/0!		
8:23	12/14/2024	WG2009965-1	25	25	0.001	1	0.001	1	0.00	
8:23	12/14/2024	WG2009965-3	25	25	0.000	1	0.001	1	0.00	L2473162-01

		Sample number	Sample volume	Final volume	Absorbance	Spike conc. mg/l	Sample Result mg/l	Dilution Factor	Spike Result mg/l	Recovery %
8:23	12/14/2024	WG2009965-4	25	25	0.306	0.10	0.00	1	0.10	101
8:23	12/14/2024	WG2009965-2	25	50	0.502	0.16		2	0.17	103%

COMMENTS & OBSERVATIONS	SAMPLE RESULTS
	ICB
	ICV
	L2473162-01
	L2473162-02
	CCV
	CCB
	0
	0
	WG2009965-5
	0
	0
	0
	0
	0
	0
	0
	0
	0
	0
	0
	0
	0
	0
	0
	0
BLANK	WG2009965-1
DUP	WG2009965-3

L2473162-01	25
LCS	0

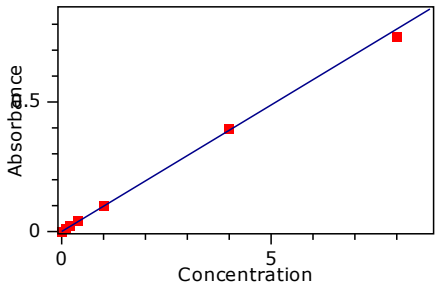
Graphical report generated by FIAsoft v3.1.10
Report generated on 2024-12-14 07:38:26
Data file (.dat): C:\FIAlab\Autosave Data\2024-12-14-073800.dat

Dataset Notes:

Analyst	

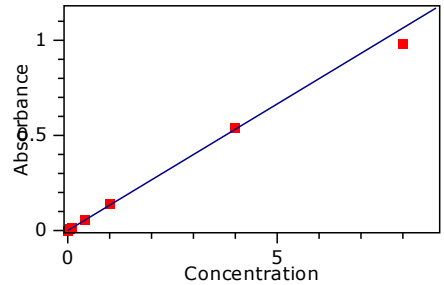
Dataset Notes Table Location: C:\FIAlab\FIAlab User Files\Tables\Dataset Notes\Analyst.csv

Calibrations:



Channel: 1-NOx
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00019
B: 0.09765
R^2: 0.99927
RSE(%): 3.01478
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
2	NOx 8.0ppm	0.74920	8.00000	7.67030	4.12	2024-12-14T05:09:30
3	NOx 4.0ppm	0.39640	4.00000	4.05780	1.44	2024-12-14T05:10:39
4	NOx 1.0ppm	0.09880	1.00000	1.00940	0.94	2024-12-14T05:11:46
5	NOx 0.4ppm	0.03960	0.40000	0.40350	0.87	2024-12-14T05:12:54
6	NOx 0.2ppm	0.02040	0.20000	0.20700	3.48	2024-12-14T05:14:03
7	NOx 0.1ppm	0.00980	0.10000	0.09810	1.88	2024-12-14T05:15:13
8	NOx 0.0ppm	0.00010	0.00000	-0.00140	NA	2024-12-14T05:16:23



Channel: 2-NO2
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00020
B: 0.13303
R^2: 0.99783
RSE(%): 5.49160
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
9	Nitrite 8.0ppm	0.98140	8.00000	7.37550	7.81	2024-12-14T05:17:20
10	Nitrite 4.0ppm	0.53910	4.00000	4.05100	1.28	2024-12-14T05:18:30
11	Nitrite 1.0ppm	0.14130	1.00000	1.06090	6.09	2024-12-14T05:19:35
12	Nitrite 0.4ppm	0.05570	0.40000	0.41740	4.35	2024-12-14T05:20:45
13	Nitrite 0.1ppm	0.01330	0.10000	0.09860	1.41	2024-12-14T05:21:55
14	Nitrite 0.05ppm	0.00690	0.05000	0.05000	0.02	2024-12-14T05:23:05
15	Nitrite 0.0ppm	0.00010	0.00000	-0.00060	NA	2024-12-14T05:24:17

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	-0.0006		2024-12-14T05:08:18
NOx 8.0ppm	2	Standard	8	0.7492	1	1	1	7.6703		2024-12-14T05:09:30
NOx 4.0ppm	3	Standard	4	0.3964	1	1	1	4.0578		2024-12-14T05:10:39
NOx 1.0ppm	4	Standard	1	0.0988	1	1	1	1.0094		2024-12-14T05:11:46
NOx 0.4ppm	5	Standard	0.4	0.0396	1	1	1	0.4035		2024-12-14T05:12:54
NOx 0.2ppm	6	Standard	0.2	0.0204	1	1	1	0.2070		2024-12-14T05:14:03
NOx 0.1ppm	7	Standard	0.1	0.0098	1	1	1	0.0981		2024-12-14T05:15:13
NOx 0.0ppm	8	Standard	0	0.0001	1	1	1	-0.0014		2024-12-14T05:16:23
Nitrite 8.0ppm	9	Standard	?	0.7572	1	1	1	7.7525	OVR	2024-12-14T05:17:33
Nitrite 4.0ppm	10	Standard	?	0.4053	1	1	1	4.1489		2024-12-14T05:18:43
Nitrite 1.0ppm	11	Standard	?	0.1039	1	1	1	1.0620		2024-12-14T05:19:50
Nitrite 0.4ppm	12	Standard	?	0.0405	1	1	1	0.4130		2024-12-14T05:20:58
Nitrite 0.1ppm	13	Standard	?	0.0097	1	1	1	0.0975		2024-12-14T05:22:08
Nitrite 0.05ppm	14	Standard	?	0.0051	1	1	1	0.0501		2024-12-14T05:23:18
Nitrite 0.0ppm	15	Standard	?	0.0001	1	1	1	-0.0013		2024-12-14T05:24:29
CCV NO3	16	QC	1	0.1004	1	1	1	1.0264		2024-12-14T05:25:35
CCV NO2	17	QC	?	0.1045	1	1	1	1.0684		2024-12-14T05:26:41
CCB	18	QC	0	0.0000	1	1	1	-0.0021		2024-12-14T05:27:25
ICV NO3 5.0	19	QC	5	0.4718	1	1	1	4.8301		2024-12-14T05:28:59
ICV NO2 5.0	20	QC	?	0.4772	1	1	1	4.8849		2024-12-14T05:30:07
ICV NO3 0.5	21	QC	0.5	0.0459	1	1	1	0.4683		2024-12-14T05:31:16
ICV NO2 0.5	22	QC	?	0.0480	1	1	1	0.4893		2024-12-14T05:32:24
ICB	23	QC	0	0.0000	1	1	1	-0.0019		2024-12-14T05:33:35
Diluter CHK 8PPM	24	Unknown	?	0.1565	1	5	1	8.0057		2024-12-14T05:34:42
BLANK NO3	25	Unknown	?	0.0000	1	1	1	-0.0024		2024-12-14T05:35:23
LCS NO3	26	Unknown	?	0.4736	1	1	1	4.8484		2024-12-14T05:36:57
BLANK NO2	27	Unknown	?	-0.0001	1	1	1	-0.0031		2024-12-14T05:37:35
LCS NO2	28	Unknown	?	0.4776	1	1	1	4.8893		2024-12-14T05:39:09
CCV NO3	29	QC	1	0.0984	1	1	1	1.0062		2024-12-14T05:40:15
CCV NO2	30	QC	?	0.1045	1	1	1	1.0681		2024-12-14T05:41:20
CCB	31	QC	0	0.0001	1	1	1	-0.0012		2024-12-14T05:42:32
WG2009134-1	32	Unknown	?	0.0000	1	1	1	-0.0016		2024-12-14T05:43:43

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
WG2009134-2	33	Unknown	?	0.4759	1	1	1	4.8720		2024-12-14T05:44:44
WG2009137-1	34	Unknown	?	-0.0002	1	1	1	-0.0038		2024-12-14T05:45:21
WG2009137-2	35	Unknown	?	0.4774	1	1	1	4.8874		2024-12-14T05:46:55
WG2009138-1	36	Unknown	?	-0.0001	1	1	1	-0.0033		2024-12-14T05:47:33
WG2009138-2	37	Unknown	?	0.4771	1	1	1	4.8835		2024-12-14T05:49:06
WG2009139-1	38	Unknown	?	-0.0001	1	1	1	-0.0031		2024-12-14T05:49:46
WG2009139-2	39	Unknown	?	0.4756	1	1	1	4.8682		2024-12-14T05:51:20
WG2009140-1;	40	Unknown	?	-0.0001	1	1	1	-0.0027		2024-12-14T05:51:59
WG2009140-2; WG2009144-2	41	Unknown	?	0.4702	1	1	1	4.8131		2024-12-14T05:53:33
CCV NO3	42	QC	1	0.0984	1	1	1	1.0052		2024-12-14T05:54:38
CCV NO2	43	QC	?	0.1042	1	1	1	1.0648		2024-12-14T05:55:44
CCB	44	QC	0	0.0001	1	1	1	-0.0010		2024-12-14T05:56:55
WG2009141-1; WG2009146-1	45	Unknown	?	0.0001	1	1	1	-0.0014		2024-12-14T05:58:05
WG2009141-2; WG2009146-2	46	Unknown	?	0.4713	1	1	1	4.8241		2024-12-14T05:59:11
WG2009142-1	47	Unknown	?	-0.0001	1	1	1	-0.0031		2024-12-14T05:59:48
WG2009142-2	48	Unknown	?	0.4732	1	1	1	4.8443		2024-12-14T06:01:22
WG2009143-1	49	Unknown	?	-0.0001	1	1	1	-0.0033		2024-12-14T06:01:58
WG2009143-2	50	Unknown	?	0.4732	1	1	1	4.8439		2024-12-14T06:03:31
L2473051-01	51	Unknown	?	0.1186	1	1	1	1.2124		2024-12-14T06:04:36
L2473051-02	52	Unknown	?	0.1890	1	1	1	1.9340		2024-12-14T06:05:41
L2473319-03	53	Unknown	?	0.0029	1	1	1	0.0274		2024-12-14T06:06:45
L2473319-04	54	Unknown	?	0.0042	1	1	1	0.0409		2024-12-14T06:07:49
CCV NO3	55	QC	1	0.0996	1	1	1	1.0183		2024-12-14T06:08:54
CCV NO2	56	QC	?	0.1038	1	1	1	1.0613		2024-12-14T06:09:59
CCB	57	QC	0	0.0001	1	1	1	-0.0007		2024-12-14T06:11:11
L2473383-01	58	Unknown	?	0.8265	1	1	1	8.4618	OVR	2024-12-14T06:12:19
WG2009139-3	59	Unknown	?	0.8279	1	1	1	8.4765	OVR	2024-12-14T06:13:28
WG2009139-4	60	Unknown	?	1.0839	1	1	1	11.0984	OVR	2024-12-14T06:14:34
WG2009134-3	61	Unknown	?	0.8310	1	1	1	8.5084	OVR	2024-12-14T06:15:41
WG2009134-4	62	Unknown	?	1.0895	1	1	1	11.1556	OVR	2024-12-14T06:16:47
L2473384-01	63	Unknown	?	1.3583	1	1	1	13.9078	OVR	2024-12-14T06:17:55

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2473385-01	64	Unknown	?	0.0179	1	1	1	0.1813		2024-12-14T06:18:59
WG2009139-5	65	Unknown	?	0.0214	1	1	1	0.2171		2024-12-14T06:20:04
WG2009139-6	66	Unknown	?	0.4095	1	1	1	4.1917		2024-12-14T06:21:10
WG2009134-5	67	Unknown	?	0.0202	1	1	1	0.2052		2024-12-14T06:22:15
CCV NO3	68	QC	1	0.1001	1	1	1	1.0231		2024-12-14T06:23:19
CCV NO2	69	QC	?	0.1037	1	1	1	1.0604		2024-12-14T06:24:25
CCB	70	QC	0	0.0000	1	1	1	-0.0017		2024-12-14T06:25:35
spacer	71	Unknown	?	0.0000	1	1	1	-0.0017		2024-12-14T06:41:24
spacer	72	Unknown	?	0.0010	1	1	1	0.0079		2024-12-14T06:42:56
L2473383-01	73	Unknown	?	0.0891	1	10	1	9.1031		2024-12-14T06:44:03
WG2009139-3	74	Unknown	?	0.0885	1	10	1	9.0398		2024-12-14T06:45:11
WG2009139-4	75	Unknown	?	0.1270	1	10	1	12.9849		2024-12-14T06:46:20
WG2009134-3	76	Unknown	?	0.0889	1	10	1	9.0803		2024-12-14T06:47:28
WG2009134-4	77	Unknown	?	0.1283	1	10	1	13.1179		2024-12-14T06:48:37
L2473384-01	78	Unknown	?	0.2503	1	10	1	25.6166		2024-12-14T06:49:45
L2473385-01	79	Unknown	?	0.0222	1	1	1	0.2251		2024-12-14T06:50:52
CCV NO3	80	QC	1	0.1006	1	1	1	1.0280		2024-12-14T06:51:57
CCV NO2	81	QC	?	0.1042	1	1	1	1.0653		2024-12-14T06:53:02
CCB	82	QC	0	0.0001	1	1	1	-0.0014		2024-12-14T06:54:15
WG2009134-6	83	Unknown	?	0.4148	1	1	1	4.2457		2024-12-14T06:55:21
L2473386-01	84	Unknown	?	0.6941	1	1	1	7.1062		2024-12-14T06:56:28
L2473389-01	85	Unknown	?	0.1406	1	1	1	1.4375		2024-12-14T06:57:33
L2473390-01	86	Unknown	?	1.0202	1	1	1	10.4454	OVR	2024-12-14T06:58:37
L2473447-01	87	Unknown	?	0.5209	1	1	1	5.3328		2024-12-14T06:59:41
L2473449-01	88	Unknown	?	0.1190	1	1	1	1.2168		2024-12-14T07:00:46
L2473477-01	89	Unknown	?	0.0011	1	1	1	0.0094		2024-12-14T07:01:53
L2473477-02	90	Unknown	?	0.2845	1	1	1	2.9111		2024-12-14T07:03:00
L2473477-03	91	Unknown	?	0.0012	1	1	1	0.0104		2024-12-14T07:04:06
L2473477-04	92	Unknown	?	0.1197	1	1	1	1.2243		2024-12-14T07:05:12
CCV NO3	93	QC	1	0.1009	1	1	1	1.0318		2024-12-14T07:06:17
CCV NO2	94	QC	?	0.1048	1	1	1	1.0711		2024-12-14T07:07:23
CCB	95	QC	0	0.0001	1	1	1	-0.0008		2024-12-14T07:08:34
L2473481-01	96	Unknown	?	1.1707	1	1	1	11.9866	OVR	2024-12-14T07:09:39

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2473481-02	97	Unknown	?	1.1996	1	1	1	12.2833	OVR	2024-12-14T07:10:45
L2473481-03	98	Unknown	?	0.1322	1	1	1	1.3515		2024-12-14T07:11:51
L2473556-01	99	Unknown	?	0.5932	1	1	1	6.0726		2024-12-14T07:12:56
L2473162-01	100	Unknown	?	0.0471	1	1	1	0.4800		2024-12-14T07:14:01
L2473162-02	101	Unknown	?	0.0309	1	1	1	0.3142		2024-12-14T07:15:06
L2473162-03	102	Unknown	?	0.1467	1	1	1	1.5006		2024-12-14T07:16:10
L2473162-04	103	Unknown	?	0.1512	1	1	1	1.5466		2024-12-14T07:17:15
L2473162-05	104	Unknown	?	0.1003	1	1	1	1.0251		2024-12-14T07:18:19
L2473162-06	105	Unknown	?	0.0663	1	1	1	0.6771		2024-12-14T07:19:23
CCV NO3	106	QC	1	0.1010	1	1	1	1.0325		2024-12-14T07:20:27
CCV NO2	107	QC	?	0.1053	1	1	1	1.0763		2024-12-14T07:21:33
CCB	108	QC	0	0.0002	1	1	1	-0.0003		2024-12-14T07:22:44
WG2009140-3; WG2009144-3	109	Unknown	?	0.0656	1	1	1	0.6694		2024-12-14T07:23:51
WG2009140-4; WG2009144-4	110	Unknown	?	0.4436	1	1	1	4.5411		2024-12-14T07:25:00
WG2009137-3	111	Unknown	?	0.0653	1	1	1	0.6667		2024-12-14T07:26:06
WG2009137-4	112	Unknown	?	0.4636	1	1	1	4.7457		2024-12-14T07:27:13
L2473162-07	113	Unknown	?	0.0645	1	1	1	0.6586		2024-12-14T07:28:19
L2473162-08	114	Unknown	?	0.4947	1	1	1	5.0644		2024-12-14T07:29:24
L2473162-09	115	Unknown	?	0.2321	1	1	1	2.3745		2024-12-14T07:30:30
L2473162-10	116	Unknown	?	0.0004	1	1	1	0.0020		2024-12-14T07:31:36
L2473323-01	117	Unknown	?	0.0024	1	1	1	0.0230		2024-12-14T07:32:42
L2473323-02	118	Unknown	?	0.0021	1	1	1	0.0197		2024-12-14T07:33:46
CCV NO3	119	QC	1	0.1006	1	1	1	1.0288		2024-12-14T07:34:51
CCV NO2	120	QC	?	0.1051	1	1	1	1.0741		2024-12-14T07:35:56
CCB	121	QC	0	0.0001	1	1	1	-0.0006		2024-12-14T07:37:07
L2473323-03	122	Unknown	?	0.0000	1	1	1	-0.0018		2024-12-14T07:37:49

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	-0.0010		2024-12-14T05:08:19
NOx 8.0ppm	2	Standard	?	0.0001	1	1	1	-0.0008		2024-12-14T05:09:18
NOx 4.0ppm	3	Standard	?	0.0001	1	1	1	-0.0006		2024-12-14T05:10:26

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
NOx 1.0ppm	4	Standard	?	0.0001	1	1	1	-0.0007		2024-12-14T05:12:21
NOx 0.4ppm	5	Standard	?	0.0002	1	1	1	0.0001		2024-12-14T05:12:38
NOx 0.2ppm	6	Standard	?	0.0002	1	1	1	-0.0001		2024-12-14T05:13:52
NOx 0.1ppm	7	Standard	?	0.0001	1	1	1	-0.0007		2024-12-14T05:14:57
NOx 0.0ppm	8	Standard	?	0.0001	1	1	1	-0.0009		2024-12-14T05:16:12
Nitrite 8.0ppm	9	Standard	8	0.9814	1	1	1	7.3755		2024-12-14T05:17:20
Nitrite 4.0ppm	10	Standard	4	0.5391	1	1	1	4.0510		2024-12-14T05:18:30
Nitrite 1.0ppm	11	Standard	1	0.1413	1	1	1	1.0609		2024-12-14T05:19:35
Nitrite 0.4ppm	12	Standard	0.4	0.0557	1	1	1	0.4174		2024-12-14T05:20:45
Nitrite 0.1ppm	13	Standard	0.1	0.0133	1	1	1	0.0986		2024-12-14T05:21:55
Nitrite 0.05ppm	14	Standard	0.05	0.0069	1	1	1	0.0500		2024-12-14T05:23:05
Nitrite 0.0ppm	15	Standard	0	0.0001	1	1	1	-0.0006		2024-12-14T05:24:17
CCV NO3	16	QC	?	0.0001	1	1	1	-0.0011		2024-12-14T05:25:27
CCV NO2	17	QC	1	0.1426	1	1	1	1.0706		2024-12-14T05:26:27
CCB	18	QC	0	0.0003	1	1	1	0.0008		2024-12-14T05:27:39
ICV NO3 5.0	19	QC	?	0.0009	1	1	1	0.0052		2024-12-14T05:28:46
ICV NO2 5.0	20	QC	5	0.6378	1	1	1	4.7925		2024-12-14T05:29:54
ICV NO3 0.5	21	QC	?	0.0008	1	1	1	0.0044		2024-12-14T05:31:05
ICV NO2 0.5	22	QC	0.5	0.0660	1	1	1	0.4948		2024-12-14T05:32:11
ICB	23	QC	0	0.0002	1	1	1	-0.0003		2024-12-14T05:33:21
Diluter CHK 8PPM	24	Unknown	?	0.0001	1	5	1	-0.0025		2024-12-14T05:34:29
BLANK NO3	25	Unknown	?	0.0001	1	1	1	-0.0008		2024-12-14T05:35:41
LCS NO3	26	Unknown	?	0.0008	1	1	1	0.0049		2024-12-14T05:36:43
BLANK NO2	27	Unknown	?	0.0001	1	1	1	-0.0009		2024-12-14T05:37:47
LCS NO2	28	Unknown	?	0.6365	1	1	1	4.7829		2024-12-14T05:38:55
CCV NO3	29	QC	?	0.0010	1	1	1	0.0058		2024-12-14T05:40:03
CCV NO2	30	QC	1	0.1420	1	1	1	1.0661		2024-12-14T05:41:06
CCB	31	QC	0	0.0003	1	1	1	0.0011		2024-12-14T05:42:18
WG2009134-1	32	Unknown	?	0.0001	1	1	1	-0.0008		2024-12-14T05:43:26
WG2009134-2	33	Unknown	?	0.6362	1	1	1	4.7810		2024-12-14T05:44:30
WG2009137-1	34	Unknown	?	0.0007	1	1	1	0.0039		2024-12-14T05:45:37
WG2009137-2	35	Unknown	?	0.6373	1	1	1	4.7890		2024-12-14T05:46:40
WG2009138-1	36	Unknown	?	0.0008	1	1	1	0.0044		2024-12-14T05:47:49

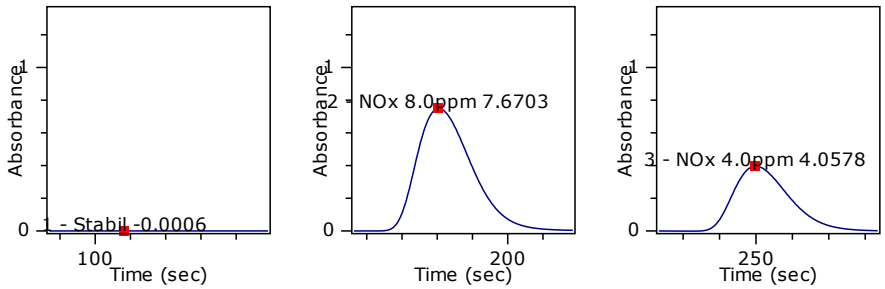
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
WG2009138-2	37	Unknown	?	0.6391	1	1	1	4.8023		2024-12-14T05:48:52
WG2009139-1	38	Unknown	?	0.0008	1	1	1	0.0047		2024-12-14T05:50:02
WG2009139-2	39	Unknown	?	0.0009	1	1	1	0.0054		2024-12-14T05:51:08
WG2009140-1;	40	Unknown	?	0.0001	1	1	1	-0.0009		2024-12-14T05:52:14
WG2009140-2; WG2009144-2	41	Unknown	?	0.0001	1	1	1	-0.0006		2024-12-14T05:53:18
CCV NO3	42	QC	?	0.0001	1	1	1	-0.0010		2024-12-14T05:54:28
CCV NO2	43	QC	1	0.1419	1	1	1	1.0651		2024-12-14T05:55:30
CCB	44	QC	0	0.0004	1	1	1	0.0012		2024-12-14T05:56:42
WG2009141-1; WG2009146-1	45	Unknown	?	0.0001	1	1	1	-0.0010		2024-12-14T05:57:53
WG2009141-2; WG2009146-2	46	Unknown	?	0.0001	1	1	1	-0.0010		2024-12-14T05:58:59
WG2009142-1	47	Unknown	?	0.0000	1	1	1	-0.0012		2024-12-14T06:00:03
WG2009142-2	48	Unknown	?	0.0001	1	1	1	-0.0008		2024-12-14T06:01:08
WG2009143-1	49	Unknown	?	0.0000	1	1	1	-0.0012		2024-12-14T06:02:14
WG2009143-2	50	Unknown	?	0.0001	1	1	1	-0.0007		2024-12-14T06:03:23
L2473051-01	51	Unknown	?	0.0012	1	1	1	0.0075		2024-12-14T06:04:22
L2473051-02	52	Unknown	?	0.0030	1	1	1	0.0209		2024-12-14T06:05:26
L2473319-03	53	Unknown	?	0.0034	1	1	1	0.0242		2024-12-14T06:06:31
L2473319-04	54	Unknown	?	0.0015	1	1	1	0.0095		2024-12-14T06:07:35
CCV NO3	55	QC	?	0.0001	1	1	1	-0.0011		2024-12-14T06:08:39
CCV NO2	56	QC	1	0.1403	1	1	1	1.0533		2024-12-14T06:09:45
CCB	57	QC	0	0.0003	1	1	1	0.0006		2024-12-14T06:11:00
L2473383-01	58	Unknown	?	0.0711	1	1	1	0.5327		2024-12-14T06:12:06
WG2009139-3	59	Unknown	?	0.0698	1	1	1	0.5233		2024-12-14T06:13:14
WG2009139-4	60	Unknown	?	0.0714	1	1	1	0.5349		2024-12-14T06:14:21
WG2009134-3	61	Unknown	?	0.0712	1	1	1	0.5338		2024-12-14T06:15:27
WG2009134-4	62	Unknown	?	0.5890	1	1	1	4.4264		2024-12-14T06:16:33
L2473384-01	63	Unknown	?	0.0031	1	1	1	0.0219		2024-12-14T06:17:38
L2473385-01	64	Unknown	?	0.0116	1	1	1	0.0859		2024-12-14T06:18:45
WG2009139-5	65	Unknown	?	0.0109	1	1	1	0.0806		2024-12-14T06:19:50
WG2009139-6	66	Unknown	?	0.0153	1	1	1	0.1137		2024-12-14T06:20:56
WG2009134-5	67	Unknown	?	0.0108	1	1	1	0.0800		2024-12-14T06:22:00

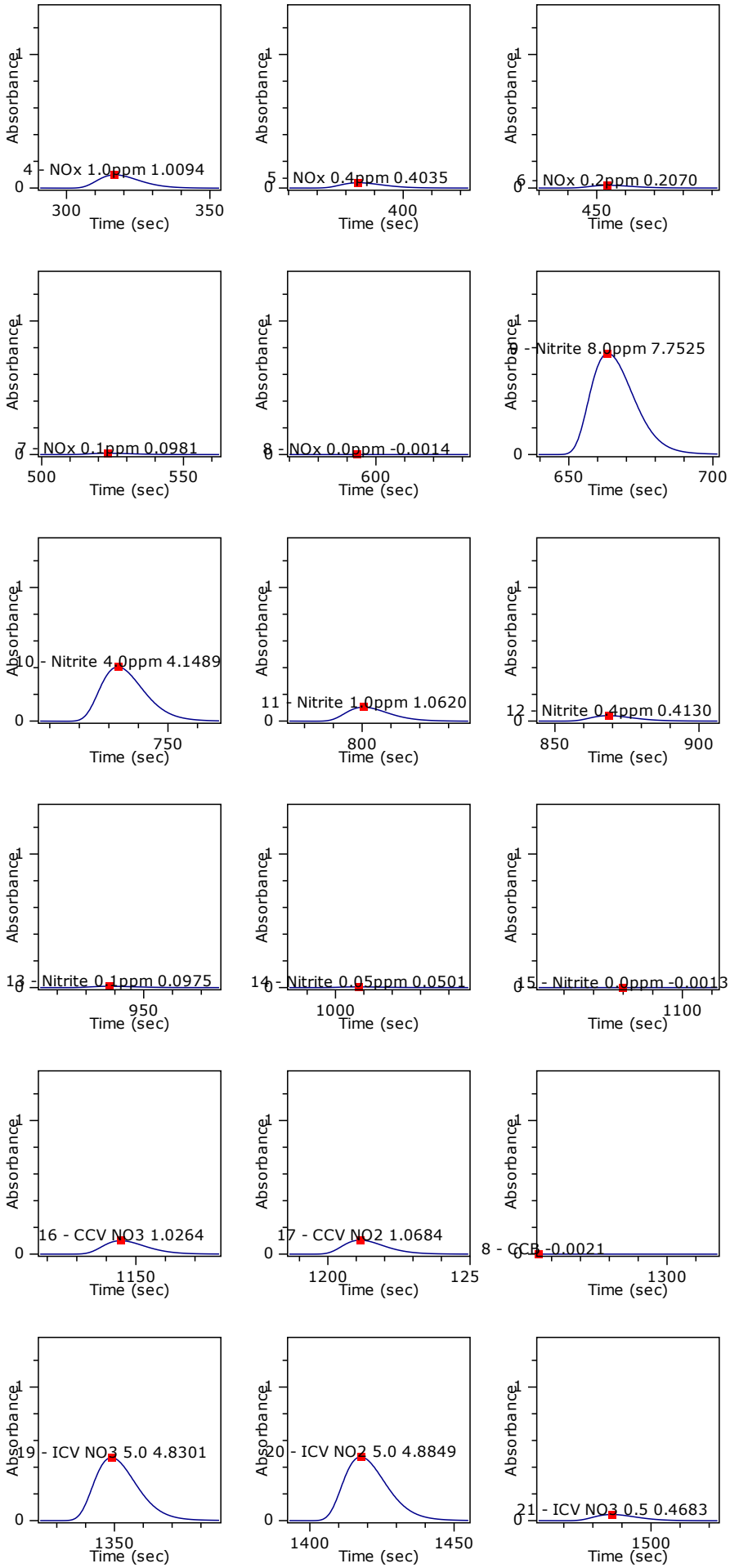
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
CCV NO3	68	QC	?	0.0001	1	1	1	-0.0007		2024-12-14T06:23:05
CCV NO2	69	QC	1	0.1413	1	1	1	1.0605		2024-12-14T06:24:11
CCB	70	QC	0	0.0001	1	1	1	-0.0011		2024-12-14T06:25:26
spacer	71	Unknown	?	0.0001	1	1	1	-0.0010		2024-12-14T06:42:11
spacer	72	Unknown	?	0.0004	1	1	1	0.0017		2024-12-14T06:42:41
L2473383-01	73	Unknown	?	0.0072	1	10	1	0.5290		2024-12-14T06:43:51
WG2009139-3	74	Unknown	?	0.0071	1	10	1	0.5198		2024-12-14T06:44:59
WG2009139-4	75	Unknown	?	0.0074	1	10	1	0.5417		2024-12-14T06:46:08
WG2009134-3	76	Unknown	?	0.0072	1	10	1	0.5268		2024-12-14T06:47:16
WG2009134-4	77	Unknown	?	0.0616	1	10	1	4.6132		2024-12-14T06:48:24
L2473384-01	78	Unknown	?	0.0005	1	10	1	0.0191		2024-12-14T06:49:33
L2473385-01	79	Unknown	?	0.0119	1	1	1	0.0878		2024-12-14T06:50:38
CCV NO3	80	QC	?	0.0000	1	1	1	-0.0012		2024-12-14T06:51:42
CCV NO2	81	QC	1	0.1429	1	1	1	1.0730		2024-12-14T06:52:49
CCB	82	QC	0	0.0001	1	1	1	-0.0006		2024-12-14T06:53:59
WG2009134-6	83	Unknown	?	0.5501	1	1	1	4.1336		2024-12-14T06:55:08
L2473386-01	84	Unknown	?	0.0079	1	1	1	0.0582		2024-12-14T06:56:14
L2473389-01	85	Unknown	?	0.1670	1	1	1	1.2534		2024-12-14T06:57:19
L2473390-01	86	Unknown	?	0.0022	1	1	1	0.0147		2024-12-14T06:58:23
L2473447-01	87	Unknown	?	0.0710	1	1	1	0.5323		2024-12-14T06:59:26
L2473449-01	88	Unknown	?	0.0217	1	1	1	0.1618		2024-12-14T07:00:34
L2473477-01	89	Unknown	?	0.0008	1	1	1	0.0044		2024-12-14T07:01:39
L2473477-02	90	Unknown	?	0.0011	1	1	1	0.0066		2024-12-14T07:02:47
L2473477-03	91	Unknown	?	0.0010	1	1	1	0.0061		2024-12-14T07:03:54
L2473477-04	92	Unknown	?	0.0011	1	1	1	0.0066		2024-12-14T07:05:00
CCV NO3	93	QC	?	0.0000	1	1	1	-0.0013		2024-12-14T07:06:09
CCV NO2	94	QC	1	0.1460	1	1	1	1.0963		2024-12-14T07:07:10
CCB	95	QC	0	0.0003	1	1	1	0.0010		2024-12-14T07:08:23
L2473481-01	96	Unknown	?	0.0011	1	1	1	0.0069		2024-12-14T07:09:27
L2473481-02	97	Unknown	?	0.0013	1	1	1	0.0086		2024-12-14T07:10:33
L2473481-03	98	Unknown	?	0.0011	1	1	1	0.0064		2024-12-14T07:11:38
L2473556-01	99	Unknown	?	0.2483	1	1	1	1.8651		2024-12-14T07:12:43
L2473162-01	100	Unknown	?	0.0008	1	1	1	0.0048		2024-12-14T07:13:48

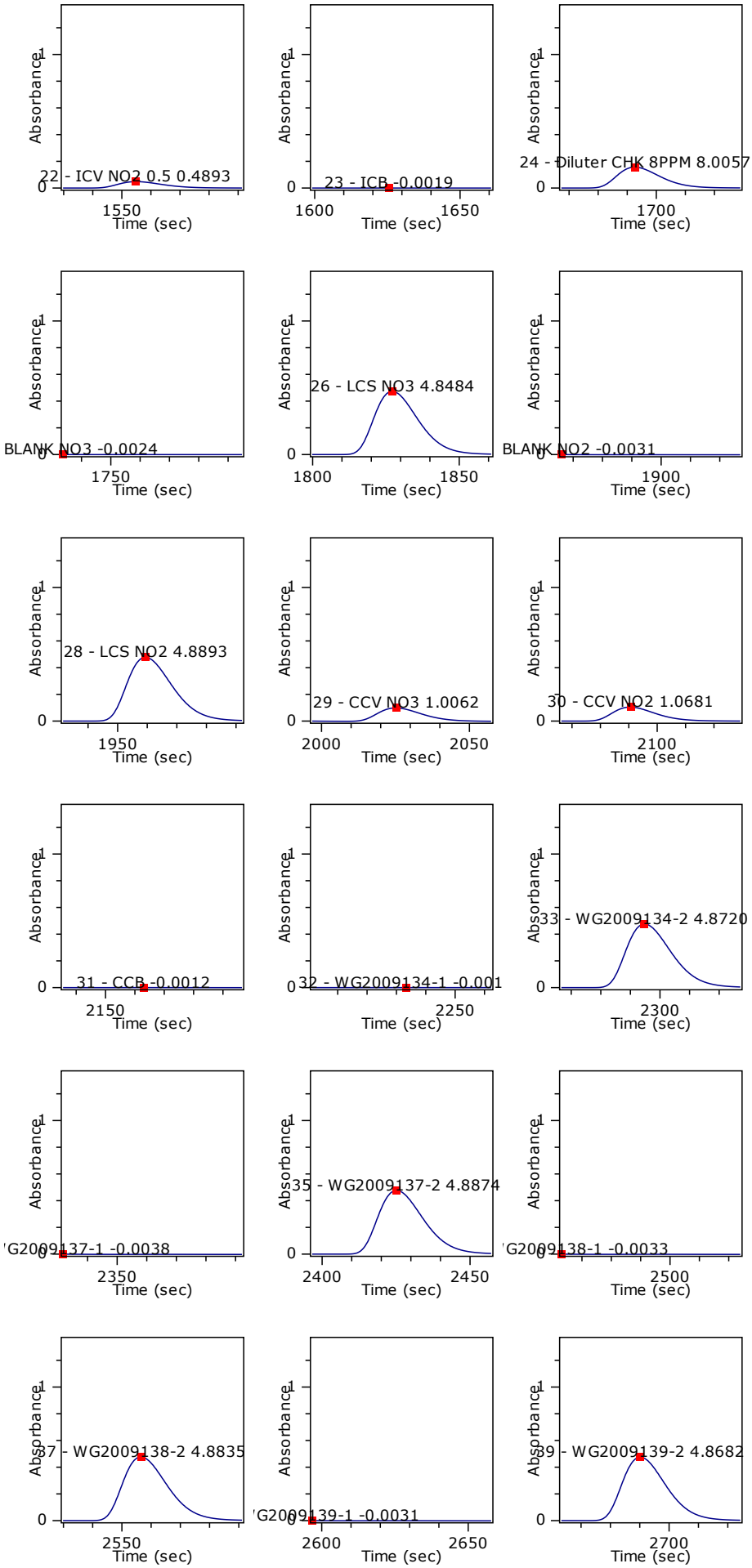
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2473162-02	101	Unknown	?	0.0009	1	1	1	0.0056		2024-12-14T07:14:52
L2473162-03	102	Unknown	?	0.0008	1	1	1	0.0047		2024-12-14T07:15:58
L2473162-04	103	Unknown	?	0.0010	1	1	1	0.0056		2024-12-14T07:17:02
L2473162-05	104	Unknown	?	0.0010	1	1	1	0.0062		2024-12-14T07:18:05
L2473162-06	105	Unknown	?	0.0011	1	1	1	0.0070		2024-12-14T07:19:11
CCV NO3	106	QC	?	0.0001	1	1	1	-0.0005		2024-12-14T07:20:16
CCV NO2	107	QC	1	0.1517	1	1	1	1.1391	QCR	2024-12-14T07:21:21
CCB	108	QC	0	0.0003	1	1	1	0.0009		2024-12-14T07:22:32
WG2009140-3; WG2009144-3	109	Unknown	?	0.0008	1	1	1	0.0046		2024-12-14T07:24:11
WG2009140-4; WG2009144-4	110	Unknown	?	0.0028	1	1	1	0.0194		2024-12-14T07:24:49
WG2009137-3	111	Unknown	?	0.0001	1	1	1	-0.0007		2024-12-14T07:25:56
WG2009137-4	112	Unknown	?	0.5675	1	1	1	4.2640		2024-12-14T07:27:02
L2473162-07	113	Unknown	?	0.0009	1	1	1	0.0049		2024-12-14T07:28:08
L2473162-08	114	Unknown	?	0.0008	1	1	1	0.0047		2024-12-14T07:29:14
L2473162-09	115	Unknown	?	0.0009	1	1	1	0.0054		2024-12-14T07:30:19
L2473162-10	116	Unknown	?	0.0009	1	1	1	0.0054		2024-12-14T07:31:25
L2473323-01	117	Unknown	?	0.0012	1	1	1	0.0074		2024-12-14T07:32:30
L2473323-02	118	Unknown	?	0.0009	1	1	1	0.0051		2024-12-14T07:33:35
CCV NO3	119	QC	?	0.0001	1	1	1	-0.0005		2024-12-14T07:34:45
CCV NO2	120	QC	1	0.1566	1	1	1	1.1756	QCR	2024-12-14T07:35:47
CCB	121	QC	0	0.0005	1	1	1	0.0019		2024-12-14T07:36:59
L2473323-03	122	Unknown	?	0.0000	1	1	1	-0.0012		2024-12-14T07:37:46

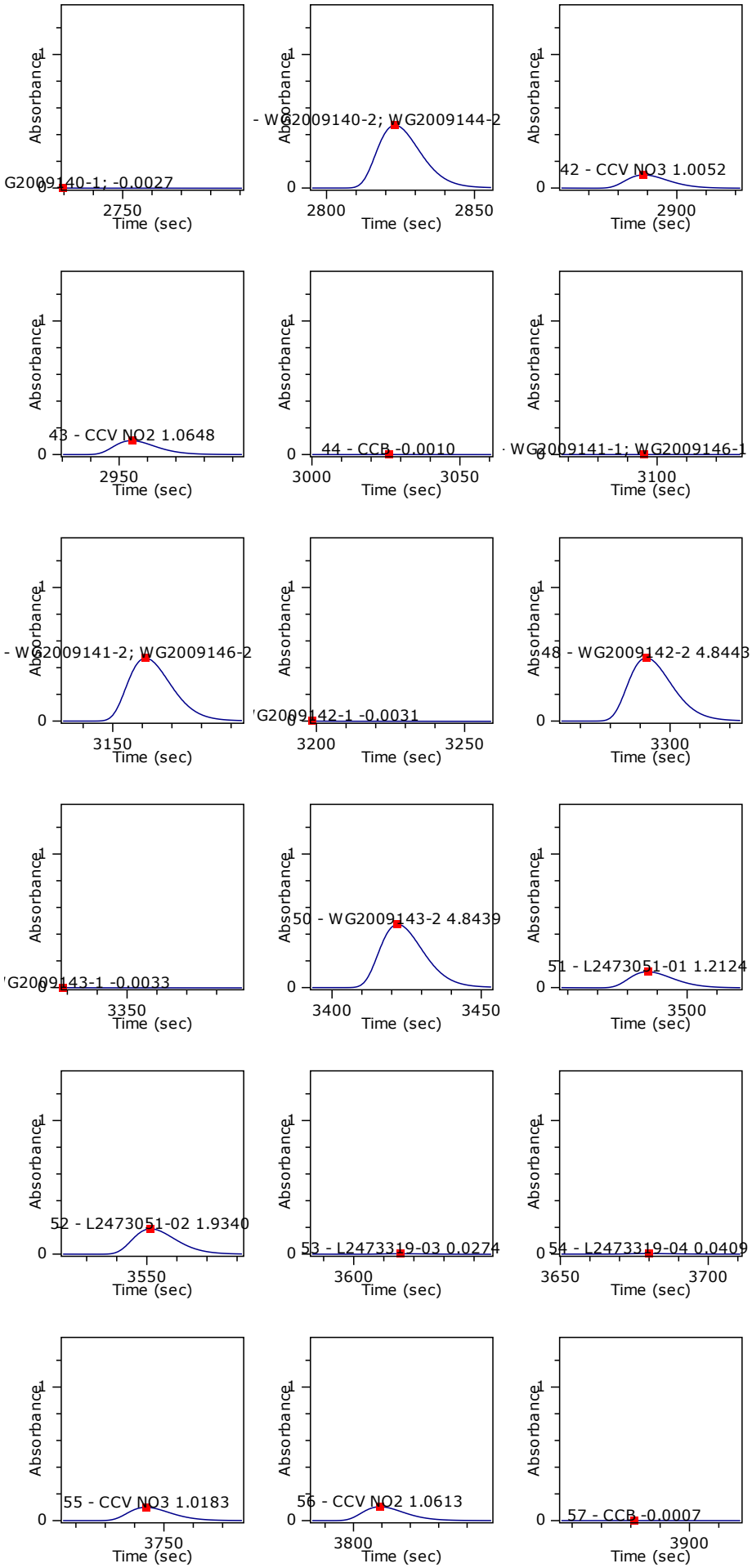
Peaks:

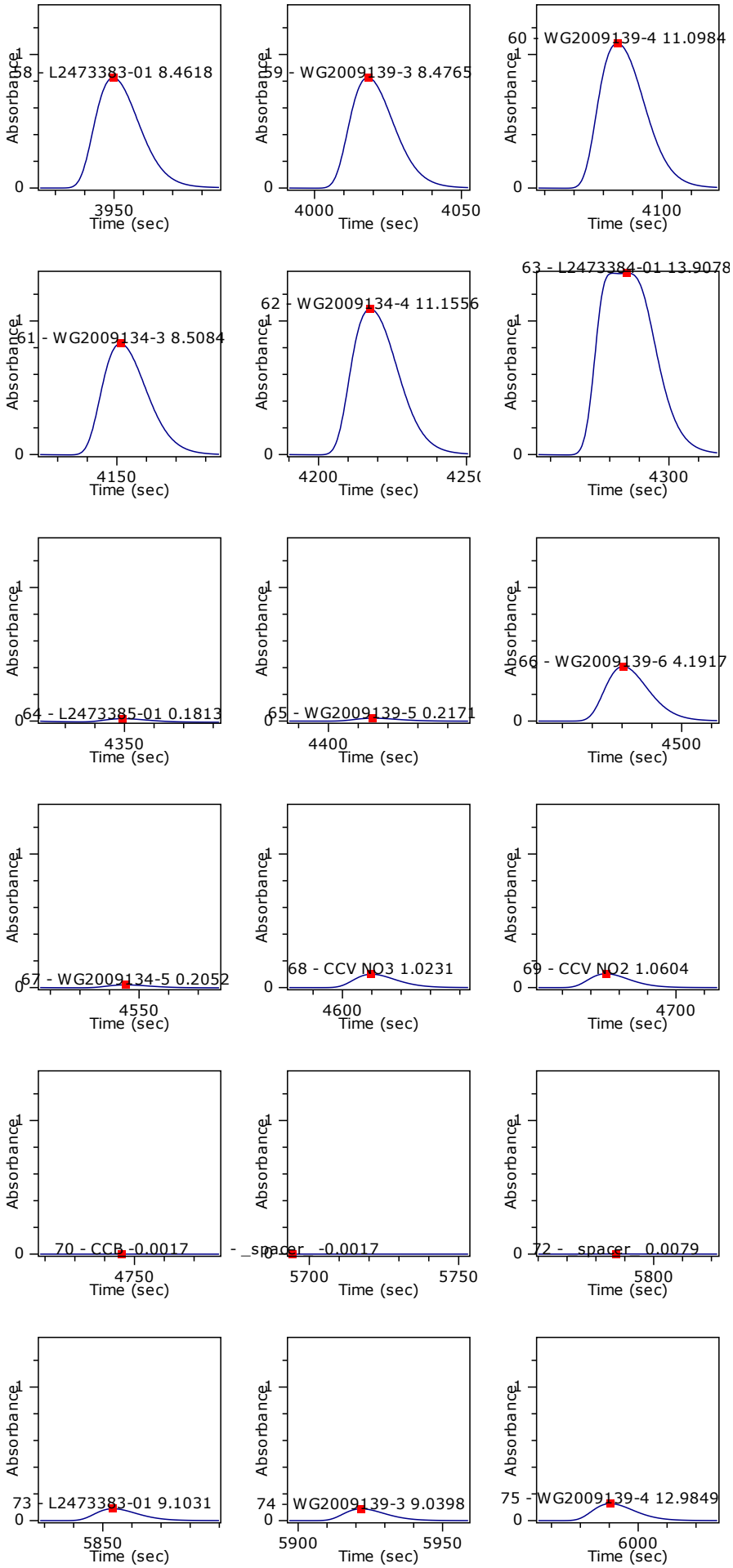
Channel: 1-NOx

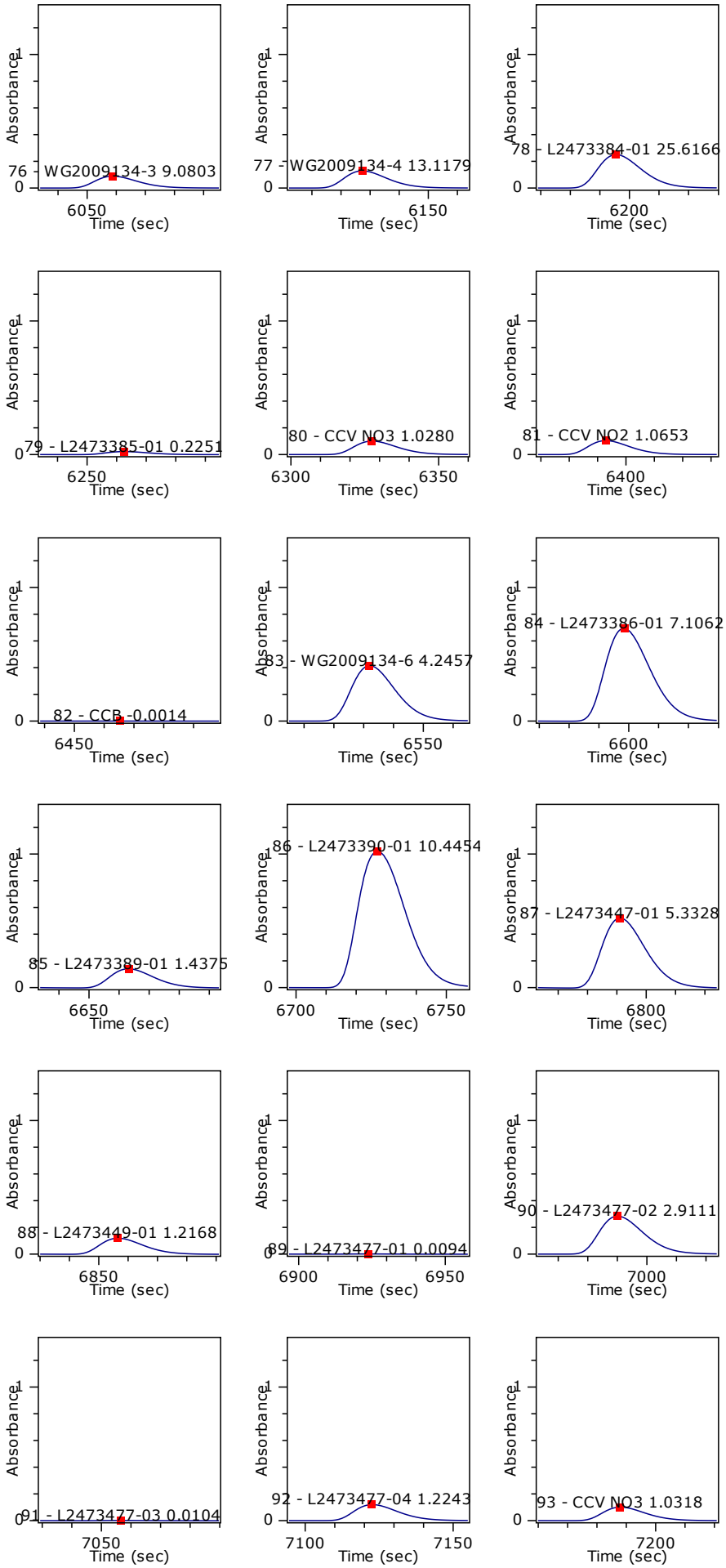


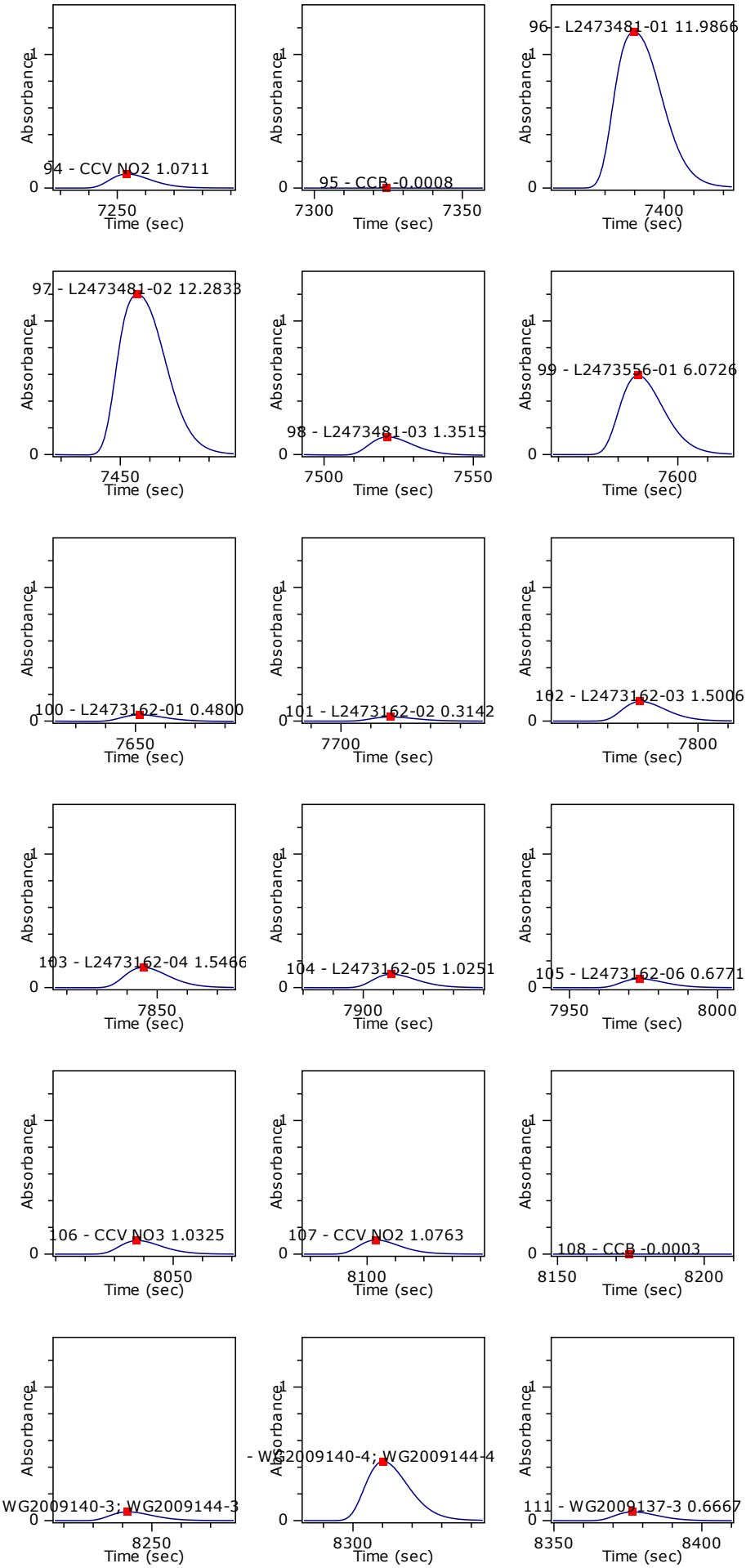

Absorbance
4 - NOx 1.0ppm 1.0094
Time (sec)
5 - NOx 0.4ppm 0.4035
6 - NOx 0.2ppm 0.2070
7 - NOx 0.1ppm 0.0981
8 - NOx 0.0ppm -0.0014
9 - Nitrite 8.0ppm 7.7525
10 - Nitrite 4.0ppm 4.1489
11 - Nitrite 1.0ppm 1.0620
12 - Nitrite 0.4ppm 0.4130
13 - Nitrite 0.1ppm 0.0975
14 - Nitrite 0.05ppm 0.0501
15 - Nitrite 0.0ppm -0.0013
16 - CCV NO3 1.0264
17 - CCV NO2 1.0684
18 - CCB -0.0021
19 - ICV NO3 5.0 4.8301
20 - ICV NO2 5.0 4.8849
21 - ICV NO3 0.5 0.4683

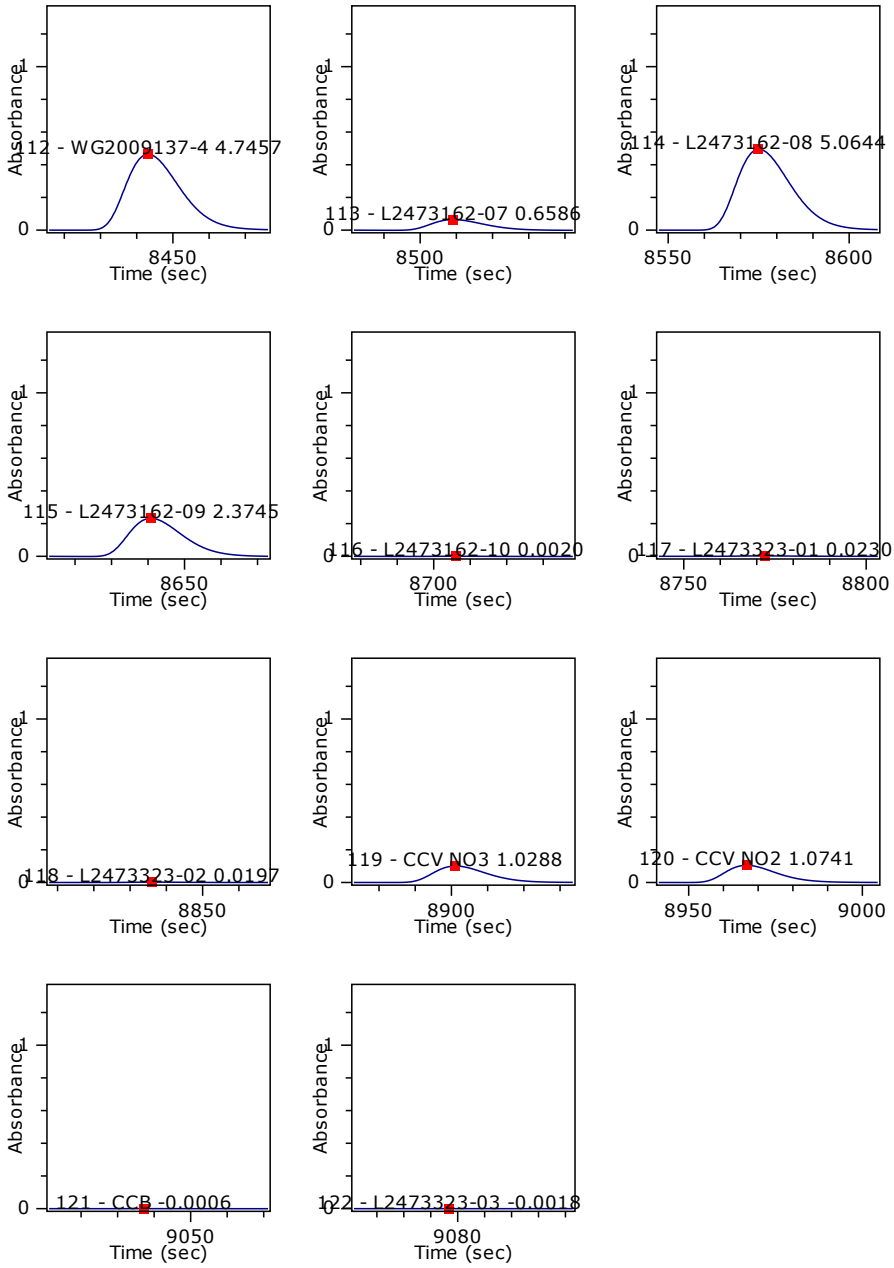

22 - ICV NO2 0.5 0.4893
23 - ICB -0.0019
24 - Diluter CHK 8PPM 8.0057
BLANK NO3 -0.0024
26 - LCS NO3 4.8484
BLANK NO2 -0.0031
28 - LCS NO2 4.8893
29 - CCV NO3 1.0062
30 - CCV NO2 1.0681
31 - CCB -0.0012
32 - WG2009134-1 -0.001
33 - WG2009134-2 4.8720
'G2009137-1 -0.0038
35 - WG2009137-2 4.8874
'G2009138-1 -0.0033
37 - WG2009138-2 4.8835
'G2009139-1 -0.0031
39 - WG2009139-2 4.8682
Absorbance
Time (sec)


Absorbance
Time (sec)
G2009140-1; -0.0027
- WG2009140-2; WG2009144-2
42 - CCV NO3 1.0052
43 - CCV NO2 1.0648
44 - CCB -0.0010
· WG2009141-1; WG2009146-1
- WG2009141-2; WG2009146-2
'G2009142-1 -0.0031
48 - WG2009142-2 4.8443
'G2009143-1 -0.0033
50 - WG2009143-2 4.8439
51 - L2473051-01 1.2124
52 - L2473051-02 1.9340
53 - L2473319-03 0.0274
54 - L2473319-04 0.0409
55 - CCV NO3 1.0183
56 - CCV NO2 1.0613
57 - CCB -0.0007

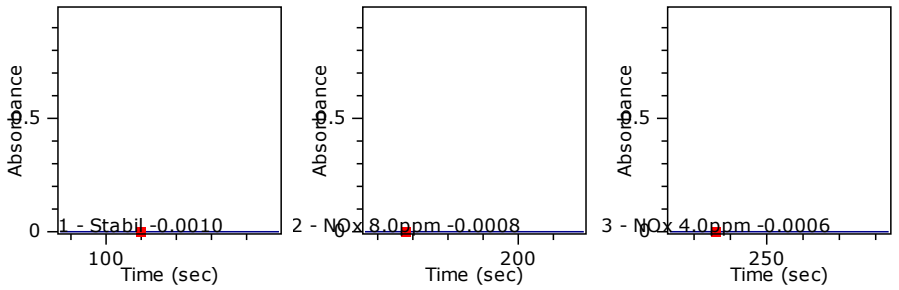

58 - L2473383-01 8.4618
59 - WG2009139-3 8.4765
60 - WG2009139-4 11.0984
61 - WG2009134-3 8.5084
62 - WG2009134-4 11.1556
63 - L2473384-01 13.9078
64 - L2473385-01 0.1813
65 - WG2009139-5 0.2171
66 - WG2009139-6 4.1917
67 - WG2009134-5 0.2052
68 - CCV NO3 1.0231
69 - CCV NO2 1.0604
70 - CCB -0.0017
- _spacer -0.0017
72 - _spacer 0.0079
73 - L2473383-01 9.1031
74 - WG2009139-3 9.0398
75 - WG2009139-4 12.9849
Absorbance
Time (sec)

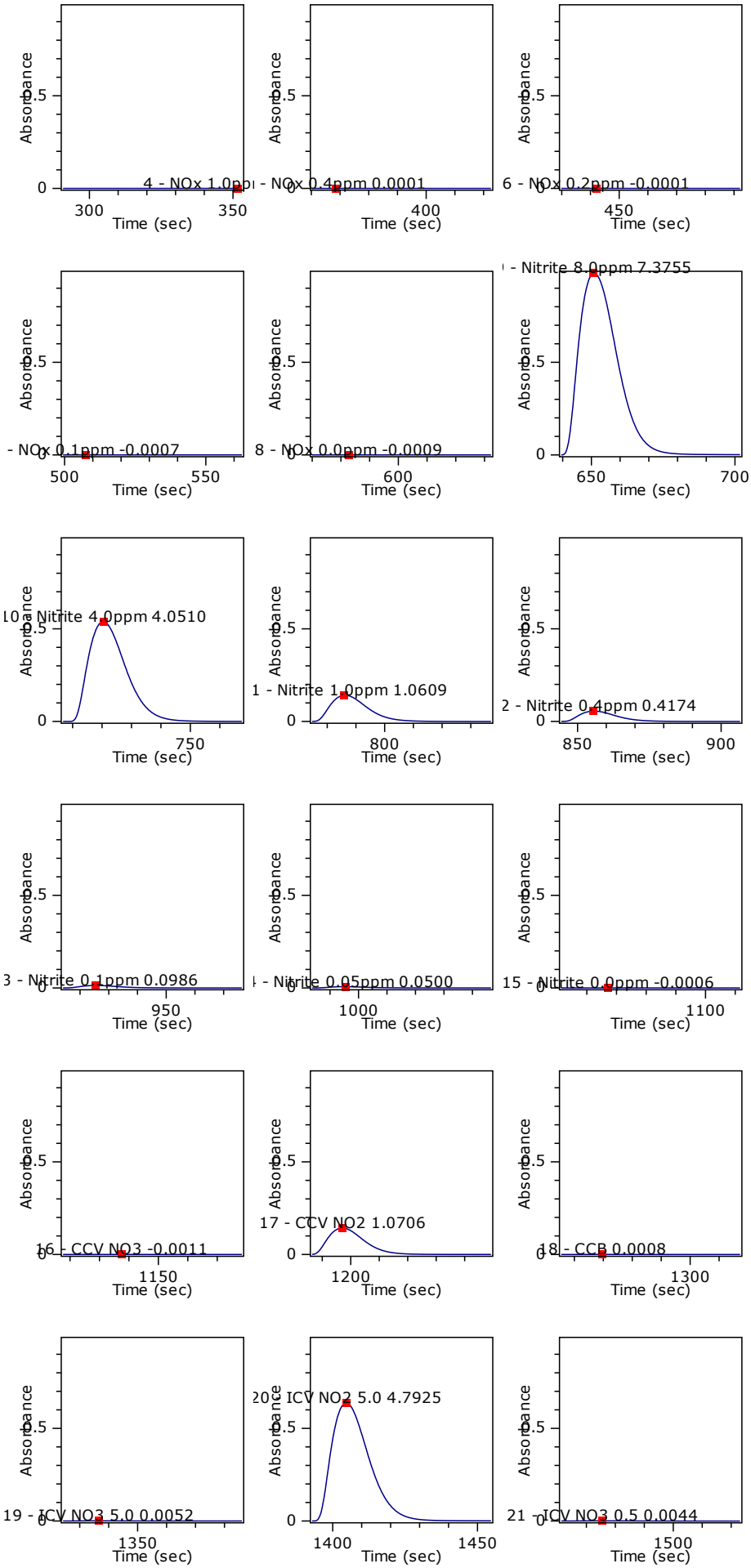

Absorbance
1
0
76 - WG2009134-3 9.0803
6050
Time (sec)
77 - WG2009134-4 13.1179
6150
78 - L2473384-01 25.6166
6200
79 - L2473385-01 0.2251
6250
80 - CCV NO3 1.0280
6300
6350
81 - CCV NO2 1.0653
6400
82 - CCB -0.0014
6450
83 - WG2009134-6 4.2457
6550
84 - L2473386-01 7.1062
6600
85 - L2473389-01 1.4375
6650
86 - L2473390-01 10.4454
6700
6750
87 - L2473447-01 5.3328
6800
88 - L2473449-01 1.2168
6850
89 - L2473477-01 0.0094
6900
6950
90 - L2473477-02 2.9111
7000
91 - L2473477-03 0.0104
7050
92 - L2473477-04 1.2243
7100
7150
93 - CCV NO3 1.0318
7200

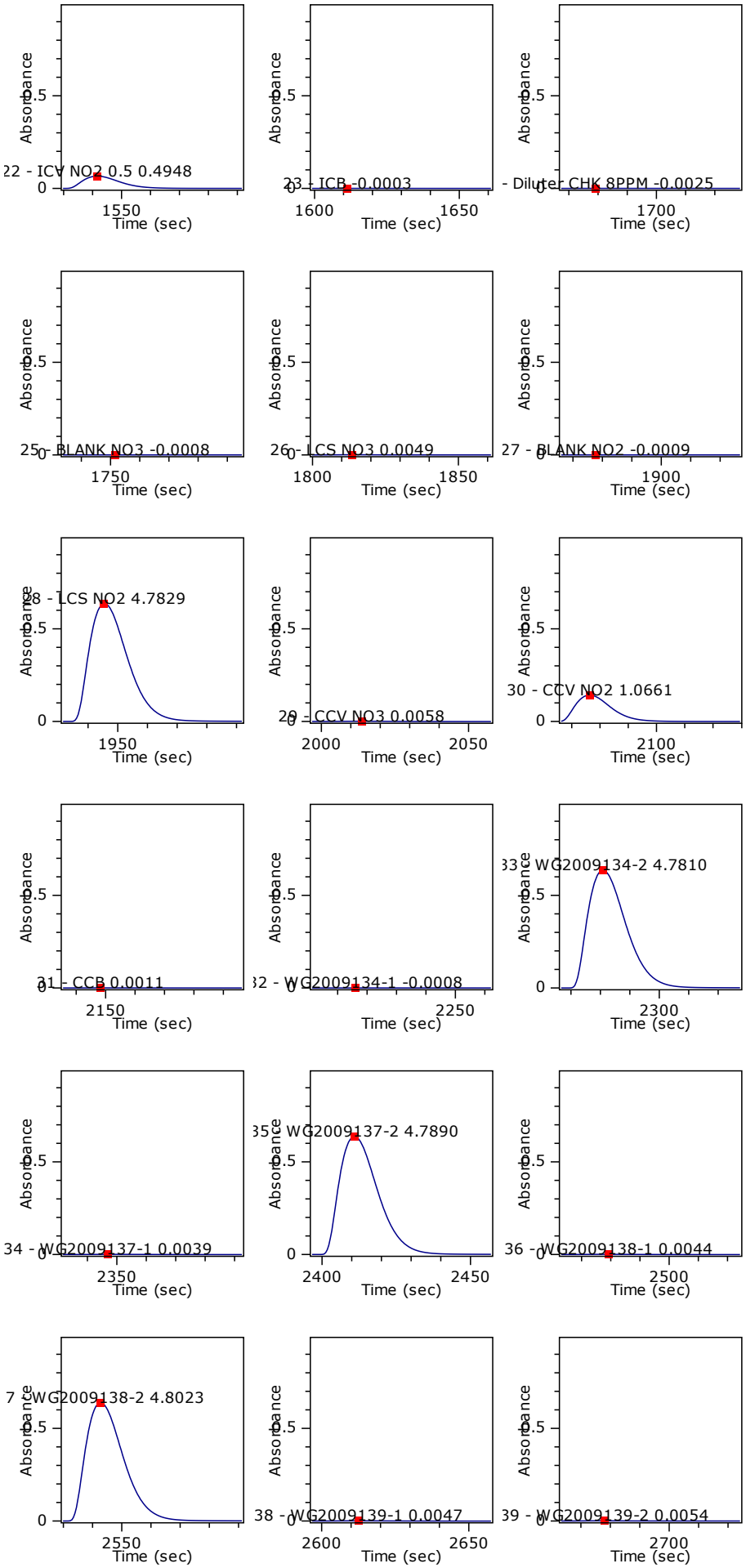

94 - CCV NO2 1.0711
95 - CCB -0.0008
96 - L2473481-01 11.9866
97 - L2473481-02 12.2833
98 - L2473481-03 1.3515
99 - L2473556-01 6.0726
100 - L2473162-01 0.4800
101 - L2473162-02 0.3142
102 - L2473162-03 1.5006
103 - L2473162-04 1.5466
104 - L2473162-05 1.0251
105 - L2473162-06 0.6771
106 - CCV NO3 1.0325
107 - CCV NO2 1.0763
108 - CCB -0.0003
WG2009140-3; WG2009144-3
- WG2009140-4; WG2009144-4
111 - WG2009137-3 0.6667
Absorbance
Time (sec)

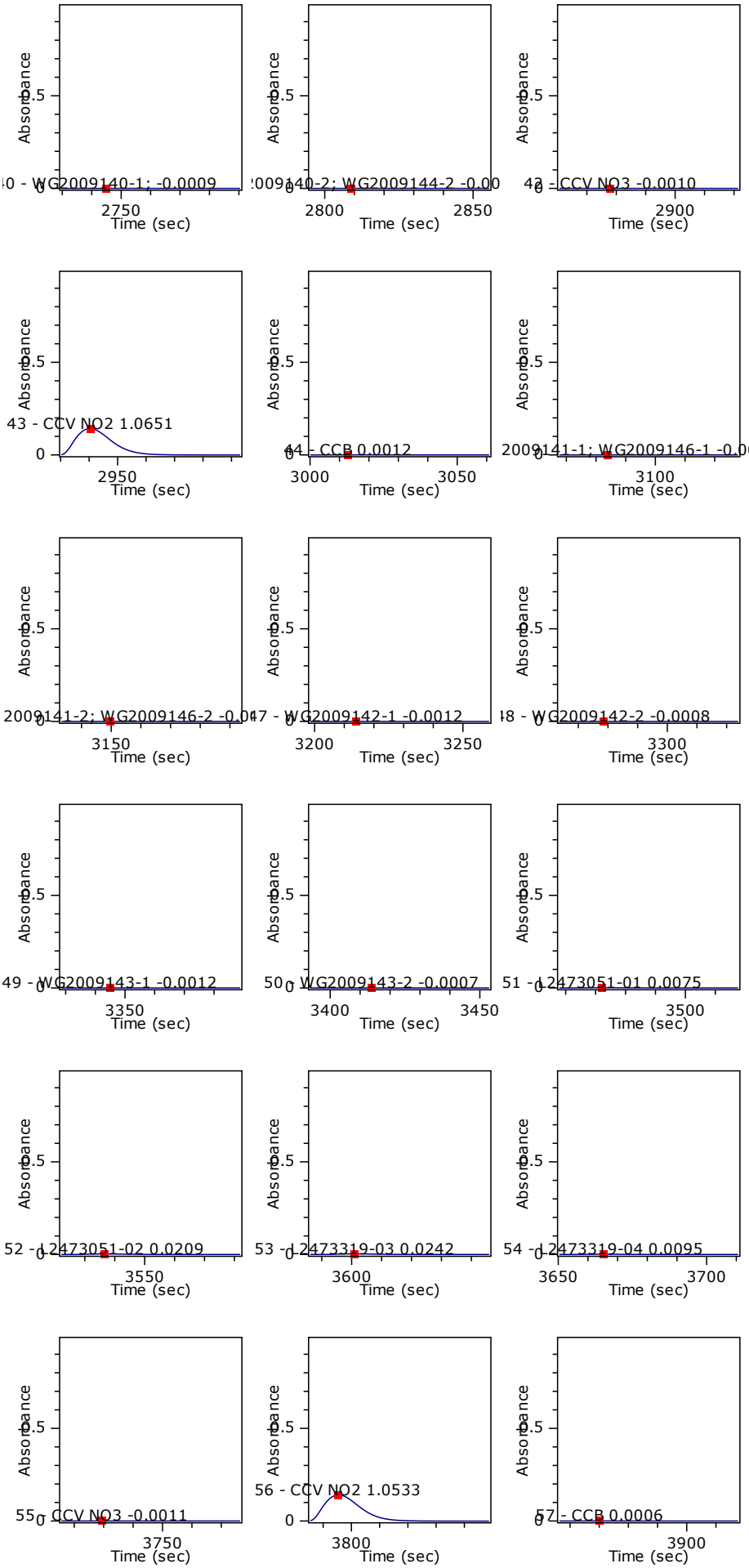


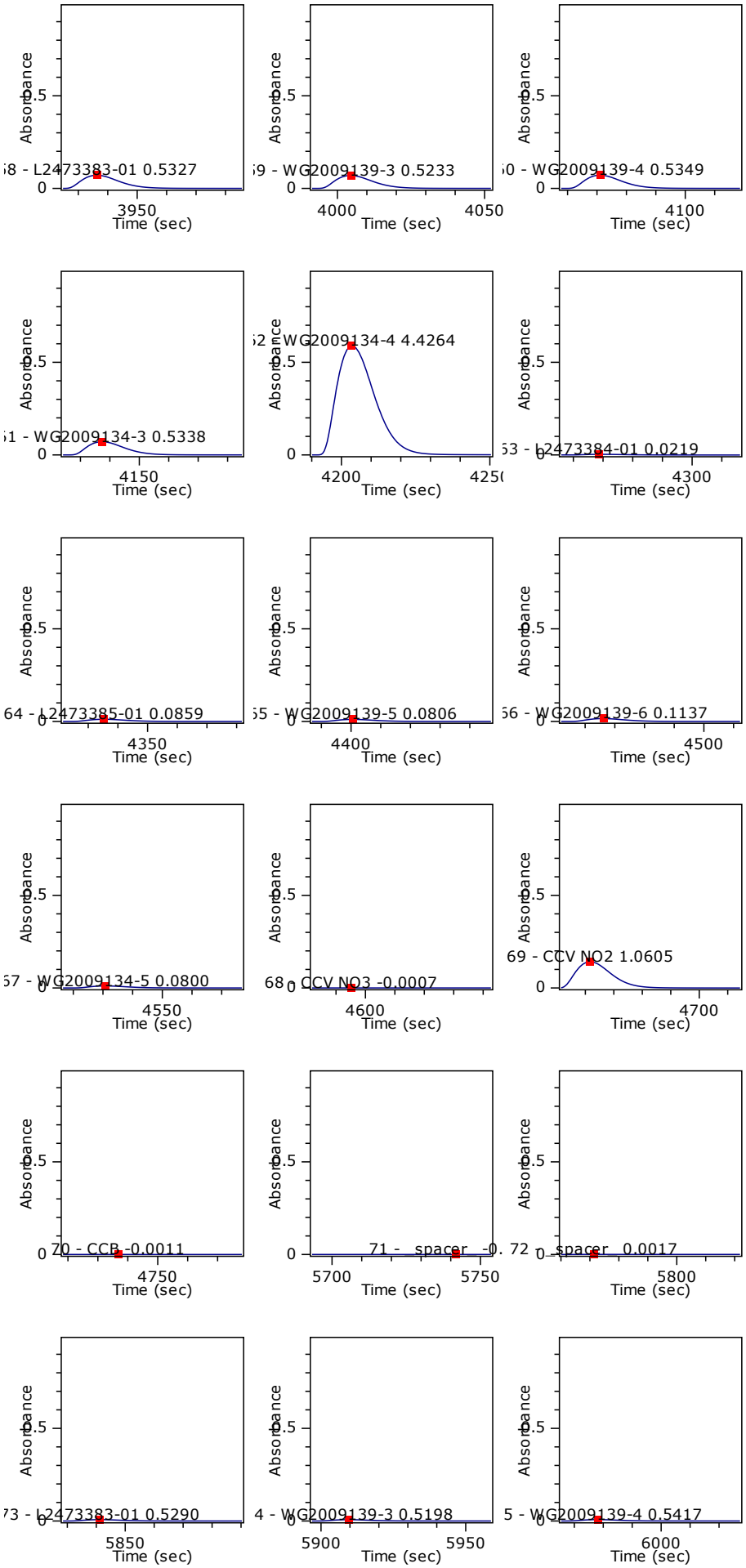
Channel: 2-NO2

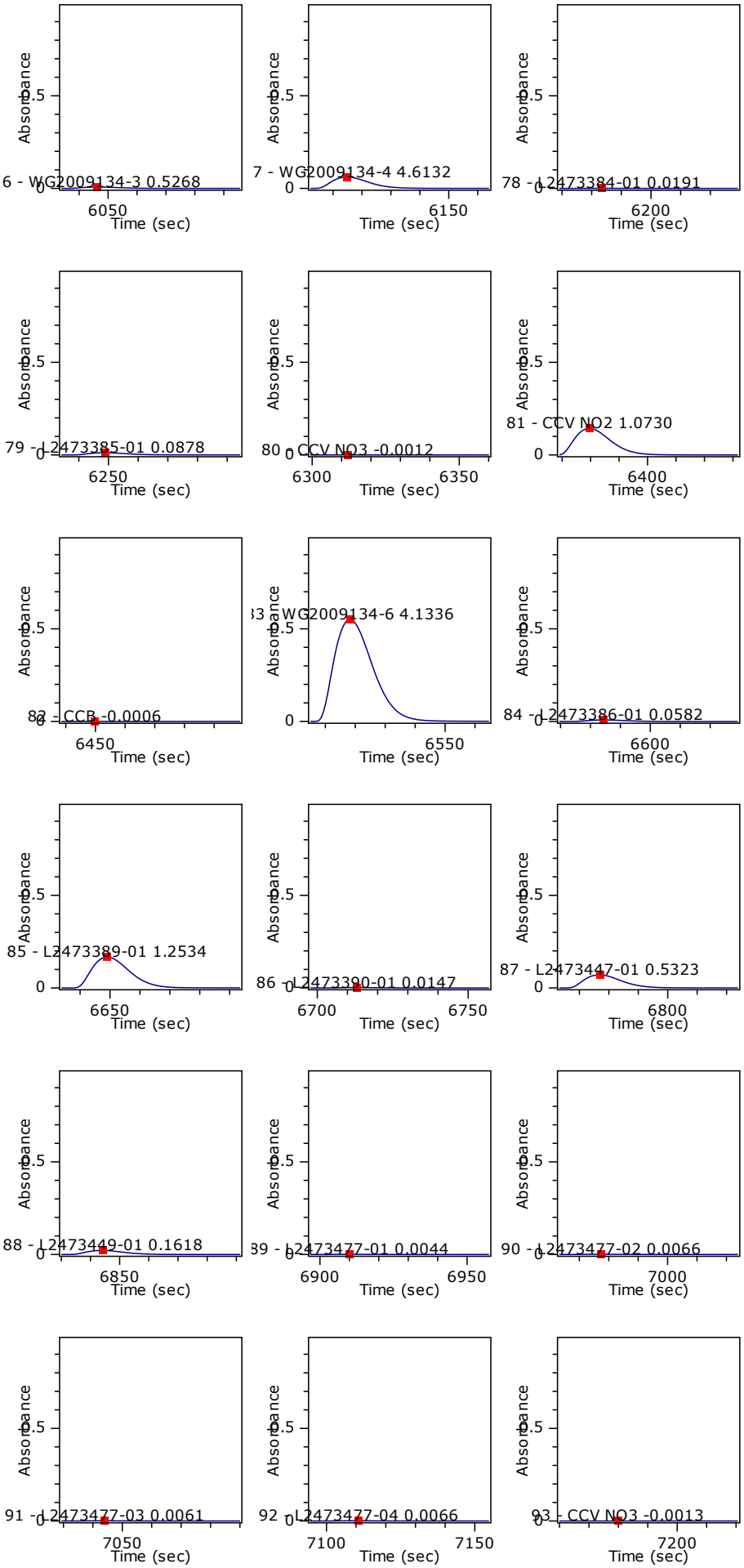


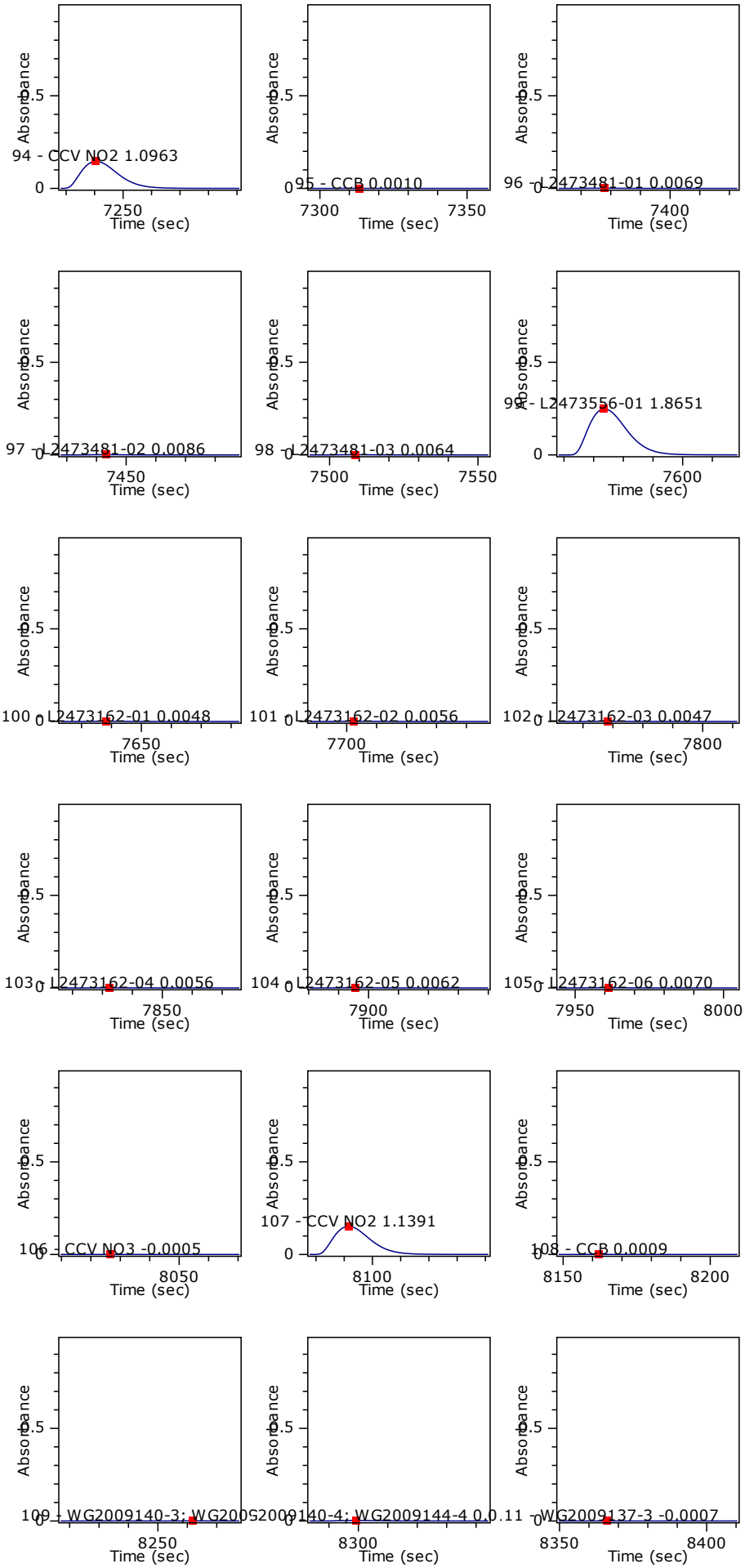

4 - NOx 1.0ppm
5 - NOx 0.4ppm 0.0001
6 - NOx 0.2ppm -0.0001
- NOx 0.1ppm -0.0007
8 - NOx 0.0ppm -0.0009
- Nitrite 8.0ppm 7.3755
10 - Nitrite 4.0ppm 4.0510
11 - Nitrite 1.0ppm 1.0609
12 - Nitrite 0.4ppm 0.4174
13 - Nitrite 0.1ppm 0.0986
14 - Nitrite 0.05ppm 0.0500
15 - Nitrite 0.0ppm -0.0006
16 - CCV NO3 -0.0011
17 - CCV NO2 1.0706
18 - CCB 0.0008
19 - ICV NO3 5.0 0.0052
20 - ICV NO2 5.0 4.7925
21 - ICV NO3 0.5 0.0044
Absorbance
Time (sec)

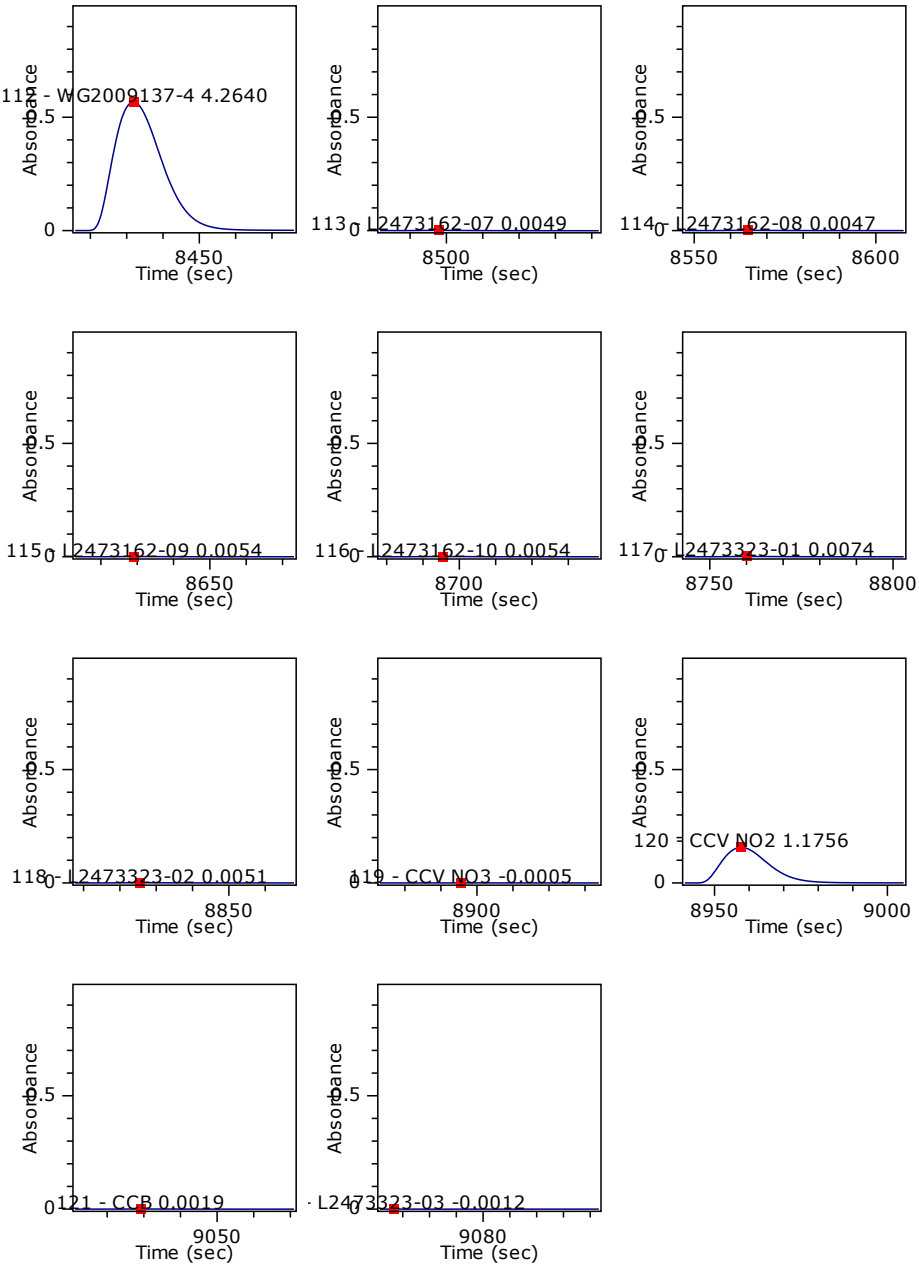

22 - ICV NO2 0.5 0.4948
23 - ICB -0.0003
- Diluter CHK 8PPM -0.0025
25 - BLANK NO3 -0.0008
26 - LCS NO3 0.0049
27 - BLANK NO2 -0.0009
28 - LCS NO2 4.7829
29 - CCV NO3 0.0058
30 - CCV NO2 1.0661
31 - CCB 0.0011
32 - WG2009134-1 -0.0008
33 - WG2009134-2 4.7810
35 - WG2009137-2 4.7890
34 - WG2009137-1 0.0039
36 - WG2009138-1 0.0044
7 - WG2009138-2 4.8023
38 - WG2009139-1 0.0047
39 - WG2009139-2 0.0054
Absorbance
Time (sec)


Absorbance
Time (sec)
0 - WG2009140-1; -0.0009
2009140-2; WG2009144-2 -0.00
42 - CCV NO3 -0.0010
43 - CCV NO2 1.0651
44 - CCB 0.0012
2009141-1; WG2009146-1 -0.0
2009141-2; WG2009146-2 -0.0
47 - WG2009142-1 -0.0012
48 - WG2009142-2 -0.0008
49 - WG2009143-1 -0.0012
50 - WG2009143-2 -0.0007
51 - L2473051-01 0.0075
52 - L2473051-02 0.0209
53 - L2473319-03 0.0242
54 - L2473319-04 0.0095
55 - CCV NO3 -0.0011
56 - CCV NO2 1.0533
57 - CCB 0.0006


Absorbance
Time (sec)
8 - L2473383-01 0.5327
9 - WG2009139-3 0.5233
0 - WG2009139-4 0.5349
1 - WG2009134-3 0.5338
2 - WG2009134-4 4.4264
3 - L2473384-01 0.0219
64 - L2473385-01 0.0859
5 - WG2009139-5 0.0806
6 - WG2009139-6 0.1137
7 - WG2009134-5 0.0800
68 - CCV NO3 -0.0007
69 - CCV NO2 1.0605
70 - CCB -0.0011
71 - spacer -0.
72 - spacer 0.0017
73 - L2473383-01 0.5290
4 - WG2009139-3 0.5198
5 - WG2009139-4 0.5417


6 - WG2009134-3 0.5268
7 - WG2009134-4 4.6132
78 - L2473384-01 0.0191
79 - L2473385-01 0.0878
80 - CCV NO3 -0.0012
81 - CCV NO2 1.0730
82 - CCB -0.0006
83 - WG2009134-6 4.1336
84 - L2473386-01 0.0582
85 - L2473389-01 1.2534
86 - L2473390-01 0.0147
87 - L2473447-01 0.5323
88 - L2473449-01 0.1618
89 - L2473477-01 0.0044
90 - L2473477-02 0.0066
91 - L2473477-03 0.0061
92 - L2473477-04 0.0066
93 - CCV NO3 -0.0013
Absorbance
Time (sec)


94 - CCV NO2 1.0963
95 - CCB 0.0010
96 - L2473481-01 0.0069
97 - L2473481-02 0.0086
98 - L2473481-03 0.0064
99 - L2473556-01 1.8651
100 - L2473162-01 0.0048
101 - L2473162-02 0.0056
102 - L2473162-03 0.0047
103 - L2473162-04 0.0056
104 - L2473162-05 0.0062
105 - L2473162-06 0.0070
106 - CCV NO3 -0.0005
107 - CCV NO2 1.1391
108 - CCB 0.0009
109 - WG2009140-3; WG2009140-4; WG2009144-4 0.0.11
WG2009137-3 -0.0007
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: 1.4
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Spectrometer2
------------
Spectrometer Type: tec5
Integration Time: 4.4
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Start Time
------------
2024-12-14T05:06:30

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

Original Run Filename: OM_12-14-2024_08-50-17AM.OMN Created: 12/14/2024 8:50:17 AM
Original Run Author's Signature: [A1wetcheminstrument]
Current Run Filename: OM_12-14-2024_08-50-17AM.OMN Last Modified: 12/14/2024 1:08:38 PM
Current Run Author's Signature: [A1wetcheminstrument]
Description: Default New Run

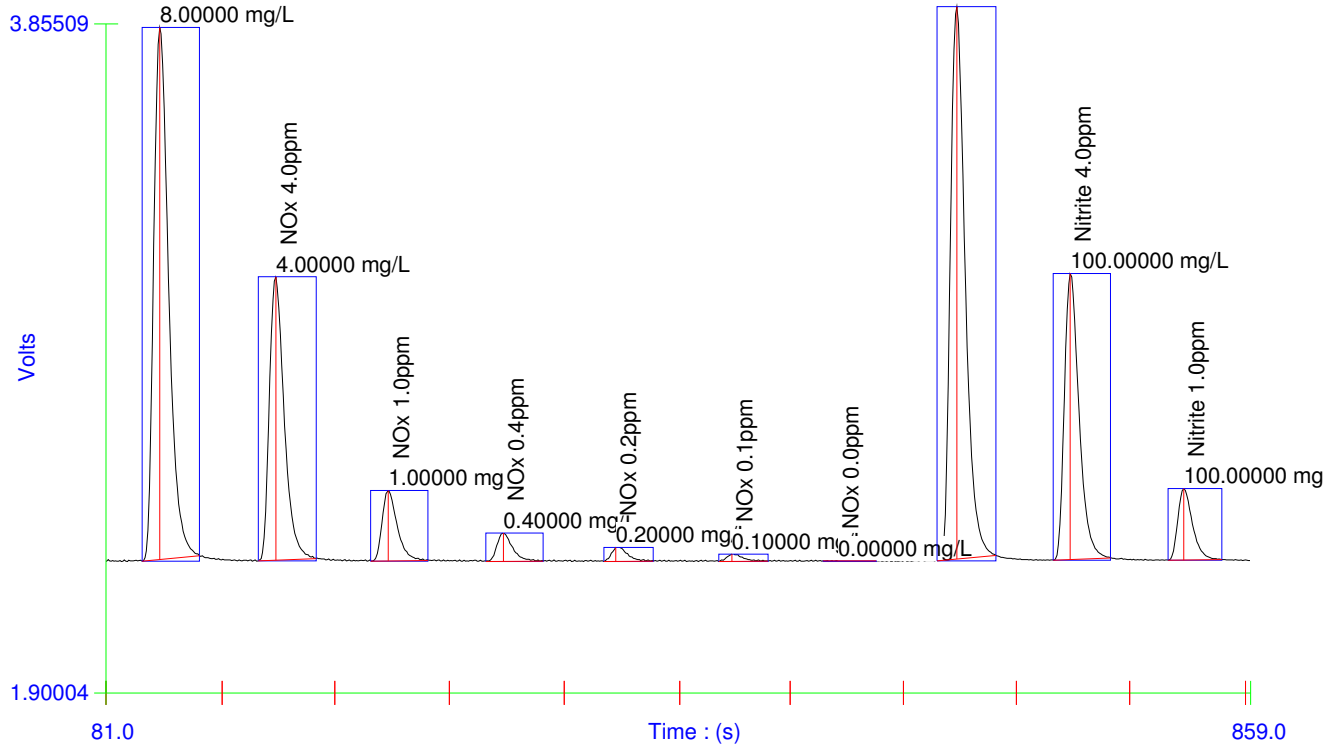
Sample	Rep.	Cup No.	Channel 1 NO3+NO2 (mg/L)	Channel 2 Nitrite (mg N/L)	ADF	MDF	Weight
NOx 8.0ppm	1	S3	8.00000	100.00000			
NOx 4.0ppm	1	S4	4.00000	100.00000			
NOx 1.0ppm	1	S2	1.00000	100.00000			
NOx 0.4ppm	1	S5	0.40000	100.00000			
NOx 0.2ppm	1	S6	0.20000	100.00000			
NOx 0.1ppm	1	S7	0.10000	100.00000			
NOx 0.0ppm	1	S1	0.00000	100.00000			
Nitrite 8.0ppm	1	S10	100.00000	8.00000			
Nitrite 4.0ppm	1	S11	100.00000	4.00000			
Nitrite 1.0ppm	1	S9	100.00000	1.00000			
Nitrite 0.4ppm	1	S12	100.00000	0.40000			
Nitrite 0.1ppm	1	S13	100.00000	0.10000			
Nitrite 0.05ppm	1	S14	100.00000	0.05000			
Nitrite 0.0ppm	1	S1	100.00000	0.00000			
CCV NO3	1	S2	1.01989	-0.00365			
	Known Conc:		1.00000	0.00000			
	Calibration:		Table/Fig. : 1	Table/Fig. : 2			
CCV NO2	1	S9	1.03340	1.04804			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	0.00322	-0.00324			
	Known Conc:		0.00000	0.00000			
ICV NO3 5.0	1	1	4.87770	-0.00240			
ICV NO2 5.0	1	2	4.93777	4.98870			
ICV NO3 0.5	1	3	0.47798	-0.01734			
ICV NO2 0.5	1	4	0.48466	0.49707			
ICB	1	5	-0.01322	-0.01281			
L2473323-02	1	70	0.01987	0.00504			
L2473162-03	1	57	1.49609	0.00389			
~~DILUTER CHK 8PPM~~	~~1~~	~~6~~	~~-0.07958~~	~~0.19049~~	~~5.00~~		
BLANK	1	7	-0.01150	-0.00729			
LCS	1	8	4.84232	0.00287			
CCV NO3	1	S2	1.02211	-0.00467			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.03279	1.06551			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00848	-0.00314			
	Known Conc:		0.00000	0.00000			
BLANK	1	9	-0.00023	-0.00063			
LCS	1	10	4.95176	5.03488			
~~L2473390-01~~	~~1~~	~~44~~	~~-0.12145~~	~~0.75759~~	~~5.00~~		
~~L2473447-01~~	~~1~~	~~45~~	~~5.48314~~	~~0.53719~~			
L2473162-01	1	55	0.49186	0.00175			
L2473162-02	1	56	0.32862	0.00562			
L2473162-04	1	58	1.60556	0.00620			
L2473162-05	1	59	1.03548	0.00498			
L2473162-06	1	60	0.67583	0.00543			
WG2009140-3; WG2009144-3	1	61	0.66305	-0.00796			
CCV NO3	1	S2	1.02502	-0.00133			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.04866	1.06860			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00656	-0.00823			
	Known Conc:		0.00000	0.00000			
~~DILUTER CHK 8PPM~~	~~1~~	~~6~~	~~4.38404~~	~~-0.00851~~	~~5.00~~		
~~L2473390-01~~	~~1~~	~~44~~	~~-0.12479~~	~~0.26208~~	~~5.00~~		
~~WG2009140-4; WG2009144-4~~	~~1~~	~~62~~	~~-0.02298~~	~~0.02970~~			
WG2009137-3	1	63	0.66283	-0.00291			
WG2009137-4	1	64	4.73773	4.14598			
WG2009140-4; WG2009144-4	1	62	4.55492	0.02406			

L2473390-01D; 1 YP TO 5	1	121	-0.12961	-0.19650		5.00	
L2473162-07	1	65	0.65667	0.00463			
L2473390-01D; 1 YP TO 5	1	121	11.97120	0.00419		5.00	
L2473162-08	1	66	5.14814	0.00361			
CCV NO3	1	S2	1.02884	-0.00076			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.03859	1.07040			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01281	-0.00721			
	Known Conc:		0.00000	0.00000			
L2473162-09	1	67	2.37031	0.00226			
L2473162-10	1	68	0.01226	0.00402			
L2473323-01	1	69	0.02632	0.00335			
L2473323-03	1	71	0.04919	-0.00261			
L2473323-04	1	72	0.05565	0.00288			
L2473323-05	1	73	0.06203	0.00282			
L2473210-01	1	74	0.13514	0.06499			
WG2009143-3	1	75	0.13728	0.06626			
WG2009143-4	1	76	4.26417	0.06581			
WG2009138-3	1	77	0.14117	0.06591			
CCV NO3	1	S2	1.03280	-0.00180			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.04780	1.07947			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00690	-0.00498			
	Known Conc:		0.00000	0.00000			
WG2009138-4	1	78	4.31936	4.33906			
L2473210-02	1	79	0.03331	0.01822			
L2473210-03	1	80	1.77651	0.05523			
L2473210-04	1	81	0.01631	0.00538			
L2473210-05	1	82	0.01337	0.00525			
L2473210-06	1	83	0.06419	0.01071			
L2473210-08	1	84	1.27235	0.04245			
L2473210-09	1	85	0.23302	0.08812			
L2473210-10	1	86	0.21125	0.01630			
L2473210-16	1	87	0.01056	0.00258			
CCV NO3	1	S2	1.03794	-0.00428			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.05066	1.07972			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	0.00331	-0.00055			
	Known Conc:		0.00000	0.00000			
L2473434-01	1	88	2.01525	0.00362			
L2473434-02	1	89	13.04756	0.00321			
L2473387-01D	1	90	6.62086	0.17411			
WG2009141-3	1	91	-0.02214	0.18607			
WG2009141-4	1	92	-0.02303	0.12061			
L2473407-01A	1	93	-0.02343	0.09757			
WG2009142-3	1	94	0.96760	0.01734			
WG2009141-3	1	91	6.78784	0.13954			
WG2009141-4	1	92	13.25878	0.15550			
L2473407-01A	1	93	0.98982	0.02568			
CCV NO3	1	S2	1.03737	-0.00724			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.05699	1.08913			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00926	-0.01064			
	Known Conc:		0.00000	0.00000			
WG2009142-4	1	95	4.97716	0.01926			
L2473407-02A	1	96	0.58096	0.02313			
L2473407-03A	1	97	0.44189	0.01797			
L2473407-04A	1	98	0.02385	0.01766			
L2473414-01N	1	99	0.24758	0.00313			
L2473414-02N	1	100	0.23324	0.00661			
L2473481-01	1	51	13.14213	0.00492			
L2473481-02	1	52	13.75594	0.00802			
L2473481-03	1	53	1.41072	0.00442			
L2473556-01	1	54	6.12247	1.82875			

