

Pace Analytical Services

Laboratory Code: 11148

SDG Number: L2473538

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Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2473538
Report Date: 01/27/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2473538-01	PZ-5	WATER	416 MILLER PLACE-YAPHANK ROAD	12/13/24 08:20	12/13/24
L2473538-02	MW-5D	WATER	416 MILLER PLACE-YAPHANK ROAD	12/13/24 09:45	12/13/24
L2473538-03	SCDOH-DR	WATER	416 MILLER PLACE-YAPHANK ROAD	12/13/24 11:20	12/13/24
L2473538-04	MW-10S	WATER	416 MILLER PLACE-YAPHANK ROAD	12/13/24 12:43	12/13/24
L2473538-05	MW-10D	WATER	416 MILLER PLACE-YAPHANK ROAD	12/13/24 12:30	12/13/24
L2473538-06	EB_12132024	EQUIPMENT BLANK	416 MILLER PLACE-YAPHANK ROAD	12/13/24 13:30	12/13/24
L2473538-07	TRIP BLANK	TRIP BLANK (AQUEOUS)	416 MILLER PLACE-YAPHANK ROAD	12/10/24 00:00	12/13/24
L2473538-08	MW-10S_R	WATER	416 MILLER PLACE-YAPHANK ROAD	12/13/24 12:43	12/13/24
L2473538-09	EB_12132024_R	WATER	416 MILLER PLACE-YAPHANK ROAD	12/13/24 13:30	12/13/24

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 Revision

January 27, 2025: The subcontracted reports for Sulfide and Radiochemistry have been amended.

Report Submission

January 08, 2025: This final report includes the results of all requested analyses.

December 20, 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 following analyses were subcontracted: Ammonium, Iodide, Sulfide, Radium 226, Radium 228, Thorium, and Uranium. Copies of the laboratory reports are included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

Sample Receipt

L2473538-02: Headspace was noted in the sample container submitted for Carbonate Alkalinity - SM 2320 and Bicarbonate Alkalinity - SM 2320.

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: Kelley Neiff Report Date: 01/27/25

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 : L2473538

Received : 13-DEC-2024
Reviewer : Majid Abdul

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

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	2.1	
B	Absent/	Ice	3.4	
C	Absent/	Ice	4.1	
D	Absent/	Ice	2.8	

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? Following containers were received with headspace: -02K	**NO**
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
Feb 19 2025, 05:36 pm

Login Number: L2473538

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 13DEC24 Due Date: 09JAN25

Sample #	Client ID	Mat	PR	Collected
L2473538-01	PZ-5	S0	1	13DEC24 08:20

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: 01/27/25

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

Sample #	Client ID	Mat	PR	Collected
L2473538-02	MW-5D	S0	1	13DEC24 09:45

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: 01/27/25

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
Feb 19 2025, 05:36 pm

Login Number: L2473538

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 13DEC24 Due Date: 09JAN25

Sample #	Client ID	Mat	PR	Collected
L2473538-03	SCDOH-DR	S0	1	13DEC24 11:20

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: 01/27/25

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
L2473538-04	MW-10S	S0	1	13DEC24 12:43

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: 01/27/25

A2-14-DIOXANESIM-PPB,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
Feb 19 2025, 05:36 pm

Login Number: L2473538

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 13DEC24 Due Date: 09JAN25

Sample #	Client ID	Mat	PR	Collected
L2473538-05	MW-10D		1 S0	13DEC24 12:30

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: 01/27/25

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

L2473538-06	EB_12132024		1 S0	13DEC24 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: 01/27/25

A2-14-DIOXANESIM-PPB

PACE ANALYTICAL SERVICES
LOGIN CHAIN OF CUSTODY REPORT
Feb 19 2025, 05:36 pm

Login Number: L2473538

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 13DEC24 Due Date: 09JAN25

Sample #	Client ID	Mat	PR	Collected
L2473538-07	TRIP BLANK	1	S0	10DEC24 00:00

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: 01/27/25

NYTCL-8260

L2473538-08	MW-10S_R	1	S0	13DEC24 12:43

SUB directly from NJSC to Pace Greensburg Package Due Date: 01/27/25

MS/MSD,SUB-RA226,SUB-RA228,SUB-THORIUM,SUB-URANIUM

L2473538-09	EB_12132024_R	1	S0	13DEC24 13:30

SUB directly from NJSC to Pace Greensburg Package Due Date: 01/27/25

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

Logged By: Kelly ONeill

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 1 of 3

Date Rec'd in Lab: 12/14/24

ALPHA Job #: L2473538

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

Billing Information
☐ Same as Client Info
PO #

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

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL-8260	NYTCL-8270SIM-RVT	TAL600/TAL-2007S	TDS-2540/TSS-2540	Cl-4500/ Er-300	NO3-4500	NO2-4500	TOTALNITROGEN(tkn 351	Sample Specific Comments	Total Bottle
73538-01	PZ-5	12/13/24	820	AQ	JC	X	X	X	X	X	X	X	X		14
-02	MW-5D	12/13/24	945	AQ	JC	X	X	X	X	X	X	X	X		14
-03	SCDOH-DR	12/13/24	1120	AQ	AT	X	X	X	X	X	X	X	X		14
-04	MW-10S	12/13/24	1243	AQ	AT	X	X	X	X	X	X	X	X		16
-05	MW-10D	12/13/24	1230	AQ	JC	X	X	X	X	X	X	X	X		14
-06	EB-12132024	12/13/24	1330	AQ	AT	X	X	X	X	X (MD)					2
-07	TRIP BLANK	12/10/24	LAB	AQ	ML	X									2

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

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

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

Container Type	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
	12/13/24 1440		12/13 15:1
	12/13 17:30		12/13/24 1903
	12/13/24		12/13/24 2230
	12/14/24 0410		12/14 0410

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

Date Rec'd in Lab: 12/14/24

ALPHA Job #: L2478538

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	
13538-01	PZ-5	12/13/24	820	AQ	JC	X	X	X	X	X	X	X			14
-02	MW-5D	12/13/24	945	AQ	JC	X	X	X	X	X	X	X			14
-03	SCDOH-DR	12/13/24	1120	AQ	AF	X	X	X	X	X	X	X			14
-04	MW-10S	12/13/24	1243	AQ	AF	X	X	X	X	X	X	X	X		16
-05	MW-10D	12/13/24	1230	AQ	JC	X	X	X	X	X	X	X			14
-06	FB-12132024	12/13/24	1330	AQ	AF								X		2
-07	TRIP BLANK	12/13/24	LAB	AQ	MC										2

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
	12/13/24 1440		12/13 15:[illegible]
Pace	12/13 17:30		12/13/24 1903
	12/13/24		12/14/24 0110

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NEW YORK CHAIN OF CUSTODY

ALPHA

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

Page 3 of 3

Date Rec'd in Lab: 12/14/24

ALPHA Job #: L2473538

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

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 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
73538-01	P7-5	12/13	810	AQ	JC	X		14
-02	MW-5D	12/13	945	AQ	JC	X		14
-03	SCDOH-DR	12/13	1120	AQ	AI	X		14
-04	MW-10S	12/13	1245	AQ	AI	X		16
-05	MW-10D	12/13	1050	AQ	JC	X		14
-06	GB-12132024	12/13	1330	AQ	AI			2
-07	TRIP BLANK	12/10/24	LAB	AQ	MC			2

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

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

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

Container Type: P
Preservative: C

Relinquished By:	Date/Time	Received By:	Date/Time
	12/13/24 1440		12/13 15:03
PACE	12/13/24 17:30	PACE	12/13/24 1903
PACE	12/14/24 0110		12/14 0110

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.

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Page 1 of 1

Date Rec'd in Lab: 12/14/24

ALPHA Job #: L2473538

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: 46 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

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 Uranium/Thorium/RA226/RA228 Send to PACE Greensburg

Please specify Metals or TAL.

ANALYSIS
Sub-Uranium: HASL 300
Sub-Thorium: HASL 300
Sub-Ra228: 904.0
Sub-RA226: 903.1

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Sub-Uranium	Sub-Thorium	Sub-Ra228	Sub-RA226	Sample Specific Comments	Total Bottle
73528-08	MW-105-R	12/13/24	1243	AQ	AI	X	X	X	X		4
-09	FB_12132024-R	12/13/24	1330	AQ	AI	X	X	X	C		4

Container Type: P P P P
Preservative: C C C C

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

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

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

Relinquished By:	Date/Time	Received By:	Date/Time
	12/13/24 1446		12/13/24 15:22
	12/13 17:30		12/15/24 10:03
	12/13/24		12/13/24 2215
	12/14/24 0110		12/14 0110

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

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

Organics

GC/MS 8260
Analysis

Volatiles QC Summary

Surrogate Recovery Summary
Form 2
Volatiles

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

Lab Number: L2473538
Project Number: 2232.0006Y005
Matrix:

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
PZ-5 (L2473538-01)	105	101	101	104	0
MW-5D (L2473538-02)	105	101	101	103	0
SCDOH-DR (L2473538-03)	104	100	103	105	0
MW-10S (L2473538-04)	106	101	102	106	0
MW-10D (L2473538-05)	106	100	101	105	0
TRIP BLANK (L2473538-07)	104	100	100	104	0
WG2011630-3LCS	98	100	101	104	0
WG2011630-4LCSD	98	99	105	101	0
WG2011630-5BLANK	100	100	102	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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG2011630-3 **Analysis Date** : 12/19/24 07:38	**File ID**	: V22241219A01
LCSD Sample ID	: WG2011630-4 **Analysis Date** : 12/19/24 08:03	**File ID**	: V22241219A02

	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	11	110	10	10	100	10	70-130	20
1,1-Dichloroethane	10	11	110	10	9.9	99	11	70-130	20
Chloroform	10	11	110	10	9.7	97	13	70-130	20
Carbon tetrachloride	10	9.8	98	10	9.3	93	5	63-132	20
1,2-Dichloropropane	10	10	100	10	10	100	0	70-130	20
Dibromochloromethane	10	9.6	96	10	9.1	91	5	63-130	20
1,1,2-Trichloroethane	10	10	100	10	9.7	97	3	70-130	20
Tetrachloroethene	10	10	100	10	9.6	96	4	70-130	20
Chlorobenzene	10	11	110	10	10	100	10	75-130	20
Trichlorofluoromethane	10	9.8	98	10	8.8	88	11	62-150	20
1,2-Dichloroethane	10	10	100	10	9.6	96	4	70-130	20
1,1,1-Trichloroethane	10	10	100	10	9.2	92	8	67-130	20
Bromodichloromethane	10	10	100	10	9.7	97	3	67-130	20
trans-1,3-Dichloropropene	10	9.8	98	10	9.2	92	6	70-130	20
cis-1,3-Dichloropropene	10	10	100	10	9.8	98	2	70-130	20
Bromoform	10	9.2	92	10	9.1	91	1	54-136	20
1,1,2,2-Tetrachloroethane	10	10	100	10	9.9	99	1	67-130	20
Benzene	10	10	100	10	9.5	95	5	70-130	20
Toluene	10	10	100	10	9.9	99	1	70-130	20
Ethylbenzene	10	11	110	10	10	100	10	70-130	20
Chloromethane	10	12	120	10	10	100	18	64-130	20
Bromomethane	10	3.3	33 Q	10	2.7	27 Q	20	39-139	20
Vinyl chloride	10	9.0	90	10	7.6	76	17	55-140	20
Chloroethane	10	7.5	75	10	6.6	66	13	55-138	20
1,1-Dichloroethene	10	11	110	10	9.6	96	14	61-145	20
trans-1,2-Dichloroethene	10	11	110	10	10	100	10	70-130	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG2011630-3 **Analysis Date** : 12/19/24 07:38	**File ID**	: V22241219A01
LCSD Sample ID	: WG2011630-4 **Analysis Date** : 12/19/24 08:03	**File ID**	: V22241219A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Trichloroethene	10	9.5	95	10	9.1	91	4	70-130	20
1,2-Dichlorobenzene	10	11	110	10	10	100	10	70-130	20
1,3-Dichlorobenzene	10	11	110	10	11	110	0	70-130	20
1,4-Dichlorobenzene	10	11	110	10	10	100	10	70-130	20
Methyl tert butyl ether	10	9.8	98	10	9.7	97	1	63-130	20
p/m-Xylene	20	21	105	20	19	95	10	70-130	20
o-Xylene	20	20	100	20	19	95	5	70-130	20
cis-1,2-Dichloroethene	10	11	110	10	10	100	10	70-130	20
Styrene	20	20	100	20	19	95	5	70-130	20
Dichlorodifluoromethane	10	10	100	10	8.9	89	12	36-147	20
Acetone	10	11	110	10	10	100	10	58-148	20
Carbon disulfide	10	11	110	10	10	100	10	51-130	20
2-Butanone	10	12	120	10	12	120	0	63-138	20
4-Methyl-2-pentanone	10	8.5	85	10	8.2	82	4	59-130	20
2-Hexanone	10	9.7	97	10	9.7	97	0	57-130	20
Bromochloromethane	10	11	110	10	10	100	10	70-130	20
1,2-Dibromoethane	10	10	100	10	9.7	97	3	70-130	20
1,2-Dibromo-3-chloropropane	10	9.8	98	10	10	100	2	41-144	20
Isopropylbenzene	10	11	110	10	10	100	10	70-130	20
1,2,3-Trichlorobenzene	10	12	120	10	11	110	9	70-130	20
1,2,4-Trichlorobenzene	10	12	120	10	10	100	18	70-130	20
Methyl Acetate	10	11	110	10	10	100	10	70-130	20
Cyclohexane	10	9.9	99	10	9.2	92	7	70-130	20
Freon-113	10	10	100	10	9.7	97	3	70-130	20
Methyl cyclohexane	10	9.2	92	10	8.5	85	8	70-130	20

Method Blank Summary
Form 4
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG2011630-5	**Lab File ID**	: V22241219A05
Instrument ID	: VOA122		
Matrix	: WATER	**Analysis Date**	: 12/19/24 09:16

Client Sample No.	Lab Sample ID	Analysis Date
WG2011630-3LCS	WG2011630-3	12/19/24 07:38
WG2011630-4LCSD	WG2011630-4	12/19/24 08:03
PZ-5	L2473538-01	12/19/24 15:48
MW-5D	L2473538-02	12/19/24 16:12
SCDOH-DR	L2473538-03	12/19/24 16:36
MW-10S	L2473538-04	12/19/24 17:01
MW-10D	L2473538-05	12/19/24 17:25
TRIP BLANK	L2473538-07	12/19/24 17:50

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: VOA122	**Analysis Date**	: 12/19/24 07:25
Tune Standard	: WG2011630-1	**Tune File ID**	: V22241219ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	19.9
75	30.0 - 80.0% of mass 95	47.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.4 (.5)1
174	Greater than 50.0% of mass 95	82.9
175	5.0 - 9.0% of mass 174	5.9 (7.1)1
176	Greater than 95.0% but less than 101% of mass	79.4 (95.7)1
177	5.0 - 9.0% of mass 176	5.2 (6.6)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG2011630-2CCAL	WG2011630-2	V22241219A01	12/19/24 07:38
WG2011630-3LCS	WG2011630-3	V22241219A01	12/19/24 07:38
WG2011630-4LCSD	WG2011630-4	V22241219A02	12/19/24 08:03
WG2011630-5BLANK	WG2011630-5	V22241219A05	12/19/24 09:16
PZ-5	L2473538-01	V22241219A21	12/19/24 15:48
MW-5D	L2473538-02	V22241219A22	12/19/24 16:12
SCDOH-DR	L2473538-03	V22241219A23	12/19/24 16:36
MW-10S	L2473538-04	V22241219A24	12/19/24 17:01
MW-10D	L2473538-05	V22241219A25	12/19/24 17:25
TRIP BLANK	L2473538-07	V22241219A26	12/19/24 17:50

Internal Standard Area and RT Summary
Form 8a
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: VOA122	**Analysis Date**	: 12/19/24 07:38:00
Sample No	: WG2011630-2	**Lab File ID**	: V22241219A01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG2011630-2	506888	5.94	423029	9.48	228806	12.20
Upper Limit	1013776	6.44	846058	9.98	457612	12.70
Lower Limit	253444	5.44	211515	8.98	114403	11.70
Sample ID						
WG2011630-3 LCS	506888	5.94	423029	9.48	228806	12.20
WG2011630-4 LCSD	542860	5.94	437191	9.48	228259	12.20
WG2011630-5 BLANK	490622	5.94	408489	9.48	212486	12.20
PZ-5	414074	5.94	330967	9.48	171815	12.20
MW-5D	409964	5.94	330446	9.48	170830	12.20
SCDOH-DR	392715	5.94	322396	9.48	163181	12.20
MW-10S	388725	5.94	317023	9.48	162642	12.20
MW-10D	386467	5.94	312159	9.48	159137	12.20
TRIP BLANK	385224	5.94	310775	9.48	160147	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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-01	**Date Collected**	: 12/13/24 08:20
Client ID	: PZ-5	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 15:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22241219A21	**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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-01	**Date Collected**	: 12/13/24 08:20
Client ID	: PZ-5	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 15:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22241219A21	**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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-01	**Date Collected**	: 12/13/24 08:20
Client ID	: PZ-5	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 15:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22241219A21	**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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-02	**Date Collected**	: 12/13/24 09:45
Client ID	: MW-5D	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 16:12
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22241219A22	**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	0.75	1.0	0.14	J
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	0.91	0.50	0.18	
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	0.41	0.50	0.17	J

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-02	**Date Collected**	: 12/13/24 09:45
Client ID	: MW-5D	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 16:12
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22241219A22	**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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-02	**Date Collected**	: 12/13/24 09:45
Client ID	: MW-5D	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 16:12
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22241219A22	**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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-03	**Date Collected**	: 12/13/24 11:20
Client ID	: SCDOH-DR	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 16:36
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22241219A23	**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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-03	**Date Collected**	: 12/13/24 11:20
Client ID	: SCDOH-DR	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 16:36
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22241219A23	**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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-03	**Date Collected**	: 12/13/24 11:20
Client ID	: SCDOH-DR	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 16:36
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22241219A23	**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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-04	**Date Collected**	: 12/13/24 12:43
Client ID	: MW-10S	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 17:01
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22241219A24	**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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-04	**Date Collected**	: 12/13/24 12:43
Client ID	: MW-10S	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 17:01
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22241219A24	**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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-04	**Date Collected**	: 12/13/24 12:43
Client ID	: MW-10S	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 17:01
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22241219A24	**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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-05	**Date Collected**	: 12/13/24 12:30
Client ID	: MW-10D	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 17:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22241219A25	**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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-05	**Date Collected**	: 12/13/24 12:30
Client ID	: MW-10D	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 17:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22241219A25	**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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-05	**Date Collected**	: 12/13/24 12:30
Client ID	: MW-10D	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 17:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22241219A25	**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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-07	**Date Collected**	: 12/10/24 00:00
Client ID	: TRIP BLANK	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 17:50
Sample Matrix	: Trip Blank (aqueous)	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22241219A26	**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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-07	**Date Collected**	: 12/10/24 00:00
Client ID	: TRIP BLANK	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 17:50
Sample Matrix	: Trip Blank (aqueous)	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22241219A26	**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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-07	**Date Collected**	: 12/10/24 00:00
Client ID	: TRIP BLANK	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 17:50
Sample Matrix	: Trip Blank (aqueous)	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22241219A26	**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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2011630-5	**Date Collected**	: NA
Client ID	: WG2011630-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/19/24 09:16
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V22241219A05	**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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2011630-5	**Date Collected**	: NA
Client ID	: WG2011630-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/19/24 09:16
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V22241219A05	**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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2011630-5	**Date Collected**	: NA
Client ID	: WG2011630-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/19/24 09:16
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V22241219A05	**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\241219A\
Data File : V22241219A21.D
Acq On : 19 Dec 2024 03:48 pm
Operator : VOA122:MJV
Sample : L2473538-01,31,10,10,,A
Misc : WG2011630,ICAL21691
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 20 05:59:05 2024
Quant Method : K:\VOA122\2024\241219A\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\241219A\V22241219A01.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	414074	10.000	ug/L	0.00
Standard Area 1 = 506888			Recovery = 81.69%			
62) Chlorobenzene-d5	9.484	117	330967	10.000	ug/L	0.00
Standard Area 1 = 423029			Recovery = 78.24%			
83) 1,4-Dichlorobenzene-d4	12.202	152	171815	10.000	ug/L	0.00
Standard Area 1 = 228806			Recovery = 75.09%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.132	113	147603	10.444	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.44%			
46) 1,2-Dichloroethane-d4	5.649	65	91684	10.498	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.98%			
63) Toluene-d8	7.640	98	422875	10.134	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.34%			
87) 4-Bromofluorobenzene	10.985	95	142194	10.138	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.38%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.763	50	130	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	2.182	64	281	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\241219A\
Data File : V22241219A21.D
Acq On : 19 Dec 2024 03:48 pm
Operator : VOA122:MJV
Sample : L2473538-01,31,10,10,,A
Misc : WG2011630,ICAL21691
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 20 05:59:05 2024
Quant Method : K:\VOA122\2024\241219A\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\241219A\V22241219A01.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	2780	1.963	ug/L #	38
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	6.062	95	210	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	636	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.		

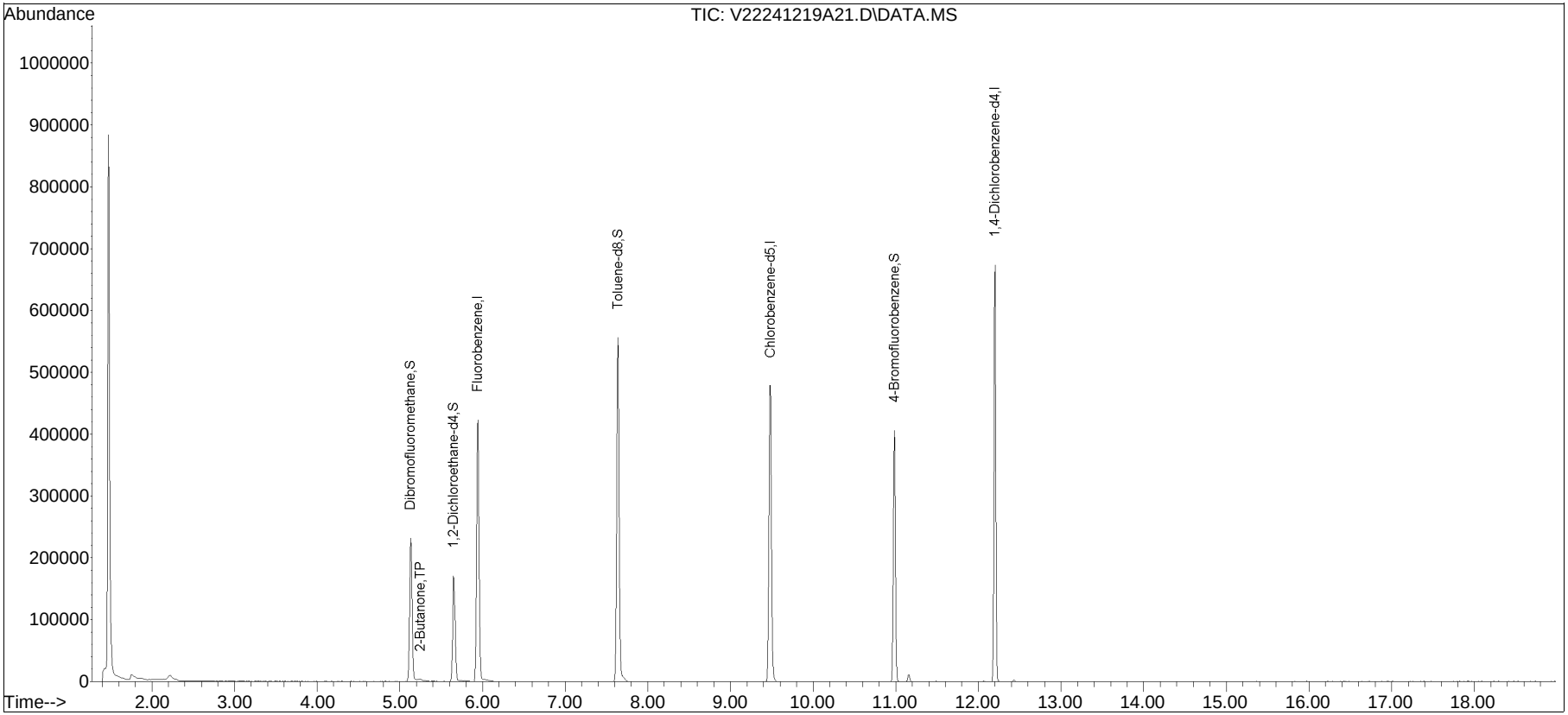
(#) = qualifier out of range (m) = manual integration (+) = signals summed

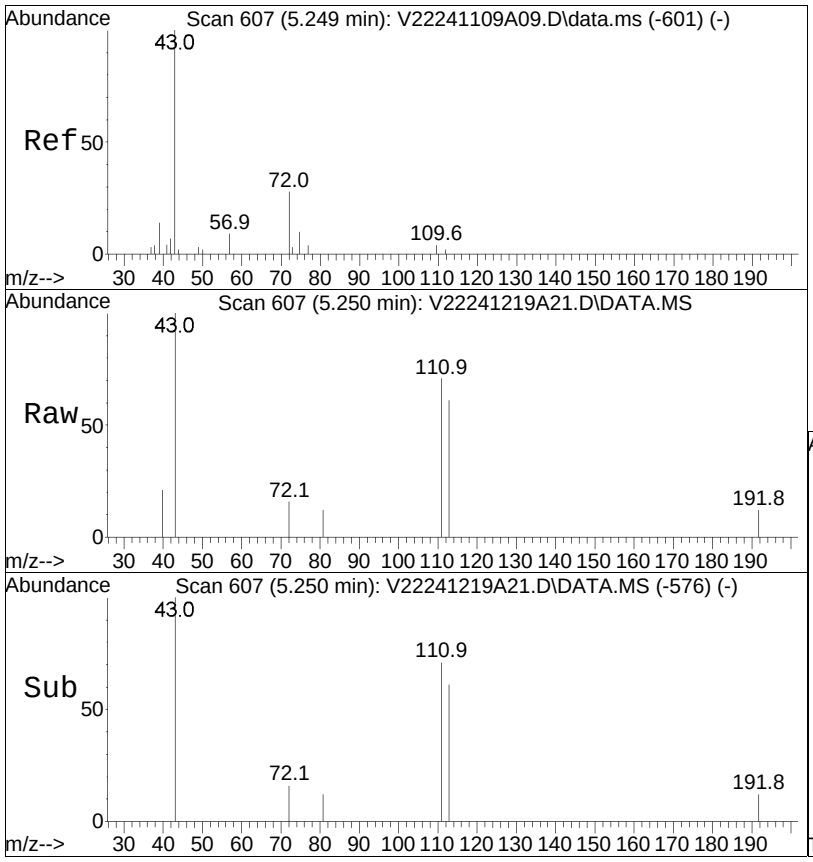
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241219A\
Data File : V22241219A21.D
Acq On : 19 Dec 2024 03:48 pm
Operator : VOA122:MJV
Sample : L2473538-01,31,10,10,,A
Misc : WG2011630,ICAL21691
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 20 05:59:05 2024
Quant Method : K:\VOA122\2024\241219A\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 + NYSTARS1219A01.D•

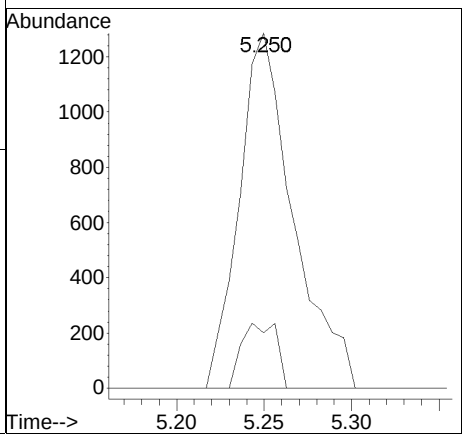




#41
2-Butanone
Concen: 1.96 ug/L
RT: 5.250 min Scan# 607
Delta R.T. 0.000 min
Lab File: V22241219A21.D
Acq: 19 Dec 2024 03:48 pm

Tgt Ion: 43 Resp: 2780

Ion	Ratio	Lower	Upper
43	100		
72	11.8	45.8	68.8#



Manual Integration Report

Data Path	: K:\VOA122\2024\241219A\	QMethod	: V122_241109A_8260.m
Data File	: V22241219A21.D	Operator	: VOA122:MJV
Date Inj'd	: 12/19/2024 3:48 pm	Instrument	: VOA 122
Sample	: L2473538-01,31,10,10,,A	Quant Date	: 12/20/2024 4:42 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241219A\
Data File : V22241219A22.D
Acq On : 19 Dec 2024 04:12 pm
Operator : VOA122:MJV
Sample : L2473538-02,31,10,10,,A
Misc : WG2011630,ICAL21691
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 20 05:59:22 2024
Quant Method : K:\VOA122\2024\241219A\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\241219A\V22241219A01.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	409964	10.000	ug/L	0.00
Standard Area 1 = 506888			Recovery =	80.88%		
62) Chlorobenzene-d5	9.484	117	330446	10.000	ug/L	0.00
Standard Area 1 = 423029			Recovery =	78.11%		
83) 1,4-Dichlorobenzene-d4	12.202	152	170830	10.000	ug/L	0.00
Standard Area 1 = 228806			Recovery =	74.66%		
System Monitoring Compounds						
38) Dibromofluoromethane	5.131	113	143971	10.289	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.89%		
46) 1,2-Dichloroethane-d4	5.649	65	90723	10.492	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery =	104.92%		
63) Toluene-d8	7.640	98	420022	10.082	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.82%		
87) 4-Bromofluorobenzene	10.984	95	140988	10.109	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.09%		
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	0.000		0	N.D. d		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	2.909	96	2381	0.408	ug/L #	92
11) Carbon disulfide	2.942	76	165	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	631	N.D.		
25) 1,1-Dichloroethane	4.181	63	6172	0.532	ug/L	97
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	4.954	83	3374	0.291	ug/L	95
36) Carbon tetrachloride	5.164	117	582	N.D.		

Data Path : K:\VOA122\2024\241219A\
Data File : V22241219A22.D
Acq On : 19 Dec 2024 04:12 pm
Operator : VOA122:MJV
Sample : L2473538-02,31,10,10,,A
Misc : WG2011630,ICAL21691
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 20 05:59:22 2024
Quant Method : K:\VOA122\2024\241219A\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\241219A\V22241219A01.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-Trichloroethane	5.158	97	5770	0.546	ug/L	96
41) 2-Butanone	5.249	43	2565	1.829	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	6.114	95	834	0.142	ug/L #	79
54) 1,2-Dichloropropane	6.667	63	3806	0.751	ug/L	90
57) Bromodichloromethane	0.000		0	N.D.		
61) cis-1,3-Dichloropropene	0.000		0	N.D.		
64) Toluene	7.696	92	139	N.D.		
65) 4-Methyl-2-pentanone	0.000		0	N.D.		
66) Tetrachloroethene	8.147	166	5741	0.914	ug/L	96
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	546	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.		

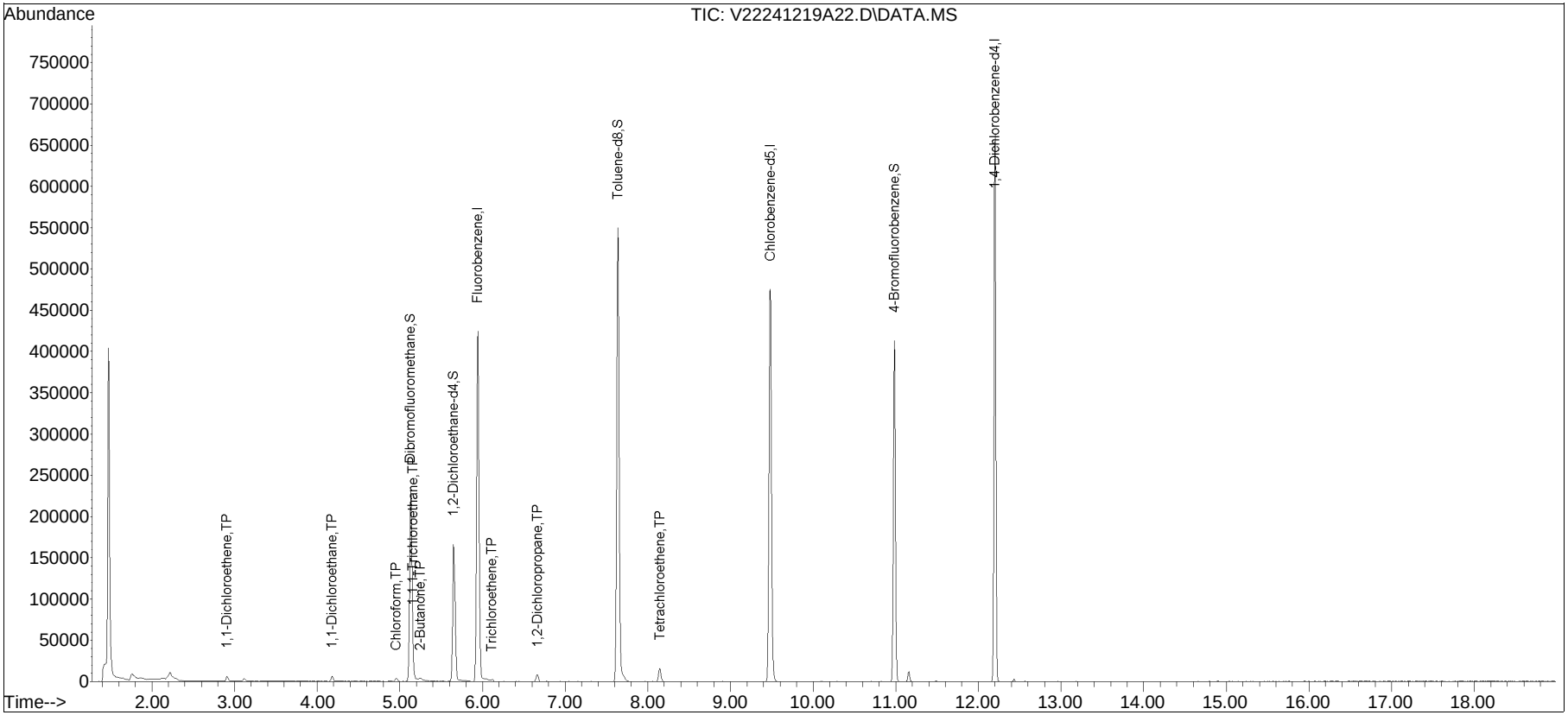
(#) = qualifier out of range (m) = manual integration (+) = signals summed

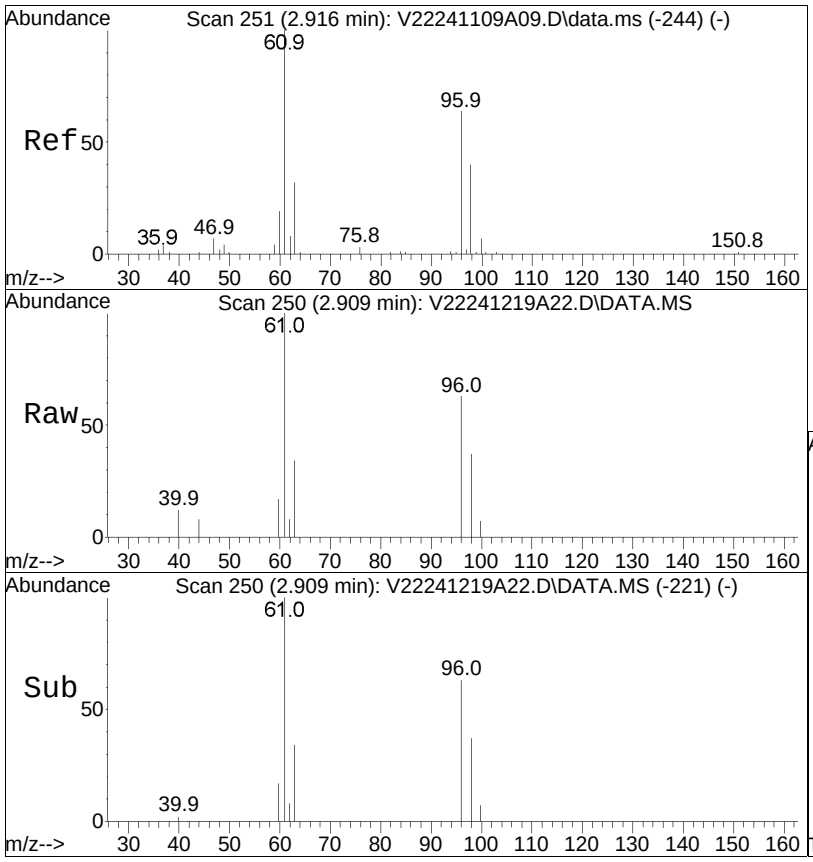
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241219A\
Data File : V22241219A22.D
Acq On : 19 Dec 2024 04:12 pm
Operator : VOA122:MJV
Sample : L2473538-02,31,10,10,,A
Misc : WG2011630,ICAL21691
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 20 05:59:22 2024
Quant Method : K:\VOA122\2024\241219A\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 + NYSTARS1219A01.D•

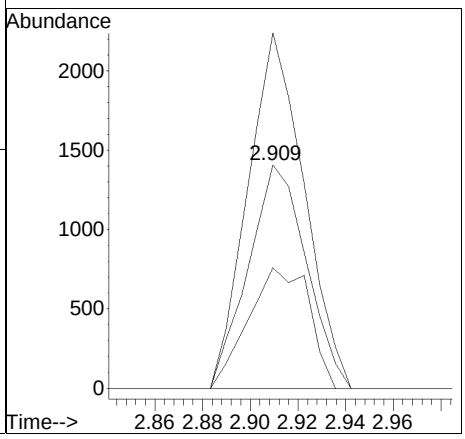


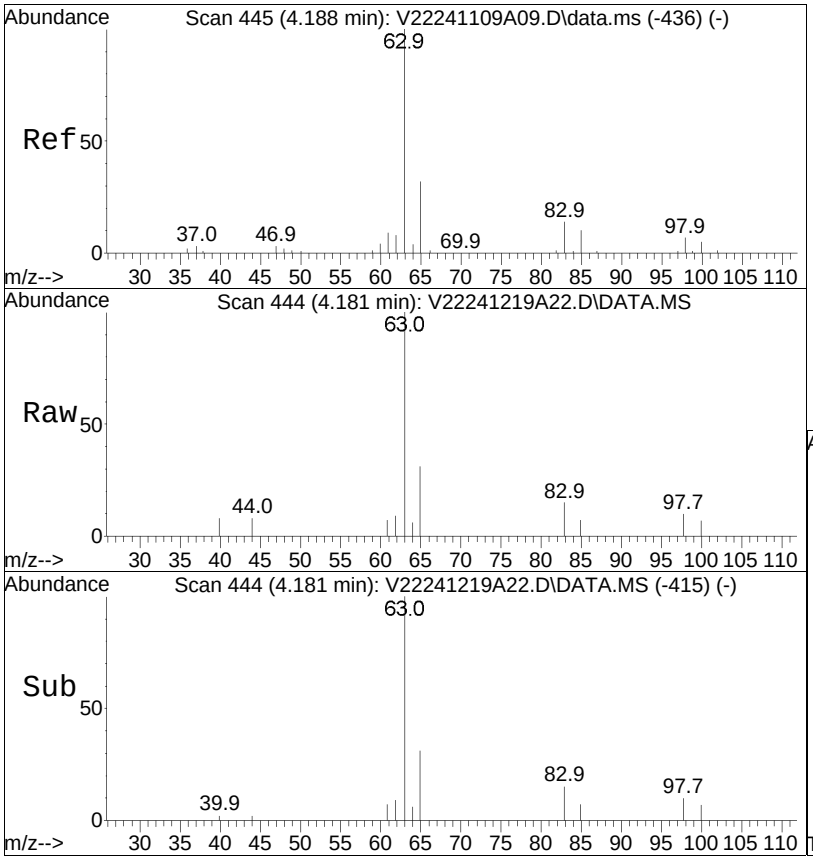


#10
1,1-Dichloroethene
Concen: 0.41 ug/L
RT: 2.909 min Scan# 250
Delta R.T. -0.007 min
Lab File: V22241219A22.D
Acq: 19 Dec 2024 04:12 pm

Tgt Ion: 96 Resp: 2381

Ion	Ratio	Lower	Upper
96	100		
61	154.1	117.0	175.4
63	56.7	37.8	56.6#

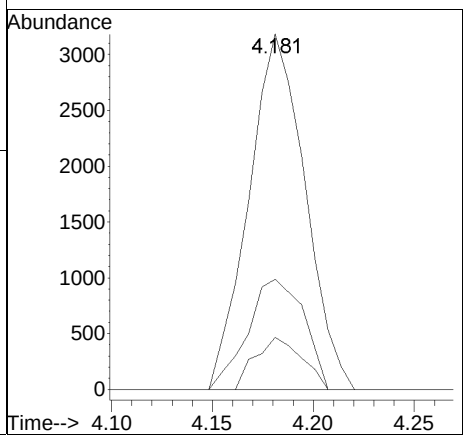


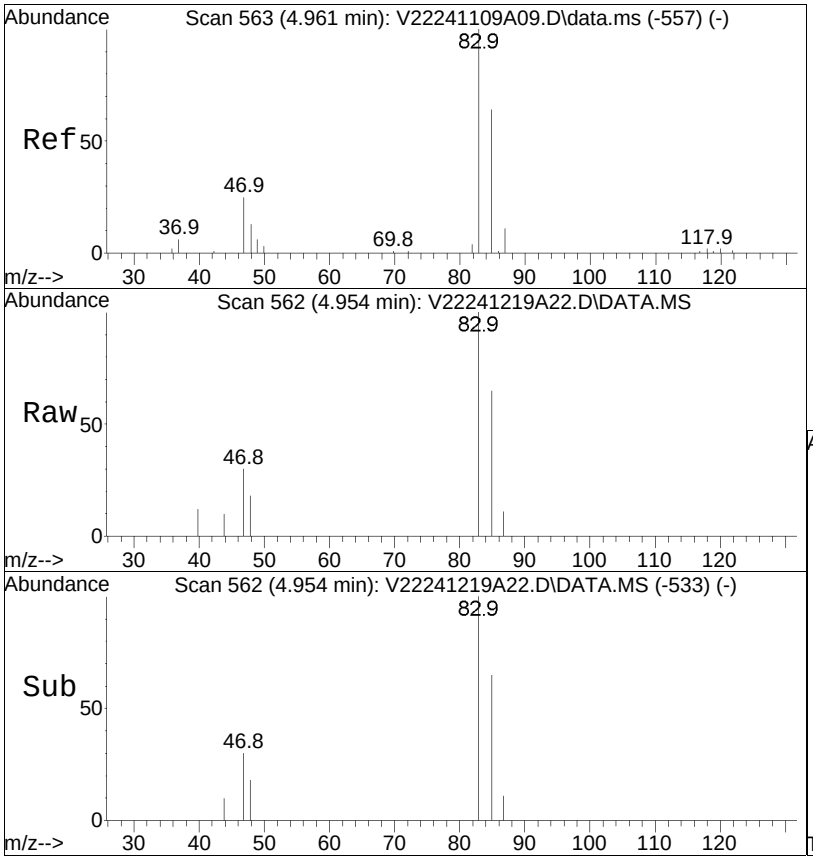


#25
1,1-Dichloroethane
Concen: 0.53 ug/L
RT: 4.181 min Scan# 444
Delta R.T. -0.007 min
Lab File: V22241219A22.D
Acq: 19 Dec 2024 04:12 pm

Tgt Ion: 63 Resp: 6172

Ion	Ratio	Lower	Upper
63	100		
65	31.0	11.9	51.9
83	12.2	0.0	34.2

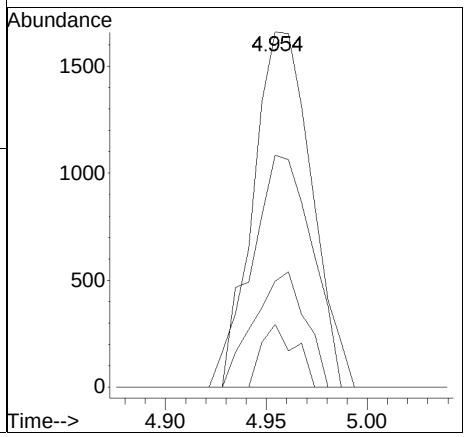


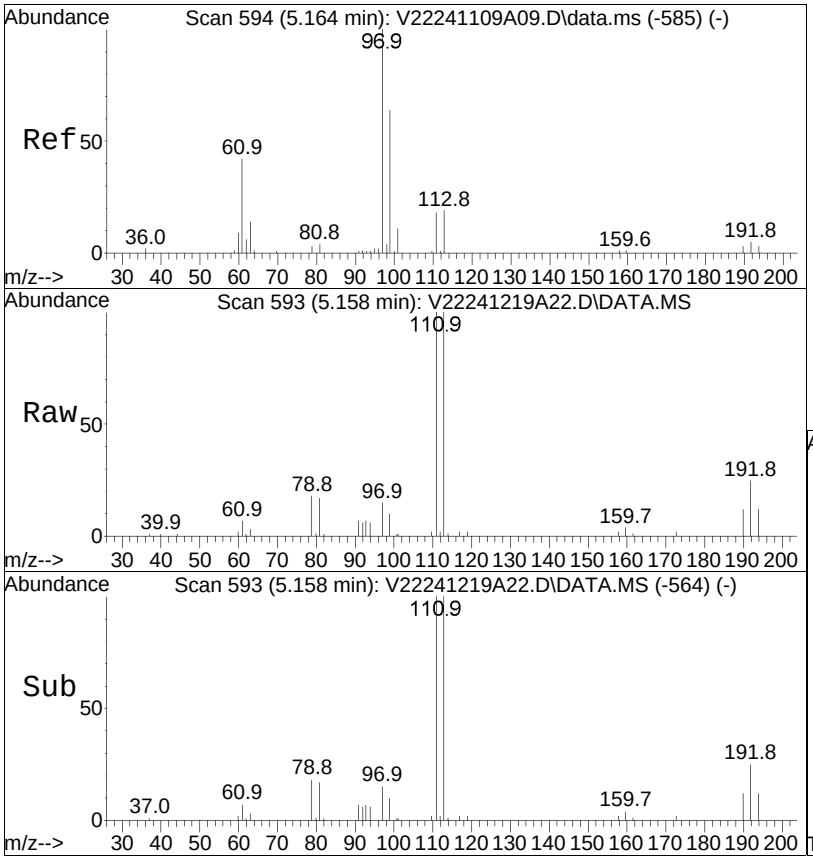


#34
Chloroform
Concen: 0.29 ug/L
RT: 4.954 min Scan# 562
Delta R.T. -0.007 min
Lab File: V22241219A22.D
Acq: 19 Dec 2024 04:12 pm

Tgt Ion: 83 Resp: 3374

Ion	Ratio	Lower	Upper
83	100		
85	67.1	42.4	88.2
47	28.3	14.0	29.0
48	10.3	6.9	14.3

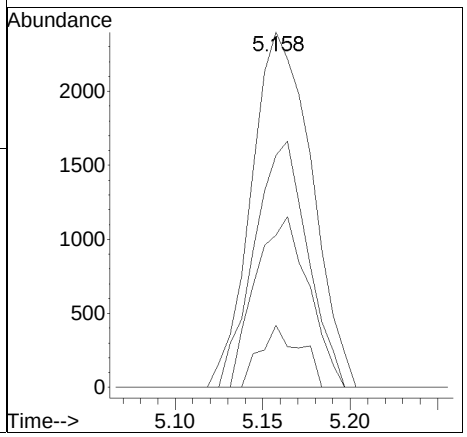


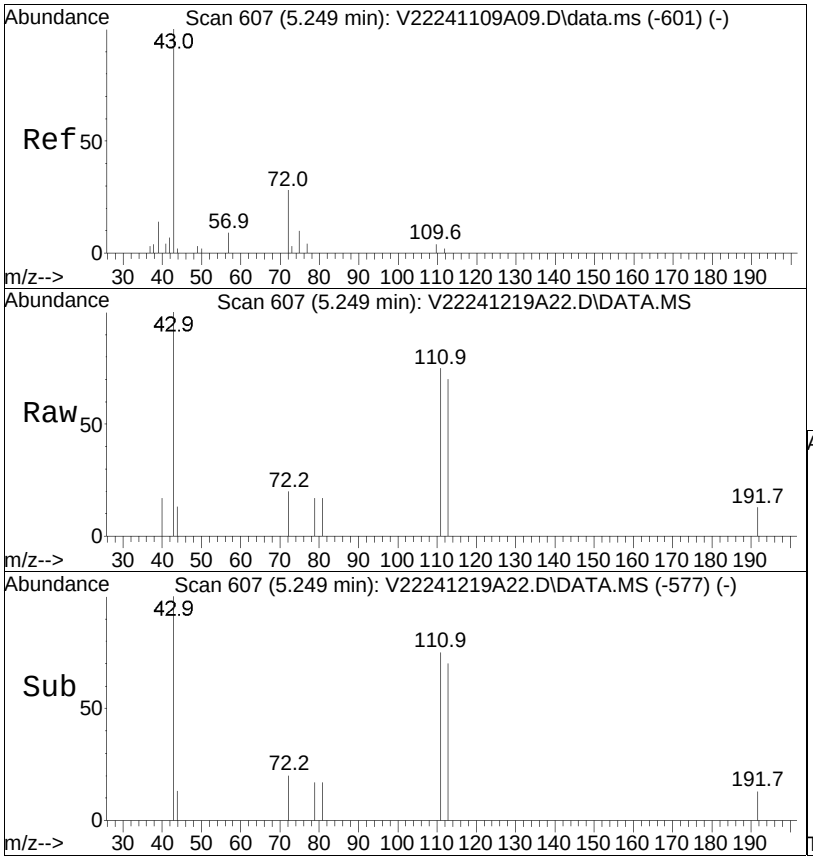


#39
1,1,1-Trichloroethane
Concen: 0.55 ug/L
RT: 5.158 min Scan# 593
Delta R.T. -0.007 min
Lab File: V22241219A22.D
Acq: 19 Dec 2024 04:12 pm