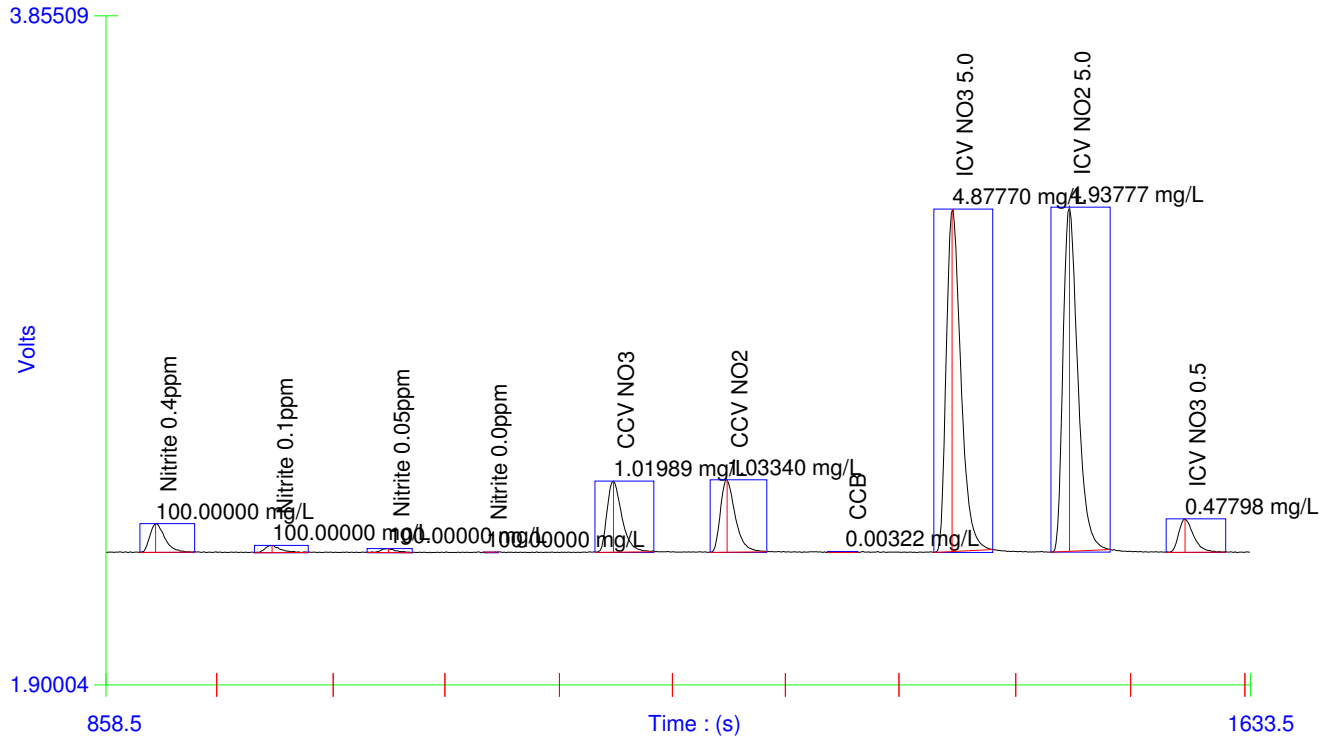
CCV NO3	1	S2	1.04283	-0.01161			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.05716	1.08824			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01020	-0.00655			
	Known Conc:		0.00000	0.00000			
WG2009229-1; NO2	1	101	-0.00983	-0.00529			
WG2009229-2; NO2	1	102	4.95623	5.01311			
WG2009230-1; NO3	1	103	0.00873	-0.00696			
WG2009230-2; NO3	1	104	4.89989	0.00039			
L2473484-01E	1	105	1.32015	0.00718			
L2473588-01D	1	106	0.02459	0.07066			
WG2009230-3; NO3	1	107	-0.02899	-0.04704			
WG2009230-4; NO3	1	108	30.73495	0.10356			
L2473588-01D	1	106	0.08108	0.08888			
WG2009230-3; NO3	1	107	30.11974	0.11078			
CCV NO3	1	S2	1.09223	-0.00166			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.05935	1.08194			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01071	-0.00681			
	Known Conc:		0.00000	0.00000			
WG2009229-3; NO2	1	109	4.60991	0.13586			
WG2009229-4; NO2	1	110	30.54437	4.34907			
L2473588-01D	1	106	30.28279	0.10948			
L2473588-02D	1	111	0.17864	0.01989			
L2473588-03D	1	112	0.31957	0.06134			
L2473588-02D	1	111	0.05523	0.02027			
WG2009229-3; NO2	1	109	30.21382	0.11052			
L2473588-04D	1	113	0.59430	0.00936			
L2473588-05D	1	114	0.08730	0.03673			
L2473588-06D	1	115	0.01821	0.00689			
CCV NO3	1	S2	1.03953	-0.00639			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.04689	1.07866			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01046	-0.00747			
	Known Conc:		0.00000	0.00000			
L2473588-04D	1	113	0.52393	0.00959			
L2473588-07G	1	116	0.01005	0.00362			
L2473588-10A	1	117	0.02616	0.01226			
L2473588-12A	1	118	0.03447	0.02340			
L2473588-14A	1	119	0.81945	0.08175			
L2473588-16A	1	120	2.89135	0.10031			
L2473588-18A	1	121	-0.02468	0.18634			
L2473588-20D	1	122	0.02528	0.00732			
L2473588-16A	1	120	2.88758	0.10111			
L2473588-22D	1	123	18.63949	0.08227			
CCV NO3	1	S2	1.06760	0.00037			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.06337	1.09345			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00988	-0.00522			
	Known Conc:		0.00000	0.00000			
L2473588-18A	1	121	0.57882	0.36855			
L2473588-24A	1	124	0.35497	0.04097			
L2473588-26A	1	125	6.48596	0.04903			
L2473588-28A	1	126	1.09004	0.32551			
L2473588-30A	1	127	0.02568	0.01091			
L2473588-32D	1	128	18.57660	0.05287			
L2473538-01N	1	129	1.17376	0.00418			
L2473538-02N	1	130	6.69383	0.00259			
L2473538-03N	1	131	3.44739	0.00266			
L2473538-04N	1	132	0.83164	0.00361			
CCV NO3	1	S2	1.04838	-0.00508			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.05874	1.09221			
	Known Conc:		0.00000	1.00000			

CCB	1	S1	-0.01007	-0.00285			
	Known Conc:		0.00000	0.00000			
L2473538-05N	1	133	0.02109	0.00450			
L2473387-01D	1	90	6.65732	0.17341			
L2473407-01A	1	93	0.98395	0.02713			
L2473481-03	1	53	1.40315	0.00463			
L2473467-01A	1	134	1.21534	0.00561			
L2473465-01A	1	135	2.76734	0.02978			
L2473434-02; 1 UP TO 5	1	167	-0.12473	0.71515		5.00	
WG2009141-4; 1 UP TO 5	1	168	-0.14934	0.78458		5.00	
L2473481-01; 1 UP TO 5	1	169	1.34496	0.71116		5.00	
L2473481-02; 1 UP TO 5	1	170	15.14951	-0.00015		5.00	
CCV NO3	1	S2	1.05419	-0.00374			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.05971	1.09641			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00891	-0.00103			
	Known Conc:		0.00000	0.00000			
L2473434-02; 1 UP TO 5	1	167	0.10404	1.36539		5.00	
L2473434-02; 1 UP TO 5	1	167	-0.11245	-0.15868		5.00	
WG2009141-4; 1 UP TO 5	1	168	-0.14191	0.44356		5.00	
L2473434-02; 1 UP TO 5	1	176	15.16868	-0.00980		5.00	
WG2009141-4; 1 UP TO 5	1	177	15.08506	0.14466		5.00	
L2473481-01; 1 UP TO 5	1	169	-0.14454	-0.18024		5.00	
L2473588-01D; 1 UP TO 25	1	171	-0.56105	3.90517		25.00	
L2473588-01D; 1 UP TO 25	1	171	70.04731	-0.02012		25.00	
L2473481-01; 1 UP TO 5	1	178	16.60395	-0.00836		5.00	
WG2009230-3; NO3 1 UP TO 25	1	172	70.07650	0.04776		25.00	
CCV NO3	1	S2	1.04495	-0.00523			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.06607	1.09832			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01050	-0.00525			
	Known Conc:		0.00000	0.00000			
WG2009230-4; NO3 1 UP TO 25	1	173	-0.63024	0.37022		25.00	
WG2009230-4; NO3 1 UP TO 25	1	173	72.24544	0.05541		25.00	
L2473588-22D; 1 UP TO 5	1	174	-0.09390	0.81712		5.00	
L2473588-22D; 1 UP TO 5	1	174	25.91264	0.08192		5.00	
L2473588-32D; 1 UP TO 5	1	175	23.28139	0.04143		5.00	
BLANK	1	16	-0.00973	-0.00602			
BLANK	1	17	-0.01138	-0.00468			
BLANK	1	18	-0.01146	-0.00534			

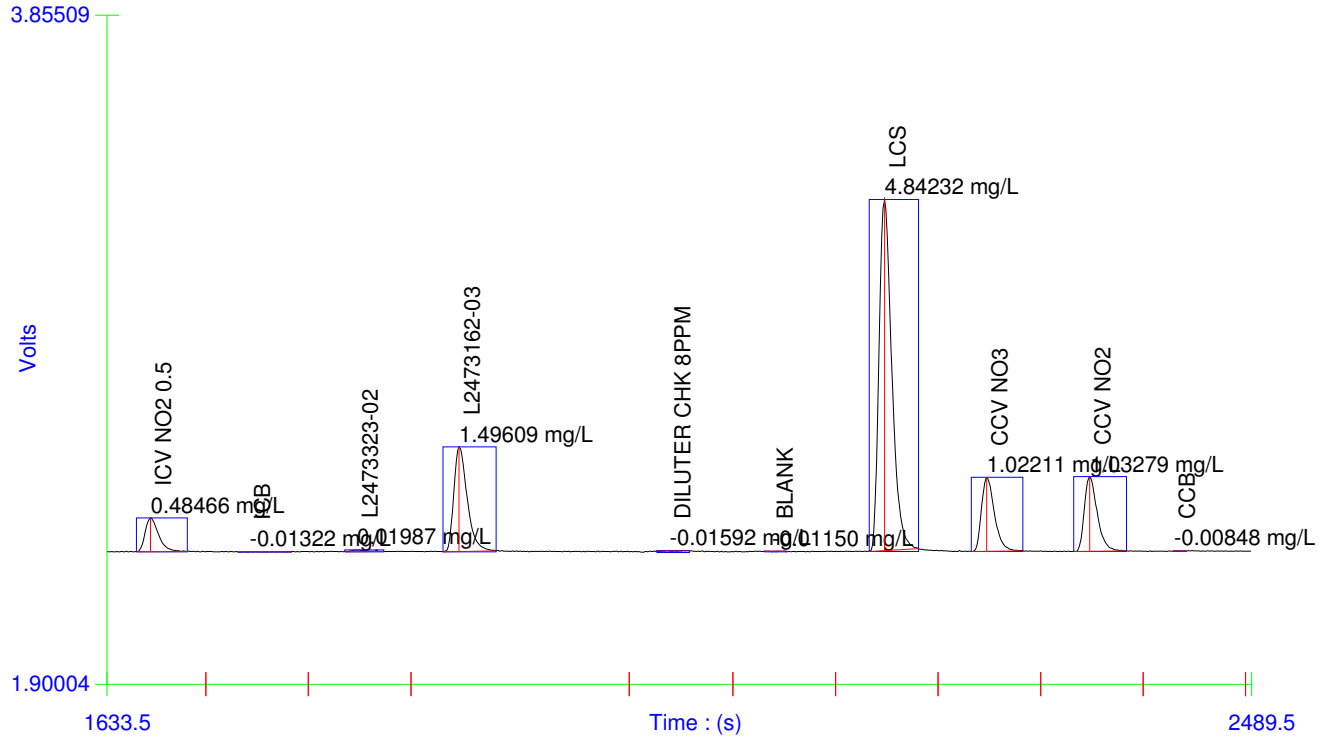
Channel 1 (NO3+NO2) - Set: 1 / 20



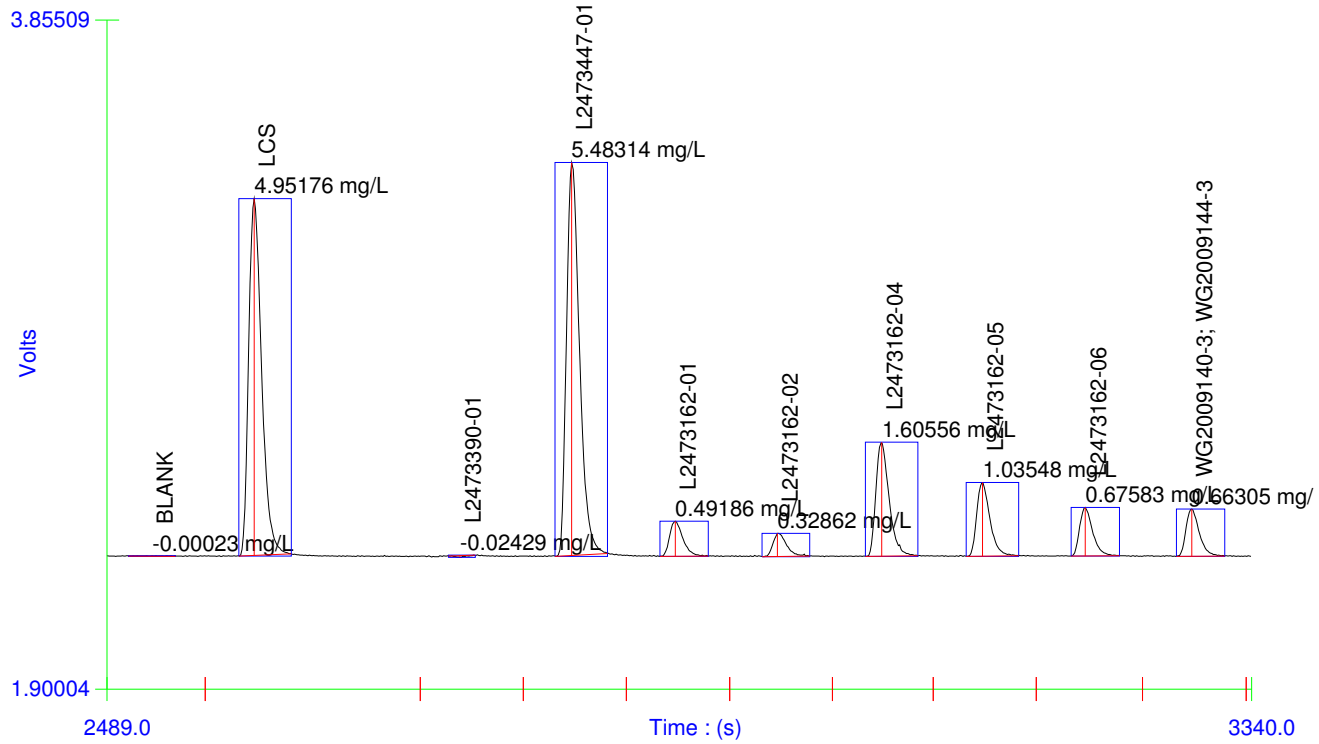
Channel 1 (NO3+NO2) - Set: 2 / 20



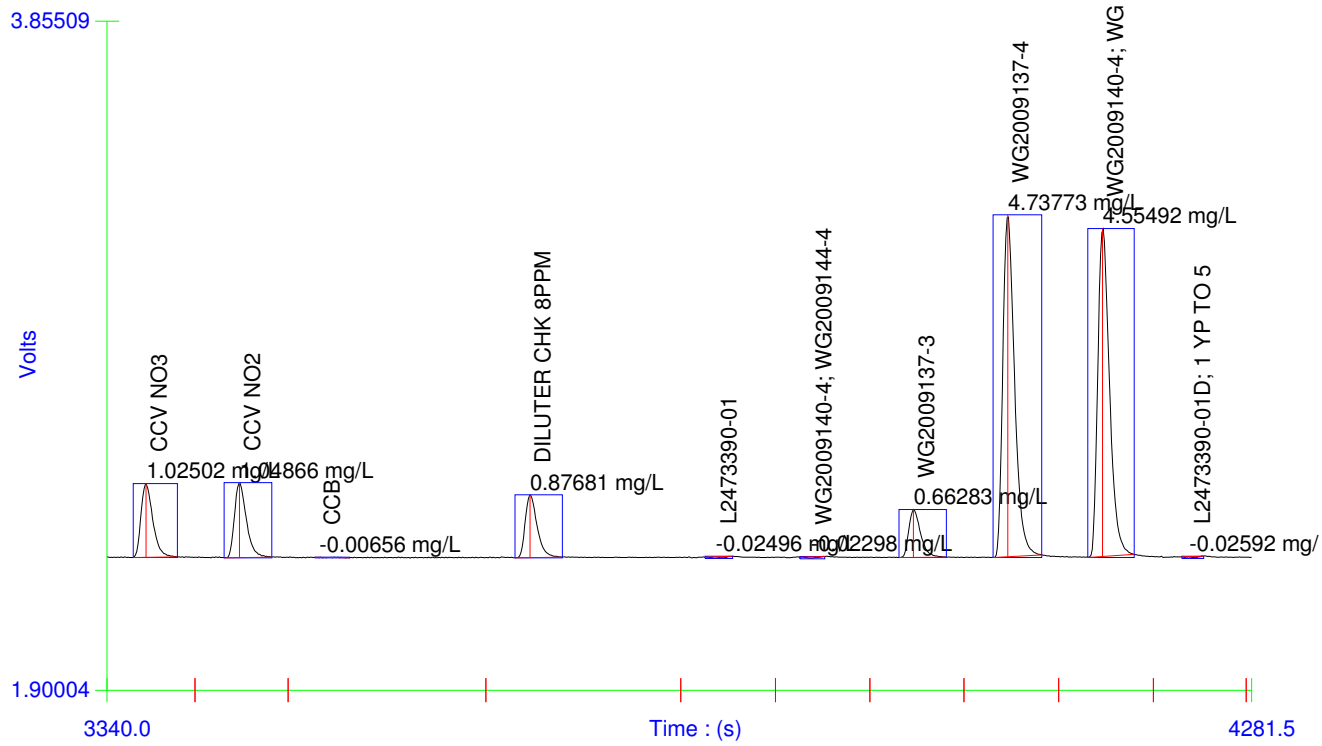
Channel 1 (NO3+NO2) - Set: 3 / 20



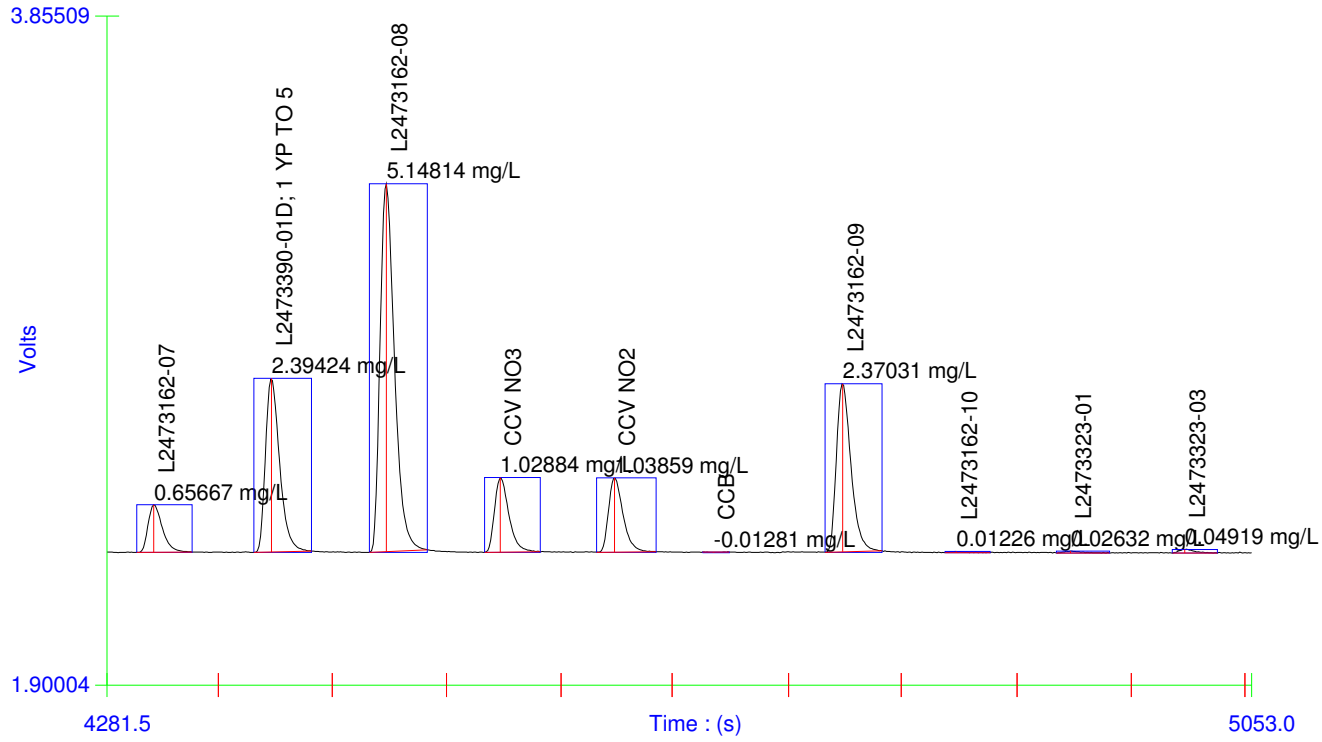
Channel 1 (NO3+NO2) - Set: 4 / 20



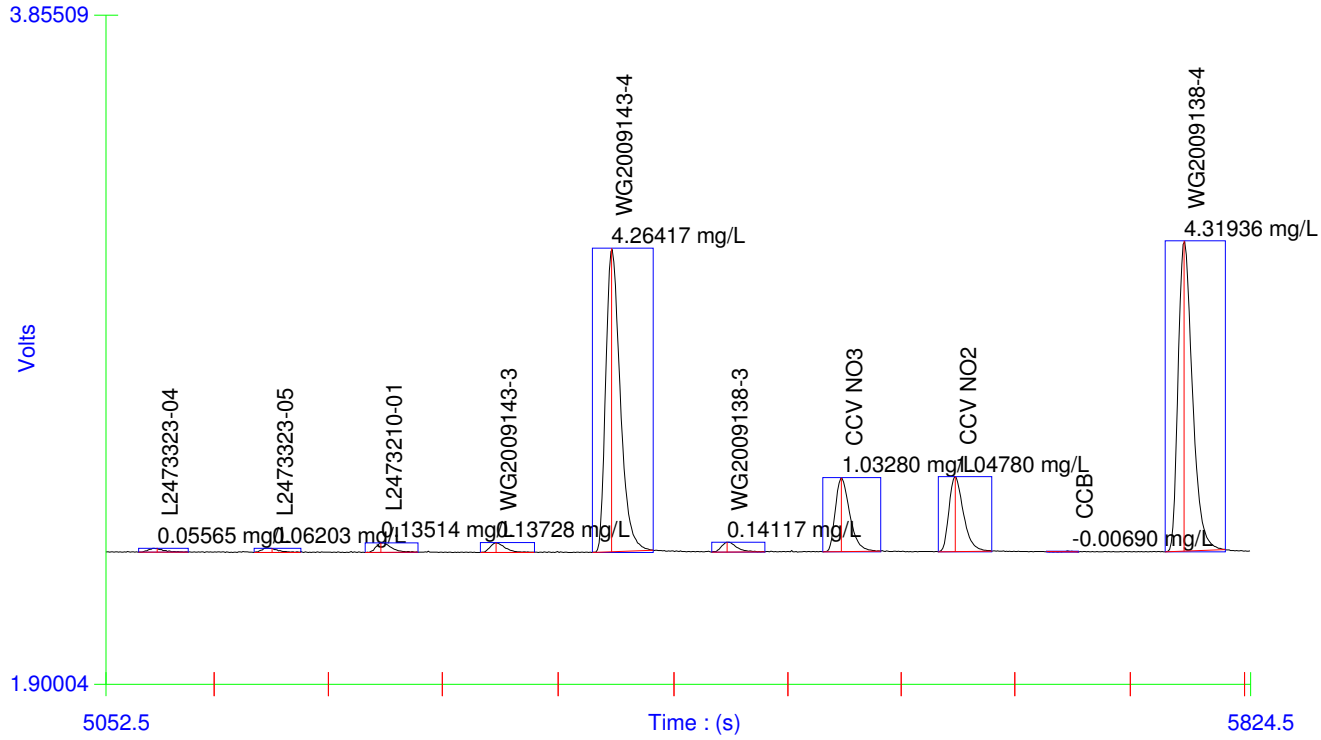
Channel 1 (NO3+NO2) - Set: 5 / 20



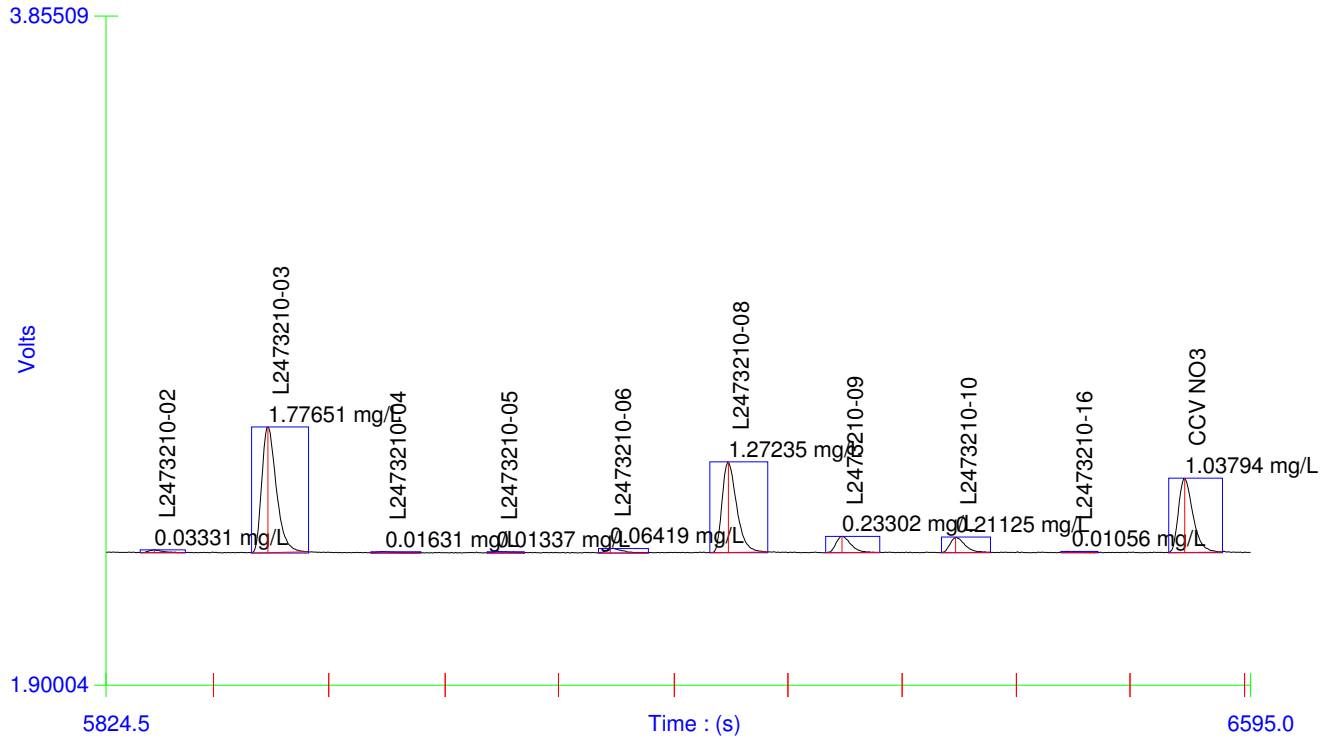
Channel 1 (NO3+NO2) - Set: 6 / 20



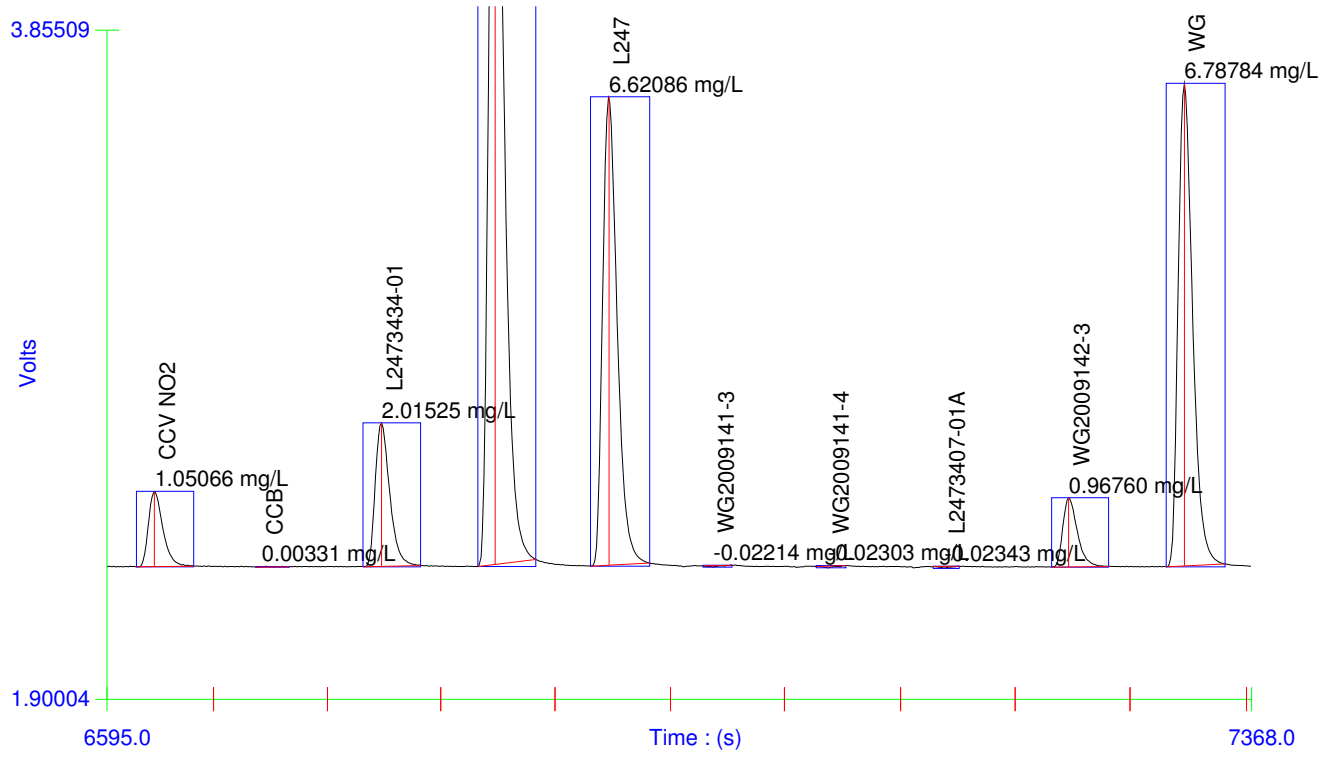
Channel 1 (NO3+NO2) - Set: 7 / 20



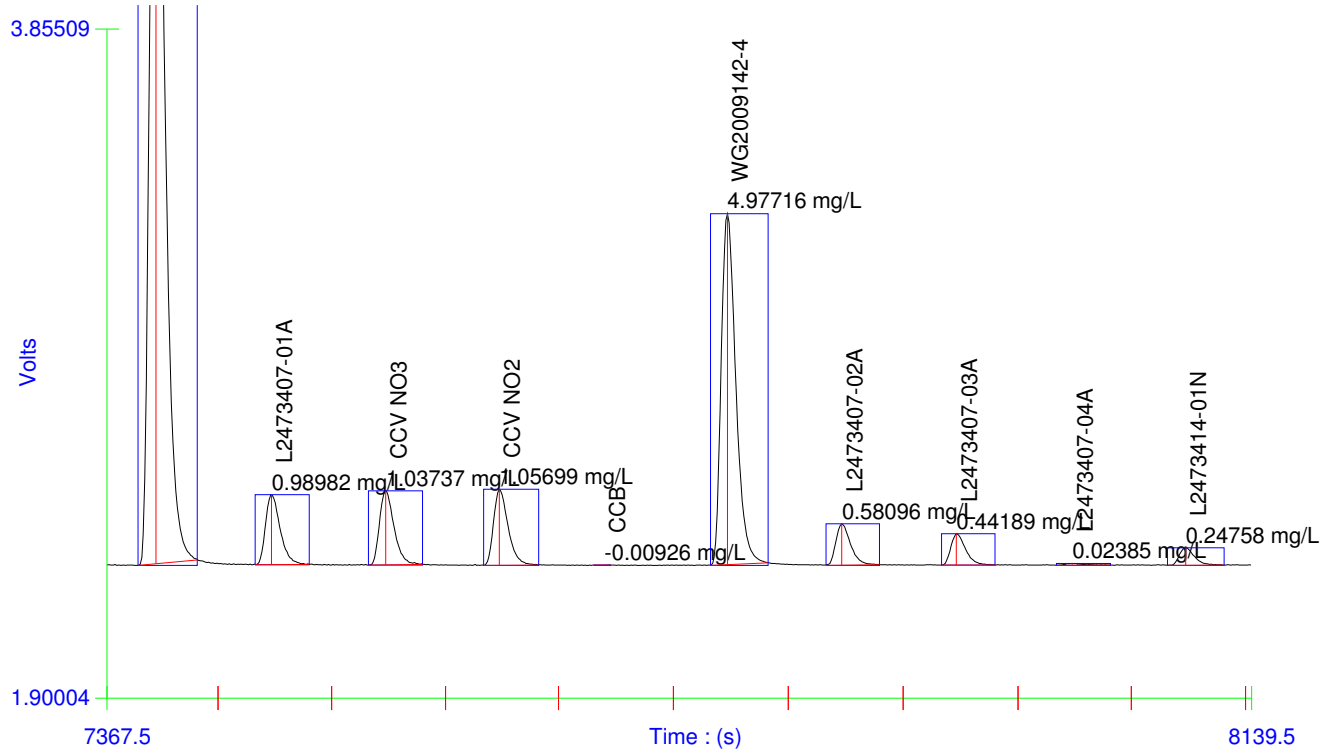
Channel 1 (NO3+NO2) - Set: 8 / 20



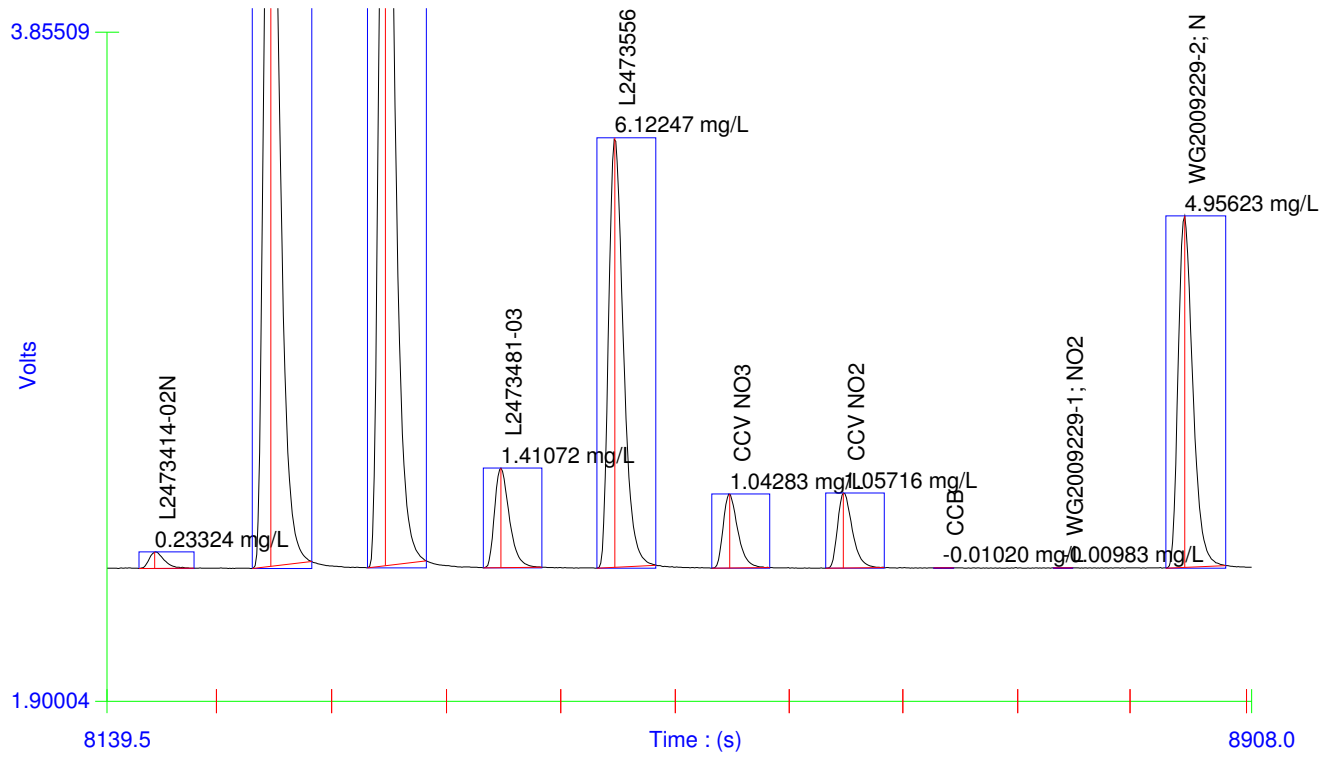
Channel 1 (NO3+NO2) - Set: 9 / 20



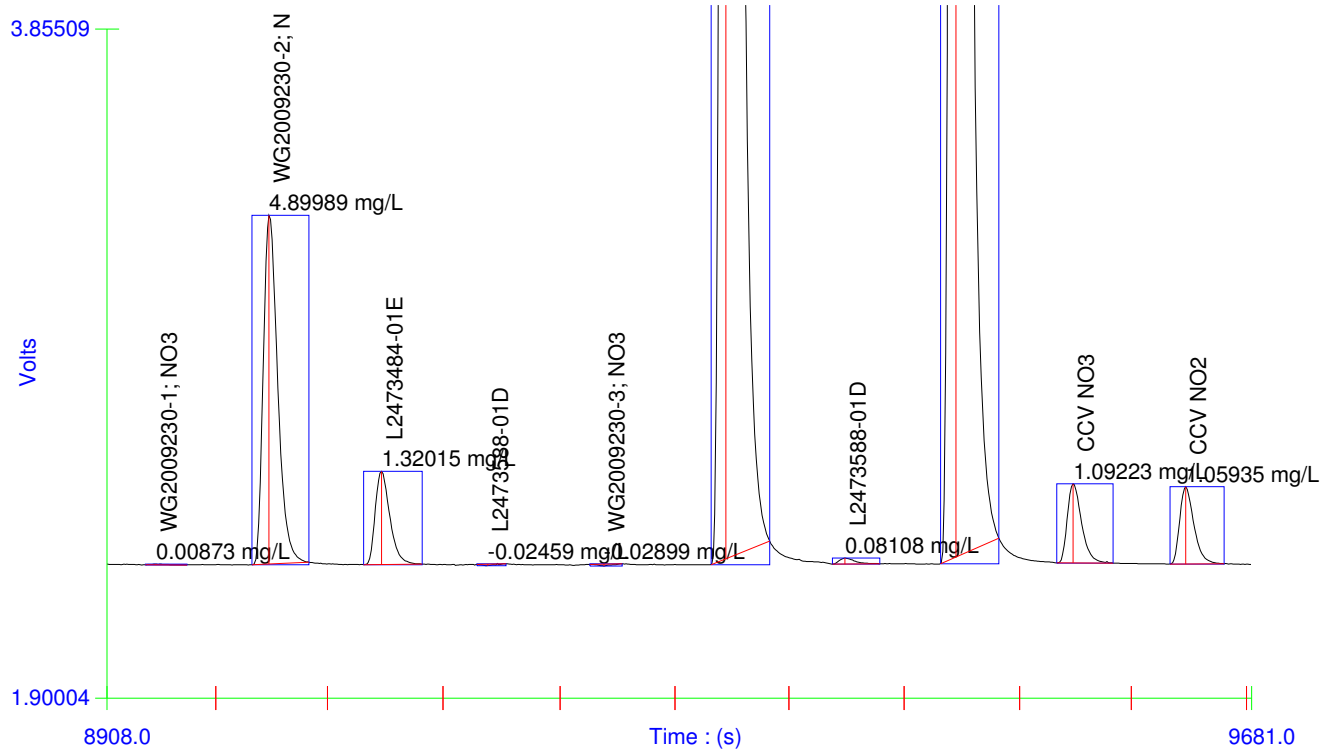
Channel 1 (NO3+NO2) - Set: 10 / 20



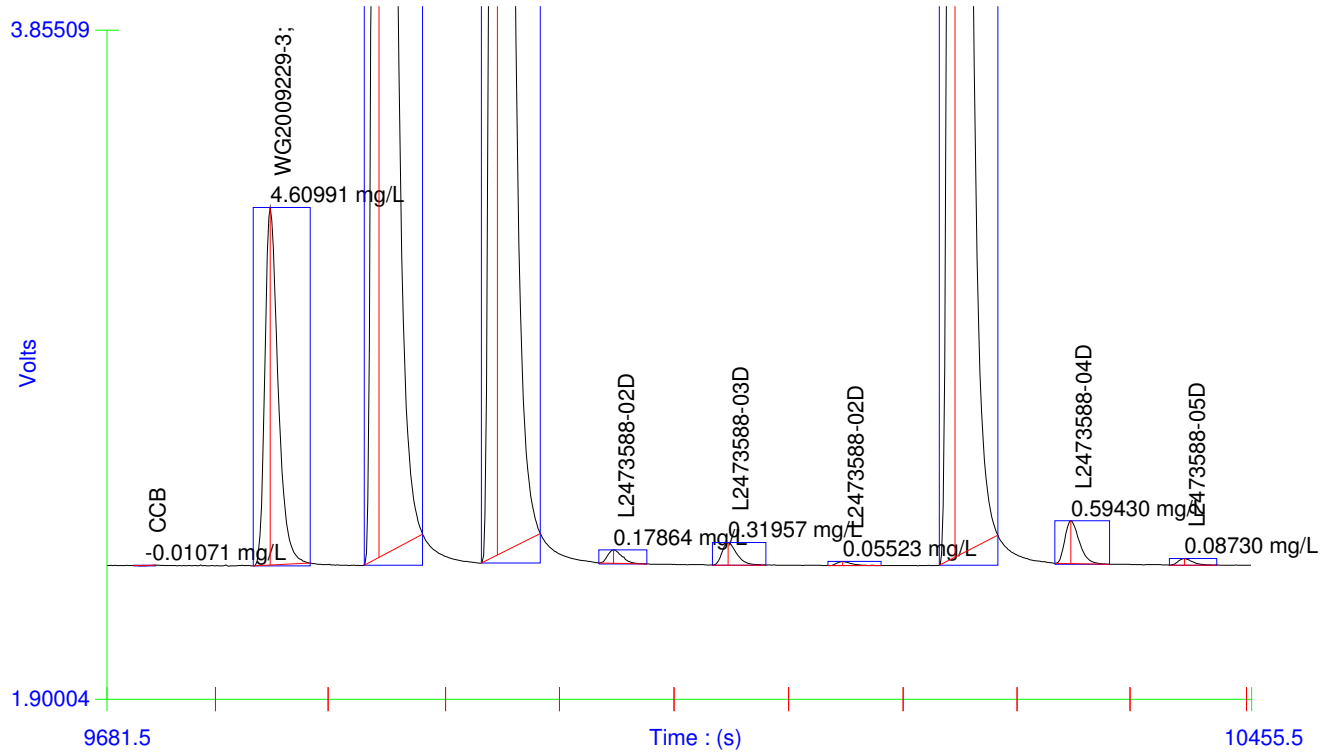
Channel 1 (NO3+NO2) - Set: 11 / 20



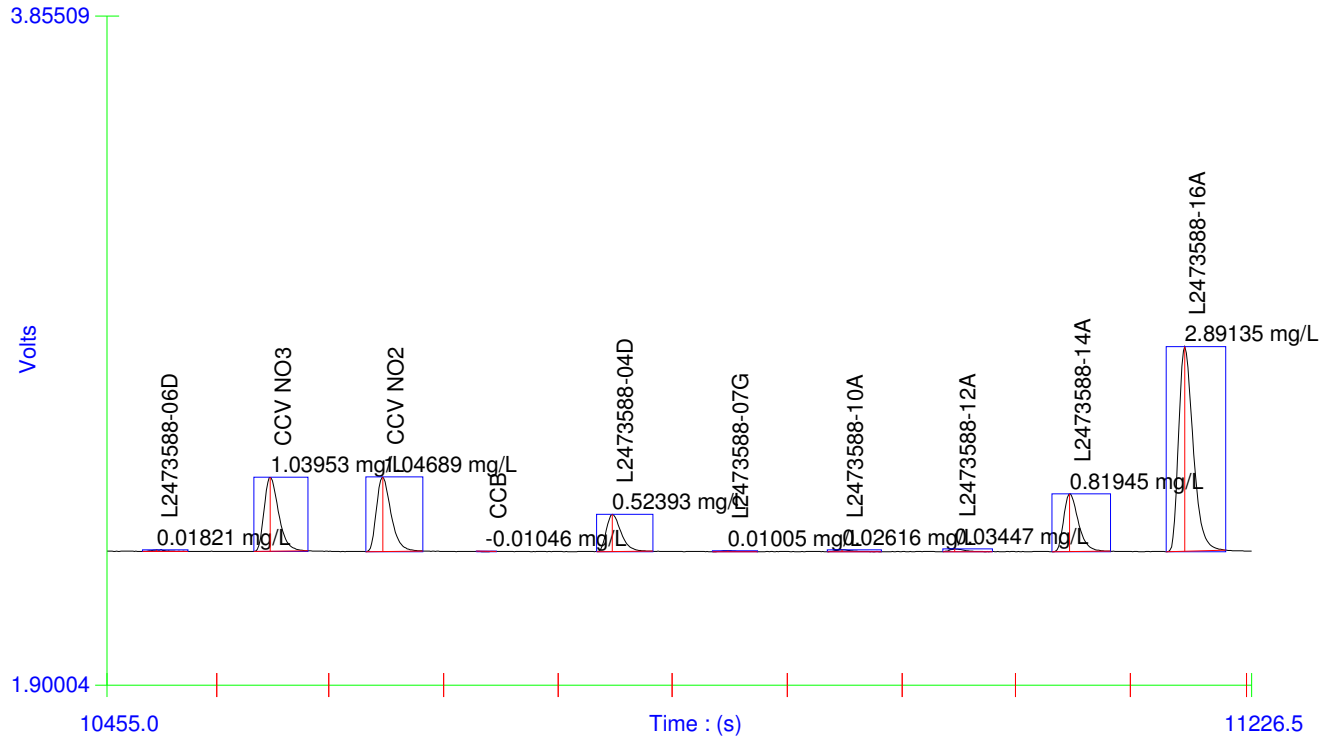
Channel 1 (NO3+NO2) - Set: 12 / 20



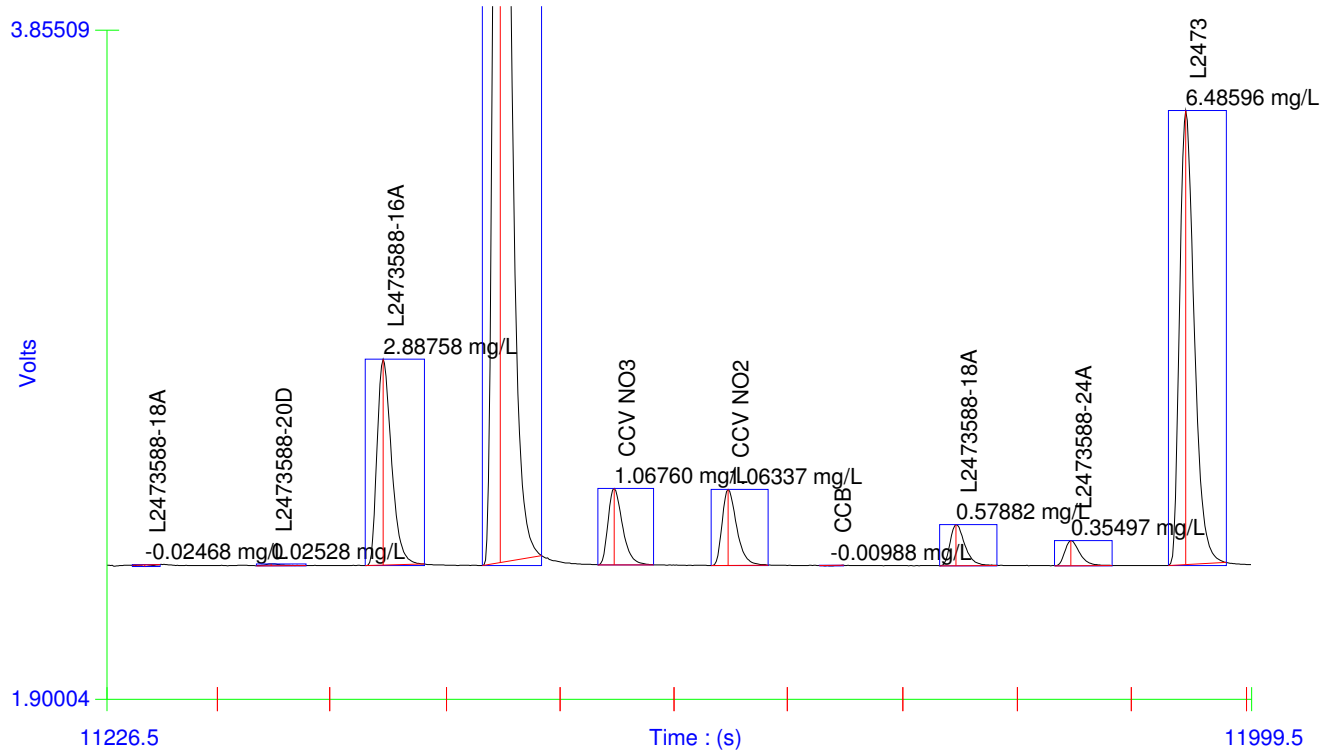
Channel 1 (NO3+NO2) - Set: 13 / 20



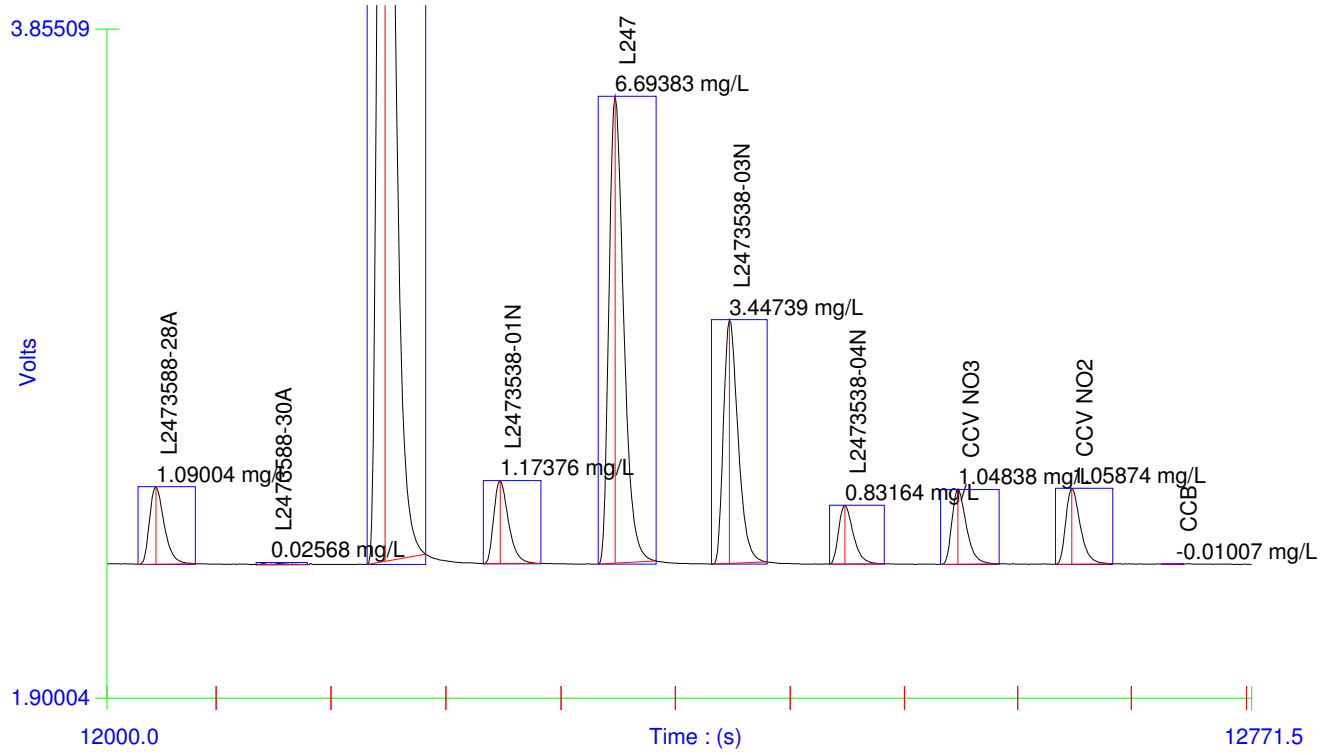
Channel 1 (NO3+NO2) - Set: 14 / 20



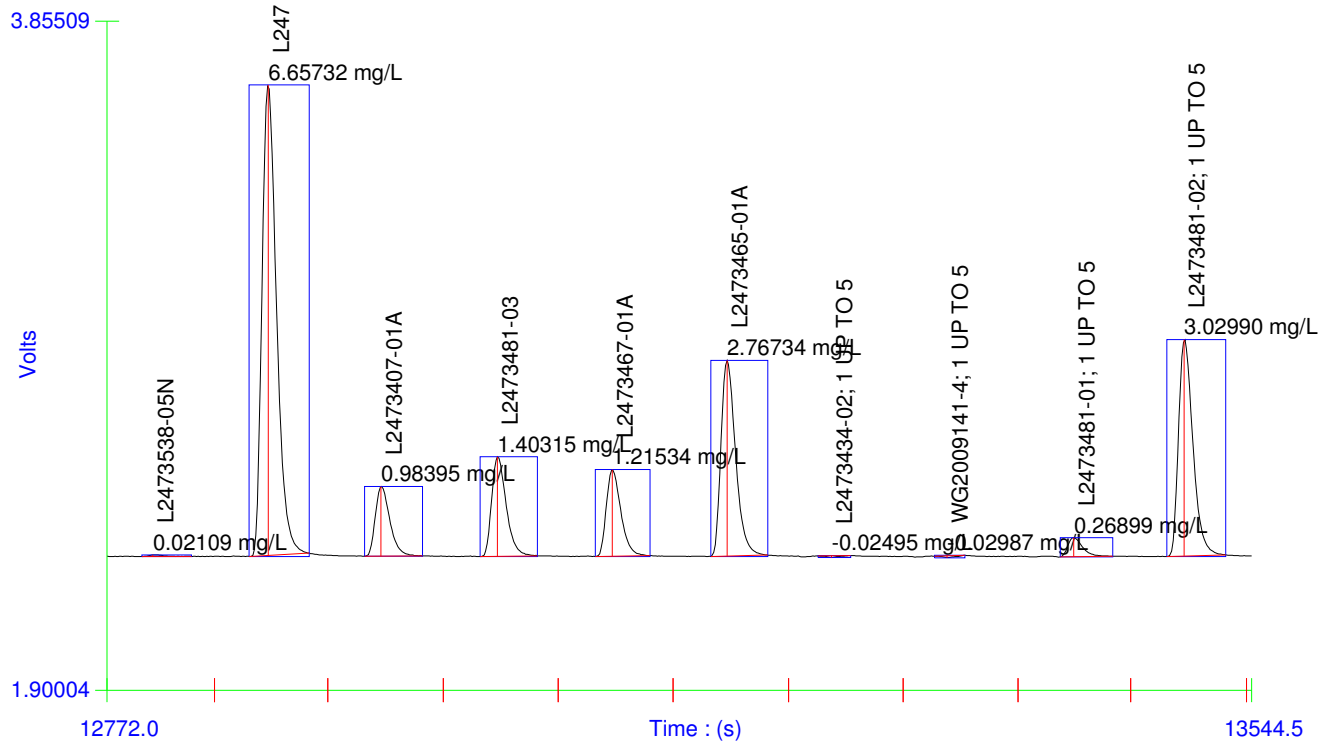
Channel 1 (NO3+NO2) - Set: 15 / 20



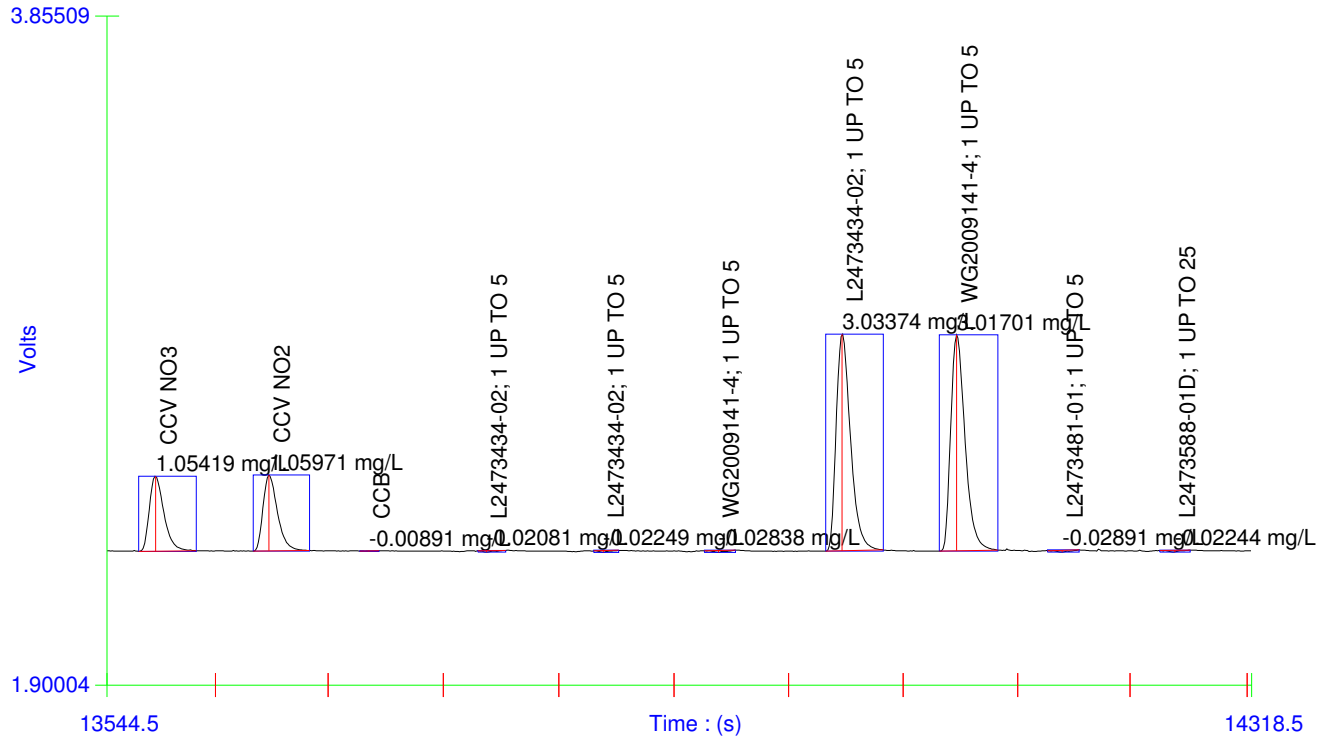
Channel 1 (NO3+NO2) - Set: 16 / 20



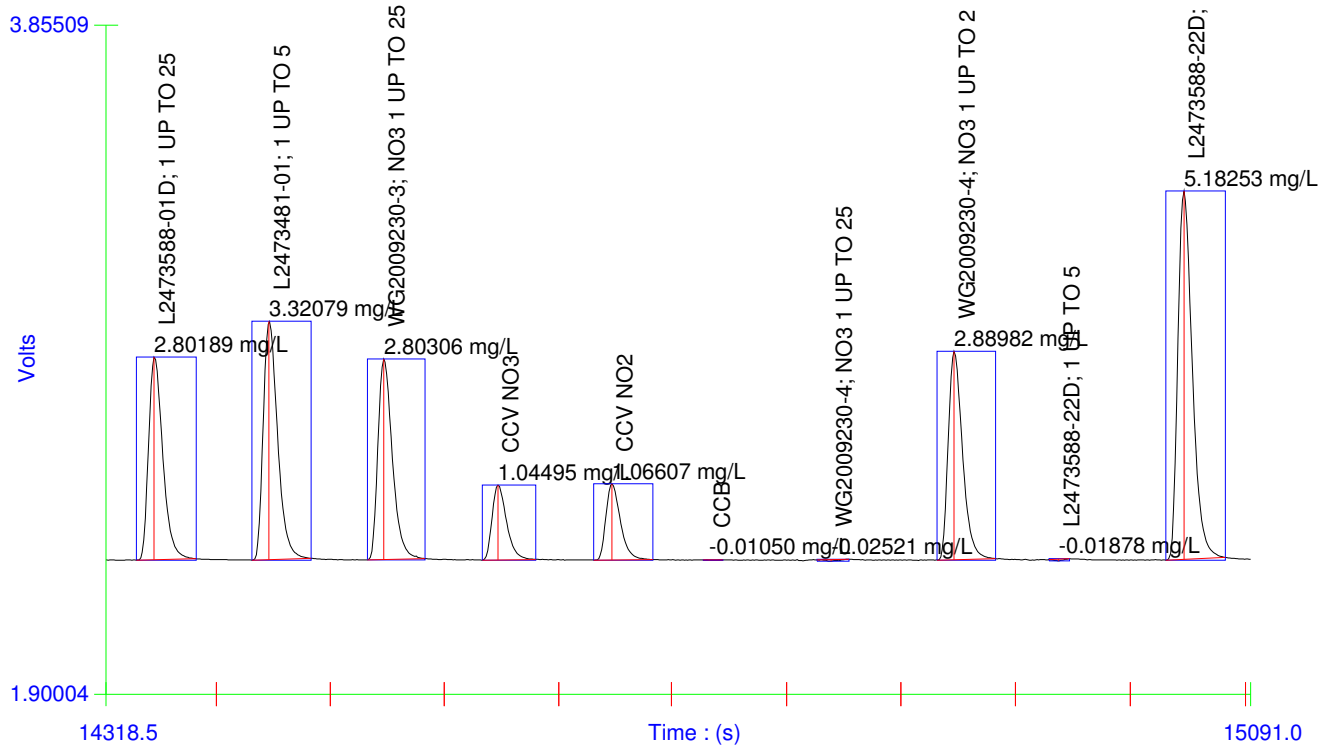
Channel 1 (NO3+NO2) - Set: 17 / 20



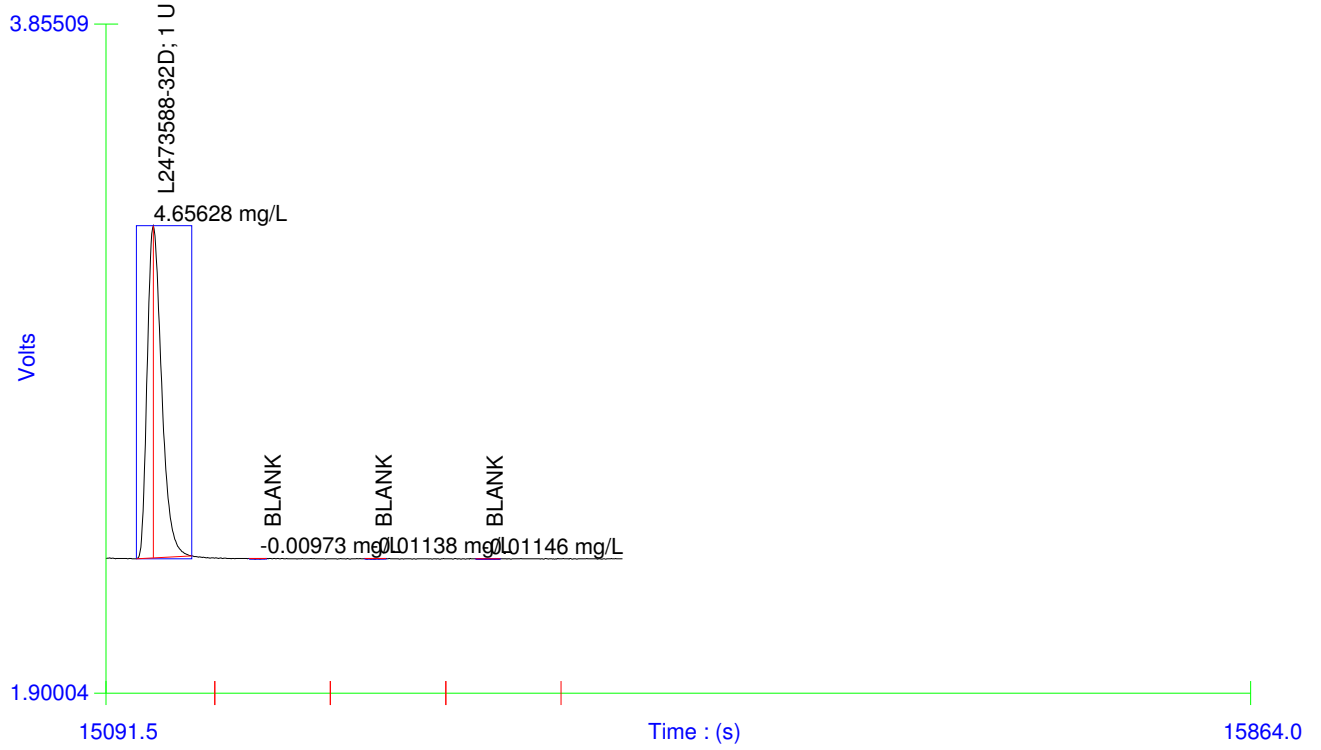
Channel 1 (NO3+NO2) - Set: 18 / 20



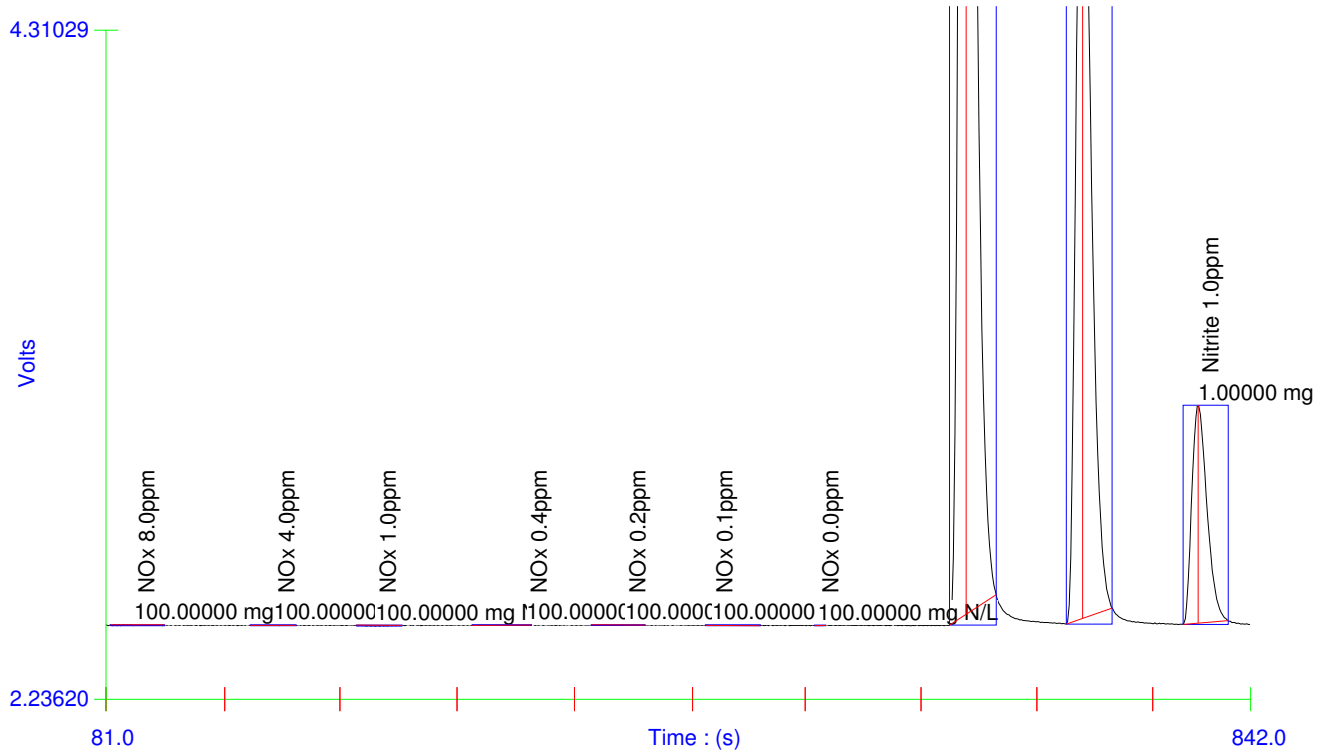
Channel 1 (NO3+NO2) - Set: 19 / 20



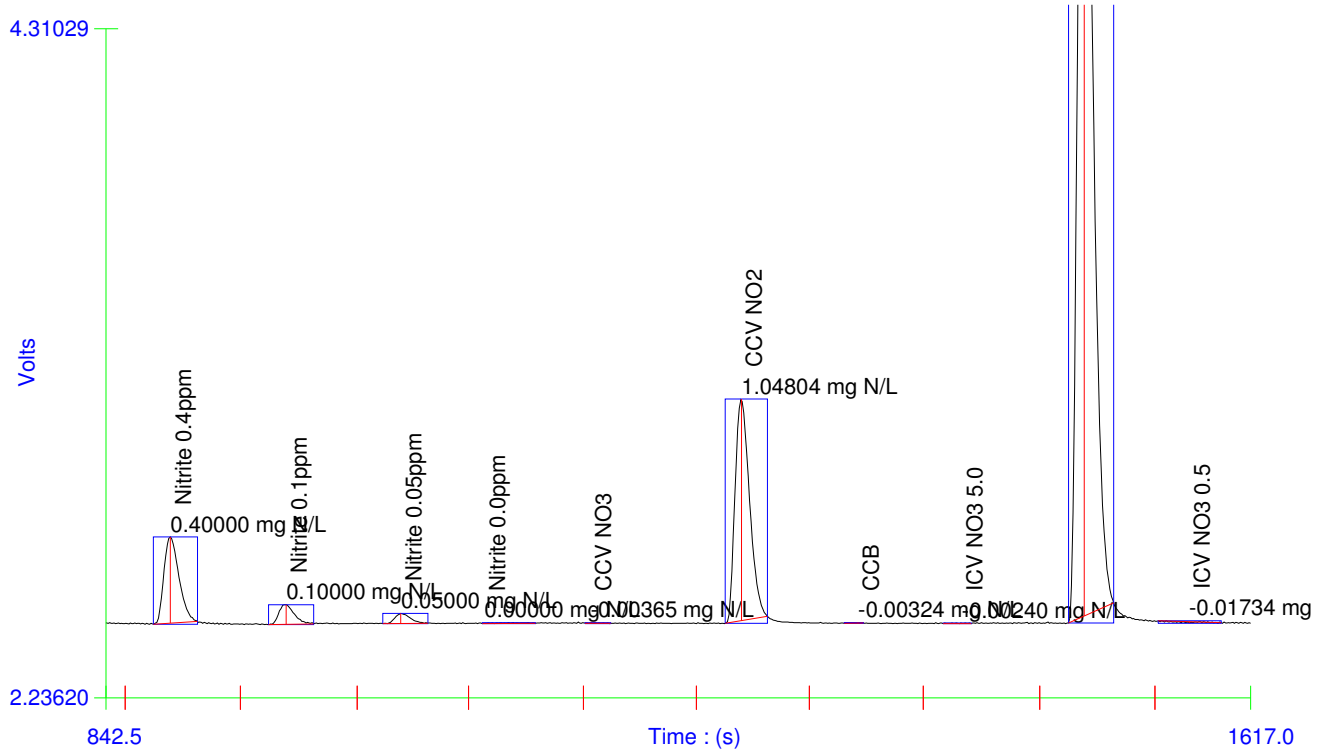
Channel 1 (NO3+NO2) - Set: 20 / 20



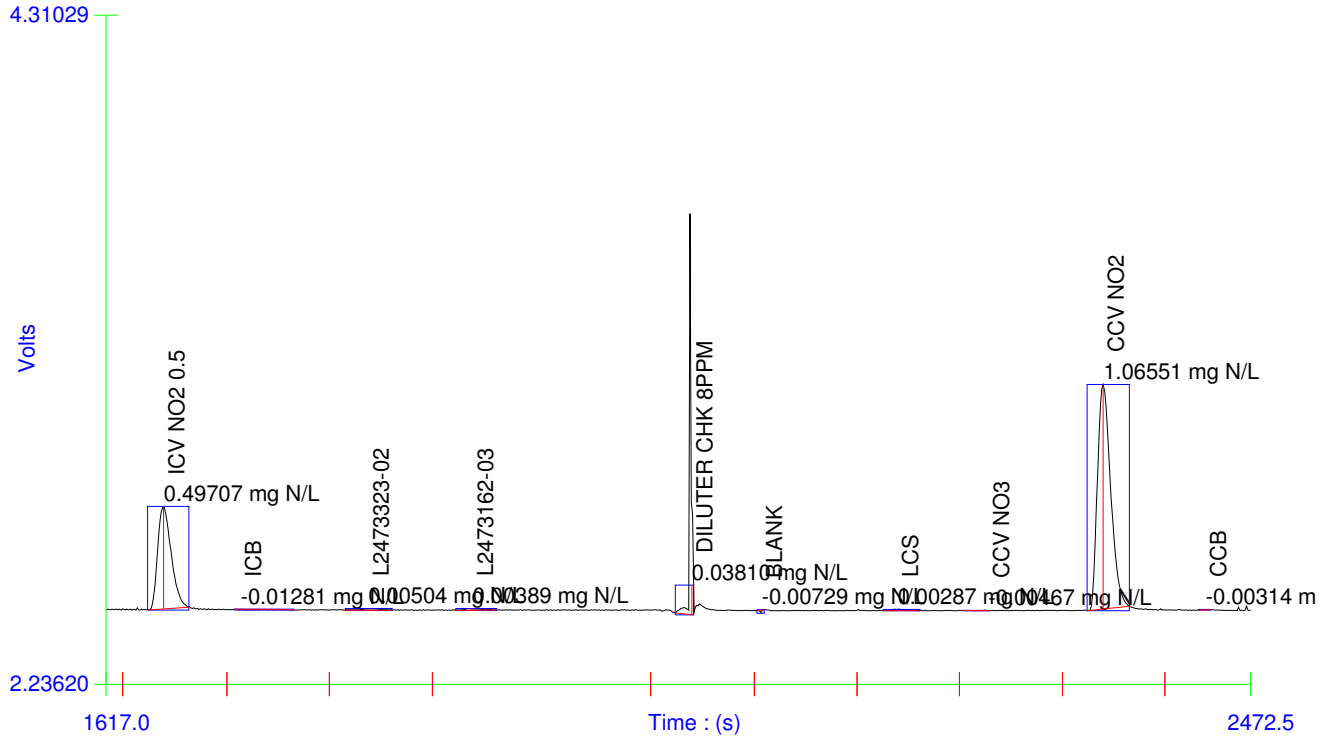
Channel 2 (NO2) - Set: 1 / 20



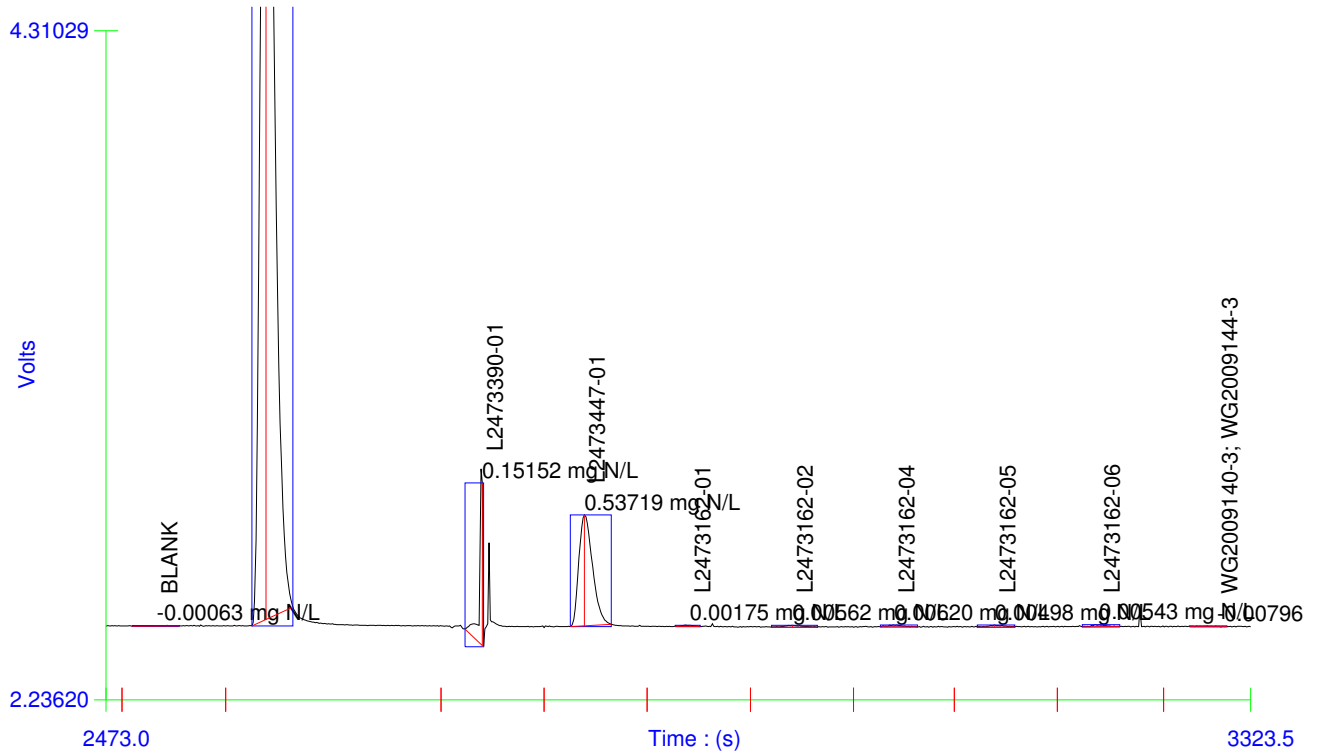
Channel 2 (NO2) - Set: 2 / 20



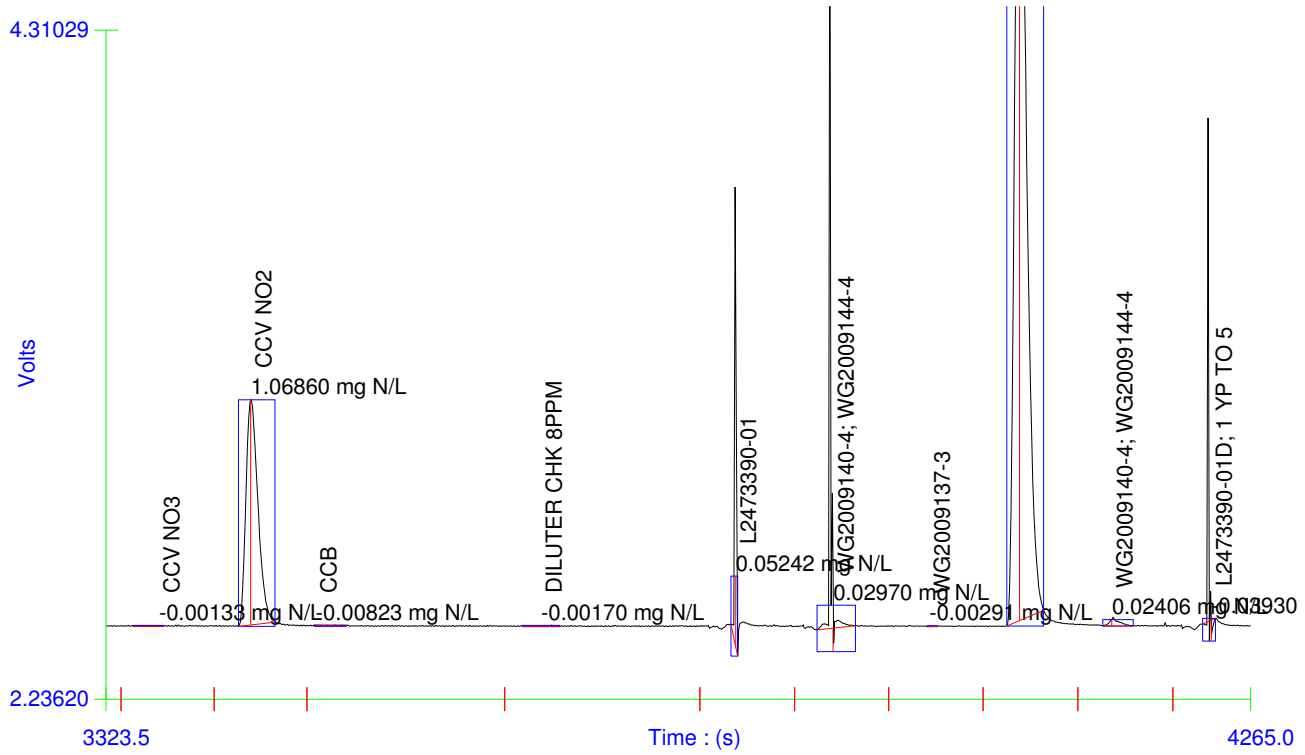
Channel 2 (NO2) - Set: 3 / 20



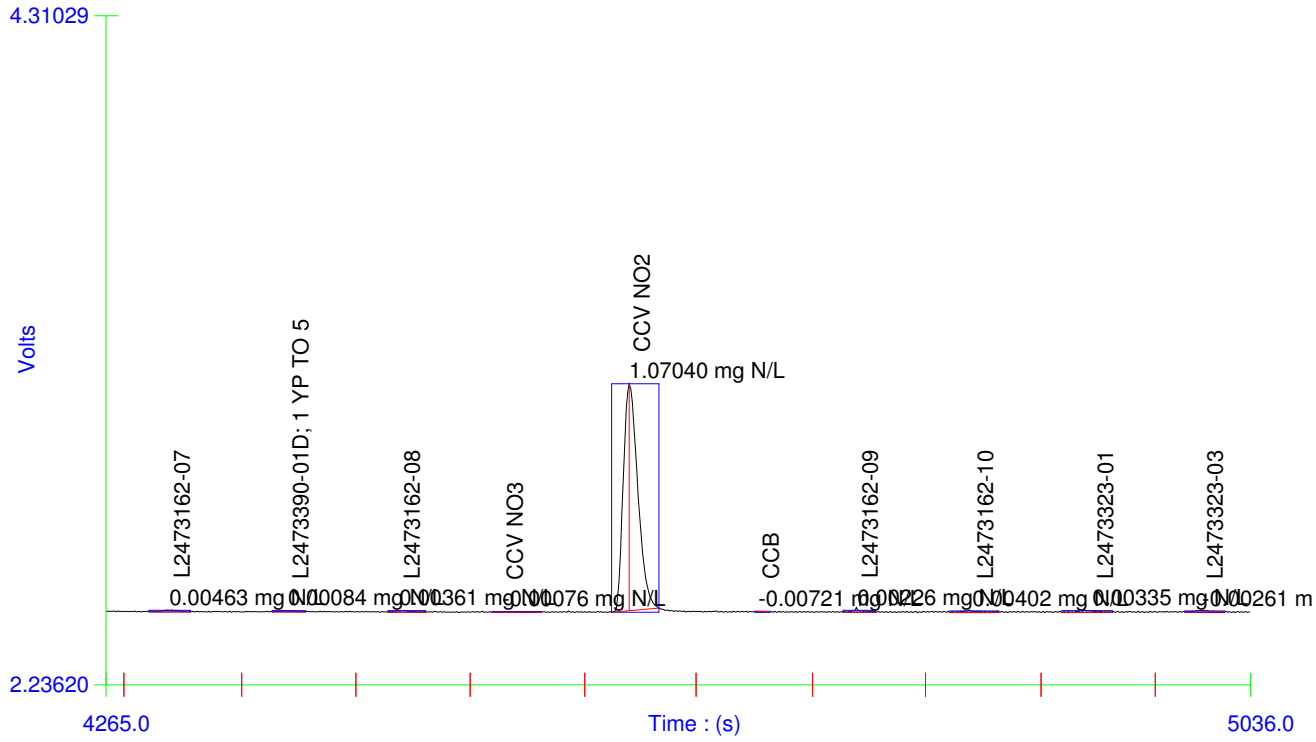
Channel 2 (NO2) - Set: 4 / 20



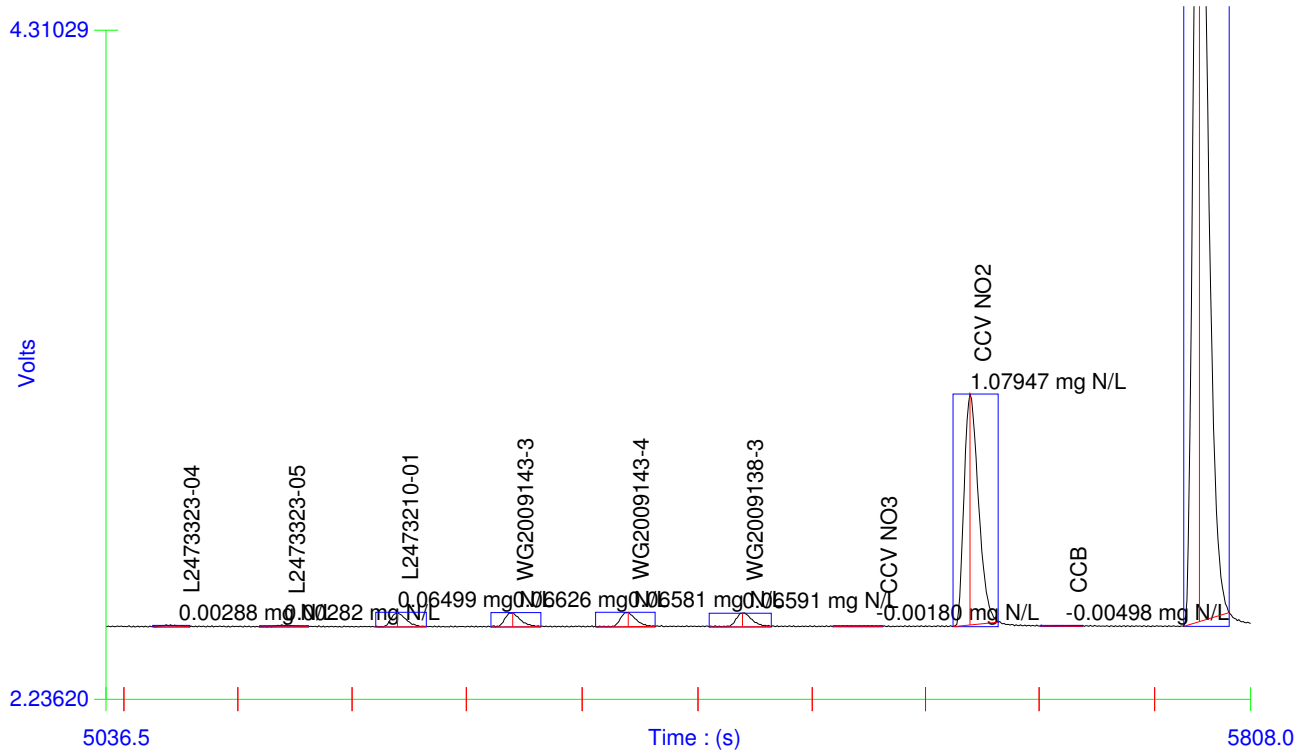
Channel 2 (NO2) - Set: 5 / 20



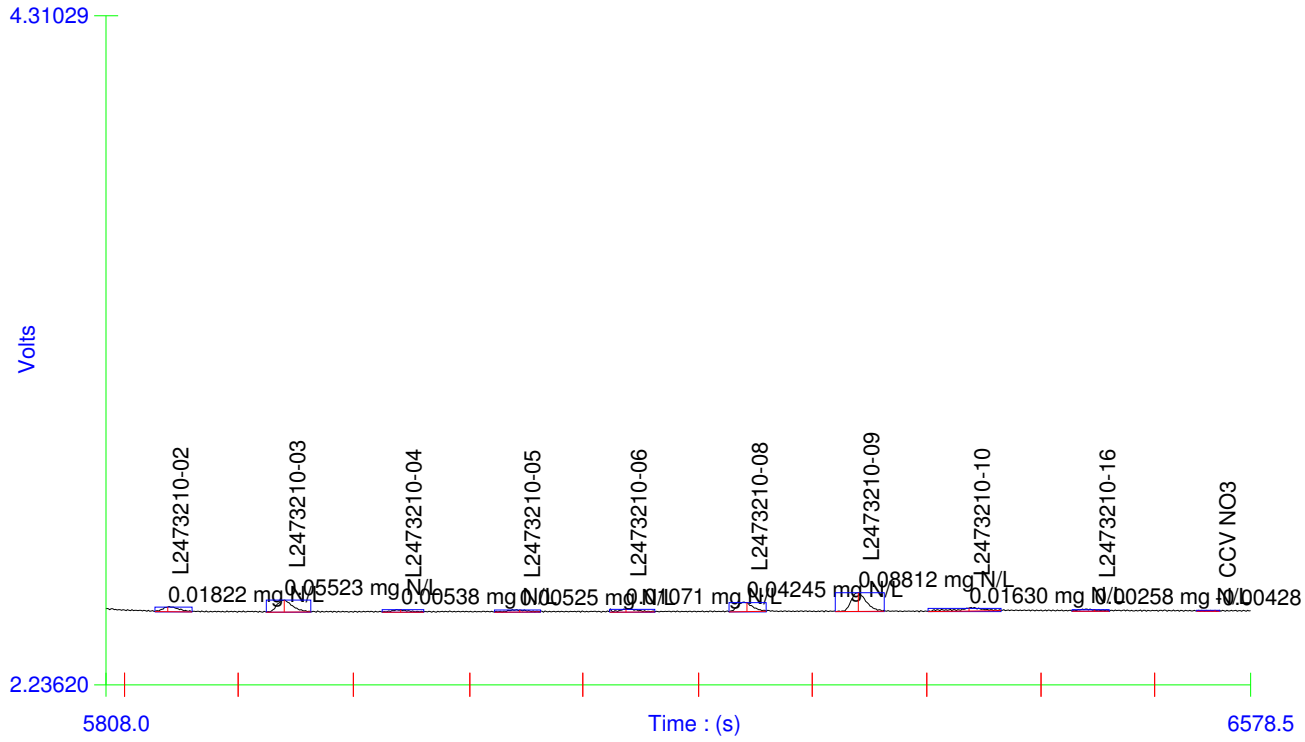
Channel 2 (NO2) - Set: 6 / 20



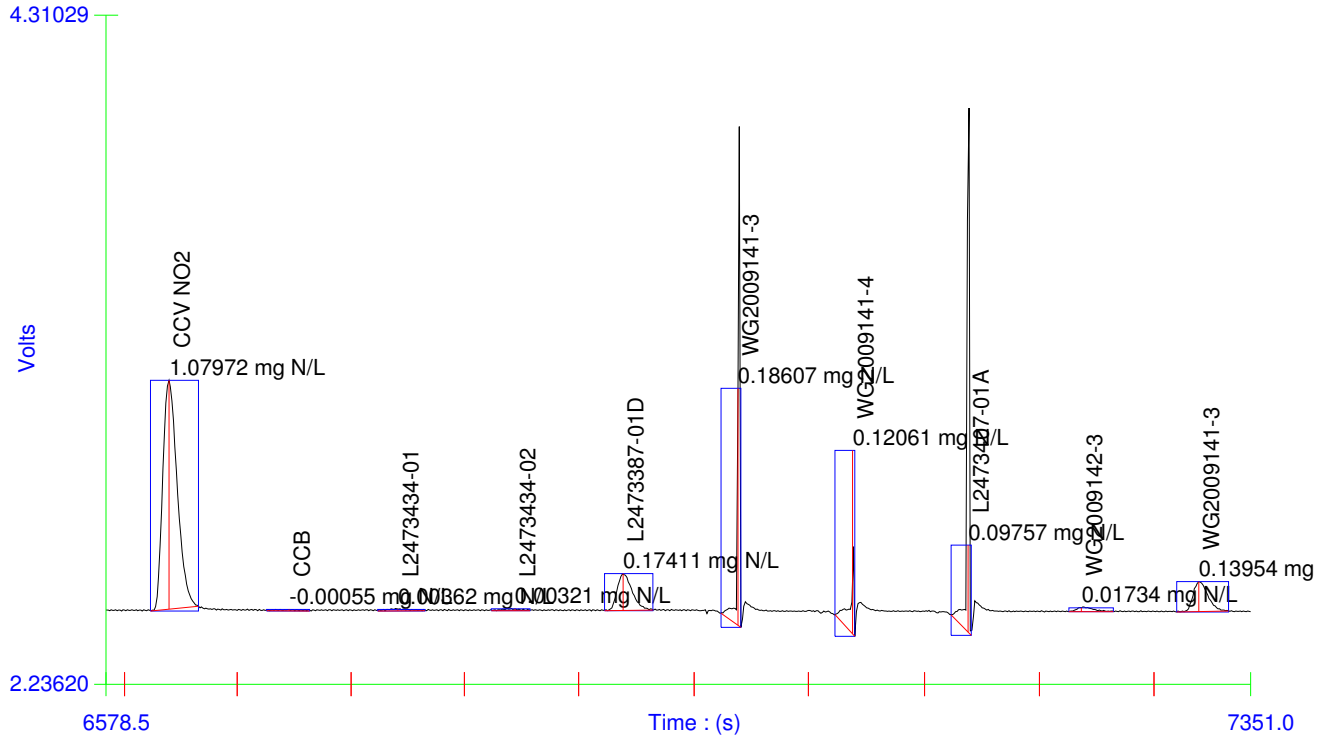
Channel 2 (NO2) - Set: 7 / 20



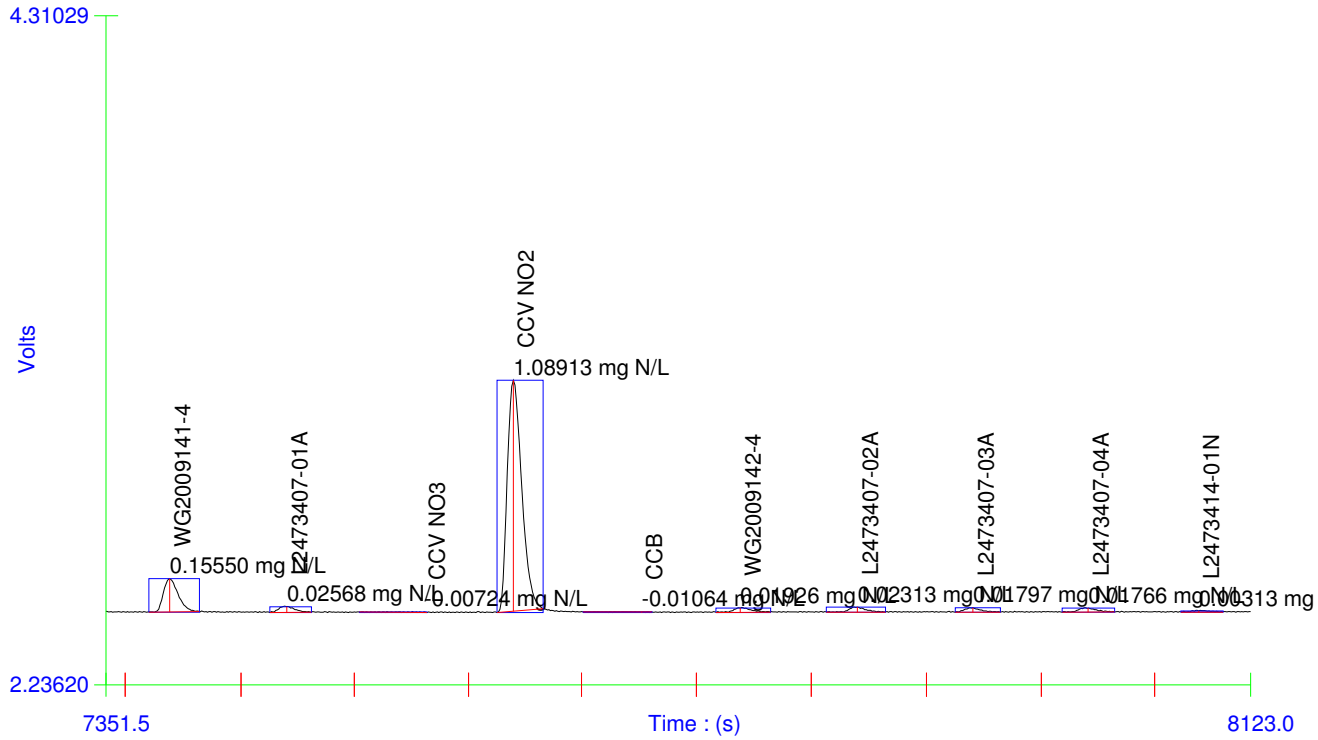
Channel 2 (NO2) - Set: 8 / 20



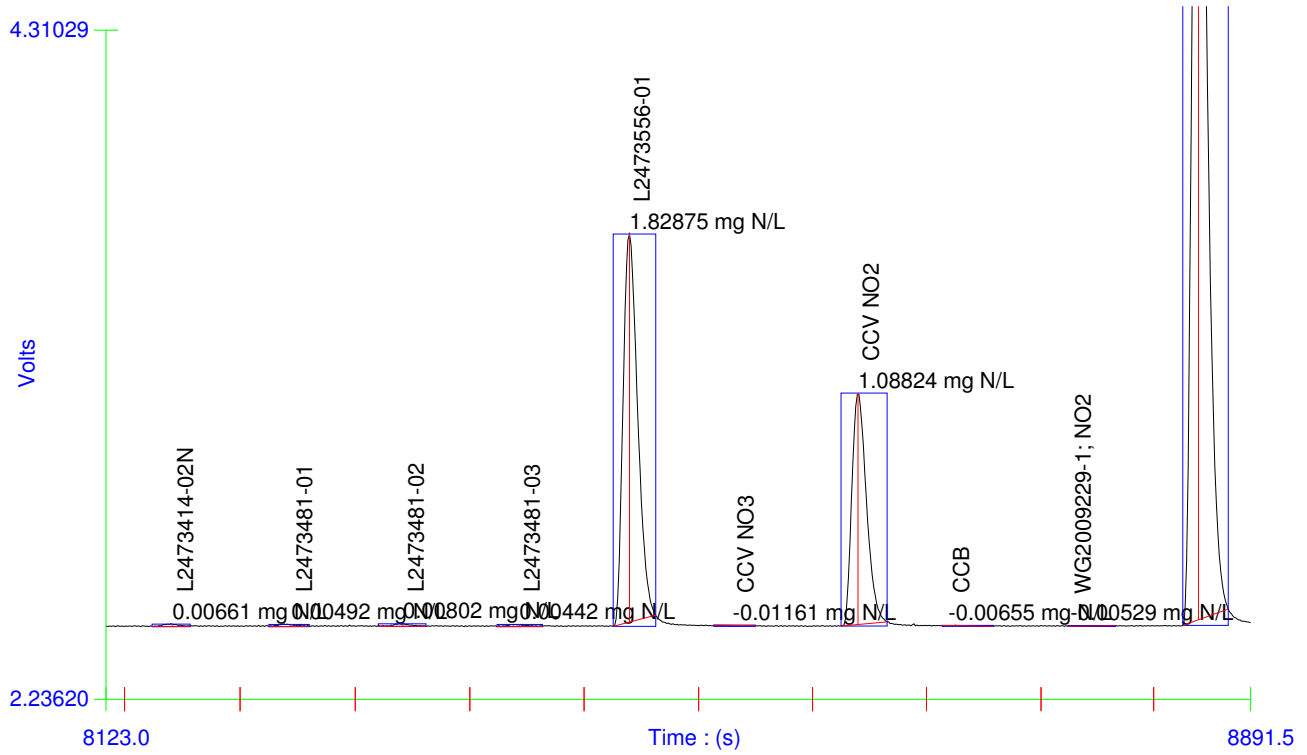
Channel 2 (NO2) - Set: 9 / 20



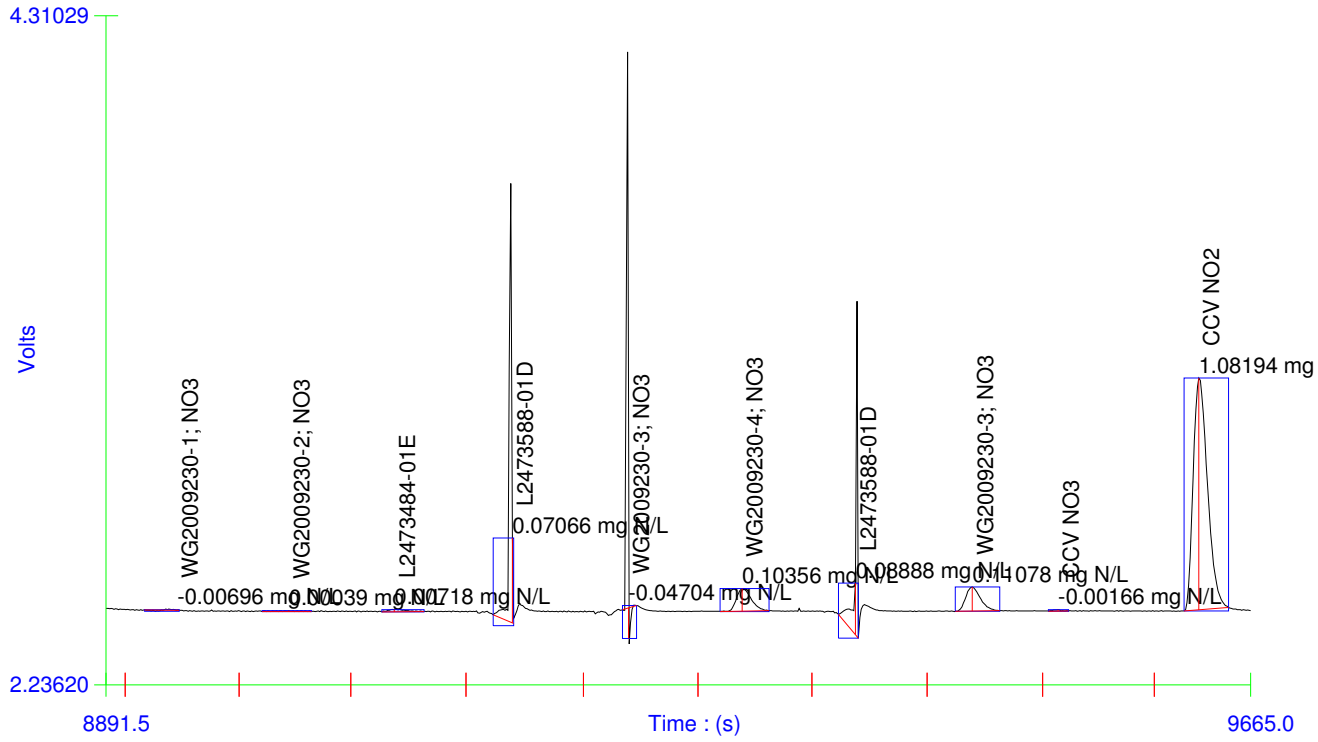
Channel 2 (NO2) - Set: 10 / 20



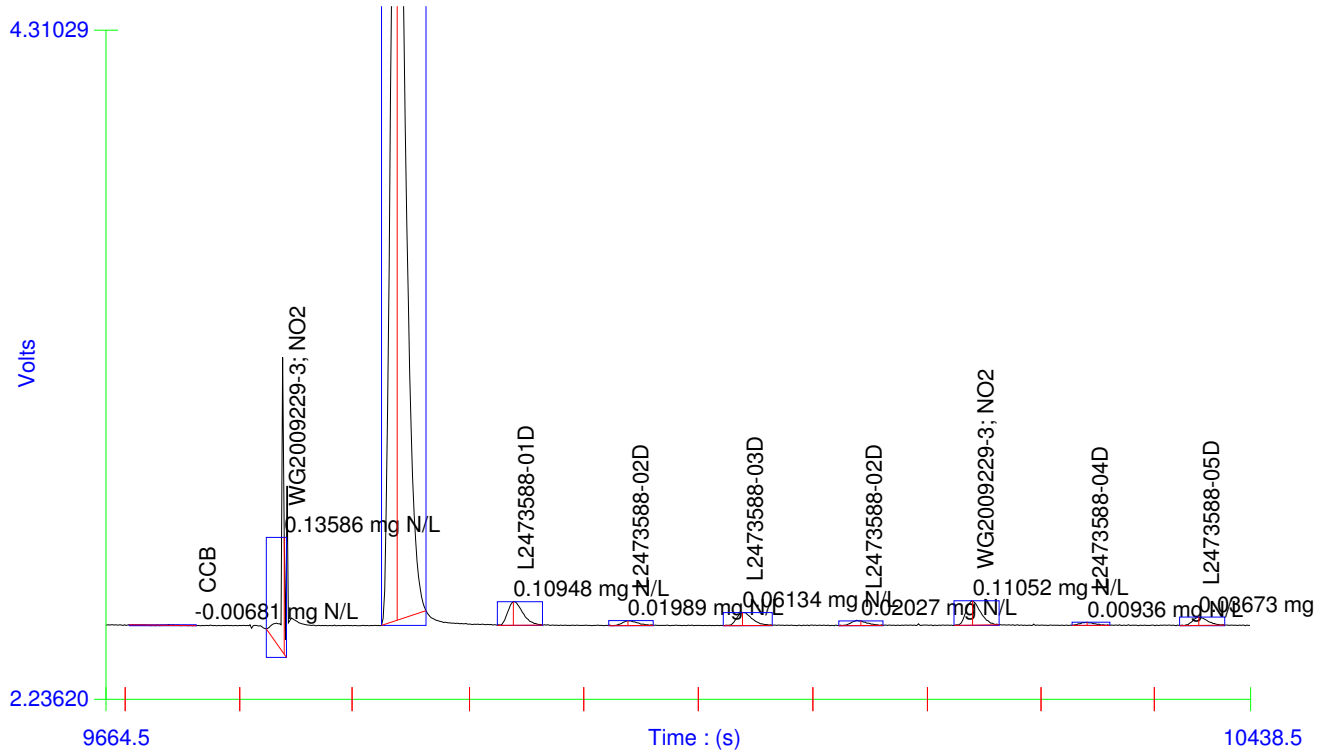
Channel 2 (NO2) - Set: 11 / 20



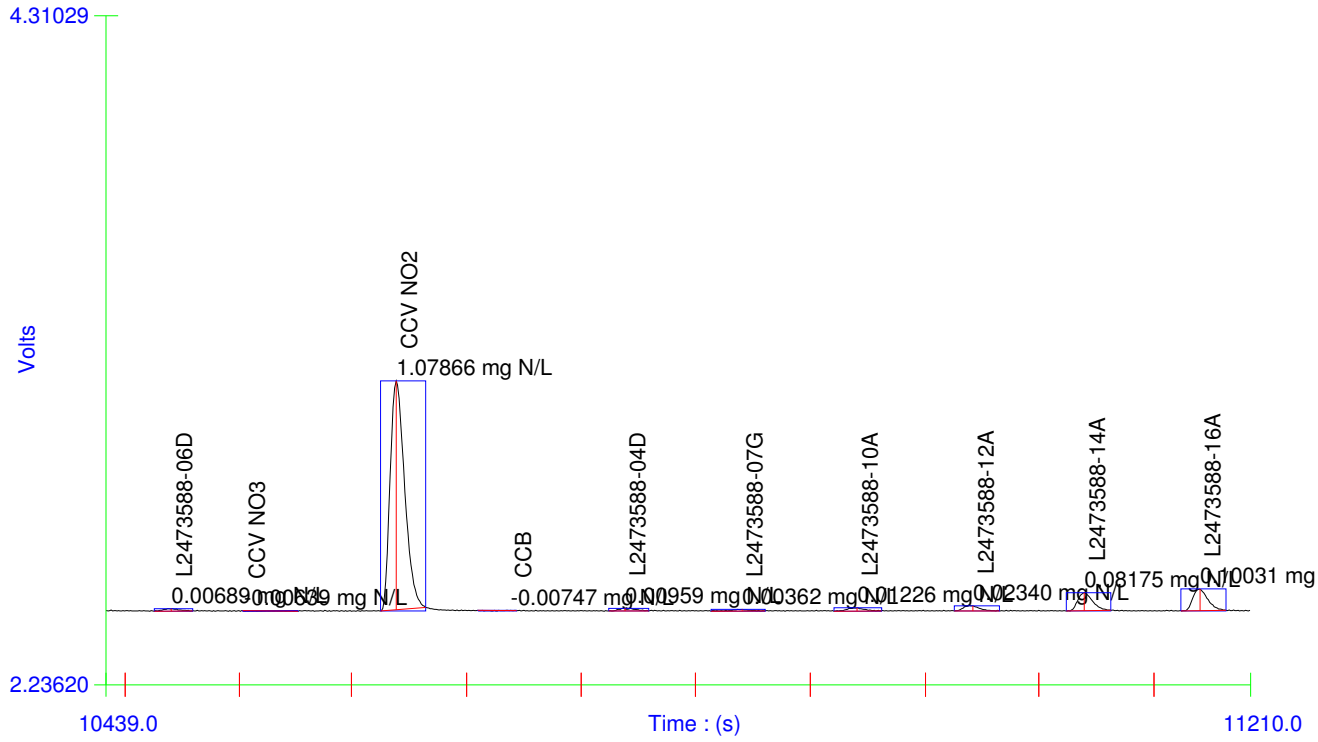
Channel 2 (NO2) - Set: 12 / 20



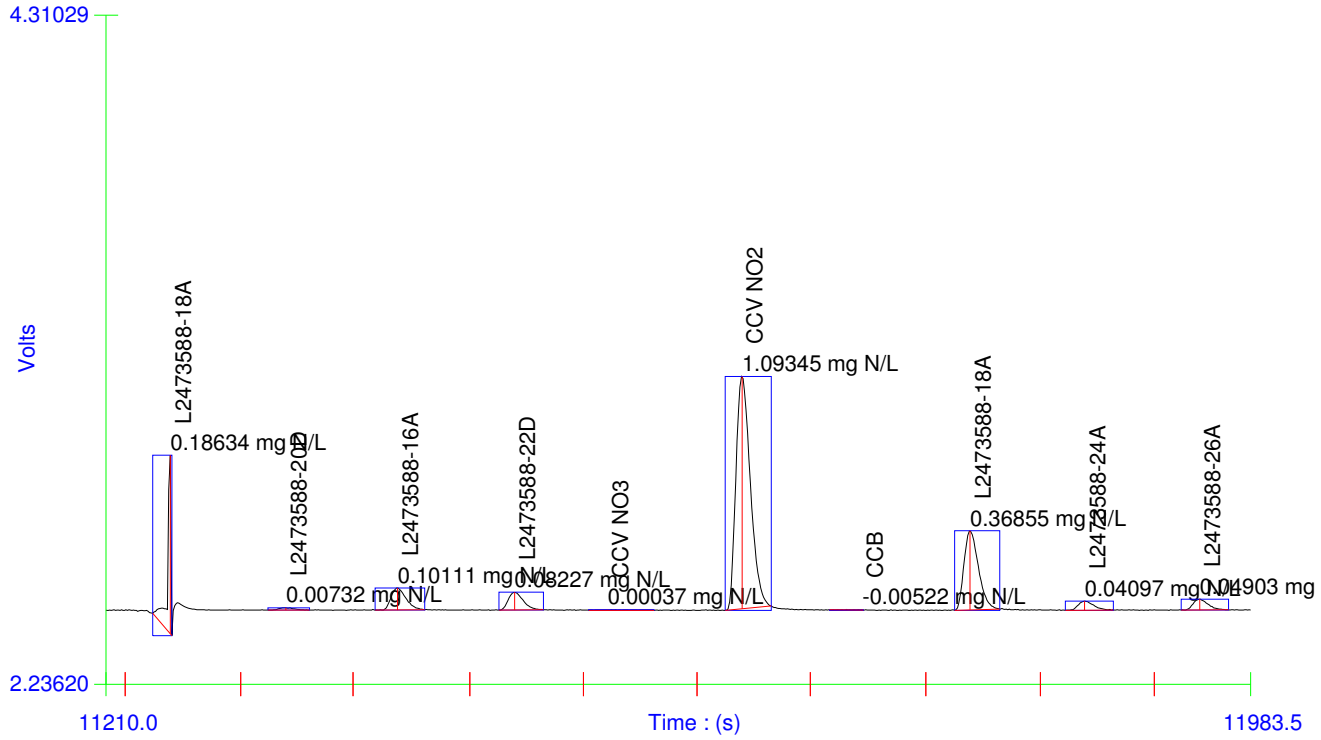
Channel 2 (NO2) - Set: 13 / 20



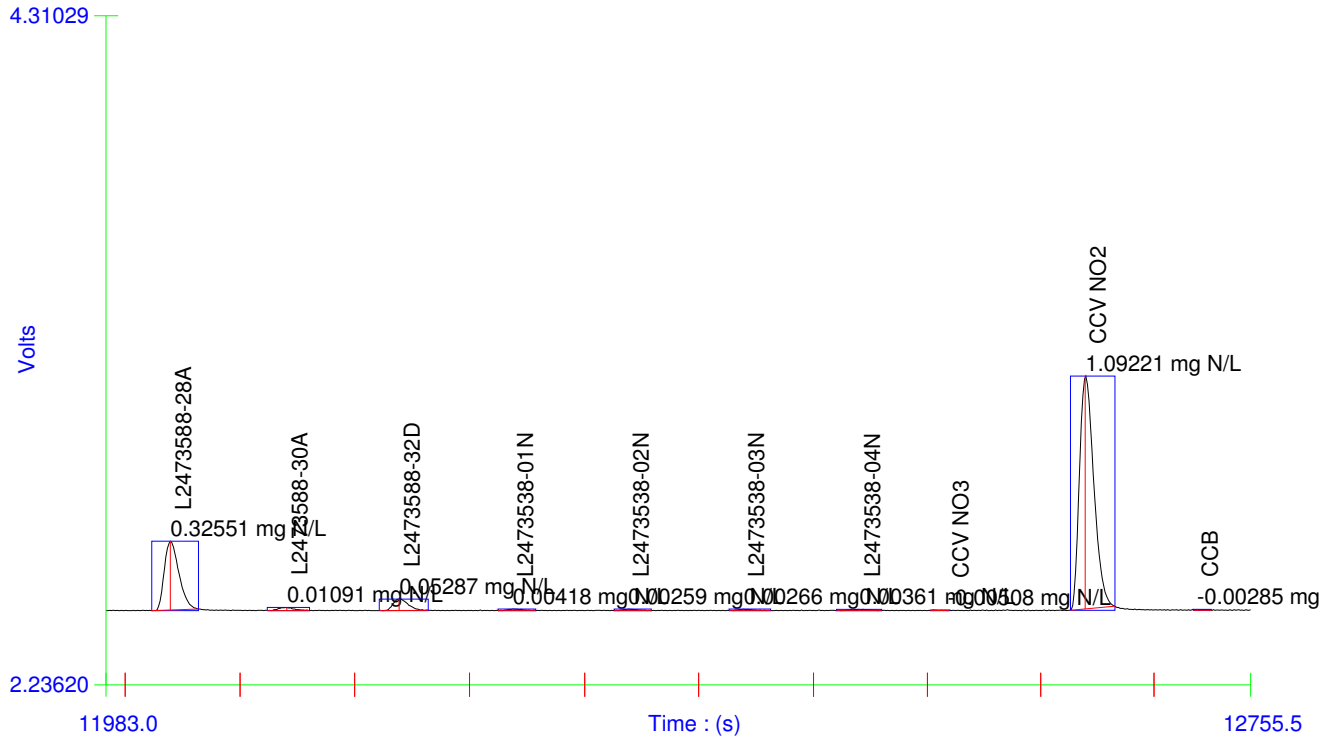
Channel 2 (NO2) - Set: 14 / 20



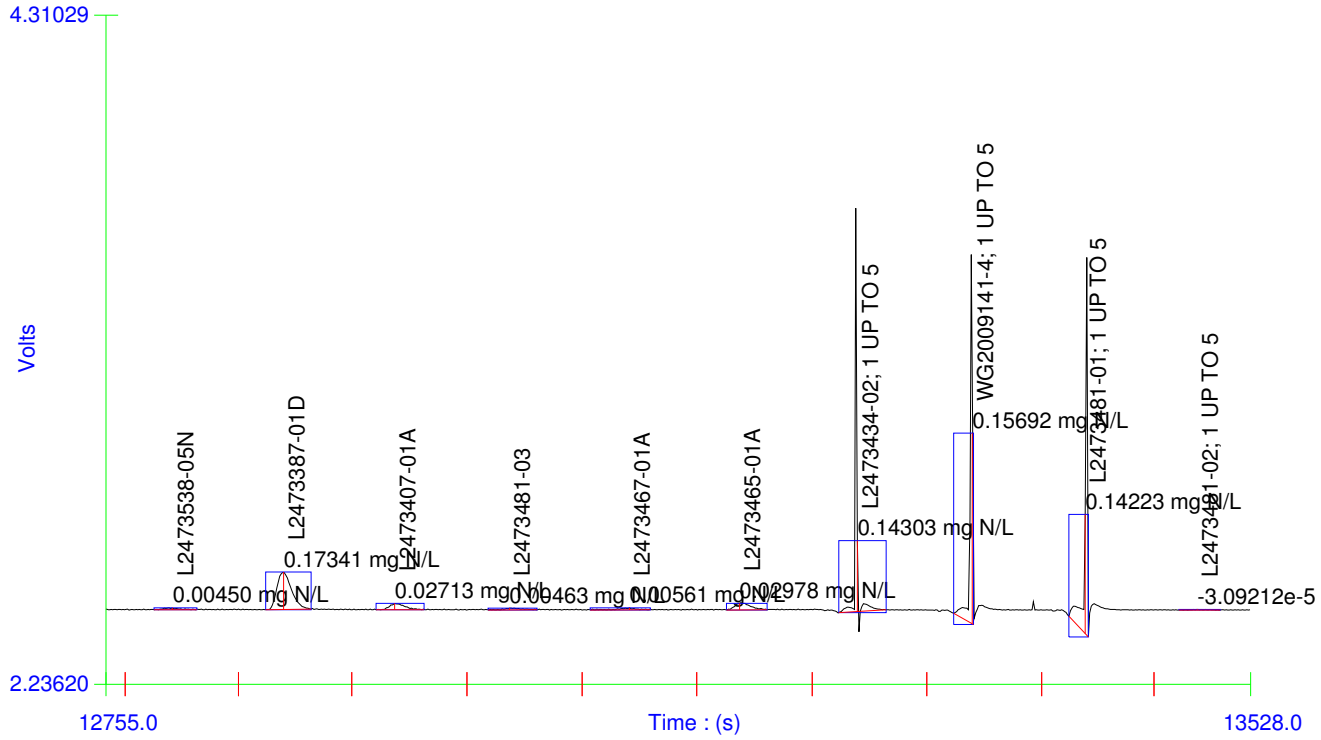
Channel 2 (NO2) - Set: 15 / 20



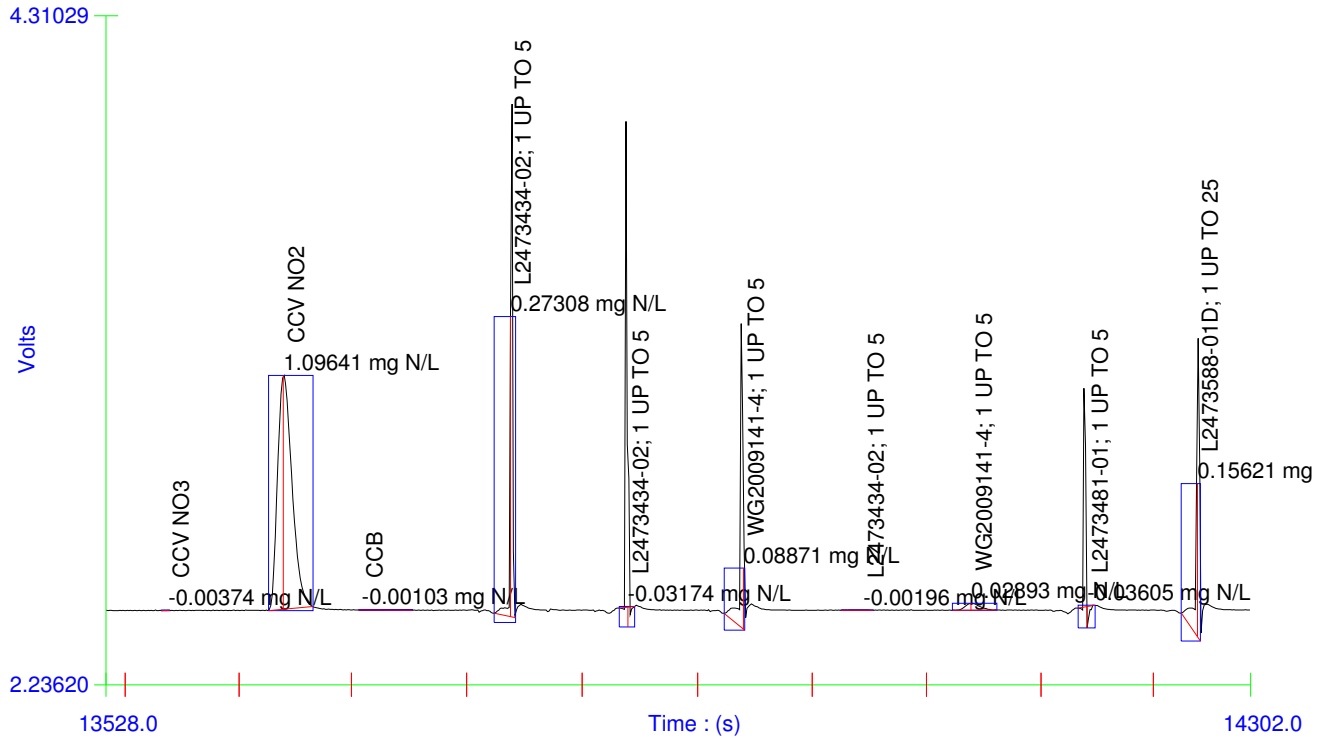
Channel 2 (NO2) - Set: 16 / 20



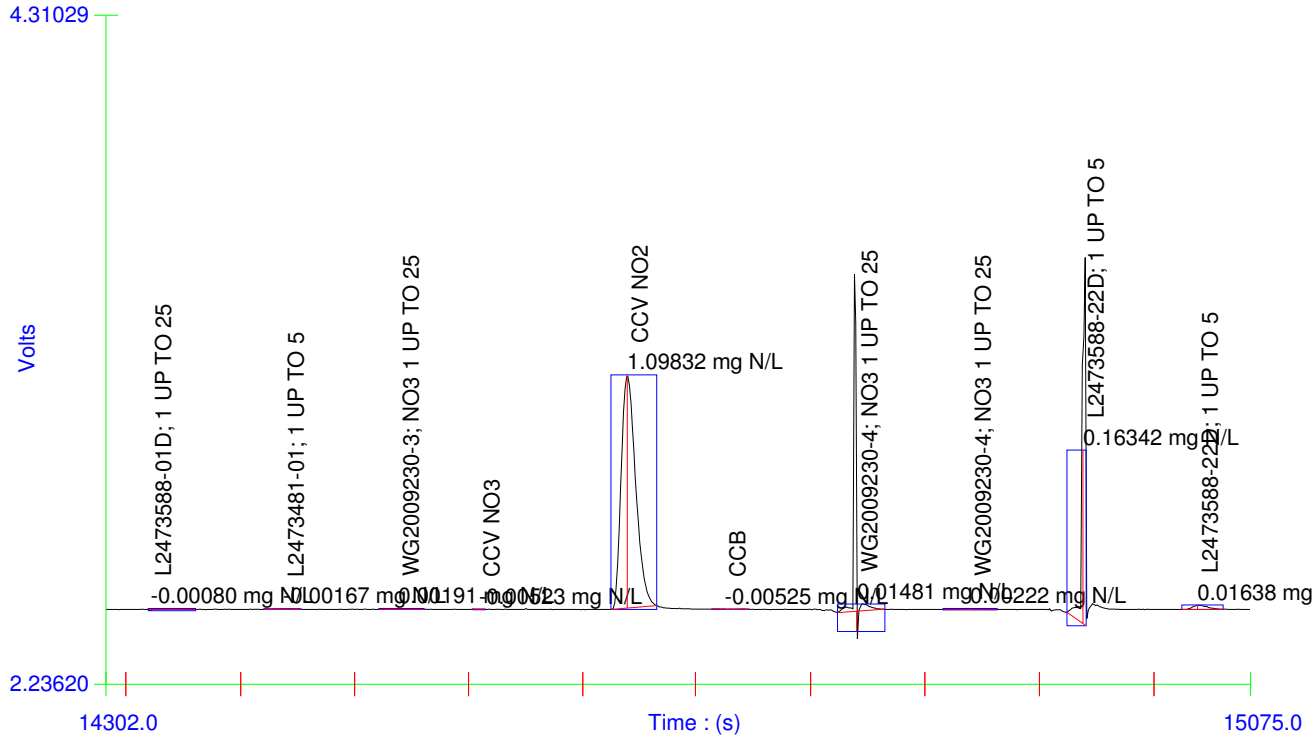
Channel 2 (NO2) - Set: 17 / 20



Channel 2 (NO2) - Set: 18 / 20



Channel 2 (NO2) - Set: 19 / 20



Channel 2 (NO2) - Set: 20 / 20

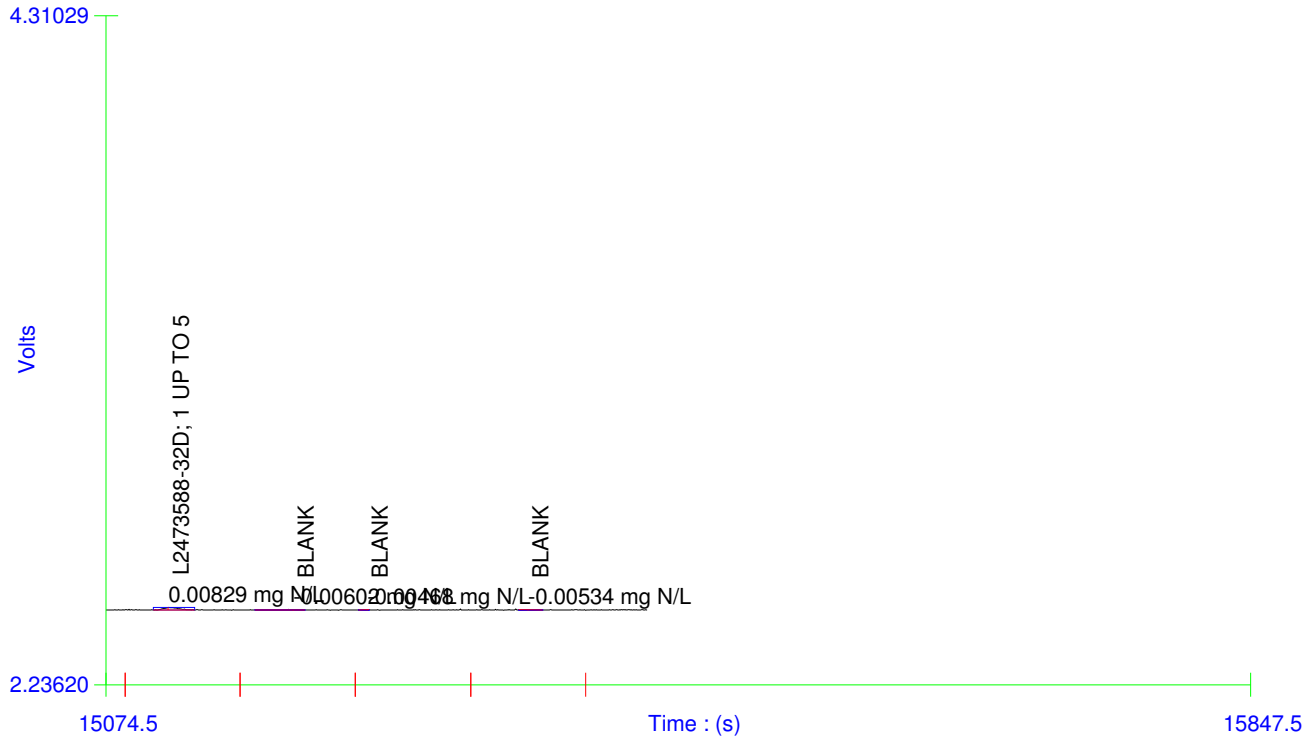


Table : 1 (NO3+NO2)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	8.00000	1	18.30668	1.55486	0.0	2.2	7.81453	12/14/2024	8:51:52 AM
2	4.00000	1	9.64825	0.82856	0.0	-3.0	4.11585	12/14/2024	8:53:10 AM
3	1.00000	1	2.42152	0.20563	0.0	-2.9	1.02877	12/14/2024	8:54:27 AM
4	0.40000	1	0.99520	0.08301	0.0	-4.8	0.41948	12/14/2024	8:55:45 AM
5	0.20000	1	0.49879	0.04017	0.0	-3.6	0.20742	12/14/2024	8:57:03 AM
6	0.10000	1	0.25242	0.02111	0.0	-2.0	0.10218	12/14/2024	8:58:22 AM
7	0.00000	1	-0.02004	-0.00107			-0.01421	12/14/2024	8:59:37 AM

Figure : 1 (NO3+NO2)

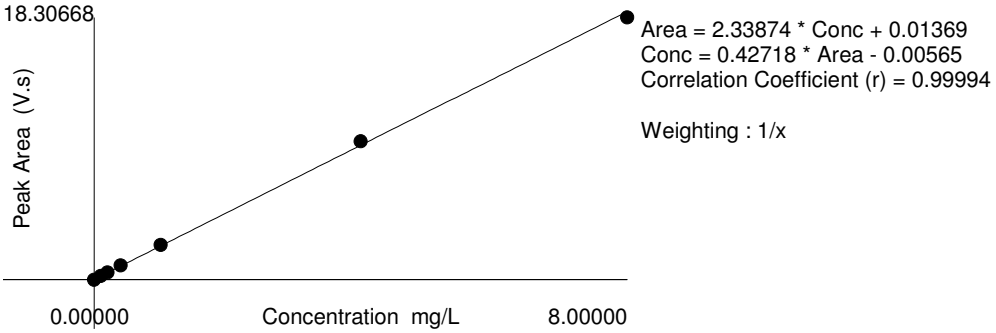
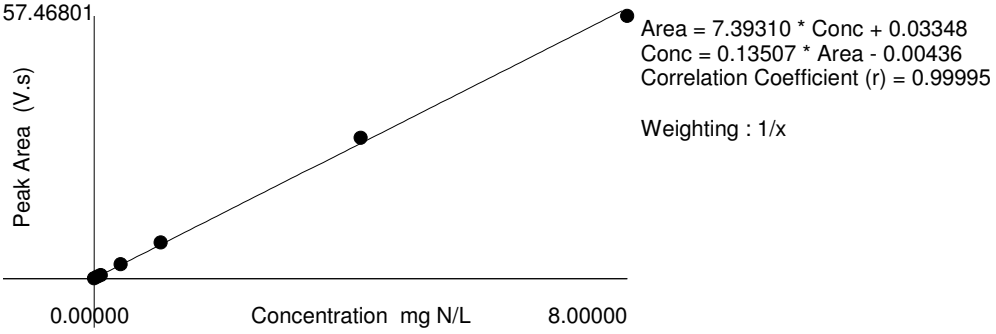


Table : 2 (Nitrite)

	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	8.00000	1	57.46801	4.69323	0.0	2.9	7.75779	12/14/2024	9:00:54 AM
2	4.00000	1	30.81371	2.65626	0.0	-4.1	4.15762	12/14/2024	9:02:12 AM
3	1.00000	1	7.85457	0.67626	0.0	-5.8	1.05655	12/14/2024	9:03:29 AM
4	0.40000	1	3.13553	0.26705	0.0	-4.8	0.41915	12/14/2024	9:04:48 AM
5	0.10000	1	0.73356	0.06116	0.0	5.1	0.09472	12/14/2024	9:06:06 AM
6	0.05000	1	0.37202	0.03120	0.0	7.7	0.04588	12/14/2024	9:07:25 AM
7	0.00000	1	0.04030	0.00184			0.00108	12/14/2024	9:08:41 AM

Figure : 2 (Nitrite)



PACE ANALYTICAL

WET CHEMISTRY DEPARTMENT

NITRITE NITROGEN WORKSHEET

Last Change 03/4/13
File Nitrite-L.xlt

SOP No.: 07-69
Analysis: Nitrite Nitrogen
Method: SM 4500NO2-B
Instrument: SPEC 3
Wavelength: 540 nm
Spike Volume(ml): 1
Spike Concentration (mg/l): 5
LCS Volume(ml): 1
LCS Concentration (mg/l): 8

Product: NO2-4500NO2
Curve Calibration Date : 12/14/2024
Curve Identifier: 121424
Analyte: Nitrogen, Nitrite
Technician: KAF
Work group:
RDL: 0.02 mg/l

Standard ID	Mean signal (pk area) abs	Dilution	Result (mg/l)
0	0.000	1.0	0.0
0.02	0.059	1.0	0.020
0.05	0.150	1.0	0.050
0.1	0.300	1.0	0.099
0.3	0.915	1.0	0.300

Calibration Curve Volume(ml): 50

Slope	y-intercept
3.053883	-0.0022650

Correlation Coefficient
0.999985

ICV/LCS Concentration (mg/l) = 0.16

Reagents/Media Information

Material	Lot No.
ICV/LCS/CCV:	12/10/2024
MS:	12/12/2024
NED Reagent:	12/14/2024
Sulfanilamide:	11/23/2024
Filter Lot:	
Syringe Lot:	

Time	Date	Sample Number	Sample Volume (ml)	Final Volume (ml)	Absorbance	Dilution Factor	RESULT (mg/l)	RDL Multiplier	FINAL RESULT (mg N-NO2/L)	Recovery
8:23	12/14/2024	ICB	25	25	0.001	1	0.001	1	0.00	
8:23	12/14/2024	ICV	25	25	0.502	1	0.165	1	0.17	103%
8:23	12/14/2024	L2473162-01	25	25	0.000	1	0.001	1	0.00	
8:23	12/14/2024	L2473162-02	25	25	0.022	1	0.008	1	0.01	
8:23	12/14/2024	CCV	25	25	0.506	1	0.166	1	0.17	
8:23	12/14/2024	CCB	25	25	0.000	1	0.001	1	0.00	
						#DIV/0!		#DIV/0!		
						#DIV/0!		#DIV/0!		
						#DIV/0!		#DIV/0!		
						#DIV/0!		#DIV/0!		
					0.059	#DIV/0!	0.020	#DIV/0!		
						#DIV/0!		#DIV/0!		
						#DIV/0!		#DIV/0!		
						#DIV/0!		#DIV/0!		
						#DIV/0!		#DIV/0!		
						#DIV/0!		#DIV/0!		
						#DIV/0!		#DIV/0!		
						#DIV/0!		#DIV/0!		
						#DIV/0!		#DIV/0!		
						#DIV/0!		#DIV/0!		
						#DIV/0!		#DIV/0!		
						#DIV/0!		#DIV/0!		
						#DIV/0!		#DIV/0!		
						#DIV/0!		#DIV/0!		
						#DIV/0!		#DIV/0!		
8:23	12/14/2024	BLANK	25	25	0.001	1	0.001	1	0.00	
8:23	12/14/2024	L2473162-01	25	25	0.000	1	0.001	1	0.00	

		Sample number	Sample volume	Final volume	Absorbance	Spike conc. mg/l	Sample Result mg/l	Dilution Factor	Spike Result mg/l	Recovery %
8:23	12/14/2024	L2473162-01	25	25	0.306	0.10	0.00	1	0.10	101
8:23	12/14/2024	LCS	25	50	0.502	0.16		2	0.17	103%

COMMENTS & OBSERVATIONS	SAMPLE RESULTS
	ICB
	ICV
	L2473162-01
	L2473162-02
	CCV
	CCB
	0
	0
	0
	0
	0
	0
	0
	0
	0
	0
	0
	0
	0
	0
	0
	0
	0
	0
BLANK	BLANK
DUP	L2473162-01

	25
LCS	0

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix**	: WATER
Lab Sample ID	: L2473162-06		
Matrix Spike	: WG2009137-4	**MS Analysis Date**	: 12/14/24 09:58
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, Nitrite	ND	4	4.14	104					80-120	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-11S	**Matrix**	: WATER
Lab Sample ID	: L2473162-01		
Matrix Spike	: WG2009965-4	**MS Analysis Date**	: 12/14/24 08:23
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, Nitrite	ND	0.1	0.100	100					85-115	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix**	: WATER
Lab Sample ID	: L2473162-06		
Matrix Spike	: WG2009140-4	**MS Analysis Date**	: 12/14/24 07:24
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, Nitrate	0.677	4	4.54	96					83-113	17

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix**	: WATER
Lab Sample ID	: L2473162-06		
Matrix Spike	: WG2009144-4	**MS Analysis Date**	: 12/14/24 07:24
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, Nitrate/Nitrite	0.68	4	4.5	96					80-120	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix**	: WATER
Lab Sample ID	: L2473162-06	**Analysis Date**	: 12/14/24 09:43
Dup Sample ID	: WG2009137-3	**DUP Analysis Date**	: 12/14/24 09:56

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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-11S	**Matrix**	: WATER
Lab Sample ID	: L2473162-01	**Analysis Date**	: 12/14/24 08:23
Dup Sample ID	: WG2009965-3	**DUP Analysis Date**	: 12/14/24 08:23

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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix**	: WATER
Lab Sample ID	: L2473162-06	**Analysis Date**	: 12/14/24 07:19
Dup Sample ID	: WG2009140-3	**DUP Analysis Date**	: 12/14/24 07:24

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Nitrate	0.677	0.669	1	17

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix**	: WATER
Lab Sample ID	: L2473162-06	**Analysis Date**	: 12/14/24 07:19
Dup Sample ID	: WG2009144-3	**DUP Analysis Date**	: 12/14/24 07:24

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Nitrate/Nitrite	0.68	0.67	1	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2009137-2	**LCS Analysis Date**	: 12/14/24 09:33
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**	**5.03**	**101.**					**90-110**	**20**

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2009965-2	**LCS Analysis Date**	: 12/14/24 08:23
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**
Nitrogen, Nitrite	**0.160**	**0.170**	**106.**					**90-110**	**20**

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2009140-2	**LCS Analysis Date**	: 12/14/24 05:53
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	**5.00**	**4.81**	**96.**					**90-110**	**17**

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2009144-2	**LCS Analysis Date**	: 12/14/24 05:53
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**	**4.80**	**96.**					**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
121424	KAF	Filter Lot:	Filter Lot: 18048470A

Injection #	Rack #	Sample ID:	Comments:
19	RA1	ICV NO3 5	*Buffer: NO3NO2_120624_BUFFER*
20	RA2	ICV NO2 5	*Color: NO3NO2_121424_COLOR*
21	RA3	ICV NO3 0.5	*NO3 MS: NO3_121224_200PPM_CAL*
22	RA4	ICV NO2 0.5	*NO2 MS: NO2_111624_200PPM_CAL*
23	RA5	ICB	*ICV NO3 5: NO3_121424_5PPM_ICV*
24	RA6	5X DILUTER CHECK	*ICV NO2 5: NO2_121224_5PPM_ICV*
25	RA7	BLANK NO3/143/141	*ICV NO3 0.5: NO3_121424_0.5PPM_ICV*
26	RA8	LCS NO3/143/141	*ICV NO2 0.5: NO2_121424_0.5PPM_ICV*
27	RA9	BLANK NO2/137/258/138	
28	RA10	LCS NO2/137/258/138	*OOH*
32	RA11	WG2009134-1; NO2	*DW*
33	RA12	WG2009134-2; NO2	GOING OOH
34	RA13	~~WG2009137-1; NO2~~	FIELD BLANK
35	RA14	~~WG2009137-2; NO2~~	
36	RA15	~~WG2009138-1; NO2~~	
37	RA16	~~WG2009138-2; NO2~~	
38	RA17	WG2009139-1; NO3	
39	RA18	WG2009139-2; NO3	
40	RA19	WG2009140/144-1; NO3	
41	RA20	WG2009140/144-2; NO3	
45	RA21	~~WG2009141/146-1; NO3~~	
46	RA22	~~WG2009141/146-2; NO3~~	
47	RA23	~~WG2009142-1; NO3~~	
48	RA24	~~WG2009142-2; NO3~~	
49	RA25	~~WG2009143-1; NO3~~	
50	RA26	~~WG2009143-2; NO3~~	
51	RA27	L2473051-01	
52	RA28	L2473051-02	
53	RA29	L2473319-03	
54	RA30	L2473319-04	
58; 73	RA31	L2473383-01	
59; 74	RA32	WG2009139-3; NO3	
60; 75	RA33	WG2009139-4; NO3	
61; 76	RA34	WG2009134-3; NO2	
62; 77	RA35	WG2009134-4; NO2	
63; 78	RA36	L2473384-01	
64; 79	RA37	L2473385-01	
65	RA38	WG2009139-5; NO3	
66	RA39	WG2009139-6; NO3	
67	RA40	WG2009134-5; NO2	
83	RA41	WG2009134-6; NO2	
84	RA42	L2473386-01	
85	RA43	L2473389-01	

Injection #	Rack #	Sample ID:	Comments:
86	RA44	L2473390-01	
87	RA45	~~L2473447-01~~	
88	RA46	L2473449-01	
89	RA47	L2473477-01	
90	RA48	L2473477-02	
91	RA49	L2473477-03	
92	RA50	L2473477-04	
96	RA51	~~L2473481-01~~	
97	RA52	~~L2473481-02~~	
98	RA53	~~L2473481-03~~	
99	RA54	L2473556-01	
100	RA55	L2473162-01	
101	RA56	L2473162-02	
102	RA57	L2473162-03	
103	RA58	L2473162-04	
104	RA59	L2473162-05	
105	RA60	L2473162-06/65440-103	
109	RA61	WG2009140/144-3; NO3/258	
110	RA62	WG2009140/144-4; NO3/258	
111	RA63	WG2009137-3; NO2	
112	RA64	WG2009137-4; NO2	
113	RA65	L2473162-07	
114	RA66	L2473162-08	
115	RA67	L2473162-09	
116	RA68	L2473162-10	
117	RA69	L2473323-01	
118	RA70	L2473323-02	
	RA71	L2473323-03	
	RA72	L2473323-04	
	RA73	L2473323-05	
	RA74	L2473210-01	
	RA75	WG2009143-3; NO3	
	RA76	WG2009143-4; NO3	
	RA77	WG2009138-3; NO2	
	RA78	WG2009138-4; NO2	
	RA79	L2473210-02	
	RA80	L2473210-03	
	RA81	L2473210-04	
	RA82	L2473210-05	
	RA83	L2473210-06	
	RA84	L2473210-08	
	RA85	L2473210-09	
	RA86	L2473210-10	
	RA87	L2473210-16	
	RA88	~~L2473434-01~~	
	RA89	~~L2473434-02~~	

Injection #	Rack #	Sample ID:	Comments:
90	RA90	L2473387-01	
91	RB1	WG2009141-3; NO3	
92	RB2	WG2009141-4; NO3	
93	RB3	L2473407-01	
94	RB4	WG2009142-3; NO3	
95	RB5	WG2009142-4; NO3	
96	RB6	L2473407-02	
97	RB7	L2473407-03	
98	RB8	L2473407-04	
99	RB9	L2473414-01	
100	RB10	L2473414-02	
101	RB11	WG2009229-1; NO2	
102	RB12	WG2009229-2; NO2	
103	RB13	~~WG2009230-1; NO3~~	142
104	RB14	~~WG2009230-2; NO3~~	142
105	RB15	L2473484-01	
106	RB16	~~L2473588-01~~	
107	RB17	~~WG2009230-3; NO3~~	
108	RB18	~~WG2009230-4; NO3~~	
109	RB19	~~WG2009229-3; NO2~~	
110	RB20	~~WG2009229-4; NO2~~	
111	RB21	~~L2473588-02~~	
112	RB22	~~L2473588-03~~	
113	RB23	~~L2473588-04~~	
114	RB24	~~L2473588-05~~	
115	RB25	~~L2473588-06~~	
116	RB26	L2473588-07	
117	RB27	~~L2473588-10~~	
118	RB28	~~L2473588-12~~	
119	RB29	~~L2473588-14~~	
120	RB30	~~L2473588-16~~	
121	RB31	~~L2473588-18~~	
122	RB32	~~L2473588-20~~	
123	RB33	~~L2473588-22~~	
124	RB34	~~L2473588-24~~	
125	RB35	~~L2473588-26~~	
126	RB36	~~L2473588-28~~	
127	RB37	~~L2473588-30~~	
128	RB38	~~L2473588-32~~	
129	RB39	~~L2473538-01N~~	
130	RB40	~~L2473538-02N~~	
131	RB41	~~L2473538-03N~~	
132	RB42	~~L2473538-04N~~	
133	RB43	~~L2473538-05N~~	
134	RB44	~~L2473467-01A~~	
135	RB45	~~L2473465-01A~~	

Total Dissolved Solids Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-01	**Date Collected**	:	12/12/24 08:25
Client ID	:	MW-11S	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 01:52
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG2010490.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	110	13	4.0	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-02	**Date Collected**	:	12/12/24 08:42
Client ID	:	MW-11D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 01:52
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG2010490.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	69.	13	4.0	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-03	**Date Collected**	:	12/12/24 09:50
Client ID	:	MW-1SR	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 01:52
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG2010490.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	96.	13	4.0	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-04	**Date Collected**	:	12/12/24 10:10
Client ID	:	MW-1DR2	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 01:52
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG2010490.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	78.	13	4.0	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-05	**Date Collected**	:	12/12/24 11:40
Client ID	:	MP-1	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 01:52
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG2010490.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	110	13	4.0	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-06	**Date Collected**	:	12/12/24 12:05
Client ID	:	MP-1D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 01:52
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG2010490.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	140	13	4.0	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-07	**Date Collected**	:	12/12/24 12:00
Client ID	:	DUP_121224	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 01:52
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG2010490.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	120	13	4.0	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2473162
Project Name	:	CORAM MATERIALS	Project Number	:	2232.0006Y005
Lab ID	:	L2473162-08	Date Collected	:	12/12/24 14:00
Client ID	:	MW-13S	Date Received	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	:	12/18/24 01:52
Sample Matrix	:	WATER	Dilution Factor	:	1.3
Analytical Method	:	121,2540C	Analyst	:	DEW
Lab File ID	:	WG2010490.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	380	13	4.0	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-09	**Date Collected**	:	12/12/24 14:05
Client ID	:	MW-13D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 01:52
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG2010490.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	100	13	4.0	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2473162
Project Name	:	CORAM MATERIALS	Project Number	:	2232.0006Y005
Lab ID	:	L2473162-10	Date Collected	:	12/12/24 13:30
Client ID	:	EB_121224	Date Received	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	:	12/18/24 01:52
Sample Matrix	:	Equipment Blank	Dilution Factor	:	1
Analytical Method	:	121,2540C	Analyst	:	DEW
Lab File ID	:	WG2010490.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**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	WG2010490-1	**Date Collected**	:	NA
Client ID	:	WG2010490-1BLANK	**Date Received**	:	NA
Sample Location	:		**Date Analyzed**	:	12/18/24 01:52
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG2010490.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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010490-3	**Date Collected**	: 12/12/24 12:05
Client ID	: MP-1DDUP	**Date Received**	: 12/12/24
Sample Location	:	**Date Analyzed**	: 12/18/24 01:52
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG2010490.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	100	13	4.0	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010490-4	**Date Collected**	: 12/12/24 12:00
Client ID	: DUP_121224DUP	**Date Received**	: 12/12/24
Sample Location	:	**Date Analyzed**	: 12/18/24 01:52
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG2010490.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	120	13	4.0	

Sample Raw Data

Wet Chemistry Gravimetric ELN

Printed: DEC-19-24 07:41:43

WorkGroup	WG2010490	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**		**Temp In (C)**					
Title	Solids, Total Dissolved	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**		**Temp Out (C)**					
Method	SM2540C	**Time In**	18-DEC-24 23:45	**Time In**	19-DEC-24 04:09	**Time In**	19-DEC-24 05:54	**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	19-DEC-24 03:08	**Time Out**	19-DEC-24 05:51	**Time Out**	19-DEC-24 07:27	**Time Out**		**Time Out**					

Evaporation	**Temp In (C)**	**Time In**	**LCS Lot #**	**TrueValue**	**Units**
	90	18-DEC-24 10:24	112224B	500	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
L2472716-09	18-DEC-24 01:52	DEB WHELAN	K9	77340422	62.4222	80	62.4475	62.4491	62.4495			316.25	1.3	
L2473162-01	18-DEC-24 01:52	DEB WHELAN	V9	77340422	65.0215	80	65.0306	65.0307				113.75	1.3	
L2473162-02	18-DEC-24 01:52	DEB WHELAN	X4	77340422	72.4922	80	72.4977	72.4991	72.4989			68.75	1.3	
L2473162-03	18-DEC-24 01:52	DEB WHELAN	V11	77340422	66.9683	80	66.976	66.9771	66.9768			96.25	1.3	
L2473162-04	18-DEC-24 01:52	DEB WHELAN	K11	77340422	60.9615	80	60.968	60.9677				77.50	1.3	
L2473162-05	18-DEC-24 01:52	DEB WHELAN	R11	77340422	63.4964	80	63.5052	63.5069	63.5063			110.00	1.3	
L2473162-06	18-DEC-24 01:52	DEB WHELAN	X3	77340422	66.7515	80	66.7632	66.763				143.75	1.3	
L2473162-07	18-DEC-24 01:52	DEB WHELAN	V88	77340422	62.4433	80	62.453	62.4555	62.4558			121.25	1.3	
L2473162-08	18-DEC-24 01:52	DEB WHELAN	V3	77340422	62.5513	80	62.5818	62.5819				381.25	1.3	T3
L2473162-09	18-DEC-24 01:52	DEB WHELAN	R4	77340422	65.9929	80	66.0013	66.0009				100.00	1.3	
L2473162-10	18-DEC-24 01:52	DEB WHELAN	R1	77340422	70.543	100	70.5423	70.5422				-8.00	1	EB
L2473300-01	18-DEC-24 01:52	DEB WHELAN	V1	77340422	68.4699	80	68.4897	68.49				247.50	1.3	
L2473300-02	18-DEC-24 01:52	DEB WHELAN	X8	77340422	65.1911	80	65.2246	65.2249				418.75	1.3	
L2473300-03	18-DEC-24 01:52	DEB WHELAN	R5	77340422	63.3571	80	63.3899	63.3995	63.3936			410.00	1.3	
L2473300-04	18-DEC-24 01:52	DEB WHELAN	V12	77340422	63.1069	80	63.3285	63.3286				2770.00	1.3	
L2473300-05	18-DEC-24 01:52	DEB WHELAN	L8	77340422	72.0714	80	72.1216	72.1214				625.00	1.3	
L2473300-06	18-DEC-24 01:52	DEB WHELAN	V2	77340422	63.186	80	63.2344	63.2348				605.00	1.3	
L2473300-07	18-DEC-24 01:52	DEB WHELAN	R2	77340422	62.0646	80	62.0916	62.0914				335.00	1.3	
L2473300-08	18-DEC-24 01:52	DEB WHELAN	K1	77340422	70.7169	80	70.7339	70.7342				212.50	1.3	
L2473300-09	18-DEC-24 01:52	DEB WHELAN	R10	77340422	66.8233	80	66.8417	66.8415				227.50	1.3	
WG2010490-1	18-DEC-24 01:52	DEB WHELAN	R9	77340422	62.954	100	62.9534	62.9531				-9.00	1	T2
WG2010490-2	18-DEC-24 01:52	DEB WHELAN	K12	77340422	61.5569	50	61.578	61.5793	61.5797			422.00	2	

Wet Chemistry Gravimetric ELN

Printed: DEC-19-24 07:41:43

WorkGroup	WG2010490	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**		**Temp In (C)**					
Title	Solids, Total Dissolved	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**		**Temp Out (C)**					
Method	SM2540C	**Time In**	18-DEC-24 23:45	**Time In**	19-DEC-24 04:09	**Time In**	19-DEC-24 05:54	**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	19-DEC-24 03:08	**Time Out**	19-DEC-24 05:51	**Time Out**	19-DEC-24 07:27	**Time Out**		**Time Out**					

Temp In (C)	**Time In**	**LCS Lot #**	**TrueValue**	**Units**
90	18-DEC-24 10:24	112224B	500	mg/l

Sample #	Analysis Date	Analyst	Cup ID			Sample Volume (ml)						Result mg/L	Dil	Comment
WG2010490-3	18-DEC-24 01:52	DEB WHELAN	X91	77340422	60.9357	80	60.9437	60.9457	60.9456			100.00	1.3	
WG2010490-4	18-DEC-24 01:52	DEB WHELAN	K7	77340422	63.2547	80	63.2646	63.2654	63.2653			123.75	1.3	

Quality Control

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix**	: WATER
Lab Sample ID	: L2473162-06	**Analysis Date**	: 12/18/24 01:52
Dup Sample ID	: WG2010490-3	**DUP Analysis Date**	: 12/18/24 01:52

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	140	100	33 Q	10

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: DUP_121224	**Matrix**	: WATER
Lab Sample ID	: L2473162-07	**Analysis Date**	: 12/18/24 01:52
Dup Sample ID	: WG2010490-4	**DUP Analysis Date**	: 12/18/24 01:52

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	120	120	0	10

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2010490-2	**LCS Analysis Date**	: 12/18/24 01:52
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
Solids, Total Dissolved	500.	420.	84.					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**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-01	**Date Collected**	:	12/12/24 08:25
Client ID	:	MW-11S	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 11:30
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG2010681.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	6.9	10	1.4	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-02	**Date Collected**	:	12/12/24 08:42
Client ID	:	MW-11D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 11:30
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG2010681.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	29.	10	1.4	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-03	**Date Collected**	:	12/12/24 09:50
Client ID	:	MW-1SR	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 11:30
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG2010681.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/18/24

		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**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-04	**Date Collected**	:	12/12/24 10:10
Client ID	:	MW-1DR2	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 11:30
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG2010681.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	14.	10	1.4	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-05	**Date Collected**	:	12/12/24 11:40
Client ID	:	MP-1	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 11:30
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG2010681.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/18/24

		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**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-06	**Date Collected**	:	12/12/24 12:05
Client ID	:	MP-1D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 11:30
Sample Matrix	:	WATER	**Dilution Factor**	:	2
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG2010681.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	38.	20	2.7	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-07	**Date Collected**	:	12/12/24 12:00
Client ID	:	DUP_121224	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 11:30
Sample Matrix	:	WATER	**Dilution Factor**	:	2
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG2010681.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	36.	20	2.7	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-08	**Date Collected**	:	12/12/24 14:00
Client ID	:	MW-13S	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 11:30
Sample Matrix	:	WATER	**Dilution Factor**	:	2.5
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG2010681.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	48.	25	3.4	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-09	**Date Collected**	:	12/12/24 14:05
Client ID	:	MW-13D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 11:30
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG2010681.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/18/24

		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**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-10	**Date Collected**	:	12/12/24 13:30
Client ID	:	EB_121224	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 11:30
Sample Matrix	:	Equipment Blank	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG2010681.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	1.9	10	1.4	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010681-1	**Date Collected**	: NA
Client ID	: WG2010681-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/18/24 11:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG2010681.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	1.9	10	1.4	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010681-3	**Date Collected**	: 12/12/24 12:05
Client ID	: MP-1DDUP	**Date Received**	: 12/12/24
Sample Location	:	**Date Analyzed**	: 12/18/24 11:30
Sample Matrix	: WATER	**Dilution Factor**	: 2
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG2010681.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	38.	20	2.7	

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;wc3437
LCS;wc3373

Sample Number: _____ **Product:** **SO4-4500** **Reagent;lot A4251**
Curve Calibration Date : 12/18/24 Pippette/s: 322, 424
Client: _____ **Curve Identifier:** 12/18/2024 Acrodisk: FJ5503
Analysis: **Sulfate, SO4** **Analysis Analyte:** **Sulfate** **Syringe: 2125536**
Method: **SM 4500SO4-E** **Analysis Date:** 12/18/2024 11:30
Instrument: **SPEC6** **Preparation Date:** 12/18/2024 11:30
Wavelength: **420 nm** **Technician:** MRW
Spike Volume(ml): **0.5** **Work group:** WG2010681
Spike Concentration (mg/l): **1000** **RL:** **10 mg/l**
Cell: **2.5 cm**

Standard ID	Mean signal (pk area) abs	Dilution	Calc-ed Result
0	0.000	1.0	1.71
10	0.134	1.0	8.27
20	0.357	1.0	19.2
40	0.800	1.0	40.8

Calibration Curve
Volume: 25 ml

Slope	y-intercept
0.020443	-0.035

Correlation Coefficient
0.995838

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	0.002	0.002	1.940	1	1.0	1.9	**Recovery**
	ICV	25	25	0	0.397	0.397	21.102	1	1.0	21.1	106%
	L2472614-04	25	25	0.003	0.558	0.555	28.767	1	1.0	28.8	**FILTERED**
SAMP	L2473162-01	25	25	0.001	0.105	0.104	6.888	1	1.0	6.9	
SAMP	L2473162-02	25	25	0.091	0.645	0.554	28.718	1	1.0	28.7	
SAMP	L2473162-03	25	25	0.003	0.213	0.210	12.030	1	1.0	12.0	
SAMP	L2473162-04	25	25	0.037	0.297	0.260	14.456	1	1.0	14.5	
SAMP	L2473162-05	25	25	0.001	0.306	0.305	16.639	1	1.0	16.6	
SAMP	L2473162-06	12.5	25	0.018	0.367	0.349	18.773	1	2.0	37.5	
SAMP	L2473162-07	12.5	25	0.016	0.349	0.333	17.997	1	2.0	36.0	
	CCV1	25	25	0	0.393	0.393	20.908	1	1.0	20.9	
	CCB1	25	25	0	0.003	0.003	1.989	1	1.0	2.0	
SAMP	L2473162-08	10	25	0.002	0.361	0.359	19.259	1	2.5	48.1	
SAMP	L2473162-09	25	25	0.003	0.216	0.213	12.176	1	1.0	12.2	
SAMP	L2473162-10	25	25	0.001	0.002	0.001	1.892	1	1.0	1.9	
SAMP	L2473292-01	12.5	25	0.007	0.476	0.469	24.595	1	2.0	49.2	
SAMP	L2473292-02	25	25	0.078	0.212	0.134	8.344	1	1.0	8.3	
SAMP	L2473292-03	25	25	0.017	0.222	0.205	11.788	1	1.0	11.8	
SAMP	L2473292-04	25	25	0.006	0.105	0.099	6.646	1	1.0	6.6	
	CCV2	25	25	0	0.386	0.386	20.568	1	1.0	20.6	
	CCB2	25	25	0	0.003	0.003	1.989	1	1.0	2.0	
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
BLANK	WG2010681-1	25	25	0.000	0.002	0.002	1.940	1	1.0	1.9	
DUP	WG2010681-3	12.5	25	0.02	0.373	0.353	18.967	1	2.0	37.9	**L2473162-06**

	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	WG2010681-4	5	25	0.012	0.555	0.543	37.500	5	100.0000	141	**103**
											L2473162-06
LCS	WG2010681-2	25	25	0	0.397	0.397		1	20.0000	21	**106**

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix**	: WATER
Lab Sample ID	: L2473162-06		
Matrix Spike	: WG2010681-4	**MS Analysis Date**	: 12/18/24 11:30
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	38.	100	140	103					55-147	14

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix**	: WATER
Lab Sample ID	: L2473162-06	**Analysis Date**	: 12/18/24 11:30
Dup Sample ID	: WG2010681-3	**DUP Analysis Date**	: 12/18/24 11:30

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Sulfate	38.	38.	0	14

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2010681-2	**LCS Analysis Date**	: 12/18/24 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	21.0	105.					90-110	14

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
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.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
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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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-01	**Date Collected**	: 12/12/24 08:25
Client ID	: MW-11S	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 08:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 241218_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	100.	2.00	NA	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-02	**Date Collected**	:	12/12/24 08:42
Client ID	:	MW-11D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 08:58
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,2320B	**Analyst**	:	MKT
Lab File ID	:	241218_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	35.0	2.00	NA	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-03	**Date Collected**	:	12/12/24 09:50
Client ID	:	MW-1SR	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 09:00
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,2320B	**Analyst**	:	MKT
Lab File ID	:	241218_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	59.7	2.00	NA	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-04	**Date Collected**	:	12/12/24 10:10
Client ID	:	MW-1DR2	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 09:03
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,2320B	**Analyst**	:	MKT
Lab File ID	:	241218_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	30.9	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-05	**Date Collected**	: 12/12/24 11:40
Client ID	: MP-1	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 09:04
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 241218_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	57.0	2.00	NA	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-06	**Date Collected**	:	12/12/24 12:05
Client ID	:	MP-1D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 09:07
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,2320B	**Analyst**	:	MKT
Lab File ID	:	241218_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	49.6	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-07	**Date Collected**	: 12/12/24 12:00
Client ID	: DUP_121224	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 09:16
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 241218_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	49.1	2.00	NA	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-08	**Date Collected**	:	12/12/24 14:00
Client ID	:	MW-13S	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 09:18
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,2320B	**Analyst**	:	MKT
Lab File ID	:	241218_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	265.	2.00	NA	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-09	**Date Collected**	:	12/12/24 14:05
Client ID	:	MW-13D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 09:25
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,2320B	**Analyst**	:	MKT
Lab File ID	:	241218_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	20.3	2.00	NA	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-10	**Date Collected**	:	12/12/24 13:30
Client ID	:	EB_121224	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 09:26
Sample Matrix	:	Equipment Blank	**Dilution Factor**	:	1
Analytical Method	:	121,2320B	**Analyst**	:	MKT
Lab File ID	:	241218_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**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	WG2010642-5	**Date Collected**	:	NA
Client ID	:	WG2010642-5BLANK	**Date Received**	:	NA
Sample Location	:		**Date Analyzed**	:	12/18/24 08:50
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,2320B	**Analyst**	:	MKT
Lab File ID	:	241218_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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010642-7	**Date Collected**	: 11/08/24 00:00
Client ID	: WG2010642-7 DUP	**Date Received**	: 11/08/24
Sample Location	:	**Date Analyzed**	: 12/18/24 09:09
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 241218_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	49.2	2.00	NA	
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U

Sample Raw Data

Results Editor

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
	6.940	pH		-58.10	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
--	7.03	pH		12/18/2024	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	7.11 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.865 mL	OK
		Consumption 4.2 R3	0.869 mL	OK
		Content R5	17.300 mg/L	OK
		ALK LOW R6	17.220 mg/L	OK
2	Rinse,MKT	Sample size	50 mL	
		Potential R4	5.06 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.033 mL	OK
		Consumption 4.2 R3	0.037 mL	OK
		Content R5	0.660 mg/L	OK
		ALK LOW R6	0.580 mg/L	OK
3	WG2010642-5	Sample size	50 mL	
		Potential R4	4.75 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.014 mL	OK
		Consumption 4.2 R3	0.023 mL	OK
		Content R5	0.280 mg/L	OK
		ALK LOW R6	0.100 mg/L	OK
4	WG2010642-6	Sample size	50 mL	
		Potential R4	10.66 pH	OK
		Consumption 8.3 R1	4.665 mL	OK
		Consumption 4.5 R2	5.095 mL	OK
		Consumption 4.2 R3	5.097 mL	OK
		Content R5	101.900 mg/L	OK
		ALK LOW R6	101.860 mg/L	OK
5	I2473162-01	Sample size	50 mL	
		Potential R4	5.35 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.023 mL	OK
		Consumption 4.2 R3	5.113 mL	OK
		Content R5	100.460 mg/L	OK
		ALK LOW R6	98.660 mg/L	OK
6	I2473162-02	Sample size	50 mL	

Titration report

		Potential R4	5.23 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.751 mL	OK
		Consumption 4.2 R3	1.802 mL	OK
		Content R5	35.020 mg/L	OK
		ALK LOW R6	34.000 mg/L	OK
7	I2473162-03	Sample size	50 mL	
		Potential R4	5.43 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.983 mL	OK
		Consumption 4.2 R3	3.027 mL	OK
		Content R5	59.660 mg/L	OK
		ALK LOW R6	58.780 mg/L	OK
8	I2473162-04	Sample size	50 mL	
		Potential R4	5.24 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.546 mL	OK
		Consumption 4.2 R3	1.586 mL	OK
		Content R5	30.920 mg/L	OK
		ALK LOW R6	30.120 mg/L	OK
9	I2473162-05	Sample size	50 mL	
		Potential R4	5.36 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.849 mL	OK
		Consumption 4.2 R3	2.877 mL	OK
		Content R5	56.980 mg/L	OK
		ALK LOW R6	56.420 mg/L	OK
10	I2473162-06	Sample size	50 mL	
		Potential R4	5.32 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.480 mL	OK
		Consumption 4.2 R3	2.535 mL	OK
		Content R5	49.600 mg/L	OK
		ALK LOW R6	48.500 mg/L	OK
11	WG2010642-7	Sample size	50 mL	
		Potential R4	5.35 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.459 mL	OK
		Consumption 4.2 R3	2.500 mL	OK
		Content R5	49.180 mg/L	OK
		ALK LOW R6	48.360 mg/L	OK
12	WG2010642-8	Sample size	50 mL	
		Potential R4	8.94 pH	OK
		Consumption 8.3 R1	2.120 mL	OK
		Consumption 4.5 R2	7.896 mL	OK
		Consumption 4.2 R3	7.915 mL	OK
		Content R5	157.920 mg/L	OK

Titration report

		ALK LOW R6	157.540 mg/L	OK
13	I2473162-07	Sample size	50 mL	
		Potential R4	5.37 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.455 mL	OK
		Consumption 4.2 R3	2.493 mL	OK
		Content R5	49.100 mg/L	OK
		ALK LOW R6	48.340 mg/L	OK
14	I2473162-08	Sample size	50 mL	
		Potential R4	5.83 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	13.269 mL	OK
		Consumption 4.2 R3	13.452 mL	OK
		Content R5	265.380 mg/L	OK
		ALK LOW R6	261.720 mg/L	OK
15	I2473162-09	Sample size	50 mL	
		Potential R4	5.26 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.014 mL	OK
		Consumption 4.2 R3	1.037 mL	OK
		Content R5	20.280 mg/L	OK
		ALK LOW R6	19.820 mg/L	OK
16	I2473162-10	Sample size	50 mL	
		Potential R4	5.15 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.063 mL	OK
		Consumption 4.2 R3	0.084 mL	OK
		Content R5	1.260 mg/L	OK
		ALK LOW R6	0.840 mg/L	OK
17	I2473323-01	Sample size	50 mL	
		Potential R4	5.08 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.590 mL	OK
		Consumption 4.2 R3	0.637 mL	OK
		Content R5	11.800 mg/L	OK
		ALK LOW R6	10.860 mg/L	OK
18	I2473323-02	Sample size	50 mL	
		Potential R4	5.12 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.687 mL	OK
		Consumption 4.2 R3	0.726 mL	OK
		Content R5	13.740 mg/L	OK
		ALK LOW R6	12.960 mg/L	OK
19	I2473323-03	Sample size	50 mL	
		Potential R4	4.91 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.403 mL	OK

Titration report

		Consumption 4.2 R3	0.449 mL	OK
		Content R5	8.060 mg/L	OK
		ALK LOW R6	7.140 mg/L	OK
20	I2473323-04	Sample size	50 mL	
		Potential R4	5.64 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.472 mL	OK
		Consumption 4.2 R3	5.513 mL	OK
		Content R5	109.440 mg/L	OK
		ALK LOW R6	108.620 mg/L	OK
21	I2473323-05	Sample size	50 mL	
		Potential R4	5.64 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.584 mL	OK
		Consumption 4.2 R3	5.663 mL	OK
		Content R5	111.680 mg/L	OK
		ALK LOW R6	110.100 mg/L	OK
22	I2473205-01	Sample size	50 mL	
		Potential R4	5.81 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	9.645 mL	OK
		Consumption 4.2 R3	9.766 mL	OK
		Content R5	192.900 mg/L	OK
		ALK LOW R6	190.480 mg/L	OK
23	I2473205-02	Sample size	50 mL	
		Potential R4	5.38 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.391 mL	OK
		Consumption 4.2 R3	1.418 mL	OK
		Content R5	27.820 mg/L	OK
		ALK LOW R6	27.280 mg/L	OK
24	I2473205-03	Sample size	50 mL	
		Potential R4	5.61 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.494 mL	OK
		Consumption 4.2 R3	5.576 mL	OK
		Content R5	109.880 mg/L	OK
		ALK LOW R6	108.240 mg/L	OK
25	I2473205-04	Sample size	50 mL	
		Potential R4	5.66 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.135 mL	OK
		Consumption 4.2 R3	6.207 mL	OK
		Content R5	122.700 mg/L	OK
		ALK LOW R6	121.260 mg/L	OK
26	CCV	Sample size	50 mL	
		Potential R4	11.70 pH	OK

Titration report

		Consumption 8.3 R1	4.659 mL	OK
		Consumption 4.5 R2	5.050 mL	OK
		Consumption 4.2 R3	5.051 mL	OK
		Content R5	101.000 mg/L	OK
		ALK LOW R6	100.980 mg/L	OK
27	CCB	Sample size	50 mL	
		Potential R4	5.28 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.037 mL	OK
		Consumption 4.2 R3	0.045 mL	OK
		Content R5	0.740 mg/L	OK
		ALK LOW R6	0.580 mg/L	OK
28	xl2474270-01	Sample size	50 mL	
		Potential R4	6.03 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.803 mL	OK
		Consumption 4.2 R3	1.055 mL	OK
		Content R5	16.060 mg/L	OK
		ALK LOW R6	11.020 mg/L	OK
29	xDUP	Sample size	50 mL	
		Potential R4	5.43 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.572 mL	OK
		Consumption 4.2 R3	0.654 mL	OK
		Content R5	11.440 mg/L	OK
		ALK LOW R6	9.800 mg/L	OK
30	xl2474270-02	Sample size	50 mL	
		Potential R4	5.49 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.052 mL	OK
		Consumption 4.2 R3	1.110 mL	OK
		Content R5	21.040 mg/L	OK
		ALK LOW R6	19.880 mg/L	OK
31	l2472989-01	Sample size	50 mL	
		Potential R4	6.44 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.098 mL	OK
		Consumption 4.2 R3	8.174 mL	OK
		Content R5	161.960 mg/L	OK
		ALK LOW R6	160.440 mg/L	OK
32	l2472989-02 5x+10	Sample size	50 mL	
		Potential R4	3.46 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

Titration report

33	I2472989-02 2x	Sample size	50 mL	
		Potential R4	6.36 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	17.729 mL	OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	354.580 mg/L	OK
		ALK LOW R6	NaN mg/L	Not OK
34	I2472989-03	Sample size	50 mL	
		Potential R4	6.65 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
35	I2472989-04	Sample size	50 mL	
		Potential R4	9.33 pH	OK
		Consumption 8.3 R1	2.738 mL	OK
		Consumption 4.5 R2	11.973 mL	OK
		Consumption 4.2 R3	12.084 mL	OK
		Content R5	239.460 mg/L	OK
		ALK LOW R6	237.240 mg/L	OK
36	I2472989-05	Sample size	50 mL	
		Potential R4	5.71 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.556 mL	OK
		Consumption 4.2 R3	3.592 mL	OK
		Content R5	71.120 mg/L	OK
		ALK LOW R6	70.400 mg/L	OK
37	I2472989-07	Sample size	50 mL	
		Potential R4	6.30 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.733 mL	OK
		Consumption 4.2 R3	8.808 mL	OK
		Content R5	174.660 mg/L	OK
		ALK LOW R6	173.160 mg/L	OK
38	I2473423-01	Sample size	50 mL	
		Potential R4	5.42 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.027 mL	OK
		Consumption 4.2 R3	1.052 mL	OK
		Content R5	20.540 mg/L	OK
		ALK LOW R6	20.040 mg/L	OK
39	I2473423-02	Sample size	50 mL	
		Potential R4	5.41 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.124 mL	OK
		Consumption 4.2 R3	3.264 mL	OK

Titration report

		Content R5	62.480 mg/L	OK
		ALK LOW R6	59.680 mg/L	OK
40	I2473423-03	Sample size	50 mL	
		Potential R4	5.36 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.043 mL	OK
		Consumption 4.2 R3	1.107 mL	OK
		Content R5	20.860 mg/L	OK
		ALK LOW R6	19.580 mg/L	OK
41	I2473423-04	Sample size	50 mL	
		Potential R4	5.40 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.784 mL	OK
		Consumption 4.2 R3	1.822 mL	OK
		Content R5	35.680 mg/L	OK
		ALK LOW R6	34.920 mg/L	OK
42	I2473423-05	Sample size	50 mL	
		Potential R4	5.76 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.695 mL	OK
		Consumption 4.2 R3	5.789 mL	OK
		Content R5	113.900 mg/L	OK
		ALK LOW R6	112.020 mg/L	OK
43	I2473423-06	Sample size	50 mL	
		Potential R4	5.10 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.506 mL	OK
		Consumption 4.2 R3	0.545 mL	OK
		Content R5	10.120 mg/L	OK
		ALK LOW R6	9.340 mg/L	OK
44	I2473423-07	Sample size	50 mL	
		Potential R4	4.47 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.060 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
45	I2473423-08	Sample size	50 mL	
		Potential R4	5.12 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.005 mL	OK
		Consumption 4.2 R3	1.073 mL	OK
		Content R5	20.100 mg/L	OK
		ALK LOW R6	18.740 mg/L	OK
46	I2473669-01	Sample size	50 mL	
		Potential R4	5.72 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK

Titration report

		Consumption 4.5 R2	6.054 mL	OK
		Consumption 4.2 R3	6.148 mL	OK
		Content R5	121.080 mg/L	OK
		ALK LOW R6	119.200 mg/L	OK
47	I2473669-02	Sample size	50 mL	
		Potential R4	5.47 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.287 mL	OK
		Consumption 4.2 R3	1.331 mL	OK
		Content R5	25.740 mg/L	OK
		ALK LOW R6	24.860 mg/L	OK
48	WG2010763-3	Sample size	50 mL	
		Potential R4	5.39 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.260 mL	OK
		Consumption 4.2 R3	1.298 mL	OK
		Content R5	25.200 mg/L	OK
		ALK LOW R6	24.440 mg/L	OK
49	WG2010763-4	Sample size	50 mL	
		Potential R4	6.87 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.950 mL	OK
		Consumption 4.2 R3	5.983 mL	OK
		Content R5	119.000 mg/L	OK
		ALK LOW R6	118.340 mg/L	OK
50	I2472989-03 2x	Sample size	50 mL	
		Potential R4	6.43 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	11.364 mL	OK
		Consumption 4.2 R3	11.449 mL	OK
		Content R5	227.280 mg/L	OK
		ALK LOW R6	225.580 mg/L	OK
51	WG2010763-2	Sample size	50 mL	
		Potential R4	10.70 pH	OK
		Consumption 8.3 R1	4.639 mL	OK
		Consumption 4.5 R2	5.011 mL	OK
		Consumption 4.2 R3	5.012 mL	OK
		Content R5	100.220 mg/L	OK
		ALK LOW R6	100.200 mg/L	OK
52	WG2010763-1	Sample size	50 mL	
		Potential R4	5.54 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.070 mL	OK
		Consumption 4.2 R3	0.111 mL	OK
		Content R5	1.400 mg/L	OK
		ALK LOW R6	0.580 mg/L	OK
53	xI2474067-02	Sample size	50 mL	

Titration report

		Potential R4	6.14 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
54	xl2474067-02 2x+10	Sample size	50 mL	
		Potential R4	6.12 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	9.754 mL	OK
		Consumption 4.2 R3	9.994 mL	OK
		Content R5	195.080 mg/L	OK
		ALK LOW R6	190.280 mg/L	OK
55	l2473893-01	Sample size	50 mL	
		Potential R4	6.00 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.995 mL	OK
		Consumption 4.2 R3	5.007 mL	OK
		Content R5	99.900 mg/L	OK
		ALK LOW R6	99.660 mg/L	OK
56	WG2010851-3	Sample size	50 mL	
		Potential R4	5.99 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.033 mL	OK
		Consumption 4.2 R3	5.067 mL	OK
		Content R5	100.660 mg/L	OK
		ALK LOW R6	99.980 mg/L	OK
57	WG2010851-4	Sample size	50 mL	
		Potential R4	10.01 pH	OK
		Consumption 8.3 R1	5.613 mL	OK
		Consumption 4.5 R2	10.576 mL	OK
		Consumption 4.2 R3	10.596 mL	OK
		Content R5	211.520 mg/L	OK
		ALK LOW R6	211.120 mg/L	OK
58	l2473893-02	Sample size	50 mL	
		Potential R4	5.89 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.764 mL	OK
		Consumption 4.2 R3	5.820 mL	OK
		Content R5	115.280 mg/L	OK
		ALK LOW R6	114.160 mg/L	OK
59	l2473893-03	Sample size	50 mL	
		Potential R4	6.07 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.974 mL	OK
		Consumption 4.2 R3	6.029 mL	OK
		Content R5	119.480 mg/L	OK

Titration report

		ALK LOW R6	118.380 mg/L	OK
60	I2473893-04	Sample size	50 mL	
		Potential R4	6.00 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.999 mL	OK
		Consumption 4.2 R3	3.019 mL	OK
		Content R5	59.980 mg/L	OK
		ALK LOW R6	59.580 mg/L	OK
61	I2473893-05	Sample size	50 mL	
		Potential R4	6.39 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.273 mL	OK
		Consumption 4.2 R3	6.323 mL	OK
		Content R5	125.460 mg/L	OK
		ALK LOW R6	124.460 mg/L	OK
62	I2473893-06	Sample size	50 mL	
		Potential R4	5.68 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.301 mL	OK
		Consumption 4.2 R3	4.347 mL	OK
		Content R5	86.020 mg/L	OK
		ALK LOW R6	85.100 mg/L	OK
63	I2473893-07	Sample size	50 mL	
		Potential R4	6.37 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.487 mL	OK
		Consumption 4.2 R3	4.505 mL	OK
		Content R5	89.740 mg/L	OK
		ALK LOW R6	89.380 mg/L	OK
64	I2473893-08	Sample size	50 mL	
		Potential R4	7.86 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.859 mL	OK
		Consumption 4.2 R3	5.877 mL	OK
		Content R5	117.180 mg/L	OK
		ALK LOW R6	116.820 mg/L	OK
65	I2473893-09	Sample size	50 mL	
		Potential R4	5.94 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.004 mL	OK
		Consumption 4.2 R3	4.032 mL	OK
		Content R5	80.080 mg/L	OK
		ALK LOW R6	79.520 mg/L	OK
66	I2473893-10	Sample size	50 mL	
		Potential R4	6.18 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.582 mL	OK

Titration report

		Consumption 4.2 R3	6.636 mL	OK
		Content R5	131.640 mg/L	OK
		ALK LOW R6	130.560 mg/L	OK
67	I2473893-11	Sample size	50 mL	
		Potential R4	5.76 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.267 mL	OK
		Consumption 4.2 R3	5.315 mL	OK
		Content R5	105.340 mg/L	OK
		ALK LOW R6	104.380 mg/L	OK
68	I2473927-01	Sample size	50 mL	
		Potential R4	6.12 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	7.225 mL	OK
		Consumption 4.2 R3	7.282 mL	OK
		Content R5	144.500 mg/L	OK
		ALK LOW R6	143.360 mg/L	OK
69	WG2010851-2	Sample size	50 mL	
		Potential R4	10.69 pH	OK
		Consumption 8.3 R1	4.647 mL	OK
		Consumption 4.5 R2	5.016 mL	OK
		Consumption 4.2 R3	5.020 mL	OK
		Content R5	100.320 mg/L	OK
		ALK LOW R6	100.240 mg/L	OK
70	WG2010851-1	Sample size	50 mL	
		Potential R4	5.27 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.045 mL	OK
		Consumption 4.2 R3	0.074 mL	OK
		Content R5	0.900 mg/L	OK
		ALK LOW R6	0.320 mg/L	OK
71	CCV	Sample size	50 mL	
		Potential R4	10.66 pH	OK
		Consumption 8.3 R1	4.613 mL	OK
		Consumption 4.5 R2	5.013 mL	OK
		Consumption 4.2 R3	5.013 mL	OK
		Content R5	100.260 mg/L	OK
		ALK LOW R6	100.260 mg/L	OK
72	CCB	Sample size	50 mL	
		Potential R4	5.32 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.059 mL	OK
		Consumption 4.2 R3	0.094 mL	OK
		Content R5	1.180 mg/L	OK
		ALK LOW R6	0.480 mL	OK

Statistics

Titration report

LabX

R1

Mean	NaN mL		
Maximum	5.613 mL	**Minimum**	2.120 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	72	**Samples excluded**	0

R2

Mean	NaN mL		
Maximum	17.729 mL	**Minimum**	0.014 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	72	**Samples excluded**	0

R3

Mean	NaN mL		
Maximum	13.452 mL	**Minimum**	0.023 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	72	**Samples excluded**	0

R4

Mean	6.18 pH		
Maximum	11.70 pH	**Minimum**	3.46 pH
Standard deviation	1.62 pH	**Rel. standard deviation**	26.226 %
Total samples	72	**Samples excluded**	0

R5

Mean	NaN mg/L		
Maximum	354.580 mg/L	**Minimum**	0.280 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	72	**Samples excluded**	0

R6

Mean	NaN mg/L		
Maximum	261.720 mg/L	**Minimum**	0.100 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	72	**Samples excluded**	0

Used Instruments

Name	T7 Excellence Titrator	**Serial number**	C329519495

Responsible User

Time	Login name	Full name

Titration report

12/18/2024 8:47:35 AM SystemInternal System internal account

Quality Control

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 12/18/24 09:07
Dup Sample ID	: WG2010642-7	**DUP Analysis Date**	: 12/18/24 09:09

Parameter	Sample Concentration (mg CaCO3/L)	Duplicate Concentration (mg CaCO3/L)	RPD	RPD Limit
Alkalinity, Carbonate	ND	ND	NC	10
Alkalinity, Bicarbonate	49.6	49.2	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	241218	LCS 7.03	7.03	INT:	mkt
pH 4	3484	Titrant:	4193		
pH 7	3386	LCS:	3530		
pH 10	3482	MS:	3529		
LCS	3485				

1	Rinse,MKT	42	l2473423-05
2	Rinse,MKT	43	l2473423-06
3	WG2010642-5	44	l2473423-07
4	WG2010642-6	45	l2473423-08
5	l2473162-01	46	l2473669-01
6	l2473162-02	47	l2473669-02
7	l2473162-03	48	WG2010763-3
8	l2473162-04	49	WG2010763-4
9	l2473162-05	50	l2472989-03 2x
10	l2473162-06	51	WG2010763-2
11	WG2010642-7	52	WG2010763-1
12	WG2010642-8	53	xl2474067-02
13	l2473162-07	54	xl2474067-02 2x+10
14	l2473162-08	55	l2473893-01
15	l2473162-09	56	WG2010851-3
16	l2473162-10	57	WG2010851-4
17	l2473323-01	58	l2473893-02
18	l2473323-02	59	l2473893-03
19	l2473323-03	60	l2473893-04
20	l2473323-04	61	l2473893-05
21	l2473323-05	62	l2473893-06
22	l2473205-01	63	l2473893-07
23	l2473205-02	64	l2473893-08
24	l2473205-03	65	l2473893-09
25	l2473205-04	66	l2473893-10
26	CCV	67	l2473893-11
27	CCB	68	l2473927-01
28	xl2474270-01	69	WG2010851-2
29	xDUP	70	WG2010851-1
30	xl2474270-02	71	CCV
31	l2472989-01	72	CCB
32	l2472989-02 5x+10	73	
33	l2472989-02 2x		
34	l2472989-03		
35	l2472989-04		
36	l2472989-05		
37	l2472989-07		
38	l2473423-01		
39	l2473423-02		
40	l2473423-03		
41	l2473423-04		

Chloride Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-01	**Date Collected**	:	12/12/24 08:25
Client ID	:	MW-11S	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 00:43
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500CL-E	**Analyst**	:	JER
Lab File ID	:	CL241216-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	4.6	1.0	0.89	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-02	**Date Collected**	:	12/12/24 08:42
Client ID	:	MW-11D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 13:29
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500CL-E	**Analyst**	:	JER
Lab File ID	:	CL241217-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	13.	1.0	0.89	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-03	**Date Collected**	:	12/12/24 09:50
Client ID	:	MW-1SR	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 00:47
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500CL-E	**Analyst**	:	JER
Lab File ID	:	CL241216-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	14.	1.0	0.89	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-04	**Date Collected**	:	12/12/24 10:10
Client ID	:	MW-1DR2	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 13:30
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500CL-E	**Analyst**	:	JER
Lab File ID	:	CL241217-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	9.0	1.0	0.89	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-05	**Date Collected**	:	12/12/24 11:40
Client ID	:	MP-1	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 00:50
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500CL-E	**Analyst**	:	JER
Lab File ID	:	CL241216-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	20.	1.0	0.89	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2473162
Project Name	:	CORAM MATERIALS	Project Number	:	2232.0006Y005
Lab ID	:	L2473162-06	Date Collected	:	12/12/24 12:05
Client ID	:	MP-1D	Date Received	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	:	12/17/24 00:51
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	121,4500CL-E	Analyst	:	JER
Lab File ID	:	CL241216-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	12.	1.0	0.89	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-07	**Date Collected**	:	12/12/24 12:00
Client ID	:	DUP_121224	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 13:31
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500CL-E	**Analyst**	:	JER
Lab File ID	:	CL241217-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	12.	1.0	0.89	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-08	**Date Collected**	:	12/12/24 14:00
Client ID	:	MW-13S	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 00:55
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500CL-E	**Analyst**	:	JER
Lab File ID	:	CL241216-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	3.7	1.0	0.89	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-09	**Date Collected**	:	12/12/24 14:05
Client ID	:	MW-13D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 00:56
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500CL-E	**Analyst**	:	JER
Lab File ID	:	CL241216-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	26.	1.0	0.89	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-10	**Date Collected**	:	12/12/24 13:30
Client ID	:	EB_121224	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 13:32
Sample Matrix	:	Equipment Blank	**Dilution Factor**	:	1
Analytical Method	:	121,4500CL-E	**Analyst**	:	JER
Lab File ID	:	CL241217-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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2009725-1	**Date Collected**	: NA
Client ID	: WG2009725-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/17/24 00:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL241216-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	0.97	1.0	0.89	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2009725-3	**Date Collected**	: 12/12/24 12:05
Client ID	: MP-1DDUP	**Date Received**	: 12/12/24
Sample Location	:	**Date Analyzed**	: 12/17/24 00:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL241216-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	13.	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010248-1	**Date Collected**	: NA
Client ID	: WG2010248-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/17/24 13:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL241217-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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010248-3	**Date Collected**	: 12/13/24 08:20
Client ID	: WG2010248-3 DUP	**Date Received**	: 12/13/24
Sample Location	:	**Date Analyzed**	: 12/17/24 13:37
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL241217-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	2.0	1.0	0.89	

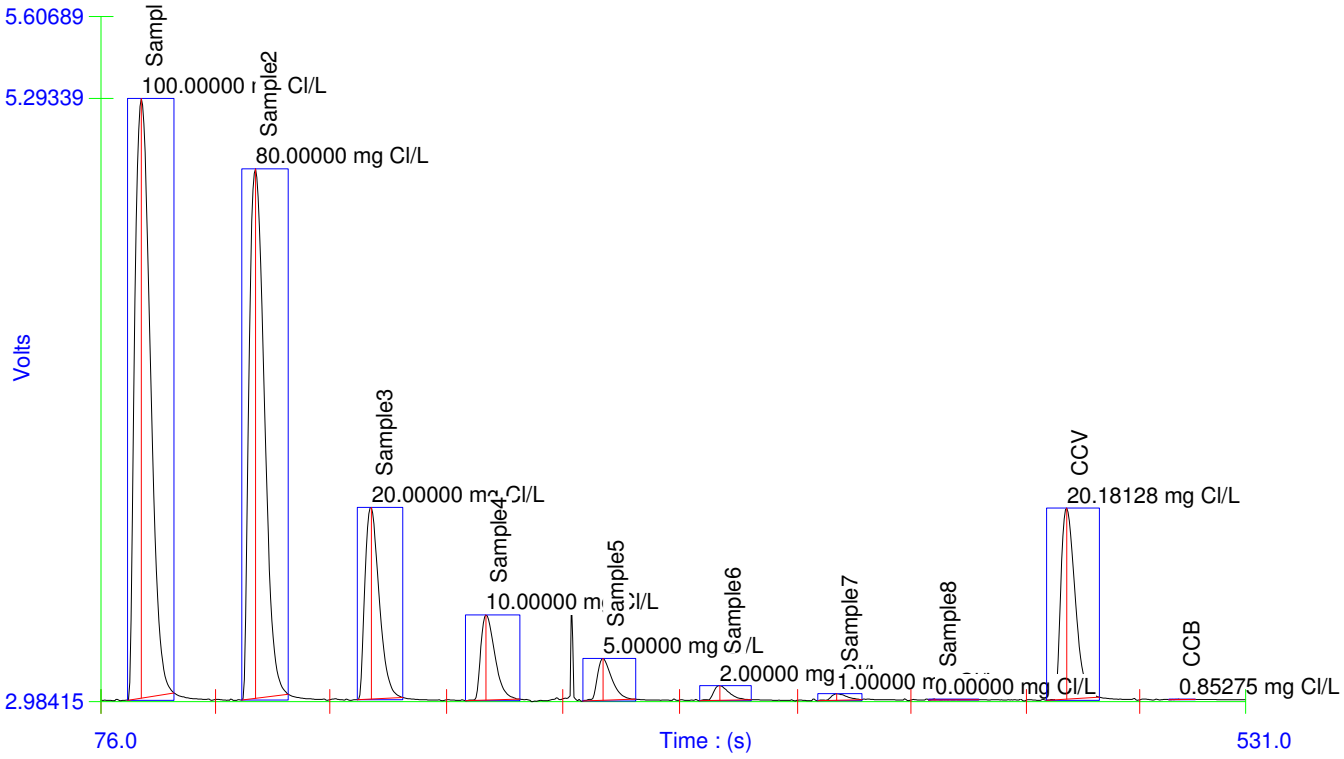
Sample Raw Data

Author: Date : 12/16/2024

Original Run Filename: OM_12-16-2024_08-05-59PM.OMN Created: 12/16/2024 8:05:59 PM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_12-16-2024_08-05-59PM.OMN Last Modified: 12/16/2024 8:16:22 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	20.18128			
		Known Conc:	20.00000			
		Calibration:	Table/Fig. : 1			
CCB	1	S9	0.85275			
		Known Conc:	0.00000			
ICV 5	1	1	4.22383			

Channel 1 (Chloride) - Set: 1 / 2



Author: Date : 12/16/2024

Channel 1 (Chloride) - Set: 2 / 2

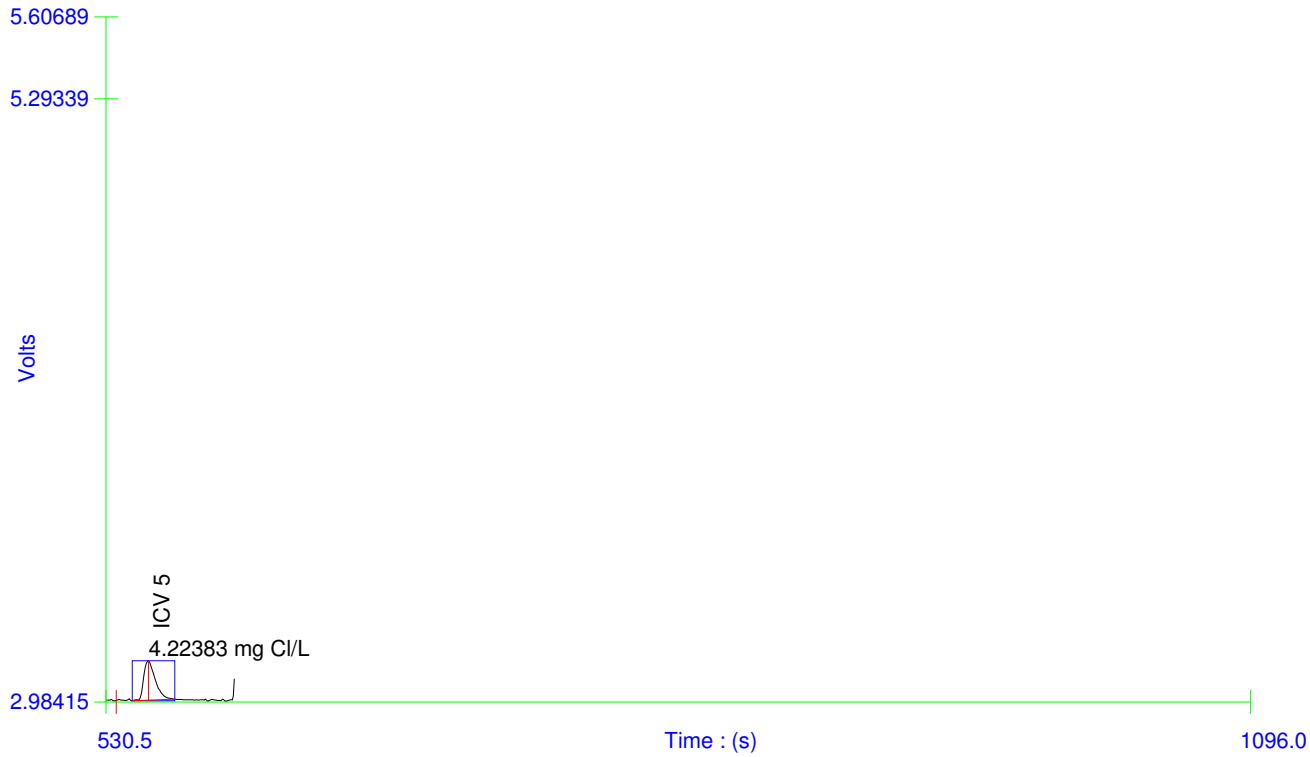
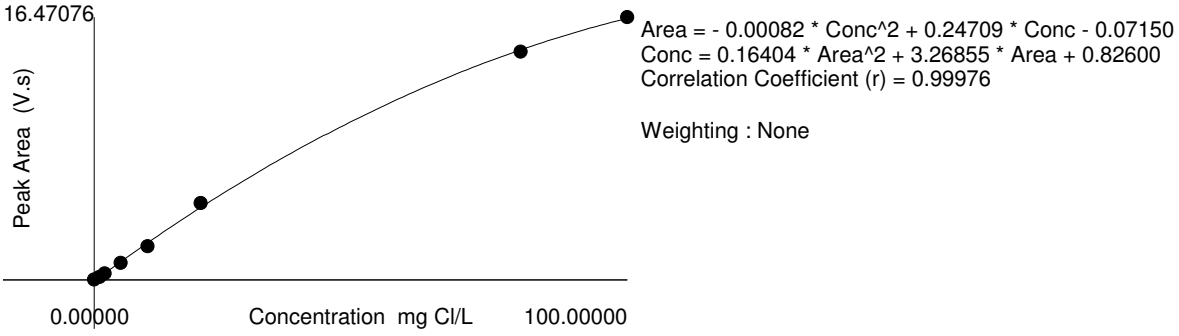


Table : 1 (Chloride-CH3)

	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	16.47076	2.29597	0.0	-0.4	99.16362	12/16/2024	8:07:29 PM
2	80.00000	1	14.29978	2.02788	0.0	0.9	81.10933	12/16/2024	8:08:14 PM
3	20.00000	1	4.80581	0.73371	0.0	-5.8	20.32271	12/16/2024	8:09:00 PM
4	10.00000	1	2.11393	0.32698	0.0	8.8	8.46853	12/16/2024	8:09:46 PM
5	5.00000	1	1.06078	0.15985	0.0	7.2	4.47782	12/16/2024	8:10:33 PM
6	2.00000	1	0.39970	0.05641	0.0	4.7	2.15865	12/16/2024	8:11:19 PM
7	1.00000	1	0.17417	0.02457	0.0	0.3	1.40026	12/16/2024	8:12:06 PM
8	0.00000	1	0.02234	0.00361			0.89909	12/16/2024	8:12:52 PM

Figure : 1 (Chloride-CH3)



Author: Date : 12/17/2024

Original Run Filename: OM_12-16-2024_11-51-47PM.OMN Created: 12/16/2024 11:51:47 PM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_12-16-2024_11-51-47PM.OMN Last Modified: 12/17/2024 1:13:14 AM
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	21.01945				
	Known Conc:		20.00000				
	Calibration:		Table/Fig. : 1				
CCB	1	S9	0.94858				
	Known Conc:		0.00000				
ICV 5	1	1	4.61147				92%
ICV 30	1	2	27.31054				91%
ICV 80	1	3	84.29608				105%
ICB	1	4	1.12855				
100 PPM	1	5	92.99989	10.00			93%
ICB	1	4	0.97522				
WG2009722-1	1	6	1.07000				
WG2009722-2	1	7	27.50478				92%
WG2009725/6/8-1	1	8	1.03267				
WG2009725/6/8-2	1	9	27.56109				92%
CCV	1	S3	20.72548				
	Known Conc:		20.00000				
CCB	1	S9	0.94825				
	Known Conc:		0.00000				
L2472746-01	1	10	171.54416	10.00			
WG2009722-1	1	6	0.97396				
WG2009725/6/8-1	1	8	1.04544				
WG2009722-3	1	11	178.92831	10.00			
WG2009725/6/8-1	1	8	1.12662				
WG2009722-4	1	12	196.45317	10.00			
WG2009725/6/8-1	1	8	1.00766				
L2472976-01	1	13	4.53384				
L2473048-01	1	14	20.45098				
WG2009725/6/8-1	1	8	1.04242				
CCV	1	S3	20.74649				
	Known Conc:		20.00000				
CCB	1	S9	0.99817				
	Known Conc:		0.00000				
L2473048-02	1	15	47.97628	10.00			
WG2009725/6/8-1	1	8	0.97117				
L2473048-03	1	16	3.48607				
L2473048-04	1	17	22.53286				
L2473048-05	1	18	311.95465				
L2473048-06	1	19	49.81926				
L2473048-07	1	20	101.91006	10.00			
L2473048-08	1	21	2.86092				
L2473048-09	1	22	10.65935				
L2473048-10	1	23	19.99199				
CCV	1	S3	20.63397				
	Known Conc:		20.00000				
CCB	1	S9	0.98303				
	Known Conc:		0.00000				
L2473205-01	1	24	119.61696				
L2473205-02	1	25	175.81973	10.00			
L2473205-03	1	26	92.05466	10.00			
L2473205-04	1	27	137.49533	10.00			
L2473292-01	1	28	143.39282				
L2473292-02	1	29	4.42386				
L2473292-03	1	30	15.67871	10.00			
L2473292-04	1	31	19.01232	10.00			
L2473162-01	1	32	4.64054				
L2473162-02	1	33	19.21607	10.00			
CCV	1	S3	20.72816				

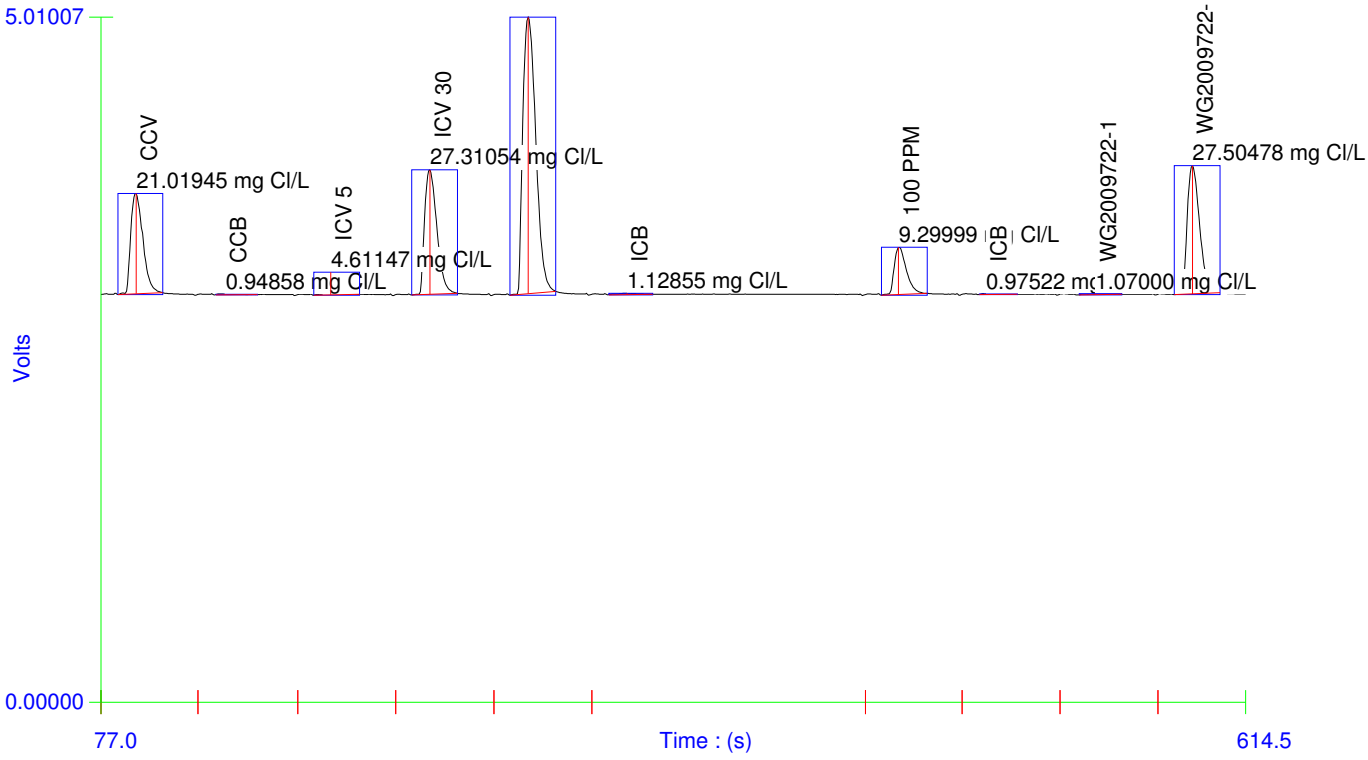
Author:

Date : 12/17/2024

	Known Conc:		20.00000			
CCB	1	S9	0.96158			
	Known Conc:		0.00000			
L2473162-03	1	34	14.28022			
L2473162-04	1	35	16.65291	10.00		
L2473162-05	1	36	20.56354			
L2473162-06	1	37	12.55586			
WG2009725-3	1	38	12.74338			
WG2009725-4	1	39	32.50031			
L2473162-07	1	40	19.46639	10.00		
L2473162-08	1	41	3.71508			
L2473162-09	1	42	25.58832			
L2473162-10	1	43	10.07373	10.00		
CCV	1	S3	20.43153			
	Known Conc:		20.00000			
CCB	1	S9	0.98979			
	Known Conc:		0.00000			
L2472567-01	1	44	1.63922			
WG2009726-3	1	45	1.65141			
WG2009726-4	1	46	19.95258			
L2472567-02	1	47	1.67583			
L2472567-03	1	48	1.67934			
L2473033-01	1	49	1.75447			
L2473484-01	1	50	65.23409	10.00		
L2473323-01	1	51	201.36987			
WG2009728-3	1	52	201.38225			
WG2009728-4	1	53	244.97467	10.00		
CCV	1	S3	20.74411			
	Known Conc:		20.00000			
CCB	1	S9	1.03362			
	Known Conc:		0.00000			