Tgt Ion: 97 Resp: 5770

Ion	Ratio	Lower	Upper
97	100		
99	61.3	42.4	88.0
61	42.6	26.0	54.0
63	11.8	8.3	17.3

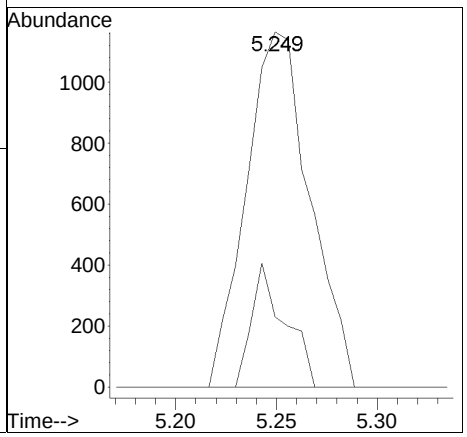


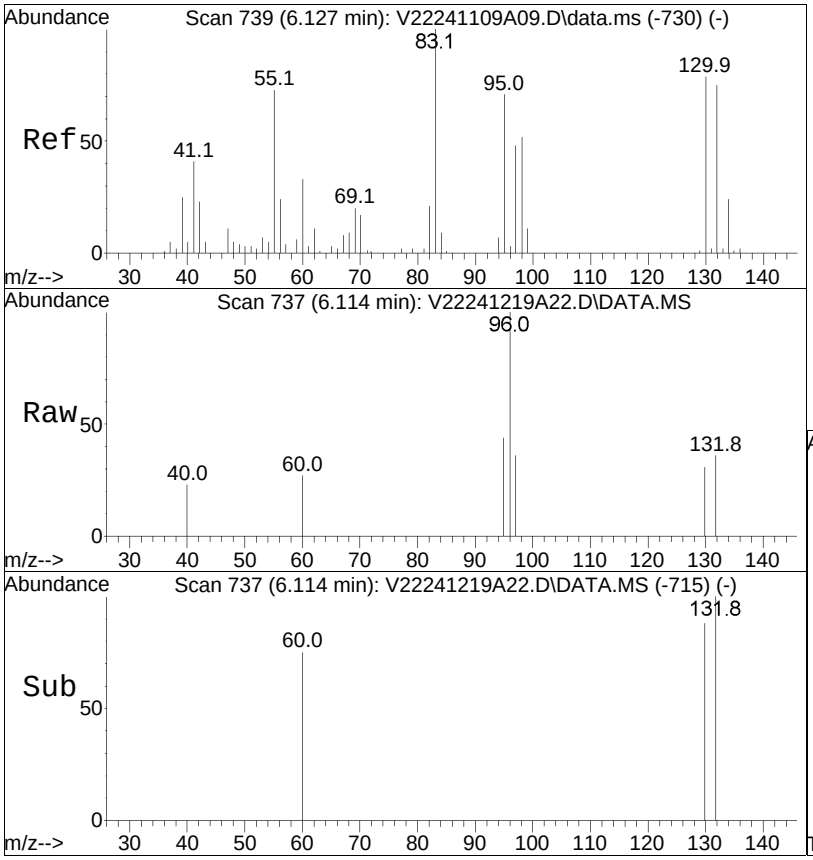


#41
2-Butanone
Concen: 1.83 ug/L
RT: 5.249 min Scan# 607
Delta R.T. -0.000 min
Lab File: V22241219A22.D
Acq: 19 Dec 2024 04:12 pm

Tgt Ion: 43 Resp: 2565

Ion	Ratio	Lower	Upper
43	100		
72	18.4	45.8	68.8#

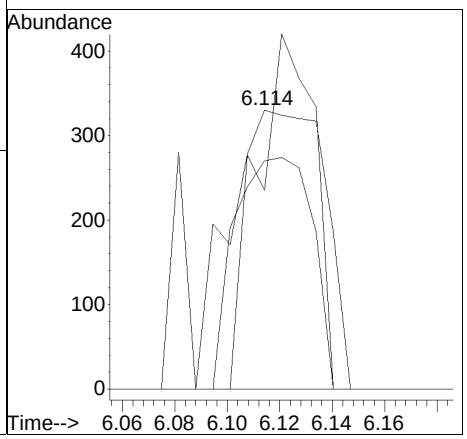


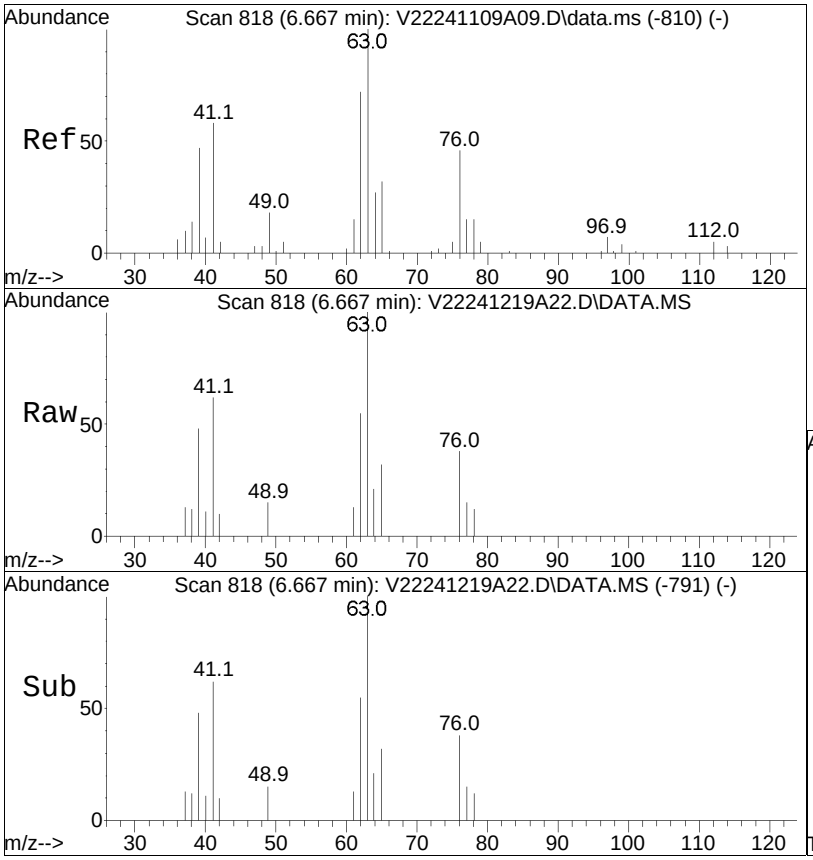


#51
Trichloroethene
Concen: 0.14 ug/L
RT: 6.114 min Scan# 737
Delta R.T. -0.013 min
Lab File: V22241219A22.D
Acq: 19 Dec 2024 04:12 pm

Tgt Ion: 95 Resp: 834

Ion	Ratio	Lower	Upper
95	100		
97	67.0	55.0	82.4
130	77.0	89.2	133.8#

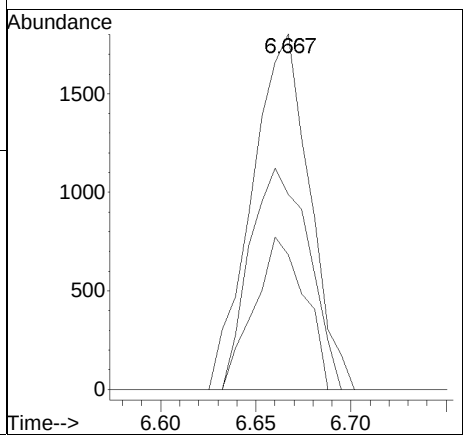


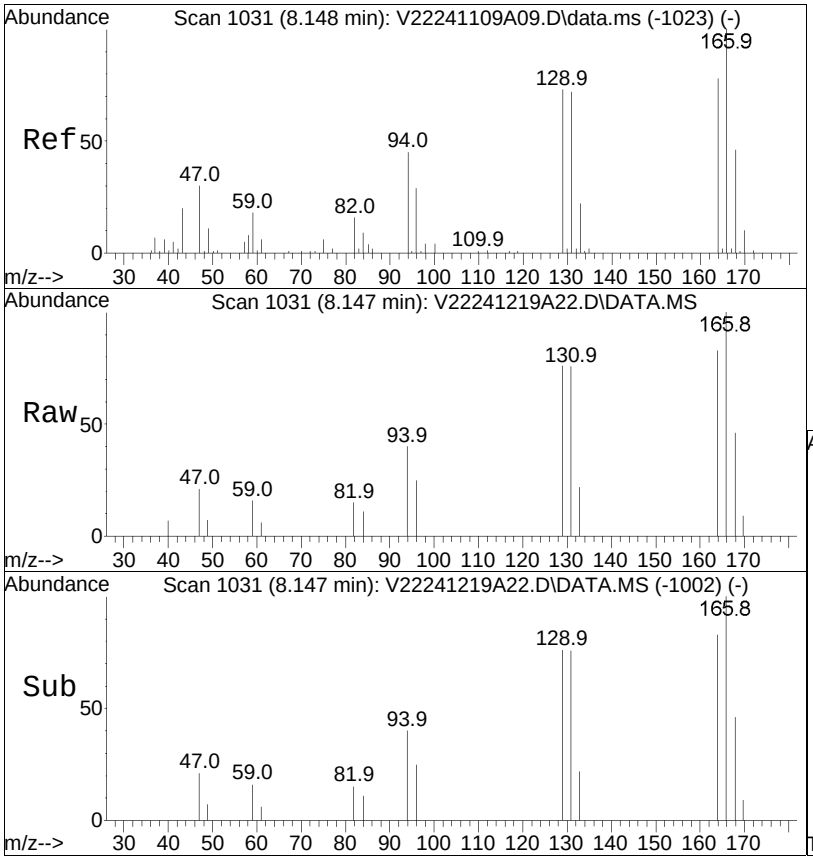


#54
1,2-Dichloropropane
Concen: 0.75 ug/L
RT: 6.667 min Scan# 818
Delta R.T. -0.000 min
Lab File: V22241219A22.D
Acq: 19 Dec 2024 04:12 pm

Tgt Ion: 63 Resp: 3806

Ion	Ratio	Lower	Upper
63	100		
62	63.7	56.9	85.3
76	37.4	35.8	53.8

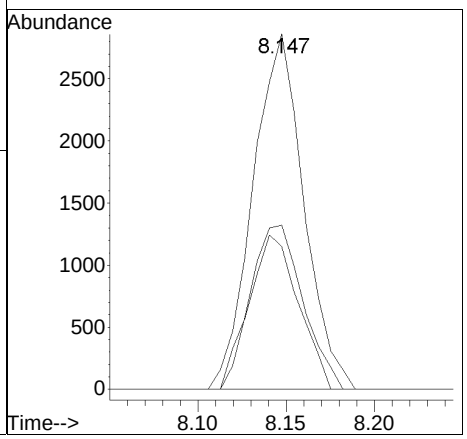




#66
Tetrachloroethene
Concen: 0.91 ug/L
RT: 8.147 min Scan# 1031
Delta R.T. -0.000 min
Lab File: V22241219A22.D
Acq: 19 Dec 2024 04:12 pm

Tgt Ion:166 Resp: 5741

Ion	Ratio	Lower	Upper
166	100		
168	47.6	27.8	67.8
94	42.3	16.7	56.7



Manual Integration Report

Data Path	: K:\VOA122\2024\241219A\	QMethod	: V122_241109A_8260.m
Data File	: V22241219A22.D	Operator	: VOA122:MJV
Date Inj'd	: 12/19/2024 4:12 pm	Instrument	: VOA 122
Sample	: L2473538-02,31,10,10,,A	Quant Date	: 12/20/2024 4:42 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241219A\
Data File : V22241219A23.D
Acq On : 19 Dec 2024 04:36 pm
Operator : VOA122:MJV
Sample : L2473538-03,31,10,10,,A
Misc : WG2011630,ICAL21691
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 20 05:59:48 2024
Quant Method : K:\VOA122\2024\241219A\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\241219A\V22241219A01.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	392715	10.000	ug/L	0.00
Standard Area 1 = 506888			Recovery = 77.48%			
62) Chlorobenzene-d5	9.484	117	322396	10.000	ug/L	0.00
Standard Area 1 = 423029			Recovery = 76.21%			
83) 1,4-Dichlorobenzene-d4	12.202	152	163181	10.000	ug/L	0.00
Standard Area 1 = 228806			Recovery = 71.32%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.131	113	141057	10.524	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.24%			
46) 1,2-Dichloroethane-d4	5.649	65	86366	10.427	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.27%			
63) Toluene-d8	7.640	98	408453	10.049	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.49%			
87) 4-Bromofluorobenzene	10.984	95	136864	10.274	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.74%			
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	2.175	94	62	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	2.942	76	74	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	1443	0.134	ug/L #	66
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	4.948	83	1765	0.159	ug/L #	90
36) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA122\2024\241219A\
Data File : V22241219A23.D
Acq On : 19 Dec 2024 04:36 pm
Operator : VOA122:MJV
Sample : L2473538-03,31,10,10,,A
Misc : WG2011630,ICAL21691
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 20 05:59:48 2024
Quant Method : K:\VOA122\2024\241219A\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\241219A\V22241219A01.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	2387	1.777	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	6.055	95	205	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	8.147	166	148	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	442	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.		

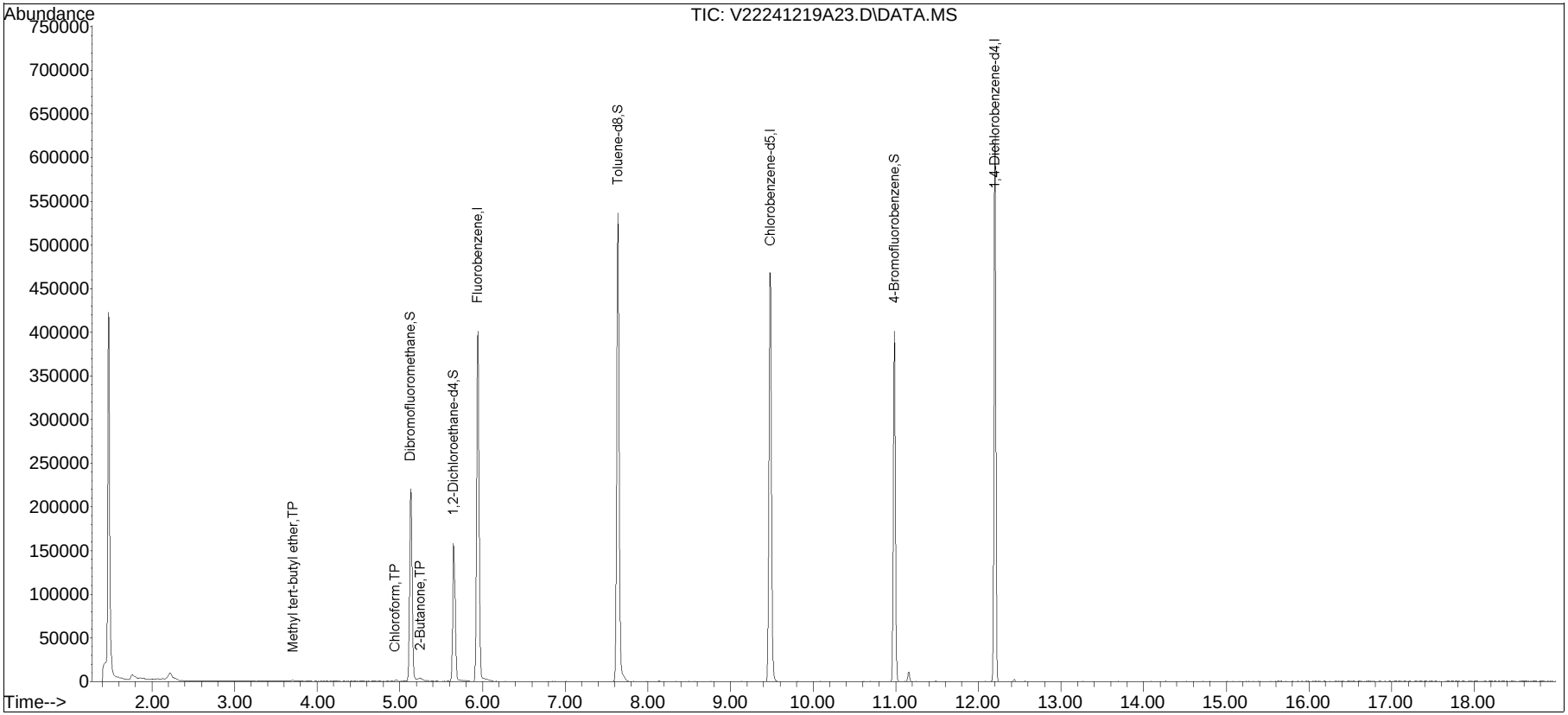
(#) = qualifier out of range (m) = manual integration (+) = signals summed

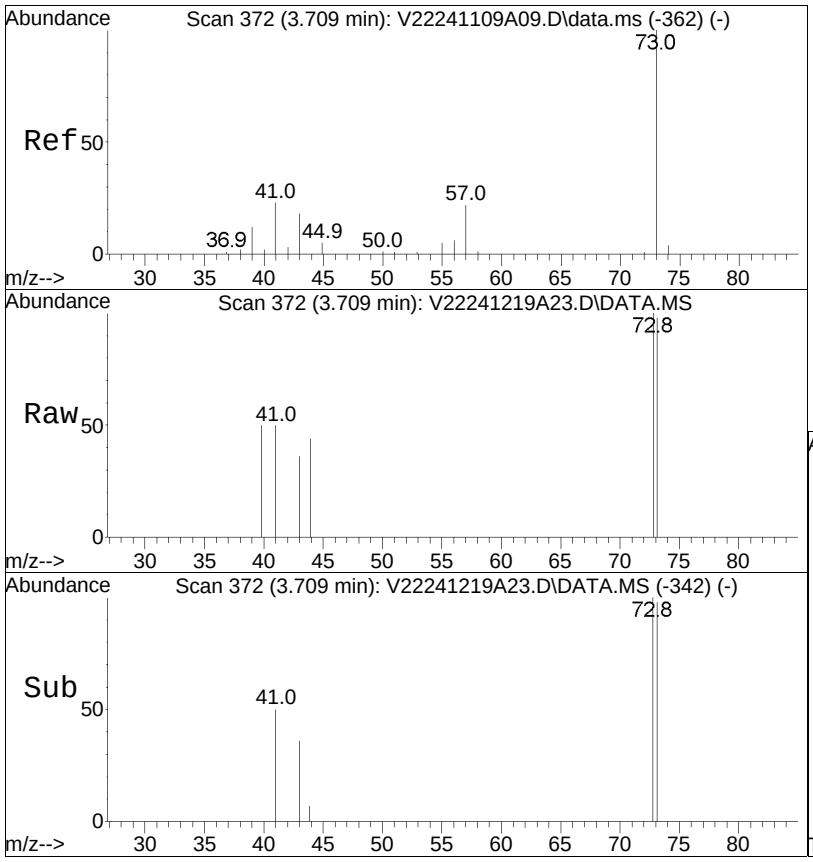
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241219A\
Data File : V22241219A23.D
Acq On : 19 Dec 2024 04:36 pm
Operator : VOA122:MJV
Sample : L2473538-03,31,10,10,,A
Misc : WG2011630,ICAL21691
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 20 05:59:48 2024
Quant Method : K:\VOA122\2024\241219A\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 + NYSTARS1219A01.D•

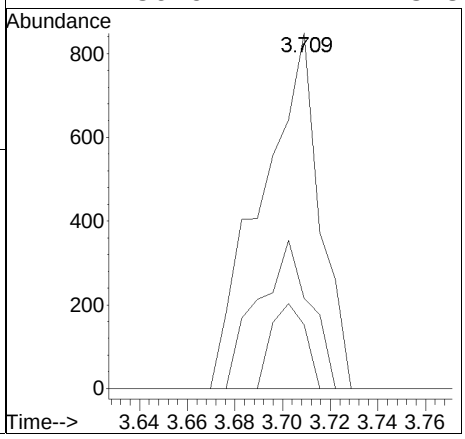


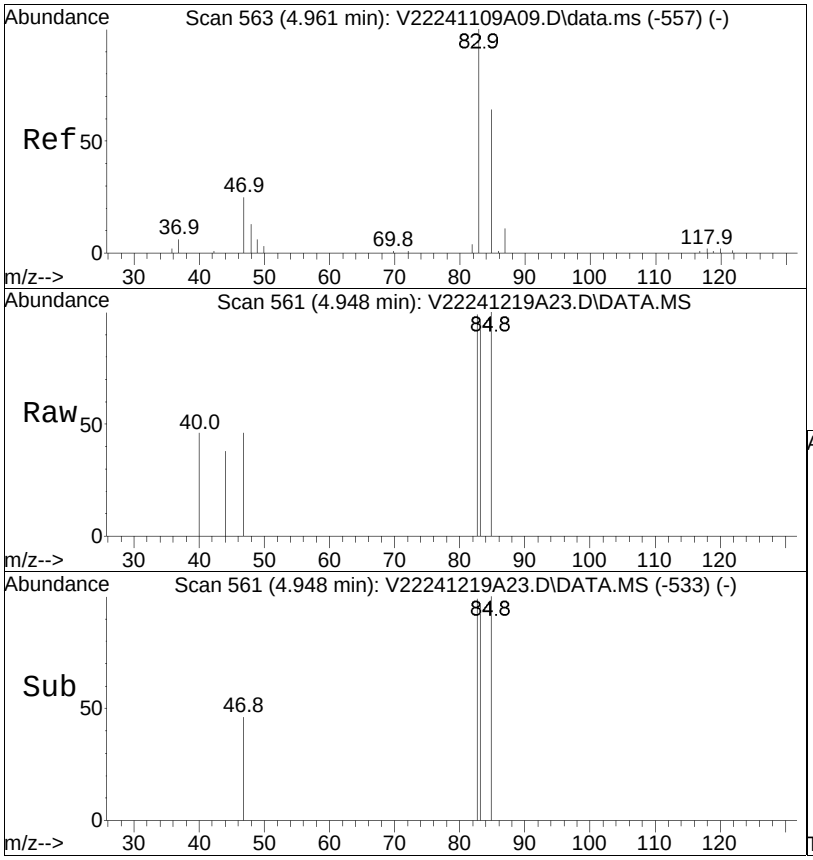


#21
Methyl tert-butyl ether
Concen: 0.13 ug/L
RT: 3.709 min Scan# 372
Delta R.T. -0.000 min
Lab File: V22241219A23.D
Acq: 19 Dec 2024 04:36 pm

Tgt Ion: 73 Resp: 1443

Ion	Ratio	Lower	Upper
73	100		
57	0.0	13.6	28.2#
43	14.0	12.7	26.5
41	36.9	11.4	23.8#