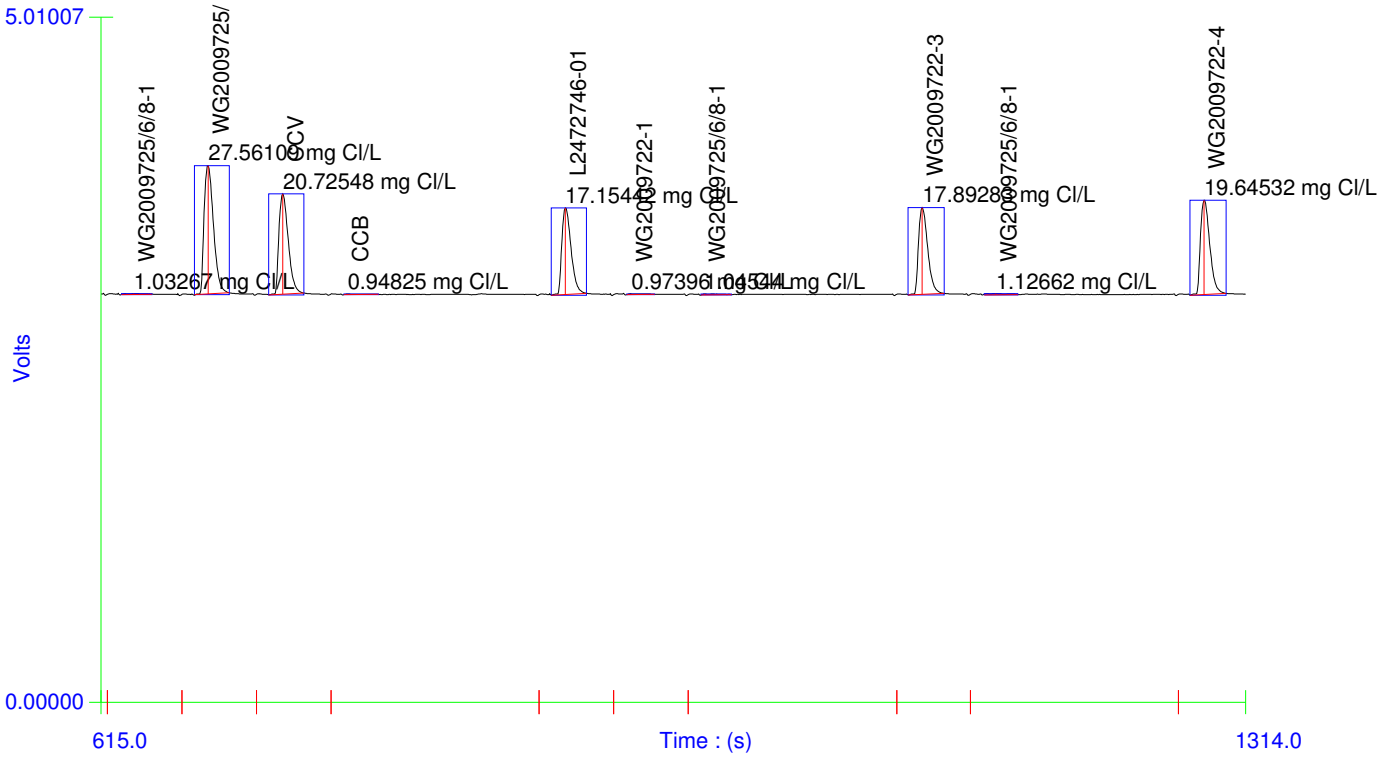
reinjected

Channel 1 (Chloride) - Set: 1 / 8



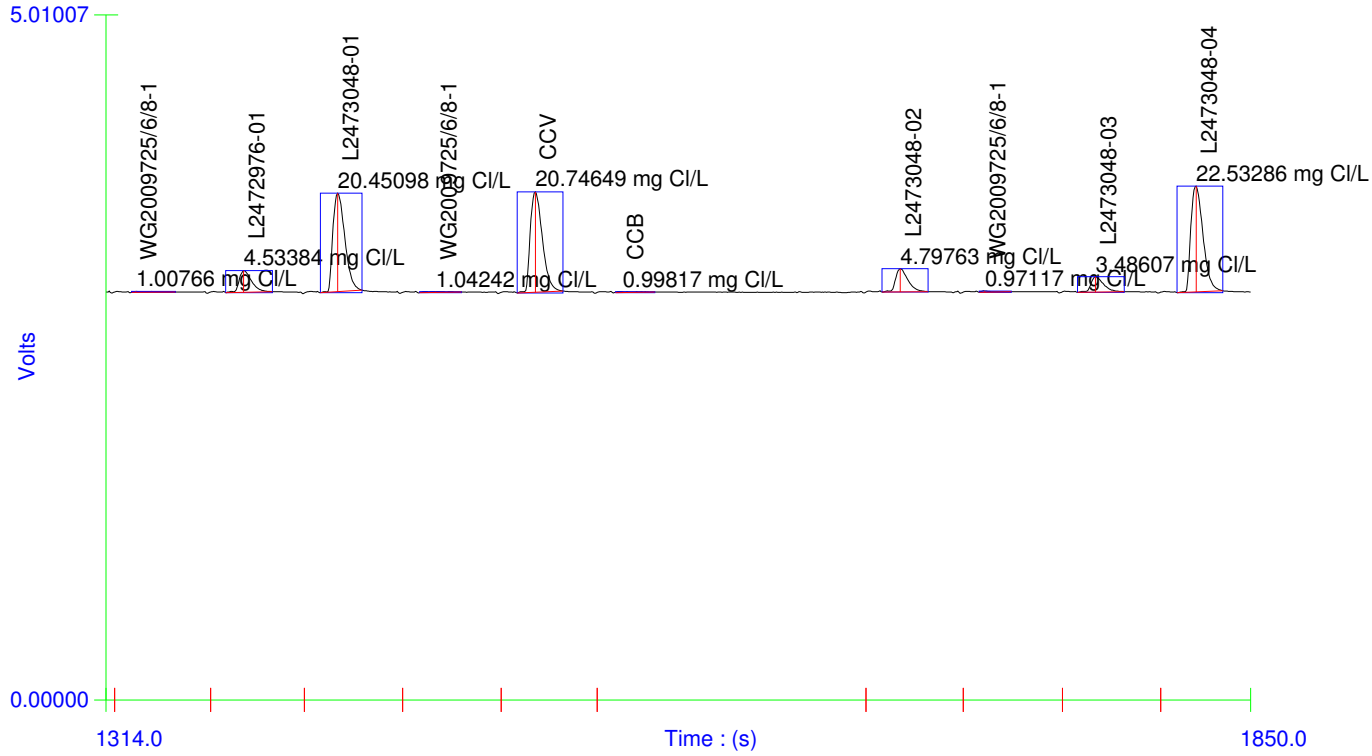
Author: Date : 12/17/2024

Channel 1 (Chloride) - Set: 2 / 8

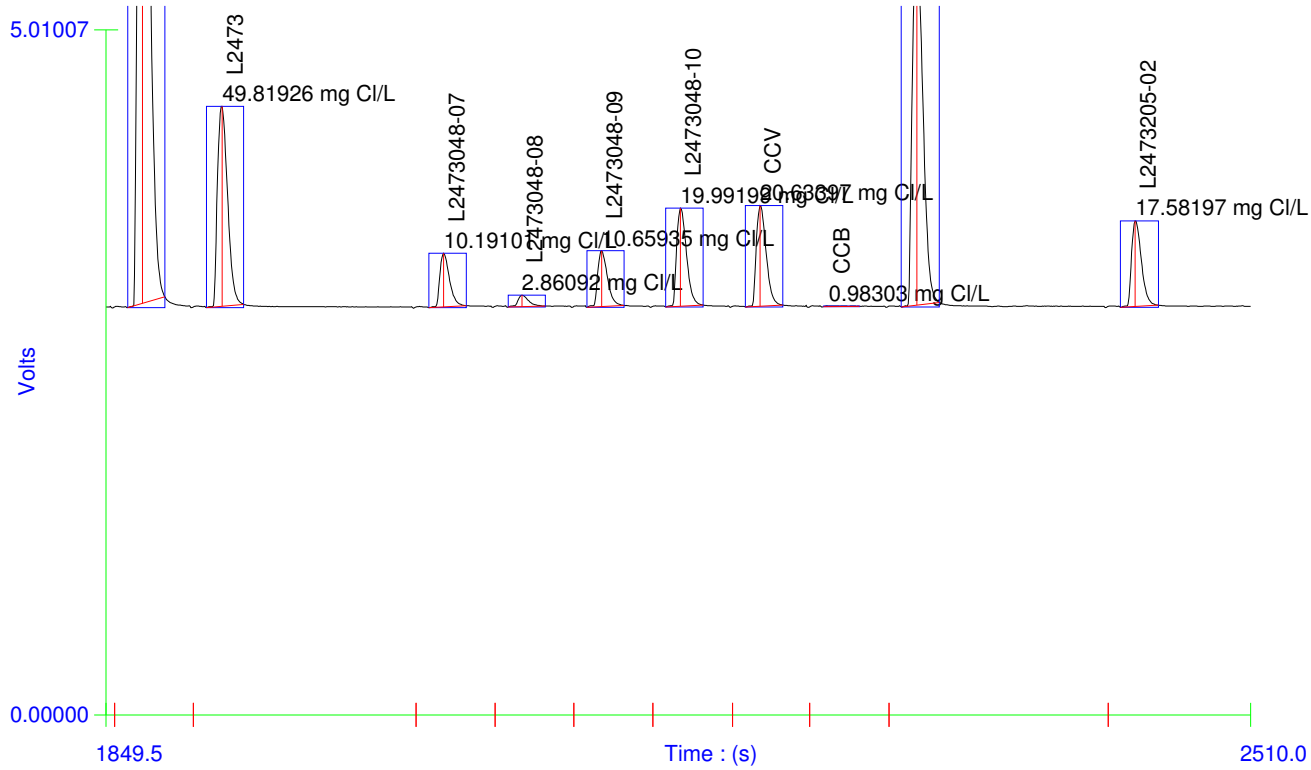


Author: Date : 12/17/2024

Channel 1 (Chloride) - Set: 3 / 8

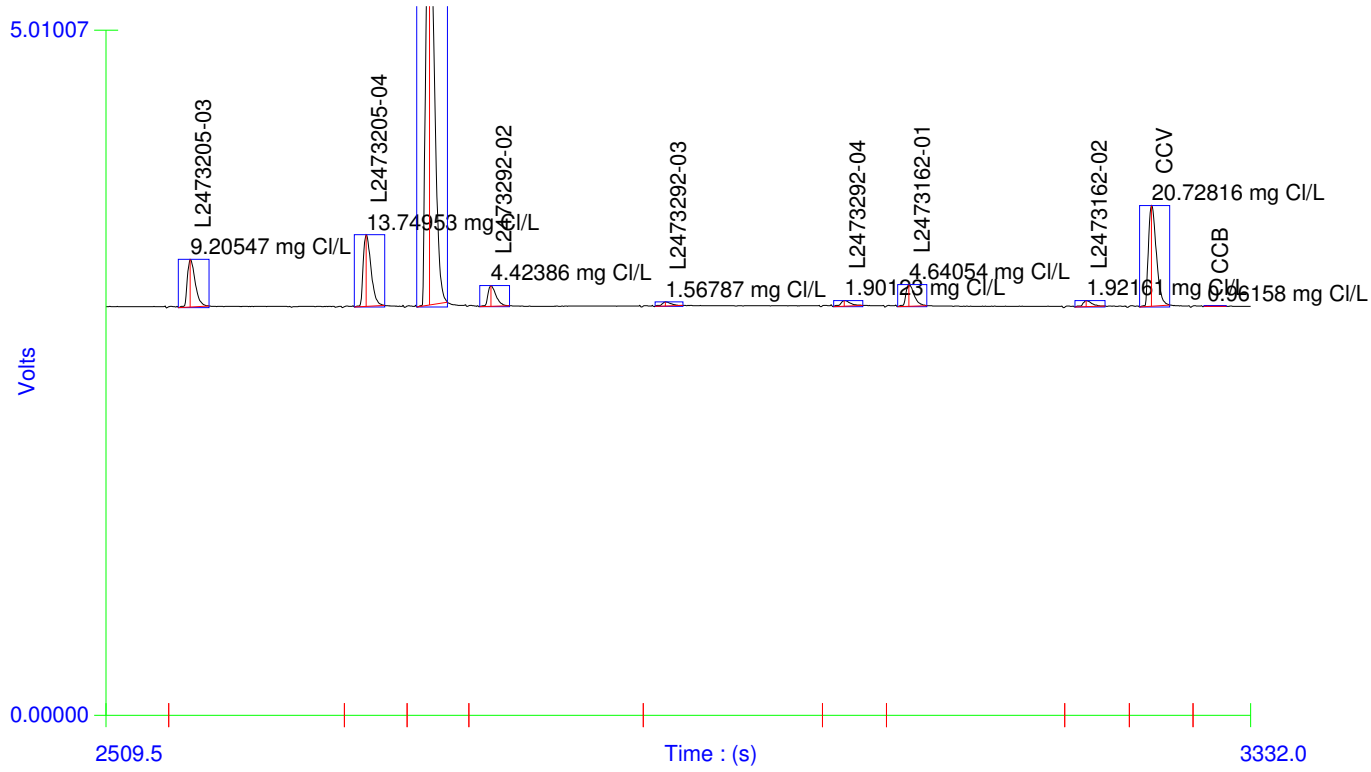


Channel 1 (Chloride) - Set: 4 / 8



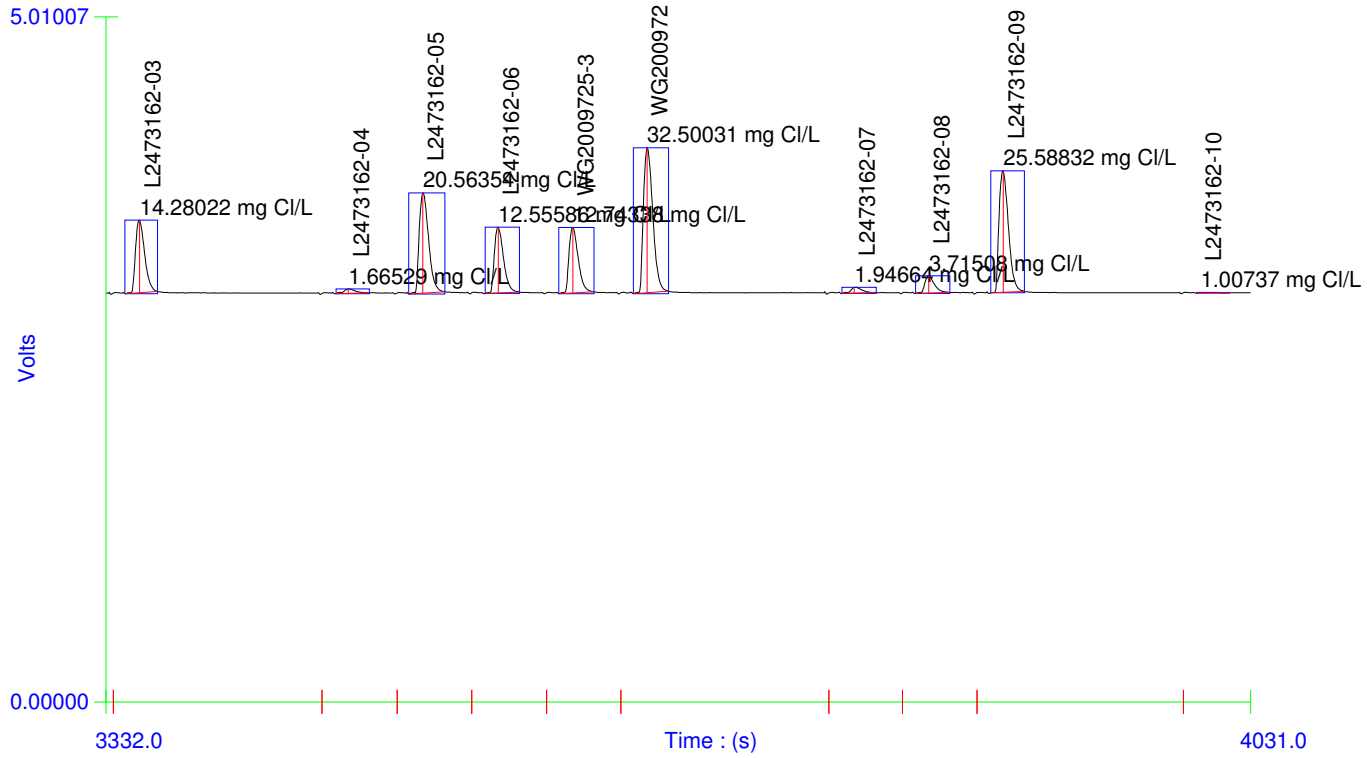
Author: Date : 12/17/2024

Channel 1 (Chloride) - Set: 5 / 8

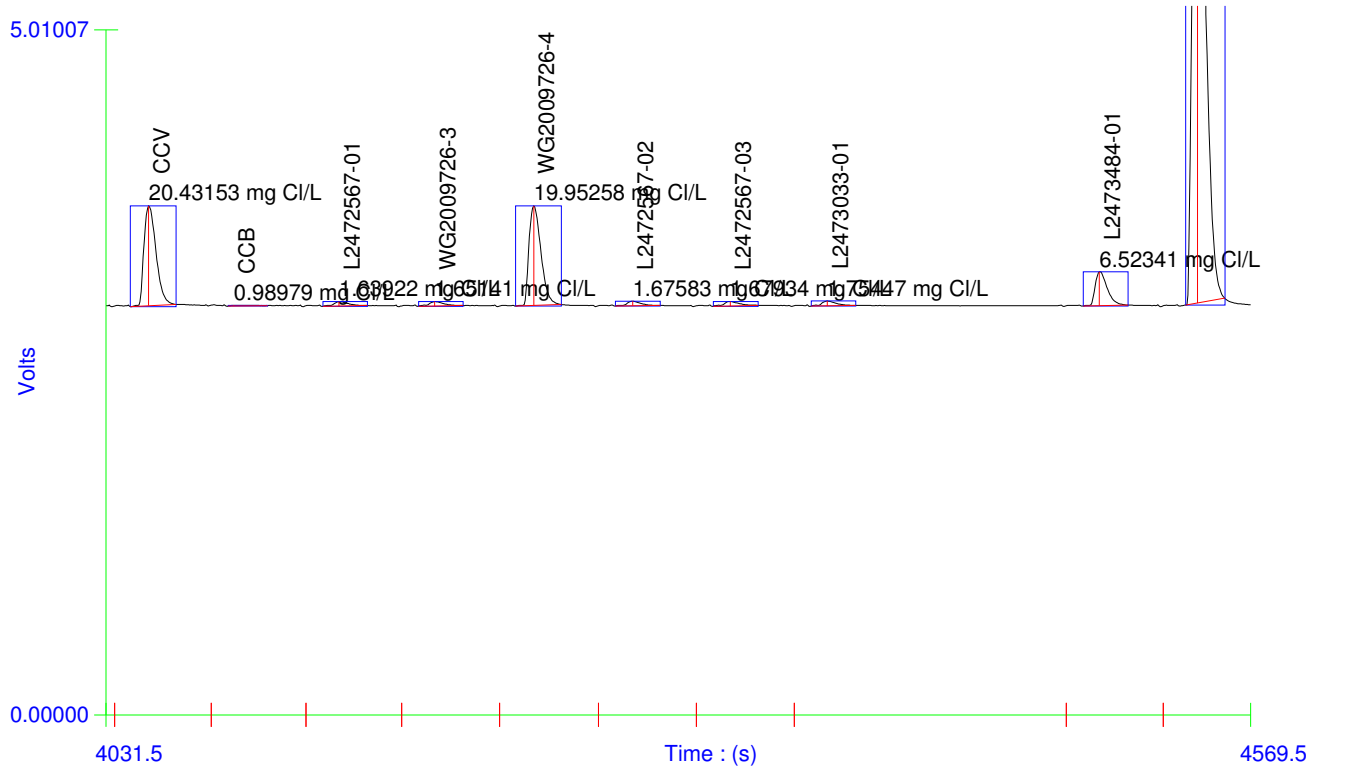


Author: Date : 12/17/2024

Channel 1 (Chloride) - Set: 6 / 8



Channel 1 (Chloride) - Set: 7 / 8



Channel 1 (Chloride) - Set: 8 / 8

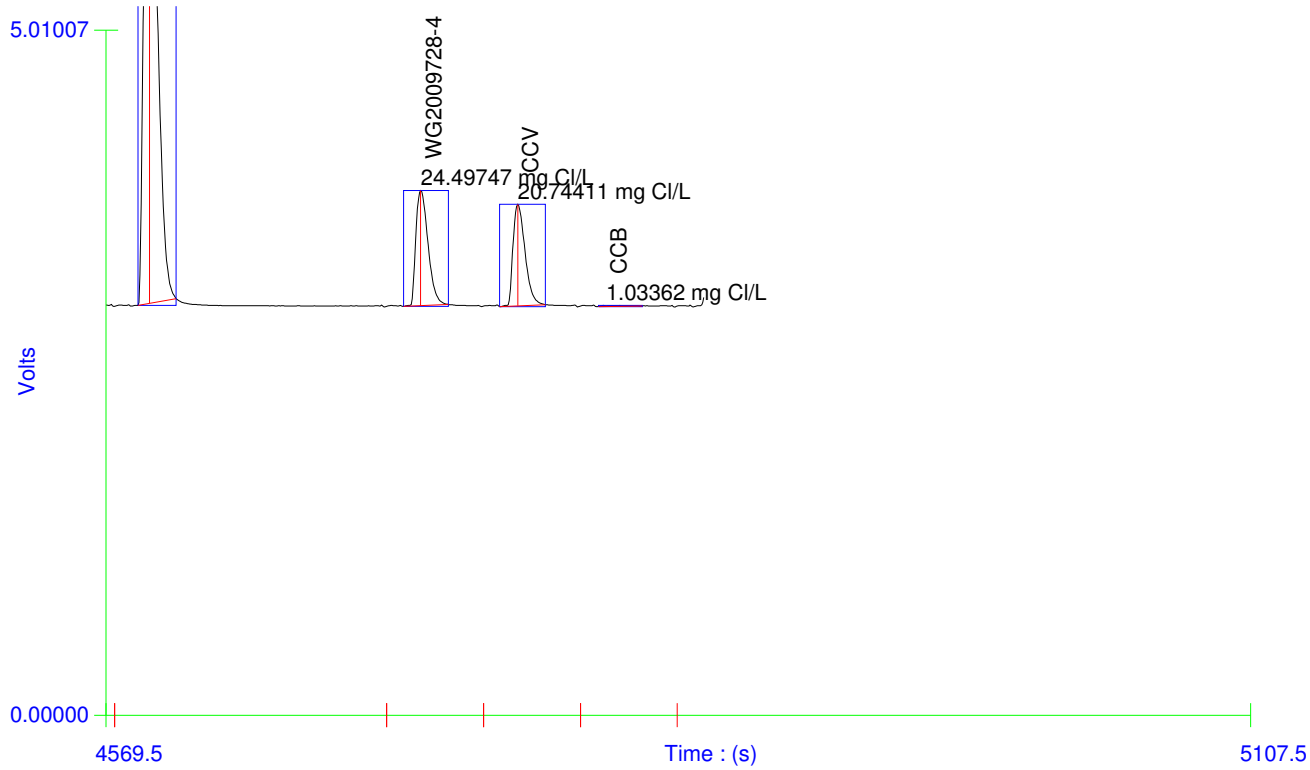
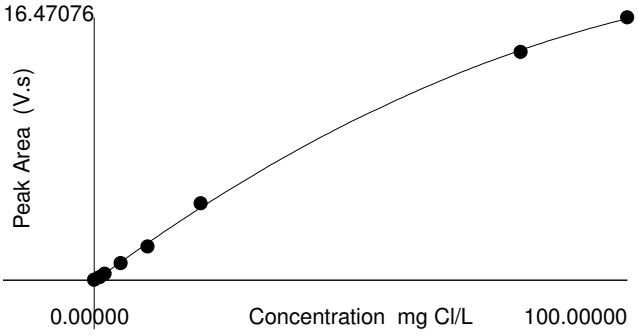


Table : 1 (Chloride-CH3)

	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	16.47076	2.29597	0.0	-0.4	99.16362	12/16/2024	8:07:29 PM
2	80.00000	1	14.29978	2.02788	0.0	0.9	81.10933	12/16/2024	8:08:14 PM
3	20.00000	1	4.80581	0.73371	0.0	-5.8	20.32271	12/16/2024	8:09:00 PM
4	10.00000	1	2.11393	0.32698	0.0	8.8	8.46853	12/16/2024	8:09:46 PM
5	5.00000	1	1.06078	0.15985	0.0	7.2	4.47782	12/16/2024	8:10:33 PM
6	2.00000	1	0.39970	0.05641	0.0	4.7	2.15865	12/16/2024	8:11:19 PM
7	1.00000	1	0.17417	0.02457	0.0	0.3	1.40026	12/16/2024	8:12:06 PM
8	0.00000	1	0.02234	0.00361			0.89909	12/16/2024	8:12:52 PM

Figure : 1 (Chloride-CH3)



Area = - 0.00082 * Conc^2 + 0.24709 * Conc - 0.07150
Conc = 0.16404 * Area^2 + 3.26855 * Area + 0.82600
Correlation Coefficient (r) = 0.99976

Weighting : None

Author: Date : 12/17/2024

Original Run Filename: OM_12-17-2024_01-16-06AM.OMN Created: 12/17/2024 1:16:06 AM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_12-17-2024_01-16-06AM.OMN Last Modified: 12/17/2024 2:05:55 AM
Current Run Author's Signature: [a1wetcheminstrument]
Description: Default New Run

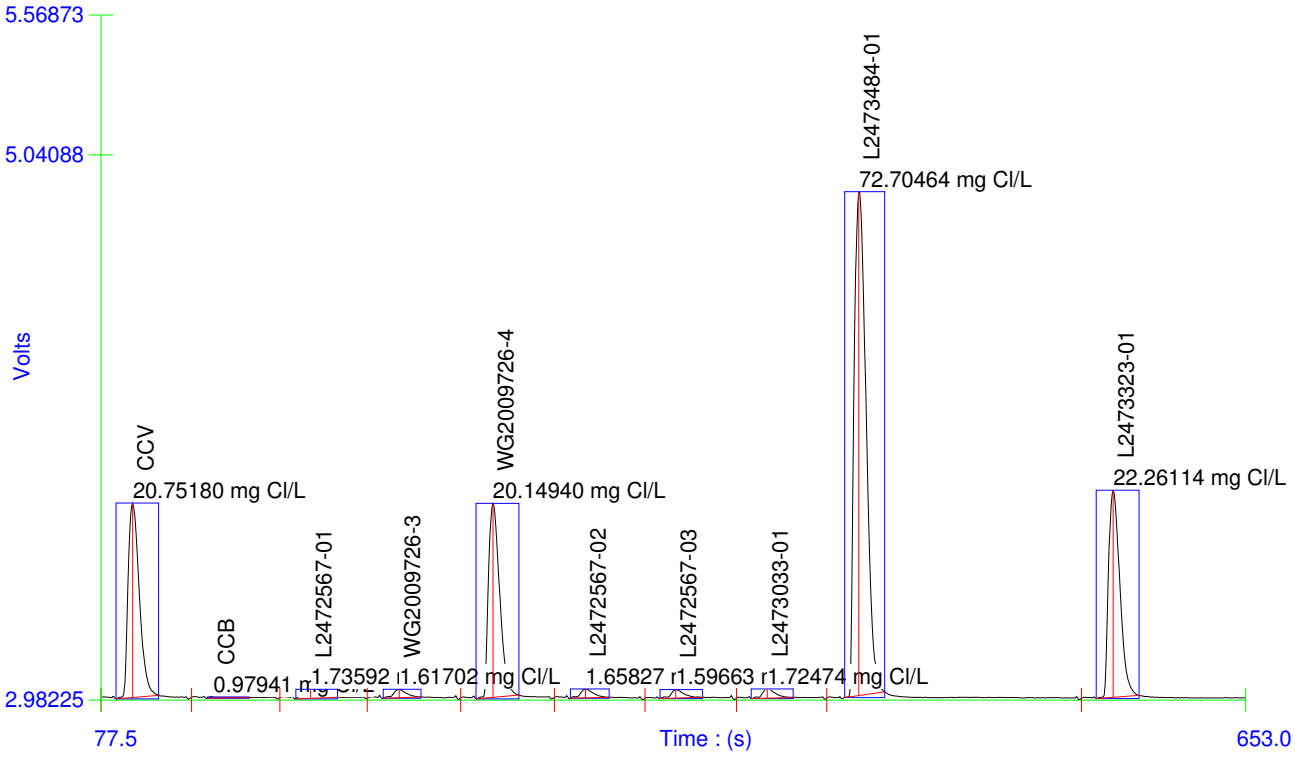
Sample	Rep.	Cup No.	Channel 1 Chloride-CH3 (mg Cl/L)	ADF	MDF	Weight
CCV	1	S3	20.75180			
	Known Conc:		20.00000			
CCB	1	S9	0.97941			
	Known Conc:		0.00000			
	Calibration:		Table/Fig. : 1			
L2472567-01	1	44	1.73592			
WG2009726-3	1	45	1.61702			
WG2009726-4	1	46	20.14940			
L2472567-02	1	47	1.65827			
L2472567-03	1	48	1.59663			
L2473033-01	1	49	1.72474			
L2473484-01	1	50	72.70464			
L2473323-01	1	51	222.61142	10.00		
WG2009728-3	1	52	218.93755	10.00		
WG2009728-4	1	53	248.68530	10.00		
CCV	1	S3	20.19329			
	Known Conc:		20.00000			
CCB	1	S9	0.98306			
	Known Conc:		0.00000			
L2473323-02	1	54	5.88043			
L2473323-03	1	55	2.56469			
L2473323-04	1	56	28.00042			
L2473323-05	1	57	28.72223			
L2472199-01	1	58	16.18466			
L2472465-01	1	59	4.19748			
L2472465-02	1	60	29.78853	10.00		
WG2009730-3	1	61	386.87097			0.10027 g
WG2009730-4	1	62	822.05493			0.10040 g
L2472465-03	1	63	99.09972	10.00		0.10190 g
CCV	1	S3	20.09954			
	Known Conc:		20.00000			
CCB	1	S9	0.94376			
	Known Conc:		0.00000			
L2472465-04	1	64	11.81580			0.10050 g
WG2009730-1	1	65	9.71235			0.10032 g
WG2009730-2	1	66	387.56201			0.10070 g
L2473048-02	1	15	51.28850			
L2473048-05	1	18	427.99286	10.00		
L2473048-06	1	19	47.91529			
L2473205-01	1	24	110.39624	10.00		
L2473292-01	1	28	137.97263	10.00		
L2473292-02	1	29	3.97801			
L2473292-03	1	30	8.28991			
CCV	1	S3	20.98913			
	Known Conc:		20.00000			
CCB	1	S9	0.96970			
	Known Conc:		0.00000			
L2473292-03	1	30	8.30124			
L2473292-04	1	31	11.85539			
L2473162-02	1	33	12.89918			
L2473162-04	1	35	9.14311			
L2473162-07	1	40	12.45759			
L2473162-10	1	43	0.97642			
L2472465-02	1	60	29.11924			
L2472465-03	1	63	10.82641			0.10190 g
CCV	1	S3	20.82012			
	Known Conc:		20.00000			
CCB	1	S9	1.03963			

Author:

Date : 12/17/2024

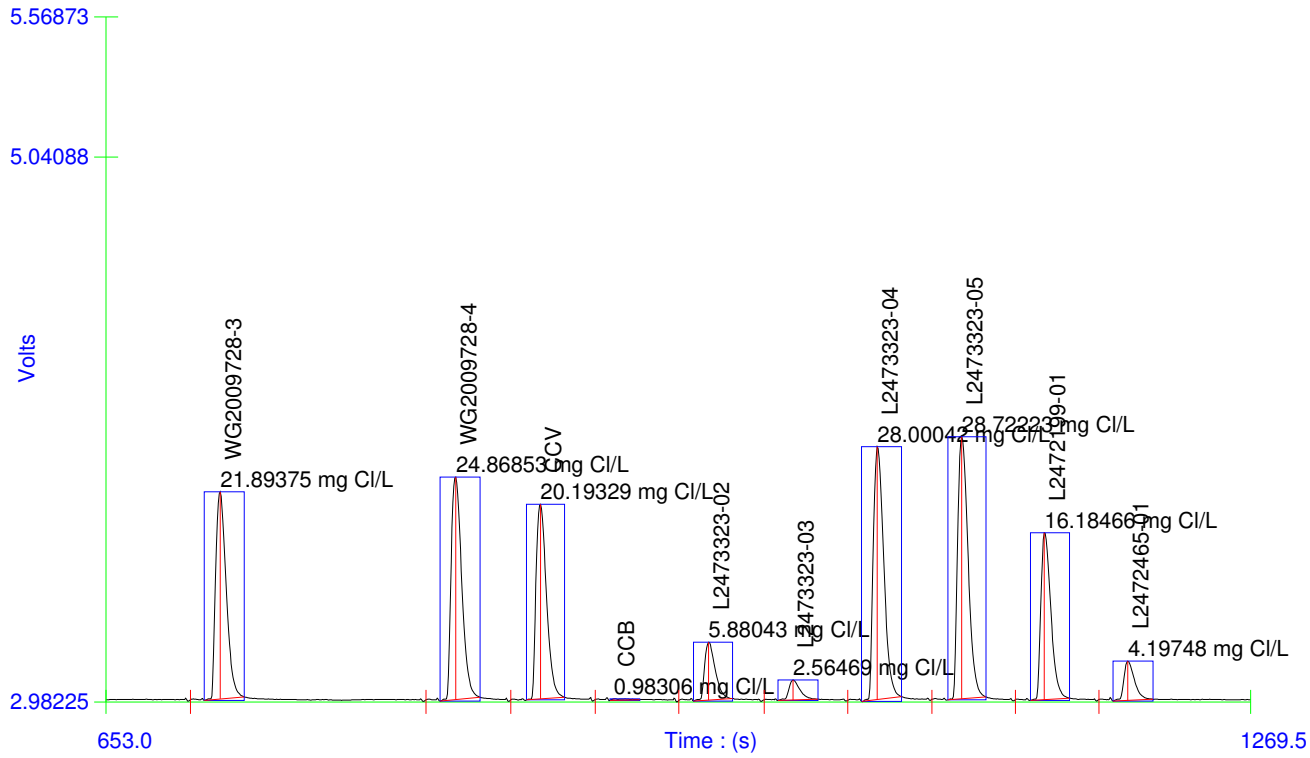
Known Conc:	0.00000			

Channel 1 (Chloride) - Set: 1 / 5

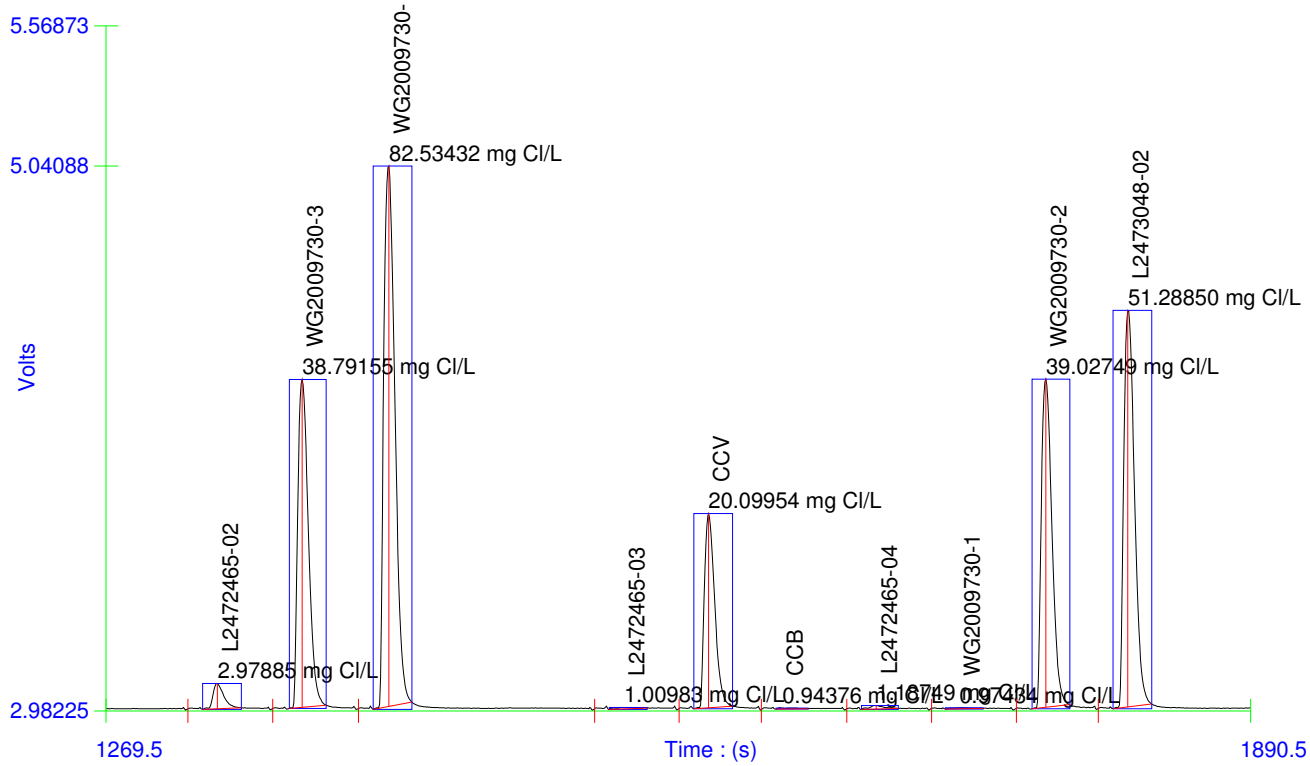


Author: Date : 12/17/2024

Channel 1 (Chloride) - Set: 2 / 5

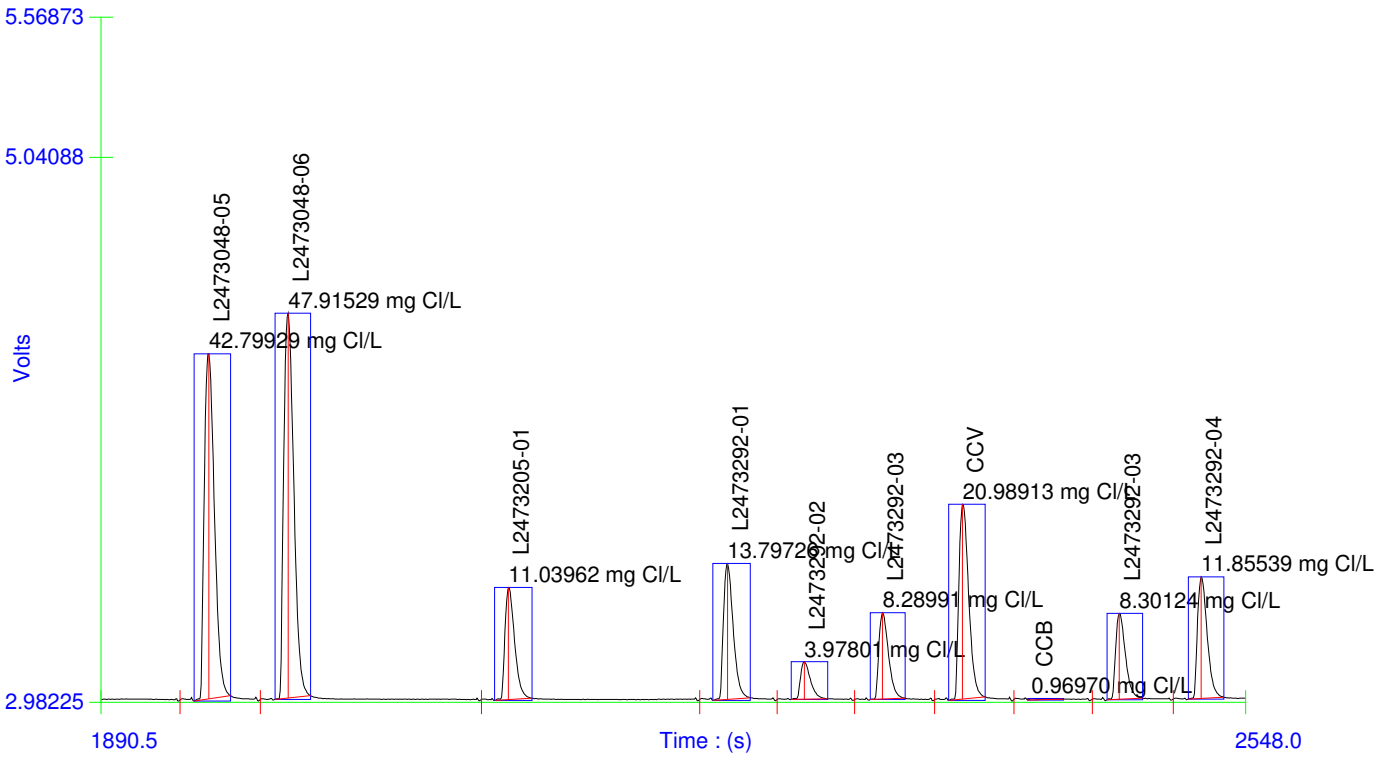


Channel 1 (Chloride) - Set: 3 / 5



Author: Date : 12/17/2024

Channel 1 (Chloride) - Set: 4 / 5



Author: Date : 12/17/2024

Channel 1 (Chloride) - Set: 5 / 5

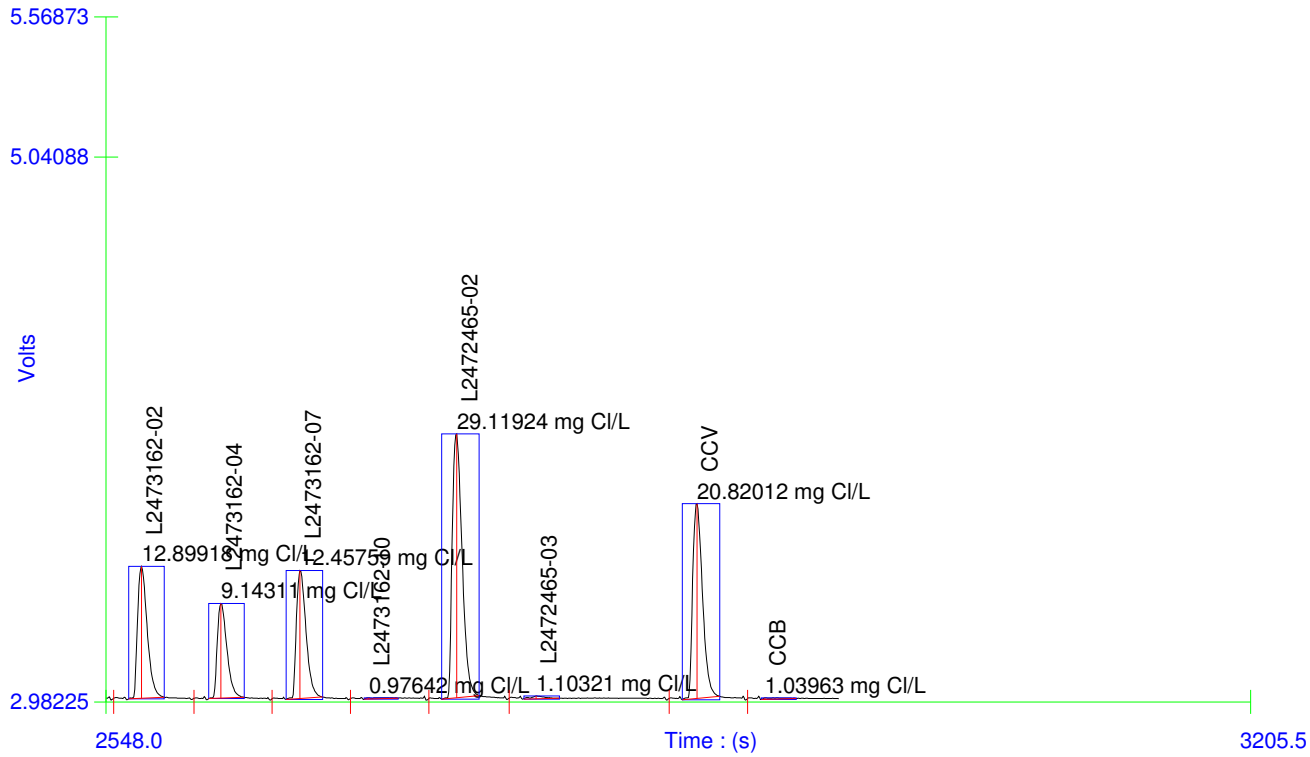
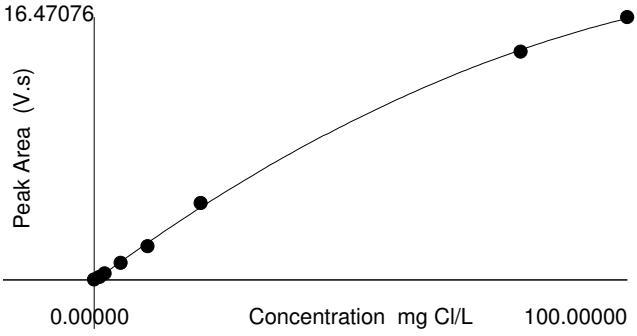


Table : 1 (Chloride-CH3)

	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	16.47076	2.29597	0.0	-0.4	99.16362	12/16/2024	8:07:29 PM
2	80.00000	1	14.29978	2.02788	0.0	0.9	81.10933	12/16/2024	8:08:14 PM
3	20.00000	1	4.80581	0.73371	0.0	-5.8	20.32271	12/16/2024	8:09:00 PM
4	10.00000	1	2.11393	0.32698	0.0	8.8	8.46853	12/16/2024	8:09:46 PM
5	5.00000	1	1.06078	0.15985	0.0	7.2	4.47782	12/16/2024	8:10:33 PM
6	2.00000	1	0.39970	0.05641	0.0	4.7	2.15865	12/16/2024	8:11:19 PM
7	1.00000	1	0.17417	0.02457	0.0	0.3	1.40026	12/16/2024	8:12:06 PM
8	0.00000	1	0.02234	0.00361			0.89909	12/16/2024	8:12:52 PM

Figure : 1 (Chloride-CH3)



Area = - 0.00082 * Conc^2 + 0.24709 * Conc - 0.07150
Conc = 0.16404 * Area^2 + 3.26855 * Area + 0.82600
Correlation Coefficient (r) = 0.99976

Weighting : None

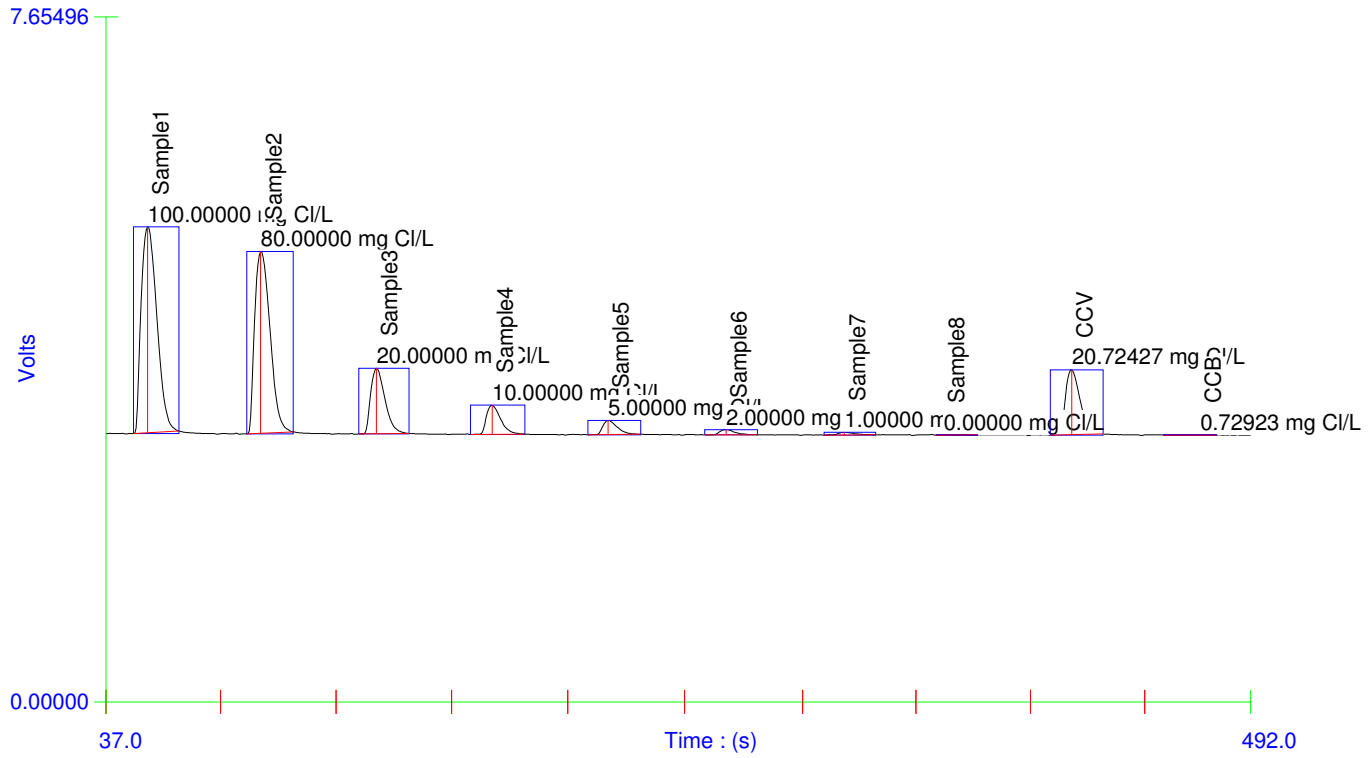
Author: Date : 12/17/2024

Original Run Filename: OM_12-17-2024_10-51-07AM.OMN Created: 12/17/2024 10:51:07 AM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_12-17-2024_10-51-07AM.OMN Last Modified: 12/17/2024 11:19:53 AM
Current Run Author's Signature: [a1wetcheminstrument]
Description: Default New Run

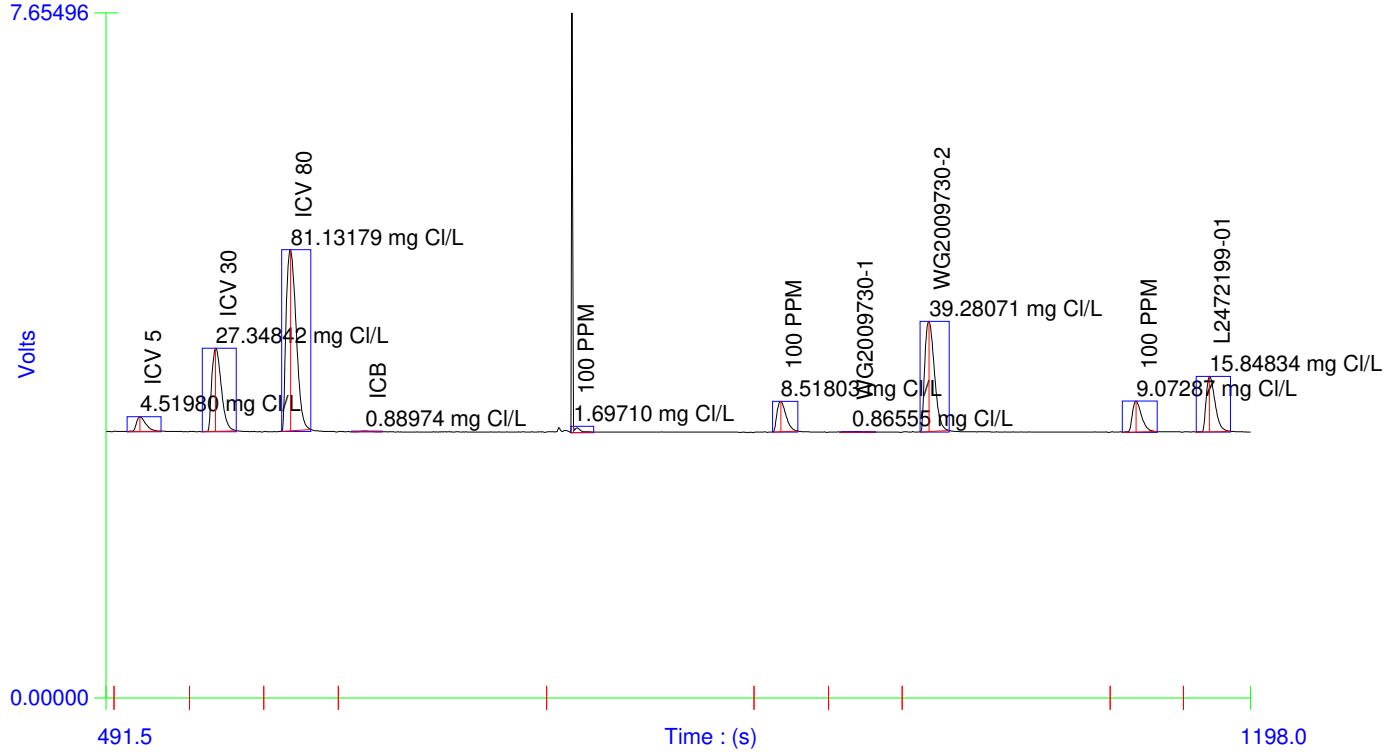
Sample	Rep.	Cup No.	Channel 1 Chloride-CH3 (mg Cl/L)	ADF	MDF	Weight	
Sample1	1	S1	100.00000				
Sample2	1	S2	80.00000				
Sample3	1	S3	20.00000				
Sample4	1	S4	10.00000				
Sample5	1	S5	5.00000				
Sample6	1	S6	2.00000				
Sample7	1	S7	1.00000				
Sample8	1	S9	0.00000				
CCV	1	S3	20.72427				
	Known Conc:		20.00000				
	Calibration:		Table/Fig. : 1				
CCB	1	S9	0.72923				
	Known Conc:		0.00000				
ICV 5	1	1	4.51980				90%
ICV 30	1	2	27.34842				91%
ICV 80	1	3	81.13179				101%
ICB	1	4	0.88974				
100 PPM	1	5	16.97100	10.00			
100 PPM	1	5	85.18033	10.00			
WG2009730-1	1	6	8.62703			0.10033 g	
WG2009730-2	1	7	389.84427			0.10076 g	98%
100 PPM	1	5	90.72873	10.00			90%
L2472199-01	1	8	157.30365			0.10075 g	
CCV	1	S3	20.34168				
	Known Conc:		20.00000				
CCB	1	S9	0.78641				
	Known Conc:		0.00000				
L2472465-01	1	9	38.26553			0.10127 g	
L2472465-02	1	10	287.59460			0.10106 g	
WG2009730-3	1	11	378.58578			0.10027 g	
WG2009730-4	1	12	805.90747			0.10042 g	
L2472465-03	1	13	10.73227			0.10192 g	
L2472465-04	1	14	10.75906			0.10050 g	
CCV	1	S3	19.93573				
	Known Conc:		20.00000				
CCB	1	S9	0.80068				
	Known Conc:		0.00000				

Author: Date : 12/17/2024

Channel 1 (Chloride) - Set: 1 / 3



Channel 1 (Chloride) - Set: 2 / 3



Author: Date : 12/17/2024

Channel 1 (Chloride) - Set: 3 / 3

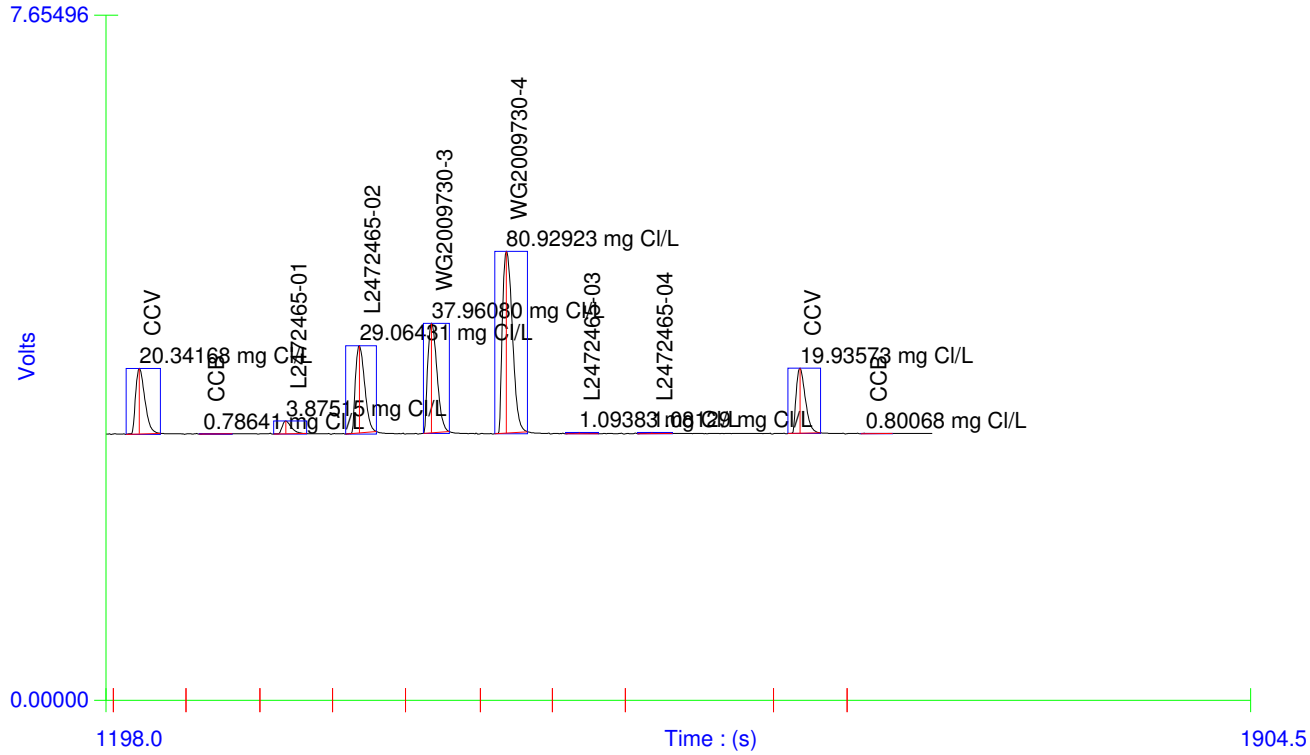
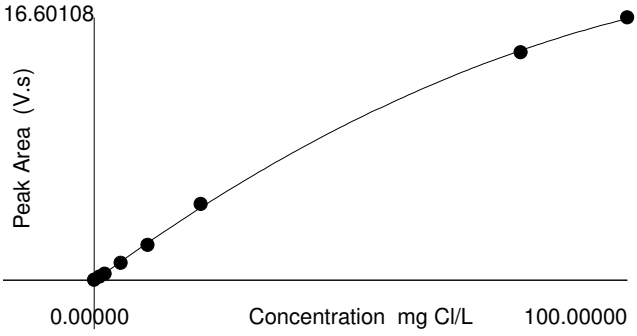


Table : 1 (Chloride-CH3)

	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	16.60108	2.30135	0.0	-0.5	99.22038	12/17/2024	10:51:58 AM
2	80.00000	1	14.39275	2.03163	0.0	0.9	81.04633	12/17/2024	10:52:43 AM
3	20.00000	1	4.81194	0.73336	0.0	-5.0	20.19754	12/17/2024	10:53:29 AM
4	10.00000	1	2.23743	0.32893	0.0	5.0	8.83334	12/17/2024	10:54:16 AM
5	5.00000	1	1.09086	0.16168	0.0	7.6	4.45214	12/17/2024	10:55:02 AM
6	2.00000	1	0.40775	0.05833	0.0	10.6	2.04104	12/17/2024	10:55:48 AM
7	1.00000	1	0.22970	0.02929	0.0	-8.8	1.43702	12/17/2024	10:56:35 AM
8	0.00000	1	0.03019	0.00433			0.77221	12/17/2024	10:57:20 AM

Figure : 1 (Chloride-CH3)



Area = - 0.00082 * Conc^2 + 0.24735 * Conc - 0.03537
Conc = 0.15935 * Area^2 + 3.29077 * Area + 0.67273
Correlation Coefficient (r) = 0.99984

Weighting : None

Author: Date : 12/17/2024

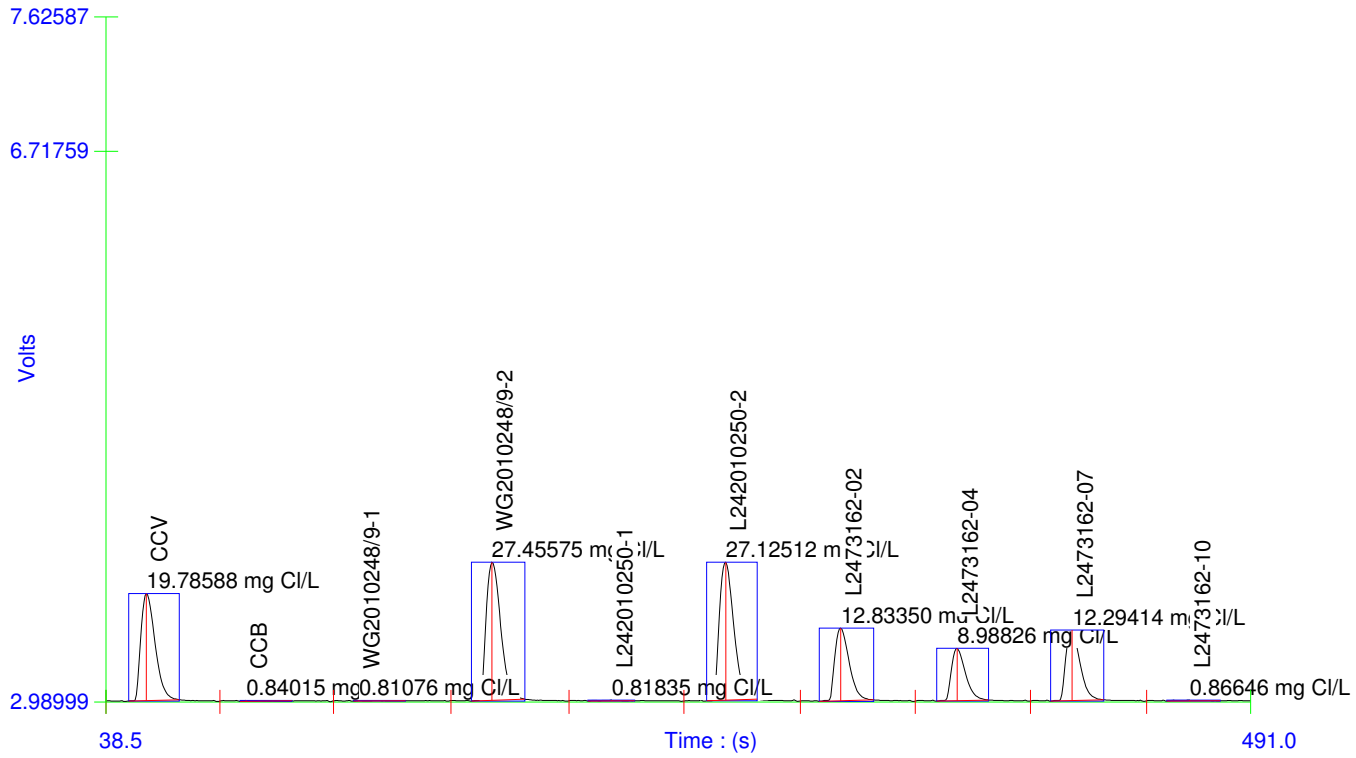
Original Run Filename: OM_12-17-2024_01-24-15PM.OMN Created: 12/17/2024 1:24:15 PM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_12-17-2024_01-24-15PM.OMN Last Modified: 12/17/2024 3:20:01 PM
Current Run Author's Signature: [a1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 Chloride-CH3 (mg Cl/L)	ADF	MDF	Weight
CCV	1	S3	19.78588			
	Known Conc:		20.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S9	0.84015			
	Known Conc:		0.00000			
WG2010248/9-1	1	15	0.81076			
WG2010248/9-2	1	16	27.45575			92%
WG2010250 ~~L242010250~~-1	1	17	0.81835			
~~L242010250~~-2	1	18	27.12512			90%
L2473162-02	1	19	12.83350			
L2473162-04	1	20	8.98826			
L2473162-07	1	21	12.29414			
L2473162-10	1	22	0.86646			
L2473292-04	1	23	11.70732			
L2473391-01	1	24	2512.74438	10.00		
CCV	1	S3	20.31943			
	Known Conc:		20.00000			
CCB	1	S9	0.79151			
	Known Conc:		0.00000			
L2473538-01	1	25	2.04746			
WG2010248-3	1	26	2.03323			
WG2010248-4	1	27	20.26718			
L2473538-02	1	28	25.79731			
L2473538-03	1	29	40.30499			
L2473538-04	1	30	5.87754			
L2473538-05	1	31	6.47282			
L2473643-01	1	32	233.24423			
WG2010249-3	1	33	235.80620			
WG2010249-4	1	34	310.15567	10.00		
CCV	1	S3	19.78455			
	Known Conc:		20.00000			
CCB	1	S9	0.77265			
	Known Conc:		0.00000			
L2473643-02	1	35	124.31270			
L2473643-04	1	36	130.04845			
L2473643-05	1	37	224.30165			
L2473643-06	1	38	67.88805			
L2473643-07	1	39	166.01874			
L2473643-09	1	40	120.39880			
L2473643-10	1	41	87.94743			
L2473740-01	1	42	153.62448			
WG2010250-3	1	43	151.39923			
WG2010250-4	1	44	162.55690	10.00		
CCV	1	S3	19.72630			
	Known Conc:		20.00000			
CCB	1	S9	0.78705			
	Known Conc:		0.00000			
L2473740-02	1	45	201.71574			
L2473740-03	1	46	209.42738			
L2473740-04	1	47	190.33794			
L2473740-05	1	48	182.35701			
L2473740-06	1	49	190.34288			
L2473740-07	1	50	197.04578			
L2473740-08	1	51	209.74696			
L2473740-09	1	52	213.51718			
L2473740-10	1	53	150.50864			
L2473740-11	1	54	1.06454			
CCV	1	S3	19.89848			

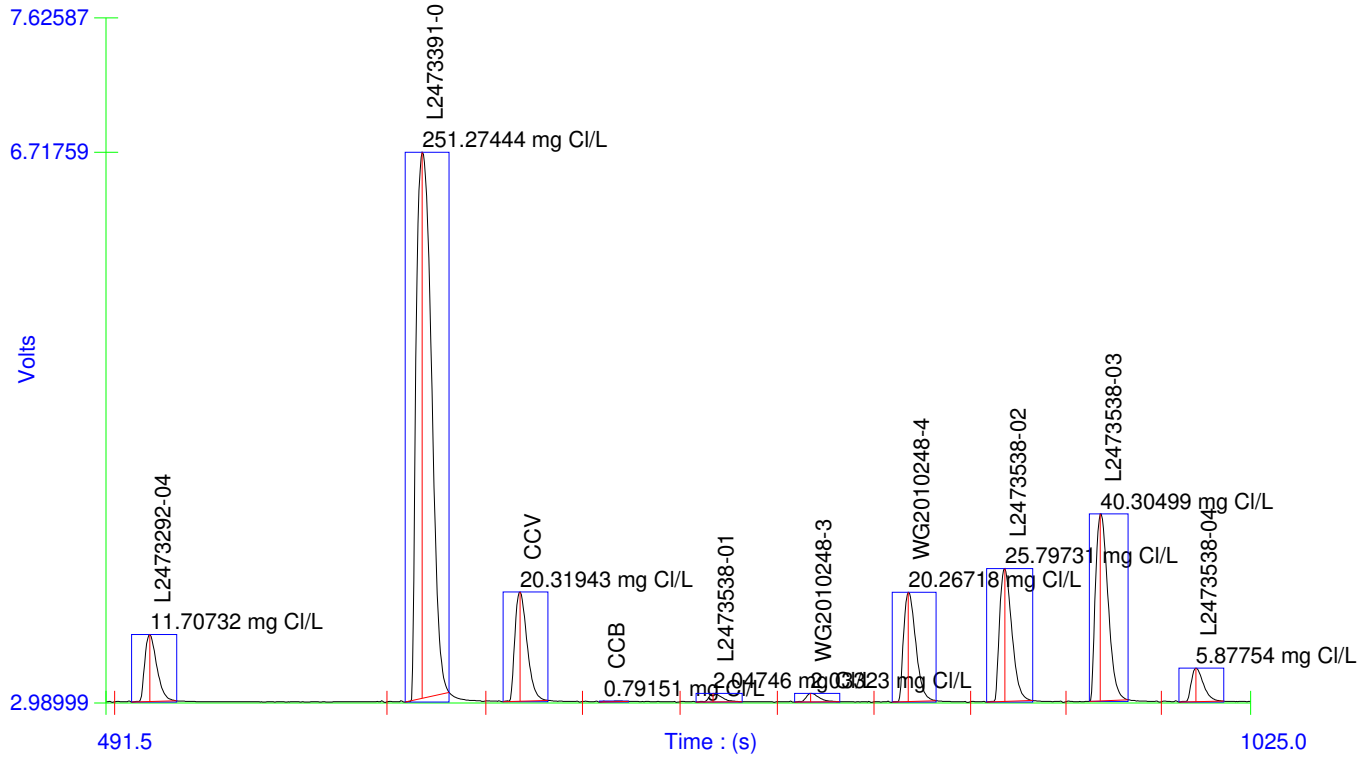
		Known Conc:	20.00000			
CCB	1	S9	0.80765			
		Known Conc:	0.00000			
L2473740-12	1	55	204.53755			
L2473740-13	1	56	206.69453			
L2473740-14	1	57	126.83797			
L2473740-15	1	58	114.28097			
L2473740-16	1	59	116.66338			
L2473800-01	1	60	242.73701			
L2473800-02	1	61	239.54138			
L2473800-03	1	62	239.99788			
L2473391-01	1	24	2886.20996	100.00		
L2473643-01	1	32	291.45374	10.00		
CCV	1	S3	19.60719			
		Known Conc:	20.00000			
CCB	1	S9	0.84832			
		Known Conc:	0.00000			
WG2010249-3	1	33	288.98782	10.00		
L2473643-02	1	35	113.37933	10.00		
L2473643-04	1	36	120.96002	10.00		
L2473643-05	1	37	268.81931	10.00		
L2473643-07	1	39	173.39404	10.00		
L2473643-09	1	40	111.14351	10.00		
L2473643-06	1	38	67.19923			
L2473740-01	1	42	146.76759	10.00		
L2473643-10	1	41	87.01924			
WG2010250-3	1	43	145.62936	10.00		
CCV	1	S3	19.60232			
		Known Conc:	20.00000			
CCB	1	S9	0.77286			
		Known Conc:	0.00000			
L2473740-02	1	45	228.76230	10.00		
L2473740-03	1	46	230.80859	10.00		
L2473740-04	1	47	193.42146	10.00		
L2473740-05	1	48	188.62953	10.00		
L2473740-06	1	49	195.21410	10.00		
L2473740-07	1	50	211.44437	10.00		
L2473740-08	1	51	227.81609	10.00		
L2473740-09	1	52	229.50172	10.00		
L2473740-10	1	53	144.21838	10.00		
L2473740-12	1	55	224.12405	10.00		
CCV	1	S3	19.66765			
		Known Conc:	20.00000			
CCB	1	S9	0.79475			
		Known Conc:	0.00000			
L2473740-13	1	56	223.58965	10.00		
L2473740-14	1	57	116.58569	10.00		
L2473740-15	1	58	102.85766	10.00		
L2473740-16	1	59	105.66669	10.00		
L2473800-01	1	60	282.06198	10.00		
L2473800-02	1	61	300.14294	10.00		
L2473800-03	1	62	285.74014	10.00		
L2473740-11	1	54	0.81890			
CCV	1	S3	20.00663			
		Known Conc:	20.00000			
CCB	1	S9	0.83177			
		Known Conc:	0.00000			

Author: Date : 12/17/2024

Channel 1 (Chloride) - Set: 1 / 10

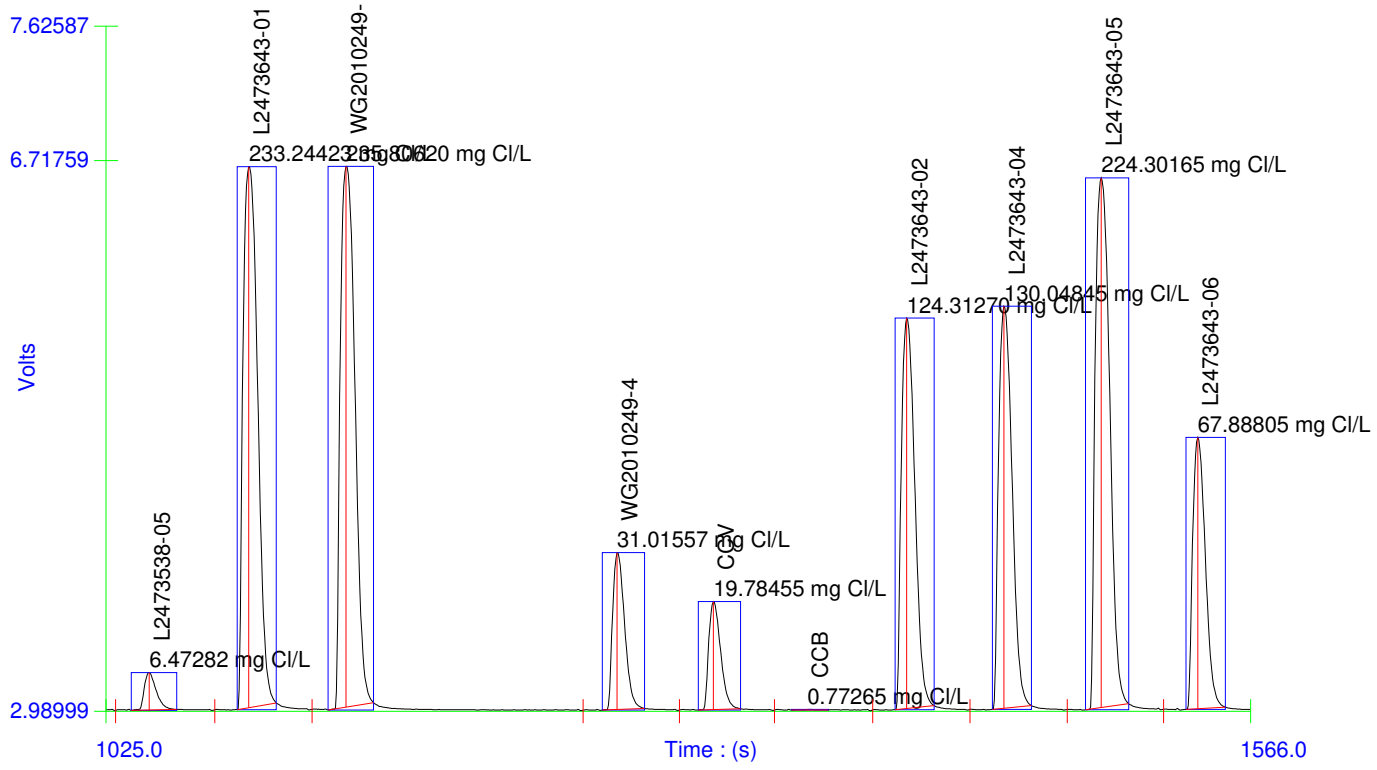


Channel 1 (Chloride) - Set: 2 / 10



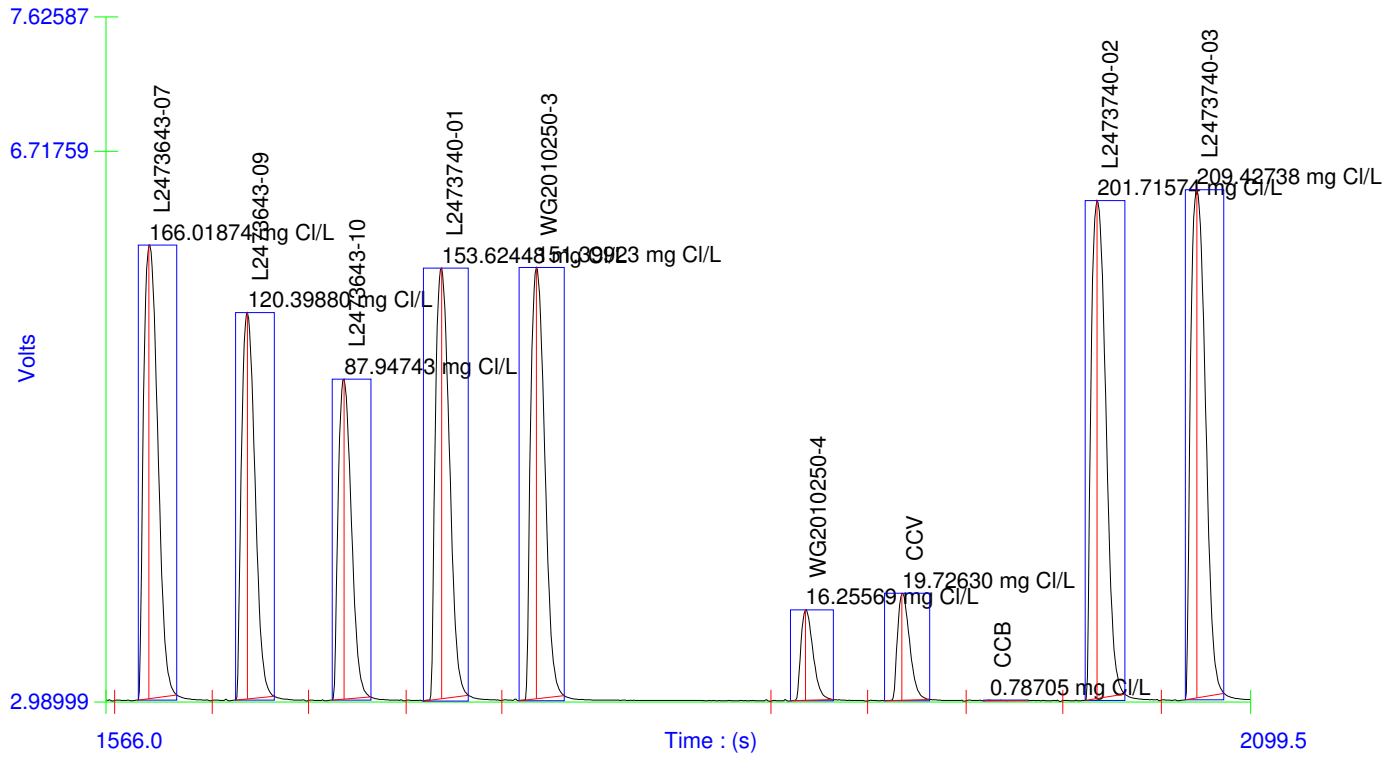
Author: Date : 12/17/2024

Channel 1 (Chloride) - Set: 3 / 10

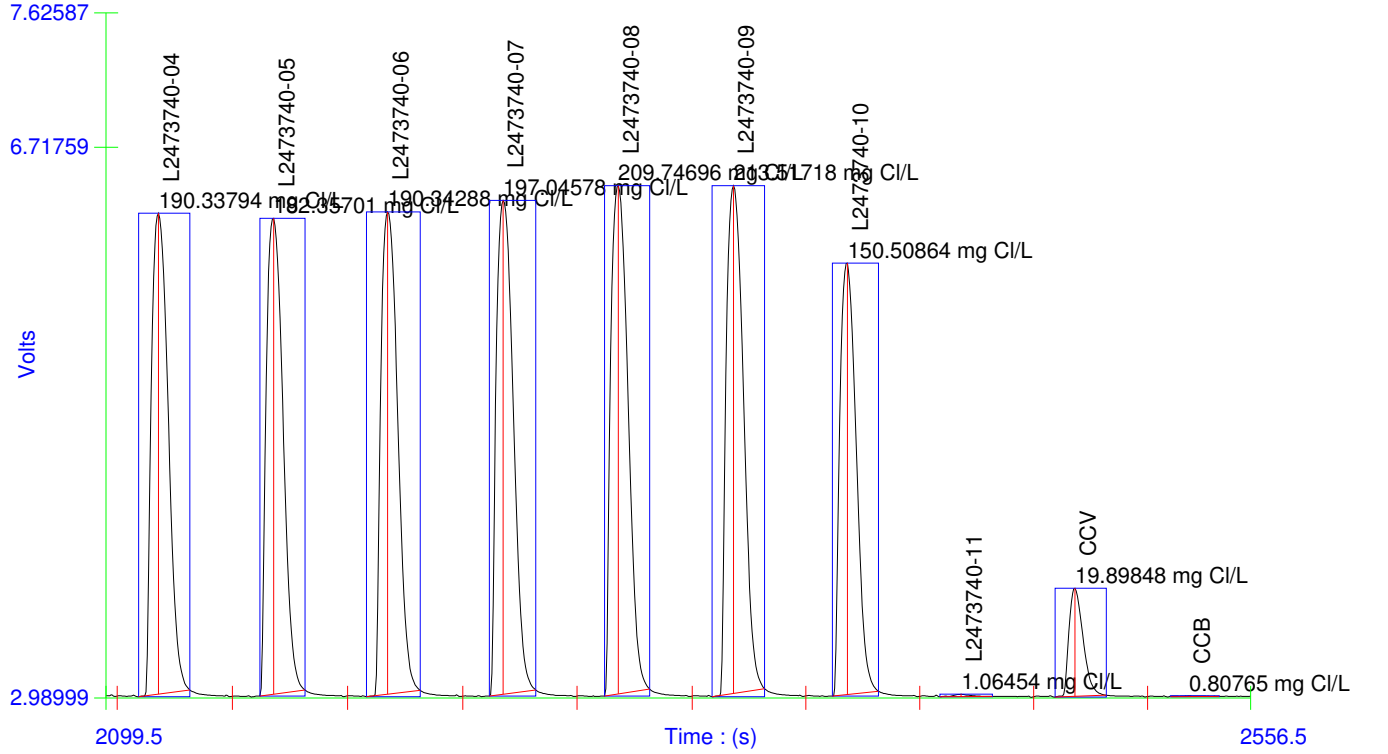


Author: Date : 12/17/2024

Channel 1 (Chloride) - Set: 4 / 10

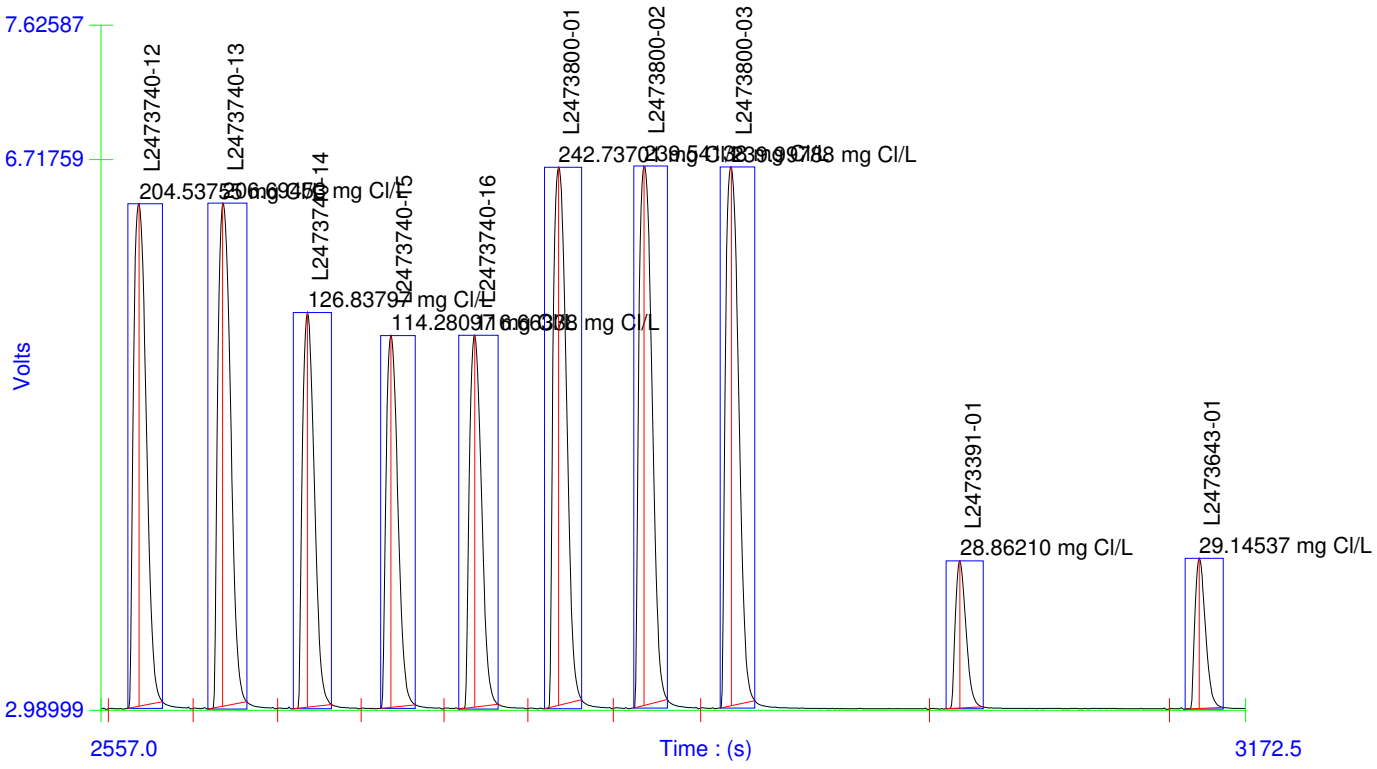


Channel 1 (Chloride) - Set: 5 / 10



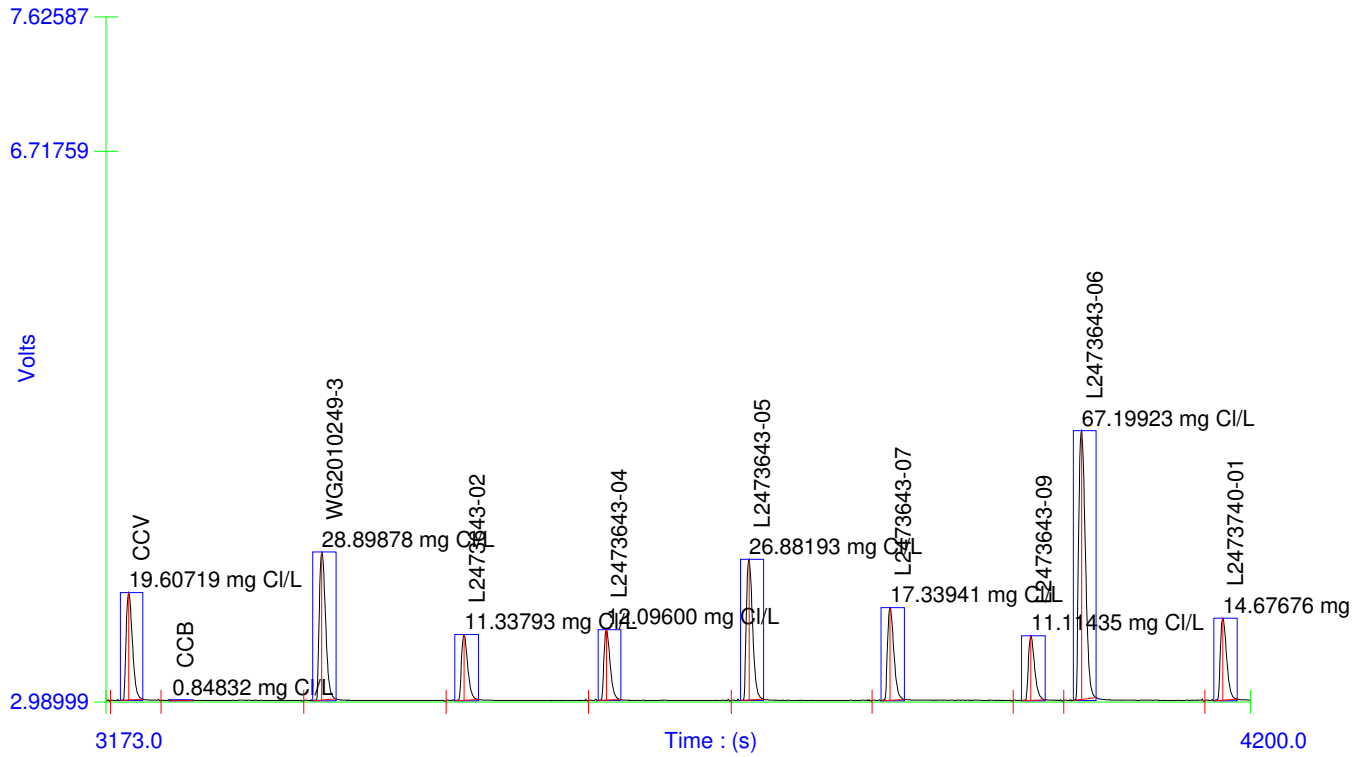
Author: Date : 12/17/2024

Channel 1 (Chloride) - Set: 6 / 10

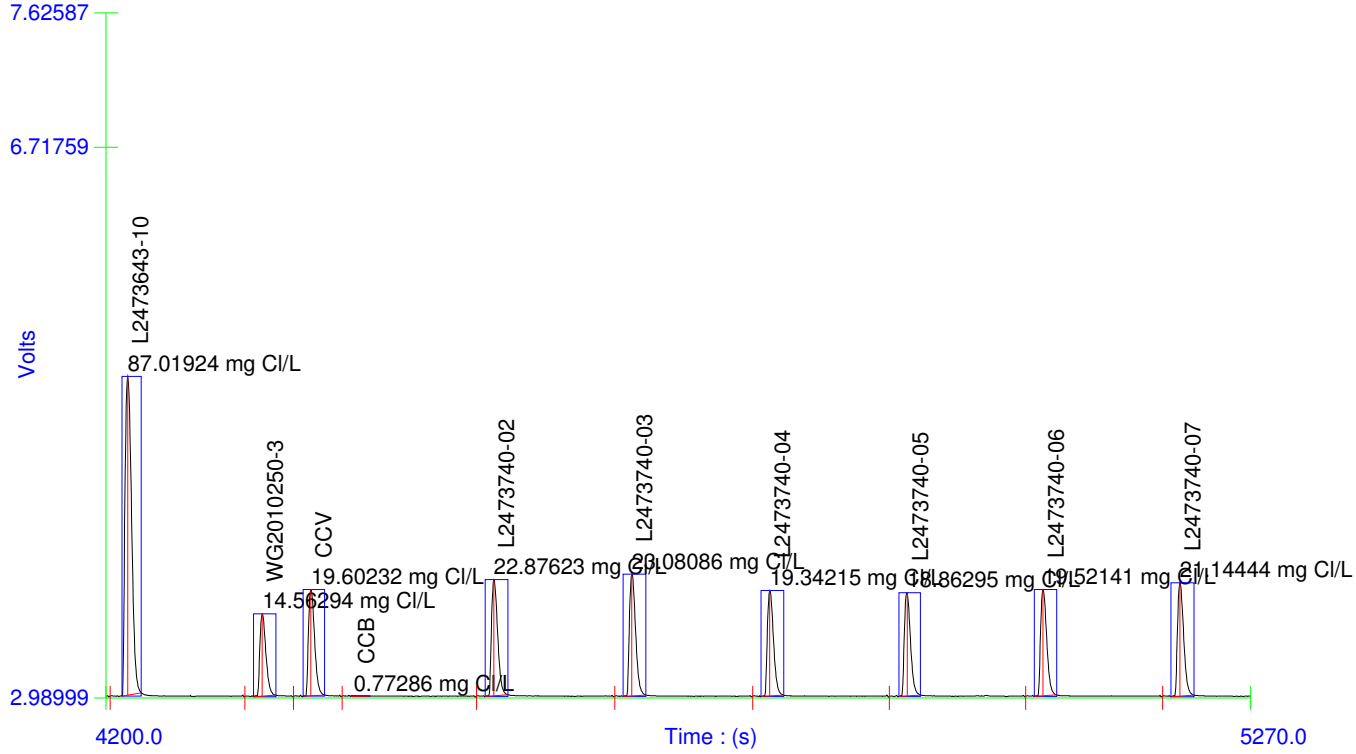


Author: Date : 12/17/2024

Channel 1 (Chloride) - Set: 7 / 10

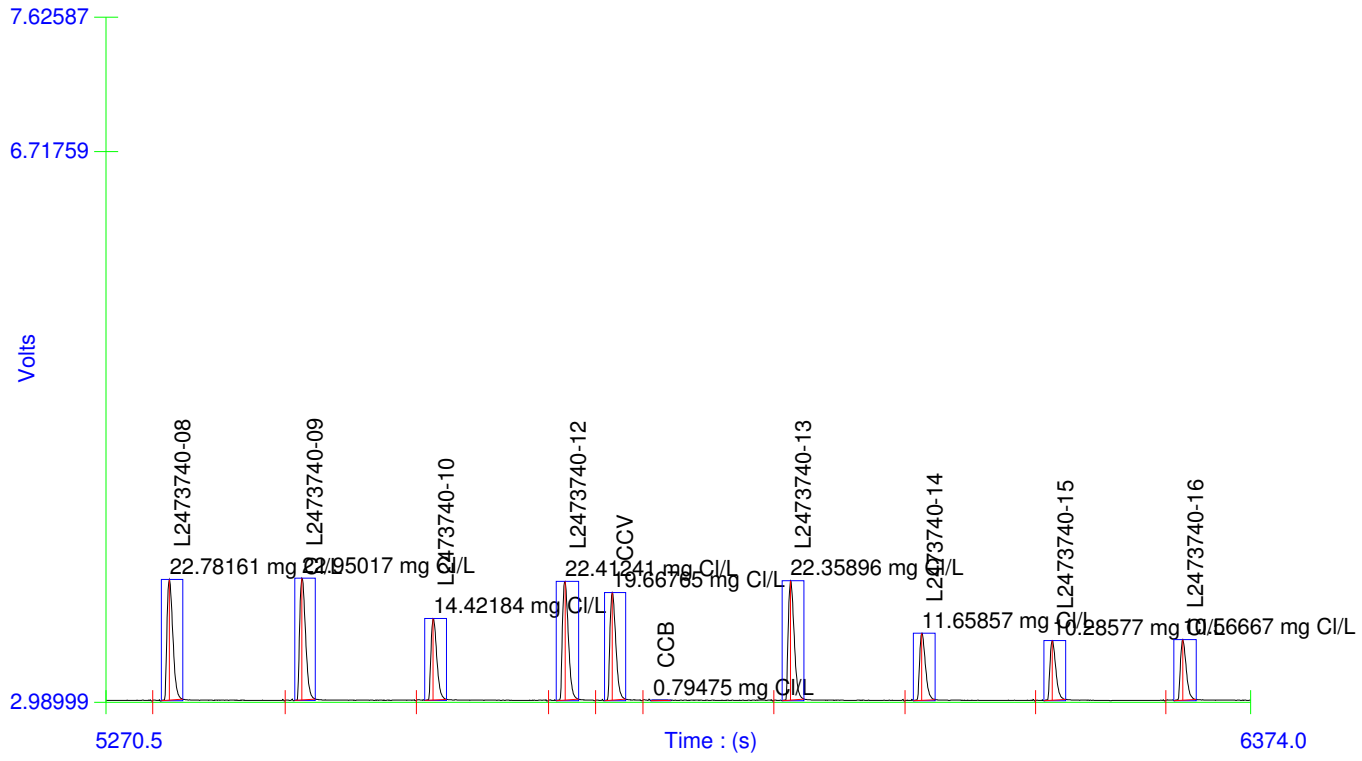


Channel 1 (Chloride) - Set: 8 / 10



Author: Date : 12/17/2024

Channel 1 (Chloride) - Set: 9 / 10



Author: Date : 12/17/2024

Channel 1 (Chloride) - Set: 10 / 10

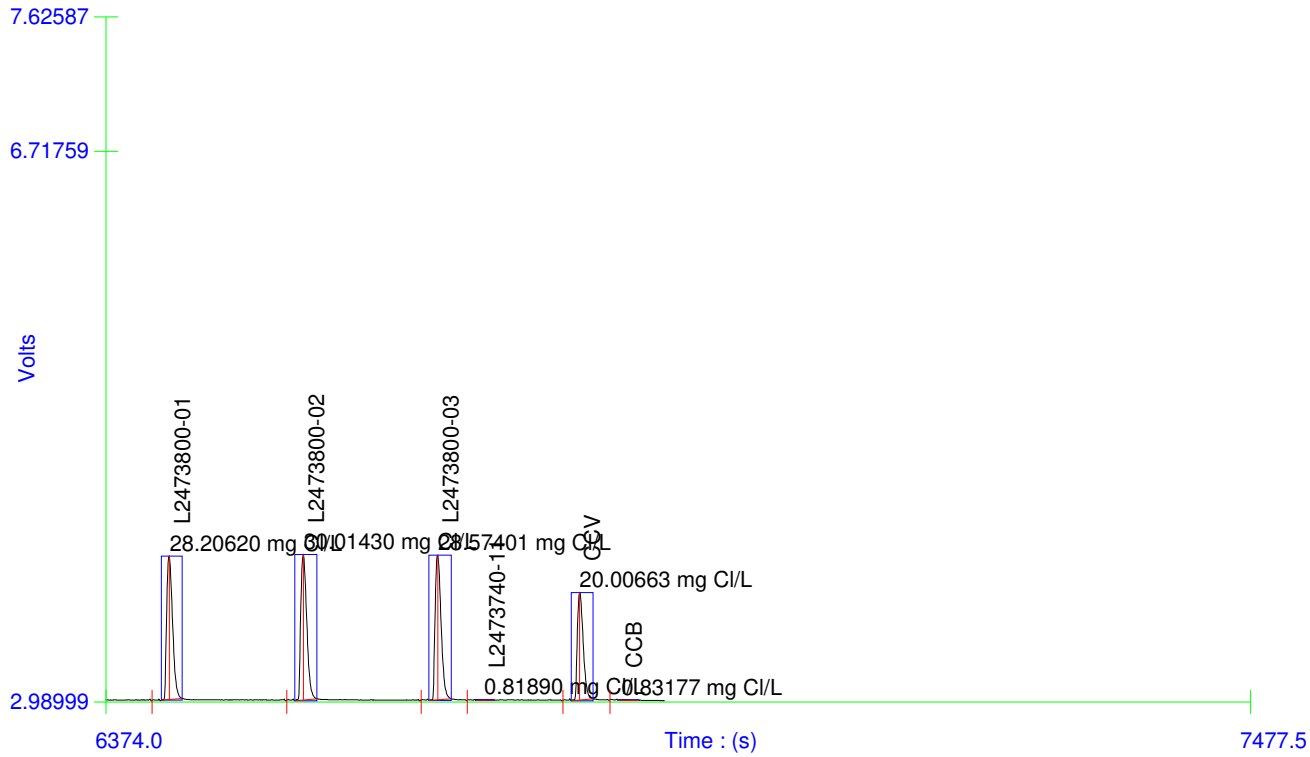
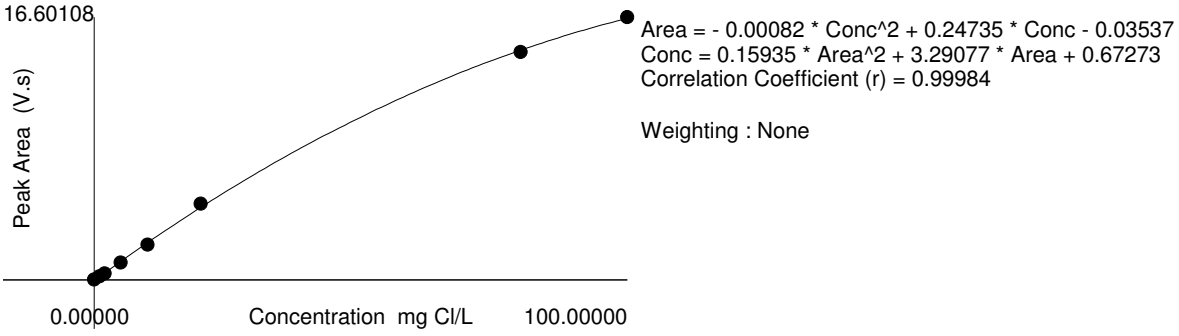


Table : 1 (Chloride-CH3)

	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	16.60108	2.30135	0.0	-0.5	99.22038	12/17/2024	10:51:58 AM
2	80.00000	1	14.39275	2.03163	0.0	0.9	81.04633	12/17/2024	10:52:43 AM
3	20.00000	1	4.81194	0.73336	0.0	-5.0	20.19754	12/17/2024	10:53:29 AM
4	10.00000	1	2.23743	0.32893	0.0	5.0	8.83334	12/17/2024	10:54:16 AM
5	5.00000	1	1.09086	0.16168	0.0	7.6	4.45214	12/17/2024	10:55:02 AM
6	2.00000	1	0.40775	0.05833	0.0	10.6	2.04104	12/17/2024	10:55:48 AM
7	1.00000	1	0.22970	0.02929	0.0	-8.8	1.43702	12/17/2024	10:56:35 AM
8	0.00000	1	0.03019	0.00433			0.77221	12/17/2024	10:57:20 AM

Figure : 1 (Chloride-CH3)



Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix**	: WATER
Lab Sample ID	: L2473162-06		
Matrix Spike	: WG2009725-4	**MS Analysis Date**	: 12/17/24 00:52
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	12.	20	32.	100					58-140	7

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2473538-01		
Matrix Spike	: WG2010248-4	**MS Analysis Date**	: 12/17/24 13:38
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	2.0	20	20.	90					58-140	7

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix**	: WATER
Lab Sample ID	: L2473162-06	**Analysis Date**	: 12/17/24 00:51
Dup Sample ID	: WG2009725-3	**DUP Analysis Date**	: 12/17/24 00:52

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Chloride	12.	13.	8 Q	7

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 12/17/24 13:37
Dup Sample ID	: WG2010248-3	**DUP Analysis Date**	: 12/17/24 13:37

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Chloride	2.0	2.0	0	7

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2009725-2	**LCS Analysis Date**	: 12/17/24 00:03
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**
Chloride	**30.0**	**28.0**	**93.**					**90-110**	**7**

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2010248-2	**LCS Analysis Date**	: 12/17/24 13:27
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**	**27.0**	**90.**					**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 ICVS
2 30
3 80
4 ICB
5 1000ppm 10x
6 WG#20097-22-1 BLK
7 -2 LCS
8 WG#20097-25/6/8-1 BLK
9 -2 LCS
10 72746-01
11 WG#20097-22-3 Dup
12 -4 MS
13 72976-01
14 73048-01
15 -02
16 -03
17 -04
18 -05
19 -06
20 -07
21 -08
22 -09
23 -10
24 73205-01
25 -02
26 -03
27 -04
28 73292-01
29 -02
30 -03
31 -04
32 73162-01
33 -02
34 -03
35 -04
36 -05
37 -06
38 WG#20097-25-3 Dup
39 -4 MS
40 ↳ 73162-07
41 -08
42 -09
43 -10
44 72567-01
45 WG#20097-26-3 Dup
46 -4 MS
47 72567-02
48 -03
49 73033-01
50 73484-01
51 73323-01
52 WG#20097-28-3 Dup
53 -4 MS
54 73323-02
55 -03
56 -04
57 -05
58 72149-01 .100075
59 72465-01 .101027
60 -02 .101066
61 WG#20097-30-3 Dup .100027
62 -4 MS .100418
63 72465-03 .101922
64 -04 .100504
65 WG#20097-30-1 BLK .100326
66 -2 LCS .100764

To Page No. ____

From Page No.