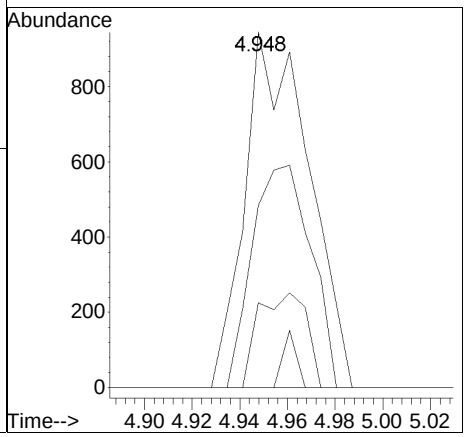


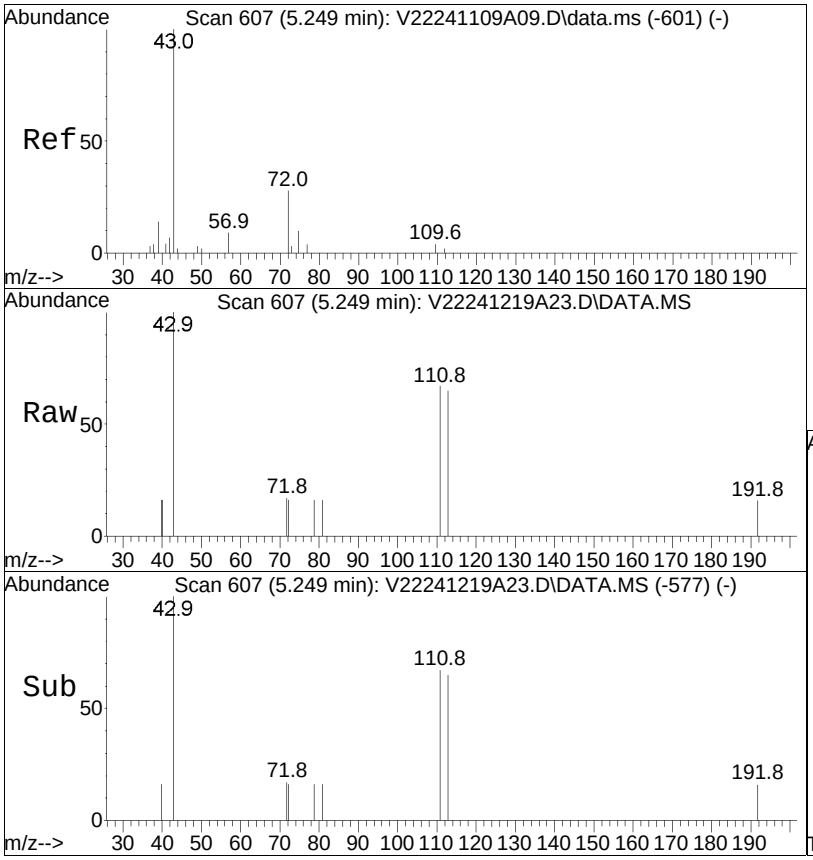


#34
Chloroform
Concen: 0.16 ug/L
RT: 4.948 min Scan# 561
Delta R.T. -0.013 min
Lab File: V22241219A23.D
Acq: 19 Dec 2024 04:36 pm

Tgt Ion: 83 Resp: 1765

Ion	Ratio	Lower	Upper
83	100		
85	57.2	42.4	88.2
47	20.0	14.0	29.0
48	3.4	6.9	14.3#

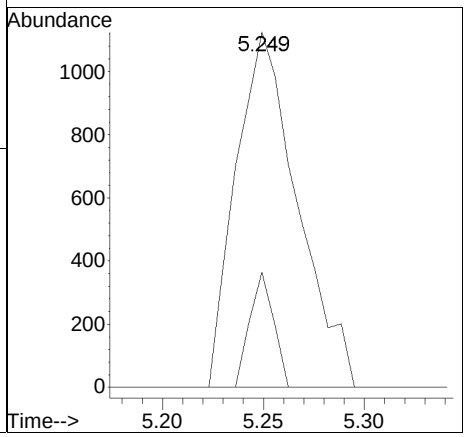




#41
2-Butanone
Concen: 1.78 ug/L
RT: 5.249 min Scan# 607
Delta R.T. -0.000 min
Lab File: V22241219A23.D
Acq: 19 Dec 2024 04:36 pm

Tgt Ion: 43 Resp: 2387

Ion	Ratio	Lower	Upper
43	100		
72	12.6	45.8	68.8#



Manual Integration Report

Data Path	: K:\VOA122\2024\241219A\	QMethod	: V122_241109A_8260.m
Data File	: V22241219A23.D	Operator	: VOA122:MJV
Date Inj'd	: 12/19/2024 4:36 pm	Instrument	: VOA 122
Sample	: L2473538-03,31,10,10,,A	Quant Date	: 12/20/2024 4:42 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241219A\
Data File : V22241219A24.D
Acq On : 19 Dec 2024 05:01 pm
Operator : VOA122:MJV
Sample : L2473538-04,31,10,10,,A
Misc : WG2011630,ICAL21691
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 20 06:00:09 2024
Quant Method : K:\VOA122\2024\241219A\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\241219A\V22241219A01.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	388725	10.000	ug/L	0.00
Standard Area 1 = 506888			Recovery = 76.69%			
62) Chlorobenzene-d5	9.484	117	317023	10.000	ug/L	0.00
Standard Area 1 = 423029			Recovery = 74.94%			
83) 1,4-Dichlorobenzene-d4	12.202	152	162642	10.000	ug/L	0.00
Standard Area 1 = 228806			Recovery = 71.08%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.131	113	141239	10.645	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.45%			
46) 1,2-Dichloroethane-d4	5.649	65	86772	10.584	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.84%			
63) Toluene-d8	7.640	98	403972	10.107	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.07%			
87) 4-Bromofluorobenzene	10.984	95	134944	10.163	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.63%			
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	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.		

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241219A\
Data File : V22241219A24.D
Acq On : 19 Dec 2024 05:01 pm
Operator : VOA122:MJV
Sample : L2473538-04,31,10,10,,A
Misc : WG2011630,ICAL21691
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 20 06:00:09 2024
Quant Method : K:\VOA122\2024\241219A\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\241219A\V22241219A01.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	2476	1.862	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.	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	611	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.			

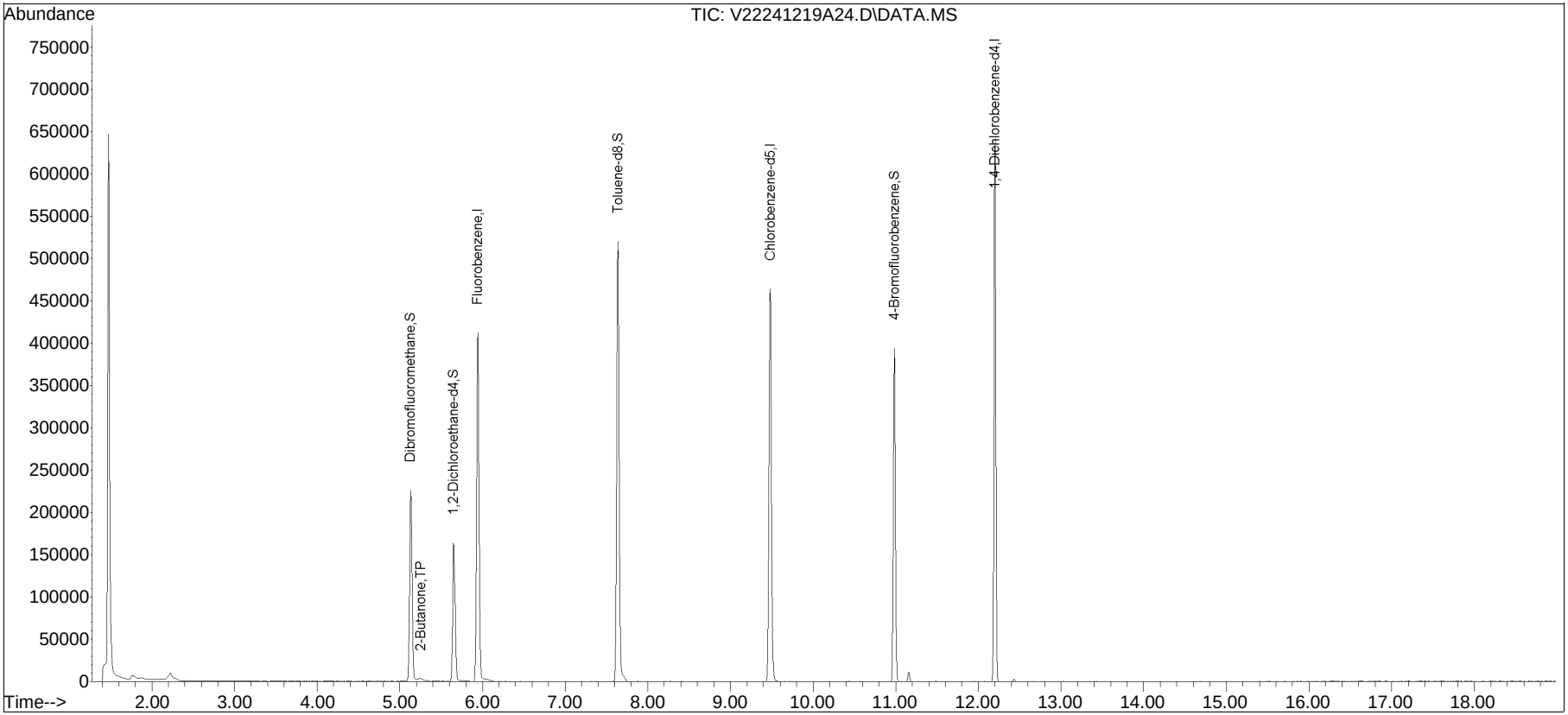
(#) = qualifier out of range (m) = manual integration (+) = signals summed

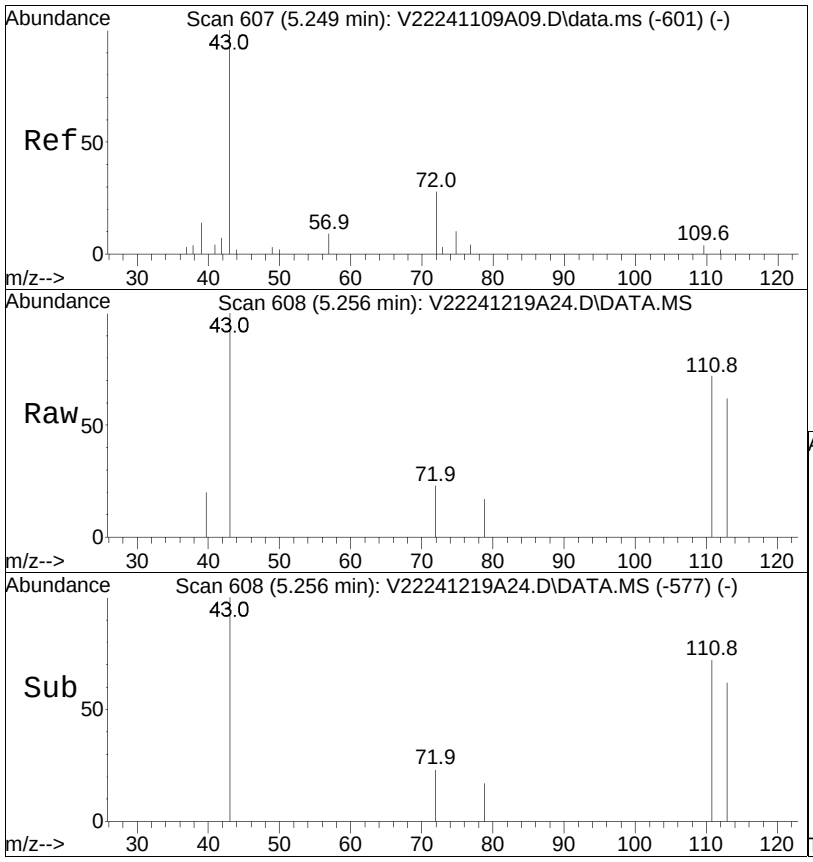
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241219A\
Data File : V22241219A24.D
Acq On : 19 Dec 2024 05:01 pm
Operator : VOA122:MJV
Sample : L2473538-04,31,10,10,,A
Misc : WG2011630,ICAL21691
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 20 06:00:09 2024
Quant Method : K:\VOA122\2024\241219A\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 + NYSTARS1219A01.D•

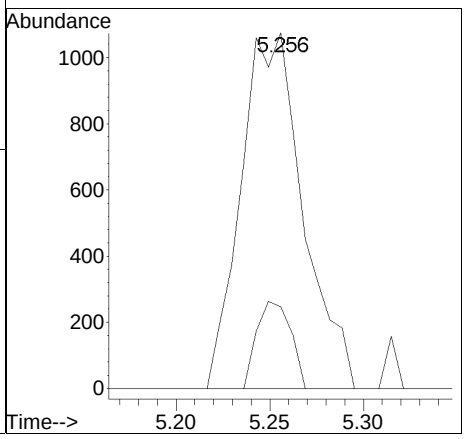




#41
2-Butanone
Concen: 1.86 ug/L
RT: 5.256 min Scan# 608
Delta R.T. 0.006 min
Lab File: V22241219A24.D
Acq: 19 Dec 2024 05:01 pm

Tgt Ion: 43 Resp: 2476

Ion	Ratio	Lower	Upper
43	100		
72	13.4	45.8	68.8#



Manual Integration Report

Data Path	: K:\VOA122\2024\241219A\	QMethod	: V122_241109A_8260.m
Data File	: V22241219A24.D	Operator	: VOA122:MJV
Date Inj'd	: 12/19/2024 5:01 pm	Instrument	: VOA 122
Sample	: L2473538-04,31,10,10,,A	Quant Date	: 12/20/2024 4:42 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241219A\
Data File : V22241219A25.D
Acq On : 19 Dec 2024 05:25 pm
Operator : VOA122:MJV
Sample : L2473538-05,31,10,10,,A
Misc : WG2011630,ICAL21691
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 20 06:00:23 2024
Quant Method : K:\VOA122\2024\241219A\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\241219A\V22241219A01.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	386467	10.000	ug/L	0.00
Standard Area 1 = 506888			Recovery = 76.24%			
62) Chlorobenzene-d5	9.484	117	312159	10.000	ug/L	0.00
Standard Area 1 = 423029			Recovery = 73.79%			
83) 1,4-Dichlorobenzene-d4	12.202	152	159137	10.000	ug/L	0.00
Standard Area 1 = 228806			Recovery = 69.55%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.131	113	138222	10.479	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.79%			
46) 1,2-Dichloroethane-d4	5.649	65	86451	10.606	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.06%			
63) Toluene-d8	7.640	98	395413	10.047	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.47%			
87) 4-Bromofluorobenzene	10.984	95	130920	10.077	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.77%			
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	2.287	64	203	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.949	76	59	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\241219A\
Data File : V22241219A25.D
Acq On : 19 Dec 2024 05:25 pm
Operator : VOA122:MJV
Sample : L2473538-05,31,10,10,,A
Misc : WG2011630,ICAL21691
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 20 06:00:23 2024
Quant Method : K:\VOA122\2024\241219A\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\241219A\V22241219A01.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	2337	1.768	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	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	443	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.		

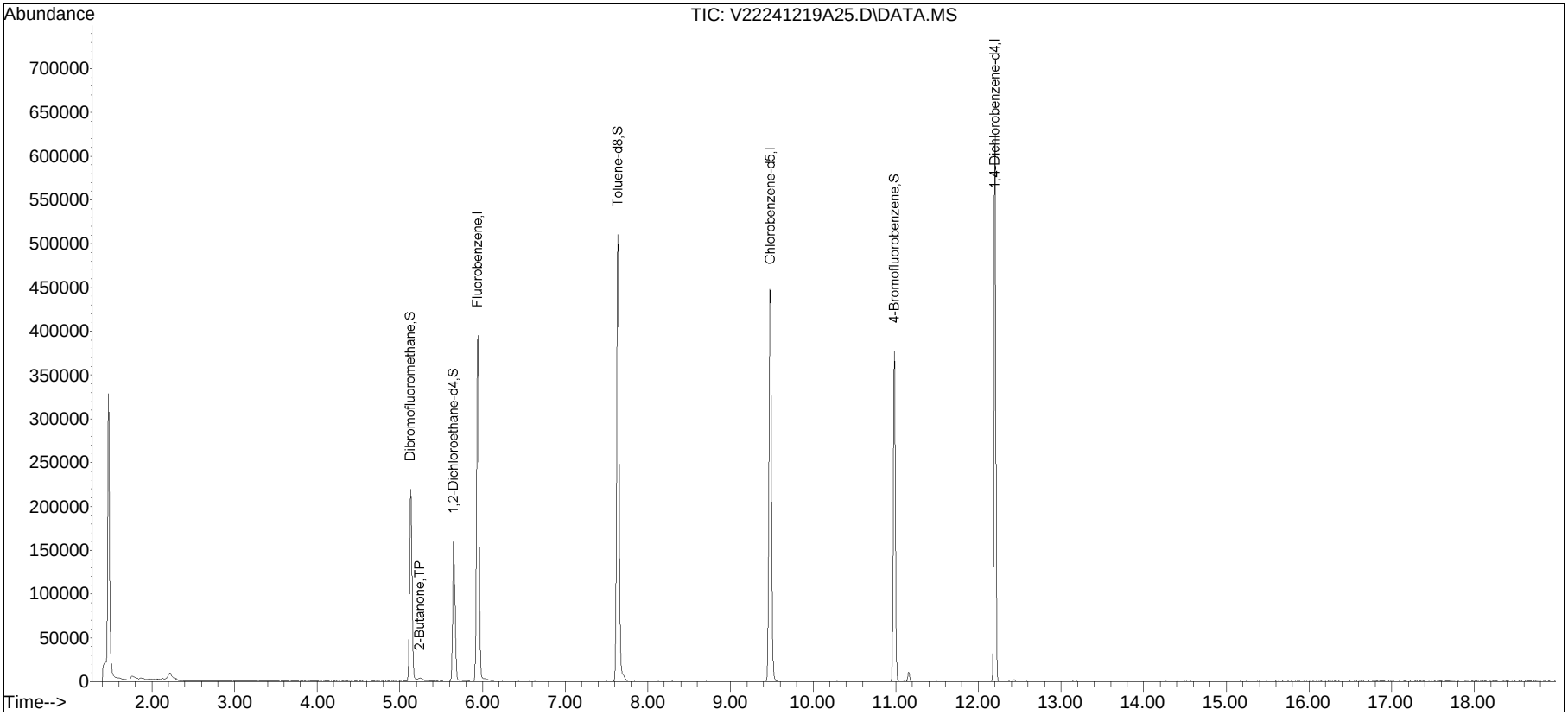
(#) = qualifier out of range (m) = manual integration (+) = signals summed

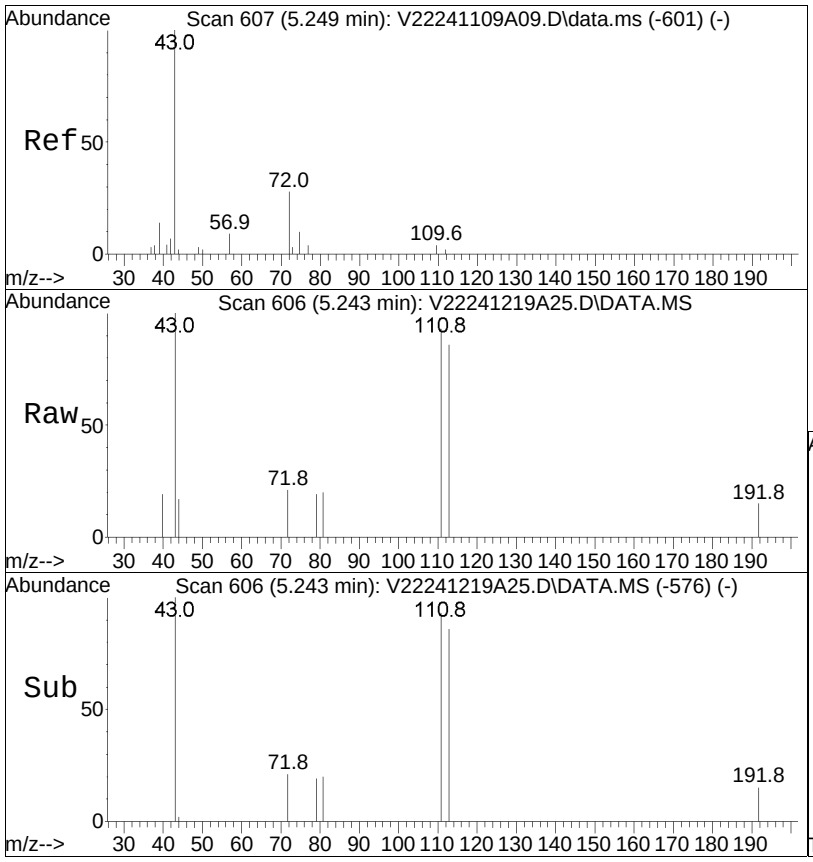
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241219A\
Data File : V22241219A25.D
Acq On : 19 Dec 2024 05:25 pm
Operator : VOA122:MJV
Sample : L2473538-05,31,10,10,,A
Misc : WG2011630,ICAL21691
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 20 06:00:23 2024
Quant Method : K:\VOA122\2024\241219A\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 + NYSTARS1219A01.D•

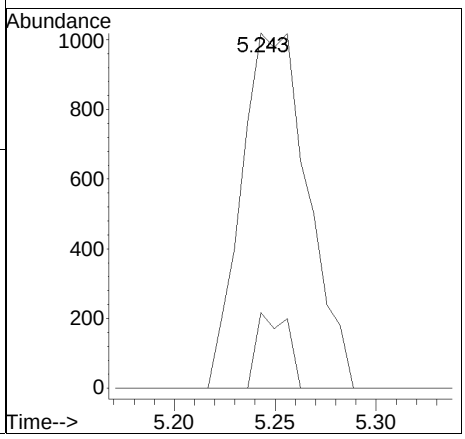




#41
2-Butanone
Concen: 1.77 ug/L
RT: 5.243 min Scan# 606
Delta R.T. -0.007 min
Lab File: V22241219A25.D
Acq: 19 Dec 2024 05:25 pm

Tgt Ion: 43 Resp: 2337

Ion	Ratio	Lower	Upper
43	100		
72	9.9	45.8	68.8#



Manual Integration Report

Data Path	: K:\VOA122\2024\241219A\	QMethod	: V122_241109A_8260.m
Data File	: V22241219A25.D	Operator	: VOA122:MJV
Date Inj'd	: 12/19/2024 5:25 pm	Instrument	: VOA 122
Sample	: L2473538-05,31,10,10,,A	Quant Date	: 12/20/2024 4:42 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241219A\
Data File : V22241219A26.D
Acq On : 19 Dec 2024 05:50 pm
Operator : VOA122:MJV
Sample : L2473538-07,31,10,10,,A
Misc : WG2011630,ICAL21691
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 20 06:00:39 2024
Quant Method : K:\VOA122\2024\241219A\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\241219A\V22241219A01.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	385224	10.000	ug/L	0.00
Standard Area 1 = 506888			Recovery = 76.00%			
62) Chlorobenzene-d5	9.483	117	310775	10.000	ug/L	0.00
Standard Area 1 = 423029			Recovery = 73.46%			
83) 1,4-Dichlorobenzene-d4	12.201	152	160147	10.000	ug/L	0.00
Standard Area 1 = 228806			Recovery = 69.99%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.131	113	136664	10.394	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.94%			
46) 1,2-Dichloroethane-d4	5.649	65	84724	10.428	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.28%			
63) Toluene-d8	7.640	98	393042	10.031	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.31%			
87) 4-Bromofluorobenzene	10.984	95	130111	9.952	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.52%			
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	2.936	76	69	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\241219A\
Data File : V22241219A26.D
Acq On : 19 Dec 2024 05:50 pm
Operator : VOA122:MJV
Sample : L2473538-07,31,10,10,,A
Misc : WG2011630,ICAL21691
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 20 06:00:39 2024
Quant Method : K:\VOA122\2024\241219A\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\241219A\V22241219A01.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	2495	1.893	ug/L #	41
44)	Benzene	5.531	78	139	N.D.		
47)	1,2-Dichloroethane	0.000		0	N.D.		
50)	Methyl cyclohexane	0.000		0	N.D.		
51)	Trichloroethene	6.022	95	290	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	360	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	9.483	91	502	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.		

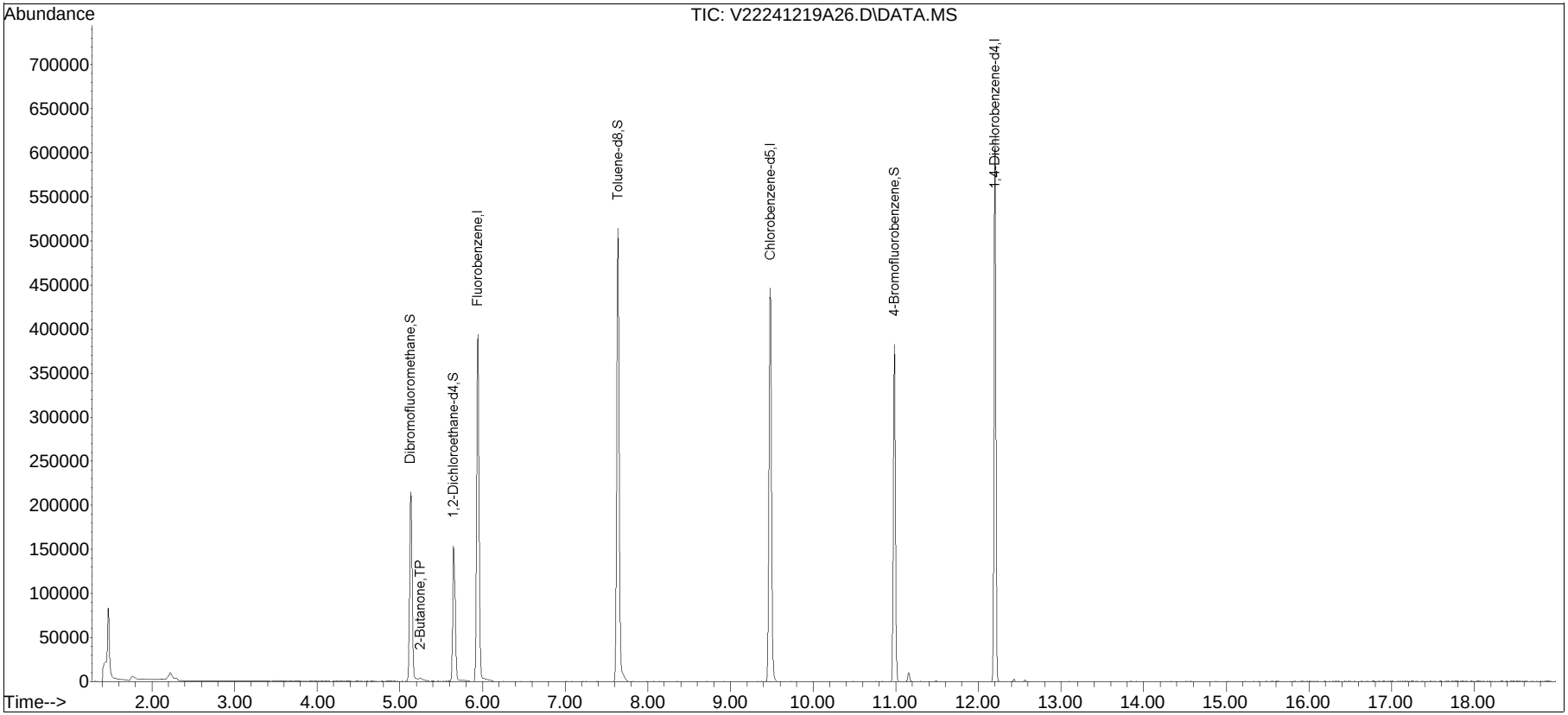
(#) = qualifier out of range (m) = manual integration (+) = signals summed

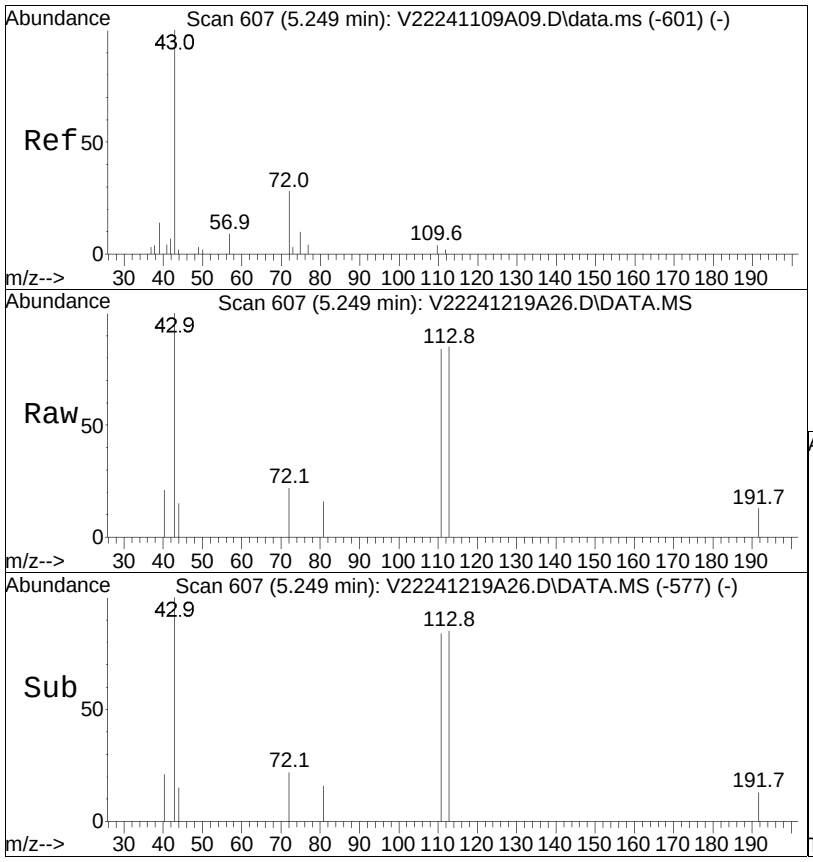
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241219A\
Data File : V22241219A26.D
Acq On : 19 Dec 2024 05:50 pm
Operator : VOA122:MJV
Sample : L2473538-07,31,10,10,,A
Misc : WG2011630,ICAL21691
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 20 06:00:39 2024
Quant Method : K:\VOA122\2024\241219A\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 + NYSTARS1219A01.D•

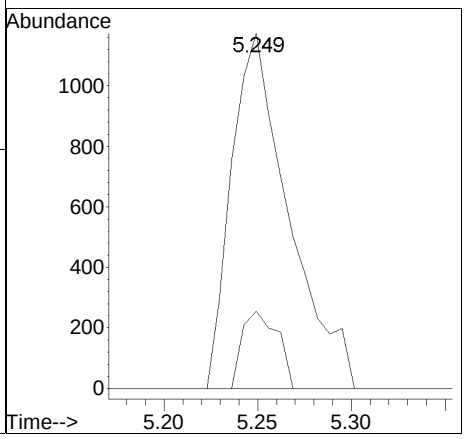




#41
2-Butanone
Concen: 1.89 ug/L
RT: 5.249 min Scan# 607
Delta R.T. -0.000 min
Lab File: V22241219A26.D
Acq: 19 Dec 2024 05:50 pm

Tgt Ion: 43 Resp: 2495

Ion	Ratio	Lower	Upper
43	100		
72	13.4	45.8	68.8#



Manual Integration Report

Data Path	: K:\VOA122\2024\241219A\	QMethod	: V122_241109A_8260.m
Data File	: V22241219A26.D	Operator	: VOA122:MJV
Date Inj'd	: 12/19/2024 5:50 pm	Instrument	: VOA 122
Sample	: L2473538-07,31,10,10,,A	Quant Date	: 12/20/2024 4:42 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**	**: L2473538**
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**	**: L2473538**
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**	**: L2473538**
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
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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
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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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		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

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Last Update : Mon Nov 11 12:28:19 2024
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		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

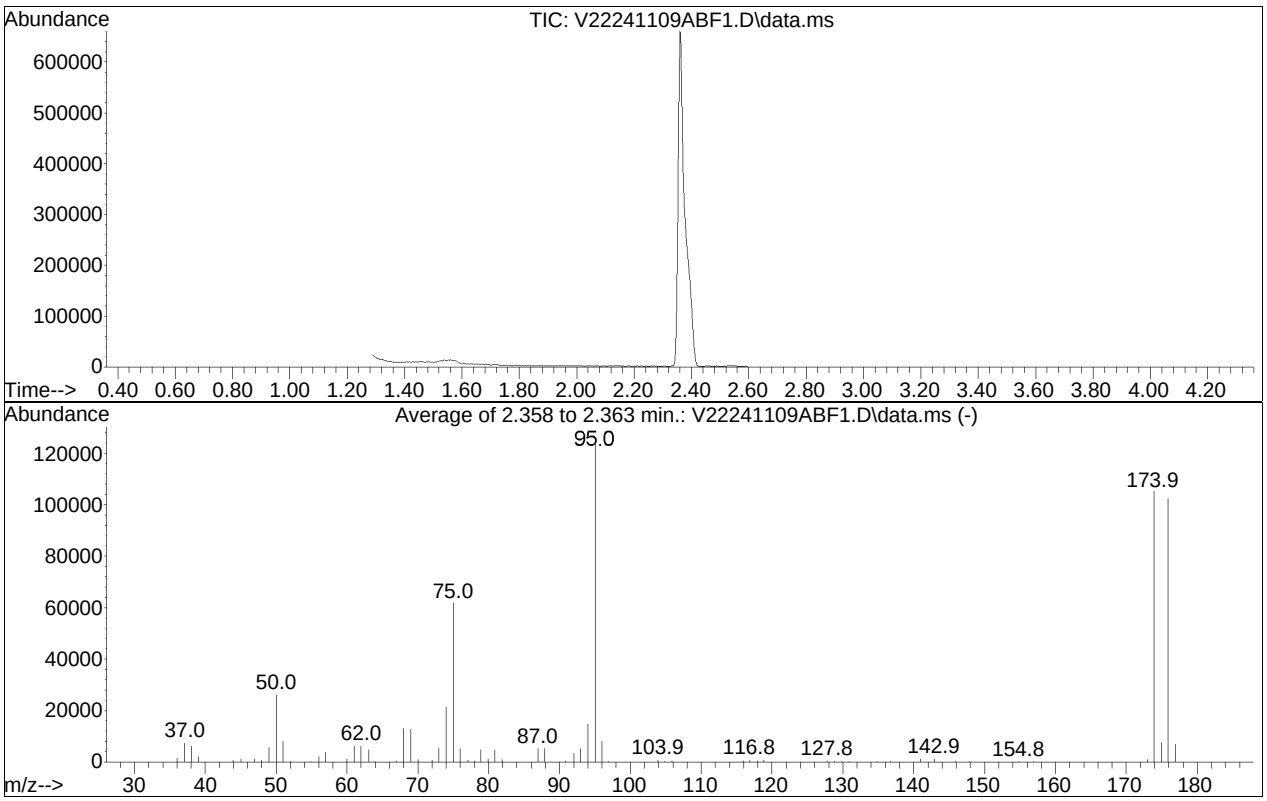
(#) = Out of Range

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

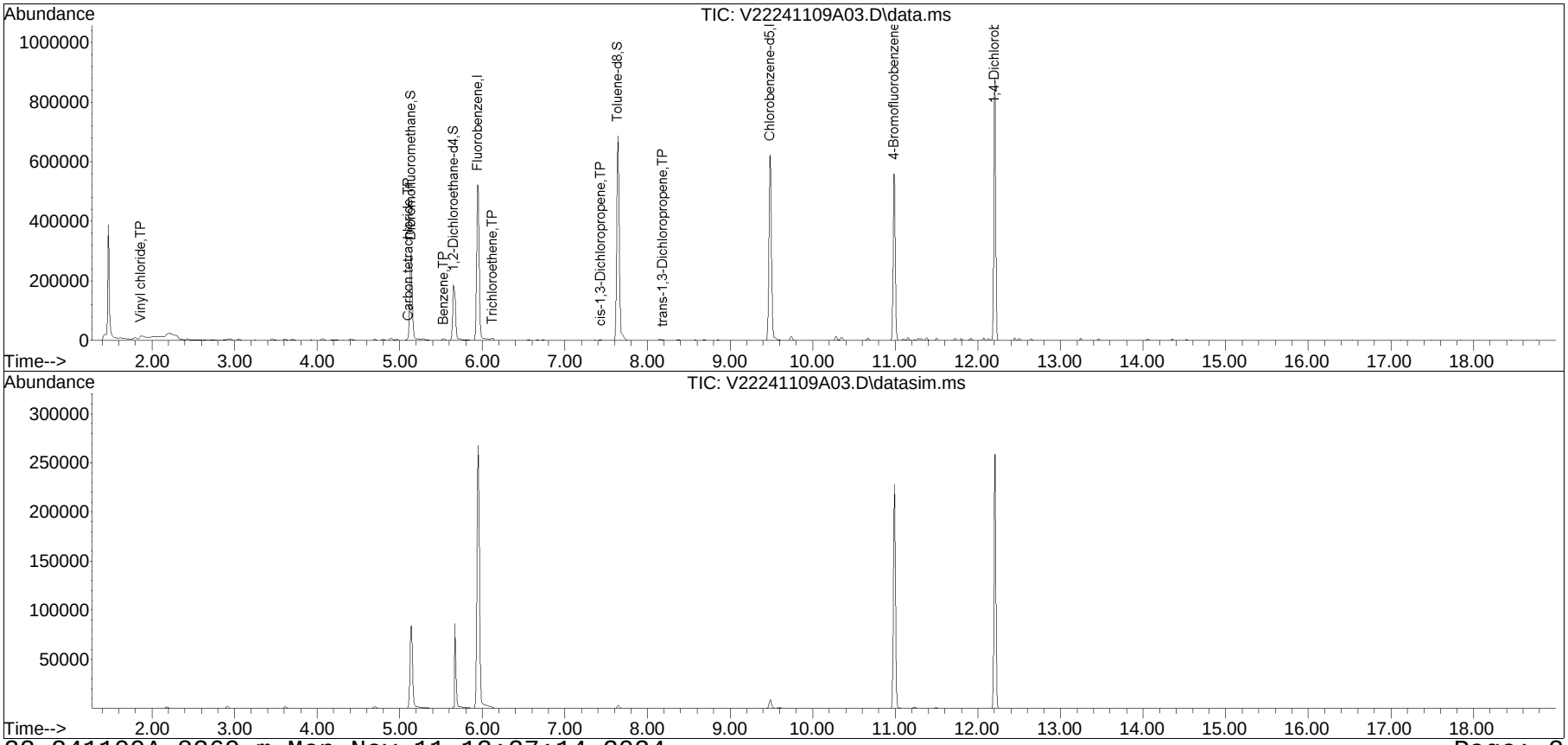
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

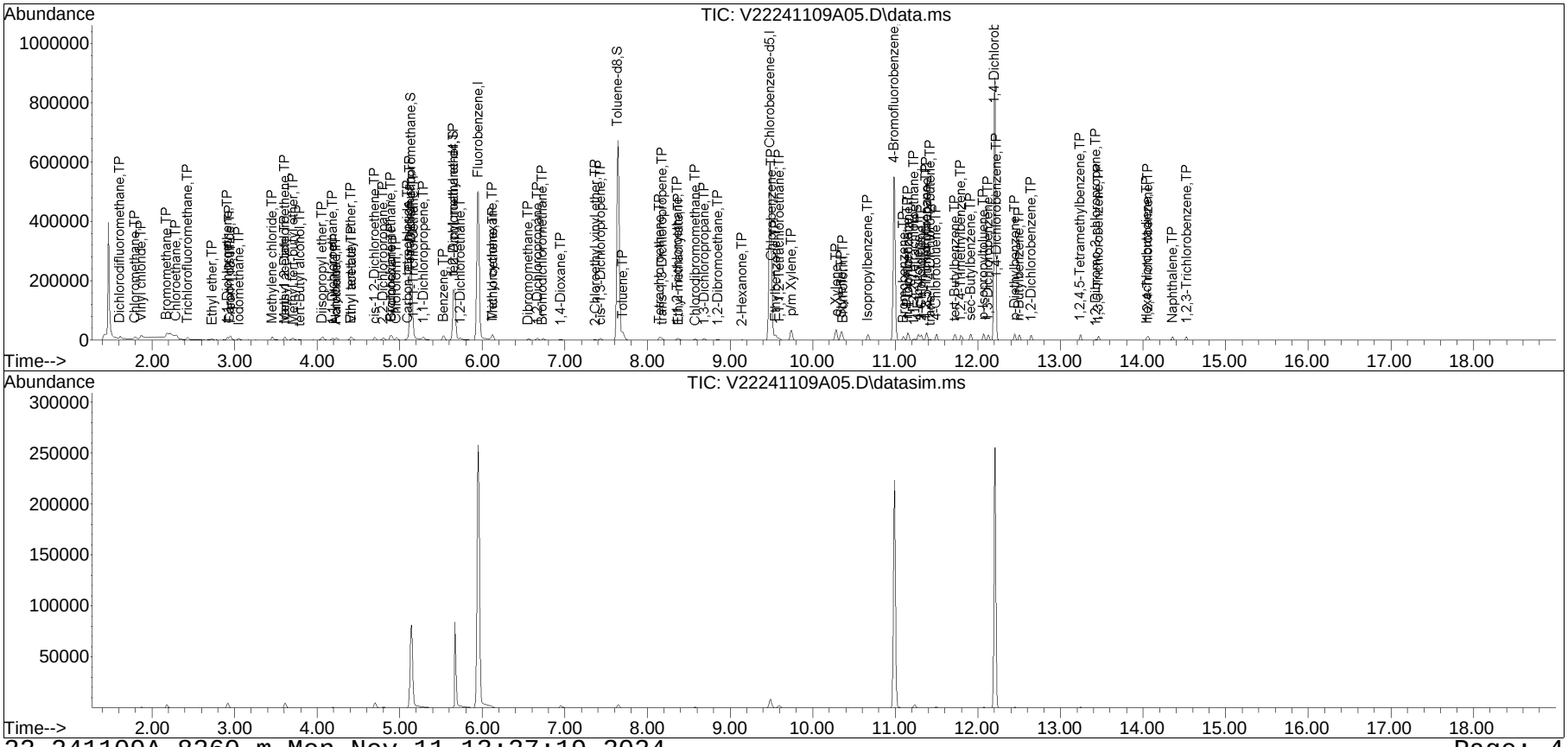
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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•

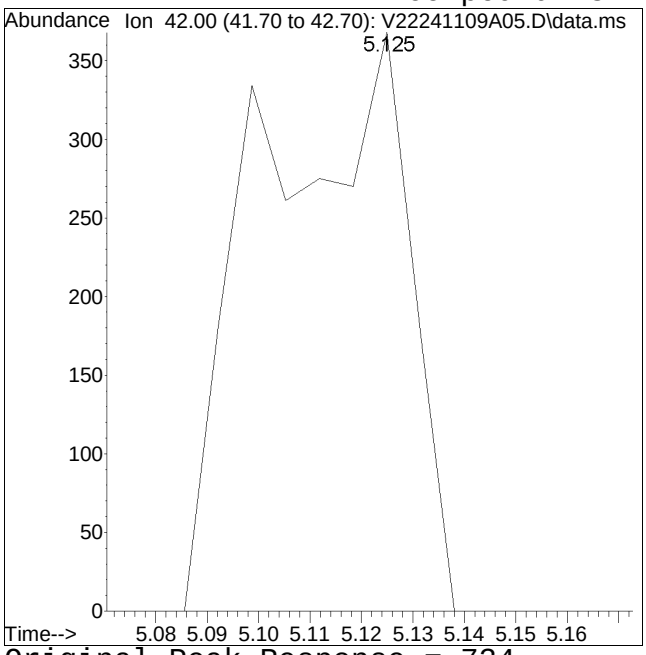


Manual Integration Report

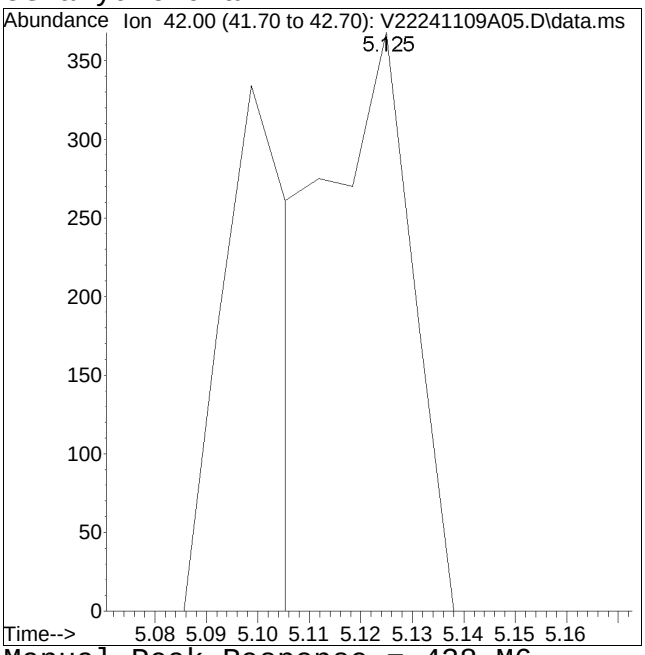
Data Path : K:\VOA122\2024\241109A-ICAQ
Data File : V22241109A05.D
Date Inj'd : 11/9/2024 8:33 am
Sample : I8260STD0.5PPB

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

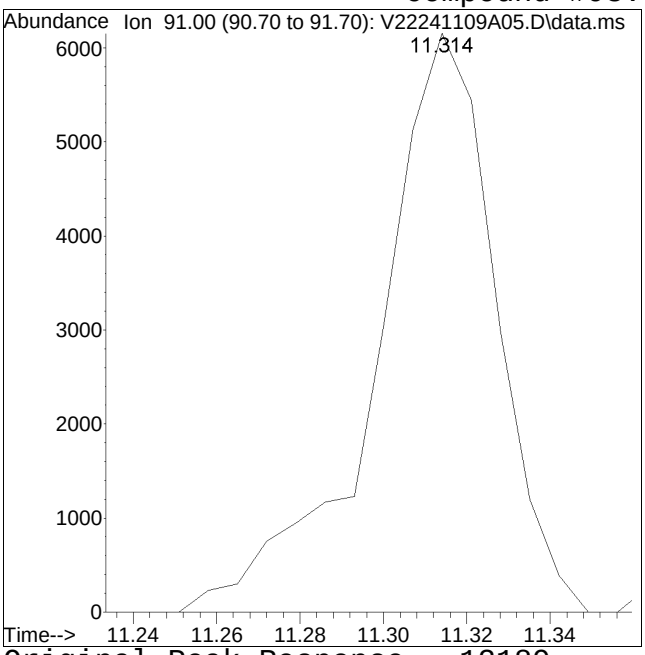
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

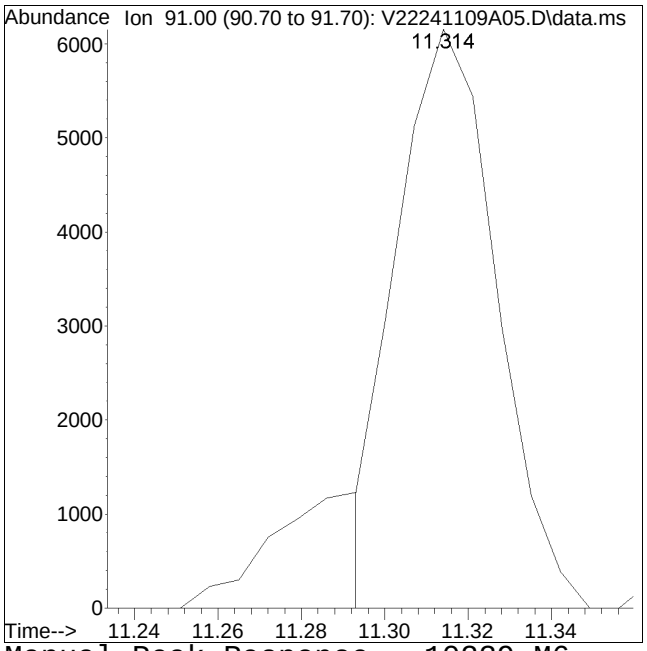
Data Path : K:\VOA122\2024\241109A-ICAQ
Data File : V22241109A05.D
Date Inj'd : 11/9/2024 8:33 am
Sample : I8260STD0.5PPB

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

Compound #93: 2-Chlorotoluene



Original Peak Response = 12189



Manual Peak Response = 10239 M6

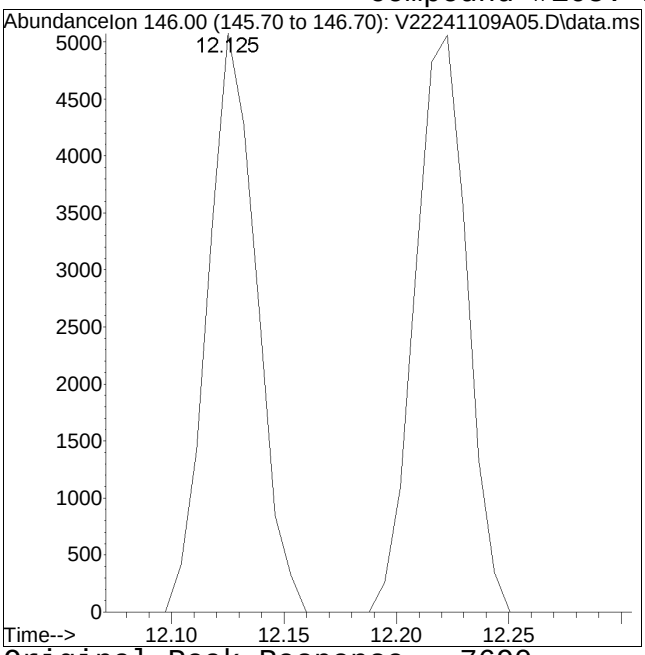
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