1 FCV 5
2 30
3 80
4 FCB
5 LOOppm 10X
6 WG 2009730-1 BLK .100326
7 -2 LCS .100364
8 72149-01 .100355
9 72465-01 .101217
10 -02 .101066
11 WG2009730-3 DUO .100217
12 -4 MS .100418
13 72465-03 .101982
14 -04 .100504
15 WG2010248/9-1 BLK
16 -2 LCS
17 WG2010250-1 BLK
18 -8 LCS
19 73162-02
20 -04
21 -07
22 -10
23 73892-04
24 73391-01
25 73538-01
26 WG2010848-3 DUP
27 -4 MS
28 73538-02
29 -03
30 -04
31 -05
32 73643-01
33 WG2010249-3 DUP
34 -4 MS
35 73643-02
36 -04
37 -05
38 73643-06
39 -07
40 -09
41 -10
42 73740-01
43 WG2010250-3 DUP
44 -4 MS
45 73740-02
46 -03
47 -04
48 -05
49 -06
50 -07
51 -08
52 -09
53 -10
54 -11
55 -12
56 -13
57 -14
58 -15
59 -16
60 73800-01
61 -02
62 -03

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	:	L2473162
Project Name	:	CORAM MATERIALS	Project Number	:	2232.0006Y005
Lab ID	:	L2473162-01	Date Collected	:	12/12/24 08:25
Client ID	:	MW-11S	Date Received	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	:	12/17/24 06:03
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	121,4500F-BC	Analyst	:	DTH
Lab File ID	:	WG2009964.csv	Instrument ID	:	
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	12/17/24

		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**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-02	**Date Collected**	:	12/12/24 08:42
Client ID	:	MW-11D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 06:03
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500F-BC	**Analyst**	:	DTH
Lab File ID	:	WG2009964.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/17/24

		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**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-03	**Date Collected**	:	12/12/24 09:50
Client ID	:	MW-1SR	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/15/24 08:27
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500F-BC	**Analyst**	:	DTH
Lab File ID	:	WG2009320.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/15/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.07	0.20	0.01	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-04	**Date Collected**	:	12/12/24 10:10
Client ID	:	MW-1DR2	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/15/24 08:27
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500F-BC	**Analyst**	:	DTH
Lab File ID	:	WG2009320.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/15/24

		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**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-05	**Date Collected**	:	12/12/24 11:40
Client ID	:	MP-1	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 06:03
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500F-BC	**Analyst**	:	DTH
Lab File ID	:	WG2009964.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.07	0.20	0.01	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-06	**Date Collected**	:	12/12/24 12:05
Client ID	:	MP-1D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 06:03
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500F-BC	**Analyst**	:	DTH
Lab File ID	:	WG2009964.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/17/24

		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**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-07	**Date Collected**	:	12/12/24 12:00
Client ID	:	DUP_121224	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 06:03
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500F-BC	**Analyst**	:	DTH
Lab File ID	:	WG2009964.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/17/24

		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**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-08	**Date Collected**	:	12/12/24 14:00
Client ID	:	MW-13S	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 06:03
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500F-BC	**Analyst**	:	DTH
Lab File ID	:	WG2009964.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/17/24

		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**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-09	**Date Collected**	:	12/12/24 14:05
Client ID	:	MW-13D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 06:03
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500F-BC	**Analyst**	:	DTH
Lab File ID	:	WG2009964.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.02	0.20	0.01	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-10	**Date Collected**	:	12/12/24 13:30
Client ID	:	EB_121224	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 06:03
Sample Matrix	:	Equipment Blank	**Dilution Factor**	:	1
Analytical Method	:	121,4500F-BC	**Analyst**	:	DTH
Lab File ID	:	WG2009964.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/17/24

		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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2009320-1	**Date Collected**	: NA
Client ID	: WG2009320-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/15/24 08:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG2009320.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/15/24

		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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2009320-3	**Date Collected**	: 12/10/24 13:18
Client ID	: WG2009320-3 DUP	**Date Received**	: 12/10/24
Sample Location	:	**Date Analyzed**	: 12/15/24 08:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG2009320.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/15/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.08	0.20	0.02	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2009964-1	**Date Collected**	: NA
Client ID	: WG2009964-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/17/24 06:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG2009964.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/17/24

		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**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	WG2009964-3	**Date Collected**	:	12/12/24 12:05
Client ID	:	MP-1DDUP	**Date Received**	:	12/12/24
Sample Location	:		**Date Analyzed**	:	12/17/24 06:03
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500F-BC	**Analyst**	:	DTH
Lab File ID	:	WG2009964.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.05	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: 12/17/2024 6:03
Method: SM 4500F-BC
Technician: DTH
LCS Concentration (mg/l): 2
Work group: WG2009964
Spike Concentration (mg/l): 1
RL: 0.20 mg/L
Distillation Date: 12/17/2024 2:08

Standard ID mg/L	Log Std-d	Reading mV	Result, Curve	Antilog Result	% Recovery	Calibration Curve	
						Slope	y-intercept
0.2	-0.699	124.5	-0.707	0.1964	98	-59.1980633	82.65
0.5	-0.301	100.2	-0.296	0.5053	101		
1.0	0.000	82.2	0.008	1.0177	102	Correlation Coefficient	
10	1.000	23.7	0.996	9.904	99	0.99994962	

	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	1.01	1.00	1.01	101%
SAMP	L2473162-01	50	50		YES	1.00	0.0261	1.00	0.03	
SAMP	L2473162-02	50	50		YES	1.00	0.0451	1.00	0.05	
SAMP	L2473162-05	50	50		YES	1.00	0.0696	1.00	0.07	
SAMP	L2473162-06	50	50		YES	1.00	0.0461	1.00	0.05	
SAMP	L2473162-07	50	50		YES	1.00	0.048	1.00	0.05	
SAMP	L2473162-08	50	50		YES	1.00	0.0403	1.00	0.04	
SAMP	L2473162-09	50	50		YES	1.00	0.0198	1.00	0.02	
SAMP	L2473162-10	50	50		YES	1.00	0.00593	1.00	0.01	
	CCV	50	50		YES	1.00	0.994	1.00	0.99	
	CCB	50	50		YES	1.00	0	1.00	0.00	
	CCV	50	50		YES	1.00	0.992	1.00	0.99	
	CCB	50	50		YES	1.00	0	1.00	0.00	
	CCV	50	50		YES	1.00	0.994	1.00	0.99	
	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	WG2009964-1	50	50		YES	1.00	0	1.00	0.00	
DUP	WG2009964-3	50	50		YES	1.00	0.0453	1.00	0.05	L2473162-06

	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	WG2009964-4	50	50		YES	.05	0.991	1	0.99	94
LCS	WG2009964-2	50	50		YES		1.79	2	1.79	90

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: 12/15/2024 8:27
Method: SM 4500F-BC
Technician: DTH
LCS Concentration (mg/l): 2
Work group: WG2009320
Spike Concentration (mg/l): 1
RL: 0.20 mg/L
Distillation Date: 12/15/2024 3:33

Standard ID mg/L	Log Std-d	Reading mV	Result, Curve	Antilog Result	% Recovery	Calibration Curve	
						Slope	y-intercept
0.2	-0.699	122.2	-0.702	0.1987	99	-56.671914	82.425
0.5	-0.301	98.6	-0.285	0.5183	104		
1.0	0.000	83.3	-0.015	0.9651	97	Correlation Coefficient	
10	1.000	25.6	1.003	10.062	101	0.99984278	

	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	1.06	1.00	1.06	106%
	L2471891-01	50	50		YES	1.00	0.341	1.00	0.34	
	L2472273-02	25	50		YES	2.00	0.374	2.00	0.75	
SAMP	L2472333-01	50	50		YES	1.00	0.0363	1.00	0.04	
SAMP	L2472333-02	50	50		YES	1.00	0.0265	1.00	0.03	
SAMP	L2472333-03	50	50		YES	1.00	0.0472	1.00	0.05	
SAMP	L2472333-04	50	50		YES	1.00	0.0808	1.00	0.08	
SAMP	L2472333-05	50	50		YES	1.00	0.0797	1.00	0.08	
SAMP	L2473162-03	50	50		YES	1.00	0.0743	1.00	0.07	
SAMP	L2473162-04	50	50		YES	1.00	0.0284	1.00	0.03	
SAMP	L2473538-01	50	50		YES	1.00	0.0275	1.00	0.03	
SAMP	L2473538-02	50	50		YES	1.00	0.0339	1.00	0.03	
SAMP	L2473538-03	50	50		YES	1.00	0.0236	1.00	0.02	
SAMP	L2473538-04	50	50		YES	1.00	0.0149	1.00	0.01	
SAMP	L2473538-05	50	50		YES	1.00	0.0632	1.00	0.06	
	CCV	50	50		YES	1.00	1.06	1.00	1.06	
	CCB	50	50		YES	1.00	0	1.00	0.00	
	CCV	50	50		YES	1.00	1.05	1.00	1.05	
	CCB	50	50		YES	1.00	0	1.00	0.00	
						1.00		1.00		
						1.00		1.00		
BLANK	WG2009320-1	50	50		YES	1.00		1.00		
DUP	WG2009320-3	50	50		YES	1.00	0.0823	1.00	0.08	L2472333-04

	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	WG2009320-4	50	50		YES	.08	1.03	1	1.03	95
LCS	WG2009320-2	50	50		YES		1.81	2	1.81	91

last sample

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2472333-04		
Matrix Spike	: WG2009320-4	**MS Analysis Date**	: 12/15/24 08:27
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
Fluoride	0.08J	1	1.0	103					69-124	13

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix**	: WATER
Lab Sample ID	: L2473162-06		
Matrix Spike	: WG2009964-4	**MS Analysis Date**	: 12/17/24 06:03
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	0.99	99					69-124	13

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 12/15/24 08:27
Dup Sample ID	: WG2009320-3	**DUP Analysis Date**	: 12/15/24 08:27

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Fluoride	0.08J	0.08J	NC	13

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix**	: WATER
Lab Sample ID	: L2473162-06	**Analysis Date**	: 12/17/24 06:03
Dup Sample ID	: WG2009964-3	**DUP Analysis Date**	: 12/17/24 06:03

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Fluoride	0.05J	0.05J	NC	13

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2009320-2	**LCS Analysis Date**	: 12/15/24 08:27
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**
Fluoride	**2.00**	**1.80**	**90.**					**78-120**	**13**

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2009964-2	**LCS Analysis Date**	: 12/17/24 06:03
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**
Fluoride	**2.00**	**1.80**	**90.**					**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

WG2009964 WG2009993

STD	MV
0.2	124.5
0.5	100.2
1.0	82.2
10.0	23.7

Analyst: DTH
Date & Time: 12/17/24 6:03
ICV: F092424
LCS: F092424
Spike: F ~~32~~ 092424
Curve: WC- 3253
TISAB III: R- 4215

Sample	Volume 50mL	Final Volume 50mL	Meter
ICV			1.01
IIB			0.0
Blank			0.0
LCS			1.79
73162-01			0.0261
-02			0.0451
-05			0.0696
-06			0.0401
Dup 06			0.0453
ms 06			DTH 0.991
-07			0.0480
-08			0.0403
CCV			0.994
CCB			0.0
-09			0.0198
-10			0.00593
CCV			0.992
CCB			0.0
Blank			0.0
LCS			1.85
73731-01			0.0646
-Dup01			0.0652
-ms 01			1.95
CCV			0.994
CCB			0.0

To Page No.

Witnessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

Tube	Sample	Volume	Final Volume	Comments
1	Blank	50mL	50mL	DTH 12/17/24 2:08
2	LCS			1.0mL F0905424
3	731627-01			
4	-02			
5	-05			
6	-06			
7	-Dup 06			
8	-MS 06			0.5mL F0905424
9	-07			
10	-08			
11	-09			
12	-10			

essed & Understood by me, | Date | Invented by: | Date

Recorded by:

Project No. _____

TITLE _____ Confiden

From Page No. _____

WG2009320

Analyst: DTH 8127
Date & Time: 12/15/24
ICV:F 12152024
LCS:F 092424
Spike:F 092424
Curve:WC- 3353
TISAB III: R- 4215

STD	MV
0.0	122.7
0.5	98.6
1.0	83.3
10.0	25.6

Sample	Volume	Final Volume	Meter
ICV	50mL	50mL	1.06
ICB			0.0
Blank			0.0
LCS			1.81
71891-01			0.341
72273-02	2x(25mL/50mL)		0.374
72333-01	50mL		0.0363
-02			0.0265
~~-03~~			0.0472
-04			0.0808
-Dup 04			0.0823
-MS 04			1.03
CCV			1.06
CCB			0.0
-05			0.0797
73162-03			0.0743
-04			0.0284
73588-01			0.0275
-02			0.0339
-03			0.0236
-04			0.0149
-05			0.0632
CCV			1.05
CCB			0.00

To Page No. _____

Witnessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

Phosphates Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-01	**Date Collected**	:	12/12/24 08:25
Client ID	:	MW-11S	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 10:16
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500P-E(M)	**Analyst**	:	EYA
Lab File ID	:	PHOS121924-WG2010879	**Instrument ID**	:	SEAL2
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/18/24

		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**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-02	**Date Collected**	:	12/12/24 08:42
Client ID	:	MW-11D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 10:17
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500P-E(M)	**Analyst**	:	EYA
Lab File ID	:	PHOS121924-WG2010879	**Instrument ID**	:	SEAL2
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.092	0.031	0.012	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-03	**Date Collected**	:	12/12/24 09:50
Client ID	:	MW-1SR	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 10:18
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500P-E(M)	**Analyst**	:	EYA
Lab File ID	:	PHOS121924-WG2010879	**Instrument ID**	:	SEAL2
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/18/24

		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**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-04	**Date Collected**	:	12/12/24 10:10
Client ID	:	MW-1DR2	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 10:19
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500P-E(M)	**Analyst**	:	EYA
Lab File ID	:	PHOS121924-WG2010879	**Instrument ID**	:	SEAL2
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/18/24

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

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-05	**Date Collected**	:	12/12/24 11:40
Client ID	:	MP-1	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 10:20
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500P-E(M)	**Analyst**	:	EYA
Lab File ID	:	PHOS121924-WG2010879	**Instrument ID**	:	SEAL2
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.095	0.031	0.012	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-06	**Date Collected**	:	12/12/24 12:05
Client ID	:	MP-1D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 10:20
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500P-E(M)	**Analyst**	:	EYA
Lab File ID	:	PHOS121924-WG2010879	**Instrument ID**	:	SEAL2
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.071	0.031	0.012	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-07	**Date Collected**	:	12/12/24 12:00
Client ID	:	DUP_121224	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 10:24
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500P-E(M)	**Analyst**	:	EYA
Lab File ID	:	PHOS121924-WG2010879	**Instrument ID**	:	SEAL2
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.077	0.031	0.012	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-08	**Date Collected**	:	12/12/24 14:00
Client ID	:	MW-13S	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 10:25
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500P-E(M)	**Analyst**	:	EYA
Lab File ID	:	PHOS121924-WG2010879	**Instrument ID**	:	SEAL2
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.092	0.031	0.012	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-09	**Date Collected**	:	12/12/24 14:05
Client ID	:	MW-13D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 10:26
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500P-E(M)	**Analyst**	:	EYA
Lab File ID	:	PHOS121924-WG2010879	**Instrument ID**	:	SEAL2
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.022	0.031	0.012	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-10	**Date Collected**	:	12/12/24 13:30
Client ID	:	EB_121224	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 10:27
Sample Matrix	:	Equipment Blank	**Dilution Factor**	:	1
Analytical Method	:	121,4500P-E(M)	**Analyst**	:	EYA
Lab File ID	:	PHOS121924-WG2010879	**Instrument ID**	:	SEAL2
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/18/24

		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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010879-1	**Date Collected**	: NA
Client ID	: WG2010879-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/19/24 10:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS121924-WG2010879	**Instrument ID**	: SEAL2
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/18/24

		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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010879-3	**Date Collected**	: 12/12/24 12:05
Client ID	: MP-1DDUP	**Date Received**	: 12/12/24
Sample Location	:	**Date Analyzed**	: 12/19/24 10:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS121924-WG2010879	**Instrument ID**	: SEAL2
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/18/24

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

Sample Raw Data

AQ2 Tray Report

Software version : 2.4.5
Report requested by : EAsamoah
Date \ Time : 19-Dec-2024 10:47:16
Tray number : 1
Tray name : WG2010876,79

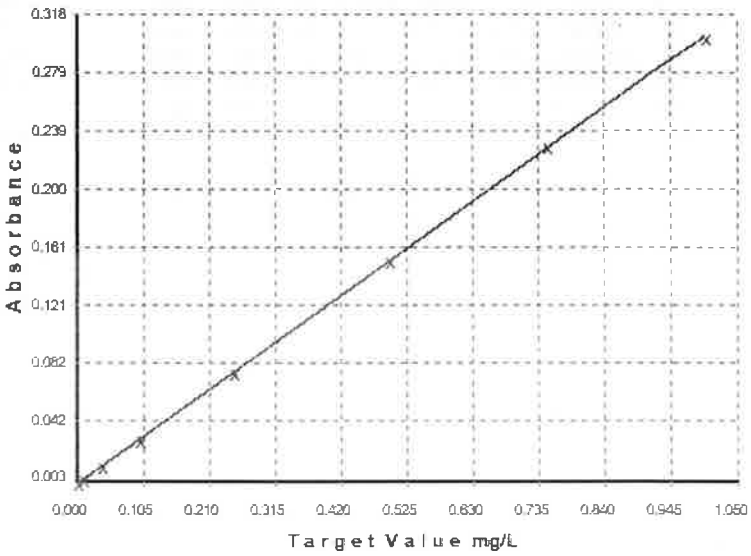
T-Phos 1

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0026	0.001	0.000	
S90	0.0055	0.011	0.010	6.69
S91	0.0140	0.039	0.040	-3.25
S92	0.0317	0.097	0.100	-2.83
S93	0.0778	0.250	0.250	-0.10
S94	0.1541	0.502	0.500	0.40
S95	0.2306	0.755	0.750	0.68
S96	0.3033	0.996	1.000	-0.44
S0	0.0028	0.002	0.000	

Polynomial Order : 1
Correlation Coefficient : 1.0000
Carryover(%) : 0.1
Calibration equation: y = bx + a
y =: Concentration mg/L
x =: Measured absorbance
a =: -7.574690E-03
b =: 3.307829E+00
Date & Time : 19-Dec-2024 09:57:22

Calibration Graph



Reagents

Reagent Name	Batch Number	Operator	Expiry Date
TP Working Color	TP Color-12112024	MEF	17-Dec-2024 00:00:00
TP Ascorbic	TP Ascorbic-12112024	MEF	18-Dec-2024 00:00:00

Test Results

Cup	Type	ID	Sample Details	Result	Units	QC	Pro Raw Data	Auto Dil.	Man Dil.	User	Time & Date
	S1	Standard 1		0.003			0.002604			EYA	19-Dec-2024 09:49:35
	S90	Standard 90		0.006			0.005515			EYA	19-Dec-2024 09:50:33
	S91	Standard 91		0.014			0.013990			EYA	19-Dec-2024 09:51:31
	S92	Standard 92		0.032			0.031665			EYA	19-Dec-2024 09:52:29
	S93	Standard 93		0.078			0.077796			EYA	19-Dec-2024 09:53:28
	S94	Standard 94		0.154			0.154055			EYA	19-Dec-2024 09:54:26
	S95	Standard 95		0.231			0.230556			EYA	19-Dec-2024 09:55:25
	S96	Standard 96		0.303			0.303267			EYA	19-Dec-2024 09:56:23
	S0	Standard 0		0.003			0.002795			EYA	19-Dec-2024 09:57:22
2	ICV	ICV	18-DEC-2024 15-33	0.463	mg/L		0.142141			EYA	19-Dec-2024 09:58:21
3	ICB	ICB	18-DEC-2024 15-33	0.000	mg/L		0.002381			EYA	19-Dec-2024 09:59:21
4	U1	WG2010876-1	18-DEC-2024 15-33	0.000ELL	mg/L		0.002379			EYA	19-Dec-2024 10:00:22
5	U2	WG2010876-2	18-DEC-2024 15-33	0.471	mg/L		0.144721			EYA	19-Dec-2024 10:01:21
6	U3	L2472929-01-5	18-DEC-2024 15-33	0.255	mg/L		0.017689	x5.0000		EYA	19-Dec-2024 10:02:20
7	U4	L2472970-01	18-DEC-2024 15-33	0.253	mg/L		0.078637			EYA	19-Dec-2024 10:03:19
8	U5	L2472970-02	18-DEC-2024 15-33	0.325	mg/L		0.100437			EYA	19-Dec-2024 10:04:18
9	U6	L2472970-03	18-DEC-2024 15-33	0.056	mg/L		0.019129			EYA	19-Dec-2024 10:05:17
10	U7	L2472970-04	18-DEC-2024 15-33	0.324	mg/L		0.100216			EYA	19-Dec-2024 10:06:16
11	U8	L2473088-01-25	18-DEC-2024 15-33	3.345	mg/L		0.042740	x25.0000		EYA	19-Dec-2024 10:07:15

12	U9	L2473088-02-10	18-DEC-2024 15-33	0.689	mg/L	0.023134	x10.0000	EYA	19-Dec-2024 10:08:14
13	U10	L2473088-03-10	18-DEC-2024 15-33	0.960	mg/L	0.031310	x10.0000	EYA	19-Dec-2024 10:09:12
	CCV	CCV		0.457	mg/L	0.140445		EYA	19-Dec-2024 10:10:11
	CCB	CCB		-0.000	mg/L	0.002206		EYA	19-Dec-2024 10:11:12
14	U11	L2473210-16	18-DEC-2024 15-33	0.000ELL	mg/L	0.002350		EYA	19-Dec-2024 10:12:13
15	U12	WG2010876-3	18-DEC-2024 15-33	0.001	mg/L	0.002699		EYA	19-Dec-2024 10:13:11
16	U13	WG2010876-4	18-DEC-2024 15-33	0.510	mg/L	0.156475		EYA	19-Dec-2024 10:14:10
17	U14	L2473065-03O	18-DEC-2024 15-33	0.004	mg/L	0.003401		EYA	19-Dec-2024 10:15:08
18	U15	L2473162-01O	18-DEC-2024 15-33	0.006	mg/L	0.004053		EYA	19-Dec-2024 10:16:06
19	U16	L2473162-02O	18-DEC-2024 15-33	0.030	mg/L	0.011409		EYA	19-Dec-2024 10:17:04
20	U17	L2473162-03O	18-DEC-2024 15-33	0.009	mg/L	0.004937		EYA	19-Dec-2024 10:18:02
21	U18	L2473162-04O	18-DEC-2024 15-33	0.005	mg/L	0.003651		EYA	19-Dec-2024 10:19:03
22	U19	L2473162-05O	18-DEC-2024 15-33	0.031	mg/L	0.011516		EYA	19-Dec-2024 10:20:03
23	U20	L2473162-06O	18-DEC-2024 15-33	0.023	mg/L	0.009339		EYA	19-Dec-2024 10:20:36
	CCV	CCV		0.464	mg/L	0.142534		EYA	19-Dec-2024 10:21:34
	CCB	CCB		-0.000	mg/L	0.002263		EYA	19-Dec-2024 10:22:25
24	U21	WG2010879-3O	18-DEC-2024 15-33	0.024	mg/L	0.009694		EYA	19-Dec-2024 10:23:17
25	U22	WG2010879-4O	18-DEC-2024 15-33	0.528	mg/L	0.162025		EYA	19-Dec-2024 10:24:08
26	U23	L2473162-07O	18-DEC-2024 15-33	0.025	mg/L	0.009903		EYA	19-Dec-2024 10:24:59
27	U24	L2473162-08O	18-DEC-2024 15-33	0.030	mg/L	0.011470		EYA	19-Dec-2024 10:25:50
28	U25	L2473162-09O	18-DEC-2024 15-33	0.007	mg/L	0.004449		EYA	19-Dec-2024 10:26:41
29	U26	L2473162-10O	18-DEC-2024 15-33	0.002	mg/L	0.002778		EYA	19-Dec-2024 10:27:33
	CCV	CCV		0.460	mg/L	0.141359		EYA	19-Dec-2024 10:28:24
	CCB	CCB		0.001	mg/L	0.002501		EYA	19-Dec-2024 10:29:15

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix**	: WATER
Lab Sample ID	: L2473162-06		
Matrix Spike	: WG2010879-4	**MS Analysis Date**	: 12/19/24 10:24
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	0.071	1.53	1.62	101					80-120	15

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix**	: WATER
Lab Sample ID	: L2473162-06	**Analysis Date**	: 12/19/24 10:20
Dup Sample ID	: WG2010879-3	**DUP Analysis Date**	: 12/19/24 10:23

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Phosphate, Total	0.071	0.074	4	15

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2010879-2	**LCS Analysis Date**	: 12/19/24 10:01
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**
Phosphate, Total	**1.53**	**1.44**	**94.**					**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**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-01	**Date Collected**	:	12/12/24 08:25
Client ID	:	MW-11S	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 17:46
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,2540D	**Analyst**	:	REM
Lab File ID	:	WG2010401.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	:	L2473162
Project Name	:	CORAM MATERIALS	Project Number	:	2232.0006Y005
Lab ID	:	L2473162-02	Date Collected	:	12/12/24 08:42
Client ID	:	MW-11D	Date Received	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	:	12/17/24 17:46
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	121,2540D	Analyst	:	REM
Lab File ID	:	WG2010401.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	6.7	5.0	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-03	**Date Collected**	: 12/12/24 09:50
Client ID	: MW-1SR	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/16/24 13:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540D	**Analyst**	: BAY
Lab File ID	: WG2009794.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**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-04	**Date Collected**	:	12/12/24 10:10
Client ID	:	MW-1DR2	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 17:46
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,2540D	**Analyst**	:	REM
Lab File ID	:	WG2010401.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**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-05	**Date Collected**	:	12/12/24 11:40
Client ID	:	MP-1	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 17:46
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,2540D	**Analyst**	:	REM
Lab File ID	:	WG2010401.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**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-06	**Date Collected**	:	12/12/24 12:05
Client ID	:	MP-1D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 17:46
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,2540D	**Analyst**	:	REM
Lab File ID	:	WG2010401.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	5.1	5.0	NA	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2473162
Project Name	:	CORAM MATERIALS	Project Number	:	2232.0006Y005
Lab ID	:	L2473162-07	Date Collected	:	12/12/24 12:00
Client ID	:	DUP_121224	Date Received	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	:	12/17/24 17:46
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	121,2540D	Analyst	:	REM
Lab File ID	:	WG2010401.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	11.	5.0	NA	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-08	**Date Collected**	:	12/12/24 14:00
Client ID	:	MW-13S	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 17:46
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,2540D	**Analyst**	:	REM
Lab File ID	:	WG2010401.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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-09	**Date Collected**	: 12/12/24 14:05
Client ID	: MW-13D	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/16/24 13:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540D	**Analyst**	: BAY
Lab File ID	: WG2009794.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	:	L2473162
Project Name	:	CORAM MATERIALS	Project Number	:	2232.0006Y005
Lab ID	:	L2473162-10	Date Collected	:	12/12/24 13:30
Client ID	:	EB_121224	Date Received	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	:	12/16/24 13:33
Sample Matrix	:	Equipment Blank	Dilution Factor	:	1
Analytical Method	:	121,2540D	Analyst	:	BAY
Lab File ID	:	WG2009794.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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2009794-1	**Date Collected**	: NA
Client ID	: WG2009794-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/16/24 13:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540D	**Analyst**	: BAY
Lab File ID	: WG2009794.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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2009794-3	**Date Collected**	: 12/11/24 16:30
Client ID	: WG2009794-3 DUP	**Date Received**	: 12/12/24
Sample Location	:	**Date Analyzed**	: 12/16/24 13:33
Sample Matrix	: WATER	**Dilution Factor**	: 3.3
Analytical Method	: 121,2540D	**Analyst**	: BAY
Lab File ID	: WG2009794.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	420	16	NA	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	WG2009794-4	**Date Collected**	:	12/11/24 13:20
Client ID	:	WG2009794-4 DUP	**Date Received**	:	12/12/24
Sample Location	:		**Date Analyzed**	:	12/16/24 13:33
Sample Matrix	:	WATER	**Dilution Factor**	:	2.5
Analytical Method	:	121,2540D	**Analyst**	:	BAY
Lab File ID	:	WG2009794.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	350	12	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010401-1	**Date Collected**	: NA
Client ID	: WG2010401-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/17/24 17:46
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540D	**Analyst**	: REM
Lab File ID	: WG2010401.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	:	L2473162
Project Name	:	CORAM MATERIALS	Project Number	:	2232.0006Y005
Lab ID	:	WG2010401-3	Date Collected	:	12/12/24 12:05
Client ID	:	MP-1DDUP	Date Received	:	12/12/24
Sample Location	:		Date Analyzed	:	12/17/24 17:46
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	121,2540D	Analyst	:	REM
Lab File ID	:	WG2010401.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	5.8	5.0	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010401-4	**Date Collected**	: 12/12/24 09:30
Client ID	: WG2010401-4 DUP	**Date Received**	: 12/12/24
Sample Location	:	**Date Analyzed**	: 12/17/24 17:46
Sample Matrix	: WATER	**Dilution Factor**	: 2
Analytical Method	: 121,2540D	**Analyst**	: REM
Lab File ID	: WG2010401.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	50.	10	NA	

Sample Raw Data

Wet Chemistry Gravimetric ELN

Printed: DEC-18-24 11:50:55

WorkGroup	WG2010401	**Temp In (C)**	105	**Temp In (C)**	105	**Temp In (C)**		**Temp In (C)**		**Temp In (C)**					
Title	Solids, Total Suspended	**Temp Out (C)**	105	**Temp Out (C)**	105	**Temp Out (C)**		**Temp Out (C)**		**Temp Out (C)**					
Method	SM2540D	**Time In**	17-DEC-24 18:41	**Time In**	18-DEC-24 06:51	**Time In**		**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	18-DEC-24 06:28	**Time Out**	18-DEC-24 11:27	**Time Out**		**Time Out**		**Time Out**					
		Evaporation	**Temp In (C)**	**Time In**								**LCS Lot #** 86368		**TrueValue** 223	**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
L2472825-01	17-DEC-24 17:46	RENATA MUKHAMETZHANOVA	4	18211399	.4301	1000	.4464	.4465				16.30	1	
L2472826-01	17-DEC-24 17:46	RENATA MUKHAMETZHANOVA	5	18211399	.4301	500	.4601	.4599				59.60	2	
L2472904-01	17-DEC-24 17:46	RENATA MUKHAMETZHANOVA	6	18211399	.4221	1000	.4323	.4327				10.20	1	
L2472932-01	17-DEC-24 17:46	RENATA MUKHAMETZHANOVA	7	18211399	.4311	1000	.4344	.4348				3.30	1	INFLUENT
L2472932-02	17-DEC-24 17:46	RENATA MUKHAMETZHANOVA	8	18211399	.4336	1000	.4343	.4345				0.70	1	EFFLUENT
L2473034-01	17-DEC-24 17:46	RENATA MUKHAMETZHANOVA	9	18211399	.4337	1000	.4419	.4417				8.00	1	
L2473057-01	17-DEC-24 17:46	RENATA MUKHAMETZHANOVA	10	18211399	.4312	500	.505	.5046				146.80	2	
L2473057-06	17-DEC-24 17:46	RENATA MUKHAMETZHANOVA	11	18211399	.4337	500	.466	.4658				64.20	2	
L2473057-07	17-DEC-24 17:46	RENATA MUKHAMETZHANOVA	12	18211399	.428	1000	.4346	.4344				6.40	1	
L2473066-01	17-DEC-24 17:46	RENATA MUKHAMETZHANOVA	13	18211399	.4336	950	.4366	.4362				2.74	1.1	VOL
L2473162-01	17-DEC-24 17:46	RENATA MUKHAMETZHANOVA	14	18211399	.431	1000	.4313	.4311				0.10	1	
L2473162-02	17-DEC-24 17:46	RENATA MUKHAMETZHANOVA	15	18211399	.43	1000	.4367	.4367				6.70	1	

Wet Chemistry Gravimetric ELN

Printed: DEC-18-24 11:50:55

WorkGroup	WG2010401	**Temp In (C)**	105	**Temp In (C)**	105	**Temp In (C)**		**Temp In (C)**		**Temp In (C)**			
Title	Solids, Total Suspended	**Temp Out (C)**	105	**Temp Out (C)**	105	**Temp Out (C)**		**Temp Out (C)**		**Temp Out (C)**			
Method	SM2540D	**Time In**	17-DEC-24 18:41	**Time In**	18-DEC-24 06:51	**Time In**		**Time In**		**Time In**			
Instrument	BALANCE#22	**Time Out**	18-DEC-24 06:28	**Time Out**	18-DEC-24 11:27	**Time Out**		**Time Out**		**Time Out**			
		Temp In (C)		**Time In**						**LCS Lot #**	**TrueValue**	**Units**	
										86368	223	mg/l	

Sample #	Analysis Date	Analyst	Cup ID			Sample Volume (ml)			Result mg/L	Dil	Comment
L2473162-04	17-DEC-24 17:46	RENATA MUKHAMETZHANOVA	16	18211399	.4339	1000	.4376	.4375	3.60	1	
L2473162-05	17-DEC-24 17:46	RENATA MUKHAMETZHANOVA	17	18211399	.432	1000	.4324	.4326	0.40	1	
L2473162-06	17-DEC-24 17:46	RENATA MUKHAMETZHANOVA	18	18211399	.4292	1000	.4344	.4343	5.10	1	
L2473162-07	17-DEC-24 17:46	RENATA MUKHAMETZHANOVA	19	18211399	.4304	1000	.4416	.4414	11.00	1	
L2473162-08	17-DEC-24 17:46	RENATA MUKHAMETZHANOVA	20	18211399	.4337	1000	.4348	.4345	0.80	1	
L2473240-01	17-DEC-24 17:46	RENATA MUKHAMETZHANOVA	21	18211399	.4271	250	.5053	.5049	311.20	4	
L2473253-01	17-DEC-24 17:46	RENATA MUKHAMETZHANOVA	22	18211399	.4244	500	.4454	.4451	41.40	2	
L2473760-01	17-DEC-24 17:46	RENATA MUKHAMETZHANOVA	23	18211399	.4338	500	.4527	.4527	37.80	2	
WG2010401-1	17-DEC-24 17:46	RENATA MUKHAMETZHANOVA	1	18211399	.432	1000	.4322	.4321	0.10	1	
WG2010401-2	17-DEC-24 17:46	RENATA MUKHAMETZHANOVA	24	18211399	.4286	250	.479	.4788	200.80	4	
WG2010401-3	17-DEC-24 17:46	RENATA MUKHAMETZHANOVA	2	18211399	.4305	1000	.4366	.4363	5.80	1	
WG2010401-4	17-DEC-24 17:46	RENATA MUKHAMETZHANOVA	3	18211399	.4325	500	.4576	.4579	50.20	2	

Wet Chemistry Gravimetric ELN

Printed: DEC-17-24 09:30:36

WorkGroup	WG2009794	**Temp In (C)**	105	**Temp In (C)**	105	**Temp In (C)**		**Temp In (C)**		**Temp In (C)**	
Title	Solids, Total Suspended	**Temp Out (C)**	105	**Temp Out (C)**	105	**Temp Out (C)**		**Temp Out (C)**		**Temp Out (C)**	
Method	SM2540D	**Time In**	16-DEC-24 14:28	**Time In**	17-DEC-24 07:33	**Time In**		**Time In**		**Time In**	
Instrument	BALANCE#22	**Time Out**	17-DEC-24 07:09	**Time Out**	17-DEC-24 09:04	**Time Out**		**Time Out**		**Time Out**	

				LCS Lot #	**TrueValue**	**Units**
Evaporation	**Temp In (C)**	**Time In**		86372	223	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
L2472687-01	16-DEC-24 13:33	BRYHANNAH YOUNG	4	18211399	.4157	750	.4567	.4567				54.67	1.3	matrix
L2472962-01	16-DEC-24 13:33	BRYHANNAH YOUNG	5	18211399	.4194	1000	.4255	.4253				5.90	1	
L2472962-02	16-DEC-24 13:33	BRYHANNAH YOUNG	6	18211399	.4229	1000	.425	.4252				2.10	1	
L2472967-01	16-DEC-24 13:33	BRYHANNAH YOUNG	7	18211399	.4266	1000	.4621	.4618				35.20	1	
L2473046-01	16-DEC-24 13:33	BRYHANNAH YOUNG	8	18211399	.4262	300	.5452	.545				396.00	3.3	
L2473162-03	16-DEC-24 13:33	BRYHANNAH YOUNG	9	18211399	.4296	1000	.4306	.4307				1.00	1	
L2473162-09	16-DEC-24 13:33	BRYHANNAH YOUNG	10	18211399	.4148	1000	.4159	.416				1.10	1	
L2473162-10	16-DEC-24 13:33	BRYHANNAH YOUNG	11	18211399	.4255	1000	.4264	.4264				0.90	1	
L2473201-01	16-DEC-24 13:33	BRYHANNAH YOUNG	12	18211399	.42	900	.4249	.4251				5.44	1.1	limited volume
L2473201-02	16-DEC-24 13:33	BRYHANNAH YOUNG	13	18211399	.4193	1000	.4483	.4481				28.80	1	
L2473201-03	16-DEC-24 13:33	BRYHANNAH YOUNG	14	18211399	.4233	950	.4446	.4445				22.32	1.1	limited volume
L2473203-01	16-DEC-24 13:33	BRYHANNAH YOUNG	15	18211399	.4212	400	.5227	.5223				252.75	2.5	
L2473207-02	16-DEC-24 13:33	BRYHANNAH YOUNG	16	18211399	.4189	900	.4265	.4261				8.00	1.1	limited volume
L2473233-01	16-DEC-24 13:33	BRYHANNAH YOUNG	17	18211399	.4165	850	.4205	.4208				4.71	1.2	limited volume
L2473233-02	16-DEC-24 13:33	BRYHANNAH YOUNG	18	18211399	.4177	950	.4211	.421				3.47	1.1	limited volume
L2473233-03	16-DEC-24 13:33	BRYHANNAH YOUNG	19	18211399	.4247	750	.4315	.4312				8.67	1.3	limited volume
L2473233-04	16-DEC-24 13:33	BRYHANNAH YOUNG	20	18211399	.4174	950	.4325	.4322				15.58	1.1	
L2473233-05	16-DEC-24 13:33	BRYHANNAH YOUNG	21	18211399	.421	950	.4307	.4308				10.21	1.1	

Wet Chemistry Gravimetric ELN

Printed: DEC-17-24 09:30:36

WorkGroup	WG2009794	**Temp In (C)**	105	**Temp In (C)**	105	**Temp In (C)**		**Temp In (C)**		**Temp In (C)**					
Title	Solids, Total Suspended	**Temp Out (C)**	105	**Temp Out (C)**	105	**Temp Out (C)**		**Temp Out (C)**		**Temp Out (C)**					
Method	SM2540D	**Time In**	16-DEC-24 14:28	**Time In**	17-DEC-24 07:33	**Time In**		**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	17-DEC-24 07:09	**Time Out**	17-DEC-24 09:04	**Time Out**		**Time Out**		**Time Out**					
		Temp In (C)		**Time In**								**LCS Lot #**	**TrueValue**	**Units**	
												86372	223	mg/l	

Sample #	Analysis Date	Analyst	Cup ID			Sample Volume (ml)					Result mg/L	Dil	Comment
L2473290-01	16-DEC-24 13:33	BRYHANNAH YOUNG	22	18211399	.4246	750	.5036	.5038			105.33	1.3	
L2473290-02	16-DEC-24 13:33	BRYHANNAH YOUNG	23	18211399	.4182	400	.5426	.5423			310.25	2.5	
WG2009794-1	16-DEC-24 13:33	BRYHANNAH YOUNG	1	18211399	.4204	1000	.4204	.4206			0.00	1	
WG2009794-2	16-DEC-24 13:33	BRYHANNAH YOUNG	24	18211399	.4171	250	.4705	.4703			212.80	4	
WG2009794-3	16-DEC-24 13:33	BRYHANNAH YOUNG	2	18211399	.4197	300	.5443	.5443			415.33	3.3	
WG2009794-4	16-DEC-24 13:33	BRYHANNAH YOUNG	3	18211399	.4202	400	.5617	.5613			352.75	2.5	

Quality Control

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 12/16/24 13:33
Dup Sample ID	: WG2009794-3	**DUP Analysis Date**	: 12/16/24 13:33

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Suspended	400	420	5	32

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 12/16/24 13:33
Dup Sample ID	: WG2009794-4	**DUP Analysis Date**	: 12/16/24 13:33

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Suspended	310	350	12	32

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix**	: WATER
Lab Sample ID	: L2473162-06	**Analysis Date**	: 12/17/24 17:46
Dup Sample ID	: WG2010401-3	**DUP Analysis Date**	: 12/17/24 17:46

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Suspended	5.1	5.8	13	32

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 12/17/24 17:46
Dup Sample ID	: WG2010401-4	**DUP Analysis Date**	: 12/17/24 17:46

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Suspended	41	50.	20	32

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2009794-2	**LCS Analysis Date**	: 12/16/24 13:33
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
Solids, Total Suspended	223.	210.	95.					80-120	32

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2010401-2	**LCS Analysis Date**	: 12/17/24 17:46
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
Solids, Total Suspended	223.	200.	90.					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**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-01	**Date Collected**	:	12/12/24 08:25
Client ID	:	MW-11S	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 22:49
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	44,300.0	**Analyst**	:	CVN,
Lab File ID	:	WG2010321-345-469	**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	0.034	0.050	0.013	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-02	**Date Collected**	:	12/12/24 08:42
Client ID	:	MW-11D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 15:58
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	44,300.0	**Analyst**	:	CVN,
Lab File ID	:	WG2010321-345-469	**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**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-03	**Date Collected**	:	12/12/24 09:50
Client ID	:	MW-1SR	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 16:10
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	44,300.0	**Analyst**	:	CVN,
Lab File ID	:	WG2010321-345-469	**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**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-04	**Date Collected**	:	12/12/24 10:10
Client ID	:	MW-1DR2	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 16:22
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	44,300.0	**Analyst**	:	CVN,
Lab File ID	:	WG2010321-345-469	**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	0.063	0.050	0.013	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-05	**Date Collected**	:	12/12/24 11:40
Client ID	:	MP-1	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 16:58
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	44,300.0	**Analyst**	:	CVN,
Lab File ID	:	WG2010321-345-469	**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	0.042	0.050	0.013	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-06	**Date Collected**	:	12/12/24 12:05
Client ID	:	MP-1D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 17:35
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	44,300.0	**Analyst**	:	CVN,
Lab File ID	:	WG2010321-345-469	**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	0.060	0.050	0.013	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-07	**Date Collected**	:	12/12/24 12:00
Client ID	:	DUP_121224	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 17:47
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	44,300.0	**Analyst**	:	CVN,
Lab File ID	:	WG2010321-345-469	**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	0.060	0.050	0.013	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473162-08	**Date Collected**	: 12/12/24 14:00
Client ID	: MW-13S	**Date Received**	: 12/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/17/24 17:59
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG2010321-345-469	**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**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-09	**Date Collected**	:	12/12/24 14:05
Client ID	:	MW-13D	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 18:11
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	44,300.0	**Analyst**	:	CVN,
Lab File ID	:	WG2010321-345-469	**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	0.040	0.050	0.013	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473162
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473162-10	**Date Collected**	:	12/12/24 13:30
Client ID	:	EB_121224	**Date Received**	:	12/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 18:23
Sample Matrix	:	Equipment Blank	**Dilution Factor**	:	1
Analytical Method	:	44,300.0	**Analyst**	:	CVN,
Lab File ID	:	WG2010321-345-469	**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**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010321-1	**Date Collected**	: NA
Client ID	: WG2010321-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/17/24 14:47
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG2010321-345-469	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

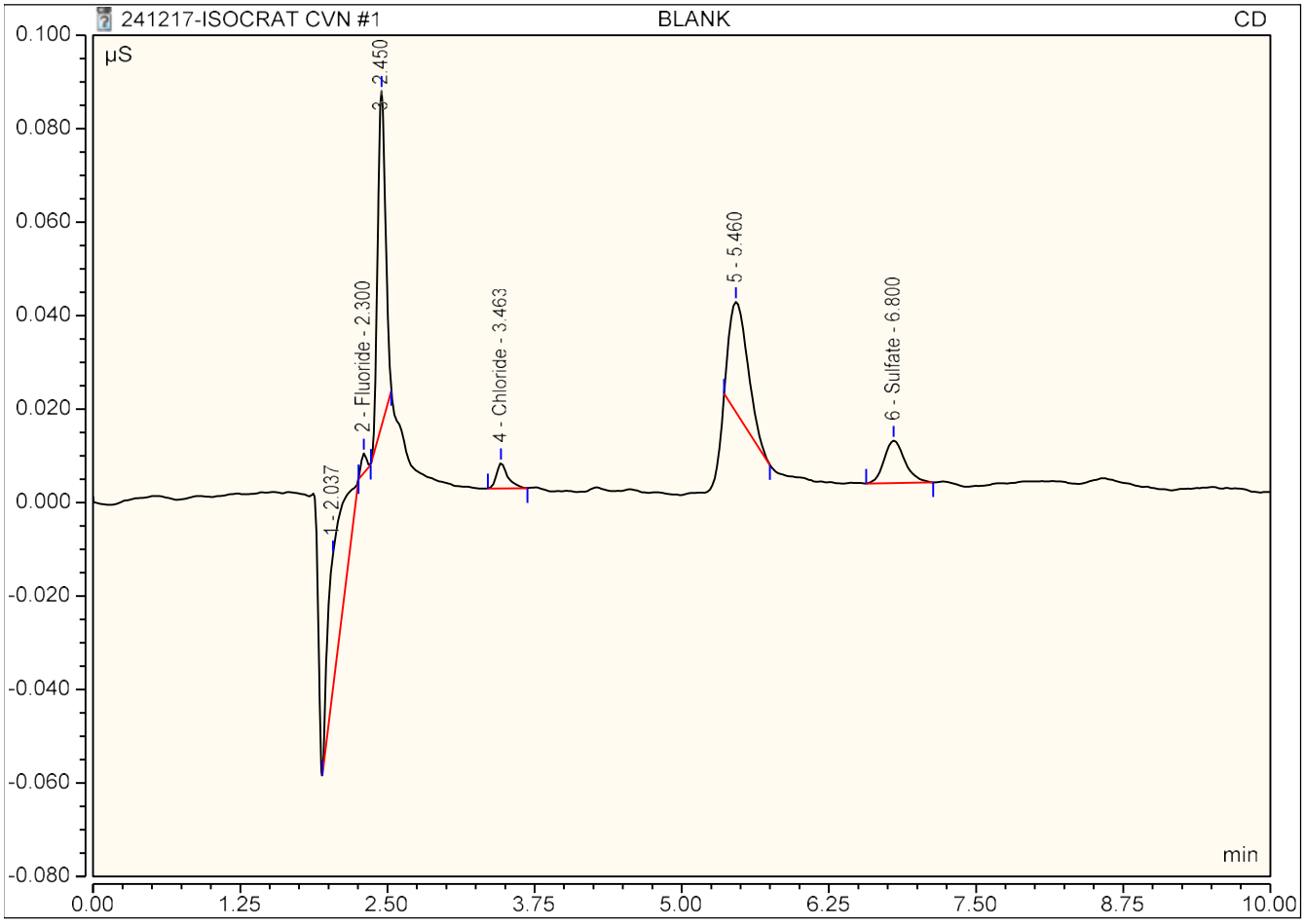
		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

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:	**11-Dec-2024 / 12:38**	*Run Time:*	**10.00**

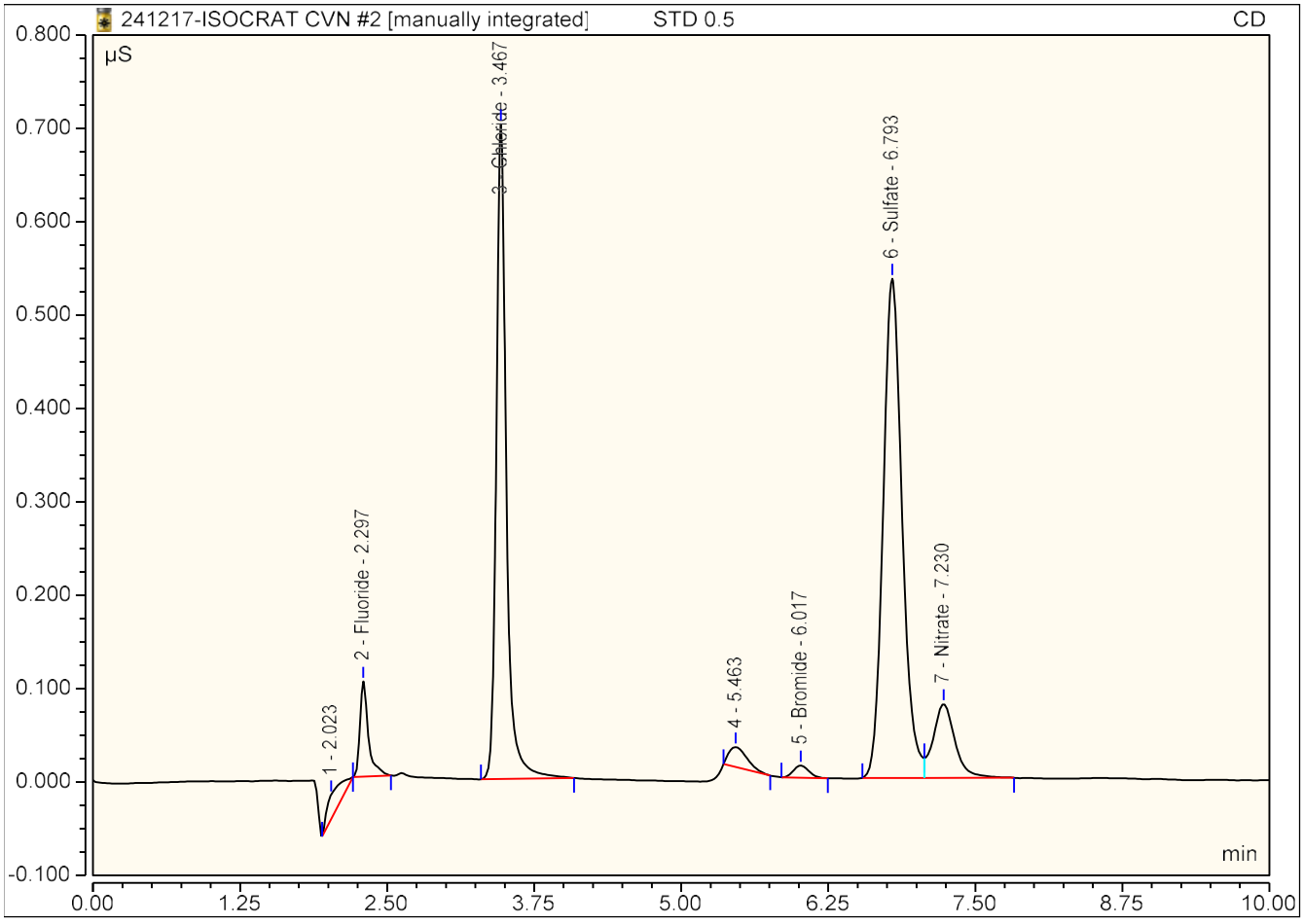
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.000	0.004	0.0220
4	3.46	**Chloride**	BMB	0.001	0.005	0.1192
6	6.80	**Sulfate**	BMB	0.002	0.009	0.2070
TOTAL:				0.00	0.02	0.35



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:	**11-Dec-2024 / 12:50**	*Run Time:*	**10.00**

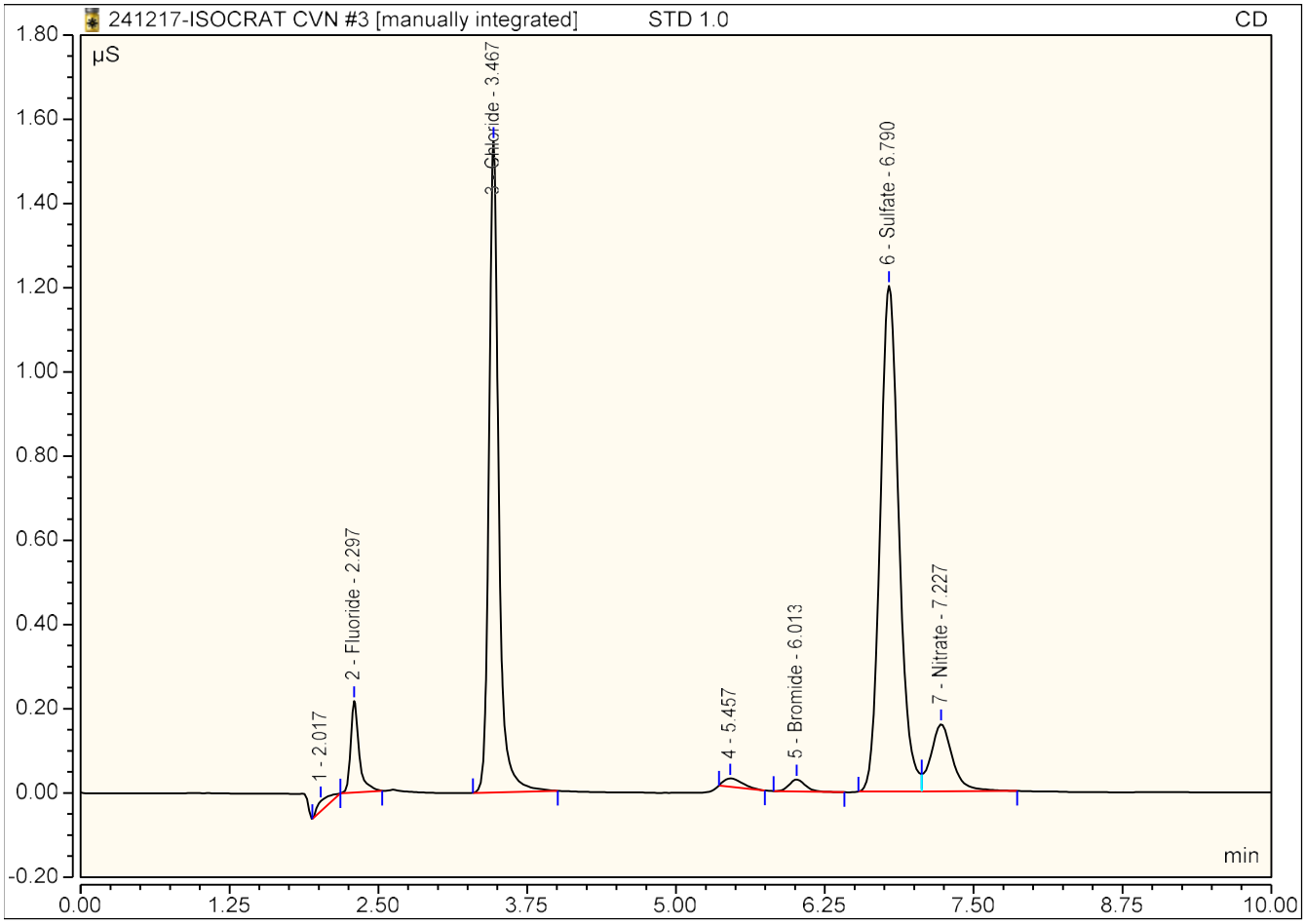
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.009	0.102	0.0378
3	3.47	**Chloride**	BMB*	0.070	0.701	0.3031
5	6.02	**Bromide**	BMB	0.002	0.013	0.0465
6	6.79	**Sulfate**	BM *	0.100	0.535	0.5516
7	7.23	**Nitrate**	MB*	0.017	0.079	0.0441
TOTAL:				0.20	1.43	0.98



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:	**11-Dec-2024 / 13:02**	*Run Time:*	**10.00**

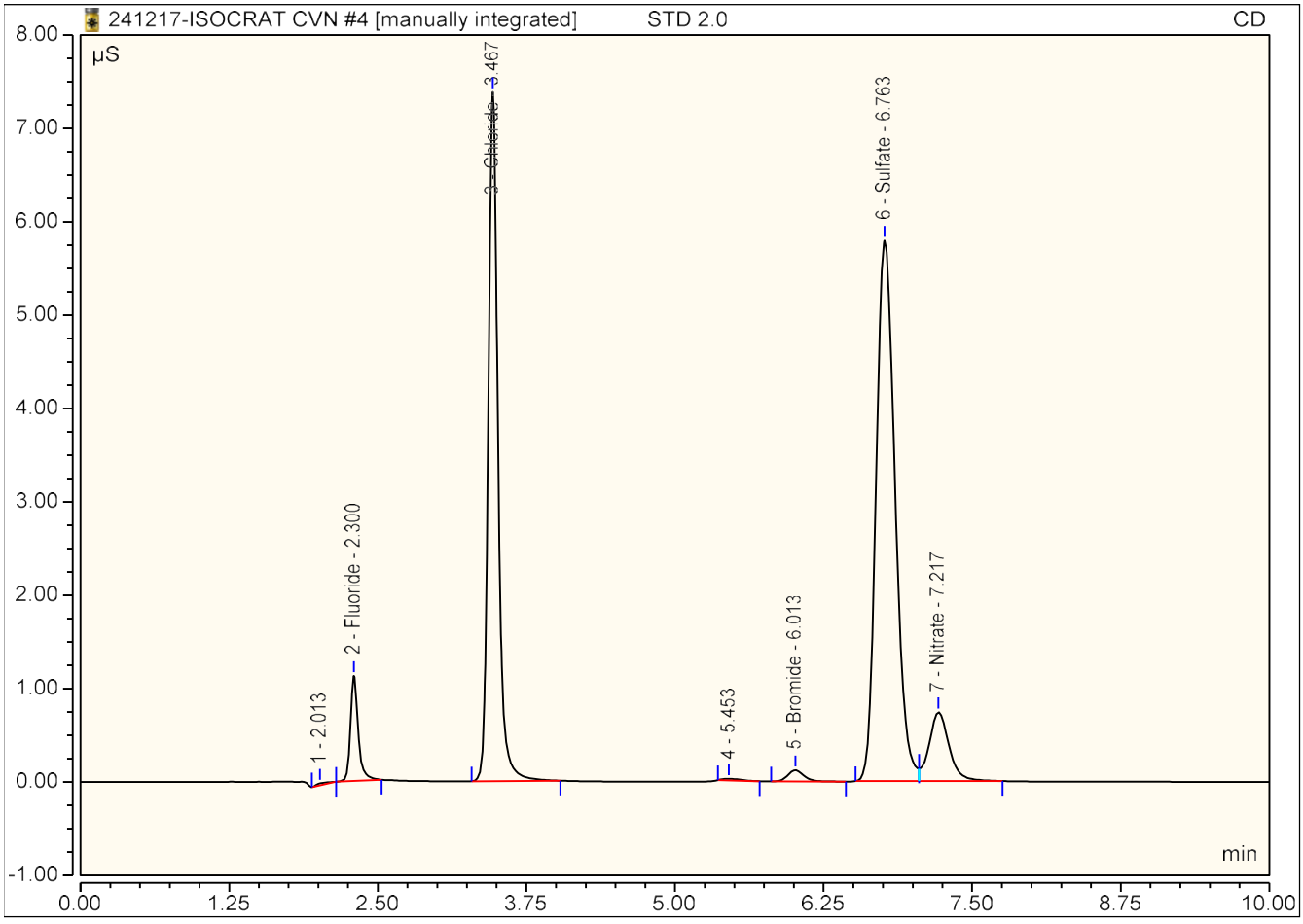
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.018	0.217	0.0550
3	3.47	**Chloride**	BMB*	0.148	1.545	0.5119
5	6.01	**Bromide**	BMB	0.004	0.028	0.0677
6	6.79	**Sulfate**	BM *	0.218	1.201	0.9678
7	7.23	**Nitrate**	MB*	0.034	0.159	0.0627
TOTAL:				0.42	3.15	1.67



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:	**11-Dec-2024 / 13:14**	*Run Time:*	**10.00**

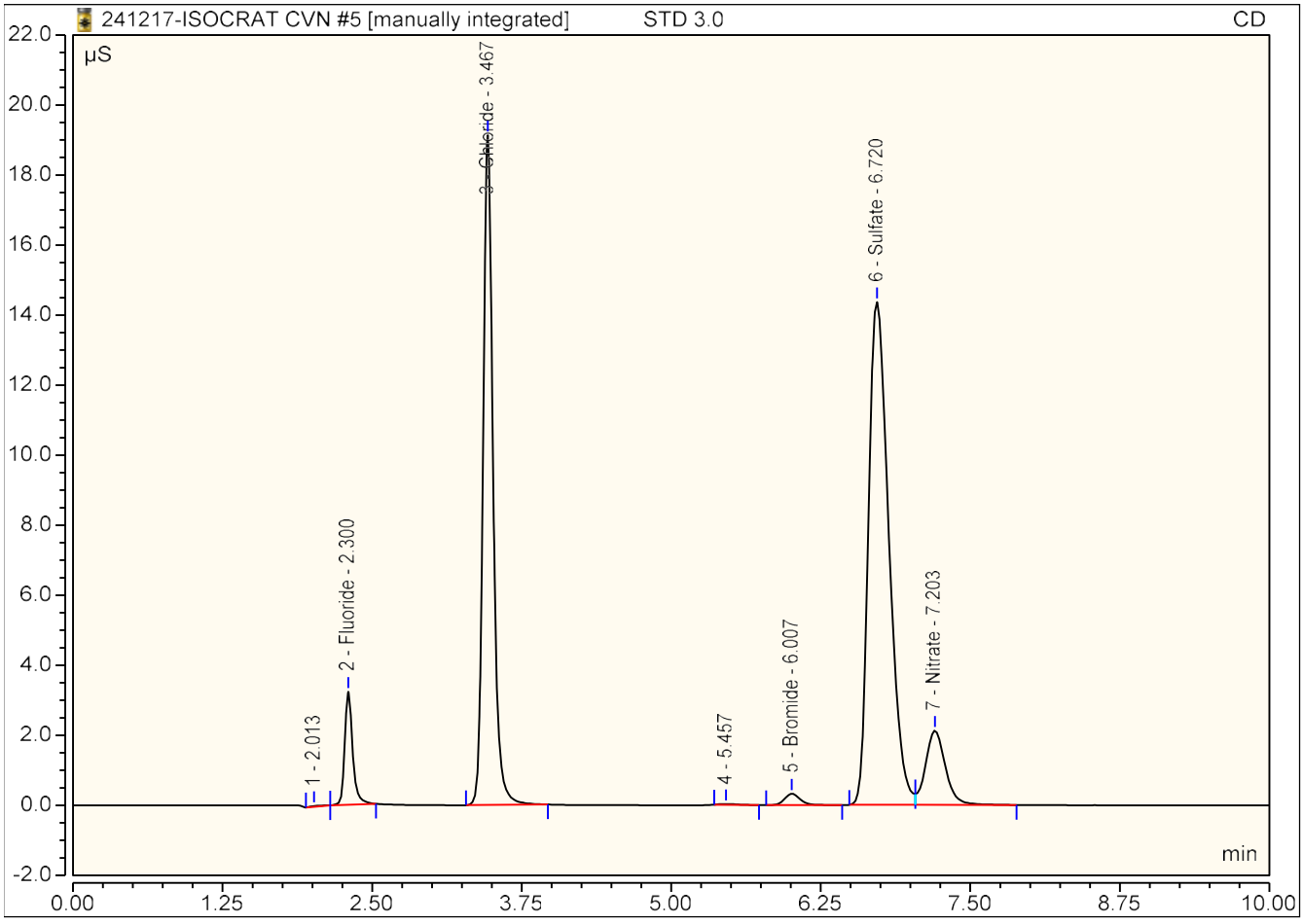
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.086	1.128	0.1840
3	3.47	**Chloride**	BMB*	0.706	7.380	1.9973
5	6.01	**Bromide**	BMB	0.019	0.121	0.1922
6	6.76	**Sulfate**	BM *	1.068	5.791	3.9537
7	7.22	**Nitrate**	MB*	0.145	0.739	0.1855
TOTAL:				2.02	15.16	6.51



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:	**11-Dec-2024 / 13:26**	*Run Time:*	**10.00**

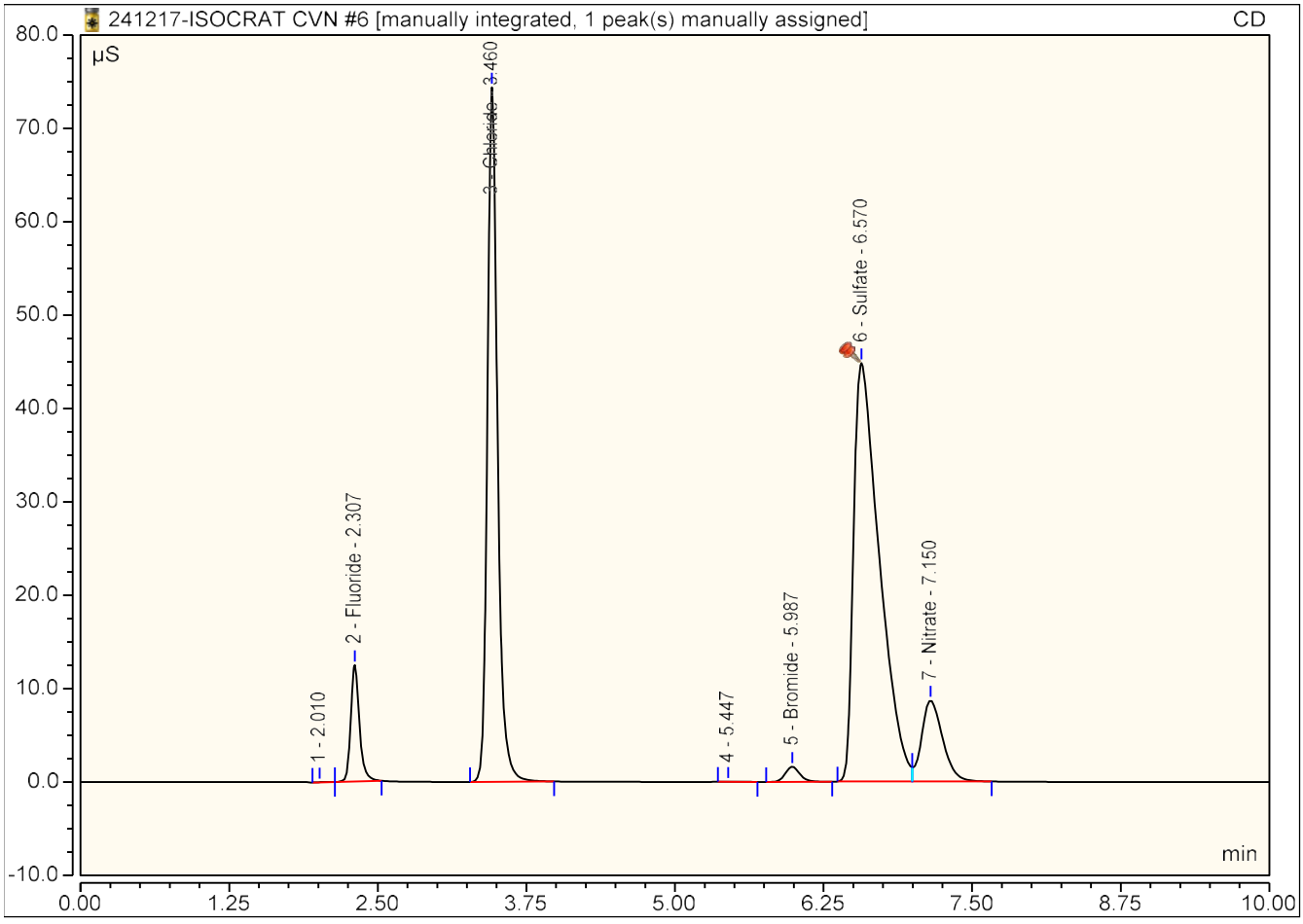
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.246	3.225	0.4887
3	3.47	**Chloride**	BMB*	1.850	19.128	5.0437
5	6.01	**Bromide**	BMB	0.050	0.327	0.4581
6	6.72	**Sulfate**	BM *	2.821	14.357	10.1180
7	7.20	**Nitrate**	MB*	0.406	2.120	0.4758
TOTAL:				5.37	39.16	16.58



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:	**11-Dec-2024 / 13:39**	*Run Time:*	**10.00**

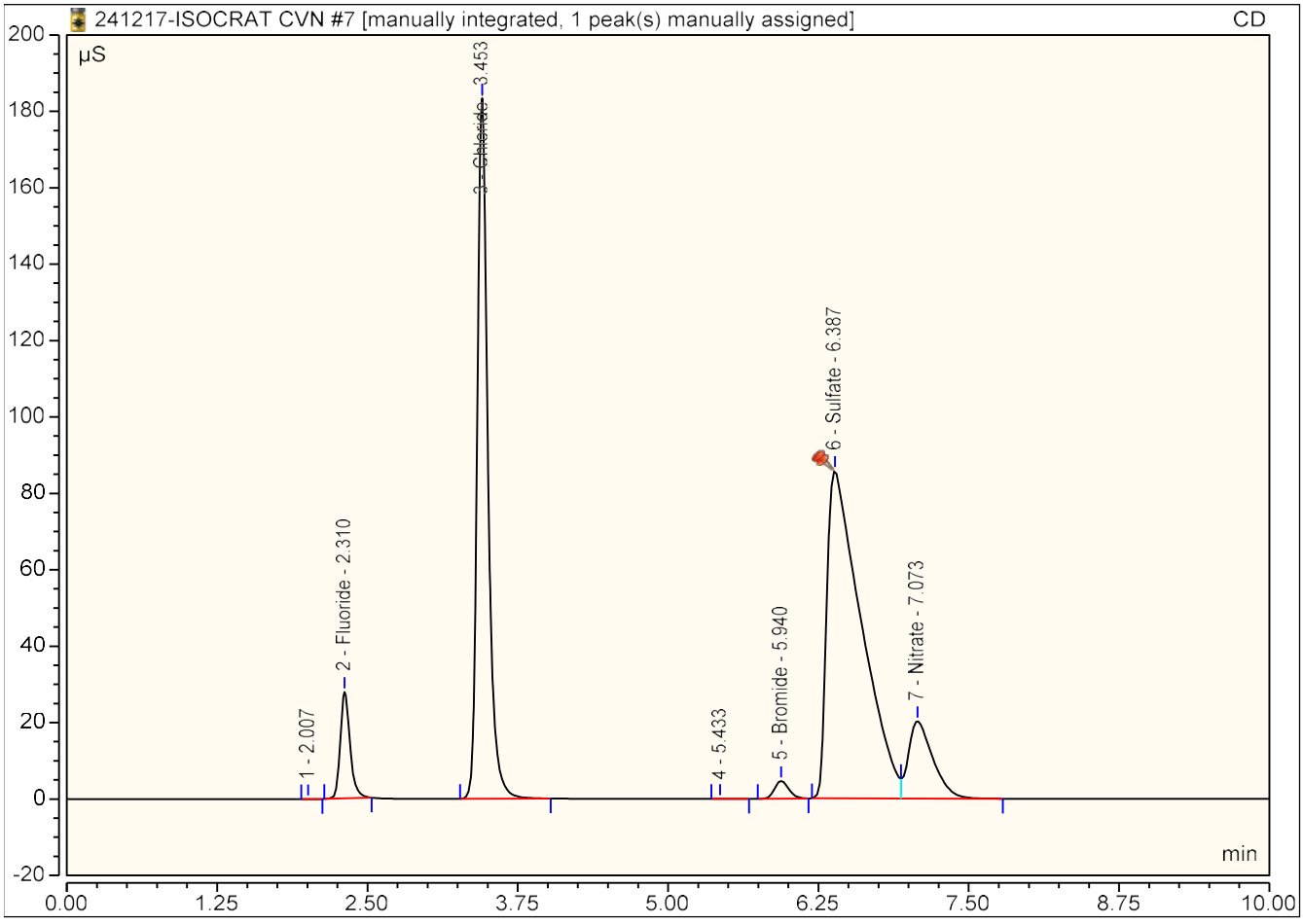
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	1.049	12.466	2.0130
3	3.46	**Chloride**	BMB*	7.404	74.364	19.8311
5	5.99	**Bromide**	BMB	0.232	1.623	2.0106
6	6.57	**Sulfate**	BM *^	11.282	44.815	39.8646
7	7.15	**Nitrate**	MB*	1.787	8.674	2.0070
TOTAL:				21.75	141.94	65.73



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:	**11-Dec-2024 / 13:51**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	2.620	27.875	4.9964
3	3.45	**Chloride**	BMB*	18.760	183.384	50.0629
5	5.94	**Bromide**	BMB	0.642	4.628	5.5192
6	6.39	**Sulfate**	BM *^	28.400	85.718	100.0443
7	7.07	**Nitrate**	MB*	4.780	20.222	5.3254
TOTAL:				55.20	321.83	165.95



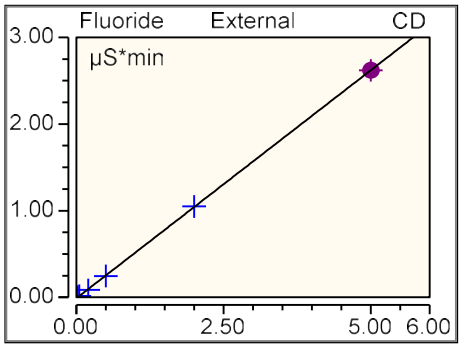
Calibration Batch Report

Sequence:	**241217-ISOCRAT CVN**	*Injection Volume:*	**25.00**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**11-Dec-2024 / 13:51**	*Run Time:*	**10**

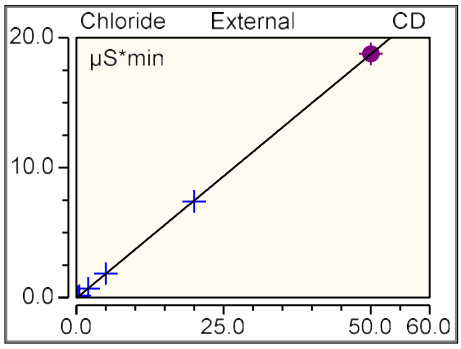
Calibration Summary

Peak Name	Eval.Type	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff.Det. %
Fluoride	Area	in, WithOffse	6.000	-0.011	0.527	0.000	99.9961
Chloride	Area	in, WithOffse	6.000	-0.044	0.376	0.000	99.9981
Bromide	Area	in, WithOffse	5.000	-0.003	0.117	0.000	99.9018
Sulfate	Area	in, WithOffse	6.000	-0.057	0.284	0.000	99.9995
Nitrate	Area	in, WithOffse	5.000	-0.023	0.902	0.000	99.9502
		AVERAGE:		-0.0278	0.4411	0.0000	99.9691

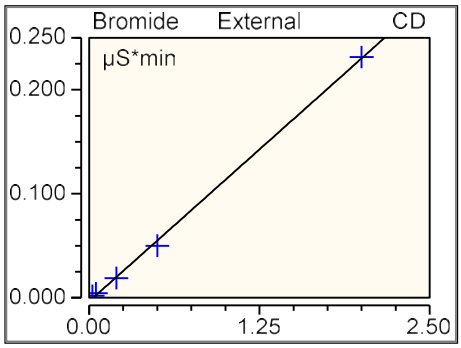
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Fluoride	Fluoride	Fluoride	Fluoride
STD 0.5	2.297	0.0085	0.102	0.038
STD 1.0	2.297	0.0176	0.217	0.055
STD 2.0	2.300	0.0855	1.128	0.184
STD 3.0	2.300	0.2460	3.225	0.489
STD 4.0	2.307	1.0487	12.466	2.013
STD 5.0	2.310	2.6198	27.875	4.996
Average	2.302			
Rel. Std. Dev.	0.238 %			



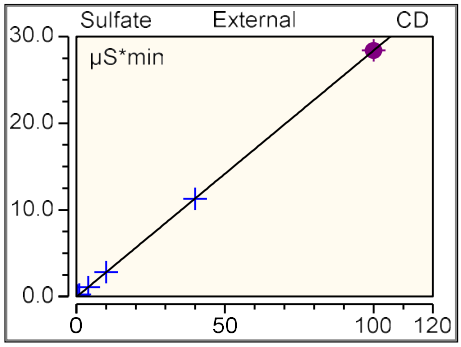
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Chloride	Chloride	Chloride	Chloride
STD 0.5	3.467	0.0696	0.701	0.303
STD 1.0	3.467	0.1481	1.545	0.512
STD 2.0	3.467	0.7060	7.380	1.997
STD 3.0	3.467	1.8503	19.128	5.044
STD 4.0	3.460	7.4045	74.364	19.831
STD 5.0	3.453	18.7597	183.384	50.063
Average	3.463			
Rel. Std. Dev.	0.161 %			



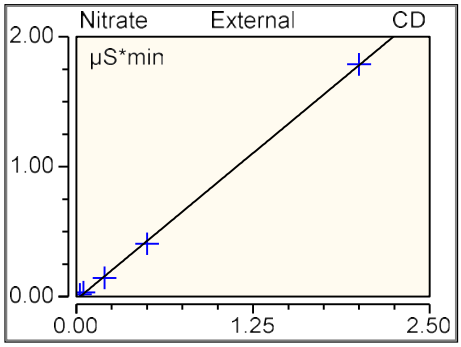
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Bromide	Bromide	Bromide	Bromide
STD 0.5	6.017	0.0020	0.013	0.046
STD 1.0	6.013	0.0045	0.028	0.068
STD 2.0	6.013	0.0190	0.121	0.192
STD 3.0	6.007	0.0501	0.327	0.458
STD 4.0	5.987	0.2315	1.623	2.011
STD 5.0	5.940	0.6417	4.628	5.519
Average	5.996			
Rel. Std. Dev.	0.493 %			



Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Sulfate	Sulfate	Sulfate	Sulfate
STD 0.5	6.793	0.0999	0.535	0.552
STD 1.0	6.790	0.2183	1.201	0.968
STD 2.0	6.763	1.0676	5.791	3.954
STD 3.0	6.720	2.8210	14.357	10.118
STD 4.0	6.570	11.2822	44.815	39.865
STD 5.0	6.387	28.3999	85.718	100.044
Average	6.671			
Rel. Std. Dev.	2.427 %			



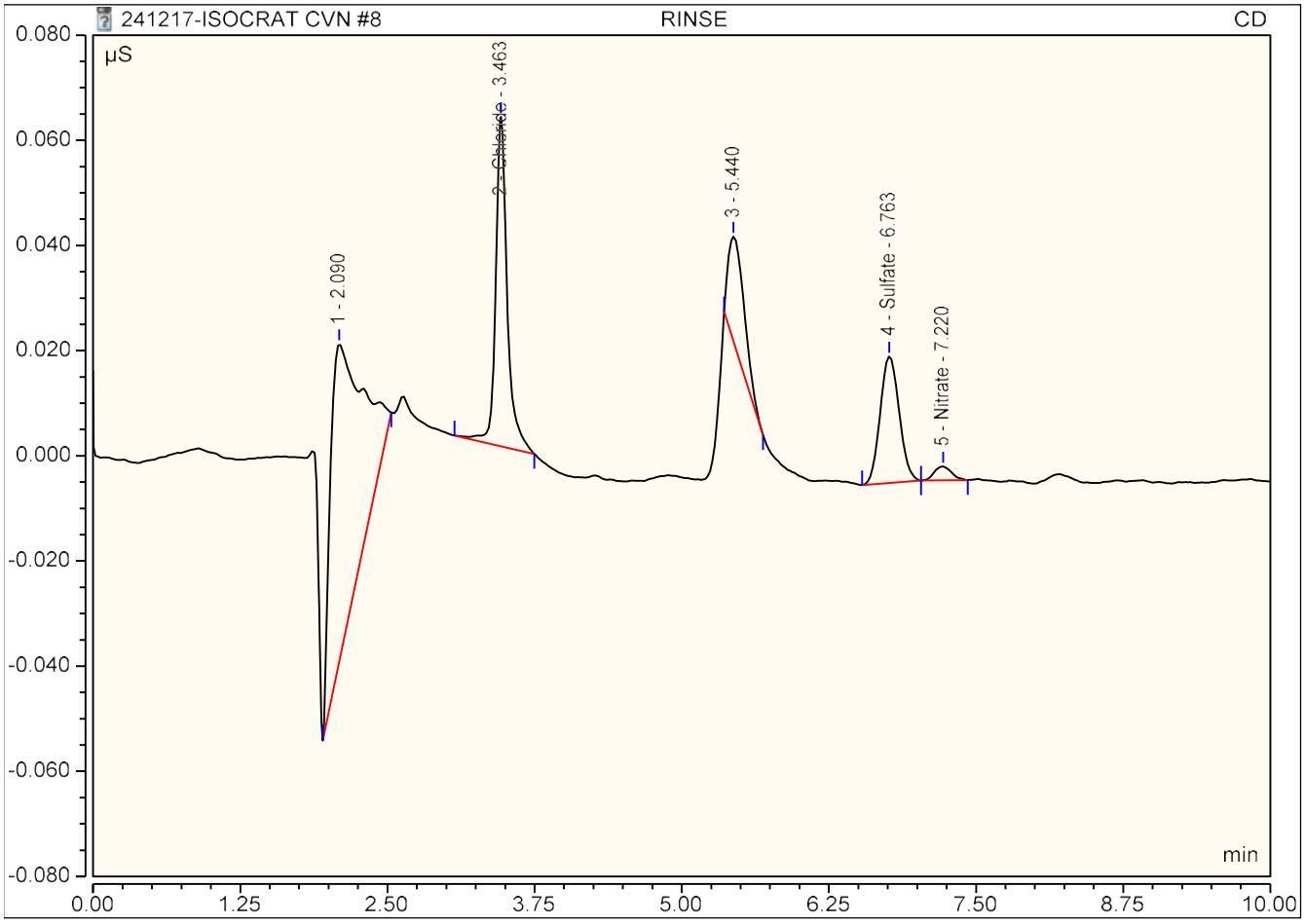
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Nitrate	Nitrate	Nitrate	Nitrate
STD 0.5	7.230	0.0170	0.079	0.044
STD 1.0	7.227	0.0338	0.159	0.063
STD 2.0	7.217	0.1446	0.739	0.186
STD 3.0	7.203	0.4063	2.120	0.476
STD 4.0	7.150	1.7872	8.674	2.007
STD 5.0	7.073	4.7799	20.222	5.325
Average	7.183			
Rel. Std. Dev.	0.853 %			



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:	**17-Dec-2024 / 13:47**	*Run Time:*	**10.00**

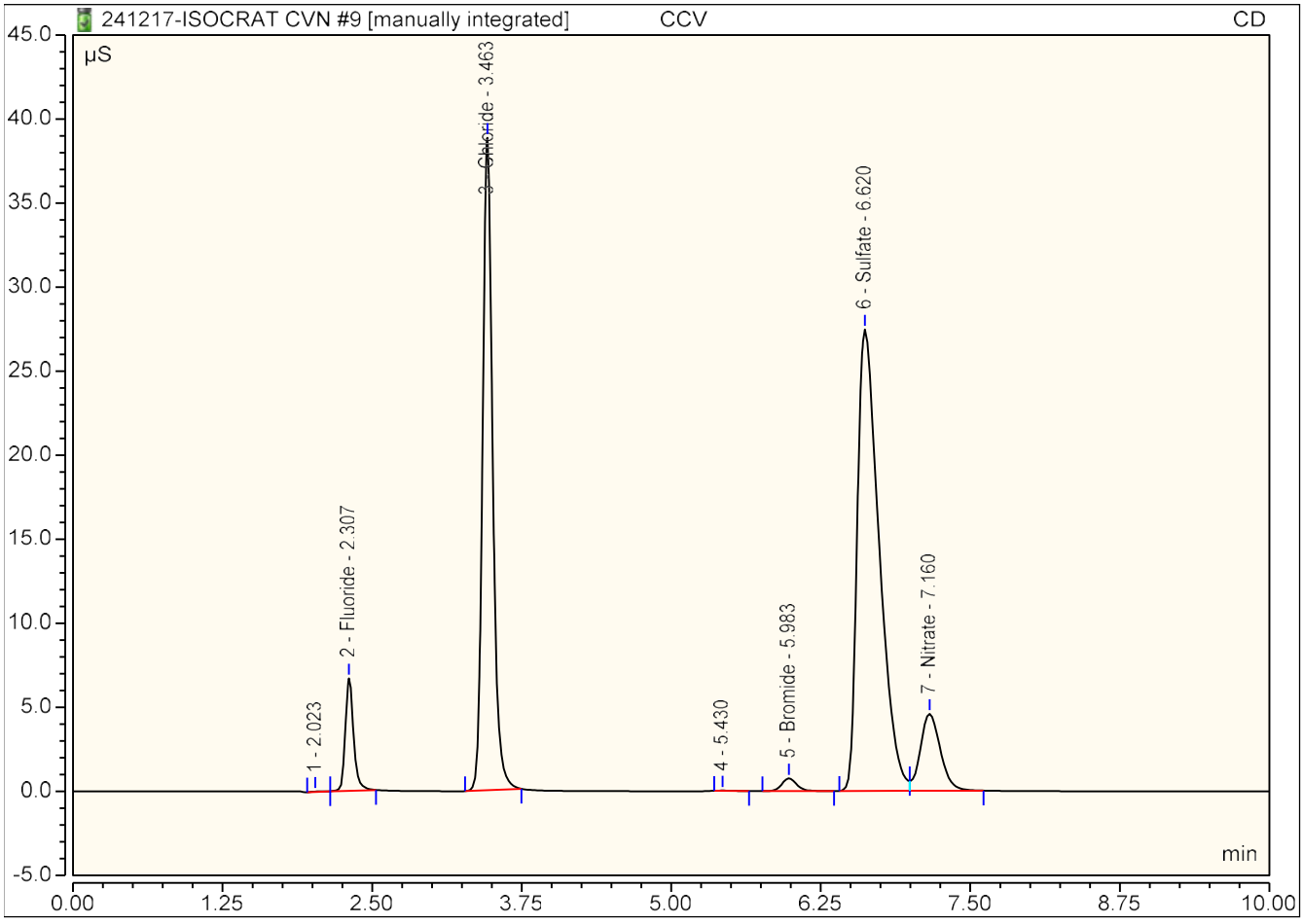
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.46	**Chloride**	BMB	0.007	0.063	0.1364
4	6.76	**Sulfate**	BMB	0.005	0.024	0.2162
5	7.22	**Nitrate**	BMB	0.000	0.003	0.0257
TOTAL:				0.01	0.09	0.38



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:	**17-Dec-2024 / 13:59**	*Run Time:*	**10.00**

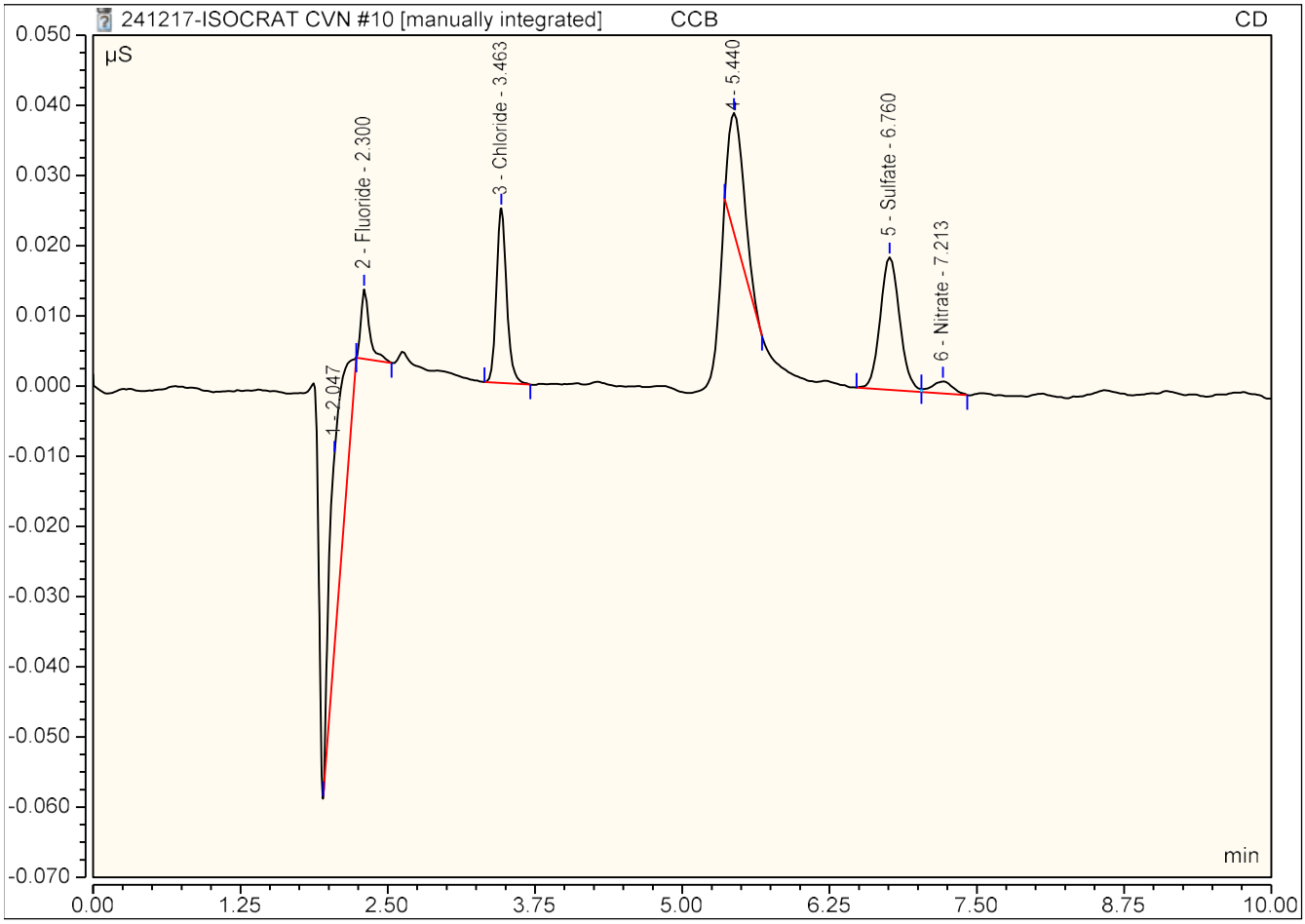
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.531	6.691	1.0298
3	3.46	**Chloride**	BMB	3.810	38.824	10.2603
5	5.98	**Bromide**	BMB	0.111	0.760	0.9805
6	6.62	**Sulfate**	BM *	5.817	27.455	20.6523
7	7.16	**Nitrate**	MB*	0.884	4.570	1.0059
TOTAL:				11.15	78.30	33.93



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:	**17-Dec-2024 / 14:11**	*Run Time:*	**10.00**

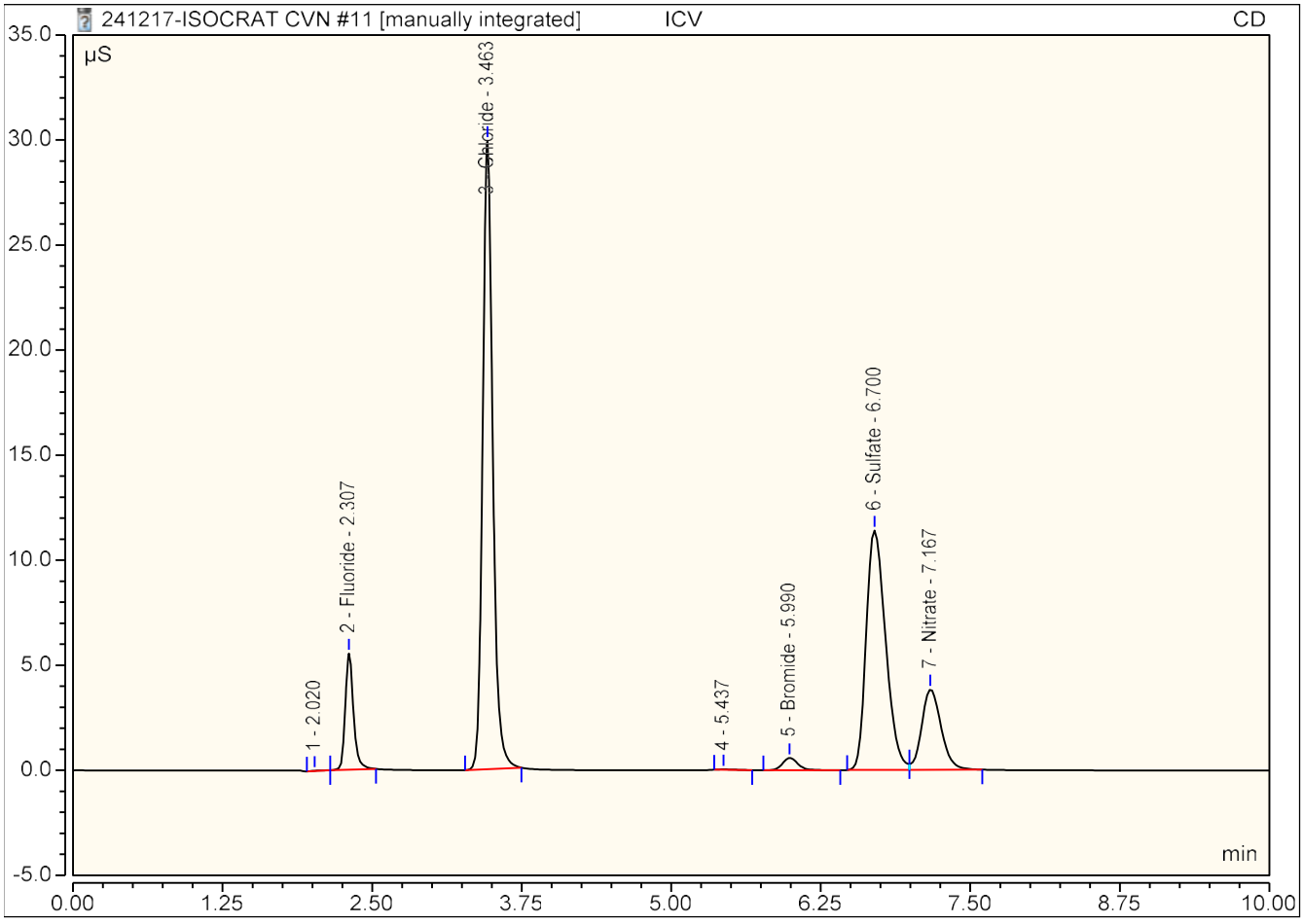
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.001	0.010	0.0232
3	3.46	**Chloride**	BMB	0.002	0.025	0.1243
5	6.76	**Sulfate**	BM *	0.004	0.019	0.2131
6	7.21	**Nitrate**	MB*	0.000	0.002	0.0256
TOTAL:				0.01	0.06	0.39



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:	**17-Dec-2024 / 14:23**	*Run Time:*	**10.00**

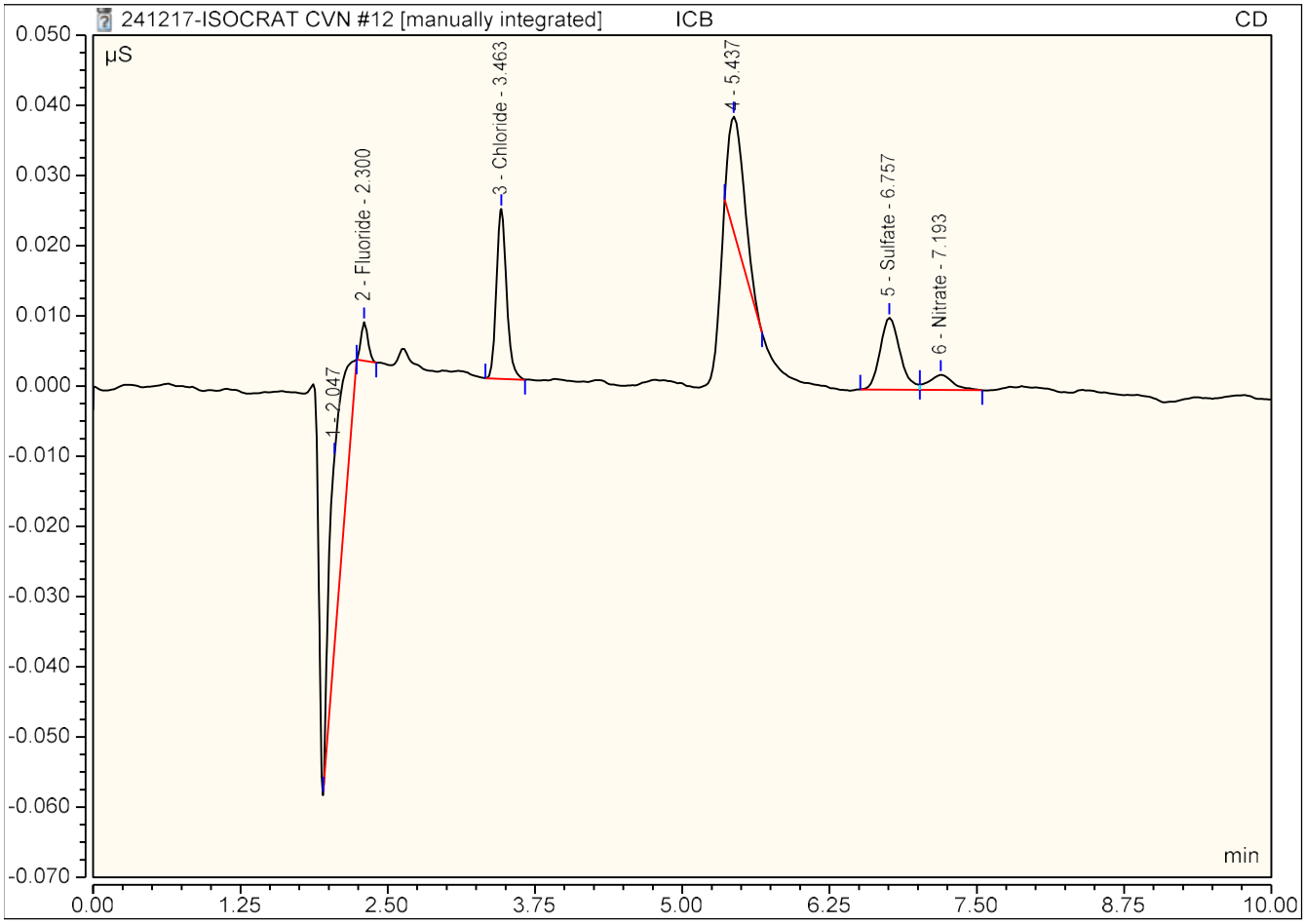
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.437	5.532	0.8515
3	3.46	**Chloride**	BMB	2.937	29.903	7.9365
5	5.99	**Bromide**	BMB	0.088	0.583	0.7798
6	6.70	**Sulfate**	BM *	2.140	11.391	7.7254
7	7.17	**Nitrate**	MB*	0.719	3.825	0.8225
TOTAL:				6.32	51.23	18.12



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:	**17-Dec-2024 / 14:35**	*Run Time:*	**10.00**

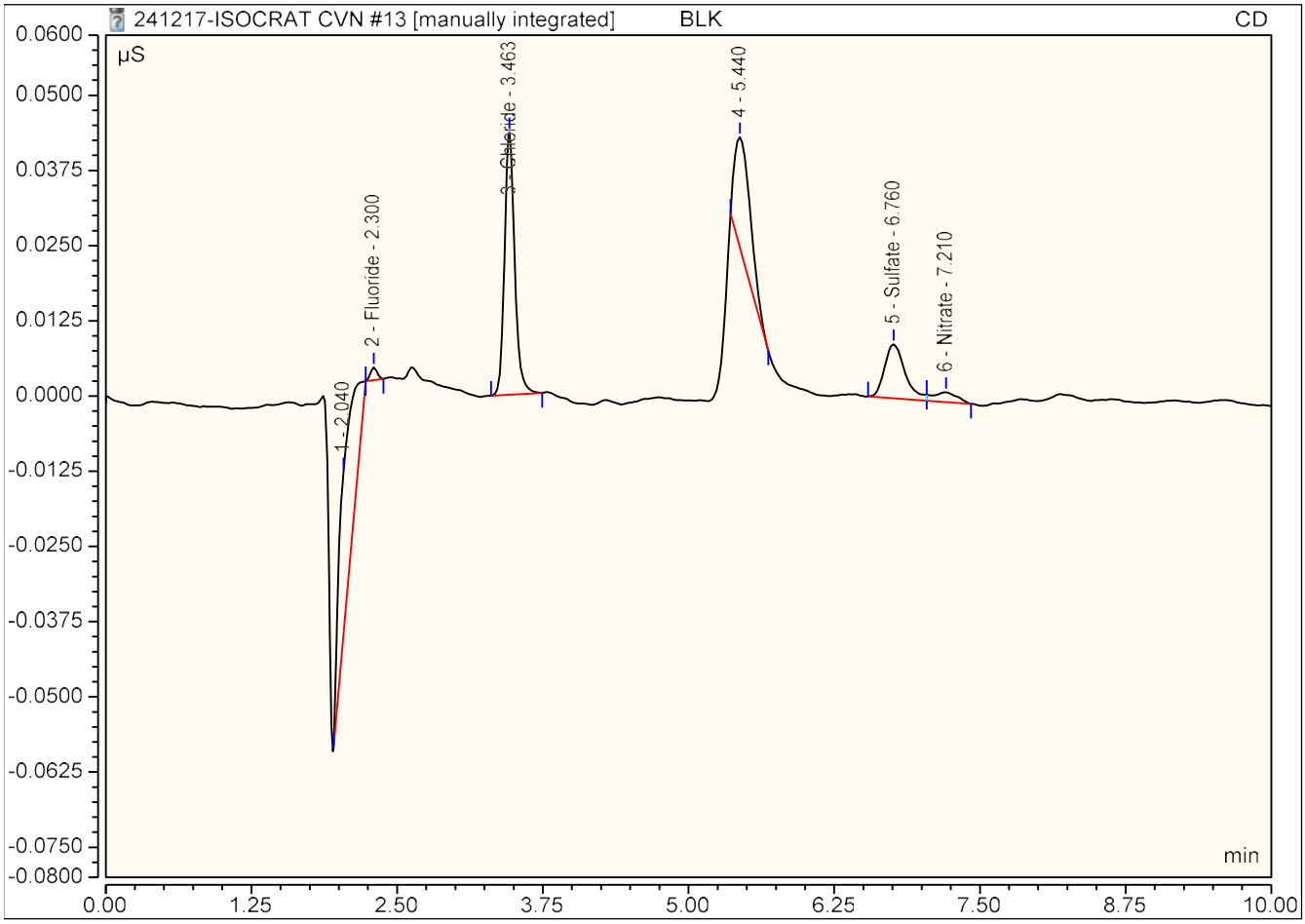
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.000	0.006	0.0223
3	3.46	**Chloride**	BMB	0.002	0.024	0.1240
5	6.76	**Sulfate**	BM *	0.002	0.010	0.2075
6	7.19	**Nitrate**	MB*	0.001	0.002	0.0258
TOTAL:				0.01	0.04	0.38



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:	**17-Dec-2024 / 14:47**	*Run Time:*	**10.00**

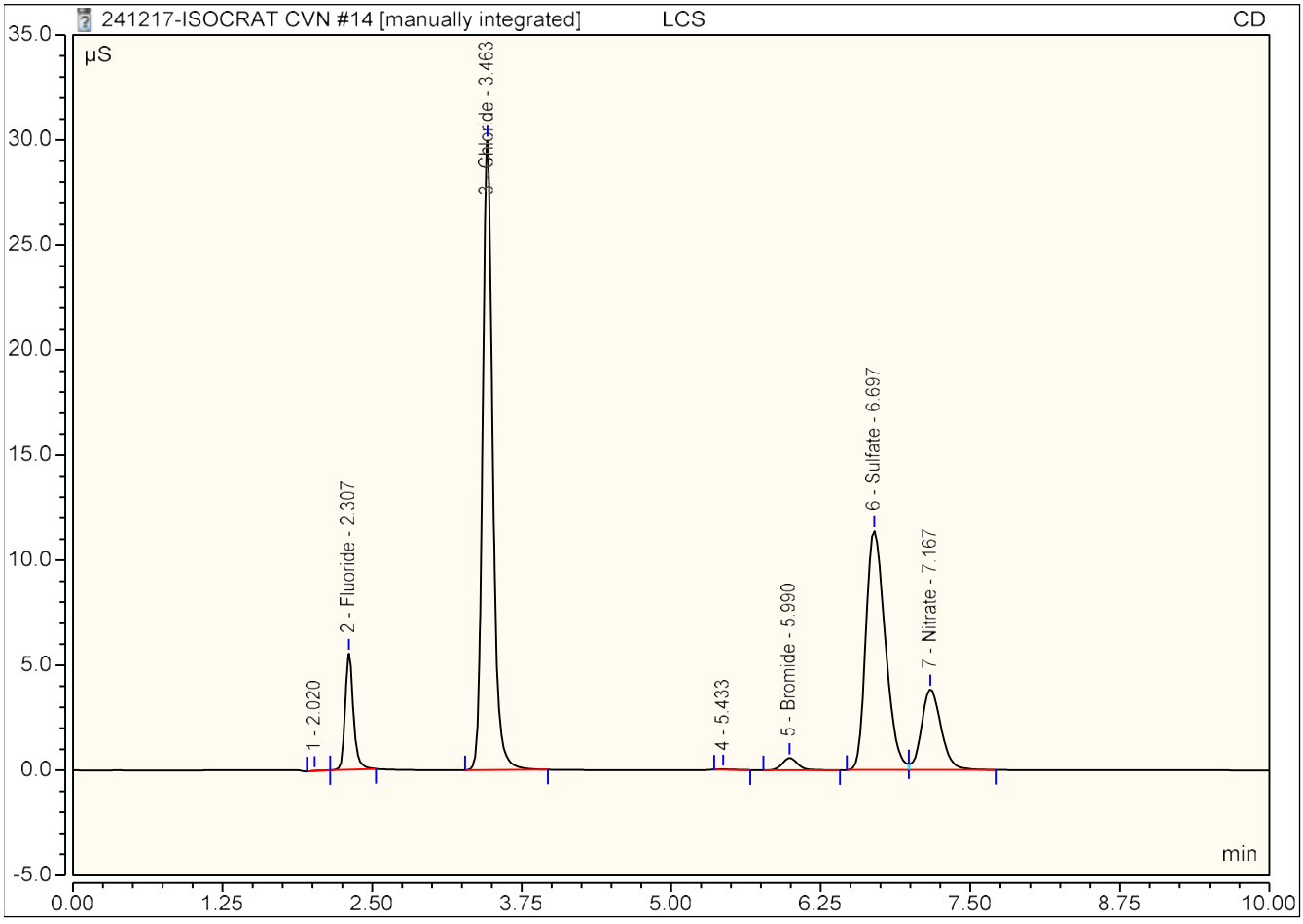
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.000	0.002	0.0219
3	3.46	**Chloride**	BMB	0.004	0.044	0.1293
5	6.76	**Sulfate**	BM *	0.002	0.009	0.2069
6	7.21	**Nitrate**	MB*	0.000	0.002	0.0257
TOTAL:				0.01	0.06	0.38



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:	**17-Dec-2024 / 14:59**	*Run Time:*	**10.00**

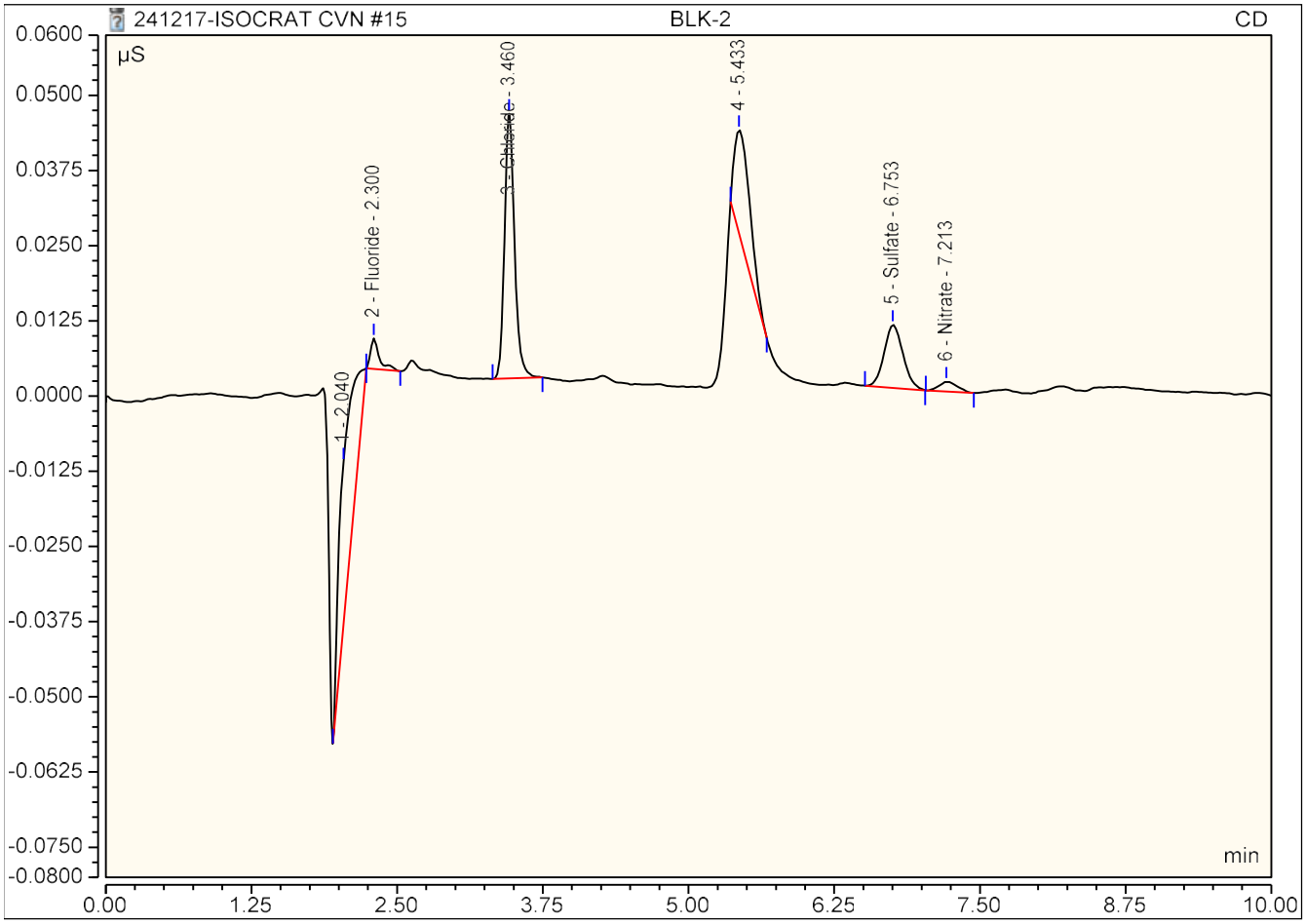
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.438	5.531	0.8533
3	3.46	**Chloride**	BMB*	2.971	29.977	8.0284
5	5.99	**Bromide**	BMB	0.087	0.584	0.7781
6	6.70	**Sulfate**	BM *	2.141	11.385	7.7281
7	7.17	**Nitrate**	MB*	0.726	3.839	0.8305
TOTAL:				6.36	51.32	18.22



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:	**17-Dec-2024 / 15:11**	*Run Time:*	**10.00**

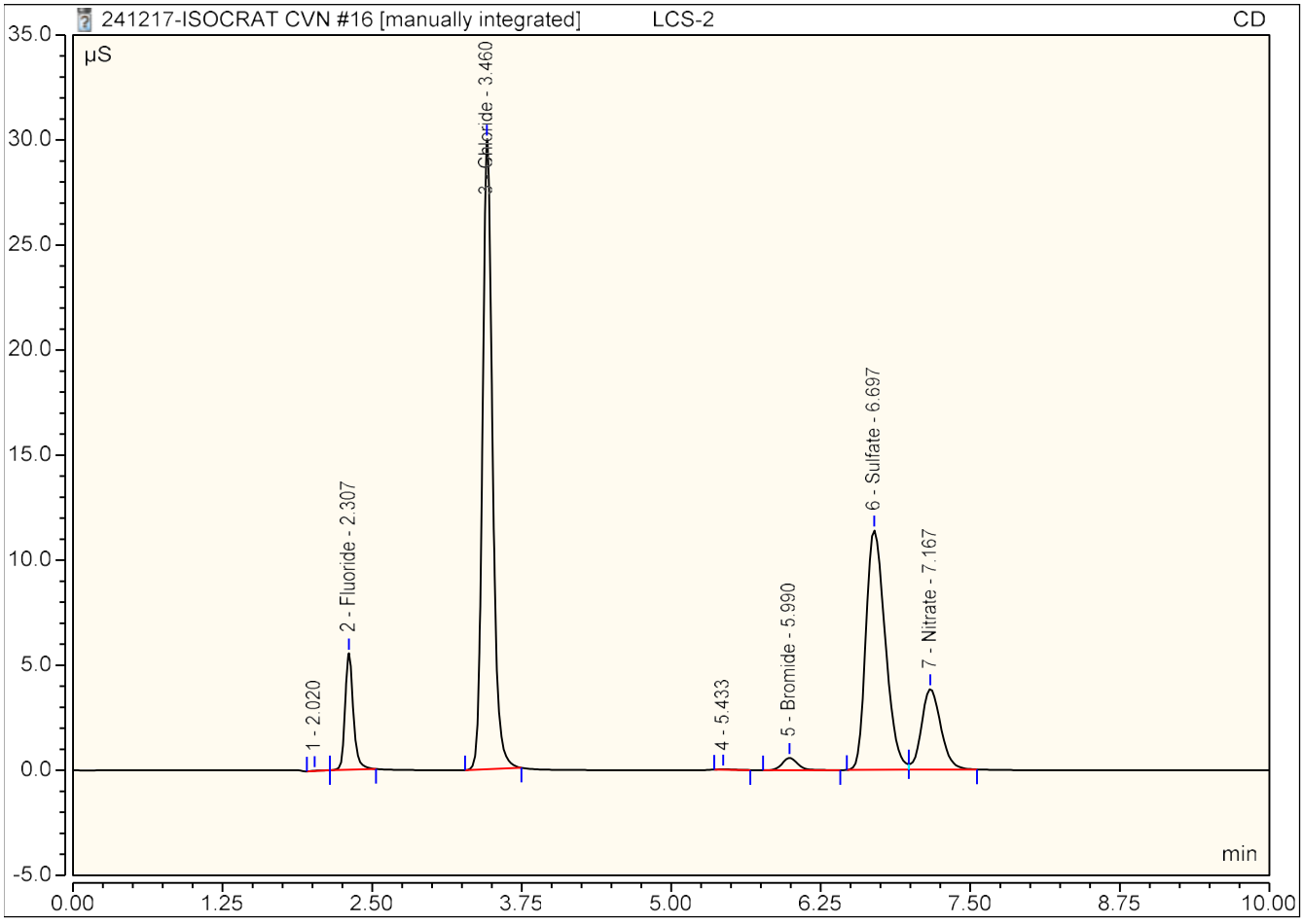
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.000	0.005	0.0225
3	3.46	**Chloride**	BMB	0.004	0.044	0.1292
5	6.75	**Sulfate**	BMB	0.002	0.010	0.2074
6	7.21	**Nitrate**	BMB	0.000	0.002	0.0256
TOTAL:				0.01	0.06	0.38



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:	**17-Dec-2024 / 15:23**	*Run Time:*	**10.00**

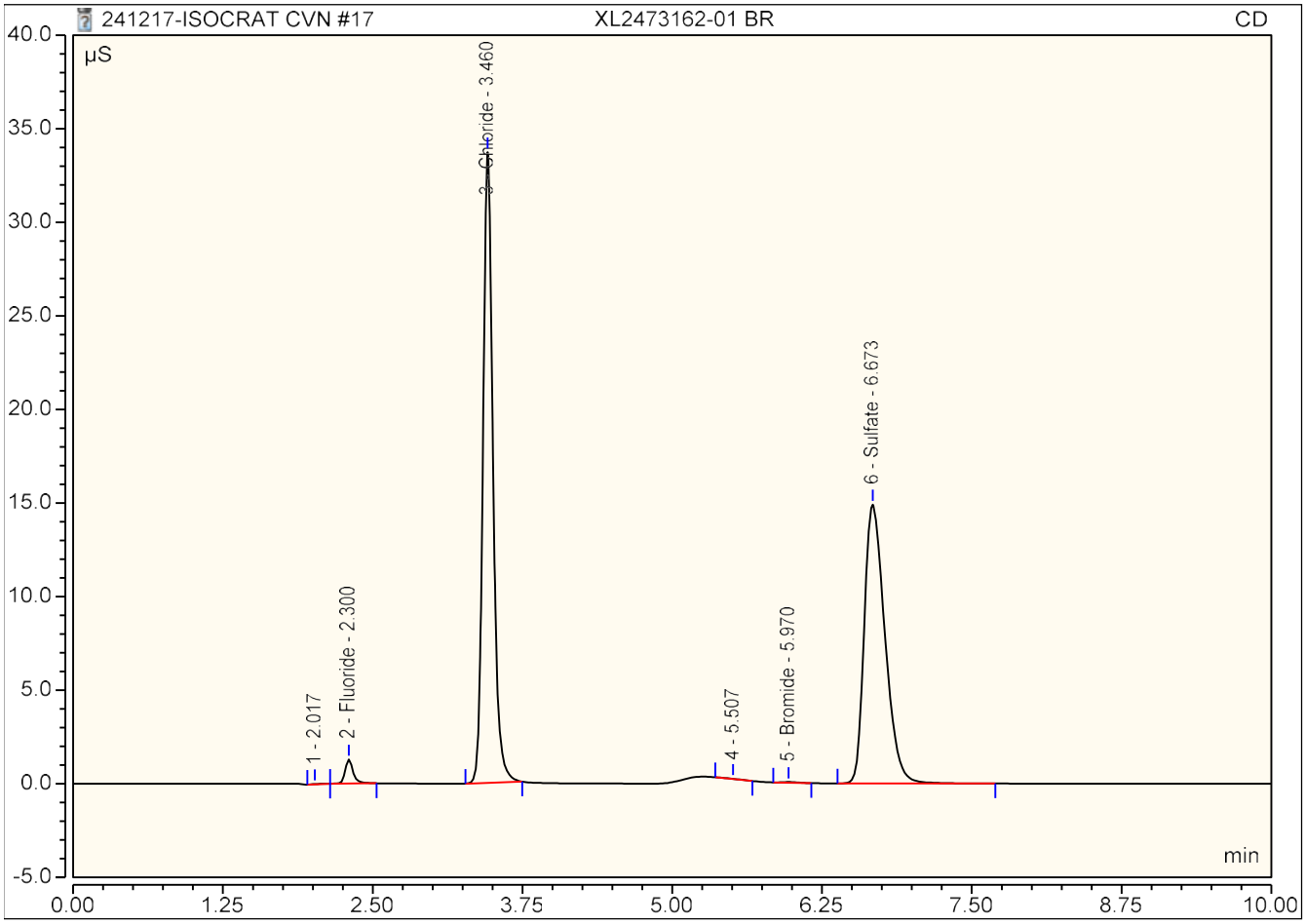
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.439	5.543	0.8555
3	3.46	**Chloride**	BMB	2.940	29.986	7.9437
5	5.99	**Bromide**	BMB	0.088	0.587	0.7817
6	6.70	**Sulfate**	BM *	2.140	11.403	7.7228
7	7.17	**Nitrate**	MB*	0.716	3.838	0.8194
TOTAL:				6.32	51.36	18.12



Peak Integration Report

Sample Name:	**XL2473162-01 BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 15:36**	*Run Time:*	**10.00**

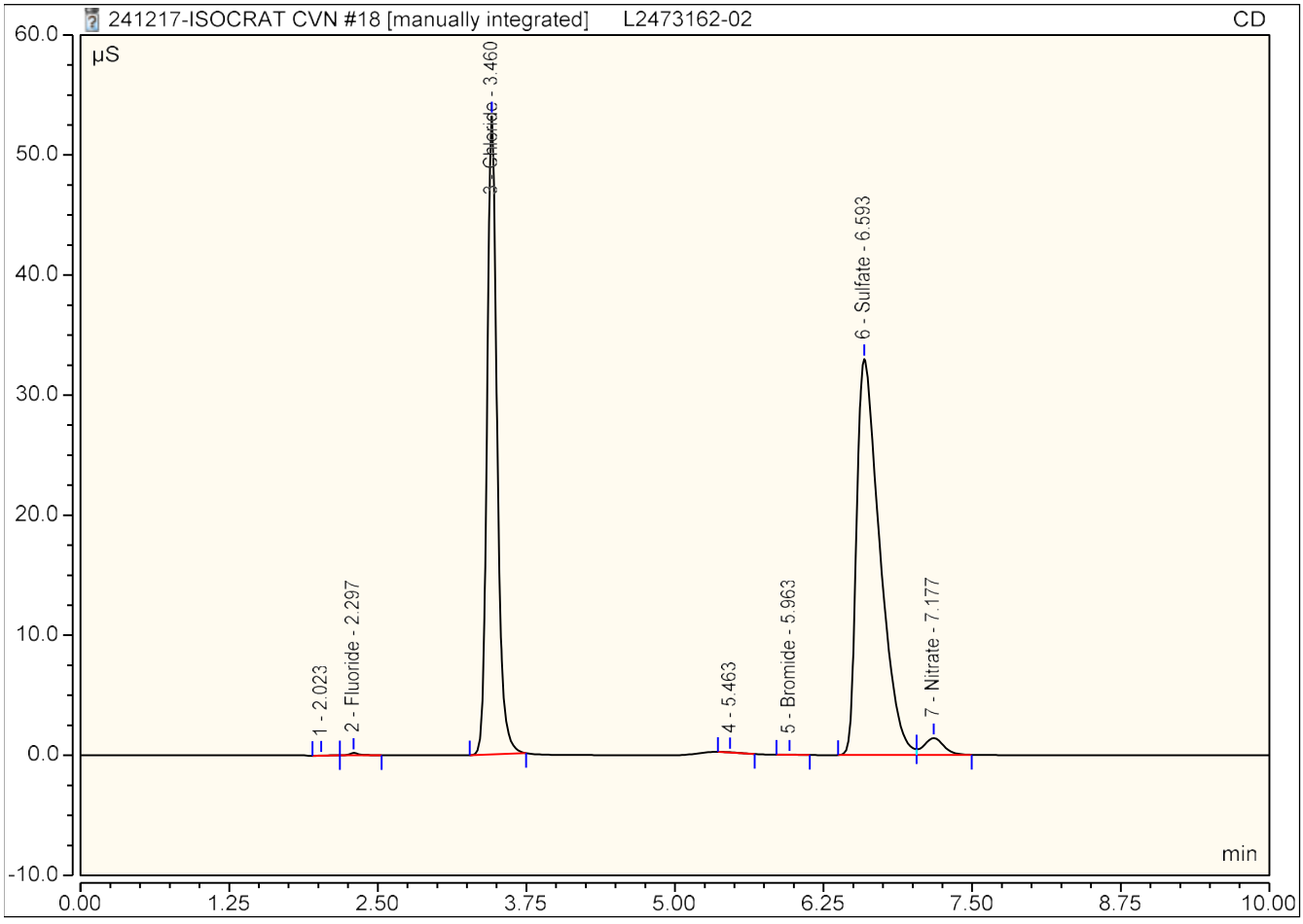
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.099	1.284	0.2096
3	3.46	**Chloride**	BMB	3.264	33.695	8.8065
5	5.97	**Bromide**	BMB	0.005	0.038	0.0750
6	6.67	**Sulfate**	BMB	2.981	14.906	10.6811
TOTAL:				6.35	49.92	19.77



Peak Integration Report

Sample Name:	**L2473162-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 15:58**	*Run Time:*	**10.00**

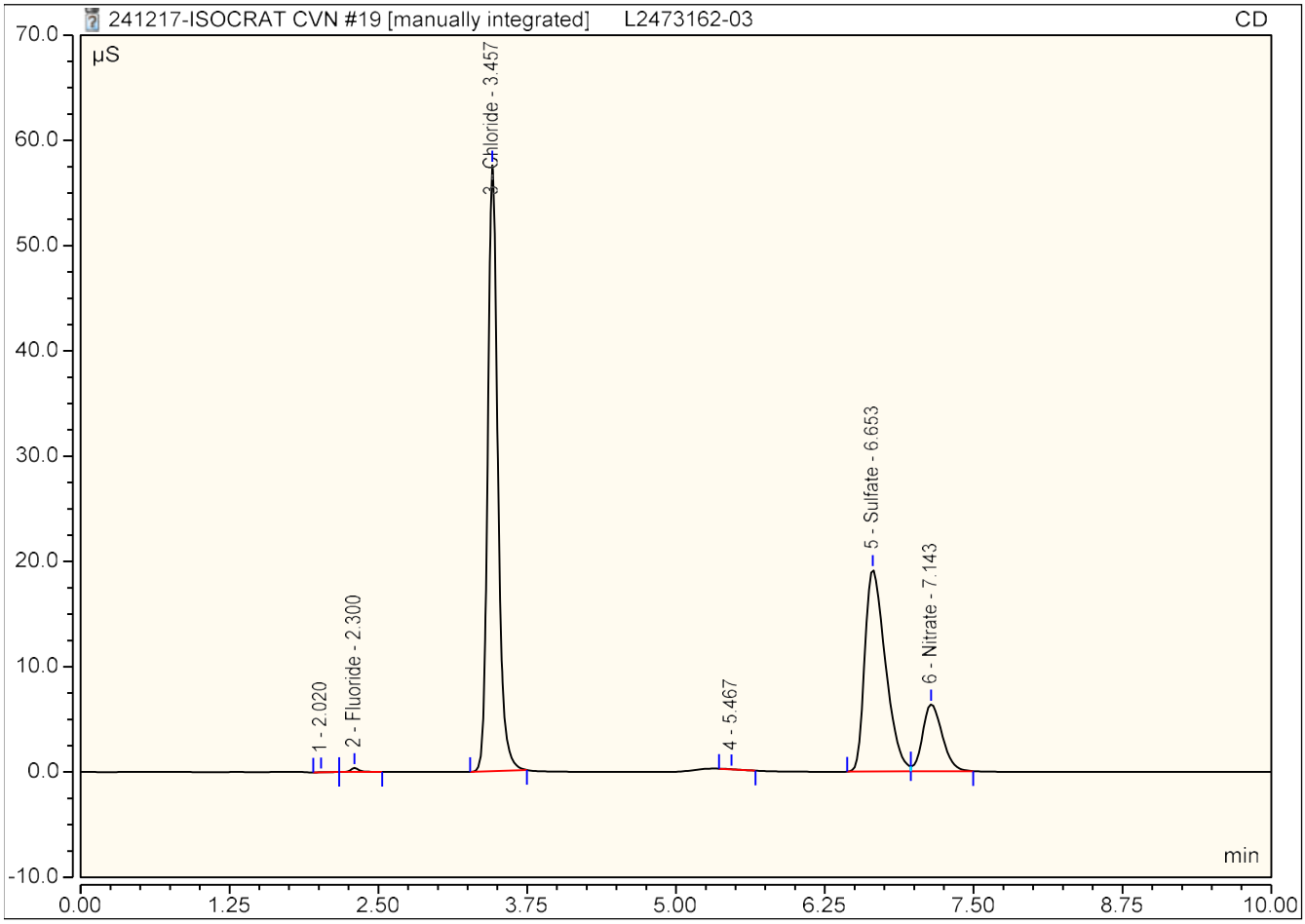
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.016	0.198	0.0526
3	3.46	**Chloride**	BMB	5.239	53.151	14.0644
5	5.96	**Bromide**	BMB	0.002	0.016	0.0479
6	6.59	**Sulfate**	BM *	7.443	32.966	26.3686
7	7.18	**Nitrate**	MB*	0.271	1.401	0.3253
TOTAL:				12.97	87.73	40.86



Peak Integration Report

Sample Name:	**L2473162-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 16:10**	*Run Time:*	**10.00**

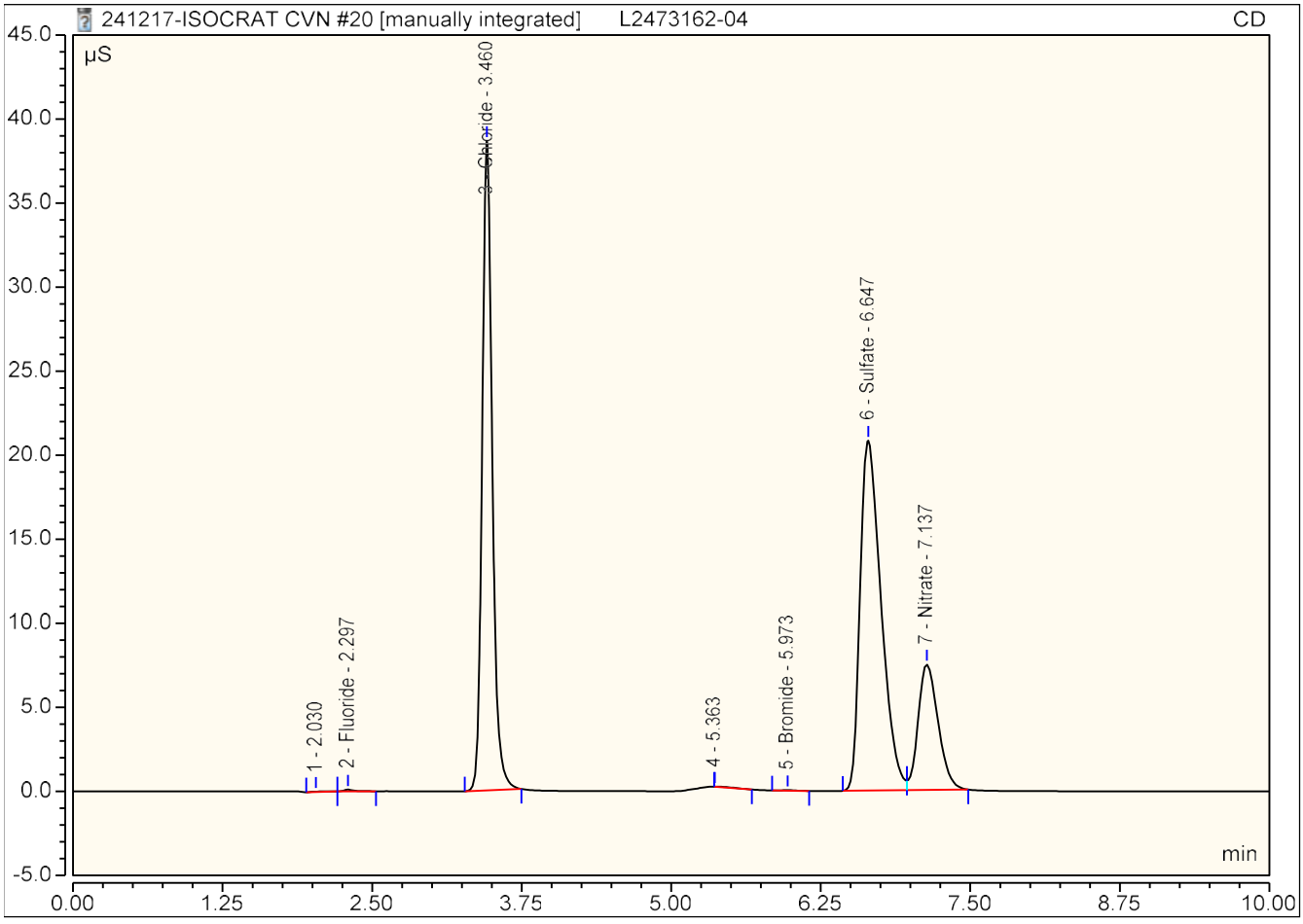
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.032	0.394	0.0819
3	3.46	**Chloride**	BMB	5.686	57.547	15.2559
5	6.65	**Sulfate**	BM *	3.873	19.180	13.8152
6	7.14	**Nitrate**	MB*	1.221	6.360	1.3795
TOTAL:				10.81	83.48	30.53



Peak Integration Report

Sample Name:	**L2473162-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 16:22**	*Run Time:*	**10.00**

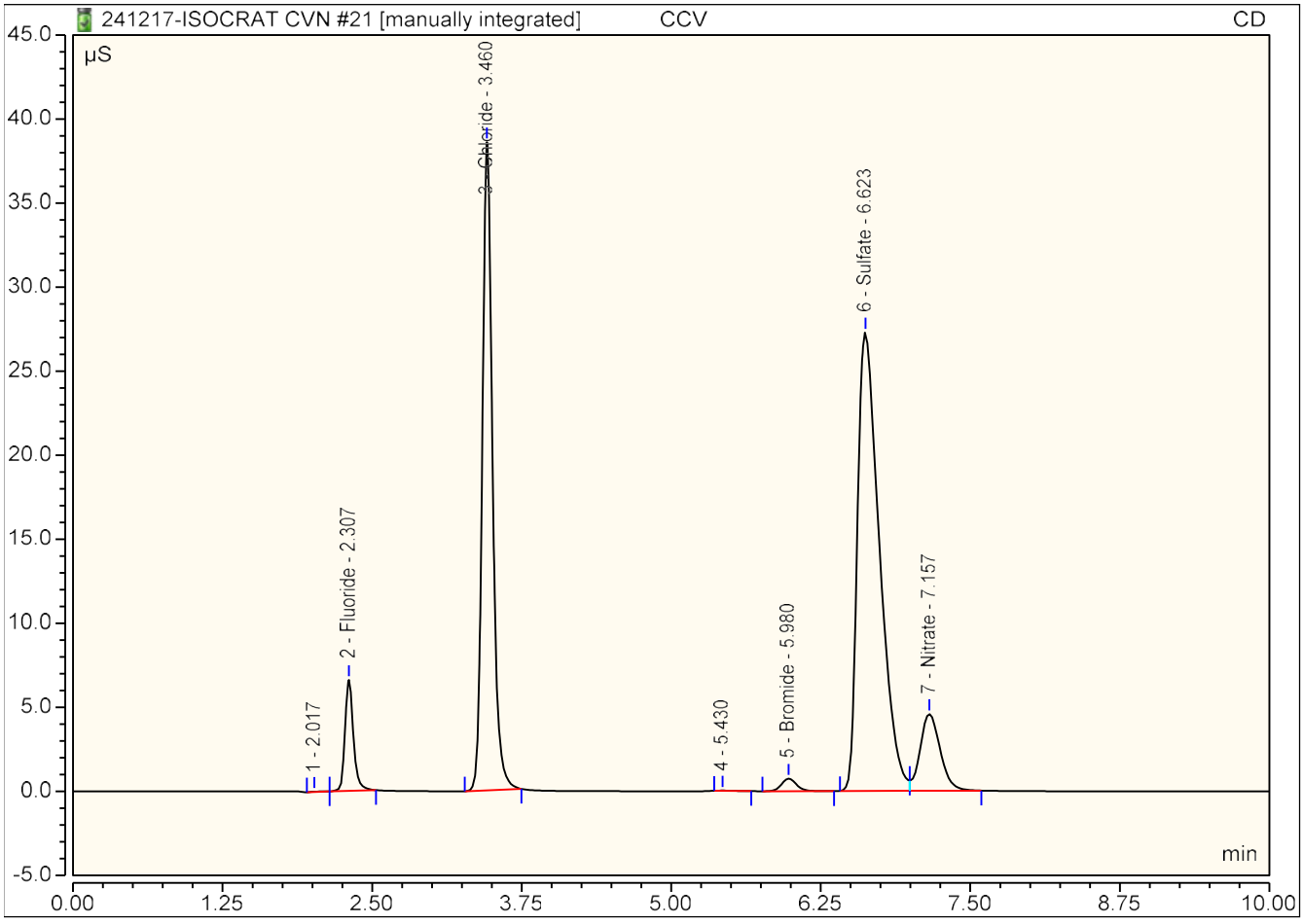
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.009	0.101	0.0380
3	3.46	**Chloride**	BMB	3.796	38.642	10.2240
5	5.97	**Bromide**	BMB	0.004	0.029	0.0630
6	6.65	**Sulfate**	BM *	4.223	20.825	15.0485
7	7.14	**Nitrate**	MB*	1.443	7.471	1.6252
TOTAL:				9.47	67.07	27.00



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:	**17-Dec-2024 / 16:34**	*Run Time:*	**10.00**

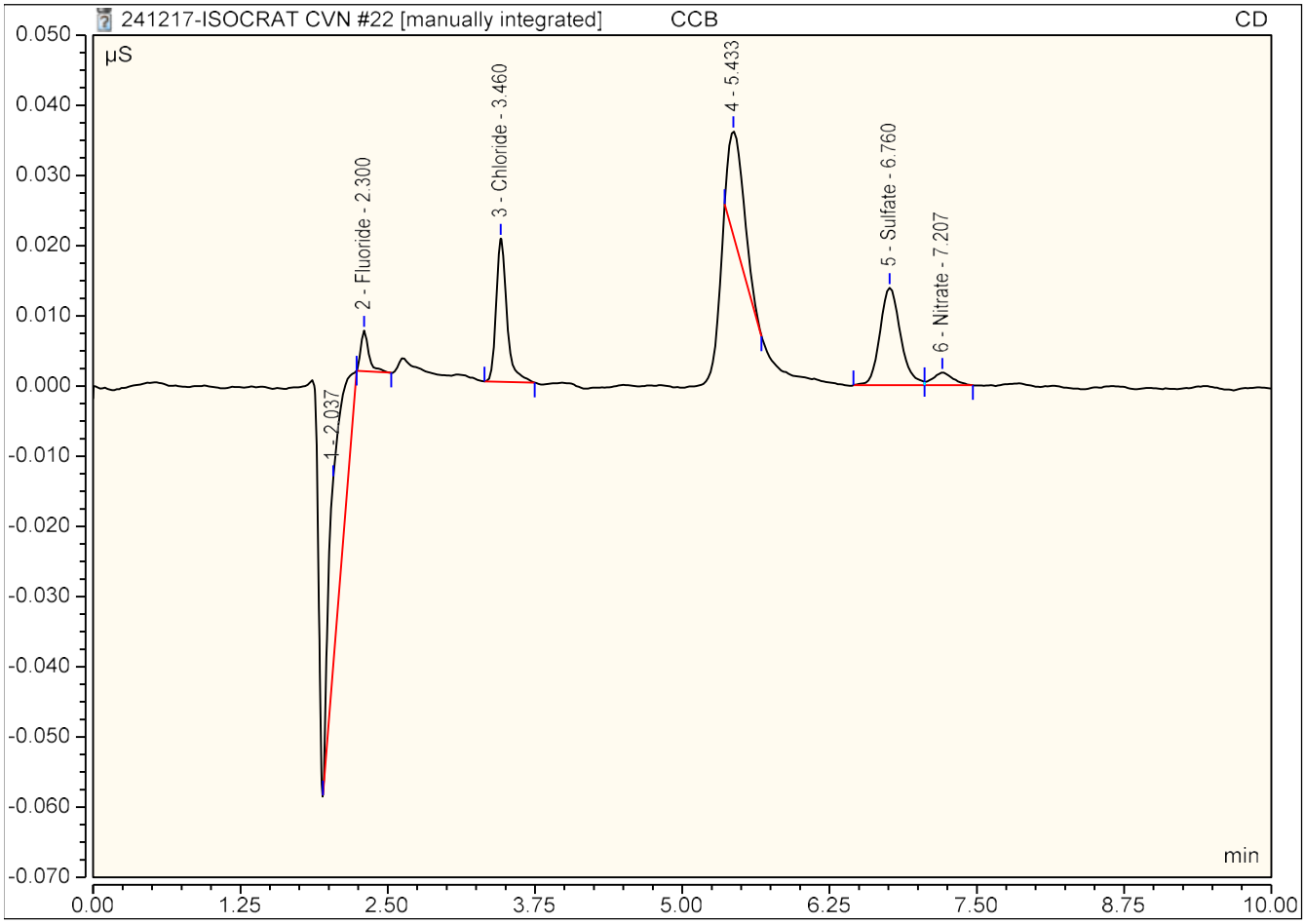
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.533	6.603	1.0332
3	3.46	**Chloride**	BMB	3.812	38.571	10.2667
5	5.98	**Bromide**	BMB	0.111	0.758	0.9784
6	6.62	**Sulfate**	BM *	5.812	27.275	20.6329
7	7.16	**Nitrate**	MB*	0.884	4.565	1.0056
TOTAL:				11.15	77.77	33.92



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:	**17-Dec-2024 / 16:46**	*Run Time:*	**10.00**

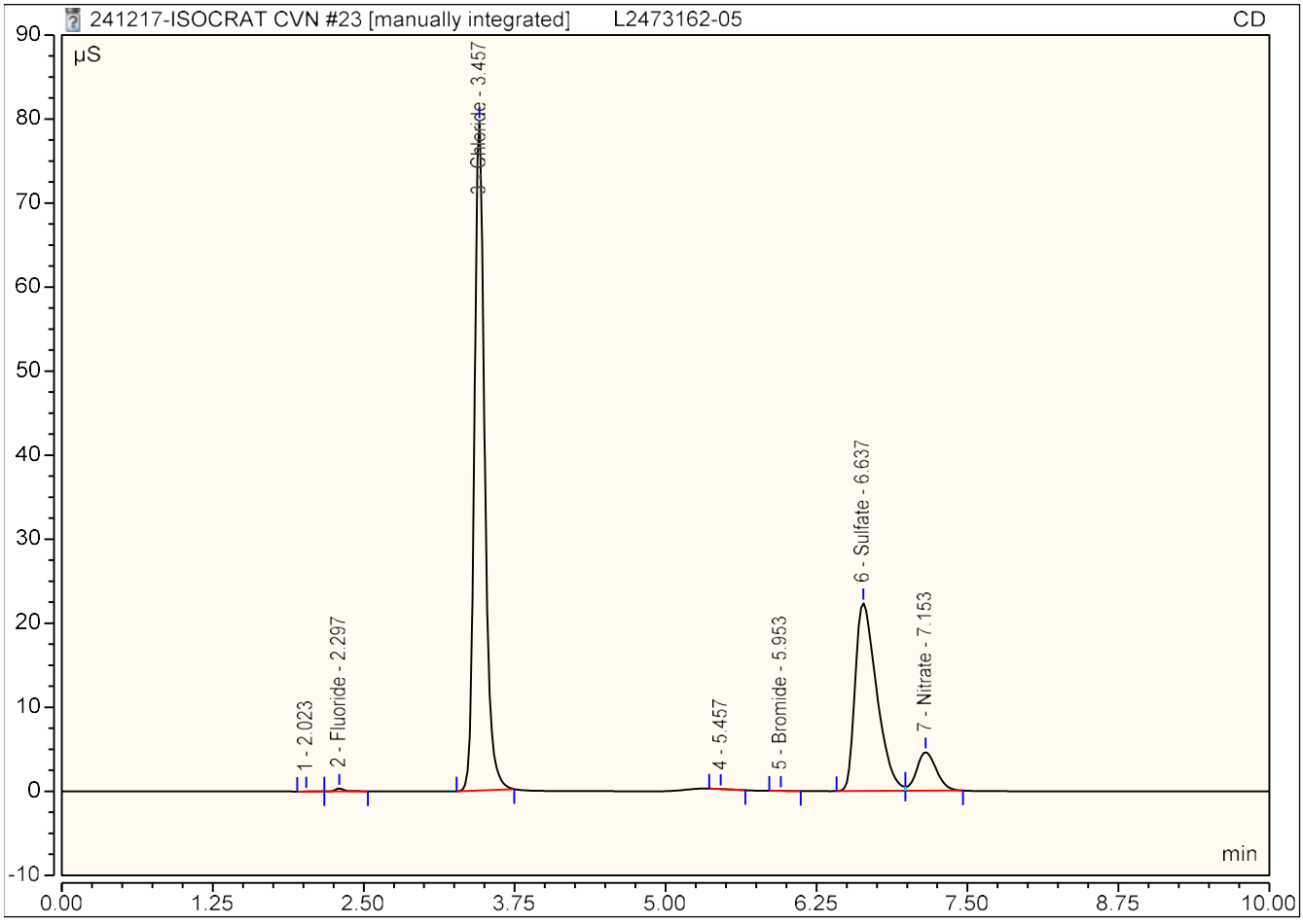
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.000	0.006	0.0225
3	3.46	**Chloride**	BMB	0.002	0.020	0.1233
5	6.76	**Sulfate**	BM *	0.003	0.014	0.2103
6	7.21	**Nitrate**	MB*	0.000	0.002	0.0256
TOTAL:				0.01	0.04	0.38



Peak Integration Report

Sample Name:	**L2473162-05**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 16:58**	*Run Time:*	**10.00**

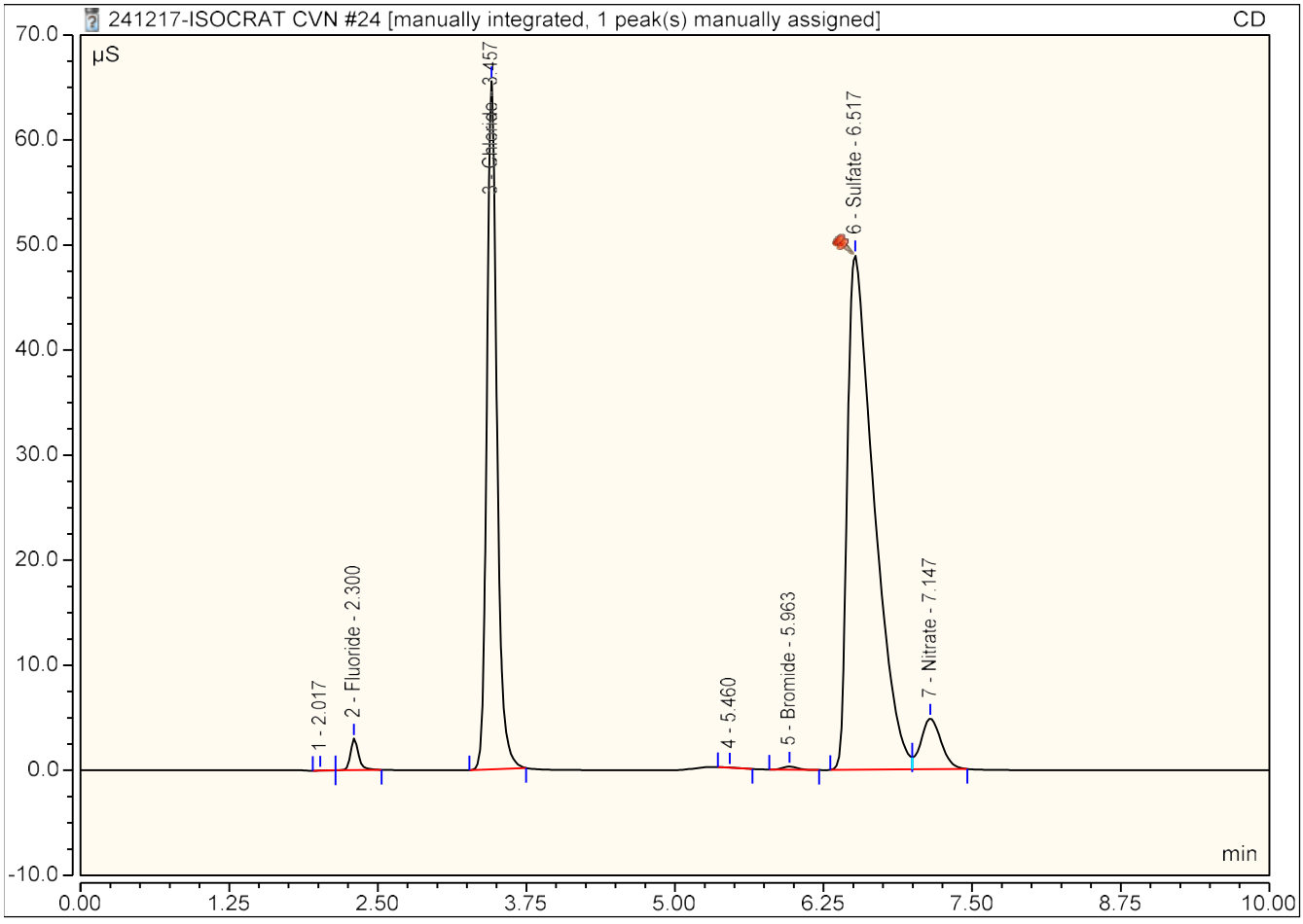
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.028	0.342	0.0745
3	3.46	**Chloride**	BMB	7.910	79.557	21.1781
5	5.95	**Bromide**	BMB	0.002	0.011	0.0427
6	6.64	**Sulfate**	BM *	4.633	22.340	16.4892
7	7.15	**Nitrate**	MB*	0.866	4.582	0.9857
TOTAL:				13.44	106.83	38.77



Peak Integration Report

Sample Name:	**L2473162-06 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 17:10**	*Run Time:*	**10.00**

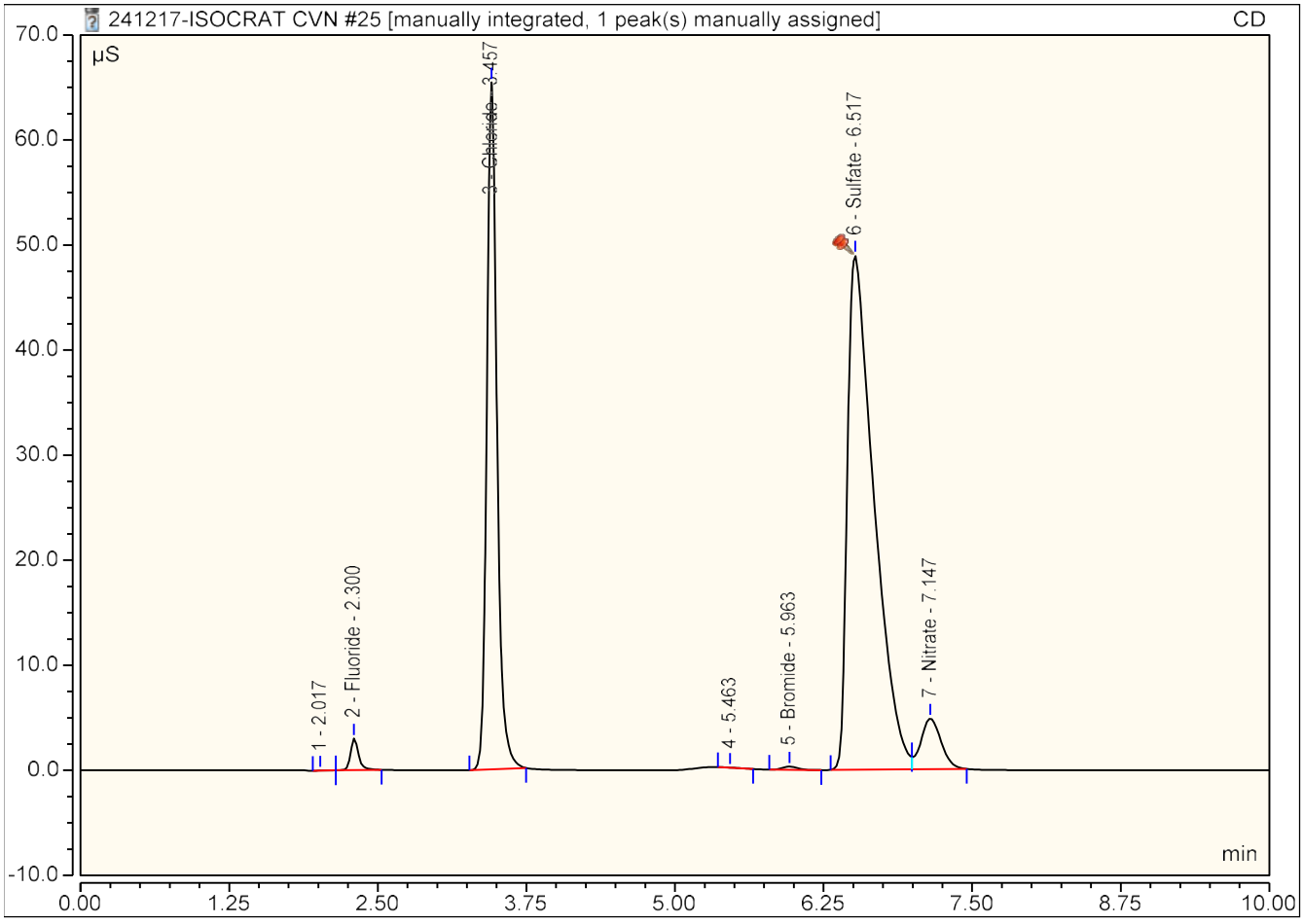
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.237	3.006	0.4724
3	3.46	**Chloride**	BMB	6.489	65.512	17.3938
5	5.96	**Bromide**	BMB	0.043	0.307	0.4014
6	6.52	**Sulfate**	BM *^	12.687	48.994	44.8034
7	7.15	**Nitrate**	MB*	0.954	4.828	1.0826
TOTAL:				20.41	122.65	64.15



Peak Integration Report

Sample Name:	**L2473162-06 MSD**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 17:22**	*Run Time:*	**10.00**

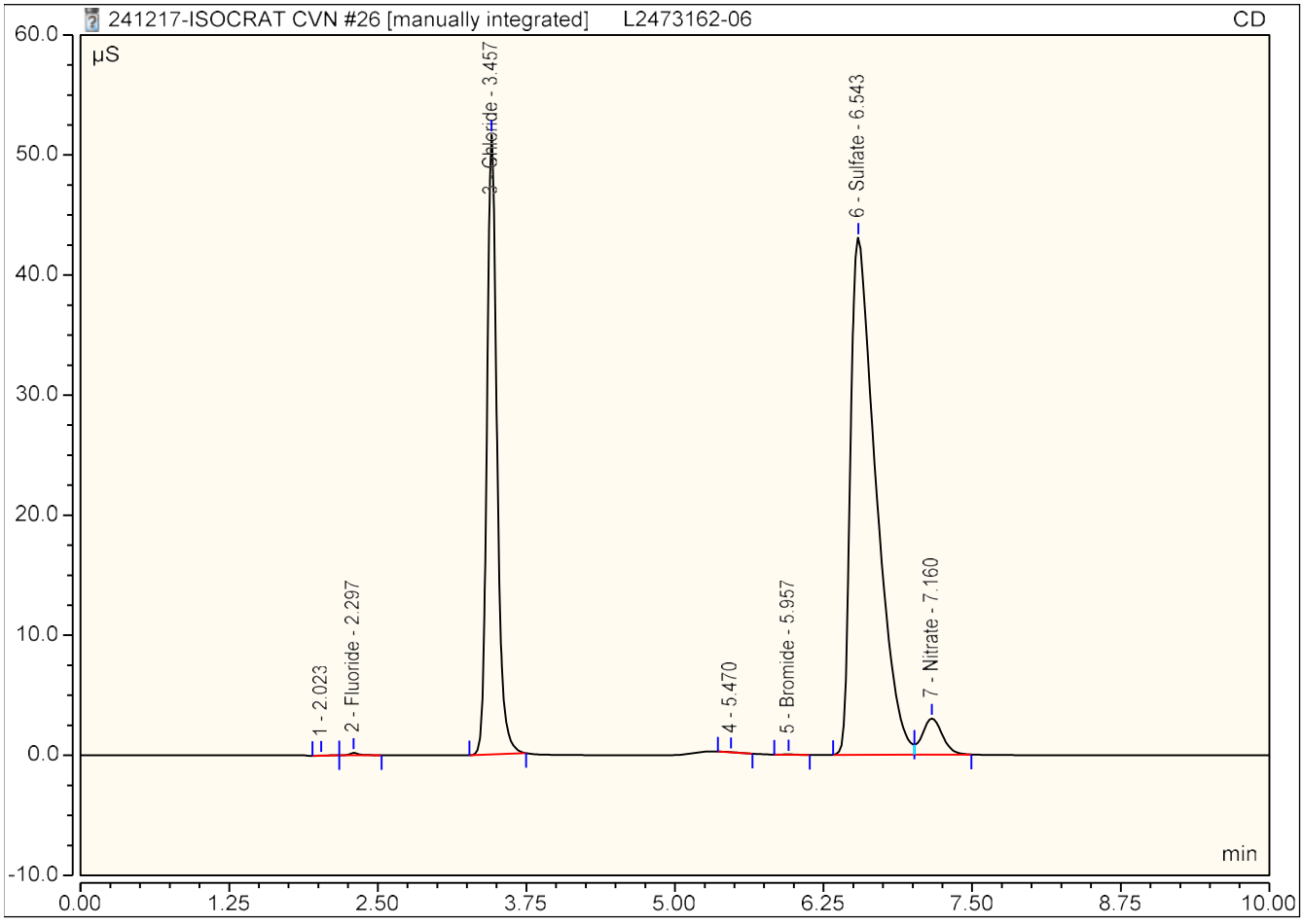
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.237	3.005	0.4724
3	3.46	**Chloride**	BMB	6.489	65.381	17.3928
5	5.96	**Bromide**	BMB	0.043	0.306	0.4005
6	6.52	**Sulfate**	BM *^	12.668	48.959	44.7348
7	7.15	**Nitrate**	MB*	0.956	4.816	1.0848
TOTAL:				20.39	122.47	64.09



Peak Integration Report

Sample Name:	**L2473162-06**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 17:35**	*Run Time:*	**10.00**

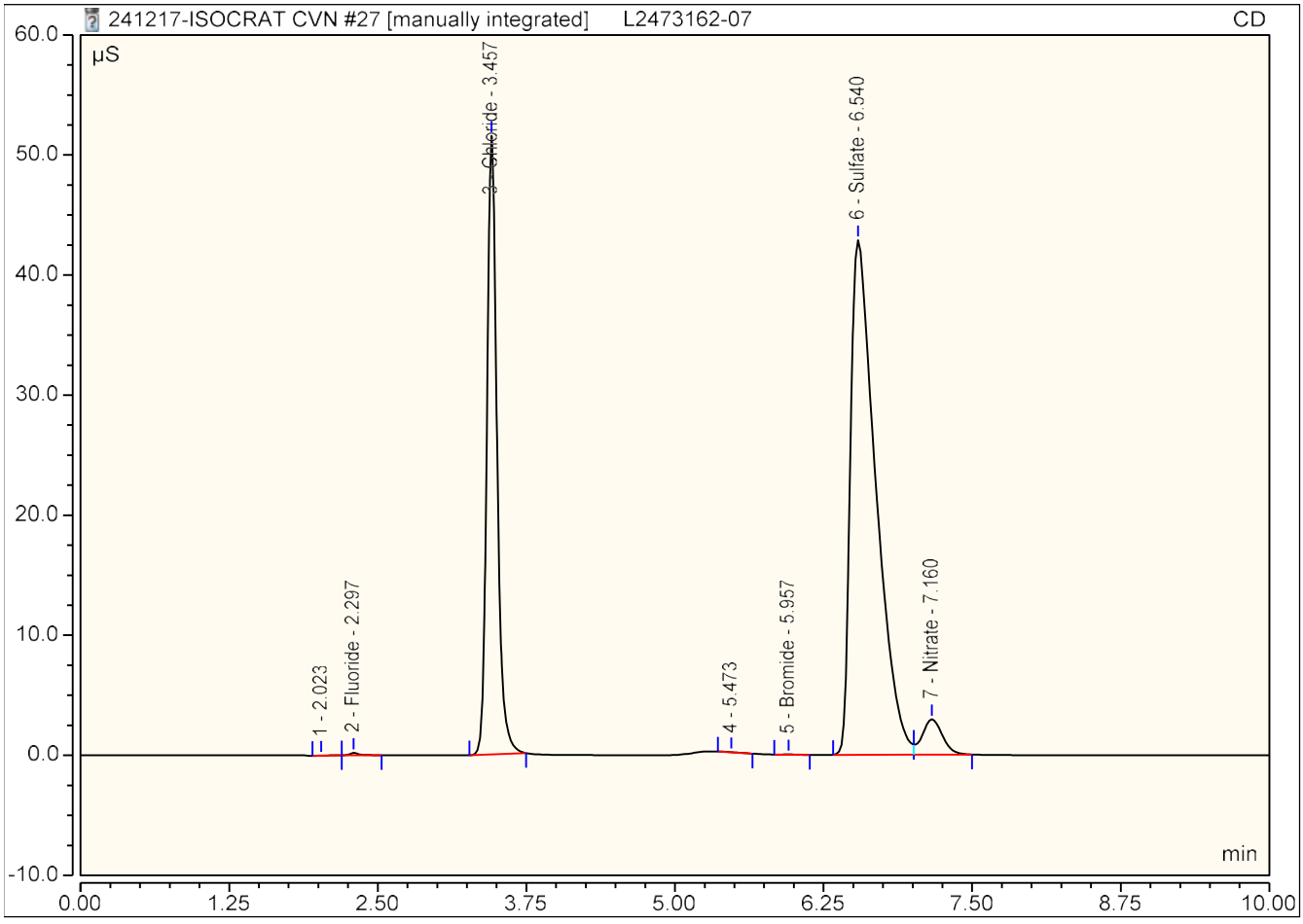
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.017	0.207	0.0547
3	3.46	**Chloride**	BMB	5.095	51.607	13.6831
5	5.96	**Bromide**	BMB	0.004	0.028	0.0605
6	6.54	**Sulfate**	BM *	10.652	43.065	37.6475
7	7.16	**Nitrate**	MB*	0.590	3.015	0.6800
TOTAL:				16.36	97.92	52.13



Peak Integration Report

Sample Name:	**L2473162-07**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 17:47**	*Run Time:*	**10.00**

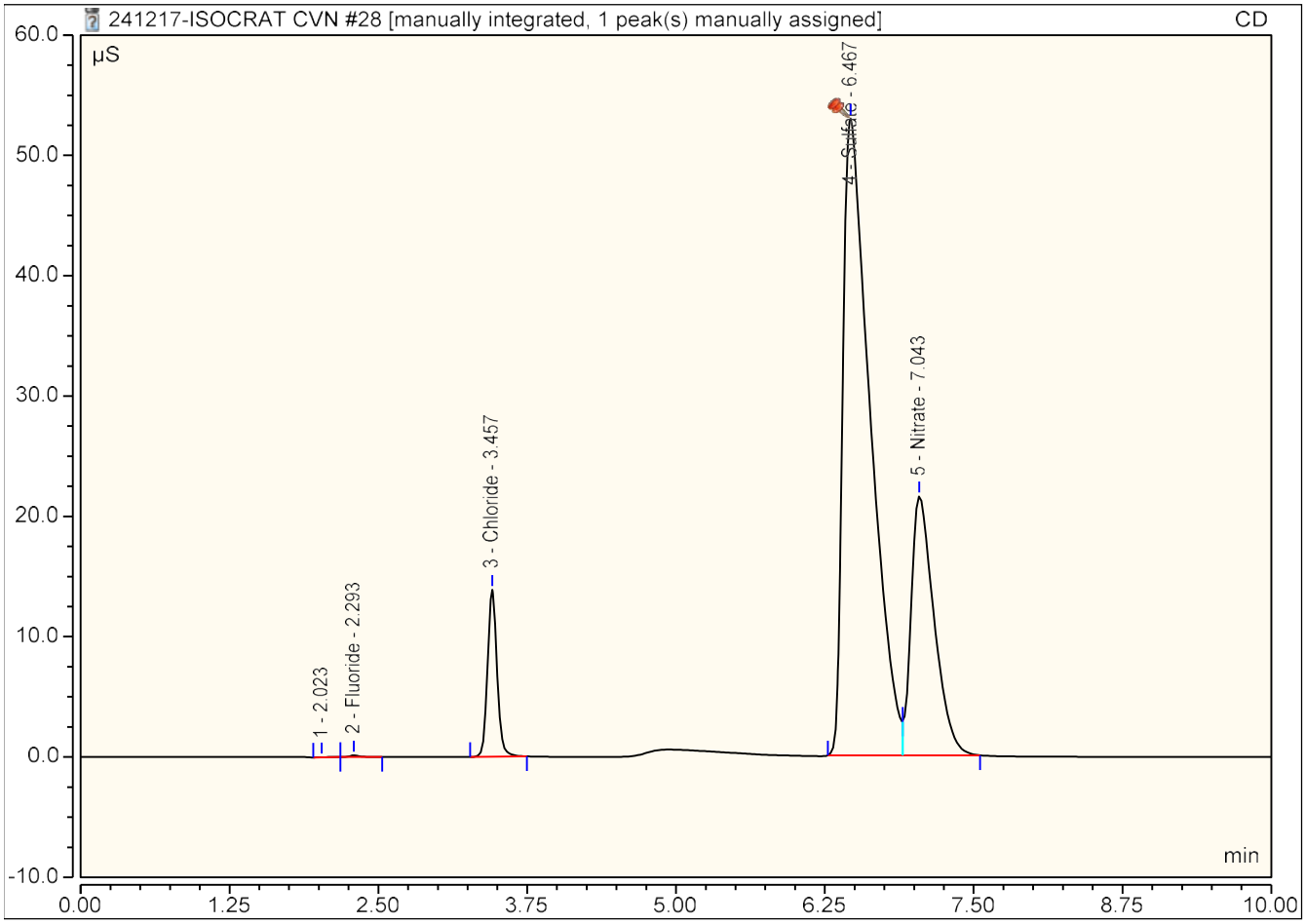
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.017	0.202	0.0539
3	3.46	**Chloride**	BMB	5.090	51.510	13.6678
5	5.96	**Bromide**	BMB	0.004	0.027	0.0606
6	6.54	**Sulfate**	BM *	10.595	42.866	37.4496
7	7.16	**Nitrate**	MB*	0.581	2.946	0.6696
TOTAL:				16.29	97.55	51.90



Peak Integration Report

Sample Name:	**L2473162-08**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 17:59**	*Run Time:*	**10.00**

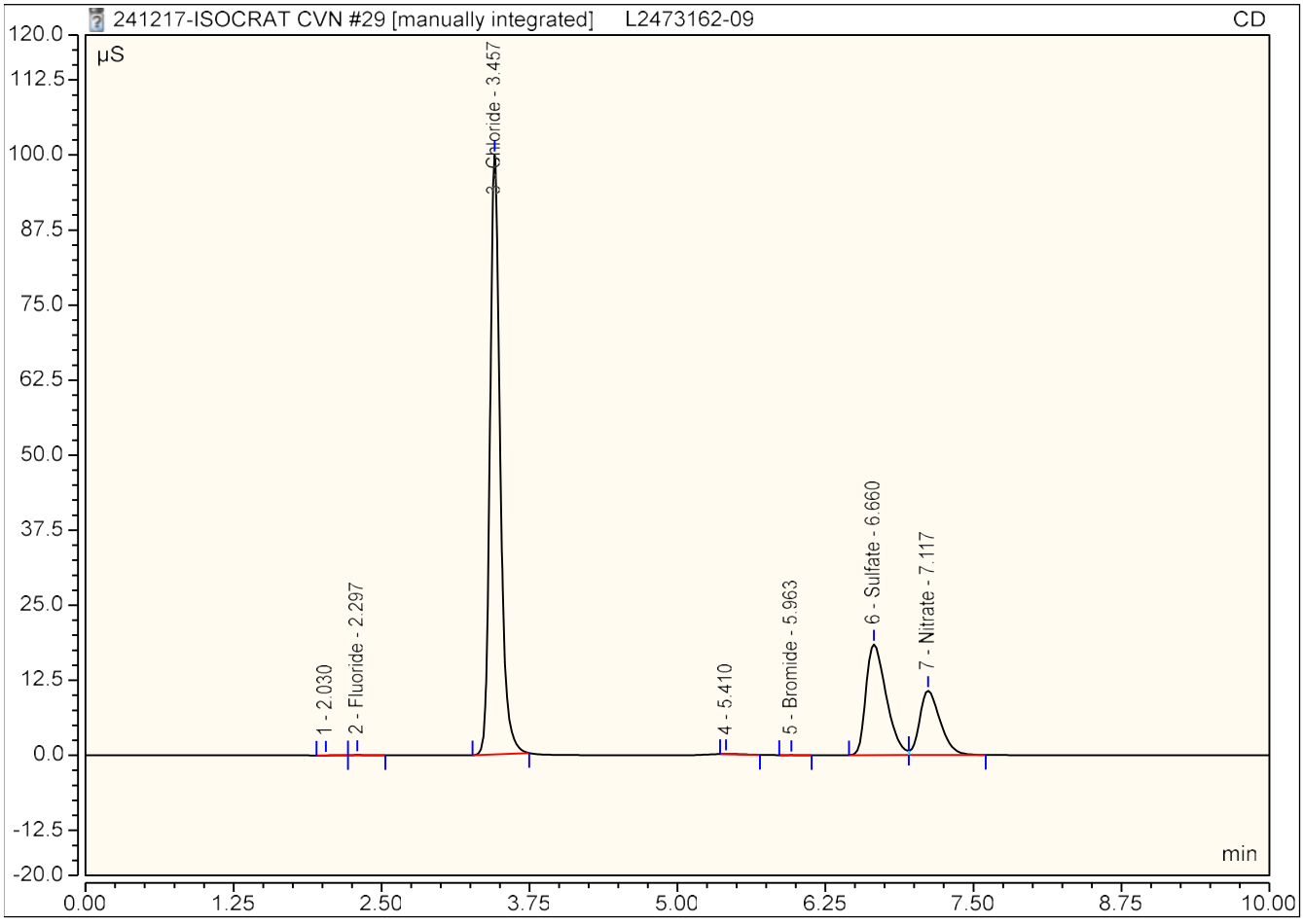
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.013	0.144	0.0453
3	3.46	**Chloride**	BMB	1.291	13.885	3.5558
4	6.47	**Sulfate**	BM *^	14.140	52.914	49.9122
5	7.04	**Nitrate**	MB*	4.835	21.526	5.3865
TOTAL:				20.28	88.47	58.90



Peak Integration Report

Sample Name:	**L2473162-09**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 18:11**	*Run Time:*	**10.00**

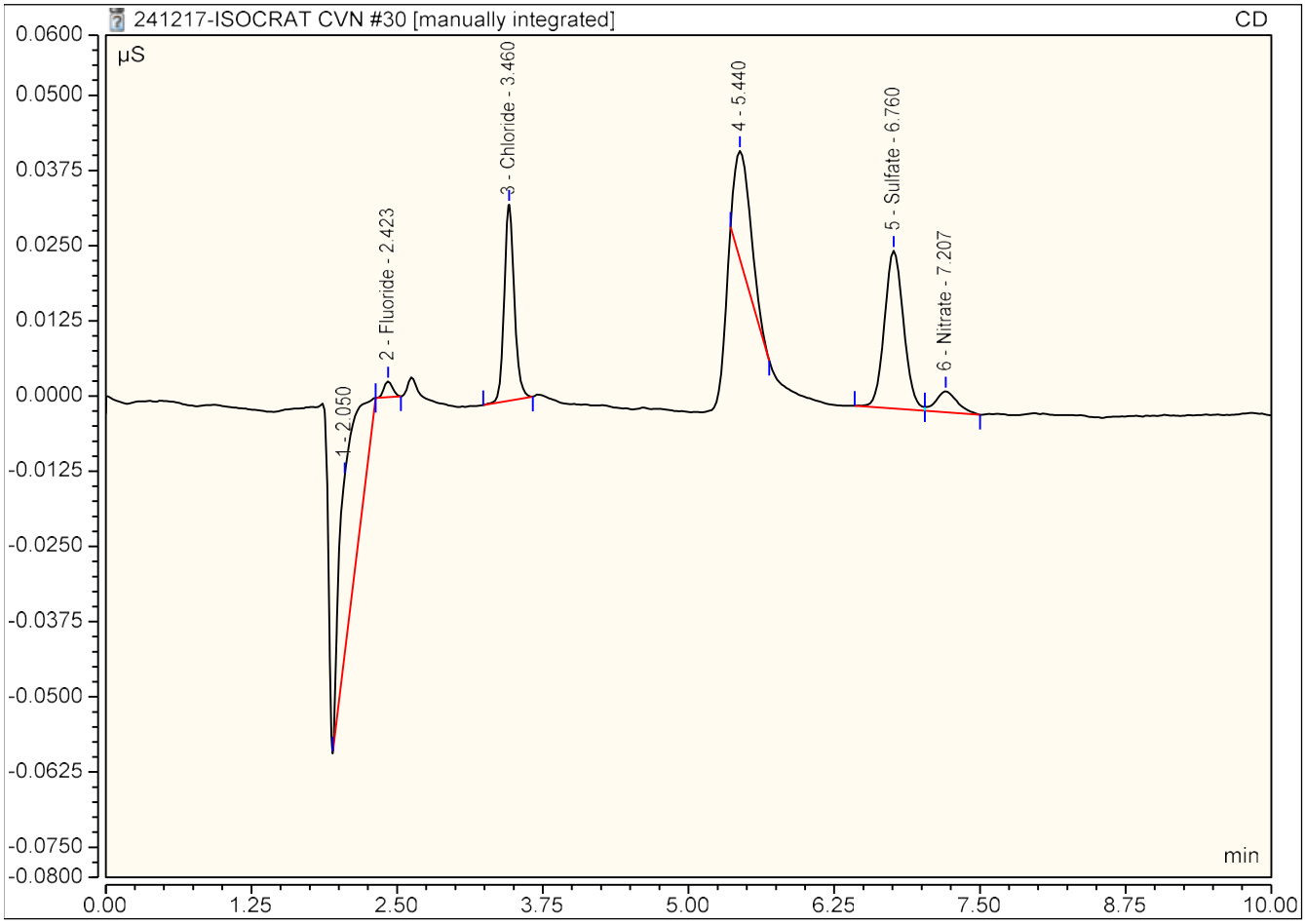
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.006	0.068	0.0330
3	3.46	**Chloride**	BMB	10.055	99.830	26.8879
5	5.96	**Bromide**	BMB	0.001	0.010	0.0408
6	6.66	**Sulfate**	BM *	3.654	18.451	13.0459
7	7.12	**Nitrate**	MB*	2.144	10.689	2.4029
TOTAL:				15.86	129.05	42.41



Peak Integration Report

Sample Name:	**L2473162-10**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 18:23**	*Run Time:*	**10.00**

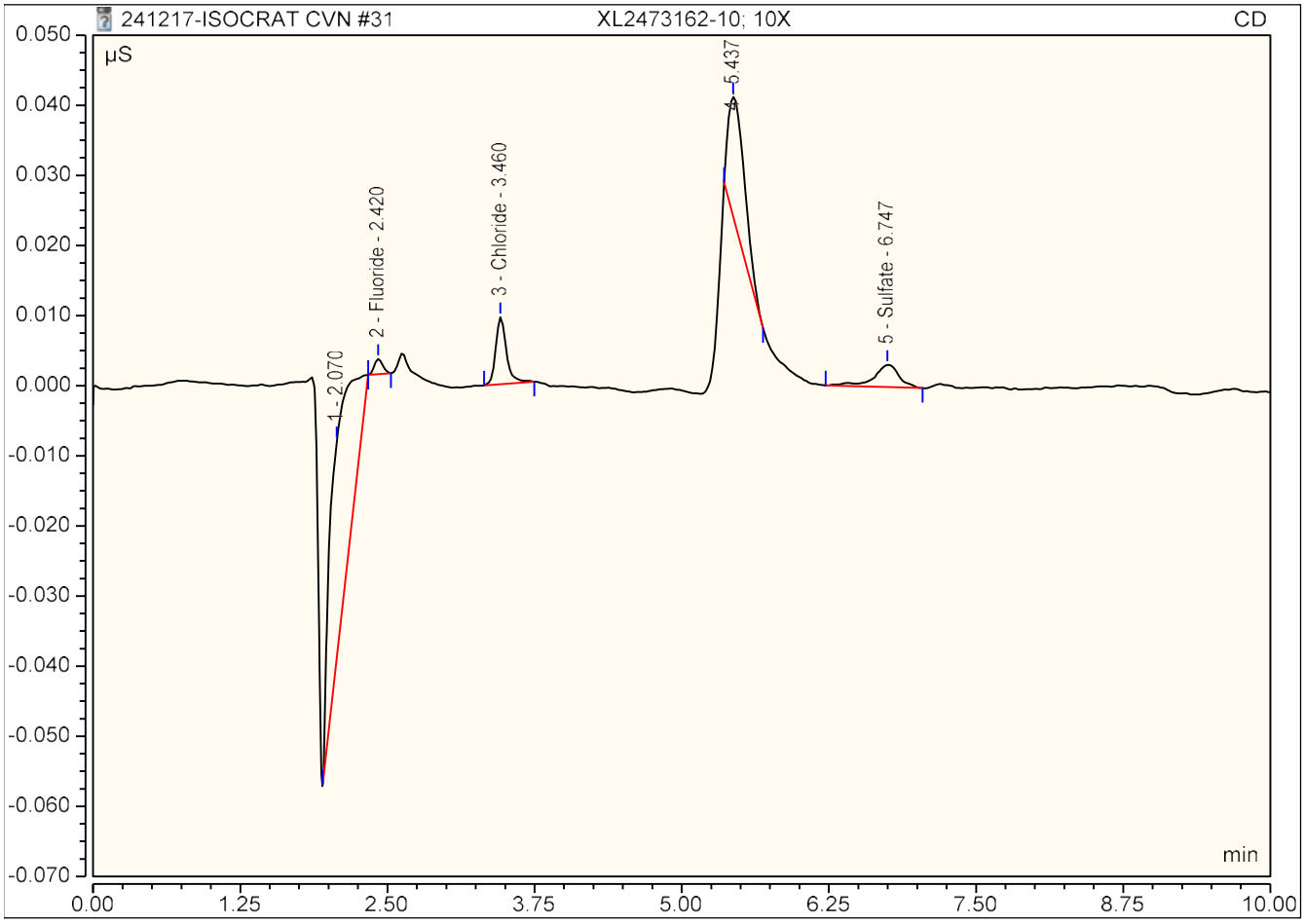
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.42	**Fluoride**	BMB	0.000	0.003	0.0220
3	3.46	**Chloride**	BMB	0.003	0.033	0.1263
5	6.76	**Sulfate**	BM *	0.005	0.026	0.2180
6	7.21	**Nitrate**	MB*	0.001	0.004	0.0261
TOTAL:				0.01	0.06	0.39



Peak Integration Report

Sample Name:	**XL2473162-10; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 18:35**	*Run Time:*	**10.00**

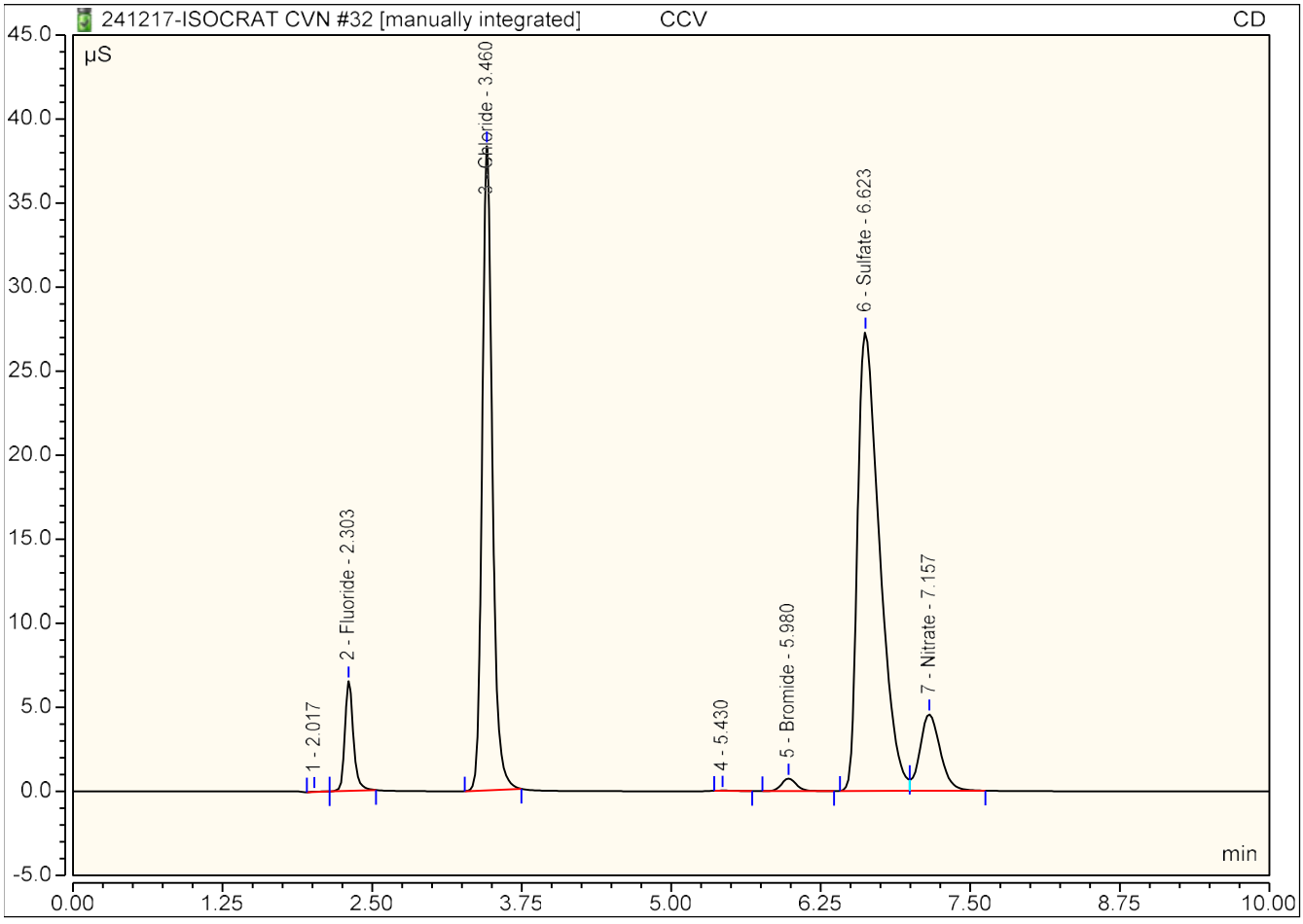
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.42	**Fluoride**	BMB	0.000	0.002	0.2195
3	3.46	**Chloride**	BMB	0.001	0.010	1.2032
5	6.75	**Sulfate**	BMB	0.001	0.003	2.0325
TOTAL:				0.00	0.01	3.46



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:	**17-Dec-2024 / 18:47**	*Run Time:*	**10.00**

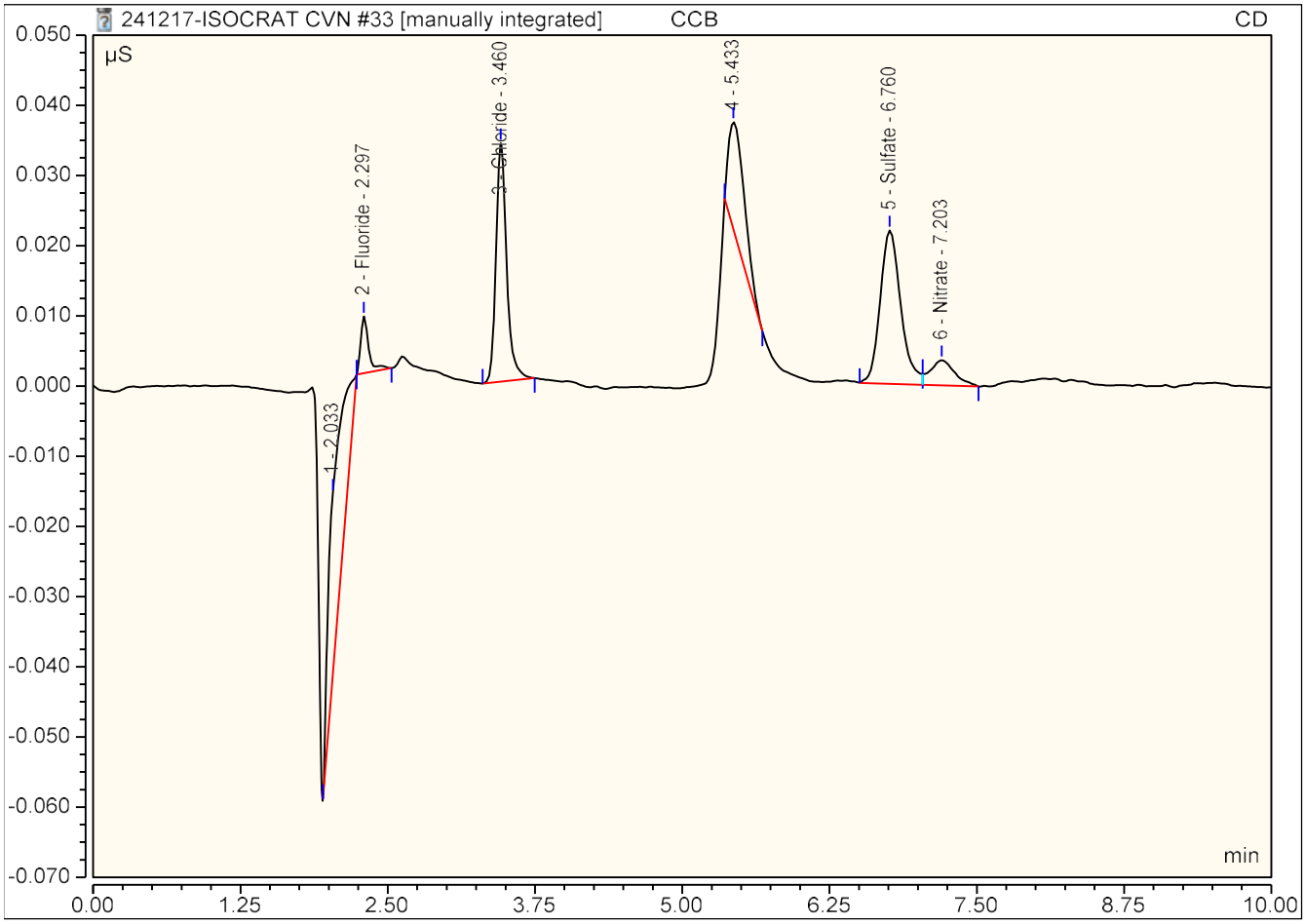
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.532	6.522	1.0317
3	3.46	**Chloride**	BMB	3.809	38.327	10.2584
5	5.98	**Bromide**	BMB	0.111	0.758	0.9823
6	6.62	**Sulfate**	BM *	5.823	27.278	20.6733
7	7.16	**Nitrate**	MB*	0.890	4.553	1.0121
TOTAL:				11.17	77.44	33.96



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:	**17-Dec-2024 / 18:59**	*Run Time:*	**10.00**

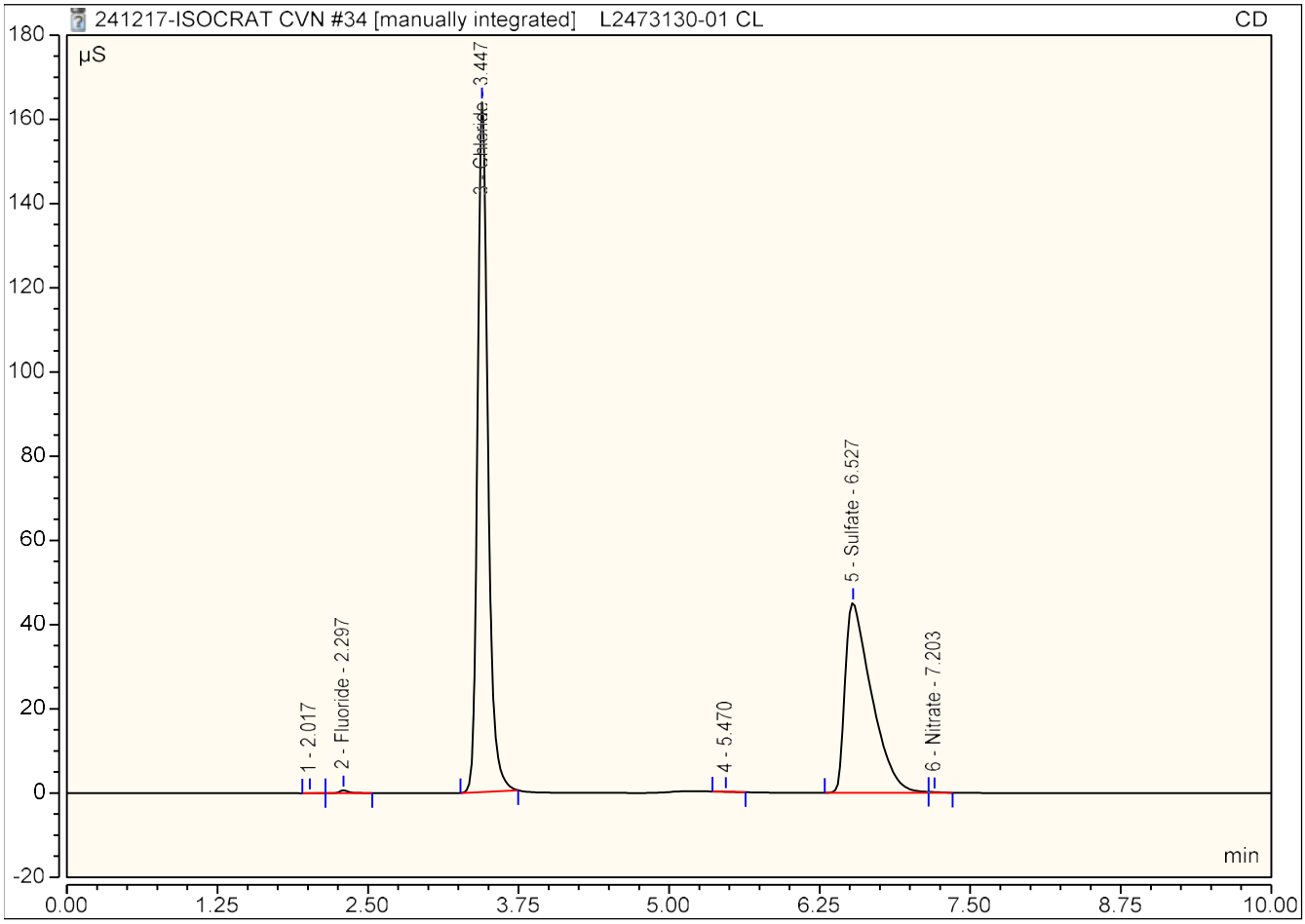
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.001	0.008	0.0228
3	3.46	**Chloride**	BMB	0.004	0.034	0.1270
5	6.76	**Sulfate**	BM *	0.004	0.022	0.2160
6	7.20	**Nitrate**	MB*	0.001	0.004	0.0262
TOTAL:				0.01	0.07	0.39



Peak Integration Report

Sample Name:	**L2473130-01 CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 19:11**	*Run Time:*	**10.00**

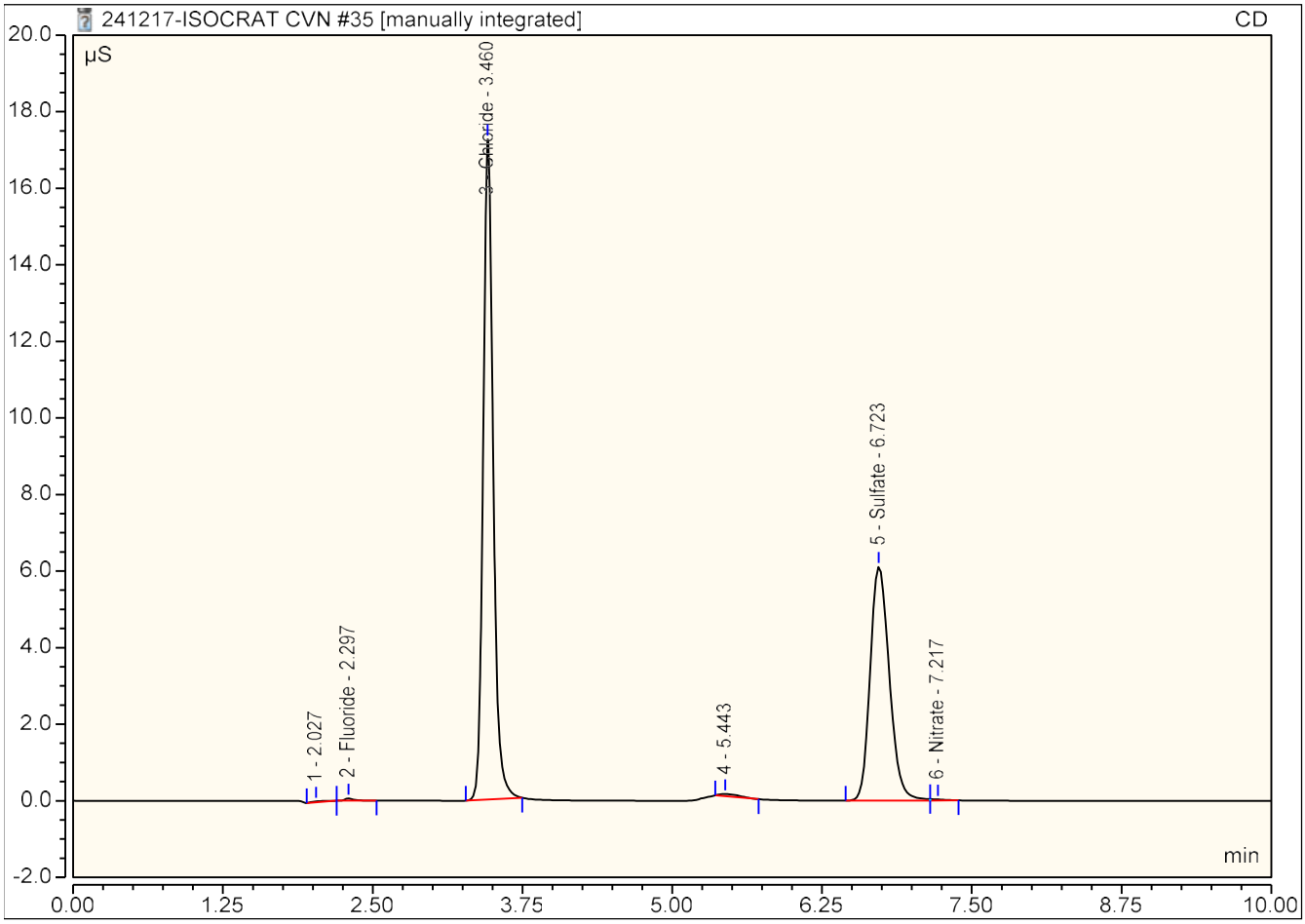
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.053	0.668	0.1223
3	3.45	**Chloride**	BMB	16.384	163.816	43.7369
5	6.53	**Sulfate**	BM *	11.483	45.105	40.5694
6	7.20	**Nitrate**	MB*	0.020	0.163	0.0477
TOTAL:				27.94	209.75	84.48



Peak Integration Report

Sample Name:	**XL2473130-01; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 19:23**	*Run Time:*	**10.00**

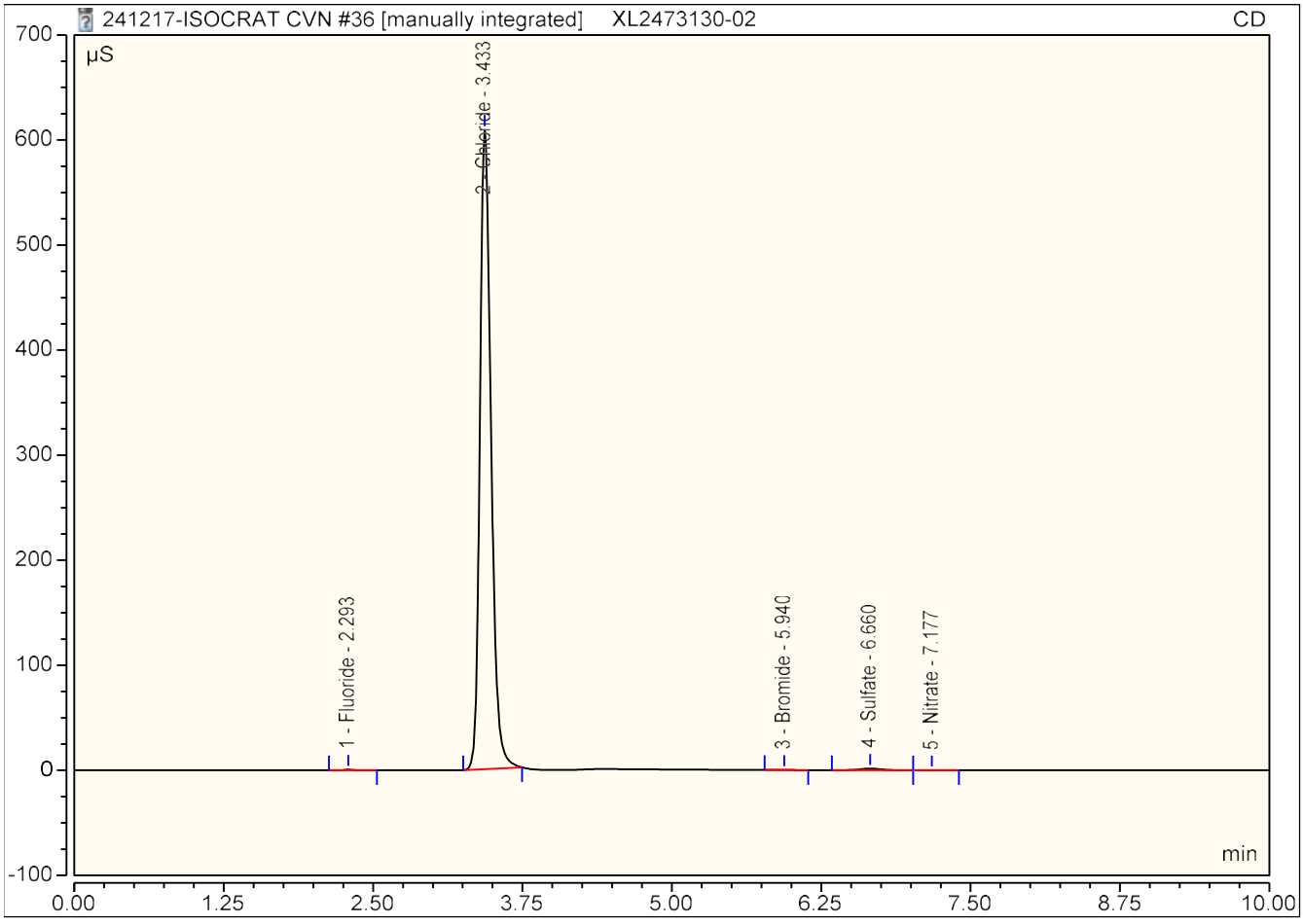
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.005	0.060	0.3179
3	3.46	**Chloride**	BMB	1.679	17.249	45.8895
5	6.72	**Sulfate**	BM *	1.132	6.113	41.8019
6	7.22	**Nitrate**	MB*	0.004	0.026	0.2955
TOTAL:				2.82	23.45	88.30



Peak Integration Report

Sample Name:	**XL2473130-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 19:36**	*Run Time:*	**10.00**

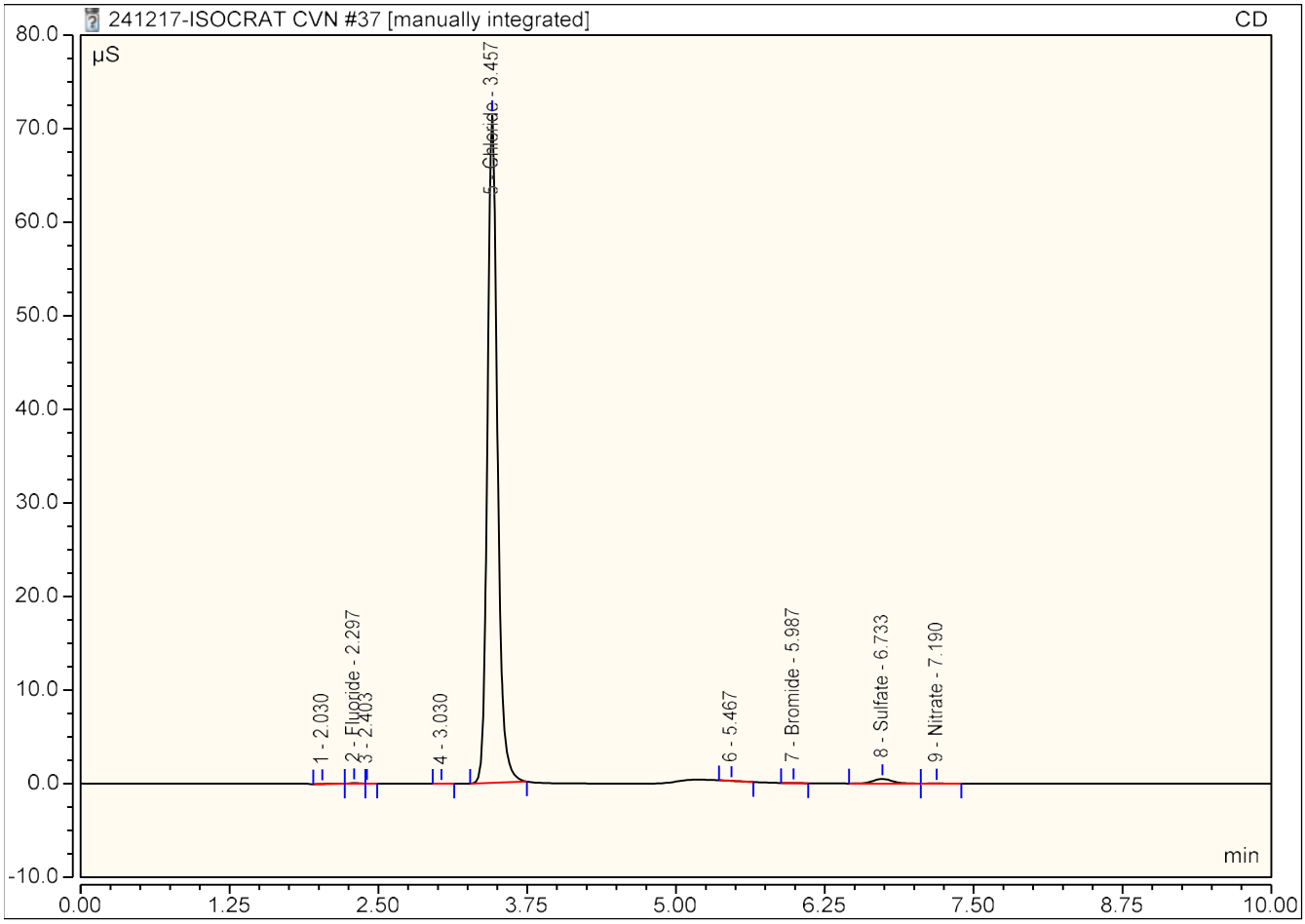
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.29	**Fluoride**	BMB	0.072	0.698	0.1585
2	3.43	**Chloride**	BMB	65.802	608.654	175.3058
3	5.94	**Bromide**	BMB	0.015	0.095	0.1553
4	6.66	**Sulfate**	BM *	0.334	1.574	1.3752
5	7.18	**Nitrate**	MB*	0.014	0.072	0.0402
TOTAL:				66.24	611.09	177.03



Peak Integration Report

Sample Name:	**L2473130-02; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 19:48**	*Run Time:*	**10.00**