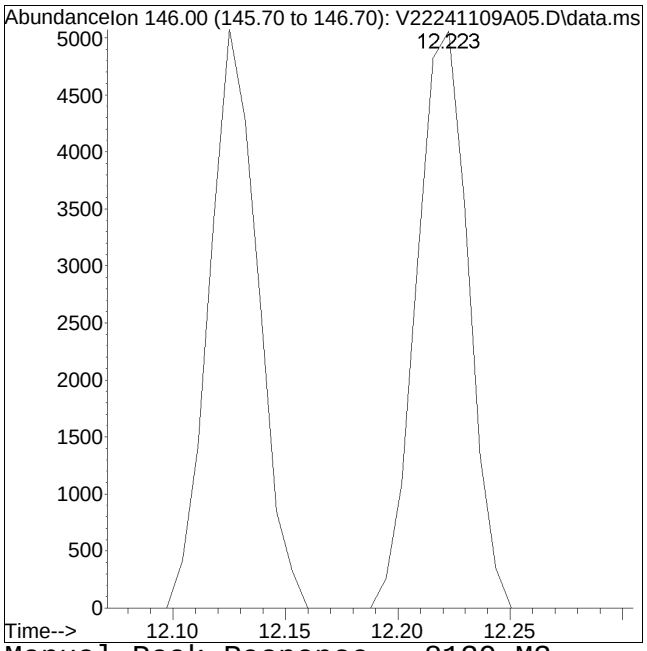
Manual Integration Report

Data Path : K:\VOA122\2024\241109A-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 #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

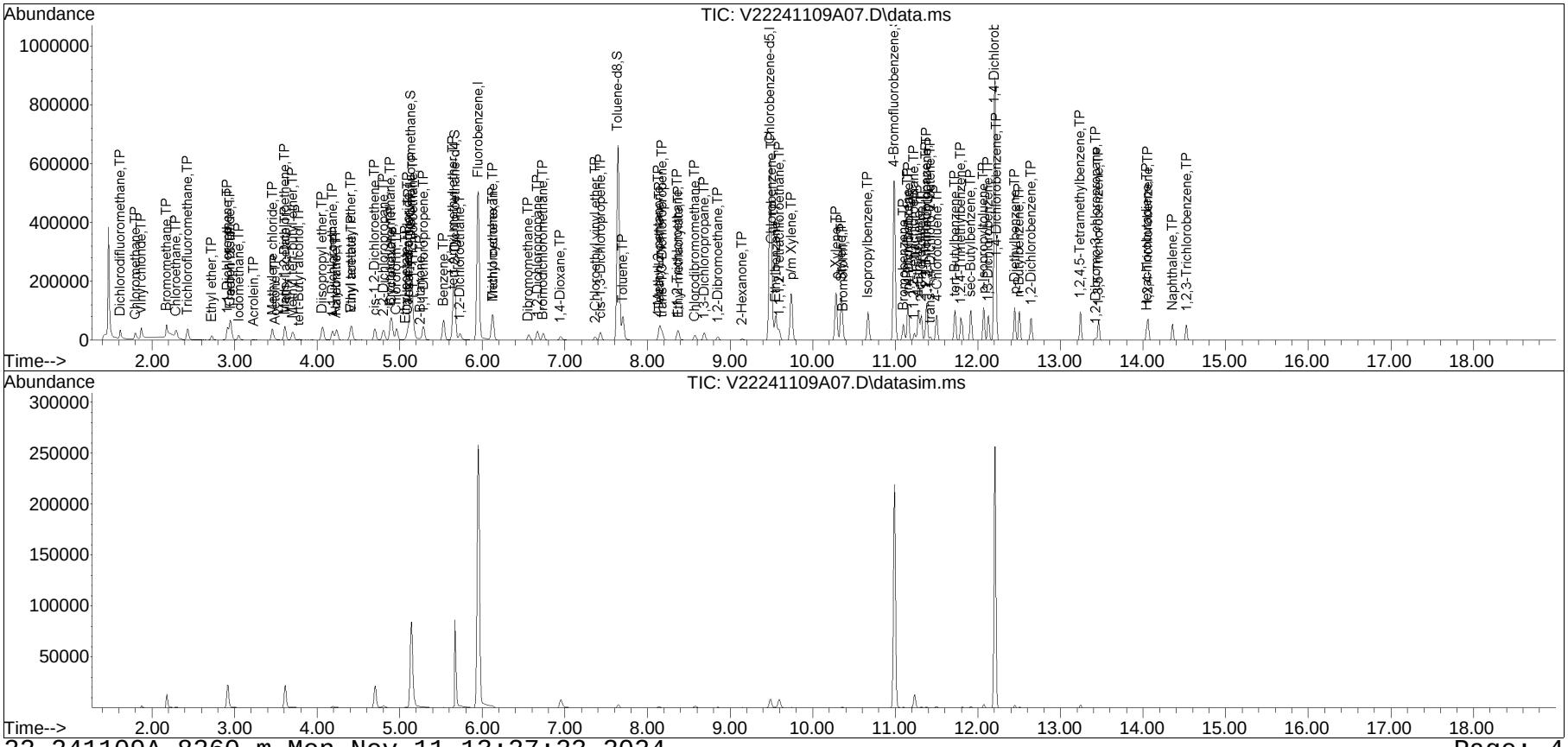
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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•

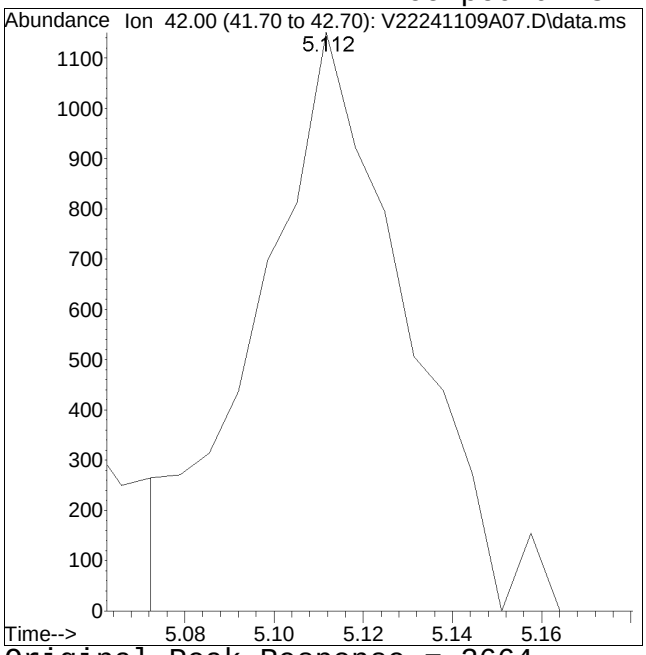


Manual Integration Report

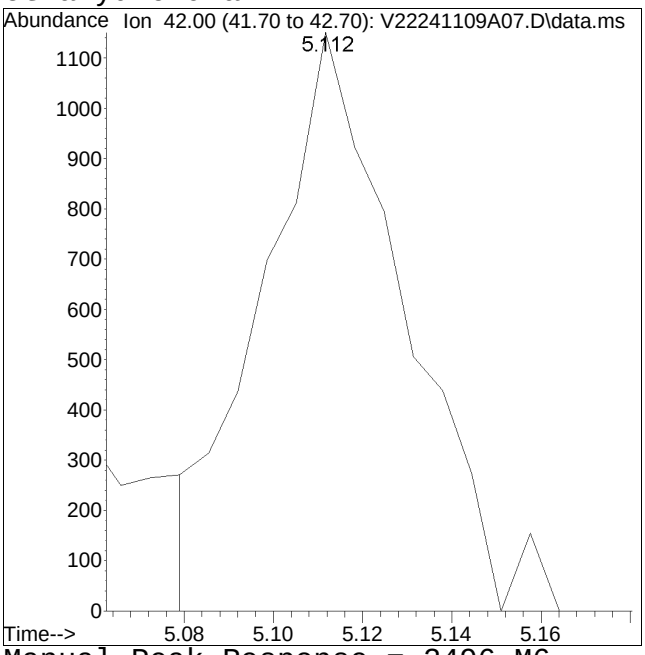
Data Path : K:\VOA122\2024\241109A-ICAQ
Data File : V22241109A07.D
Date Inj'd : 11/9/2024 9:22 am
Sample : I8260STD2PPB

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

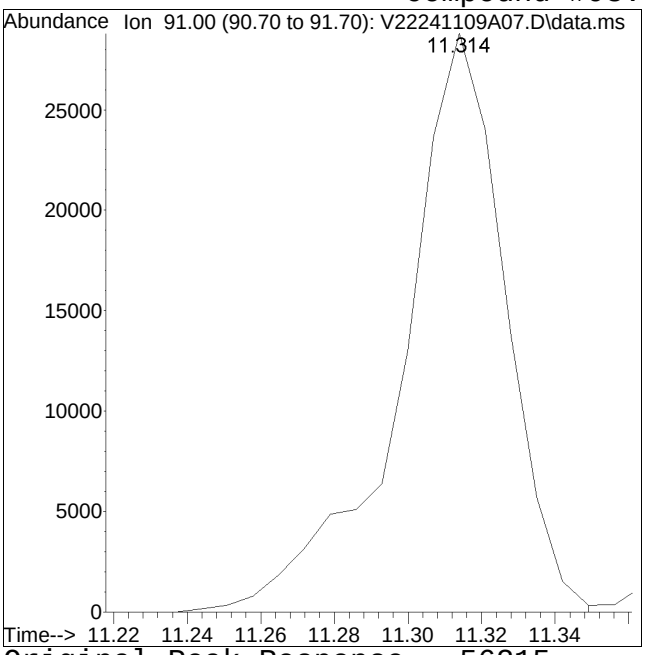
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

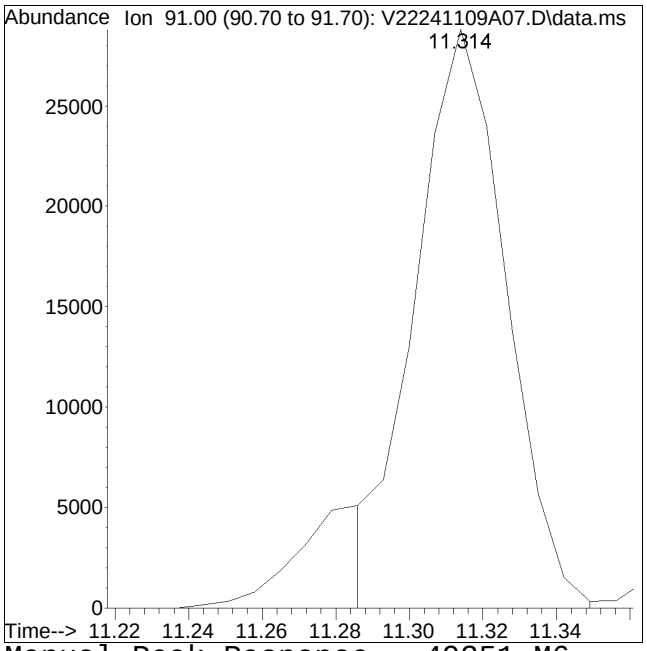
Data Path : K:\VOA122\2024\241109A-ICAQ
Data File : V22241109A07.D
Date Inj'd : 11/9/2024 9:22 am
Sample : I8260STD2PPB

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



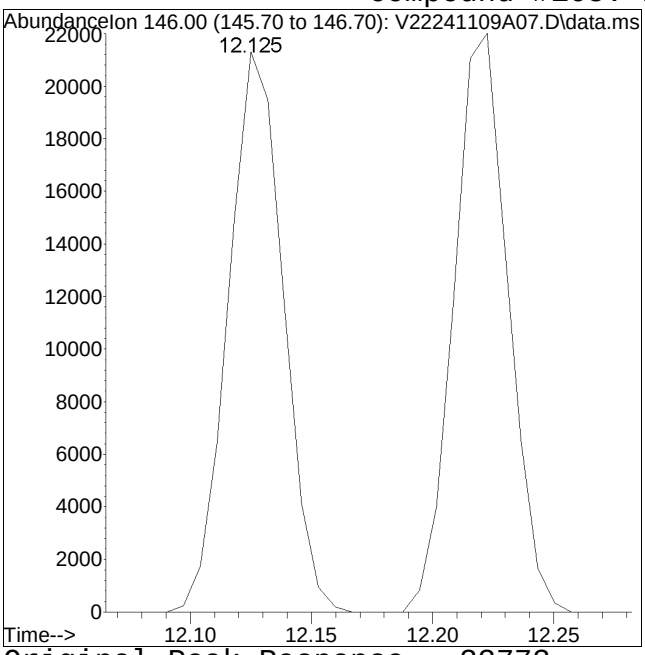
Manual Peak Response = 49351 M6

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

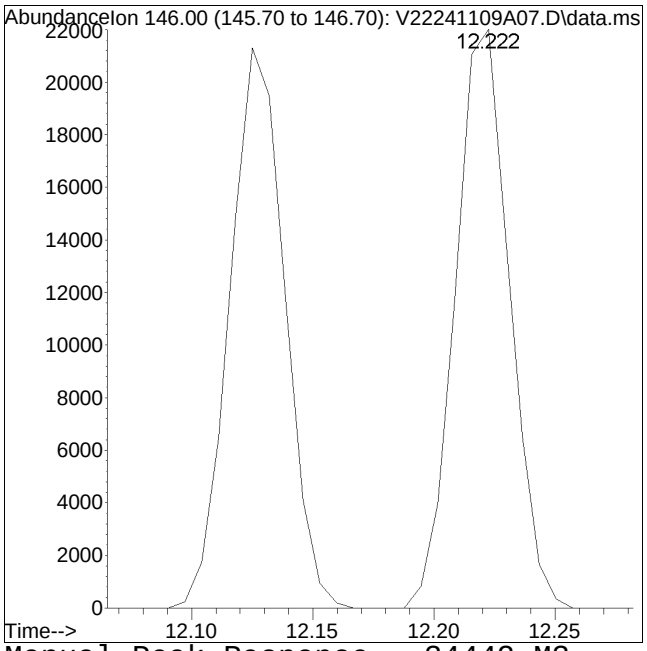
Manual Integration Report

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

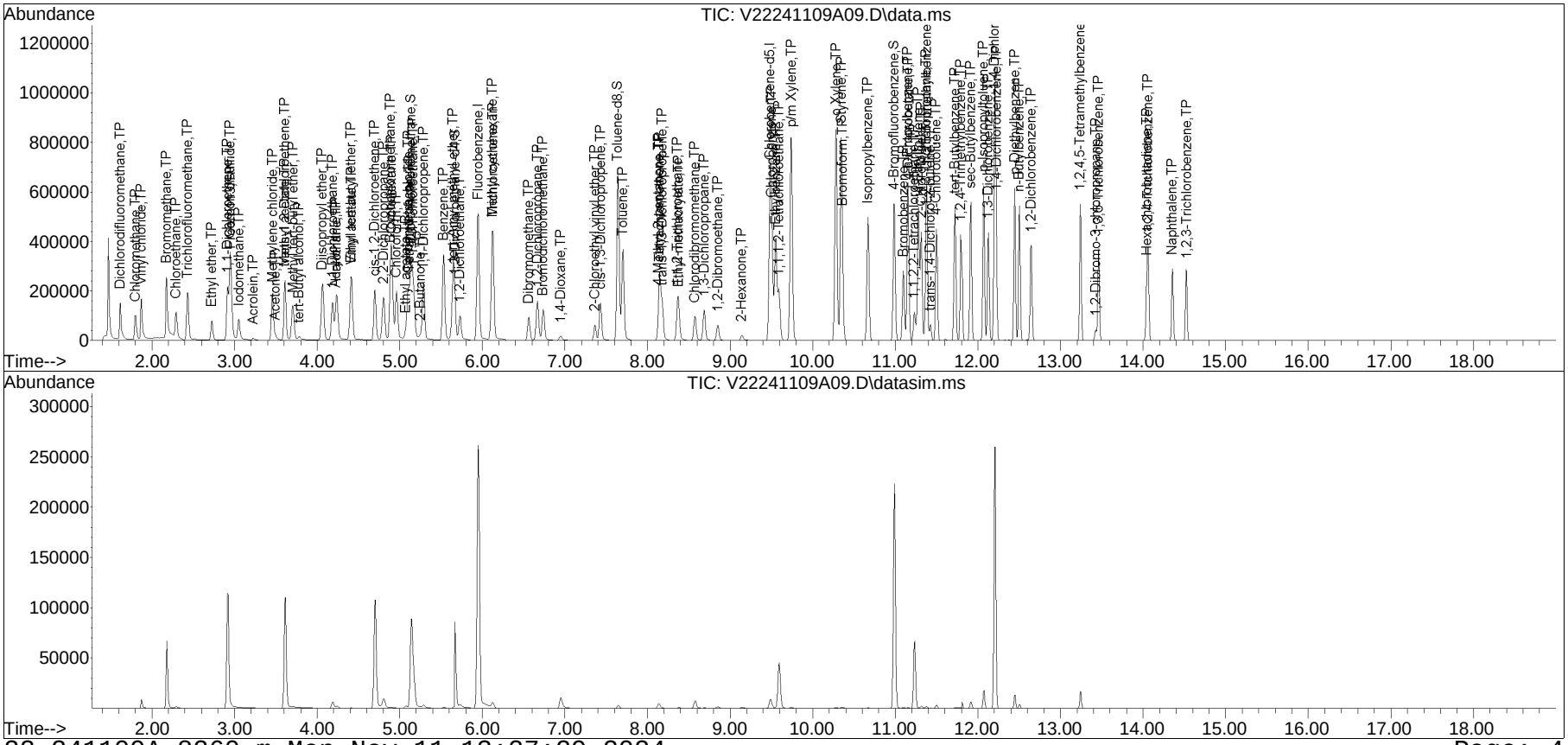
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

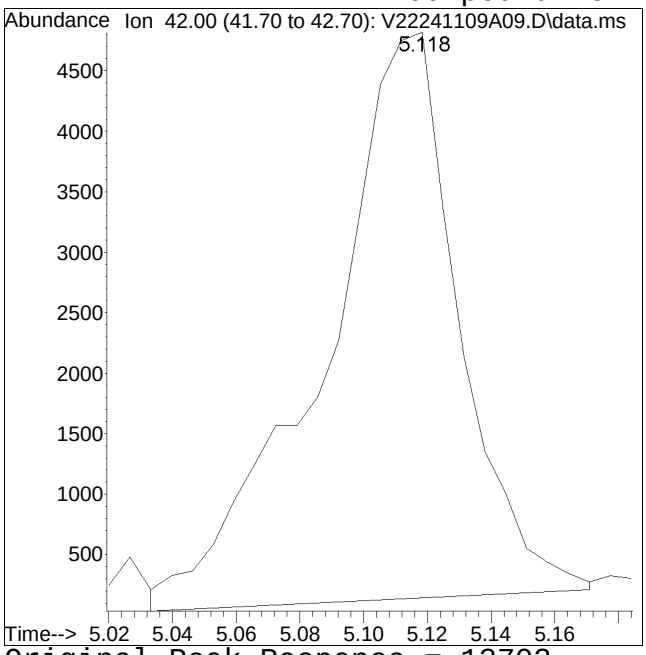
Sub List : 8260-Curve - Megamix plus DioxL\V22241109A09.D•



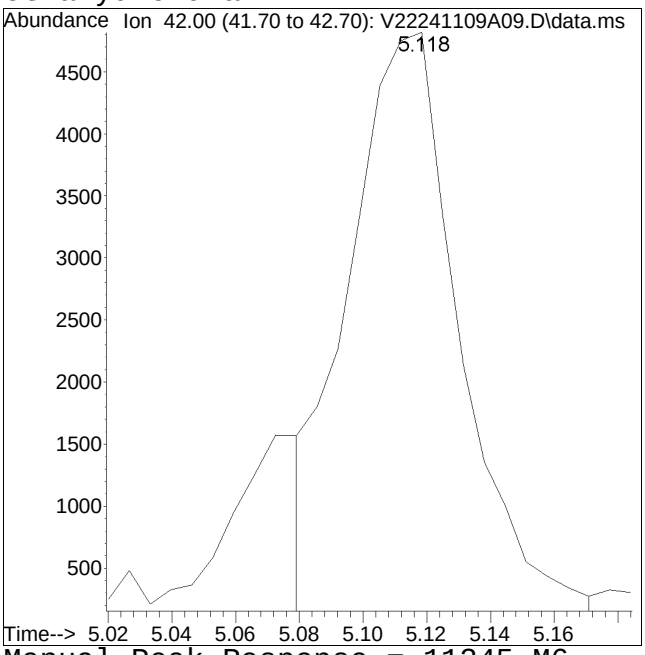
Manual Integration Report

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

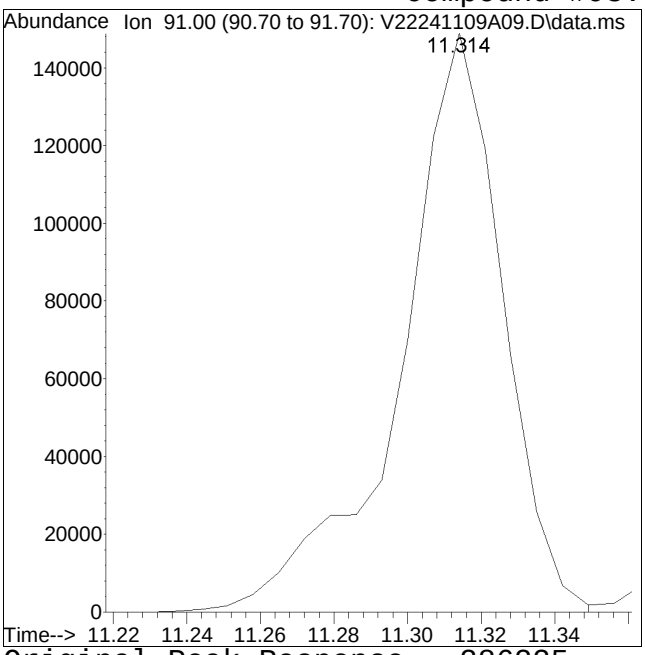
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

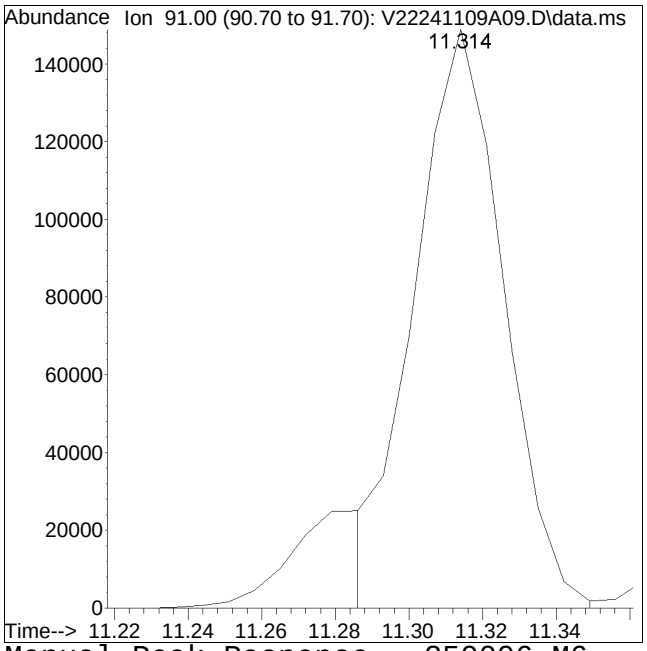
Data Path : K:\VOA122\2024\241109A-ICAQ
Data File : V22241109A09.D
Date Inj'd : 11/9/2024 10:11 am
Sample : I8260STD10PPB