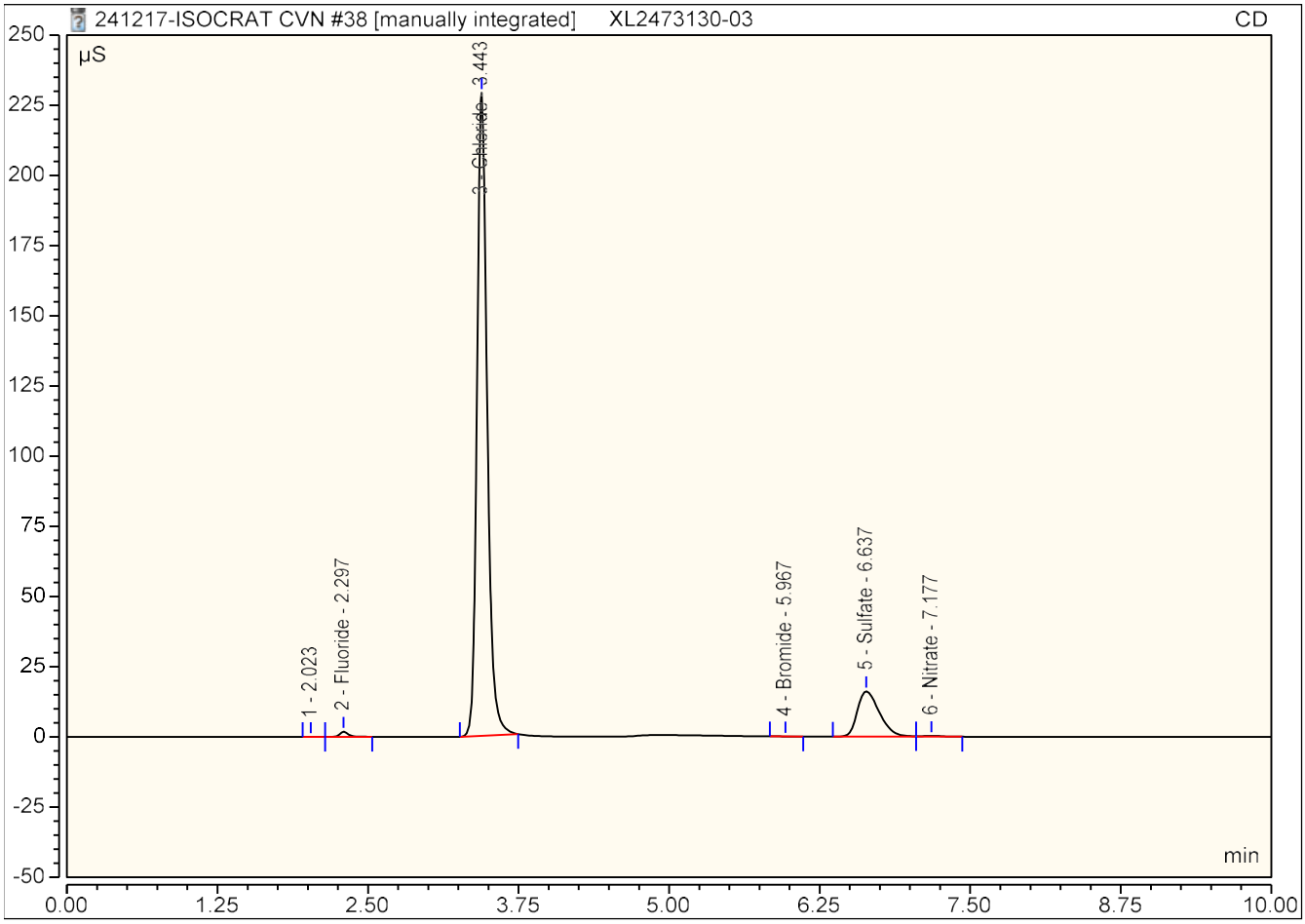
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.005	0.074	0.3138
5	3.46	**Chloride**	BMB	7.010	71.380	187.7981
7	5.99	**Bromide**	BMB	0.001	0.006	0.3479
8	6.73	**Sulfate**	BM *	0.095	0.497	5.3409
9	7.19	**Nitrate**	MB*	0.003	0.016	0.2860
TOTAL:				7.11	71.97	194.09



Peak Integration Report

Sample Name:	**XL2473130-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 20:00**	*Run Time:*	**10.00**

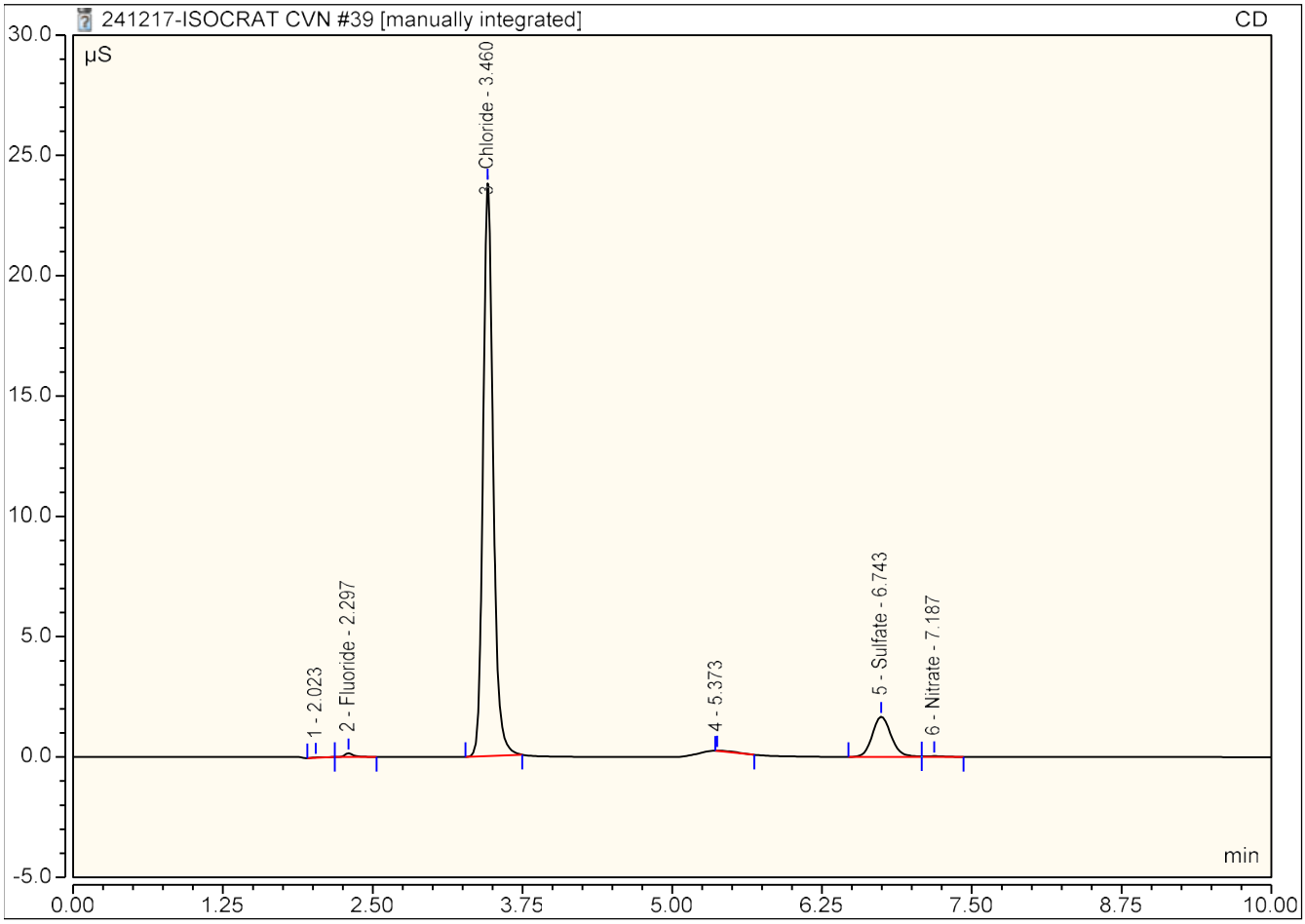
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.153	1.893	0.3130
3	3.44	**Chloride**	BMB	22.491	229.050	59.9973
4	5.97	**Bromide**	BMB	0.002	0.019	0.0506
5	6.64	**Sulfate**	BM *	3.434	16.208	12.2730
6	7.18	**Nitrate**	MB*	0.060	0.295	0.0914
TOTAL:				26.14	247.47	72.73



Peak Integration Report

Sample Name:	**L2473130-03; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 20:12**	*Run Time:*	**10.00**

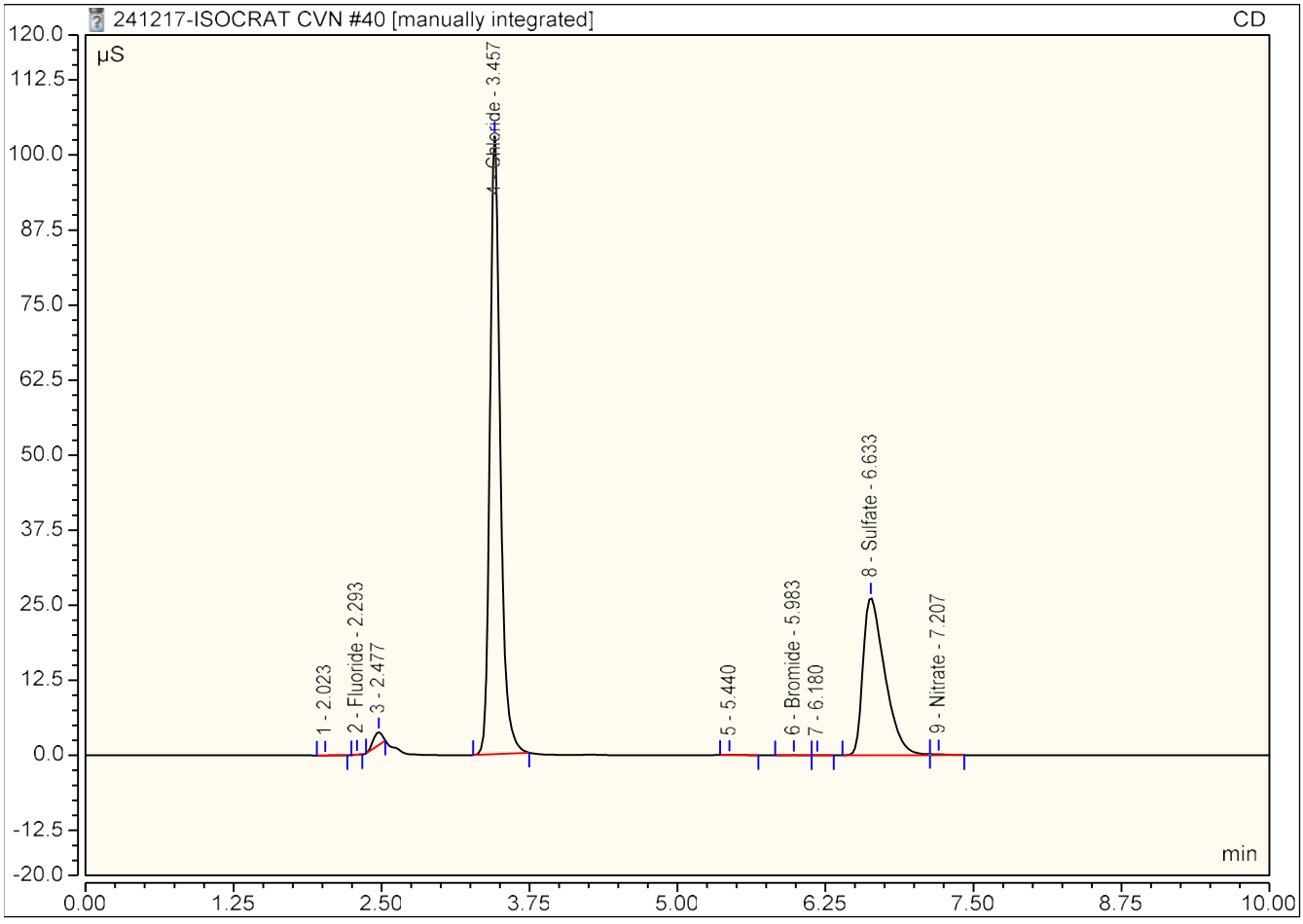
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.013	0.159	0.4673
3	3.46	**Chloride**	BMB	2.333	23.802	63.2976
5	6.74	**Sulfate**	BM *	0.305	1.674	12.7175
6	7.19	**Nitrate**	MB*	0.006	0.032	0.3221
TOTAL:				2.66	25.67	76.80



Peak Integration Report

Sample Name:	**L2473760-01 CL; 25X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**25.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 20:24**	*Run Time:*	**10.00**

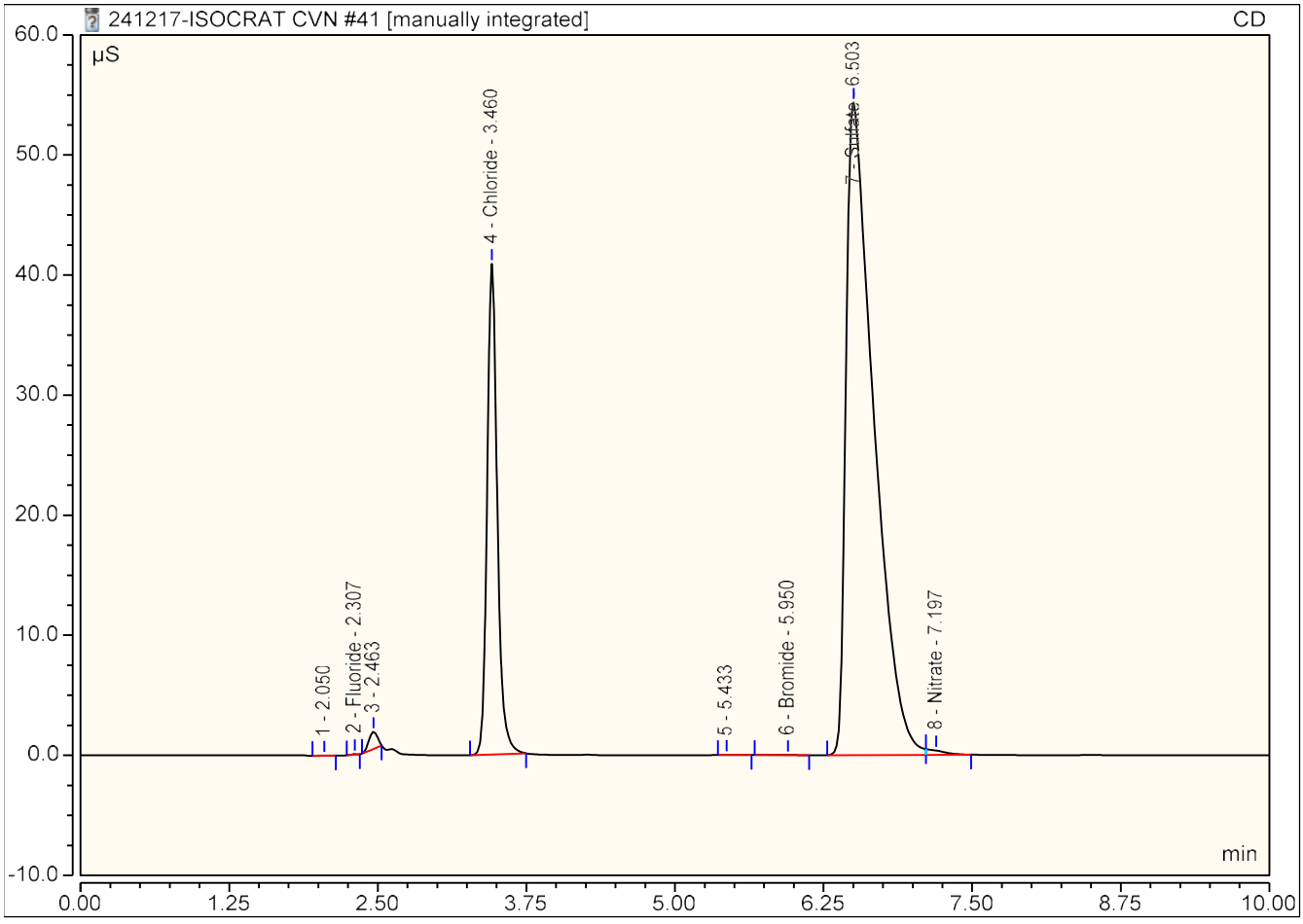
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.002	0.034	0.6116
4	3.46	**Chloride**	BMB	10.471	102.949	699.8810
6	5.98	**Bromide**	BMB	0.003	0.024	1.4183
8	6.63	**Sulfate**	BM *	5.618	26.263	498.7460
9	7.21	**Nitrate**	MB*	0.023	0.138	1.2693
TOTAL:				16.12	129.41	1201.93



Peak Integration Report

Sample Name:	**L2473760-02; 25X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**25.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 20:36**	*Run Time:*	**10.00**

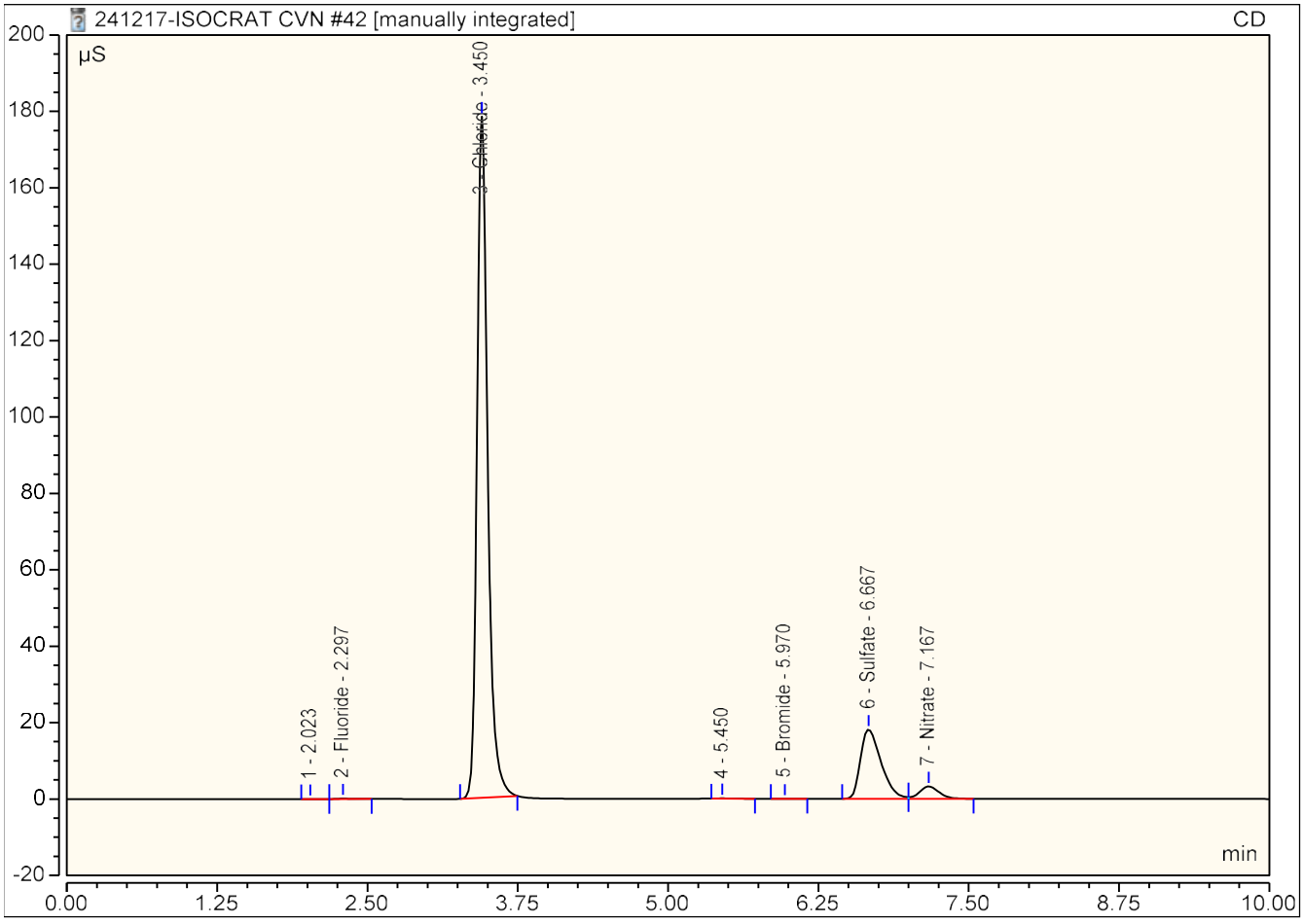
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.003	0.045	0.6666
4	3.46	**Chloride**	BMB	4.070	40.873	273.8057
6	5.95	**Bromide**	BMB	0.002	0.011	1.1997
7	6.50	**Sulfate**	BM *	14.659	54.347	1293.3927
8	7.20	**Nitrate**	MB*	0.071	0.362	2.5969
TOTAL:				18.80	95.64	1571.66



Peak Integration Report

Sample Name:	**L2473492-01 CL SO4**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 20:48**	*Run Time:*	**10.00**

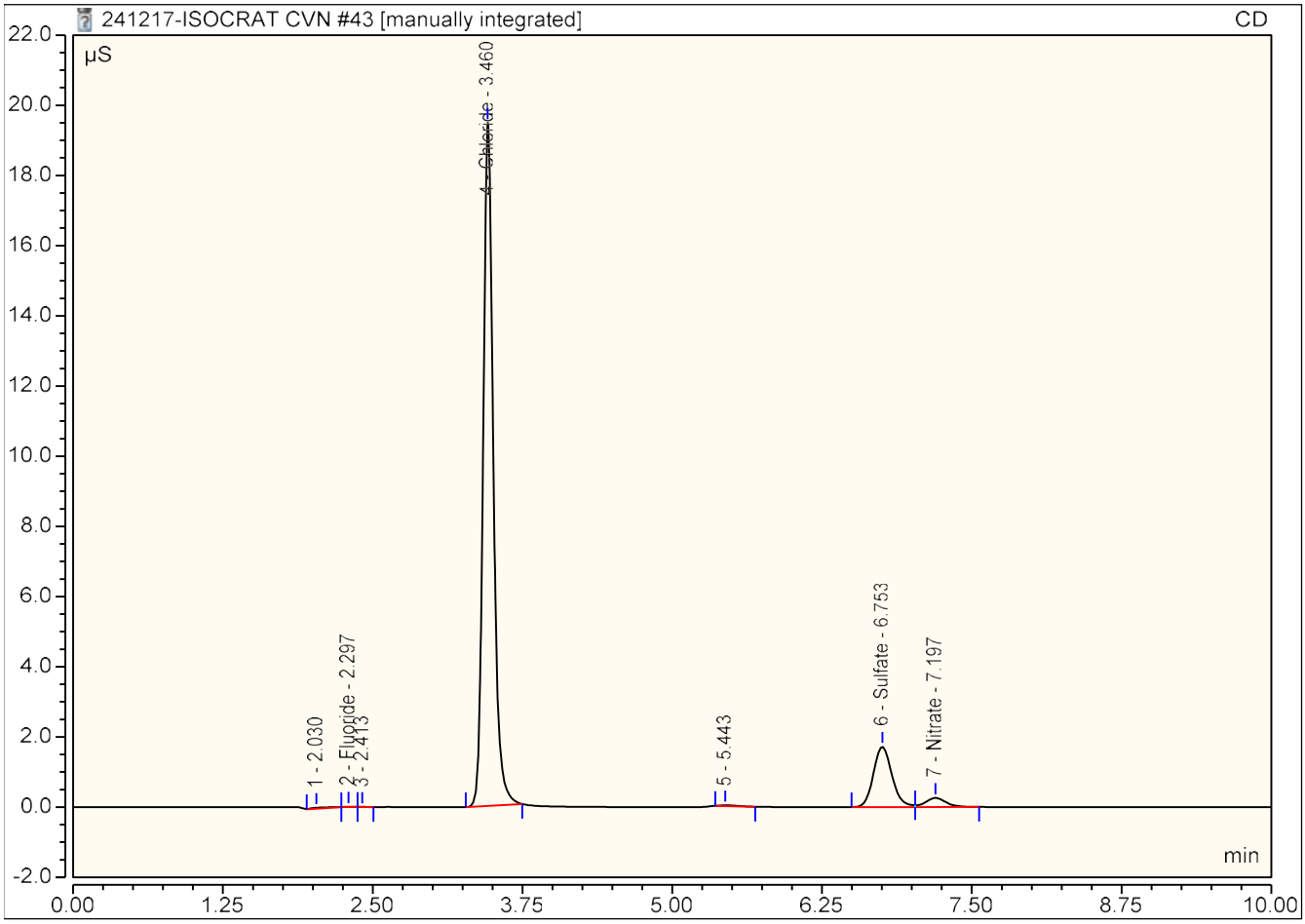
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.010	0.113	0.0400
3	3.45	**Chloride**	BMB	18.280	178.286	48.7855
5	5.97	**Bromide**	BMB	0.001	0.008	0.0387
6	6.67	**Sulfate**	BM *	3.606	18.130	12.8782
7	7.17	**Nitrate**	MB*	0.614	3.231	0.7063
TOTAL:				22.51	199.77	62.45



Peak Integration Report

Sample Name:	**XL2473492-01; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 21:00**	*Run Time:*	**10.00**

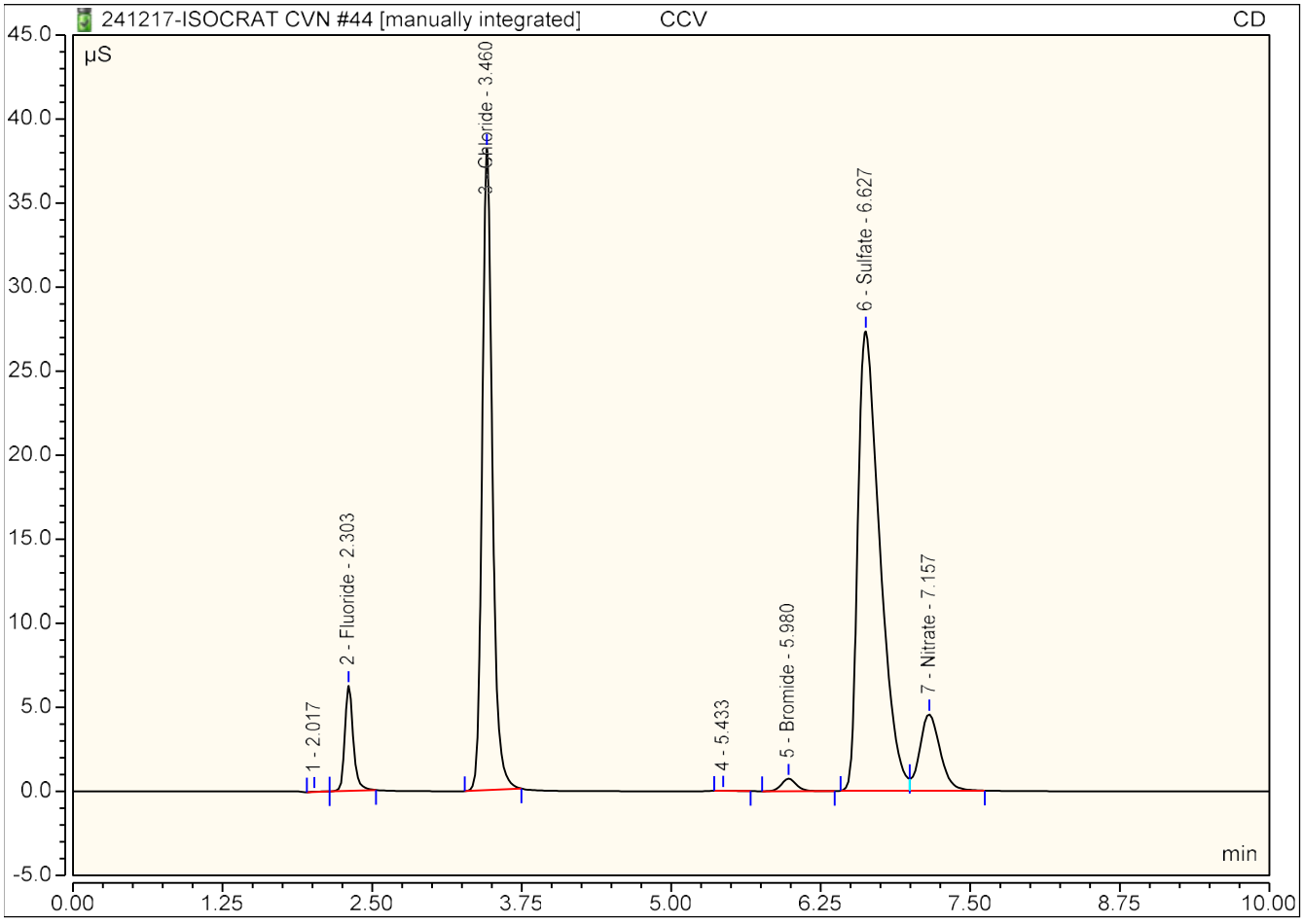
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.001	0.011	0.2294
4	3.46	**Chloride**	BMB	1.914	19.462	52.1435
6	6.75	**Sulfate**	BM *	0.308	1.721	12.8370
7	7.20	**Nitrate**	MB*	0.051	0.259	0.8175
TOTAL:				2.27	21.45	66.03



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:	**17-Dec-2024 / 21:12**	*Run Time:*	**10.00**

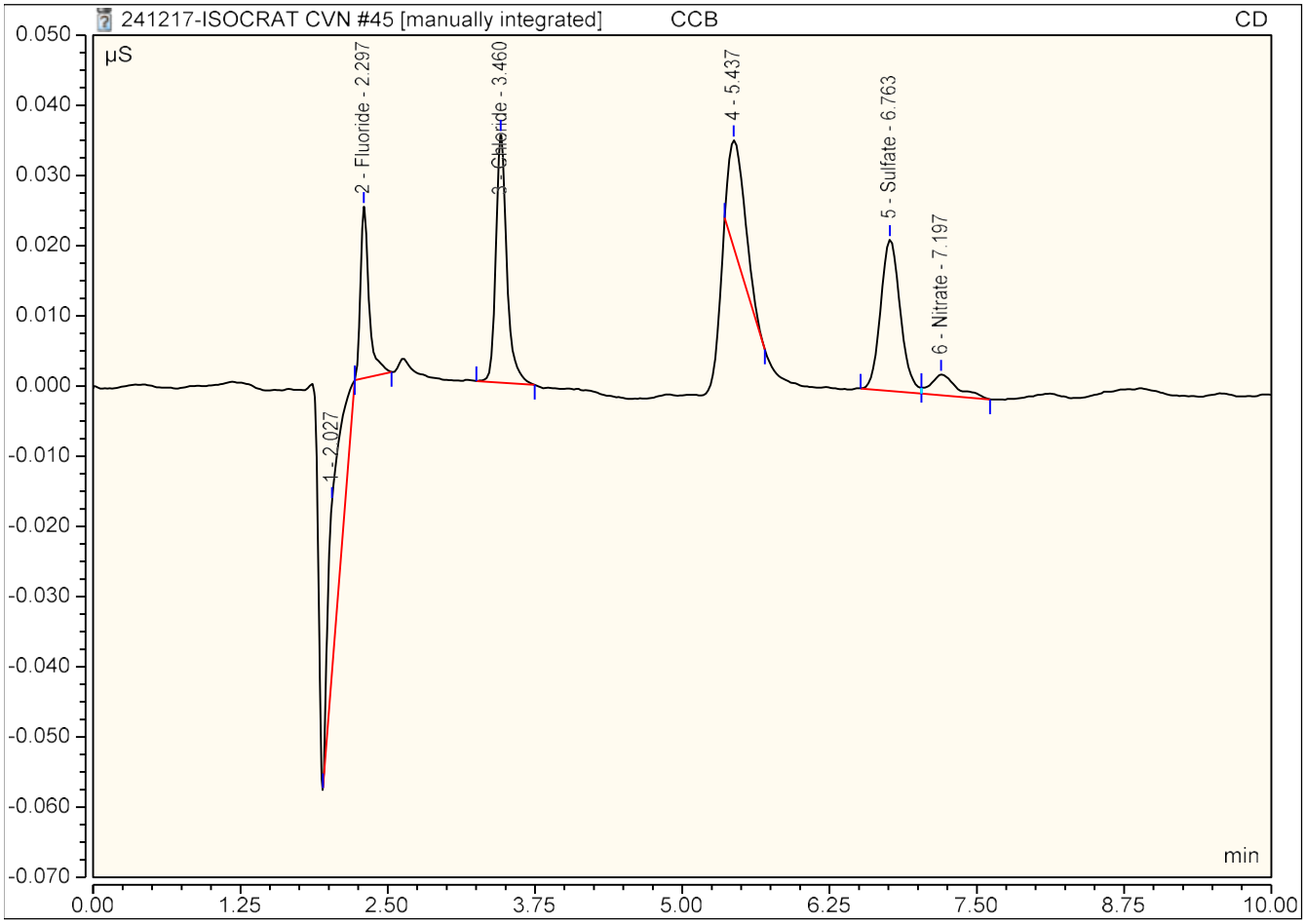
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.506	6.246	0.9824
3	3.46	**Chloride**	BMB	3.797	38.166	10.2259
5	5.98	**Bromide**	BMB	0.110	0.750	0.9725
6	6.63	**Sulfate**	BM *	5.826	27.335	20.6833
7	7.16	**Nitrate**	MB*	0.894	4.547	1.0163
TOTAL:				11.13	77.04	33.88



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:	**17-Dec-2024 / 21:24**	*Run Time:*	**10.00**

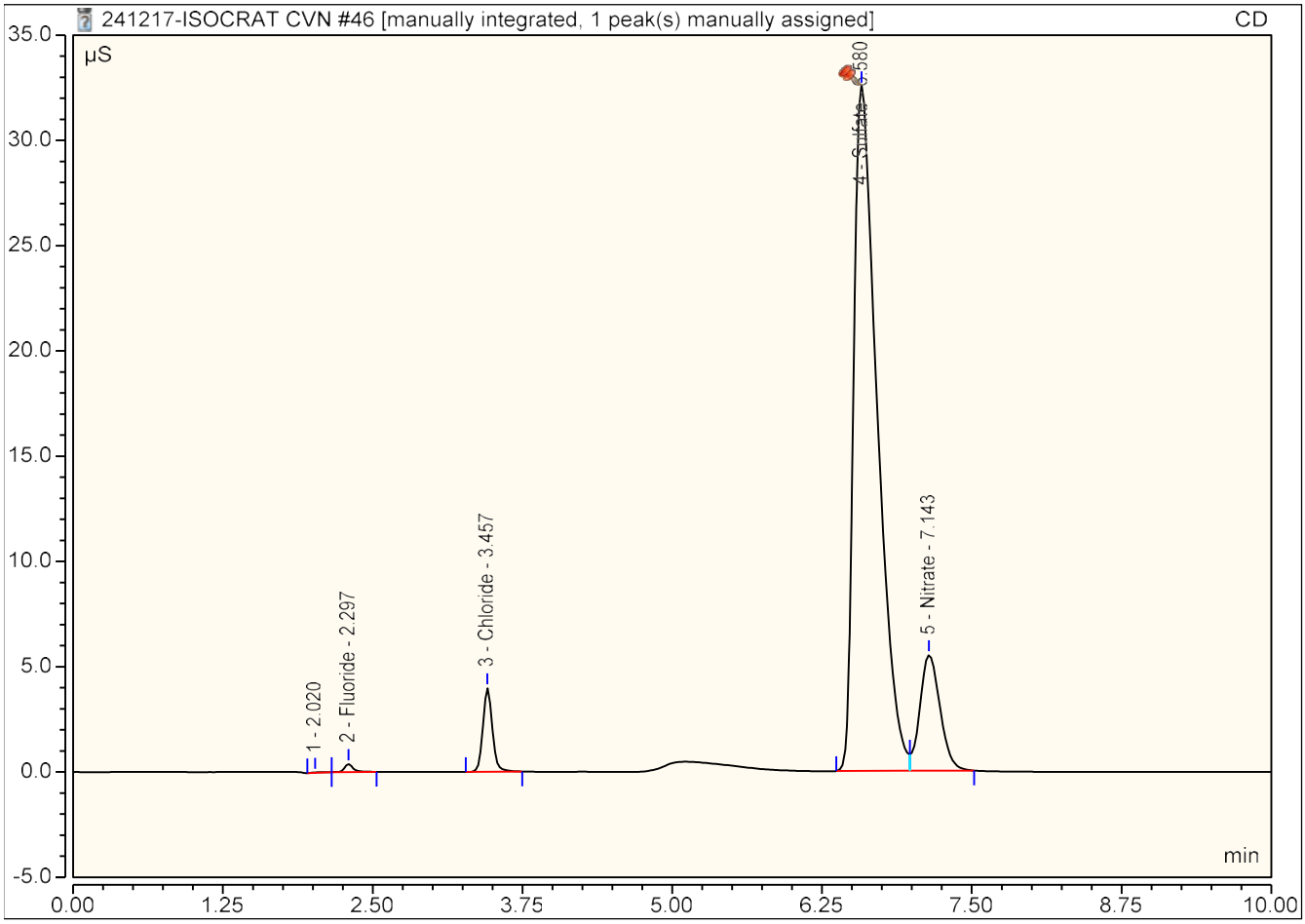
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.002	0.024	0.0255
3	3.46	**Chloride**	BMB	0.004	0.035	0.1277
5	6.76	**Sulfate**	BM *	0.004	0.022	0.2151
6	7.20	**Nitrate**	MB*	0.001	0.003	0.0261
TOTAL:				0.01	0.08	0.39



Peak Integration Report

Sample Name:	**L2473051-01 BR CL SO4**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 21:36**	*Run Time:*	**10.00**

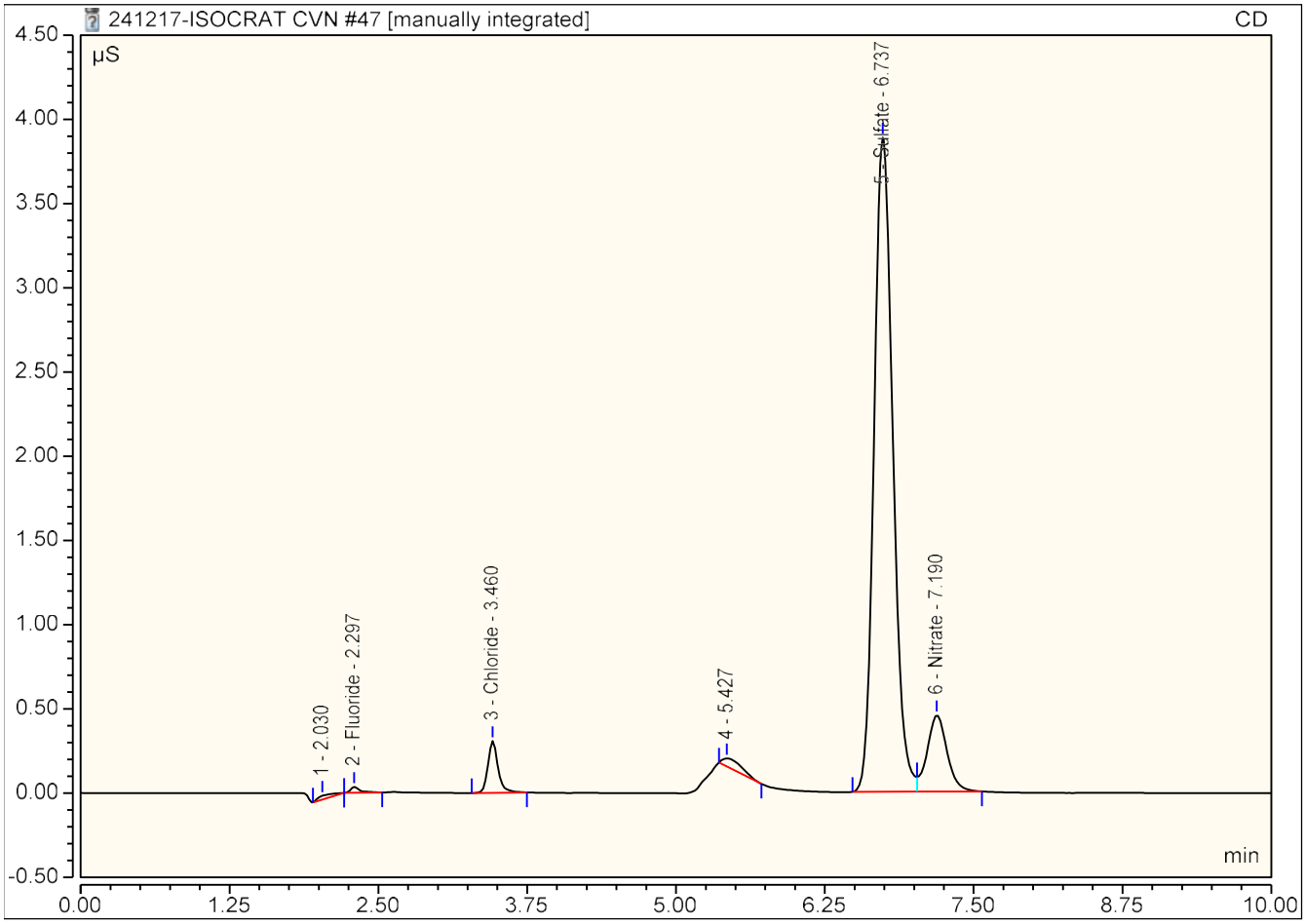
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.031	0.384	0.0805
3	3.46	**Chloride**	BMB	0.364	3.978	1.0872
4	6.58	**Sulfate**	BM *^	7.383	32.520	26.1550
5	7.14	**Nitrate**	MB*	1.069	5.494	1.2111
TOTAL:				8.85	42.38	28.53



Peak Integration Report

Sample Name:	**XL2473051-01; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 21:48**	*Run Time:*	**10.00**

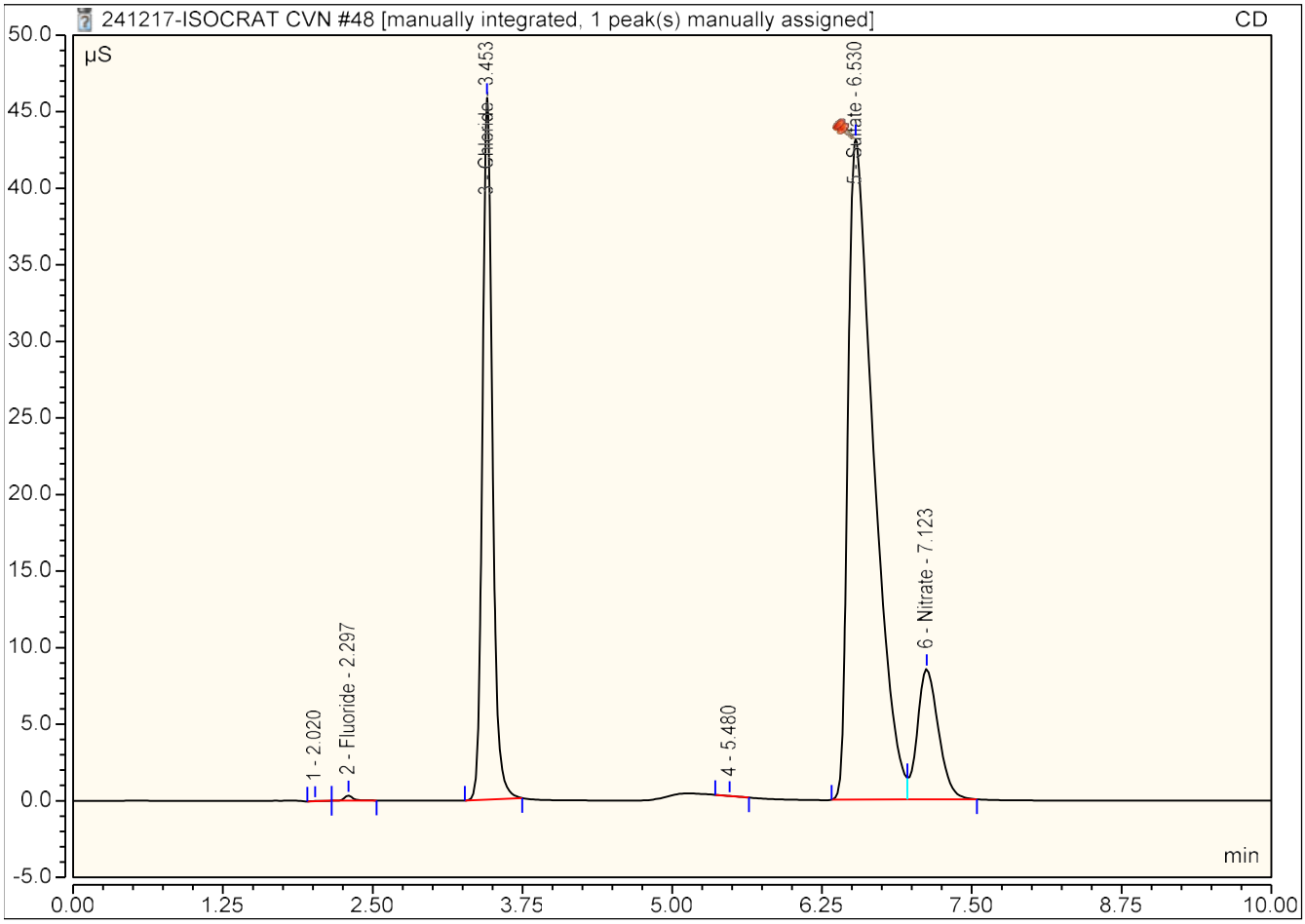
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.003	0.036	0.2778
3	3.46	**Chloride**	BMB	0.030	0.307	1.9856
5	6.74	**Sulfate**	BM *	0.706	3.884	26.8200
6	7.19	**Nitrate**	MB*	0.088	0.454	1.2278
TOTAL:				0.83	4.68	30.31



Peak Integration Report

Sample Name:	**L2473051-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 22:01**	*Run Time:*	**10.00**

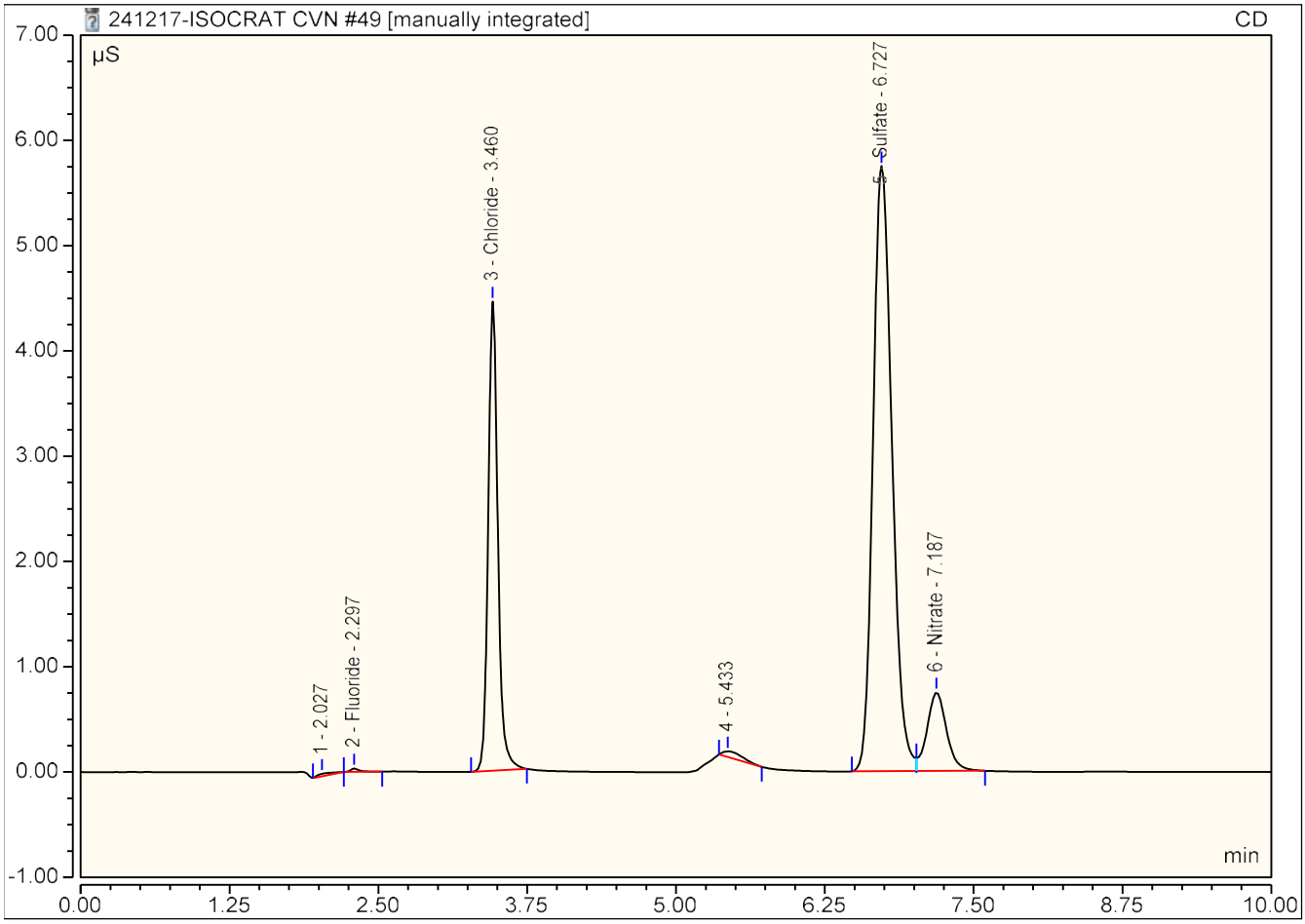
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.028	0.338	0.0746
3	3.45	**Chloride**	BMB	4.445	45.832	11.9519
5	6.53	**Sulfate**	BM *^	10.657	43.126	37.6670
6	7.12	**Nitrate**	MB*	1.737	8.513	1.9509
TOTAL:				16.87	97.81	51.64



Peak Integration Report

Sample Name:	**XL2473051-02; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 22:13**	*Run Time:*	**10.00**

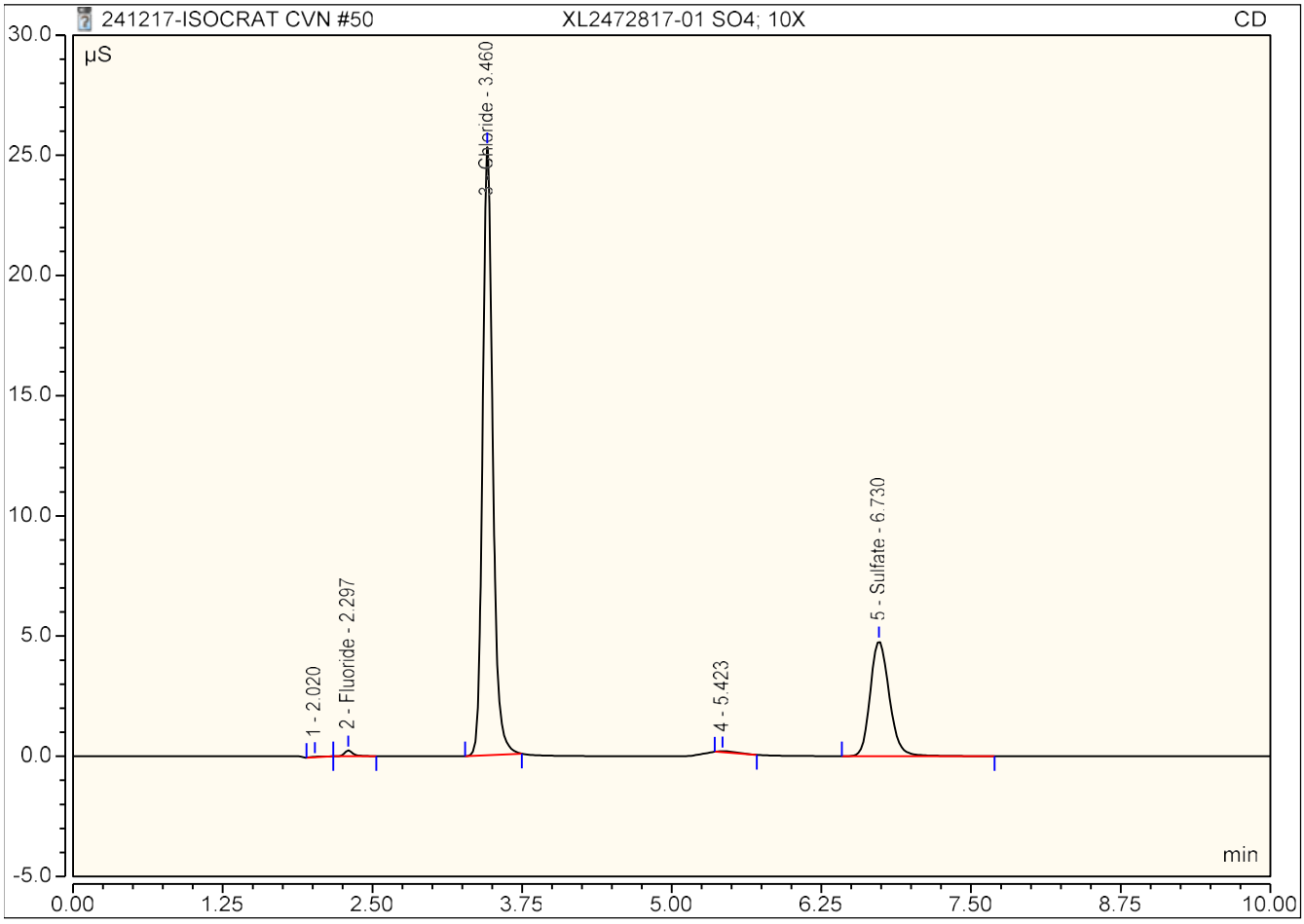
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.003	0.033	0.2708
3	3.46	**Chloride**	BMB	0.422	4.457	12.4052
5	6.73	**Sulfate**	BM *	1.053	5.745	39.0319
6	7.19	**Nitrate**	MB*	0.142	0.746	1.8268
TOTAL:				1.62	10.98	53.53



Peak Integration Report

Sample Name:	**XL2472817-01 SO4; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 22:25**	*Run Time:*	**10.00**

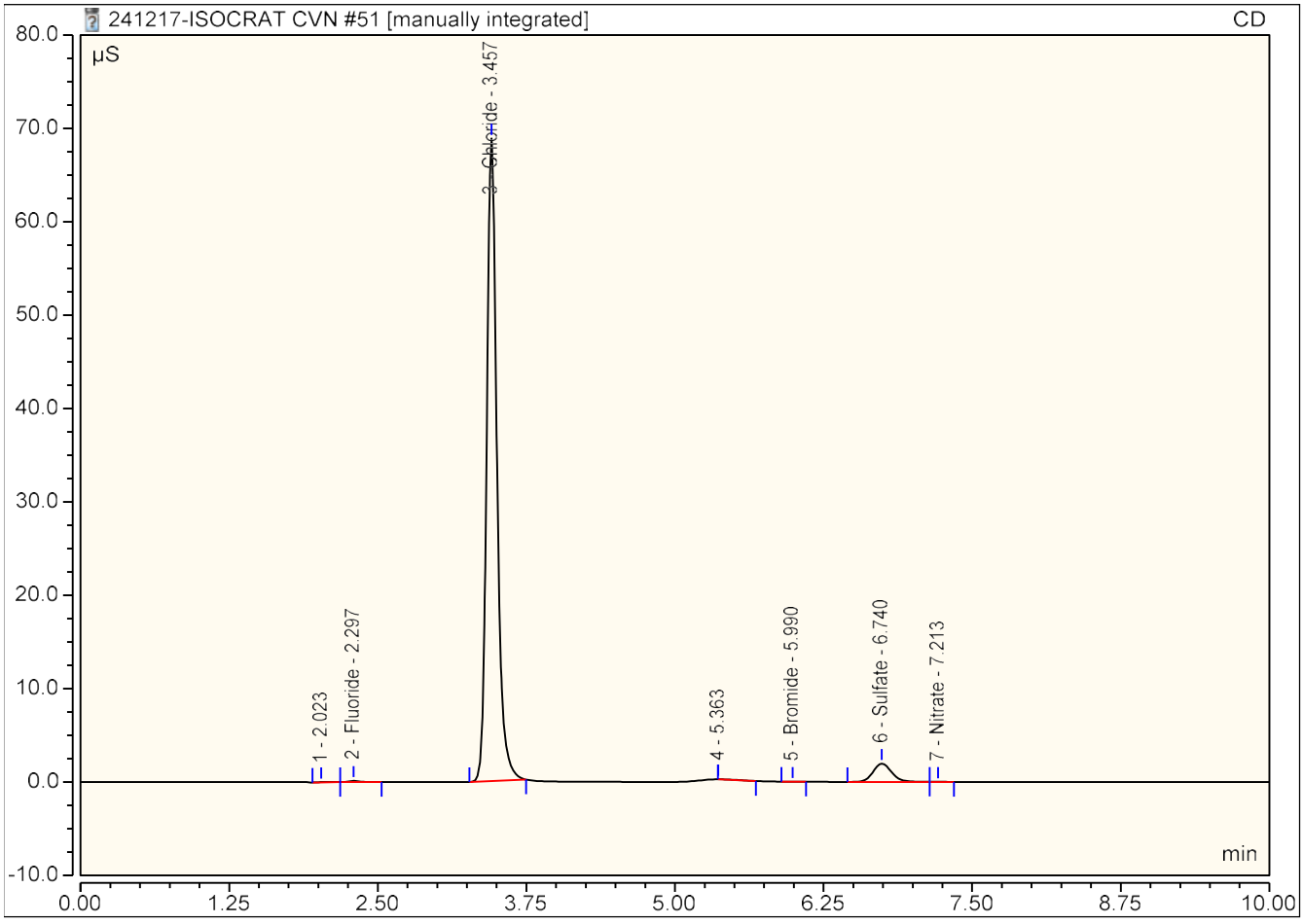
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.020	0.246	0.5978
3	3.46	**Chloride**	BMB	2.484	25.297	67.3034
5	6.73	**Sulfate**	BMB	0.884	4.781	33.0819
TOTAL:				3.39	30.32	100.98



Peak Integration Report

Sample Name:	**XL2472817-02; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 22:37**	*Run Time:*	**10.00**

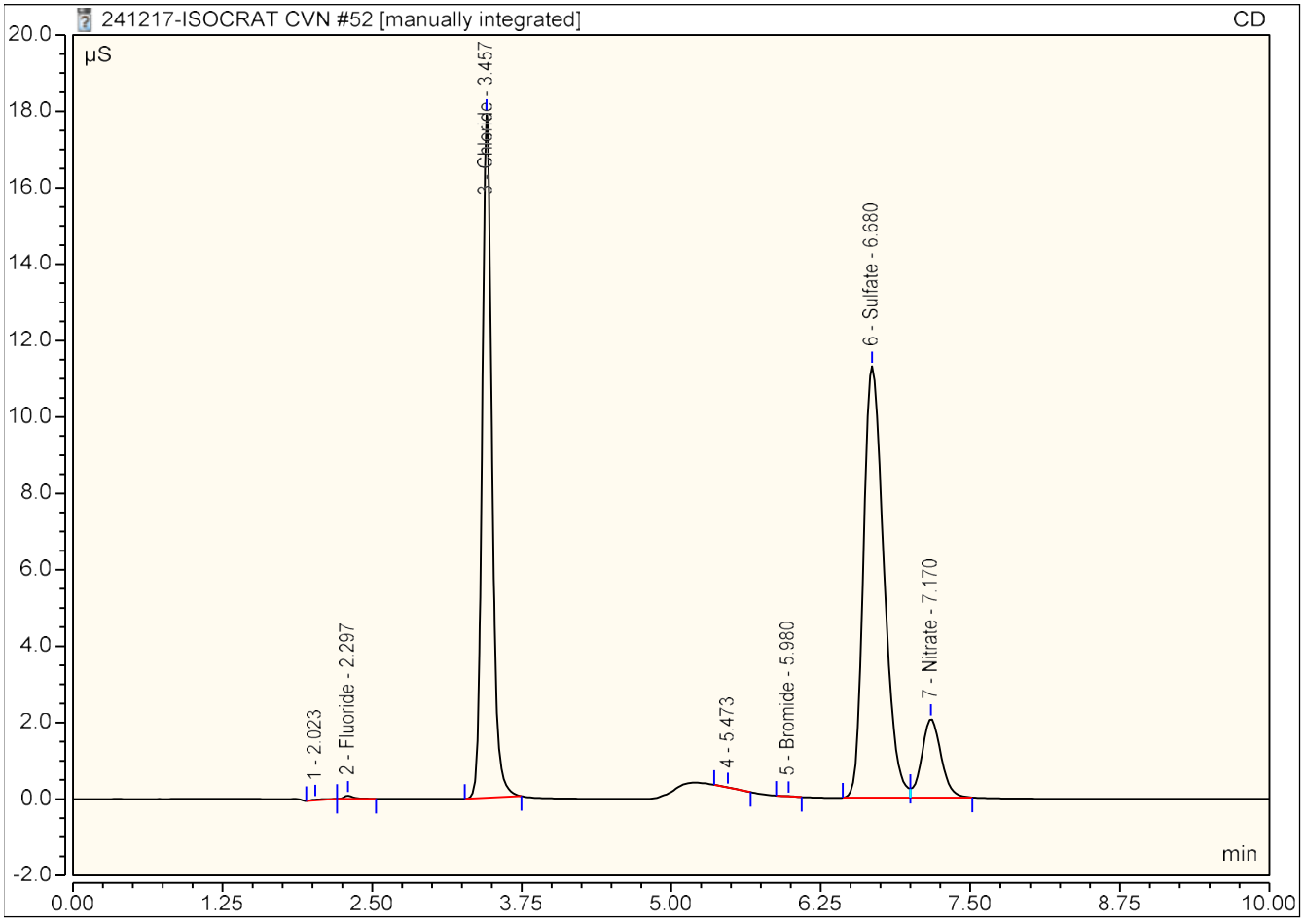
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.011	0.131	0.4243
3	3.46	**Chloride**	BMB	6.873	68.805	184.1711
5	5.99	**Bromide**	BMB	0.000	0.003	0.3199
6	6.74	**Sulfate**	BM *	0.358	1.965	14.5793
7	7.21	**Nitrate**	MB*	0.002	0.010	0.2691
TOTAL:				7.24	70.91	199.76



Peak Integration Report

Sample Name:	**L2473162-01 BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 22:49**	*Run Time:*	**10.00**

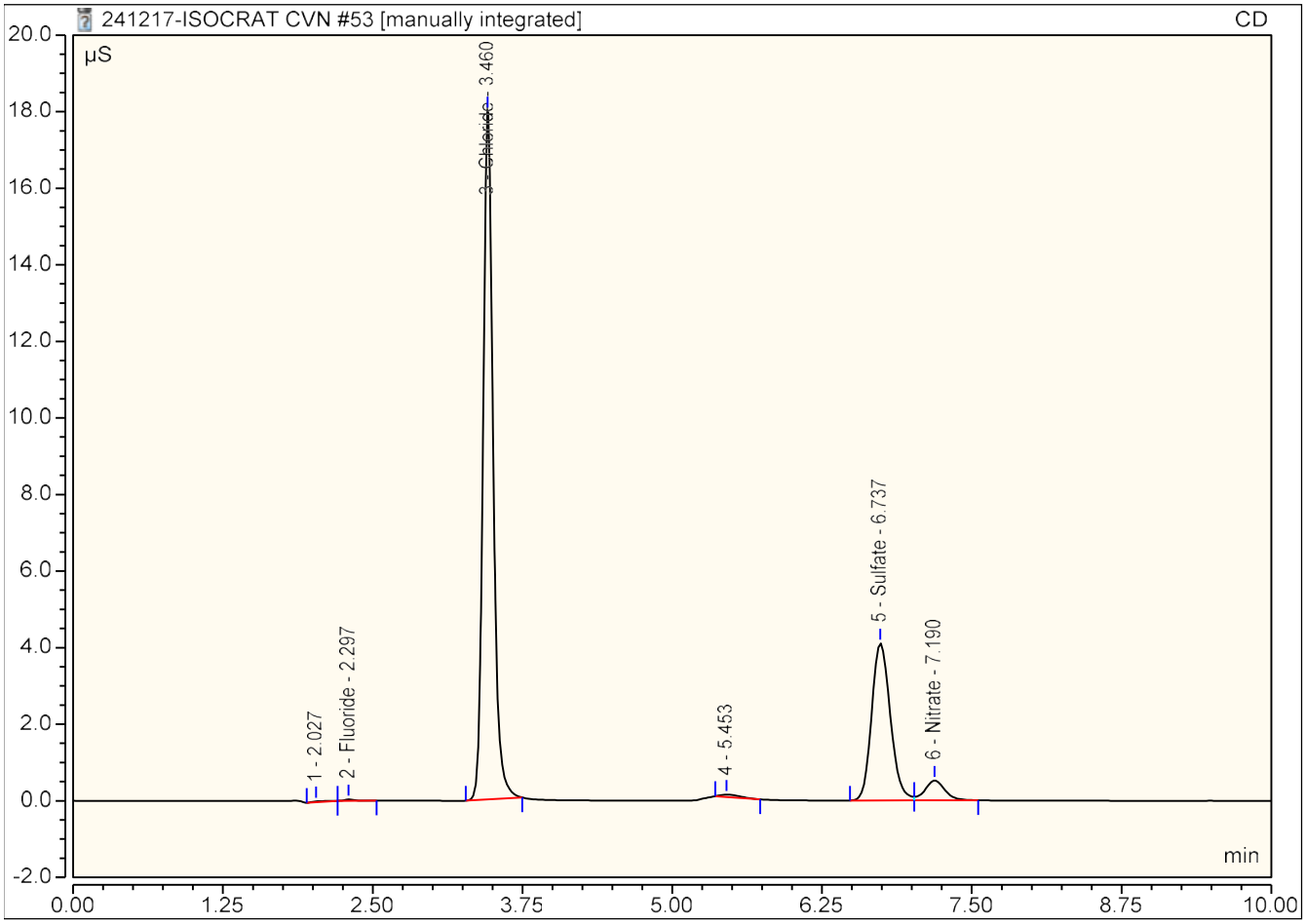
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.008	0.086	0.0363
3	3.46	**Chloride**	BMB	1.716	17.908	4.6868
5	5.98	**Bromide**	BMB	0.001	0.005	0.0345
6	6.68	**Sulfate**	BM *	2.223	11.290	8.0164
7	7.17	**Nitrate**	MB*	0.382	2.056	0.4493
TOTAL:				4.33	31.35	13.22



Peak Integration Report

Sample Name:	**L2473300-01 CL; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 23:01**	*Run Time:*	**10.00**

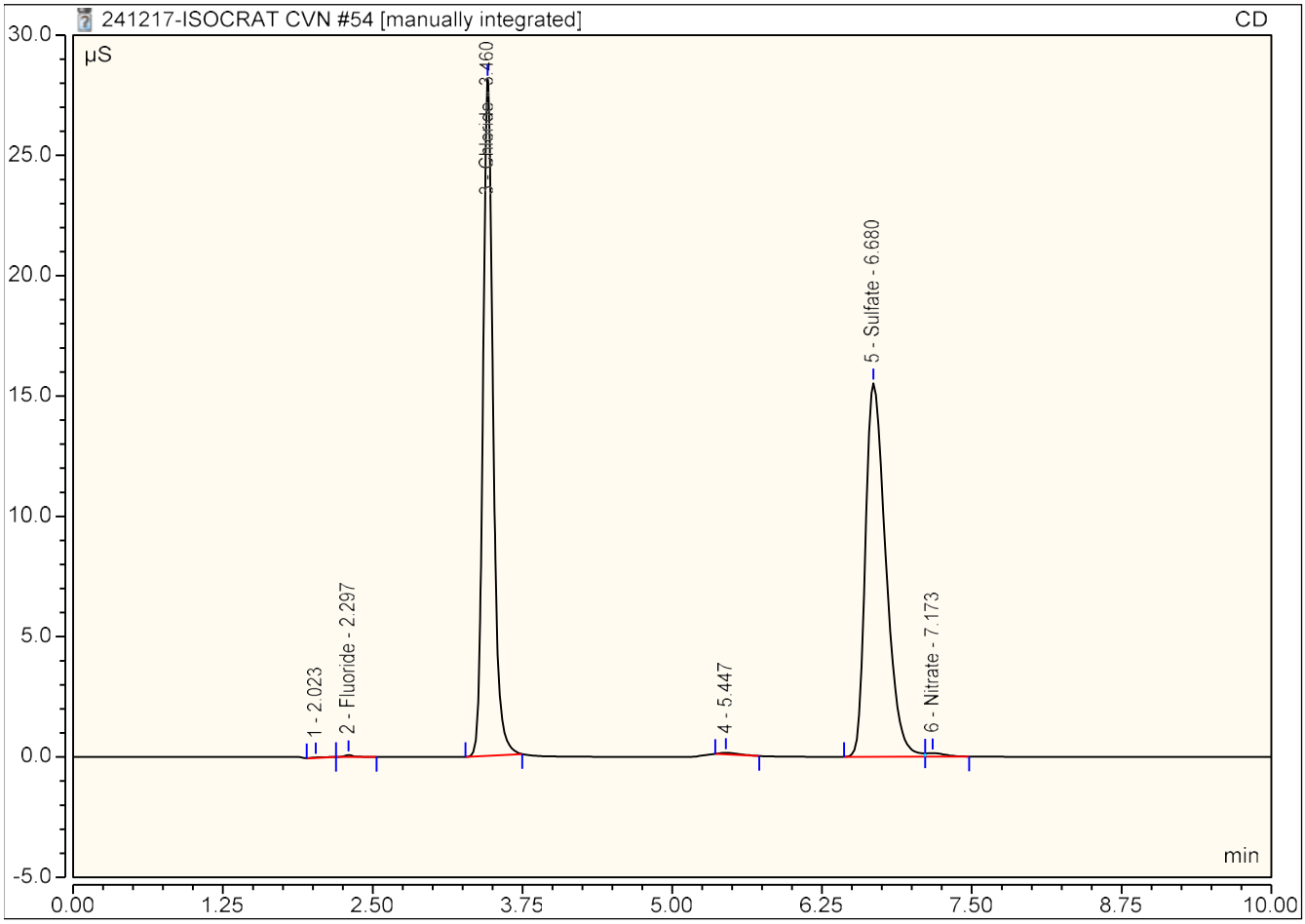
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.003	0.038	0.2780
3	3.46	**Chloride**	BMB	1.757	17.978	47.9414
5	6.74	**Sulfate**	BM *	0.742	4.104	28.0738
6	7.19	**Nitrate**	MB*	0.100	0.518	1.3564
TOTAL:				2.60	22.64	77.65



Peak Integration Report

Sample Name:	**L2473300-02; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 23:13**	*Run Time:*	**10.00**

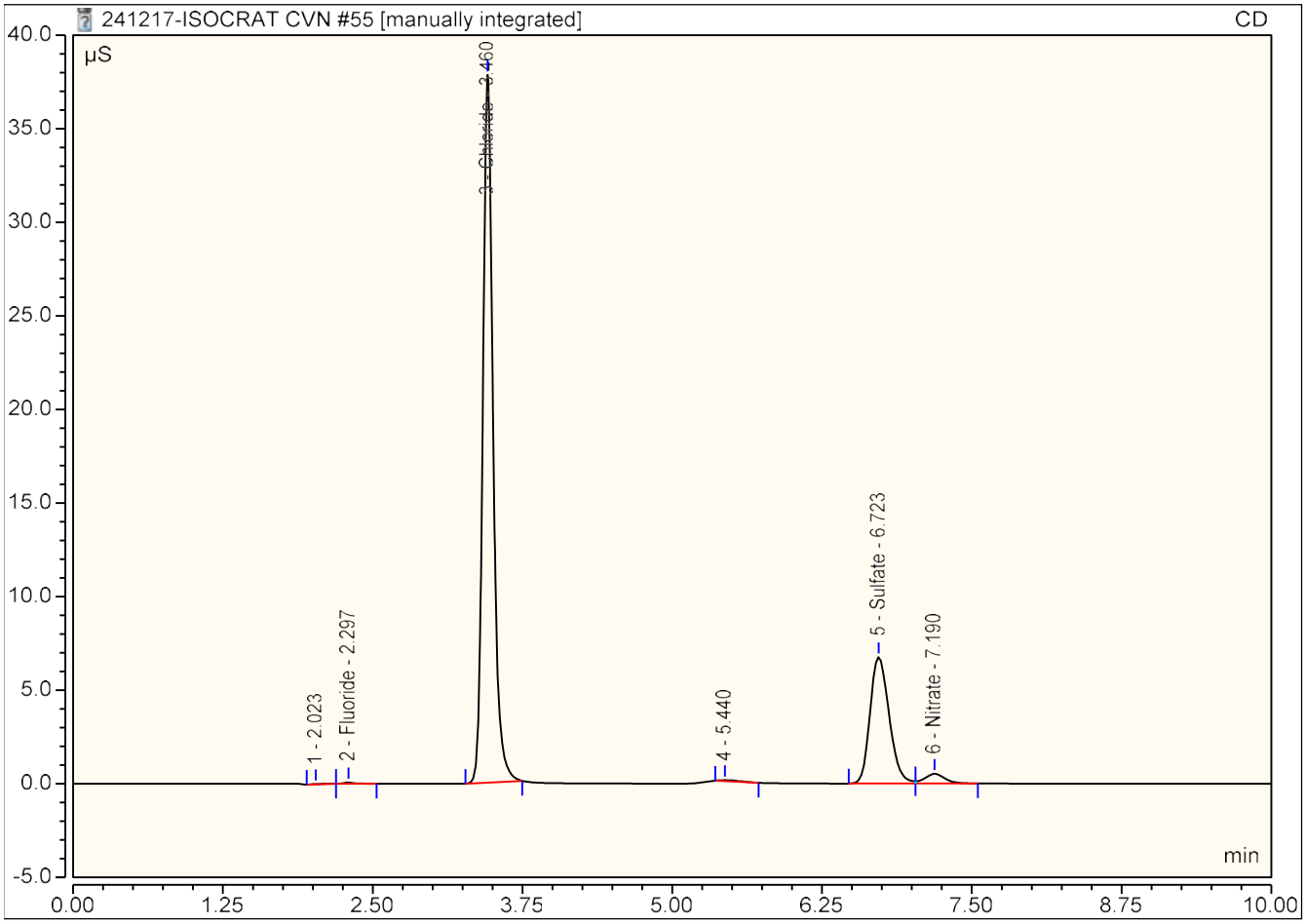
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.007	0.081	0.3453
3	3.46	**Chloride**	BMB	2.766	28.113	74.8163
5	6.68	**Sulfate**	BM *	3.050	15.517	109.2424
6	7.17	**Nitrate**	MB*	0.025	0.141	0.5347
TOTAL:				5.85	43.85	184.94



Peak Integration Report

Sample Name:	**L2473300-03; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**17-Dec-2024 / 23:25**	*Run Time:*	**10.00**

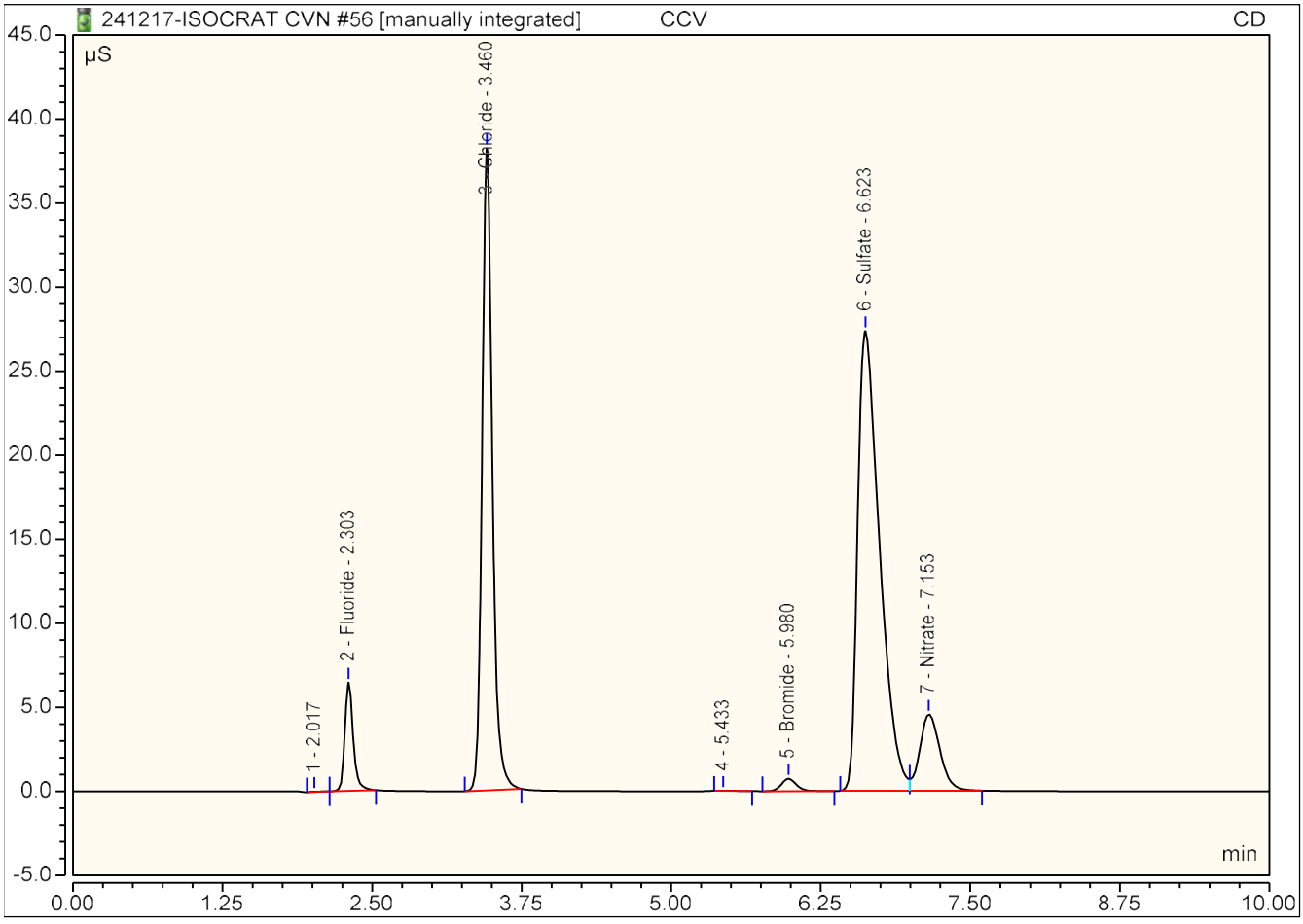
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.006	0.073	0.3341
3	3.46	**Chloride**	BMB	3.751	37.809	101.0405
5	6.72	**Sulfate**	BM *	1.247	6.756	45.8379
6	7.19	**Nitrate**	MB*	0.100	0.517	1.3631
TOTAL:				5.10	45.16	148.58



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:	**17-Dec-2024 / 23:37**	*Run Time:*	**10.00**

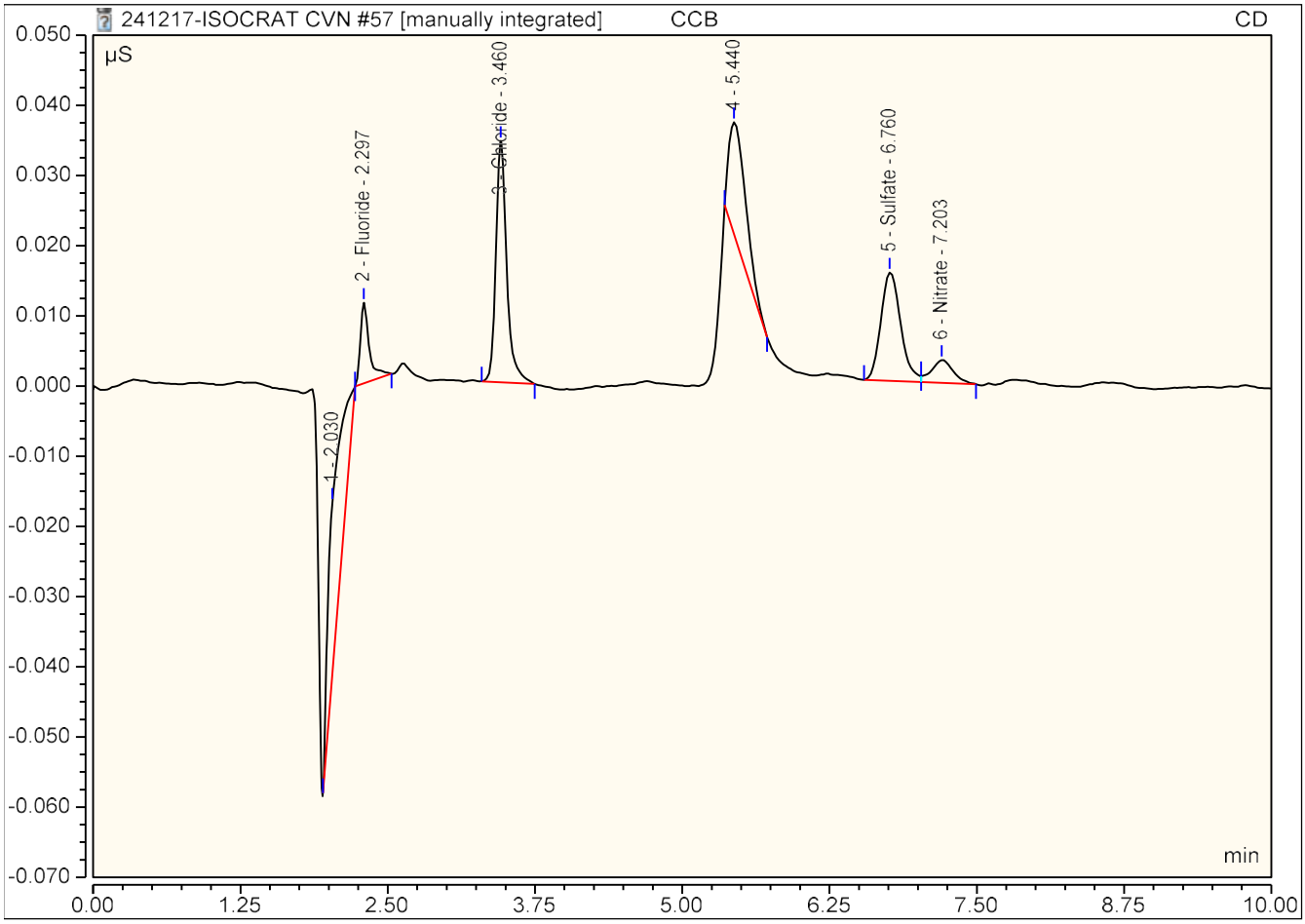
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.520	6.446	1.0085
3	3.46	**Chloride**	BMB	3.803	38.213	10.2439
5	5.98	**Bromide**	BMB	0.110	0.747	0.9693
6	6.62	**Sulfate**	BM *	5.819	27.350	20.6570
7	7.15	**Nitrate**	MB*	0.887	4.540	1.0082
TOTAL:				11.14	77.30	33.89



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:	**17-Dec-2024 / 23:49**	*Run Time:*	**10.00**

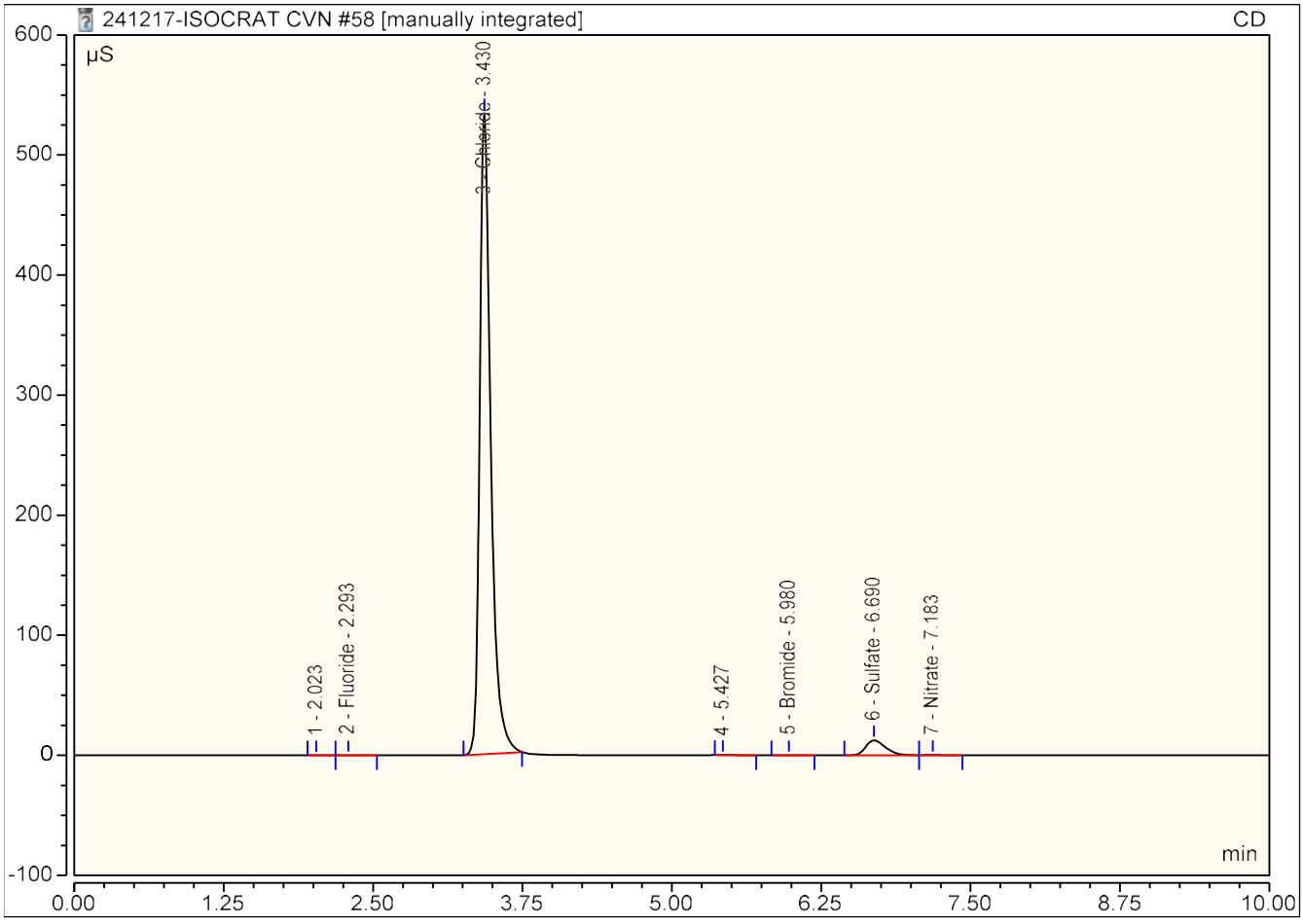
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.001	0.011	0.0235
3	3.46	**Chloride**	BMB	0.004	0.034	0.1273
5	6.76	**Sulfate**	BM *	0.003	0.015	0.2110
6	7.20	**Nitrate**	MB*	0.001	0.003	0.0260
TOTAL:				0.01	0.06	0.39



Peak Integration Report

Sample Name:	**XL2473300-04; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**18-Dec-2024 / 00:01**	*Run Time:*	**10.00**

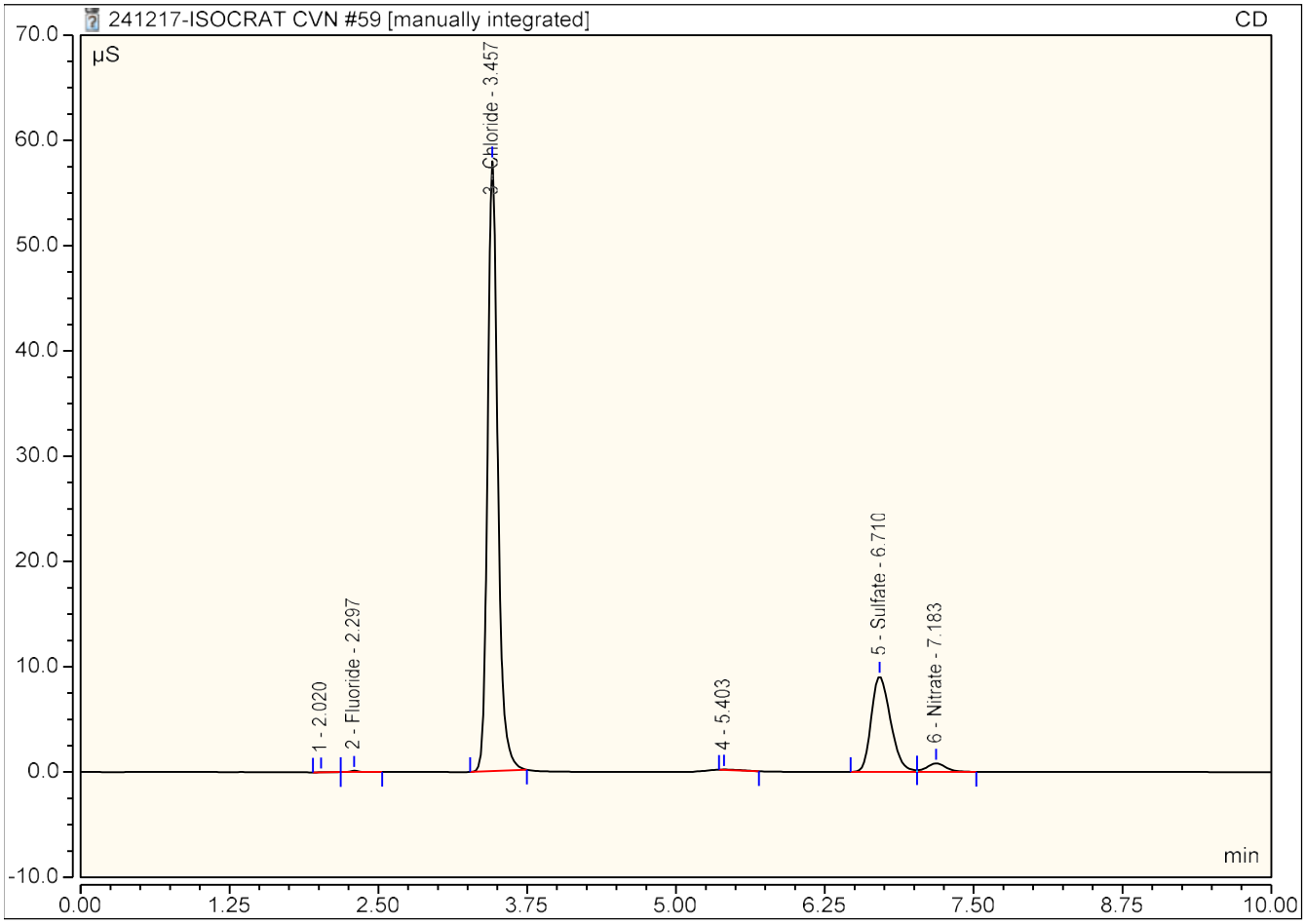
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.007	0.072	0.3407
3	3.43	**Chloride**	BMB	57.230	533.914	1524.8440
5	5.98	**Bromide**	BMB	0.006	0.045	0.8428
6	6.69	**Sulfate**	BM *	2.409	12.470	86.6920
7	7.18	**Nitrate**	MB*	0.040	0.203	0.6933
TOTAL:				59.69	546.70	1613.41



Peak Integration Report

Sample Name:	**XL2473300-05; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**18-Dec-2024 / 00:13**	*Run Time:*	**10.00**

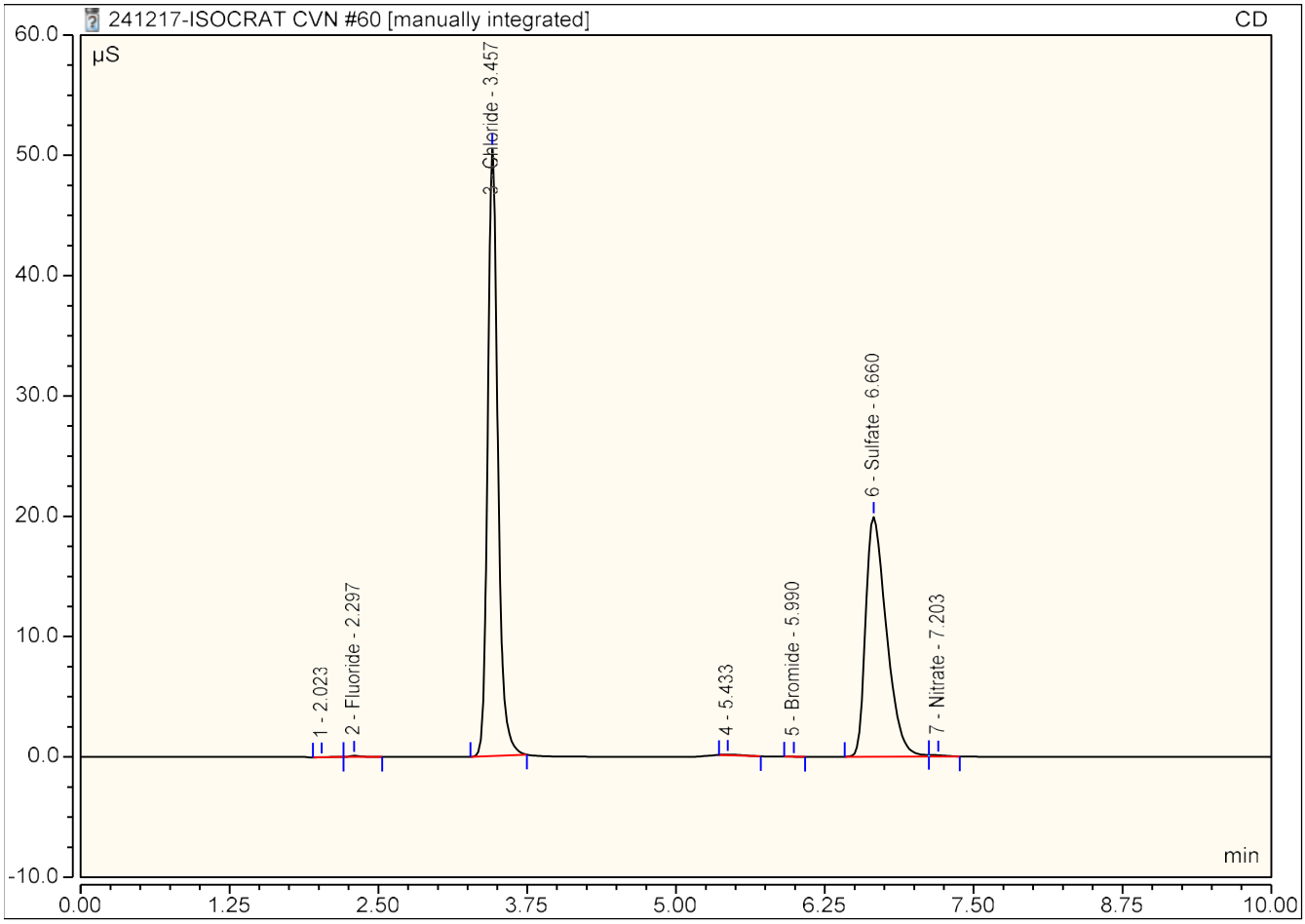
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.011	0.127	0.4189
3	3.46	**Chloride**	BMB	5.780	57.948	155.0527
5	6.71	**Sulfate**	BM *	1.701	9.059	61.7931
6	7.18	**Nitrate**	MB*	0.153	0.808	1.9482
TOTAL:				7.64	67.94	219.21



Peak Integration Report

Sample Name:	**L2473300-06; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**18-Dec-2024 / 00:26**	*Run Time:*	**10.00**

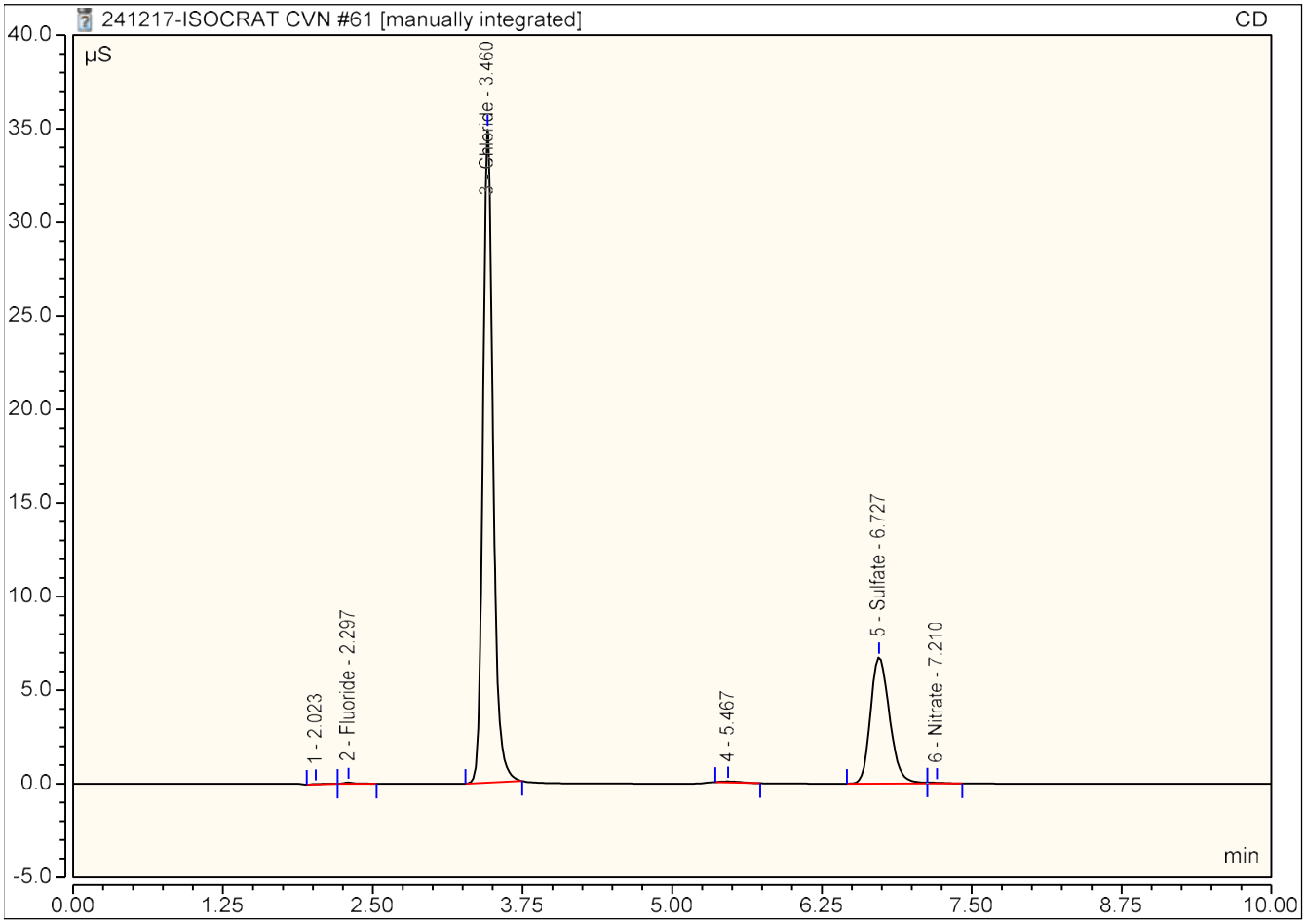
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.009	0.111	0.3950
3	3.46	**Chloride**	BMB	5.033	50.513	135.1744
5	5.99	**Bromide**	BMB	0.000	0.001	0.3021
6	6.66	**Sulfate**	BM *	4.049	19.936	144.3571
7	7.20	**Nitrate**	MB*	0.018	0.109	0.4532
TOTAL:				9.11	70.67	280.68



Peak Integration Report

Sample Name:	**L2473300-07; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**18-Dec-2024 / 00:38**	*Run Time:*	**10.00**

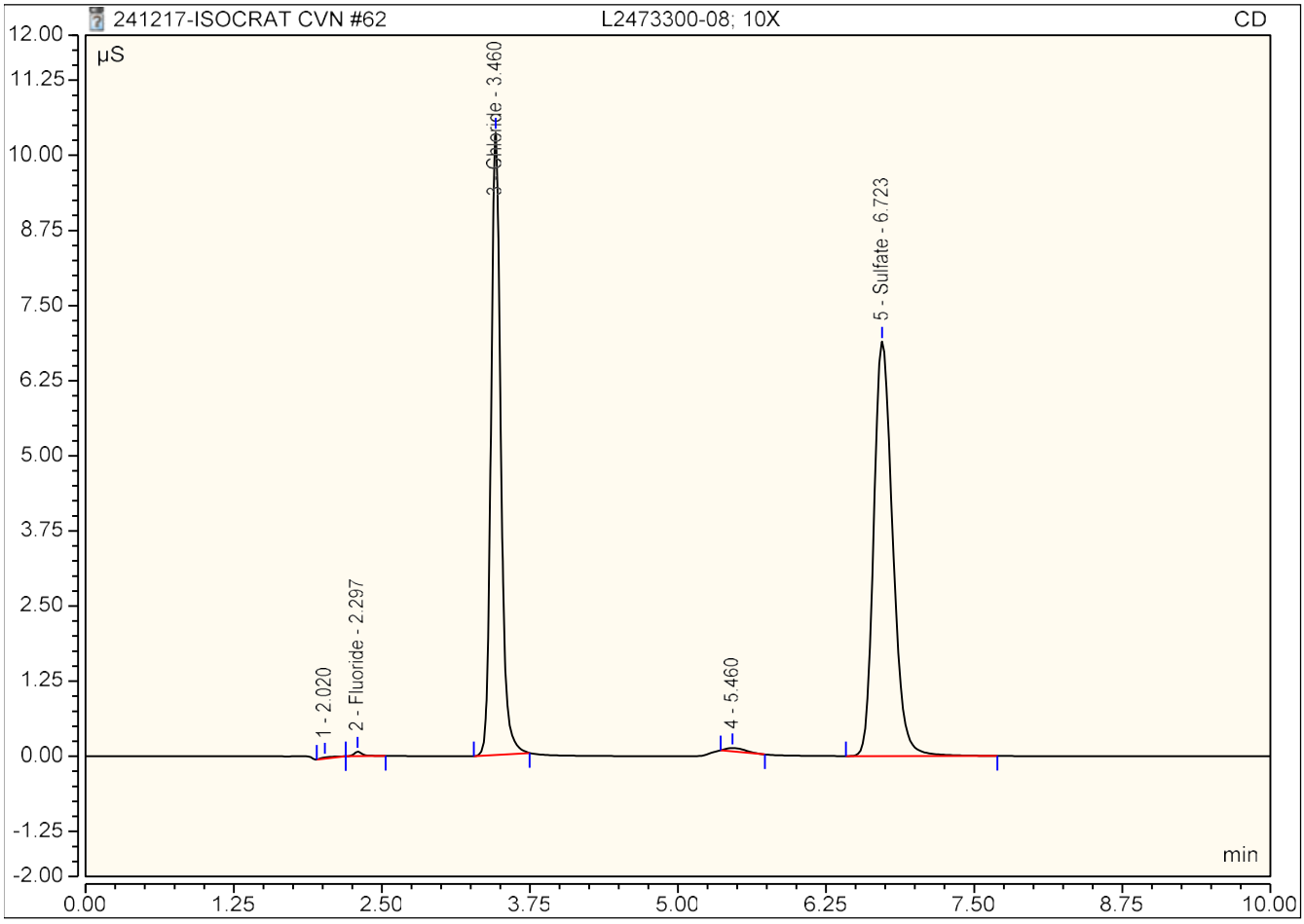
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.006	0.068	0.3266
3	3.46	**Chloride**	BMB	3.456	34.896	93.1942
5	6.73	**Sulfate**	BM *	1.246	6.748	45.8163
6	7.21	**Nitrate**	MB*	0.007	0.042	0.3340
TOTAL:				4.72	41.75	139.67