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

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

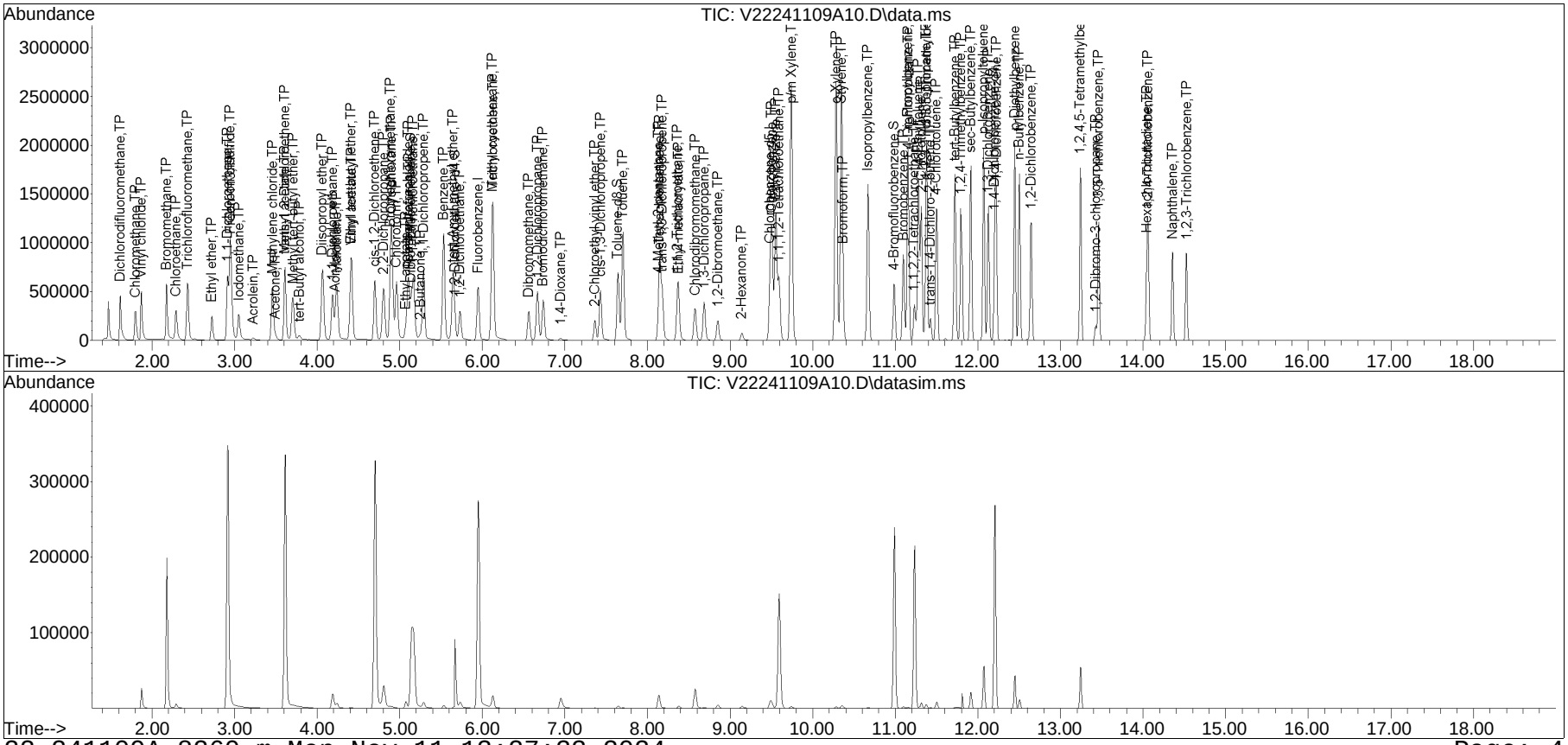
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

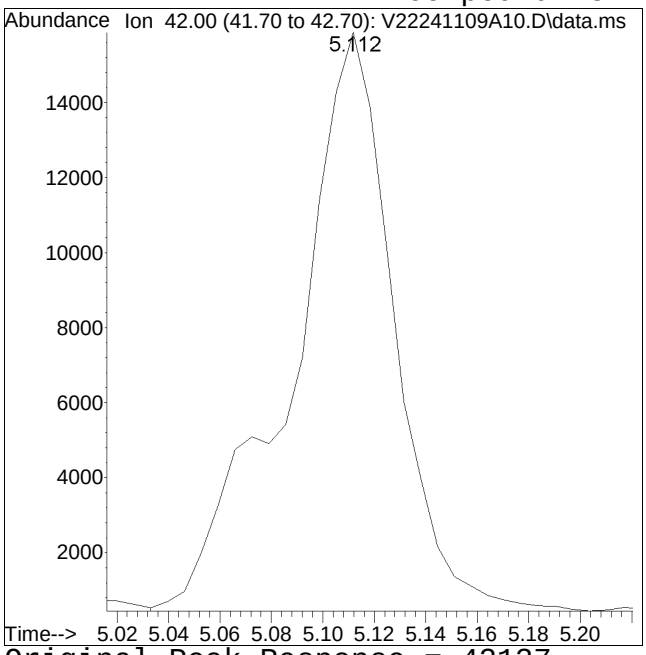
Sub List : 8260-Curve - Megamix plus DioxL\V22241109A09.D•



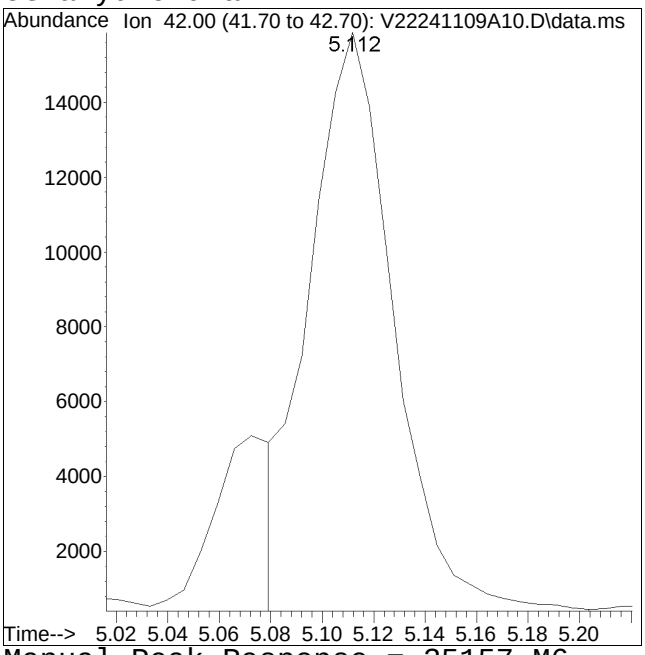
Manual Integration Report

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

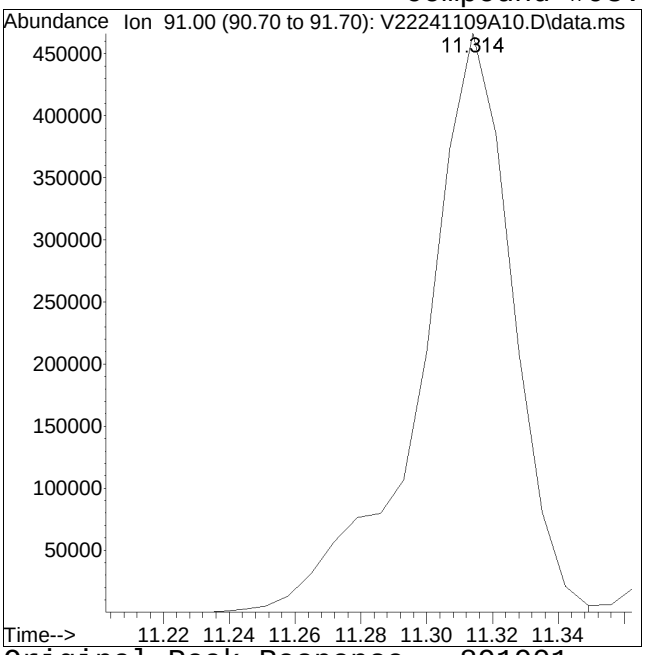
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

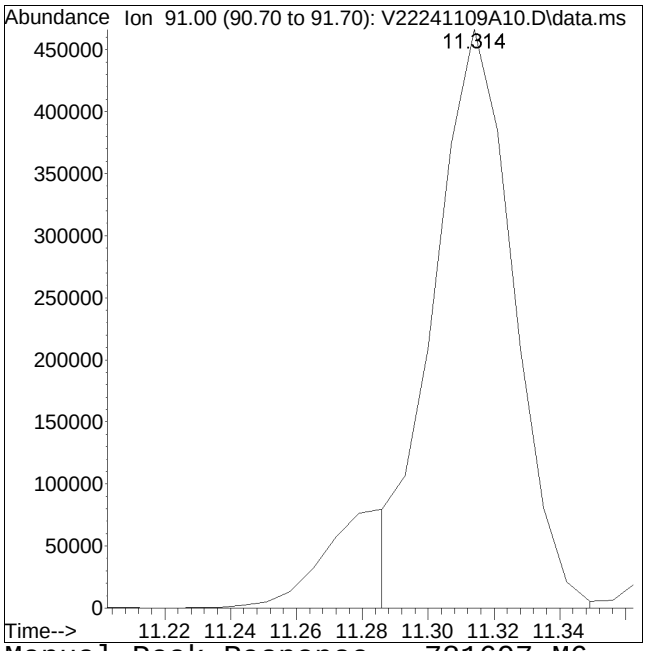
Data Path : K:\VOA122\2024\241109A-ICAQ
Data File : V22241109A10.D
Date Inj'd : 11/9/2024 10:36 am
Sample : I8260STD30PPB

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

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)
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

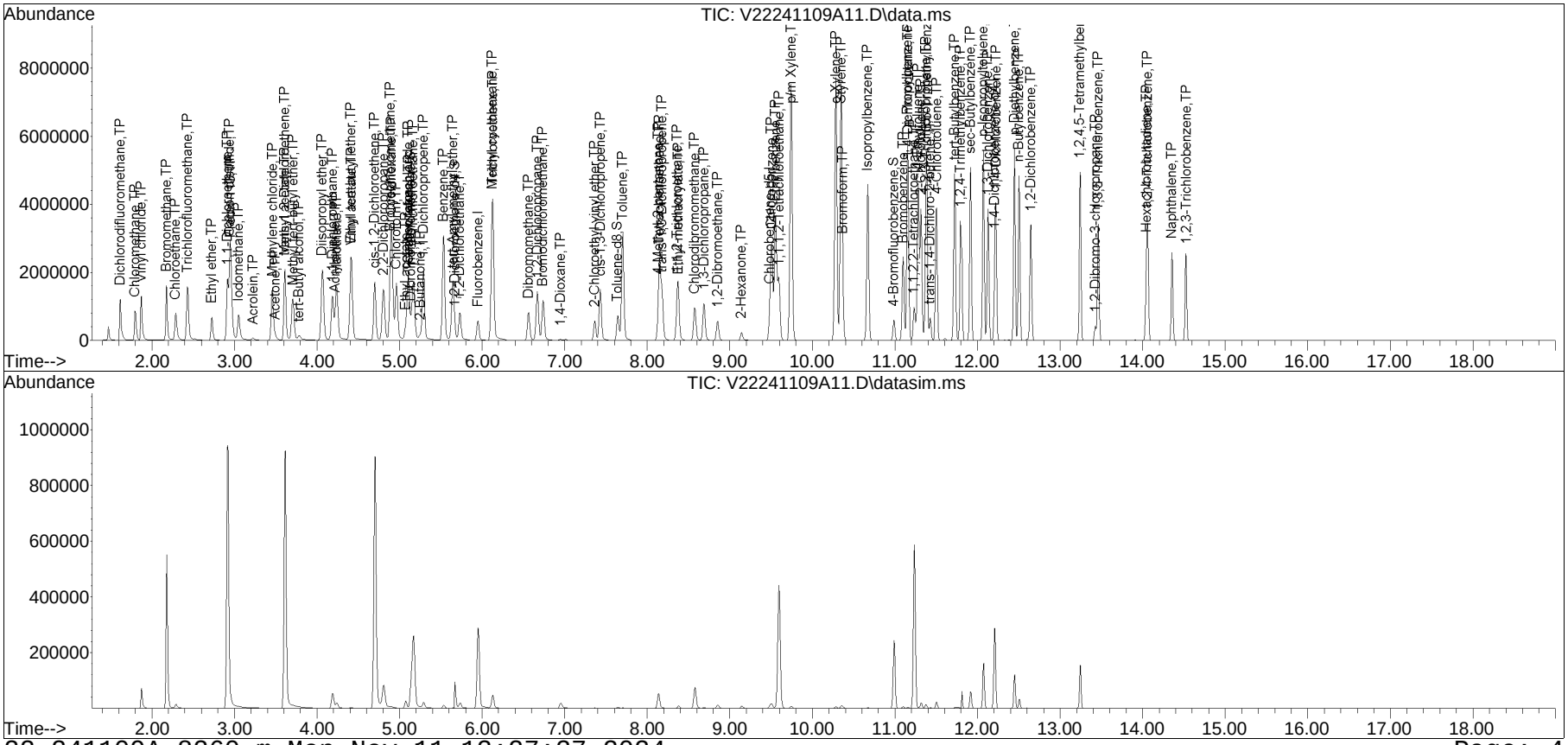
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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•

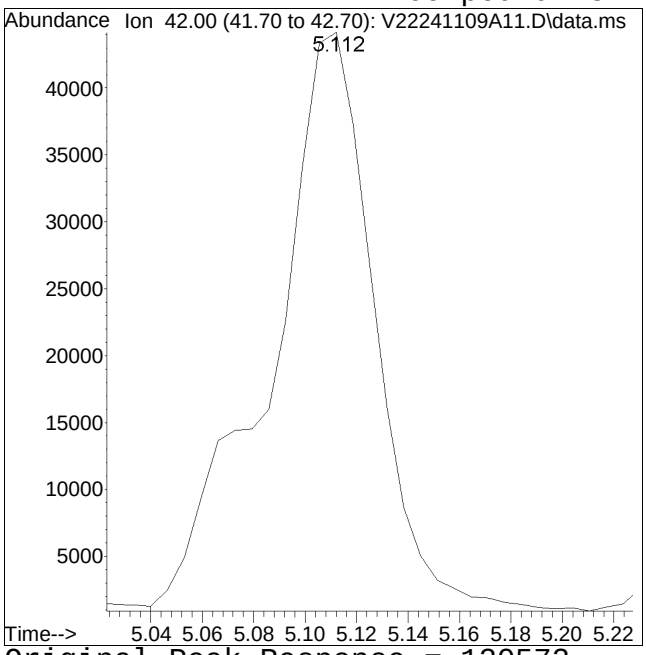


Manual Integration Report

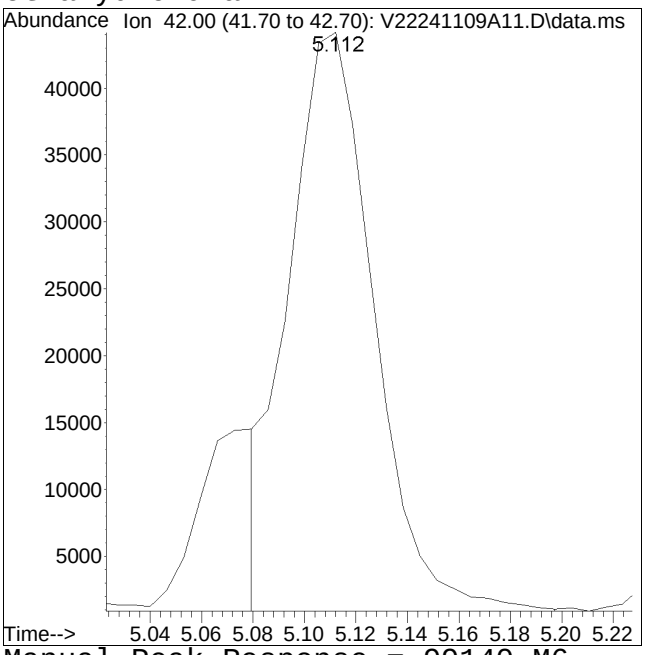
Data Path : K:\VOA122\2024\241109A-ICAQ
Data File : V22241109A11.D
Date Inj'd : 11/9/2024 11:01 am
Sample : I8260STD80PPB

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 = 120572



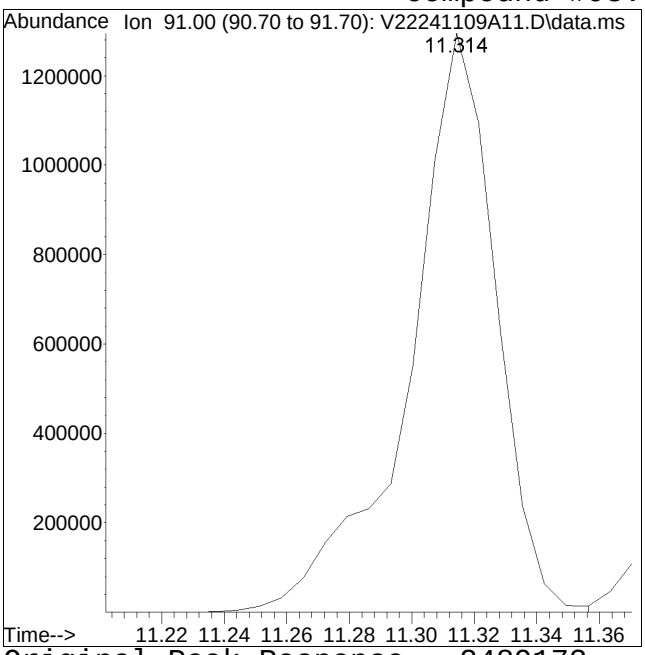
Manual Peak Response = 99140 M6

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

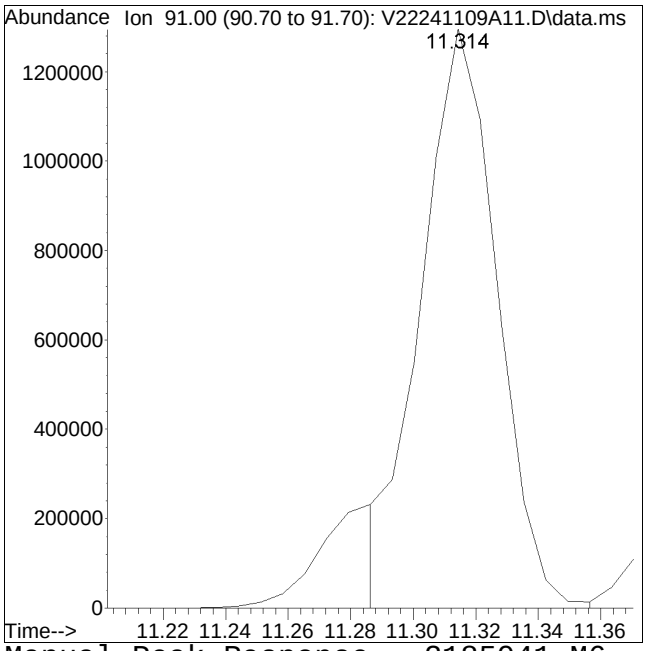
Manual Integration Report

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

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

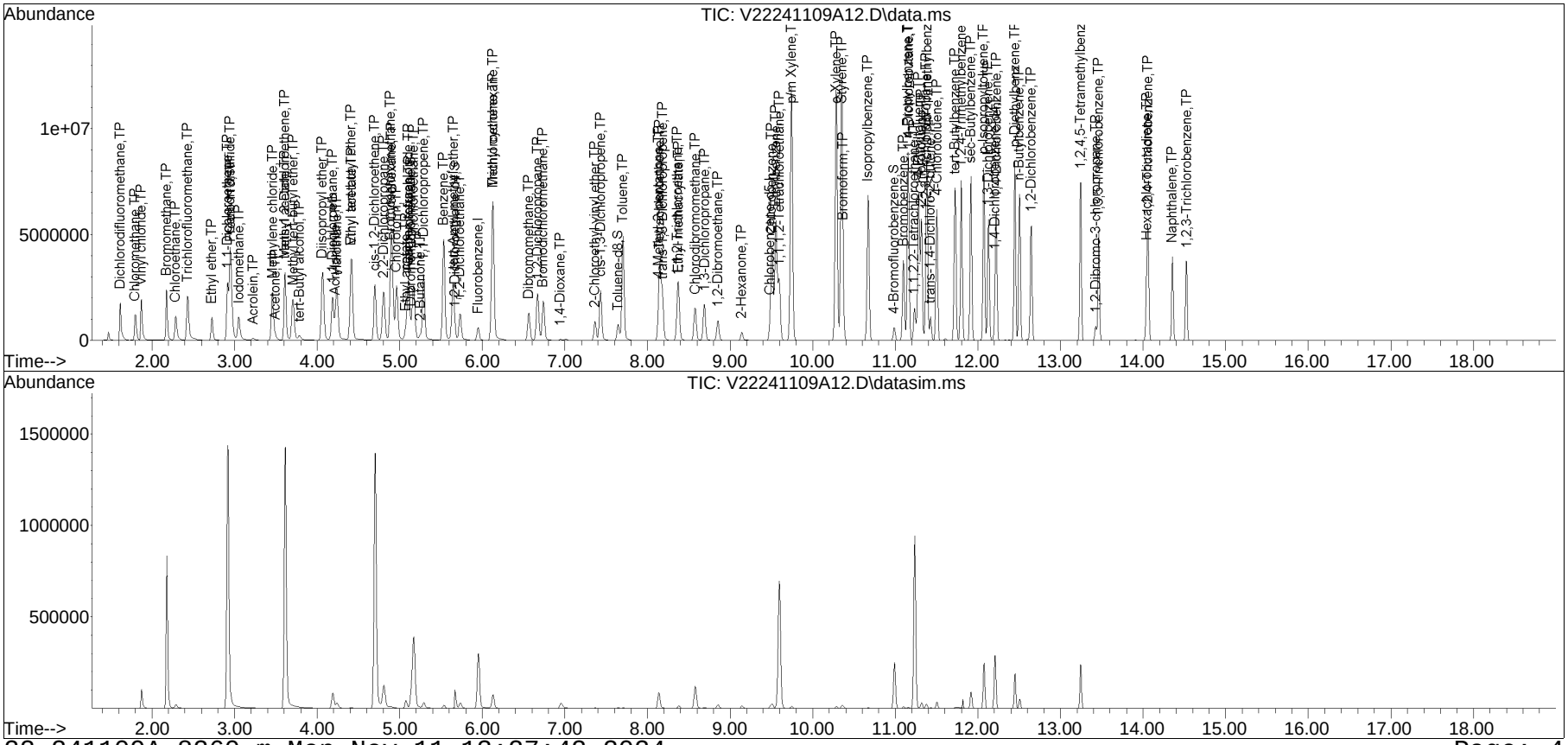
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

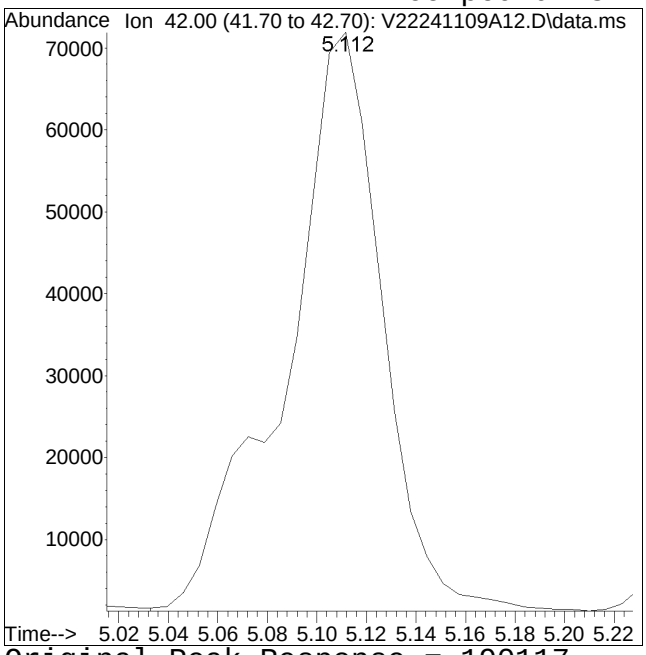
Sub List : 8260-Curve - Megamix plus DioxL\V22241109A09.D•



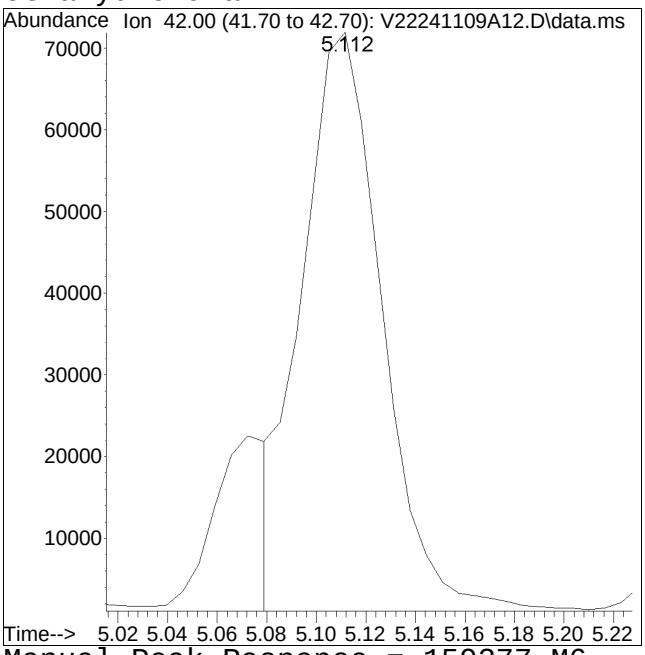
Manual Integration Report

Data Path : K:\VOA122\2024\241109A-ICAQMethod : V122_241109A_8260.m
Data File : V22241109A12.D Operator : VOA122:PID
Date Inj'd : 11/9/2024 11:25 am Instrument : VOA 122
Sample : I8260STD120PPB Quant Date : 11/11/2024 12:19 pm