Peak Integration Report

Sample Name:	**L2473300-08; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**18-Dec-2024 / 00:50**	*Run Time:*	**10.00**

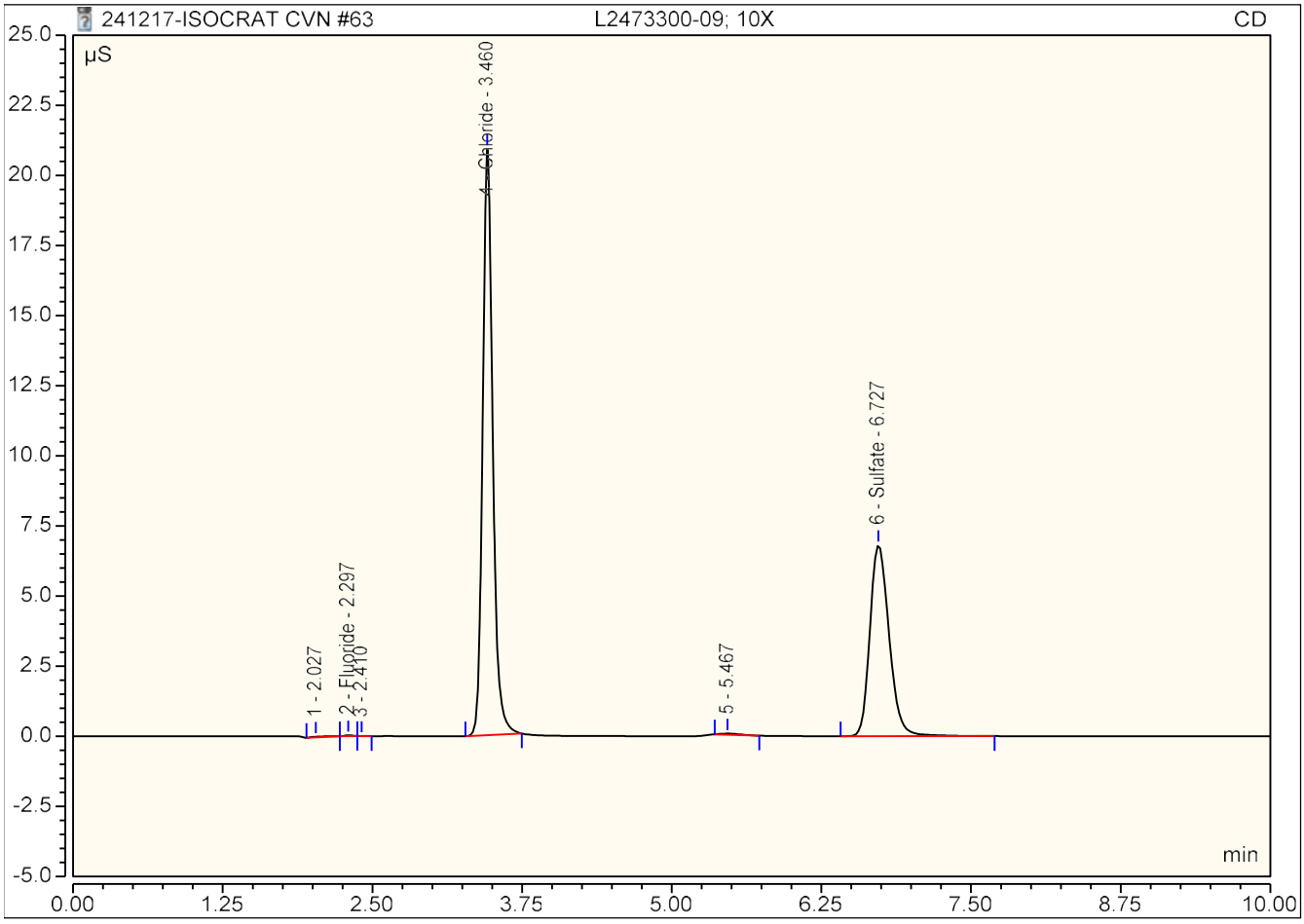
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.006	0.077	0.3394
3	3.46	**Chloride**	BMB	0.996	10.357	27.6833
5	6.72	**Sulfate**	BMB	1.281	6.896	47.0538
TOTAL:				2.28	17.33	75.08



Peak Integration Report

Sample Name:	**L2473300-09; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**18-Dec-2024 / 01:02**	*Run Time:*	**10.00**

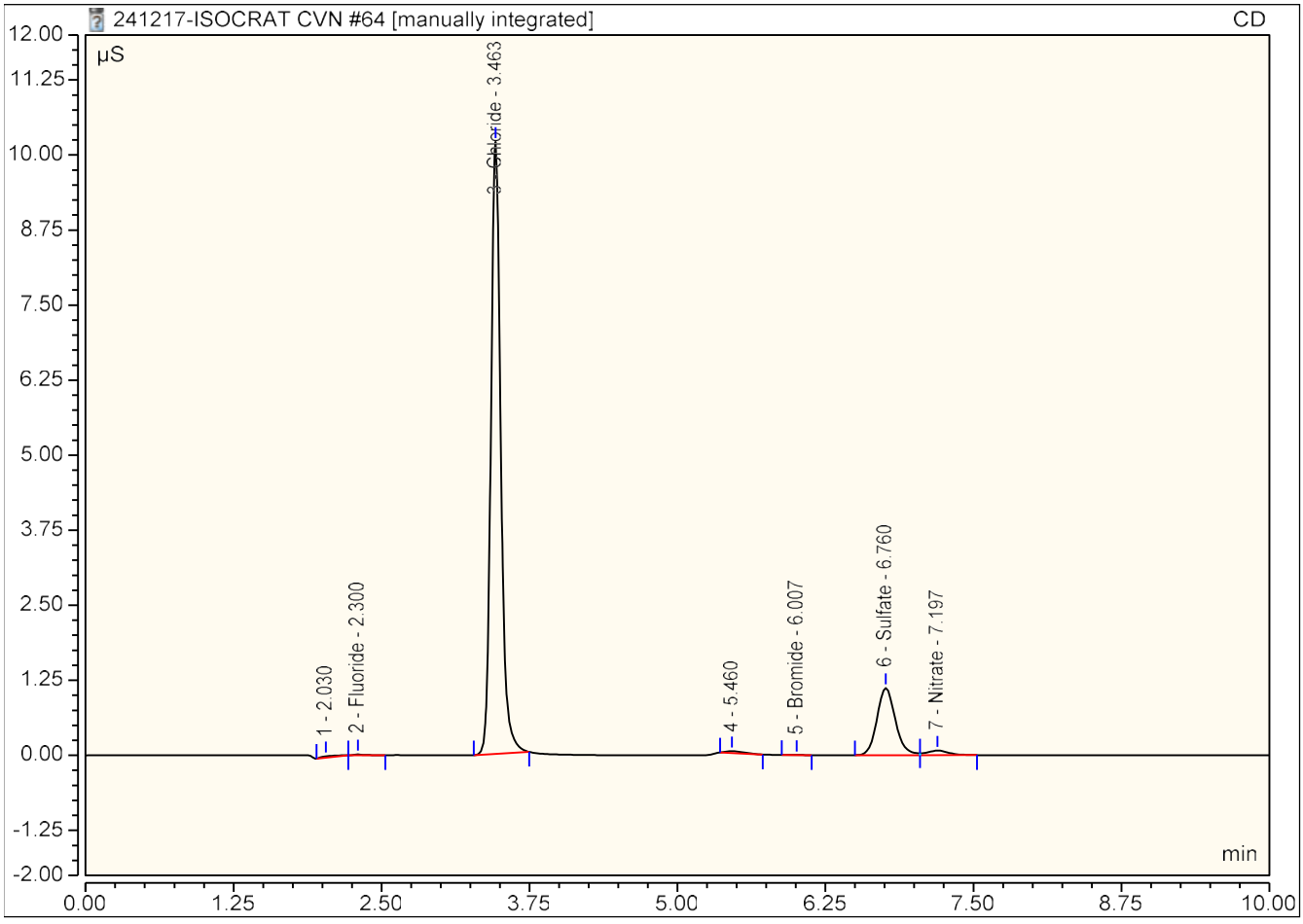
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.002	0.031	0.2540
4	3.46	**Chloride**	BMB	2.047	20.904	55.6817
6	6.73	**Sulfate**	BMB	1.268	6.814	46.5939
TOTAL:				3.32	27.75	102.53



Peak Integration Report

Sample Name:	**L2473642-01 CL; 25X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**25.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**18-Dec-2024 / 01:14**	*Run Time:*	**10.00**

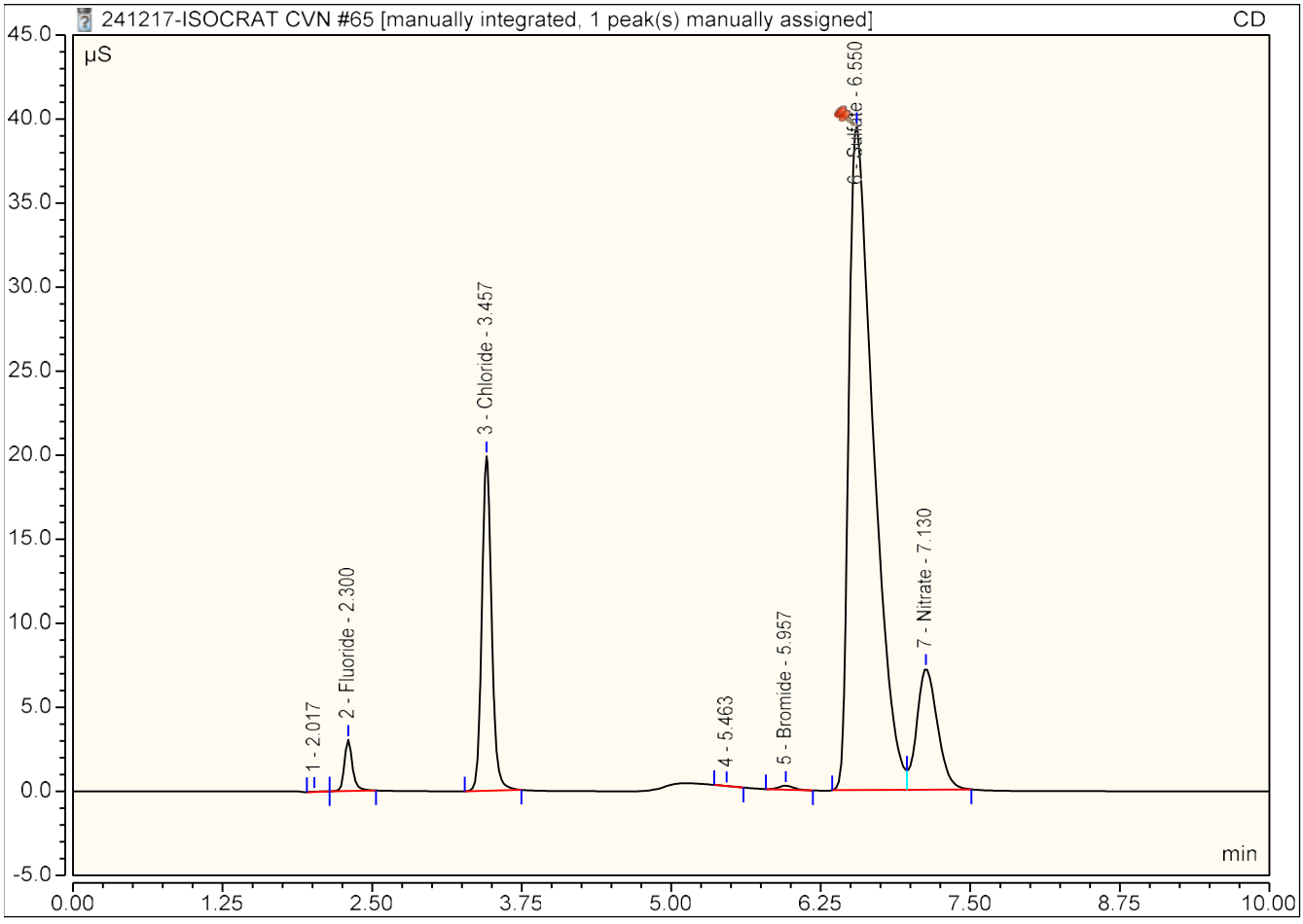
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.001	0.016	0.6097
3	3.46	**Chloride**	BMB	0.986	10.199	68.5862
5	6.01	**Bromide**	BMB	0.000	0.001	0.7574
6	6.76	**Sulfate**	BM *	0.202	1.120	22.7289
7	7.20	**Nitrate**	MB*	0.016	0.076	1.0690
TOTAL:				1.21	11.41	93.75



Peak Integration Report

Sample Name:	**L2473051-01 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**18-Dec-2024 / 01:26**	*Run Time:*	**10.00**

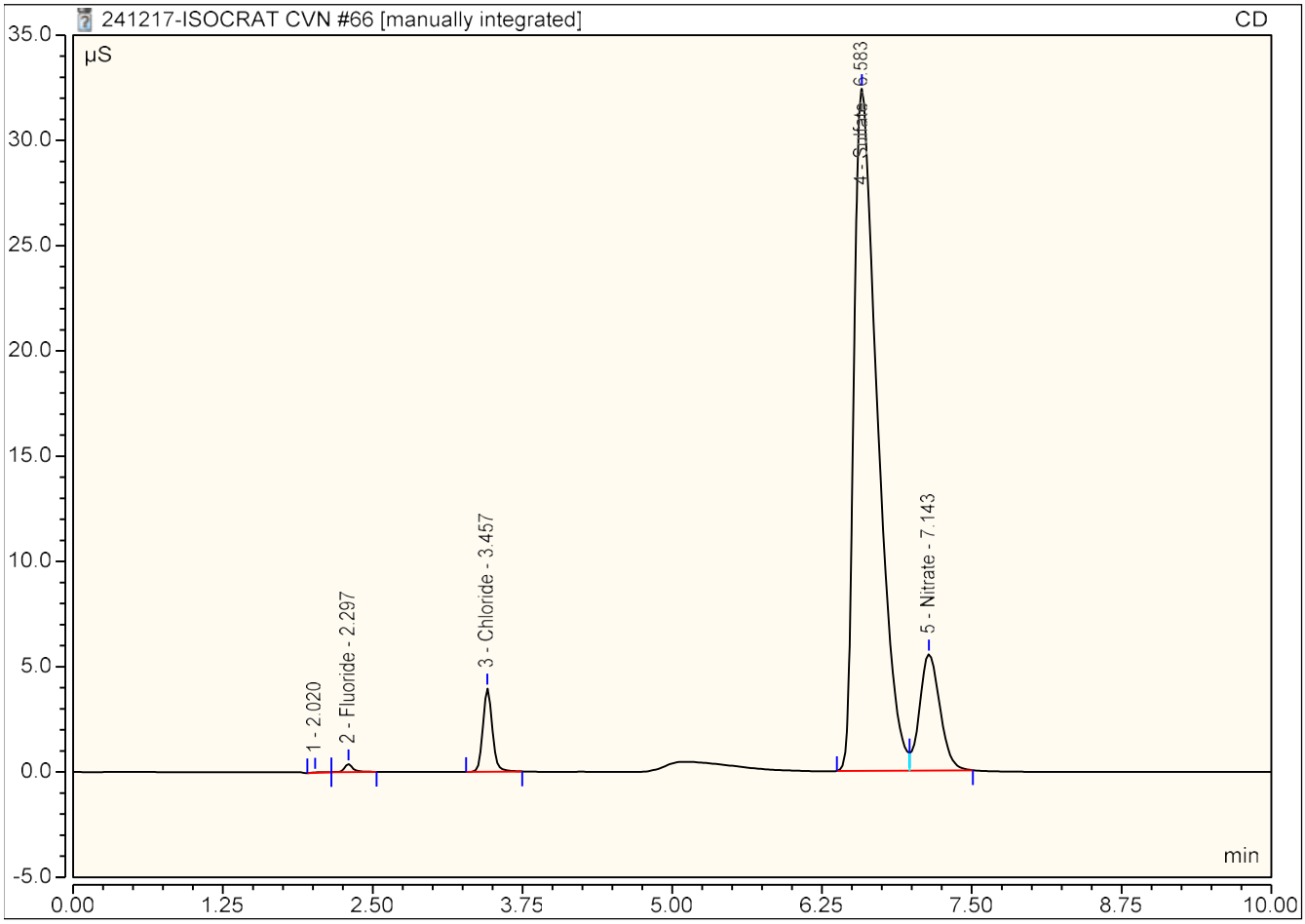
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.238	3.045	0.4740
3	3.46	**Chloride**	BMB	1.880	19.902	5.1229
5	5.96	**Bromide**	BMB	0.034	0.238	0.3208
6	6.55	**Sulfate**	BM *^	9.434	39.460	33.3672
7	7.13	**Nitrate**	MB*	1.441	7.199	1.6234
TOTAL:				13.03	69.84	40.91



Peak Integration Report

Sample Name:	**L2473051-01 DUP**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**18-Dec-2024 / 01:38**	*Run Time:*	**10.00**

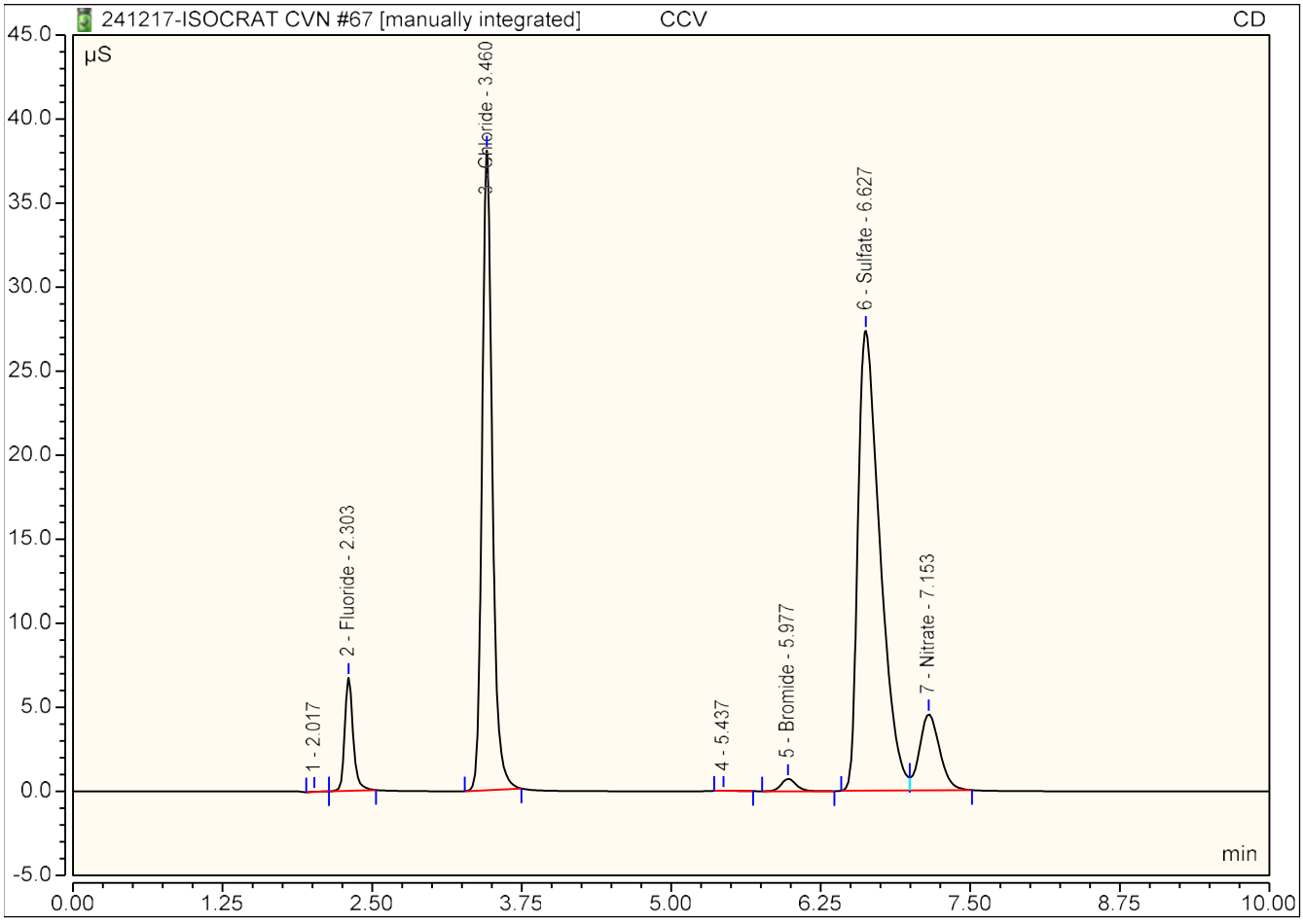
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.030	0.373	0.0786
3	3.46	**Chloride**	BMB	0.362	3.962	1.0804
4	6.58	**Sulfate**	BM *	7.338	32.395	25.9982
5	7.14	**Nitrate**	MB*	1.084	5.523	1.2273
TOTAL:				8.81	42.25	28.38



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:	**18-Dec-2024 / 01:50**	*Run Time:*	**10.00**

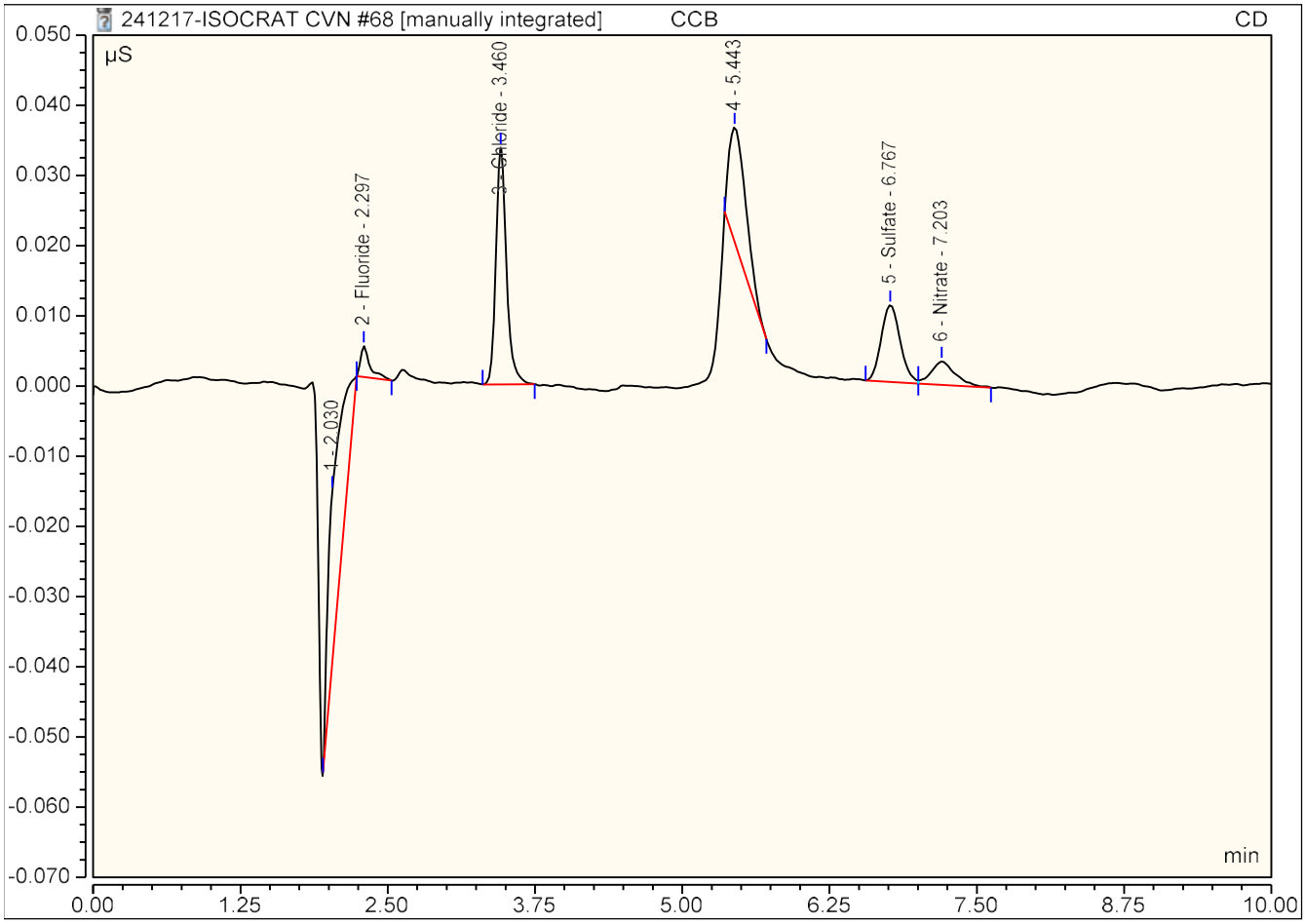
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.543	6.730	1.0528
3	3.46	**Chloride**	BMB	3.794	38.060	10.2190
5	5.98	**Bromide**	BMB	0.109	0.740	0.9628
6	6.63	**Sulfate**	BM *	5.845	27.369	20.7480
7	7.15	**Nitrate**	MB*	0.881	4.525	1.0021
TOTAL:				11.17	77.42	33.98



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:	**18-Dec-2024 / 02:02**	*Run Time:*	**10.00**

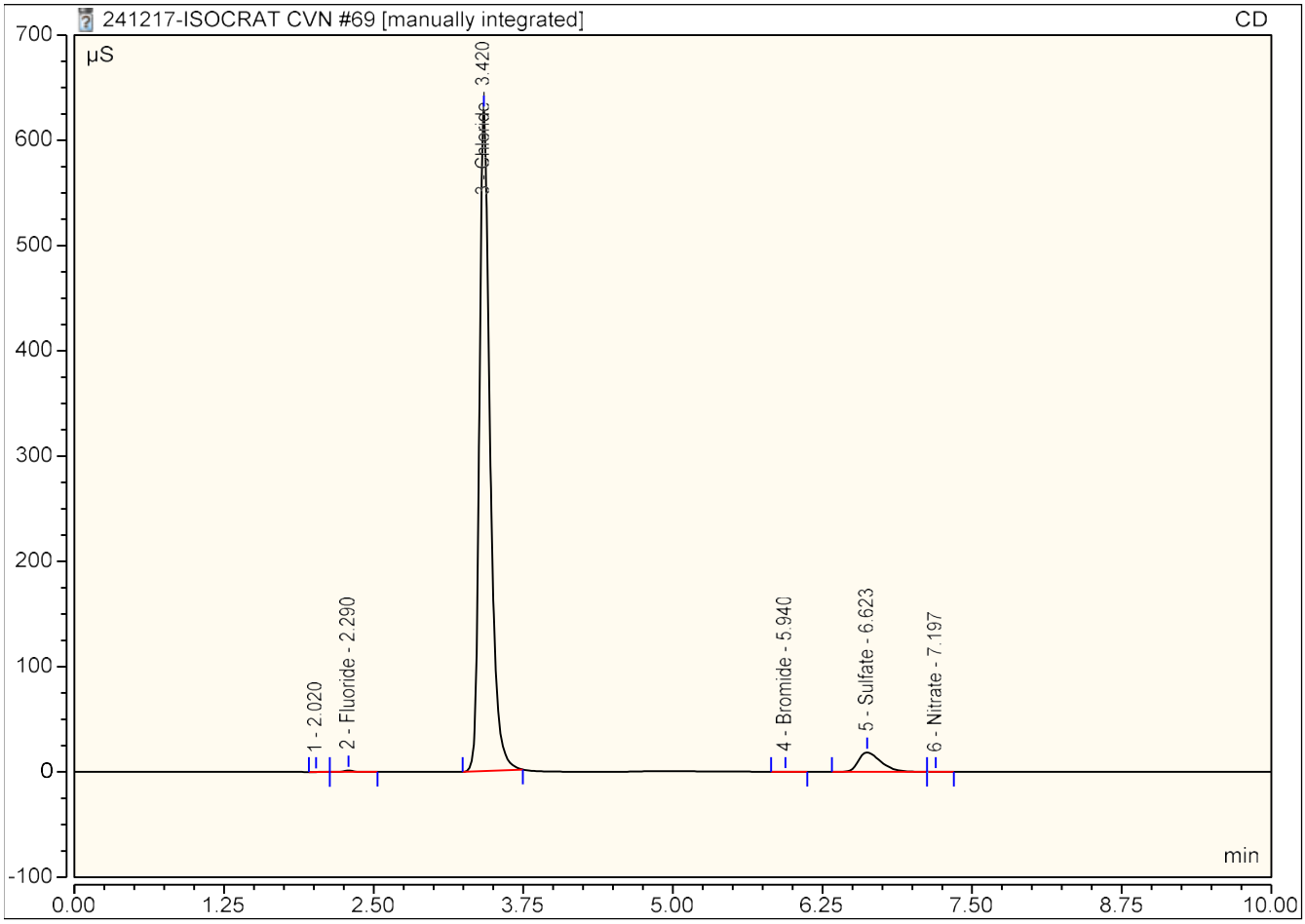
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.000	0.004	0.0224
3	3.46	**Chloride**	BMB	0.003	0.034	0.1269
5	6.77	**Sulfate**	BM *	0.002	0.011	0.2076
6	7.20	**Nitrate**	MB*	0.001	0.003	0.0261
TOTAL:				0.01	0.05	0.38



Peak Integration Report

Sample Name:	**L2472817-02 SO4**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**18-Dec-2024 / 02:14**	*Run Time:*	**10.00**

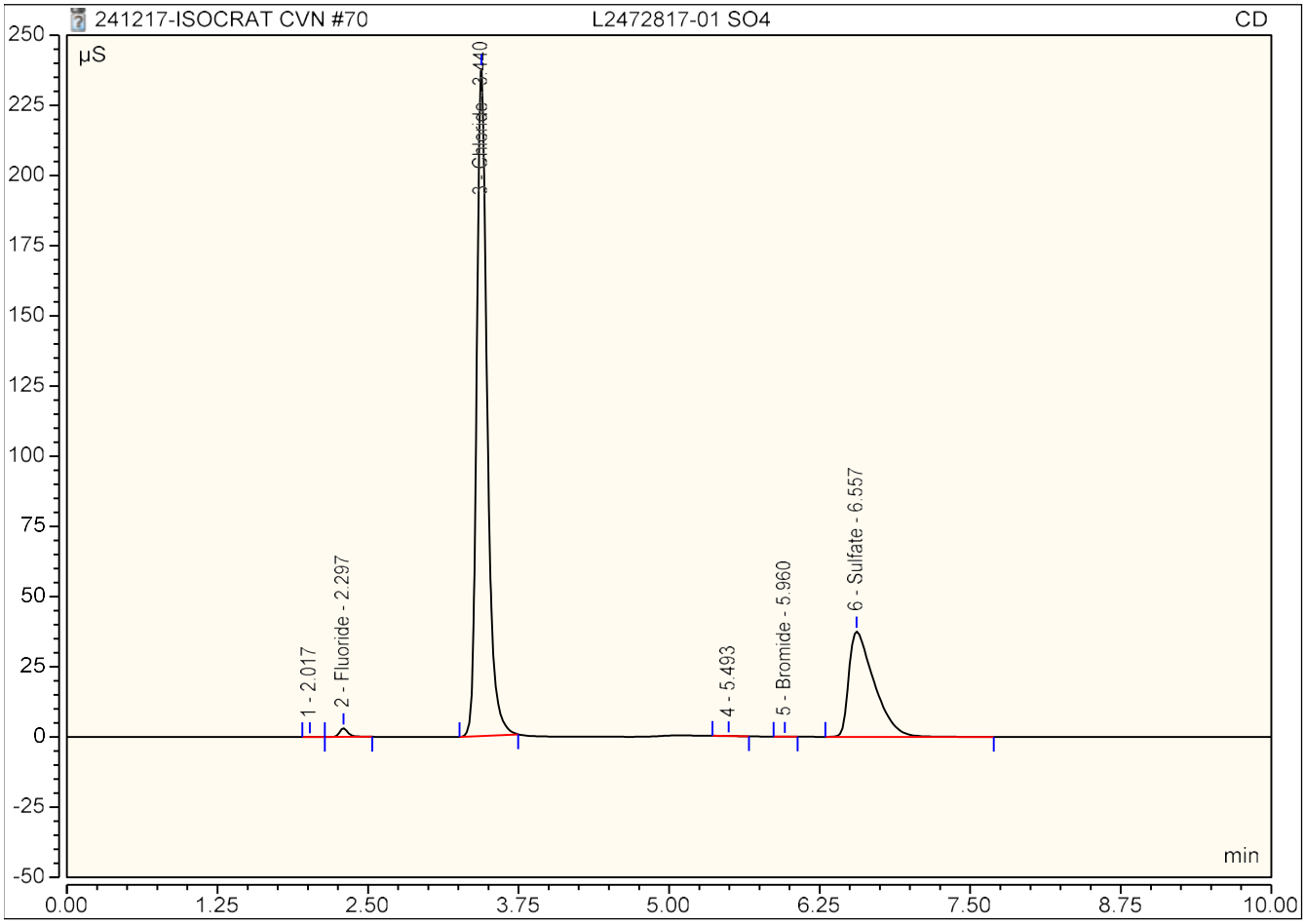
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.129	1.521	0.2659
3	3.42	**Chloride**	BMB	65.536	627.704	174.5991
4	5.94	**Bromide**	BMB	0.007	0.045	0.0857
5	6.62	**Sulfate**	BM *	4.062	18.586	14.4812
6	7.20	**Nitrate**	MB*	0.011	0.075	0.0380
TOTAL:				69.75	647.93	189.47



Peak Integration Report

Sample Name:	**L2472817-01 SO4**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**18-Dec-2024 / 02:26**	*Run Time:*	**10.00**

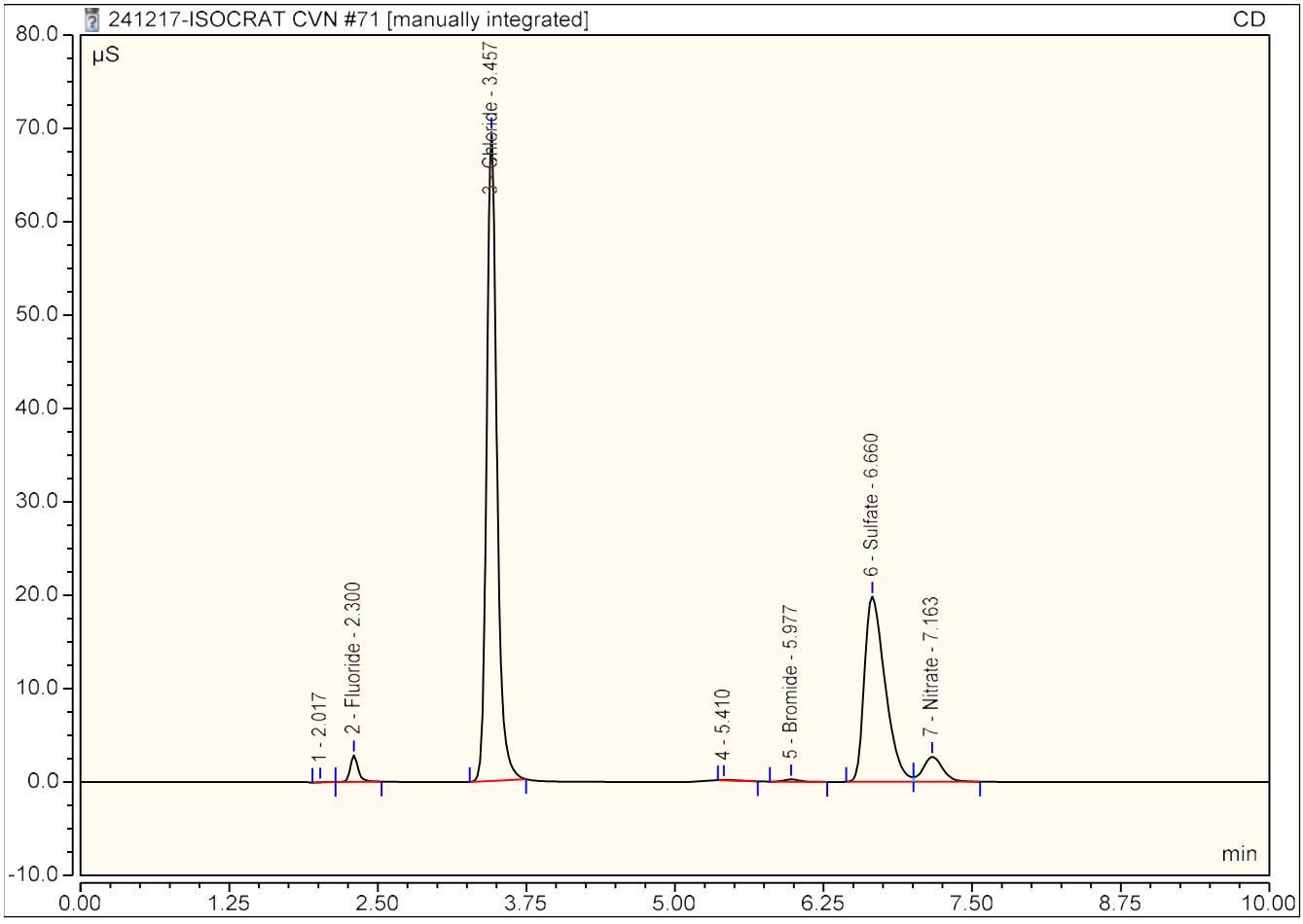
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.255	3.146	0.5058
3	3.44	**Chloride**	BMB	24.091	237.642	64.2561
5	5.96	**Bromide**	BMB	0.000	0.005	0.0338
6	6.56	**Sulfate**	BMB	9.145	37.564	32.3512
TOTAL:				33.49	278.36	97.15



Peak Integration Report

Sample Name:	**L2473300-05 MS; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**18-Dec-2024 / 02:38**	*Run Time:*	**10.00**

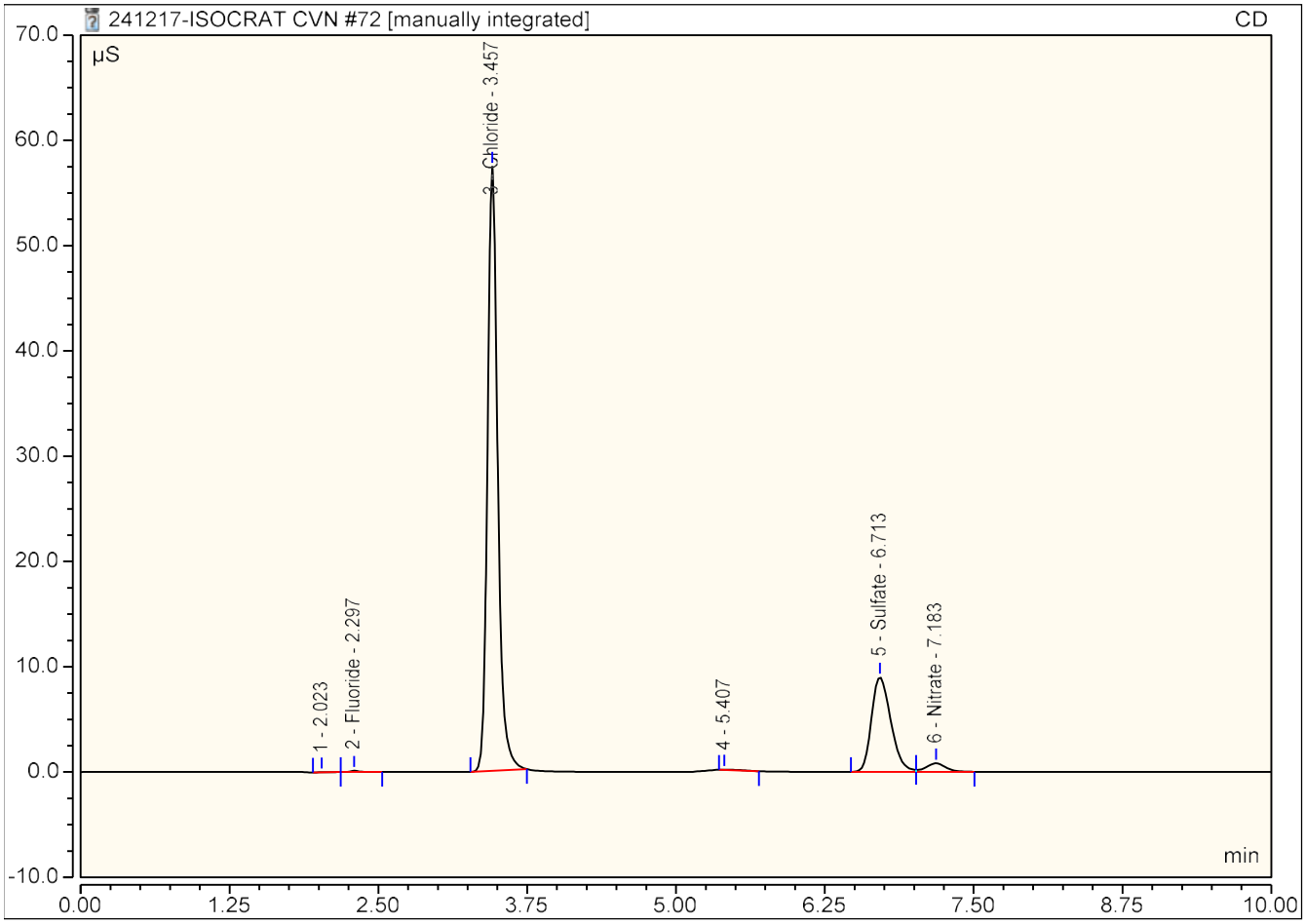
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.222	2.864	4.4284
3	3.46	**Chloride**	BMB	6.975	69.455	186.8814
5	5.98	**Bromide**	BMB	0.037	0.252	3.4713
6	6.66	**Sulfate**	BM *	4.017	19.830	143.2311
7	7.16	**Nitrate**	MB*	0.511	2.668	5.9211
TOTAL:				11.76	95.07	343.93



Peak Integration Report

Sample Name:	**L2473300-05 DUP; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**18-Dec-2024 / 02:50**	*Run Time:*	**10.00**

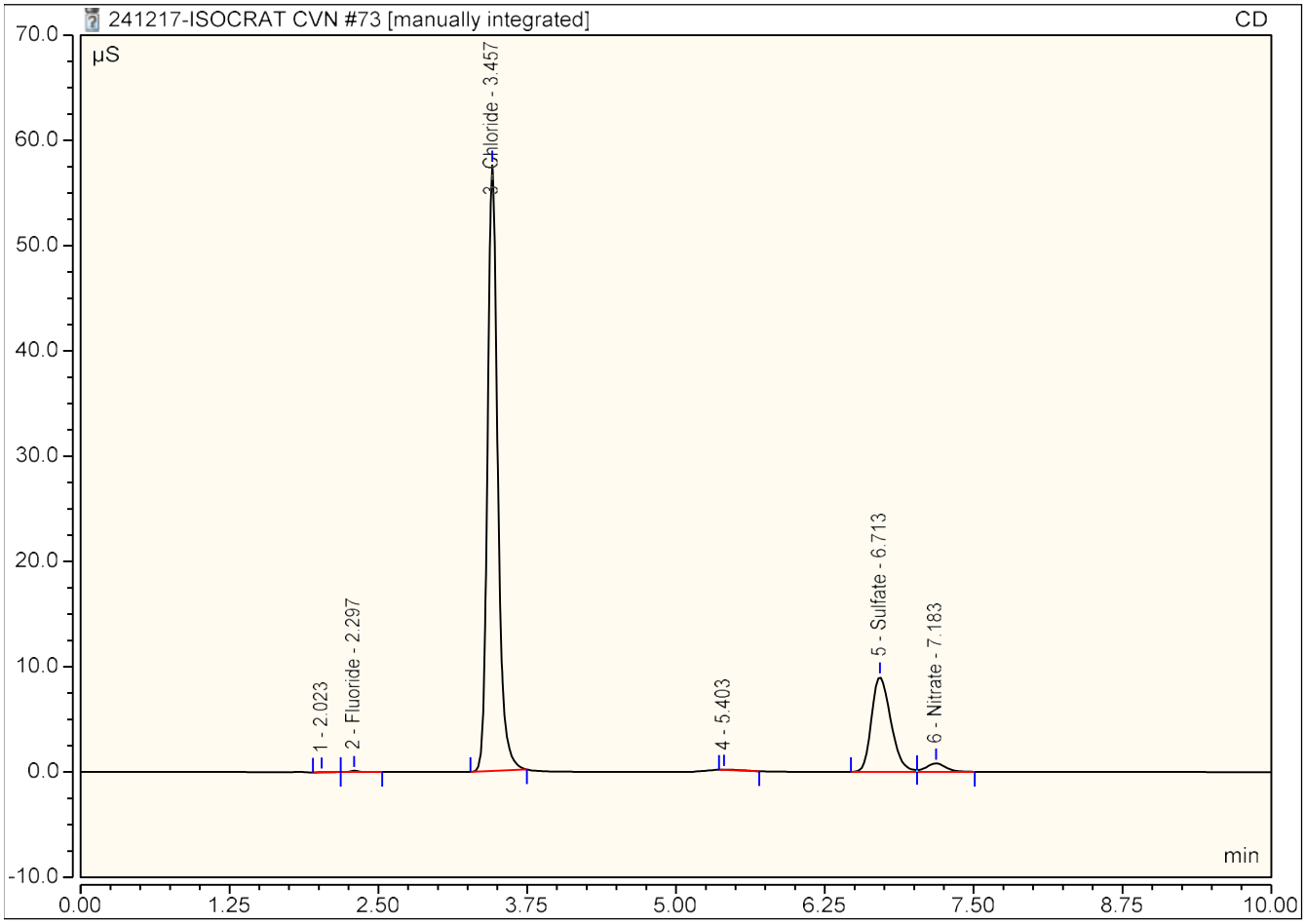
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.011	0.128	0.4192
3	3.46	**Chloride**	BMB	5.736	57.416	153.8949
5	6.71	**Sulfate**	BM *	1.691	8.984	61.4384
6	7.18	**Nitrate**	MB*	0.156	0.812	1.9870
TOTAL:				7.59	67.34	217.74



Peak Integration Report

Sample Name:	**L2473300-05; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**18-Dec-2024 / 03:03**	*Run Time:*	**10.00**

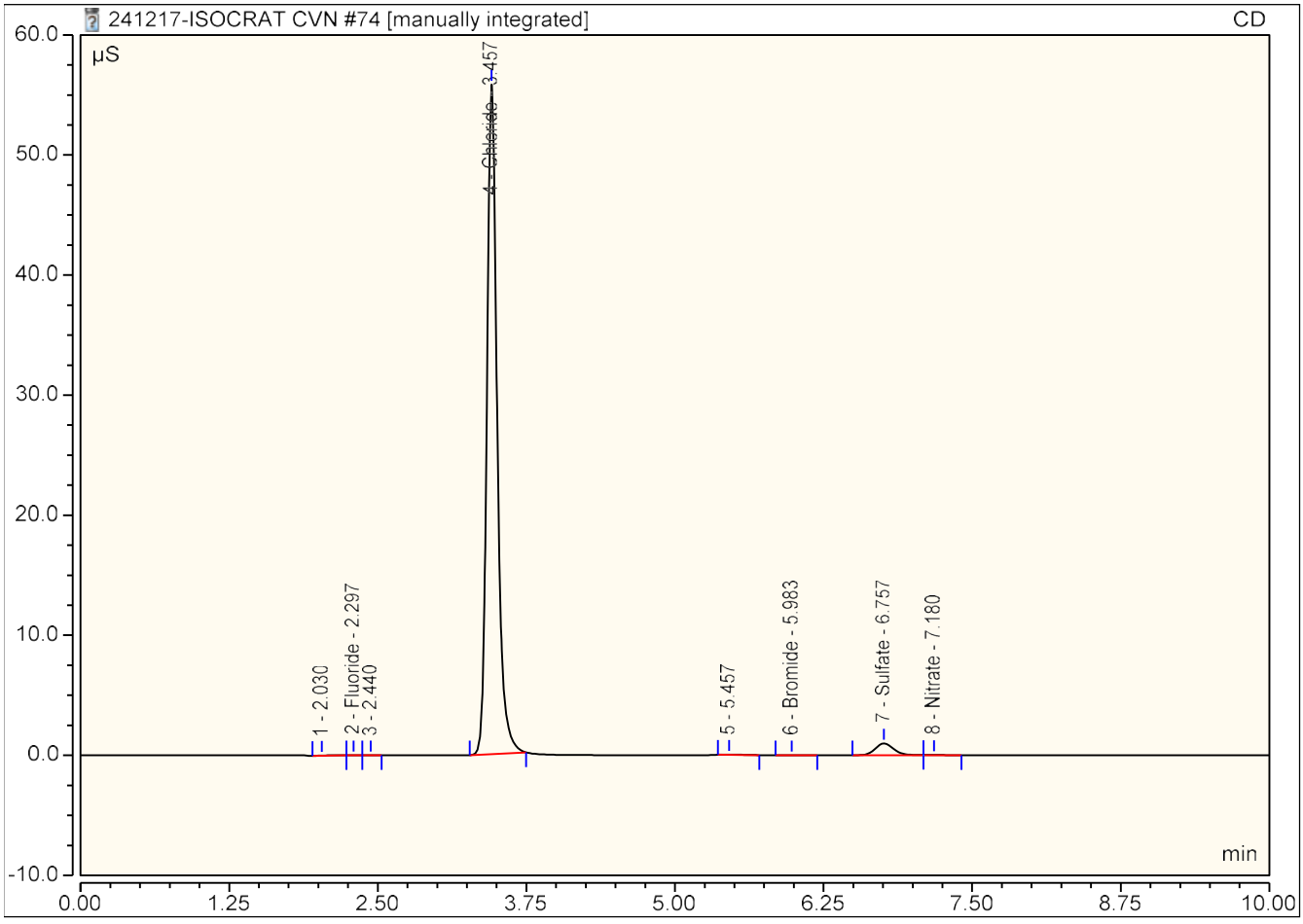
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.011	0.127	0.4167
3	3.46	**Chloride**	BMB	5.753	57.531	154.3472
5	6.71	**Sulfate**	BM *	1.697	9.003	61.6557
6	7.18	**Nitrate**	MB*	0.154	0.807	1.9566
TOTAL:				7.61	67.47	218.38



Peak Integration Report

Sample Name:	**L2473300-04; 100X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**100.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**18-Dec-2024 / 03:15**	*Run Time:*	**10.00**

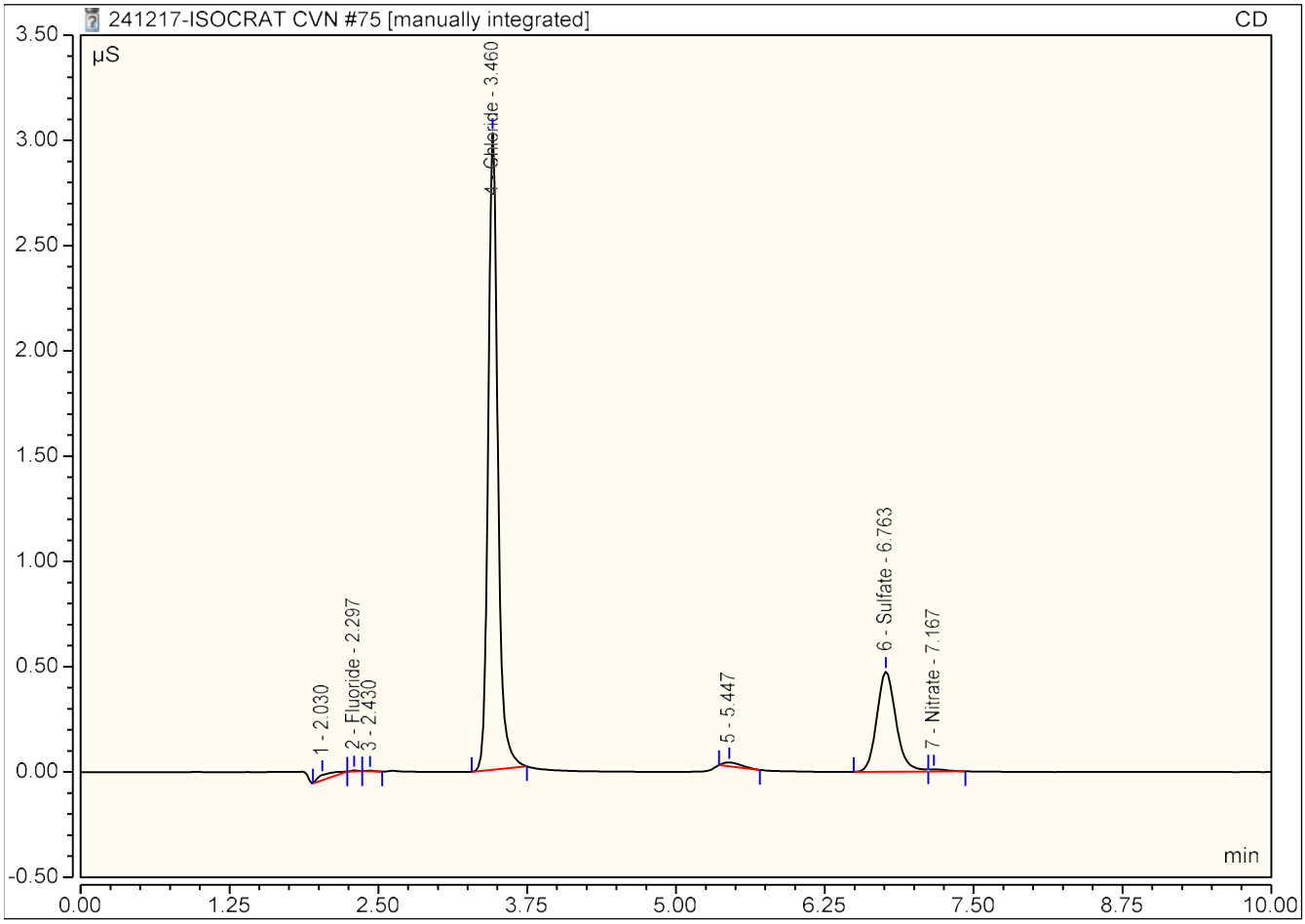
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.000	0.006	2.2302
4	3.46	**Chloride**	BMB	5.595	55.769	1501.2591
6	5.98	**Bromide**	BMB	0.001	0.004	3.5032
7	6.76	**Sulfate**	BM *	0.181	0.996	83.7116
8	7.18	**Nitrate**	MB*	0.004	0.023	3.0078
TOTAL:				5.78	56.80	1593.71



Peak Integration Report

Sample Name:	**XL2473300-07; 100X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**100.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**18-Dec-2024 / 03:27**	*Run Time:*	**10.00**

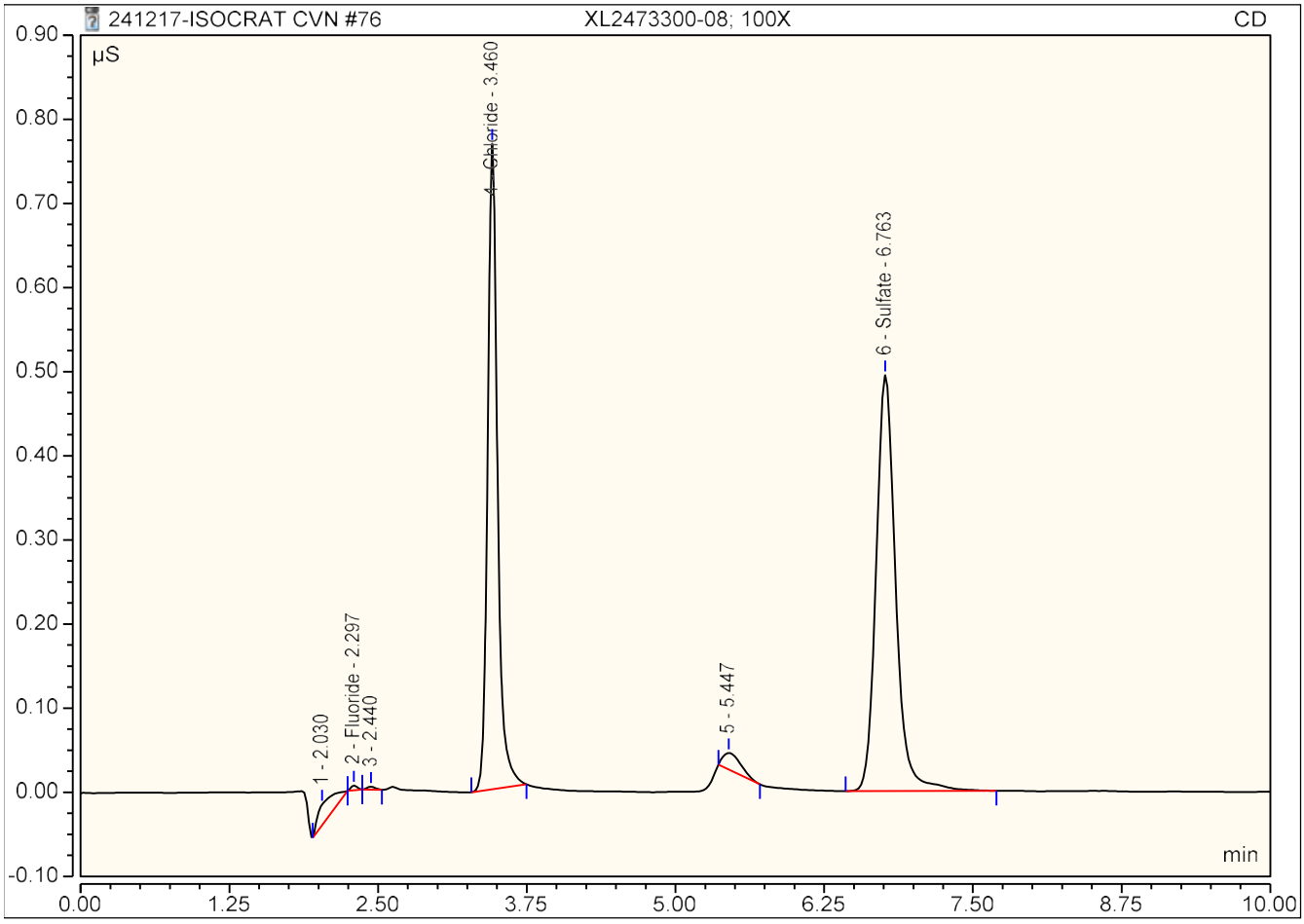
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.000	0.005	2.2213
4	3.46	**Chloride**	BMB	0.286	3.025	88.0072
6	6.76	**Sulfate**	BM *	0.089	0.475	51.1996
7	7.17	**Nitrate**	MB*	0.002	0.010	2.7077
TOTAL:				0.38	3.52	144.14



Peak Integration Report

Sample Name:	**XL2473300-08; 100X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**100.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**18-Dec-2024 / 03:39**	*Run Time:*	**10.00**

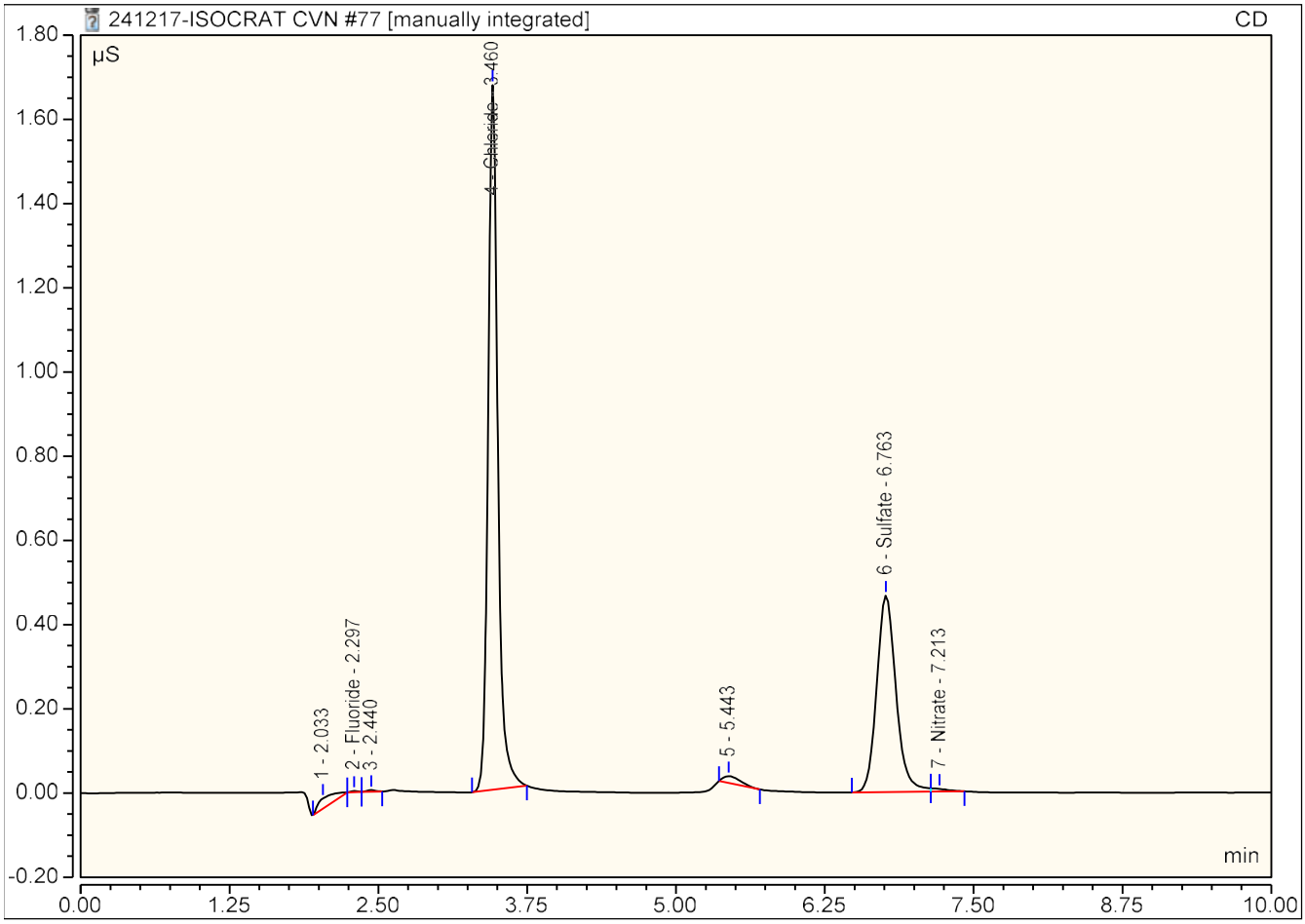
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.000	0.006	2.2282
4	3.46	**Chloride**	BMB	0.074	0.767	31.4899
6	6.76	**Sulfate**	BMB	0.094	0.494	53.1324
TOTAL:				0.17	1.27	86.85



Peak Integration Report

Sample Name:	**XL2473300-09; 100X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**100.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**18-Dec-2024 / 03:51**	*Run Time:*	**10.00**

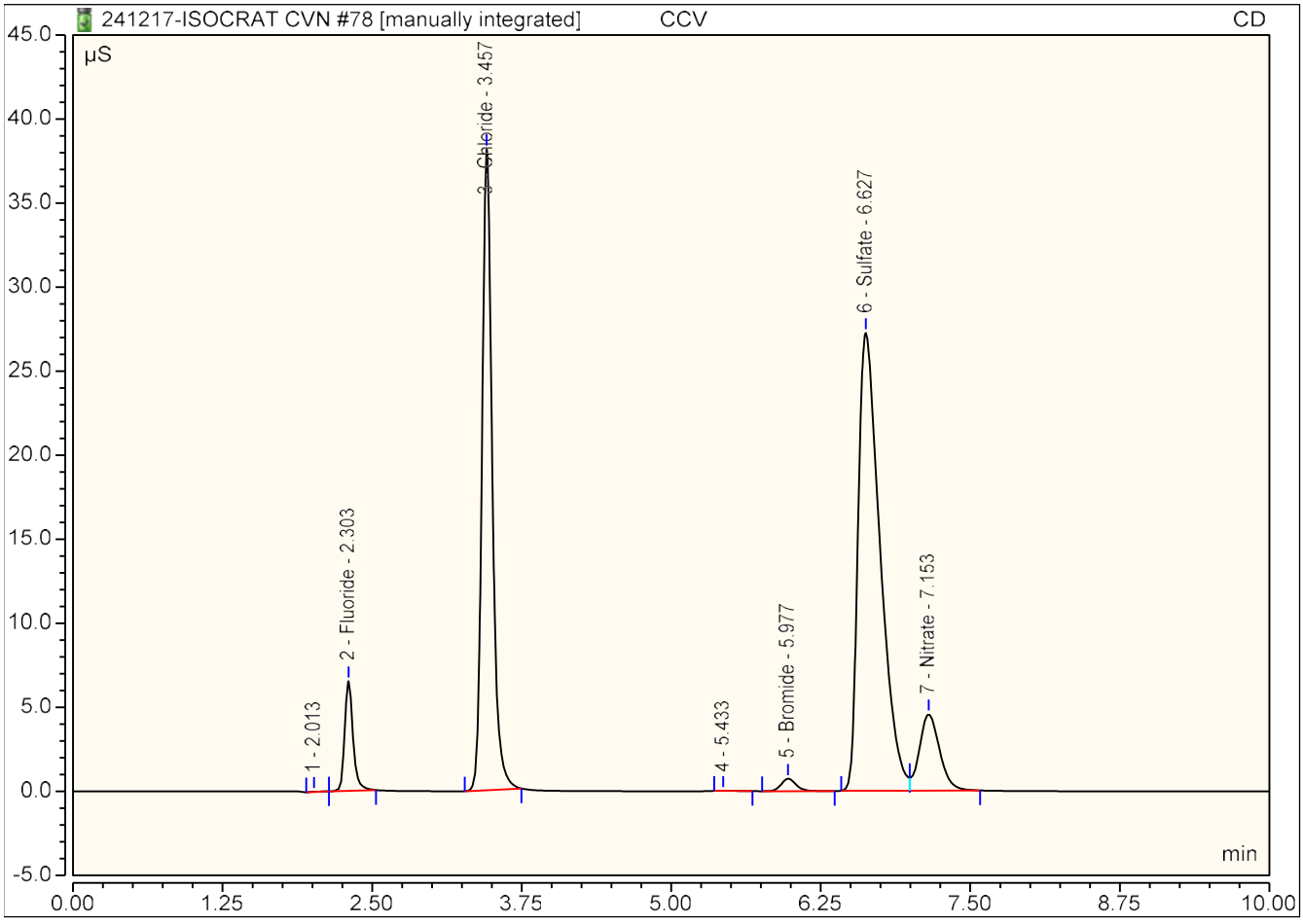
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.000	0.003	2.1920
4	3.46	**Chloride**	BMB	0.159	1.674	54.0384
6	6.76	**Sulfate**	BM *	0.087	0.467	50.7894
7	7.21	**Nitrate**	MB*	0.001	0.006	2.6477
TOTAL:				0.25	2.15	109.67



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:	**18-Dec-2024 / 04:03**	*Run Time:*	**10.00**

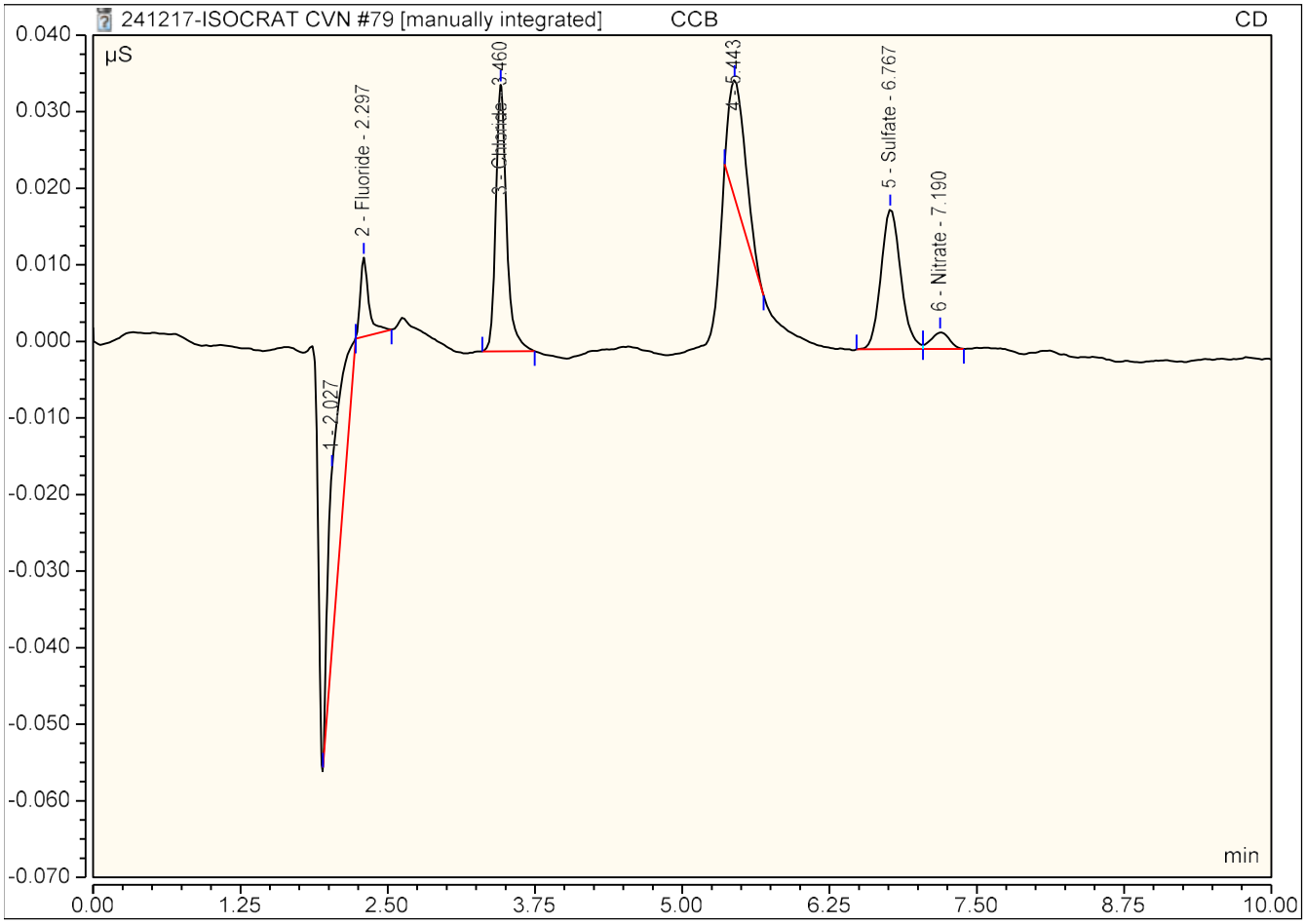
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.524	6.531	1.0164
3	3.46	**Chloride**	BMB	3.790	38.136	10.2091
5	5.98	**Bromide**	BMB	0.110	0.744	0.9680
6	6.63	**Sulfate**	BM *	5.797	27.241	20.5816
7	7.15	**Nitrate**	MB*	0.889	4.543	1.0110
TOTAL:				11.11	77.20	33.79



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:	**18-Dec-2024 / 04:15**	*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	0.0233
3	3.46	**Chloride**	BMB	0.004	0.035	0.1274
5	6.77	**Sulfate**	BM *	0.004	0.018	0.2130
6	7.19	**Nitrate**	MB*	0.000	0.002	0.0257
TOTAL:				0.01	0.07	0.39



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	0.0220	0.1192	n.a.	0.2070	n.a.
2	STD 0.5	1.0	0.0378	0.3031	0.0441	0.5516	0.0465
3	STD 1.0	1.0	0.0550	0.5119	0.0627	0.9678	0.0677
4	STD 2.0	1.0	0.1840	1.9973	0.1855	3.9537	0.1922
5	STD 3.0	1.0	0.4887	5.0437	0.4758	10.1180	0.4581
6	STD 4.0	1.0	2.0130	19.8311	2.0070	39.8646	2.0106
7	STD 5.0	1.0	4.9964	50.0629	5.3254	100.0443	5.5192
8	RINSE	1.0	n.a.	0.1364	0.0257	0.2162	n.a.
9	CCV	1.0	1.0298	10.2603	1.0059	20.6523	0.9805
10	CCB	1.0	0.0232	0.1243	0.0256	0.2131	n.a.
11	ICV	1.0	0.8515	7.9365	0.8225	7.7254	0.7798
12	ICB	1.0	0.0223	0.1240	0.0258	0.2075	n.a.
13	BLK	1.0	0.0219	0.1293	0.0257	0.2069	n.a.
14	LCS	1.0	0.8533	8.0284	0.8305	7.7281	0.7781
15	BLK-2	1.0	0.0225	0.1292	0.0256	0.2074	n.a.
16	LCS-2	1.0	0.8555	7.9437	0.8194	7.7228	0.7817
17	XL2473162-01 BR	1.0	0.2096	8.8065	n.a.	10.6811	0.0750
18	L2473162-02	1.0	0.0526	14.0644	0.3253	26.3686	0.0479
19	L2473162-03	1.0	0.0819	15.2559	1.3795	13.8152	n.a.
20	L2473162-04	1.0	0.0380	10.2240	1.6252	15.0485	0.0630
21	CCV	1.0	1.0332	10.2667	1.0056	20.6329	0.9784
22	CCB	1.0	0.0225	0.1233	0.0256	0.2103	n.a.
23	L2473162-05	1.0	0.0745	21.1781	0.9857	16.4892	0.0427
24	L2473162-06 MS	1.0	0.4724	17.3938	1.0826	44.8034	0.4014
25	L2473162-06 MSD	1.0	0.4724	17.3928	1.0848	44.7348	0.4005
26	L2473162-06	1.0	0.0547	13.6831	0.6800	37.6475	0.0605
27	L2473162-07	1.0	0.0539	13.6678	0.6696	37.4496	0.0606
28	L2473162-08	1.0	0.0453	3.5558	5.3865	49.9122	n.a.
29	L2473162-09	1.0	0.0330	26.8879	2.4029	13.0459	0.0408
30	L2473162-10	1.0	0.0220	0.1263	0.0261	0.2180	n.a.
31	XL2473162-10; 10X	10.0	0.2195	1.2032	n.a.	2.0325	n.a.
32	CCV	1.0	1.0317	10.2584	1.0121	20.6733	0.9823
33	CCB	1.0	0.0228	0.1270	0.0262	0.2160	n.a.
34	L2473130-01 CL	1.0	0.1223	43.7369	0.0477	40.5694	n.a.
35	XL2473130-01; 10X	10.0	0.3179	45.8895	0.2955	41.8019	n.a.
36	XL2473130-02	1.0	0.1585	175.3058	0.0402	1.3752	0.1553
37	L2473130-02; 10X	10.0	0.3138	187.7981	0.2860	5.3409	0.3479
38	XL2473130-03	1.0	0.3130	59.9973	0.0914	12.2730	0.0506
39	L2473130-03; 10X	10.0	0.4673	63.2976	0.3221	12.7175	n.a.
40	L2473760-01 CL; 25X	25.0	0.6116	699.8810	1.2693	498.7460	1.4183
41	L2473760-02; 25X	25.0	0.6666	273.8057	2.5969	1293.3927	1.1997
42	L2473492-01 CL SO4	1.0	0.0400	48.7855	0.7063	12.8782	0.0387
43	XL2473492-01; 10X	10.0	0.2294	52.1435	0.8175	12.8370	n.a.
44	CCV	1.0	0.9824	10.2259	1.0163	20.6833	0.9725
45	CCB	1.0	0.0255	0.1277	0.0261	0.2151	n.a.

46	L2473051-01 BR CL SO4	1.0	0.0805	1.0872	1.2111	26.1550	n.a.
47	XL2473051-01; 10X	10.0	0.2778	1.9856	1.2278	26.8200	n.a.
48	L2473051-02	1.0	0.0746	11.9519	1.9509	37.6670	n.a.
49	XL2473051-02; 10X	10.0	0.2708	12.4052	1.8268	39.0319	n.a.
50	XL2472817-01 SO4; 10X	10.0	0.5978	67.3034	n.a.	33.0819	n.a.
51	XL2472817-02; 10X	10.0	0.4243	184.1711	0.2691	14.5793	0.3199
52	L2473162-01 BR	1.0	0.0363	4.6868	0.4493	8.0164	0.0345
53	L2473300-01 CL; 10X	10.0	0.2780	47.9414	1.3564	28.0738	n.a.
54	L2473300-02; 10X	10.0	0.3453	74.8163	0.5347	109.2424	n.a.
55	L2473300-03; 10X	10.0	0.3341	101.0405	1.3631	45.8379	n.a.
56	CCV	1.0	1.0085	10.2439	1.0082	20.6570	0.9693
57	CCB	1.0	0.0235	0.1273	0.0260	0.2110	n.a.
58	XL2473300-04; 10X	10.0	0.3407	1524.8440	0.6933	86.6920	0.8428
59	XL2473300-05; 10X	10.0	0.4189	155.0527	1.9482	61.7931	n.a.
60	L2473300-06; 10X	10.0	0.3950	135.1744	0.4532	144.3571	0.3021
61	L2473300-07; 10X	10.0	0.3266	93.1942	0.3340	45.8163	n.a.
62	L2473300-08; 10X	10.0	0.3394	27.6833	n.a.	47.0538	n.a.
63	L2473300-09; 10X	10.0	0.2540	55.6817	n.a.	46.5939	n.a.
64	L2473642-01 CL; 25X	25.0	0.6097	68.5862	1.0690	22.7289	0.7574
65	L2473051-01 MS	1.0	0.4740	5.1229	1.6234	33.3672	0.3208
66	L2473051-01 DUP	1.0	0.0786	1.0804	1.2273	25.9982	n.a.
67	CCV	1.0	1.0528	10.2190	1.0021	20.7480	0.9628
68	CCB	1.0	0.0224	0.1269	0.0261	0.2076	n.a.
69	L2472817-02 SO4	1.0	0.2659	174.5991	0.0380	14.4812	0.0857
70	L2472817-01 SO4	1.0	0.5058	64.2561	n.a.	32.3512	0.0338
71	L2473300-05 MS; 10X	10.0	4.4284	186.8814	5.9211	143.2311	3.4713
72	L2473300-05 DUP; 10X	10.0	0.4192	153.8949	1.9870	61.4384	n.a.
73	L2473300-05; 10X	10.0	0.4167	154.3472	1.9566	61.6557	n.a.
74	L2473300-04; 100X	100.0	2.2302	1501.2591	3.0078	83.7116	3.5032
75	XL2473300-07; 100X	100.0	2.2213	88.0072	2.7077	51.1996	n.a.
76	XL2473300-08; 100X	100.0	2.2282	31.4899	n.a.	53.1324	n.a.
77	XL2473300-09; 100X	100.0	2.1920	54.0384	2.6477	50.7894	n.a.
78	CCV	1.0	1.0164	10.2091	1.0110	20.5816	0.9680
79	CCB	1.0	0.0233	0.1274	0.0257	0.2130	n.a.
	Sum:	736.000	43.6766		75.8425	4004.9111	31.5222
	Average:	9.316	0.5600		1.0682	50.6951	0.7688
	Rel.Std.Dev:	234.311 %	1.5586		1.1453	3.0415	1.4372

Inject Time	Comment
11/Dec/2024 12:38	AU
11/Dec/2024 12:50	LOT#241211-0.5
11/Dec/2024 13:02	LOT#241211-1.0
11/Dec/2024 13:14	LOT#241211-2.0
11/Dec/2024 13:26	LOT#241211-3.0
11/Dec/2024 13:39	LOT#241211-4.0
11/Dec/2024 13:51	LOT#241211-5.0
17/Dec/2024 13:47	NG2010321-345-469
17/Dec/2024 13:59	LOT#241212-C
17/Dec/2024 14:11	AU
17/Dec/2024 14:23	LOT#241212-I
17/Dec/2024 14:35	AU
17/Dec/2024 14:47	AU
17/Dec/2024 14:59	LOT#241212-I
17/Dec/2024 15:11	AU
17/Dec/2024 15:23	LOT#241212-I
17/Dec/2024 15:36	AU
17/Dec/2024 15:58	AU
17/Dec/2024 16:10	AU
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17/Dec/2024 16:46	AU
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17/Dec/2024 18:11	AU
17/Dec/2024 18:23	AU
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17/Dec/2024 18:59	AU
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17/Dec/2024 20:48	AU
17/Dec/2024 21:00	AU
17/Dec/2024 21:12	LOT#241212-C
17/Dec/2024 21:24	AU

17/Dec/2024 21:36	AU
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17/Dec/2024 22:01	AU
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17/Dec/2024 23:25	AU
17/Dec/2024 23:37	LOT#241212-C
17/Dec/2024 23:49	AU
18/Dec/2024 00:01	AU
18/Dec/2024 00:13	AU
18/Dec/2024 00:26	AU
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18/Dec/2024 01:02	AU
18/Dec/2024 01:14	AU
18/Dec/2024 01:26	AU
18/Dec/2024 01:38	AU
18/Dec/2024 01:50	LOT#241212-C
18/Dec/2024 02:02	AU
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18/Dec/2024 03:39	AU
18/Dec/2024 03:51	AU
18/Dec/2024 04:03	LOT#241212-C
18/Dec/2024 04:15	AU
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Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1D	**Matrix**	: WATER
Lab Sample ID	: L2473162-06		
Matrix Spike	: WG2010321-3	**MS Analysis Date**	: 12/17/24 17:10
Matrix Spike Dup	: WG2010321-4	**MSD Analysis Date**	: 12/17/24 17:22

		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	0.060	0.4	0.401	84	Q	0.4	0.400	84	Q	0	90-110	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473162
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2010321-2	**LCS Analysis Date**	: 12/17/24 14:59
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**
Bromide	0.800	0.778	97.					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

December 18, 2024

Jennifer Byrnes

,

RE: Project: L2473162
Pace Project No.: 70327757

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on December 13, 2024. 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

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Melville, NY 11747
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CERTIFICATIONS

Project: L2473162
Pace Project No.: 70327757

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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516-370-6000

SAMPLE SUMMARY

Project: L2473162
Pace Project No.: 70327757

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70327757001	MW-11S	Water	12/12/24 08:25	12/13/24 07:00
70327757002	MW-11D	Water	12/12/24 08:42	12/13/24 07:00
70327757003	MW-1SR	Water	12/12/24 09:50	12/13/24 07:00
70327757004	MW-1DR2	Water	12/12/24 10:10	12/13/24 07:00
70327757005	MP-1	Water	12/12/24 11:40	12/13/24 07:00
70327757006	MP-1D	Water	12/12/24 12:05	12/13/24 07:00
70327757007	DUP_121224	Water	12/12/24 12:00	12/13/24 07:00
70327757008	MW-13S	Water	12/12/24 14:00	12/13/24 07:00
70327757009	MW-13D	Water	12/12/24 14:05	12/13/24 07:00
70327757010	EB_121224	Water	12/12/24 13:00	12/13/24 07:00

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SAMPLE ANALYTE COUNT

Project: L2473162
Pace Project No.: 70327757

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70327757001	MW-11S	SM22 4500-S2 F	JWM	1
70327757002	MW-11D	SM22 4500-S2 F	JWM	1
70327757003	MW-1SR	SM22 4500-S2 F	JWM	1
70327757004	MW-1DR2	SM22 4500-S2 F	JWM	1
70327757005	MP-1	SM22 4500-S2 F	JWM	1
70327757006	MP-1D	SM22 4500-S2 F	JWM	1
70327757007	DUP_121224	SM22 4500-S2 F	JWM	1
70327757008	MW-13S	SM22 4500-S2 F	JWM	1
70327757009	MW-13D	SM22 4500-S2 F	JWM	1
70327757010	EB_121224	SM22 4500-S2 F	JWM	1

PACE-MV = Pace Analytical Services - Melville

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PROJECT NARRATIVE

Project: L2473162
Pace Project No.: 70327757

Method: SM22 4500-S2 F
Description: 4500S2F W Sulfide Iodometric
Client: Alpha Analytical
Date: December 18, 2024

General Information:
10 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.

QC Batch: 375794

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70327757006

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1969285)
  - Sulfide
- MSD (Lab ID: 1969286)
  - Sulfide

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: L2473162
Pace Project No.: 70327757

Sample: MW-11S Lab ID: 70327757001 Collected: 12/12/24 08:25 Received: 12/13/24 07:00 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	2.0	mg/L	2.0	0.20	1		12/18/24 14:38		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L2473162
Pace Project No.: 70327757

Sample: MW-11D Lab ID: 70327757002 Collected: 12/12/24 08:42 Received: 12/13/24 07:00 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		12/18/24 14:41		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L2473162
Pace Project No.: 70327757

Sample: MW-1SR Lab ID: 70327757003 Collected: 12/12/24 09:50 Received: 12/13/24 07:00 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		12/18/24 14:44		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L2473162
Pace Project No.: 70327757

Sample: MW-1DR2 Lab ID: 70327757004 Collected: 12/12/24 10:10 Received: 12/13/24 07:00 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		12/18/24 14:48		

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ANALYTICAL RESULTS

Project: L2473162
Pace Project No.: 70327757

Sample: MP-1 Lab ID: 70327757005 Collected: 12/12/24 11:40 Received: 12/13/24 07:00 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		12/18/24 14:52		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L2473162
Pace Project No.: 70327757

Sample: MP-1D Lab ID: 70327757006 Collected: 12/12/24 12:05 Received: 12/13/24 07:00 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		12/18/24 14:55		M1

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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: L2473162
Pace Project No.: 70327757

Sample: DUP_121224 Lab ID: 70327757007 Collected: 12/12/24 12:00 Received: 12/13/24 07:00 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		12/18/24 15:06		

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Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: L2473162
Pace Project No.: 70327757

Sample: MW-13S Lab ID: 70327757008 Collected: 12/12/24 14:00 Received: 12/13/24 07:00 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		12/18/24 15:09		

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ANALYTICAL RESULTS

Project: L2473162
Pace Project No.: 70327757

Sample: MW-13D Lab ID: 70327757009 Collected: 12/12/24 14:05 Received: 12/13/24 07:00 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		12/18/24 15:12		

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ANALYTICAL RESULTS

Project: L2473162
Pace Project No.: 70327757

Sample: EB_121224 Lab ID: 70327757010 Collected: 12/12/24 13:00 Received: 12/13/24 07:00 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		12/18/24 15:15		

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QUALITY CONTROL DATA

Project: L2473162
Pace Project No.: 70327757

QC Batch: 375794
QC Batch Method: SM22 4500-S2 F
Analysis Method: SM22 4500-S2 F
Analysis Description: 4500S2F W Sulfide Iodometric
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70327757001, 70327757002, 70327757003, 70327757004, 70327757005, 70327757006, 70327757007, 70327757008, 70327757009, 70327757010

METHOD BLANK: 1969283 Matrix: Water
Associated Lab Samples: 70327757001, 70327757002, 70327757003, 70327757004, 70327757005, 70327757006, 70327757007, 70327757008, 70327757009, 70327757010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	<0.20	2.0	0.20	12/18/24 14:34	

LABORATORY CONTROL SAMPLE: 1969284

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	14	13.6	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1969285 1969286

Parameter	Units	70327757006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	<0.20	2.8	2.8	1.7J	1.7J	60	60	70-130		20	M1

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: L2473162
Pace Project No.: 70327757

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.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2473162
Pace Project No.: 70327757

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70327757001	MW-11S	SM22 4500-S2 F	375794		
70327757002	MW-11D	SM22 4500-S2 F	375794		
70327757003	MW-1SR	SM22 4500-S2 F	375794		
70327757004	MW-1DR2	SM22 4500-S2 F	375794		
70327757005	MP-1	SM22 4500-S2 F	375794		
70327757006	MP-1D	SM22 4500-S2 F	375794		
70327757007	DUP_121224	SM22 4500-S2 F	375794		
70327757008	MW-13S	SM22 4500-S2 F	375794		
70327757009	MW-13D	SM22 4500-S2 F	375794		
70327757010	EB_121224	SM22 4500-S2 F	375794		

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WO#: 70327757

70327757

Subcontract Chain of Custody

Pace Analytical (Melville)
575 Broad Hollow Road
Melville, NY 11747

Pace Job Number
L2473162

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: L2473162 Report to include Method and/or Regulatory required batch QC

Additional Comments: ASPB report needed/REPORT TO MDL, Package TAT= 1-2 Days after final report per Mike Miller/ NYS EQUIS EDD

Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
	L2473162-01	MW-11S	12-12-24 08:25	WATER	Sulfide			0
	L2473162-02	MW-11D	12-12-24 08:42	WATER	Sulfide			0
	L2473162-03	MW-1SR	12-12-24 09:50	WATER	Sulfide			0
	L2473162-04	MW-1DR2	12-12-24 10:10	WATER	Sulfide			0
	L2473162-05	MP-1	12-12-24 11:40	WATER	Sulfide			0
	L2473162-06	MP-1D	12-12-24 12:05	WATER	Sulfide		MS;MSD	0
	L2473162-07	DUP_121224	12-12-24 12:00	WATER	Sulfide			0
	L2473162-08	MW-13S	12-12-24 14:00	WATER	Sulfide			0
	L2473162-09	MW-13D	12-12-24 14:05	WATER	Sulfide			0
	L2473162-10	EB_121224	12-12-24 13:00	WATER	Sulfide			0

	Relinquished By:	Date/Time:	Received By:	Date/Time:
	[illegible] 12/12/24 7:11		Claudia Gomez PACE	12/12/24 1933
	Claudia Gomez PACE	12/12/24 1935	PMD PUF	12/13/24 7:15am
Form No: AL_subcoc				

DC#_Title: Excel Form Template
Effective Date:

WO#: 70327757
PM: BDR **Due Date: 12/24/24**
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 ☐ Ziplo ☑ None ☐ Other Type of Ice: (Wet) Blue None

Thermometer Used: TH21 Correction Factor: +0.0 ☐ Samples on ice, cooling process has begun
Cooler Temperature(°C): 0.3 Cooler Temperature Corrected(°C): 0.3 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 orignate 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: ABB 12/16/24

				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	☑Yes Matrix: SL WT OIL OTHER	☐No		12.

Date and Initials of person checking preservation: ABB 12/16/24

All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # 213624				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)	☑Yes	☐No	☐N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sul	☐Yes	☐No	☑N/A	15.
Lead Acetate Strips Lot #				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

December 24, 2024

Jennifer Byrnes
Pace MA
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2473162
Pace Project No.: 50390319

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on December 17, 2024. 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

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(317)228-3100

CERTIFICATIONS

Project: L2473162
Pace Project No.: 50390319

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
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

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(317)228-3100

SAMPLE SUMMARY

Project: L2473162
Pace Project No.: 50390319

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50390319001	**MW-11S**	Water	12/12/24 08:25	12/17/24 09:40
50390319002	**MW-11D**	Water	12/12/24 08:42	12/17/24 09:40
50390319003	**MW-1SR**	Water	12/12/24 09:50	12/17/24 09:40
50390319004	**MW-1DR2**	Water	12/12/24 10:10	12/17/24 09:40
50390319005	**MP-1**	Water	12/12/24 11:40	12/17/24 09:40
50390319006	**MP-1D**	Water	12/12/24 12:05	12/17/24 09:40
50390319007	**DUP_121224**	Water	12/12/24 12:00	12/17/24 09:40
50390319008	**MW-13S**	Water	12/12/24 14:00	12/17/24 09:40
50390319009	**MW-13D**	Water	12/12/24 14:05	12/17/24 09:40
50390319010	**EB_121224**	Water	12/12/24 13:30	12/17/24 09:40

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(317)228-3100

SAMPLE ANALYTE COUNT

Project: L2473162
Pace Project No.: 50390319

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50390319001	**MW-11S**	EPA 9056	DMP1	1
50390319002	**MW-11D**	EPA 9056	DMP1	1
50390319003	**MW-1SR**	EPA 9056	DMP1	1
50390319004	**MW-1DR2**	EPA 9056	DMP1	1
50390319005	**MP-1**	EPA 9056	DMP1	1
50390319006	**MP-1D**	EPA 9056	DMP1	1
50390319007	**DUP_121224**	EPA 9056	DMP1	1
50390319008	**MW-13S**	EPA 9056	DMP1	1
50390319009	**MW-13D**	EPA 9056	DMP1	1
50390319010	**EB_121224**	EPA 9056	DMP1	1

PASI-I = Pace Analytical Services - Indianapolis

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ANALYTICAL RESULTS

Project: L2473162
Pace Project No.: 50390319

Sample: MW-11S **Lab ID: 50390319001** Collected: 12/12/24 08:25 Received: 12/17/24 09:40 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		12/20/24 02:05		

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ANALYTICAL RESULTS

Project: L2473162
Pace Project No.: 50390319

Sample: MW-11D **Lab ID: 50390319002** Collected: 12/12/24 08:42 Received: 12/17/24 09:40 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		12/20/24 02:26		

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ANALYTICAL RESULTS

Project: L2473162
Pace Project No.: 50390319

Sample: MW-1SR **Lab ID: 50390319003** Collected: 12/12/24 09:50 Received: 12/17/24 09:40 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		12/20/24 02:48		

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ANALYTICAL RESULTS

Project: L2473162
Pace Project No.: 50390319

Sample: MW-1DR2 **Lab ID: 50390319004** Collected: 12/12/24 10:10 Received: 12/17/24 09:40 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		12/20/24 03:11		

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ANALYTICAL RESULTS

Project: L2473162
Pace Project No.: 50390319

Sample: MP-1 **Lab ID: 50390319005** Collected: 12/12/24 11:40 Received: 12/17/24 09:40 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		12/20/24 03:33		

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ANALYTICAL RESULTS

Project: L2473162
Pace Project No.: 50390319

Sample: MP-1D **Lab ID: 50390319006** Collected: 12/12/24 12:05 Received: 12/17/24 09:40 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		12/20/24 03:54		

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ANALYTICAL RESULTS

Project: L2473162
Pace Project No.: 50390319

Sample: DUP_121224 **Lab ID: 50390319007** Collected: 12/12/24 12:00 Received: 12/17/24 09:40 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		12/20/24 05:43		

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ANALYTICAL RESULTS

Project: L2473162
Pace Project No.: 50390319

Sample: MW-13S **Lab ID: 50390319008** Collected: 12/12/24 14:00 Received: 12/17/24 09:40 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		12/20/24 06:07		

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ANALYTICAL RESULTS

Project: L2473162
Pace Project No.: 50390319

Sample: MW-13D **Lab ID: 50390319009** Collected: 12/12/24 14:05 Received: 12/17/24 09:40 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		12/20/24 06:28		

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ANALYTICAL RESULTS

Project: L2473162
Pace Project No.: 50390319

Sample: EB_121224 **Lab ID: 50390319010** Collected: 12/12/24 13:30 Received: 12/17/24 09:40 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		12/20/24 06:49		

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QUALITY CONTROL DATA

Project: L2473162
Pace Project No.: 50390319

QC Batch: 824469 | Analysis Method: EPA 9056
QC Batch Method: EPA 9056 | Analysis Description: 9056 Iodide by IC
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50390319001, 50390319002, 50390319003, 50390319004, 50390319005, 50390319007, 50390319008, 50390319009, 50390319010

METHOD BLANK: 3773862 Matrix: Water
Associated Lab Samples: 50390319001, 50390319002, 50390319003, 50390319004, 50390319005, 50390319007, 50390319008, 50390319009, 50390319010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iodide	mg/L	ND	0.50	0.15	12/19/24 21:21	

LABORATORY CONTROL SAMPLE: 3773863

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodide	mg/L	5	5.4	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3773864 3773865

Parameter	Units	50389957004 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	5.2	5.1	104	101	80-120	2	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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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: L2473162
Pace Project No.: 50390319

QC Batch: 824470
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 Iodide by IC
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50390319006

METHOD BLANK: 3773866 Matrix: Water
Associated Lab Samples: 50390319006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iodide	mg/L	ND	0.50	0.15	12/19/24 20:57	

LABORATORY CONTROL SAMPLE: 3773867

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodide	mg/L	5	5.3	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3773868 3773869

Parameter	Units	50390319006 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	5.0	5.0	101	101	80-120	0	15	

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(317)228-3100

QUALIFIERS

Project: L2473162
Pace Project No.: 50390319

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: L2473162
Pace Project No.: 50390319

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50390319001	**MW-11S**	EPA 9056	824469		
50390319002	**MW-11D**	EPA 9056	824469		
50390319003	**MW-1SR**	EPA 9056	824469		
50390319004	**MW-1DR2**	EPA 9056	824469		
50390319005	**MP-1**	EPA 9056	824469		
50390319006	**MP-1D**	EPA 9056	824470		
50390319007	**DUP_121224**	EPA 9056	824469		
50390319008	**MW-13S**	EPA 9056	824469		
50390319009	**MW-13D**	EPA 9056	824469		
50390319010	**EB_121224**	EPA 9056	824469		

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WO#: 50390319

50390319

Subcontract Chain of Custody

Pace Analytical (Indianapolis, IN)
7726 Moller Road
Indianapolis, IN 46268

Pace Job Number
L2473162

Project 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 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: L2473162 Report to include Method and/or Regulatory required batch QC

Additional Comments: L4 report needed/REPORT TO MDL/needs L4 and EDD 265 NY EQUIS

Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
	L2473162-01	MW-11S	12-12-24 08:25	WATER	Iodide			1
	L2473162-02	MW-11D	12-12-24 08:42	WATER	Iodide			1
	L2473162-03	MW-1SR	12-12-24 09:50	WATER	Iodide			1
	L2473162-04	MW-1DR2	12-12-24 10:10	WATER	Iodide			1
	L2473162-05	MP-1	12-12-24 11:40	WATER	Iodide			1
	L2473162-06	MP-1D	12-12-24 12:05	WATER	Iodide		MS;MSD	3
	L2473162-07	DUP_121224	12-12-24 12:00	WATER	Iodide			1
	L2473162-08	MW-13S	12-12-24 14:00	WATER	Iodide			1
	L2473162-09	MW-13D	12-12-24 14:05	WATER	Iodide			1
	L2473162-10	EB_121224	12-12-24 13:30	Equipment Blank	Iodide			1

	Relinquished By:	Date/Time:	Received By:	Date/Time:
	[signature]	12/16/24	FedEx	—
	FedEx	12/17/24 940	By [signature] Pace	12/17/24 940
Form No: AL_subcoc				

F-IN-Q-290-rev.29, 4Oct2024

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 12/17/24 10:45 BS

1. Thermometer: 1 2 3 4 5 6 7 8 9 A B C D E F G H I

2. Cooler Temperature(s): 1.2 / 1.1 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

3. Courier: Circle One — Fed Ex UPS Client Pace Now/Jett Other

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)		X
Short Hold Time Analysis (48 hours or less)? Analysis:		X
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:	
Rush TAT Requested (4 days or less):		X
Custody Signatures Present?	X	
Containers Intact?:	X	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	X	
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			X
	Present	Absent	N/A
Residual Chlorine Check (SVOC 625 Pest/PCB 608)			X
Residual Chlorine Check (Total/Amenable/Free Cyanide)			X
	Present	Absent	No VOA Vials Sent
Headspace in VOA Vials (>6mm): See Containter Count form for details			X
Trip Blank Present?		X	
Trip Blank Custody Seals?:			X
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																		3											
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

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

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Sample: L2473162 MW-11S
Lab ID: 2024-V-2852 **Received:** 2024-12-17

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	214.93 mg	2025-01-03

Sample: L2473162 MW-11D
Lab ID: 2024-V-2853 **Received:** 2024-12-17

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	205.42 mg	2025-01-03

Sample: L2473162 MW-1SR
Lab ID: 2024-V-2854 **Received:** 2024-12-17

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	204.33 mg	2025-01-03

Sample: L2473162 MW-1DR2
Lab ID: 2024-V-2855 **Received:** 2024-12-17

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	204.61 mg	2025-01-03

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Sample: L2473162 MP-1
Lab ID: 2024-V-2856 **Received:** 2024-12-17

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	204.25 mg	2025-01-03

Sample: L2473162 MP-1D
Lab ID: 2024-V-2857 **Received:** 2024-12-17

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	206.19 mg	2025-01-03

Sample: L2473162 MP-1D +MS
Lab ID: 2024-V-2858 **Received:** 2024-12-17

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	204.46 mg	2025-01-03

Sample: L2473162 MP-1D +SD
Lab ID: 2024-V-2859 **Received:** 2024-12-17

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	204.36 mg	2025-01-03

Sample: L2473162 DUP_121224
Lab ID: 2024-V-2860 **Received:** 2024-12-17

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	204.65 mg	2025-01-03

Sample: L2473162 MW-13S
Lab ID: 2024-V-2861 **Received:** 2024-12-17

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	205.42 mg	2025-01-03

Sample: L2473162 MW-13D

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Lab ID: 2024-V-2862 **Received:** 2024-12-17

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	205.22 mg	2025-01-03

Sample: L2473162 EB_121224
Lab ID: 2024-V-2863 **Received:** 2024-12-17

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	204.44 mg	2025-01-03

Signatures:

Published By: Debbie.S.Robertson 2025-01-06T20:43:39.097-05:00
Created By: Debbie.S.Robertson 2025-01-06T20:43:16.693-05:00

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