Compound #37: Tetrahydrofuran



Original Peak Response = 190117



Manual Peak Response = 159277 M6

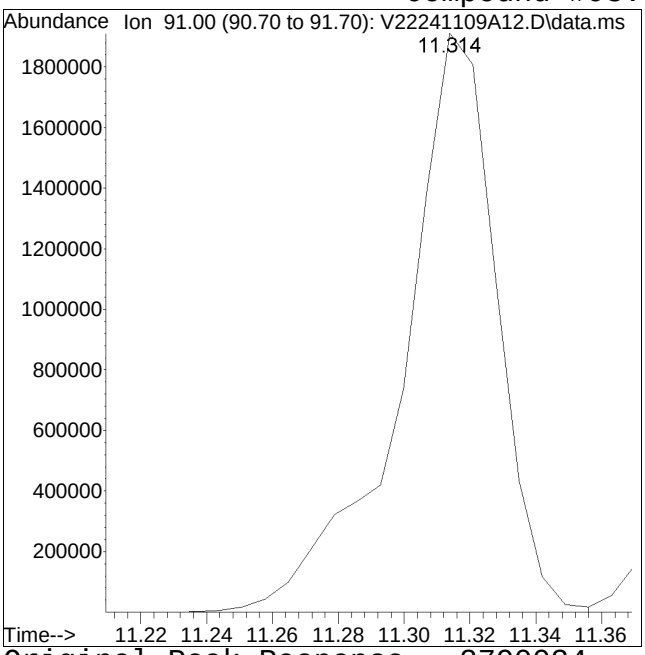
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

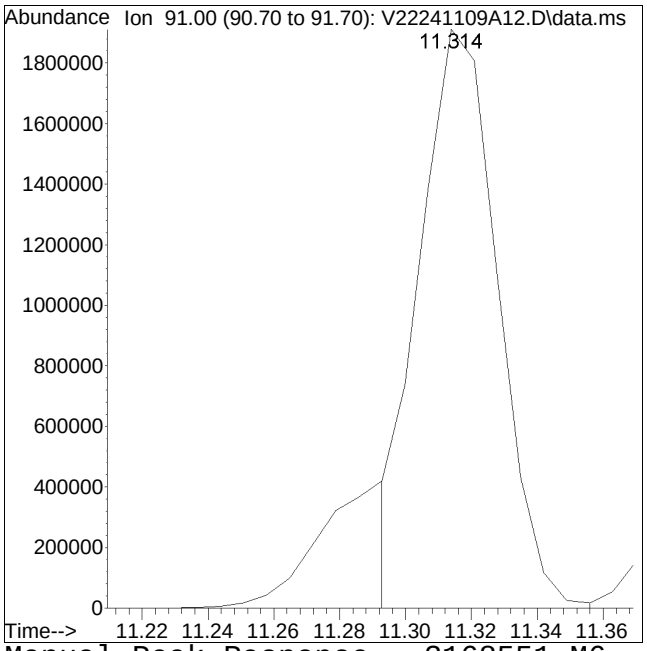
Data Path : K:\VOA122\2024\241109A-ICAQ
Data File : V22241109A12.D
Date Inj'd : 11/9/2024 11:25 am
Sample : I8260STD120PPB

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

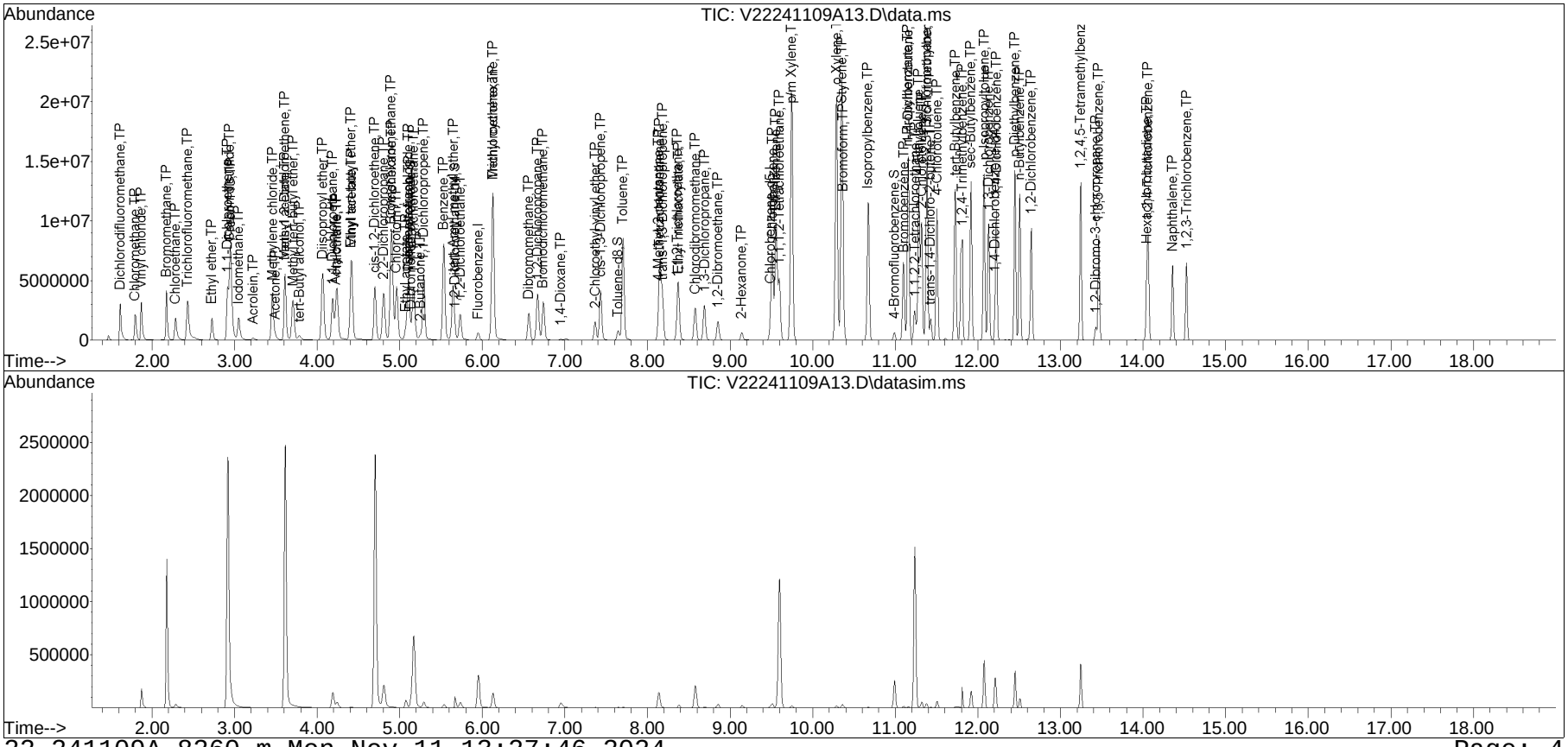
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

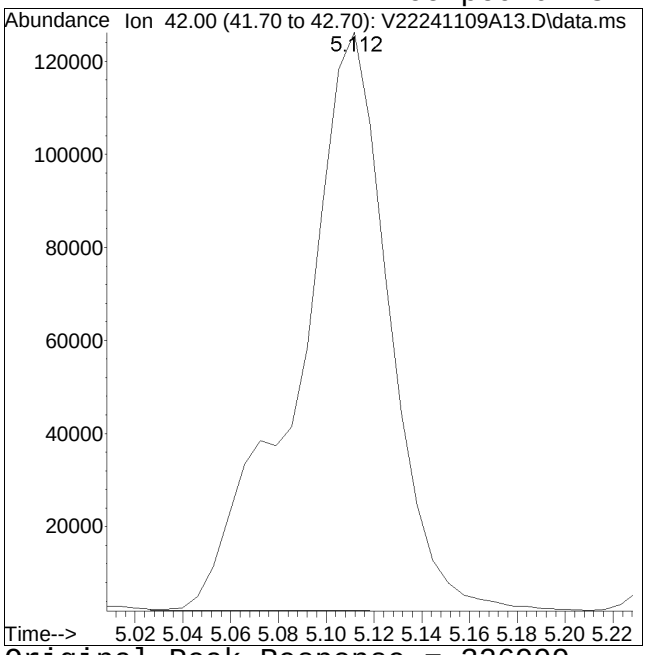
Sub List : 8260-Curve - Megamix plus DioxL\V22241109A09.D•



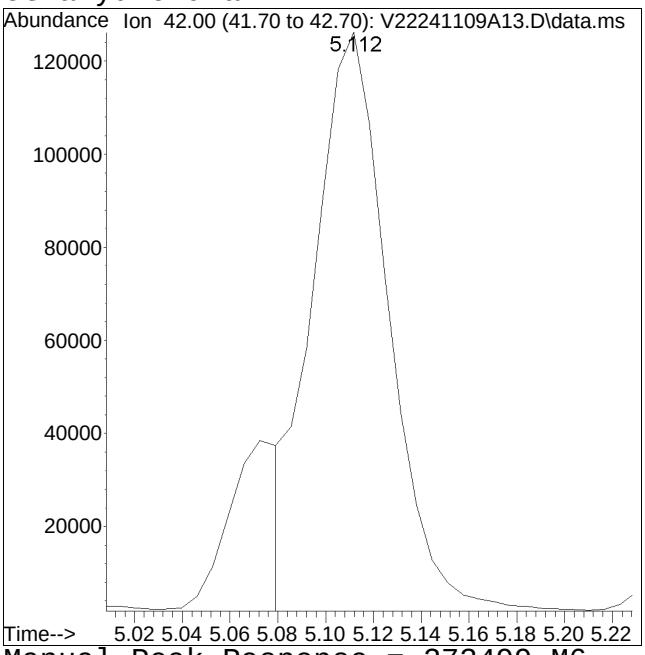
Manual Integration Report

Data Path : K:\VOA122\2024\241109A-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 #37: Tetrahydrofuran



Original Peak Response = 326999



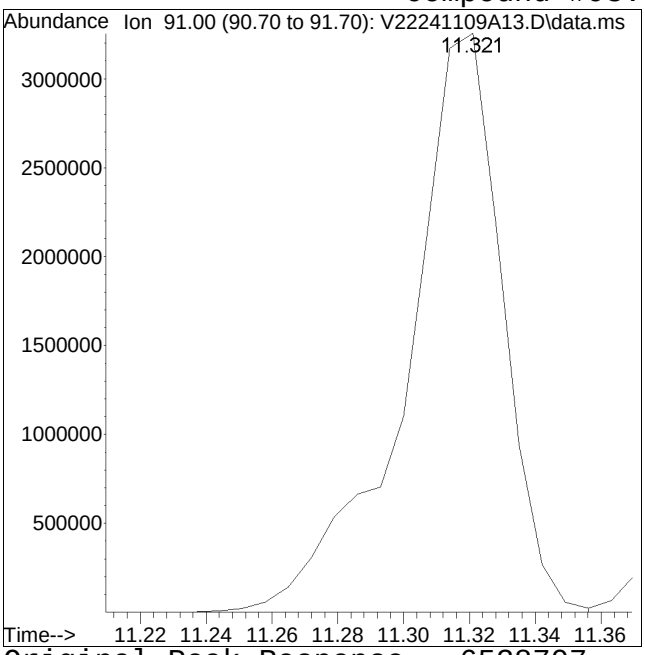
Manual Peak Response = 273499 M6

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

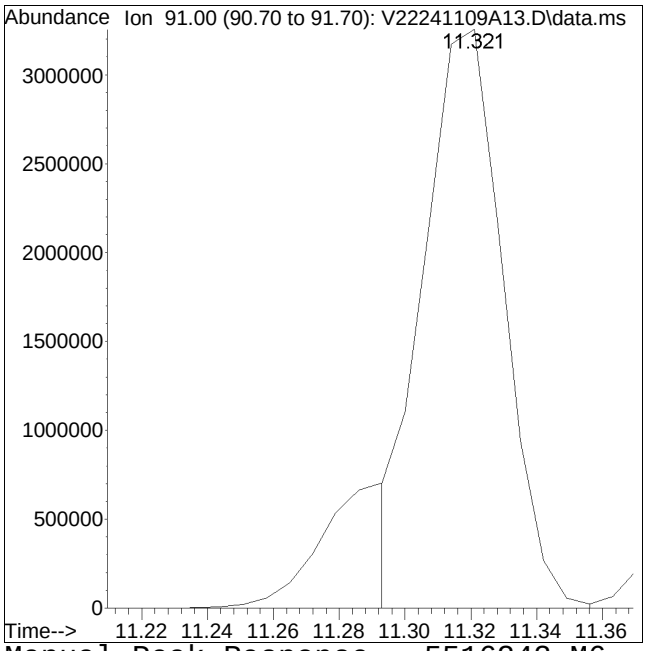
Manual Integration Report

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

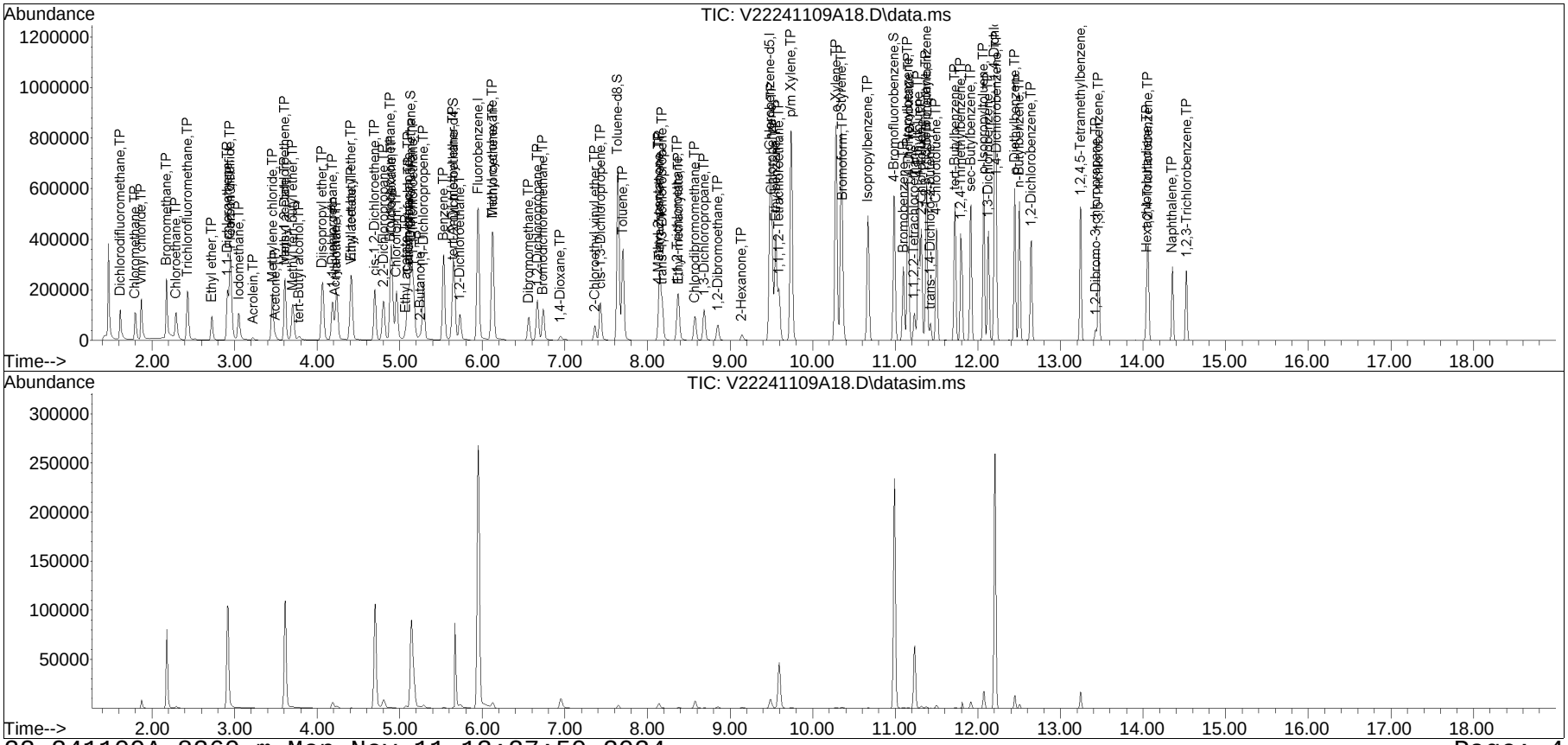
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

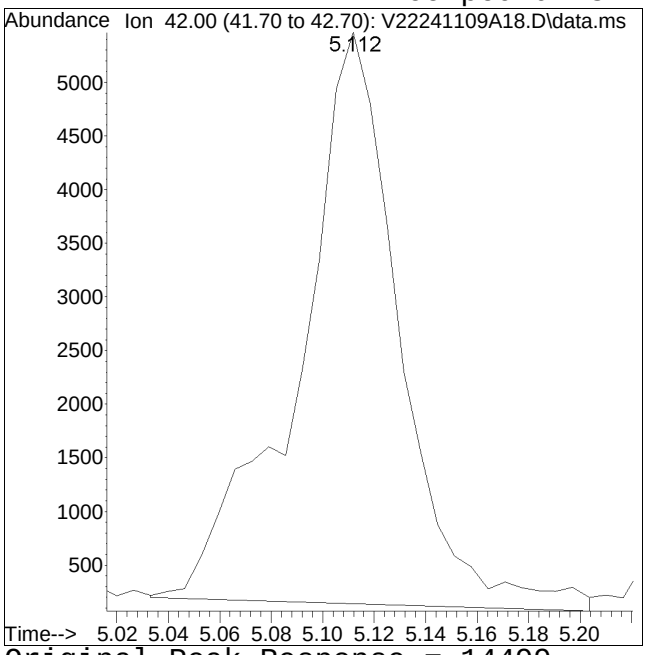
Sub List : 8260-Curve - Megamix plus DioxL\V22241109A09.D•



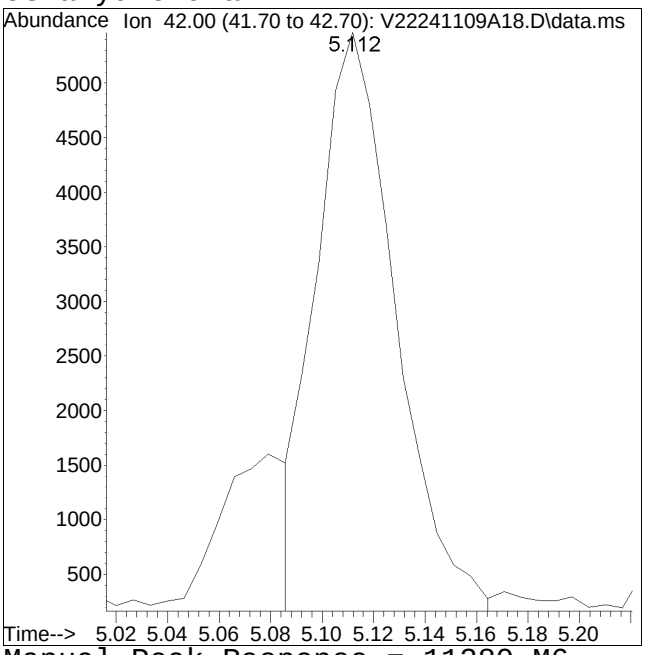
Manual Integration Report

Data Path : K:\VOA122\2024\241109A-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 #37: Tetrahydrofuran



Original Peak Response = 14499



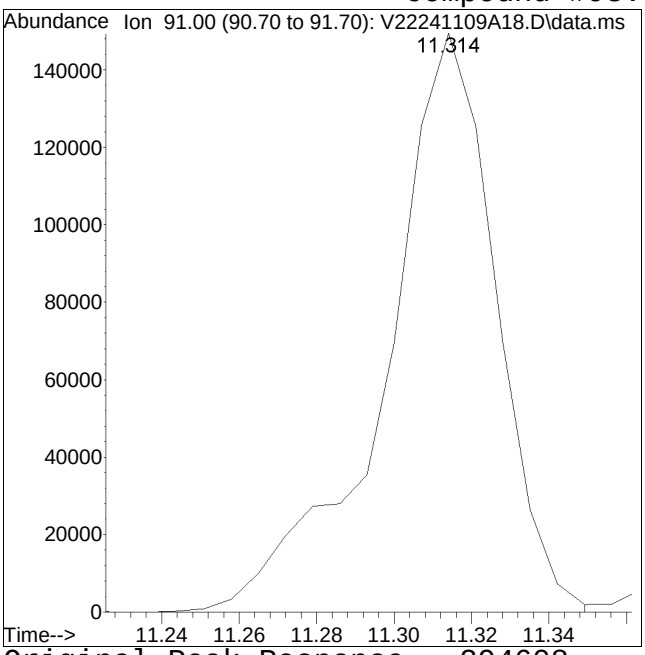
Manual Peak Response = 11280 M6

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

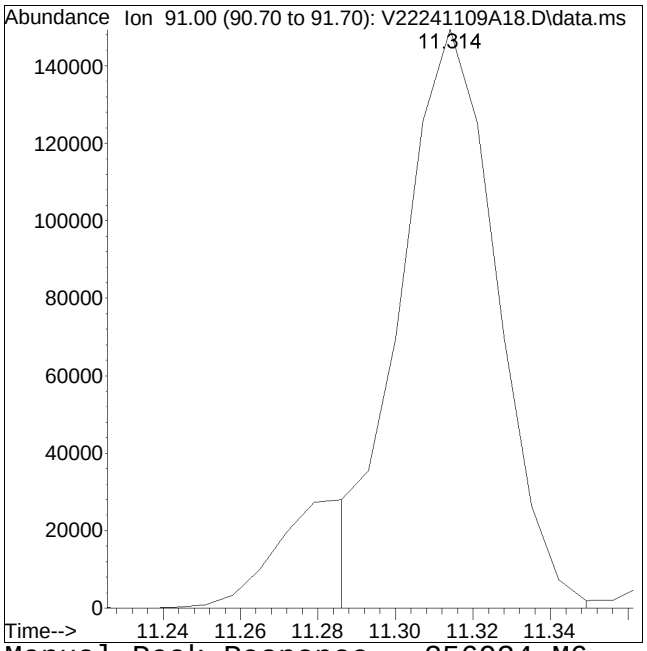
Manual Integration Report

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**	: L2473538		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: VOA122	**Calibration Date**	: 12/19/24 07:38		
Lab File ID	: V22241219A01	**Init. Calib. Date(s)**	: 11/09/24	11/09/24	
Sample No	: WG2011630-2	**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	97	0
Dichlorodifluoromethane	0.207	0.213	-	-2.9	20	89	0
Chloromethane	0.177	0.216	-	-22*	20	110	0
Vinyl chloride	0.236	0.212	-	10.2	20	79	0
Bromomethane	0.17	0.056	-	67.1*	20	30	0
Chloroethane	0.162	0.121	-	25.3*	20	68	0
Trichlorofluoromethane	0.27	0.265	-	1.9	20	86	0
Ethyl ether	0.059	0.063	-	-6.8	20	104	0
1,1-Dichloroethene	0.142	0.154	-	-8.5	20	97	0
Carbon disulfide	0.433	0.492	-	-13.6	20	102	0
Freon-113	0.15	0.158	-	-5.3	20	94	0
Acrolein	0.011	0.016	-	-45.5*	20	145	0
Methylene chloride	0.167	0.189	-	-13.2	20	106	0
Acetone	0.024	0.027	-	-12.5	20	104	0
trans-1,2-Dichloroethene	0.156	0.177	-	-13.5	20	104	0
Methyl acetate	0.059	0.062	-	-5.1	20	115	0
Methyl tert-butyl ether	0.274	0.27	-	1.5	20	97	0
tert-Butyl alcohol	0.00523	0.00585*	-	-11.9	20	107	0
Diisopropyl ether	0.402	0.449	-	-11.7	20	108	0
1,1-Dichloroethane	0.283	0.311	-	-9.9	20	99	0
Halothane	0.122	0.132	-	-8.2	20	101	0
Acrylonitrile	0.029	0.033	-	-13.8	20	108	0
Ethyl tert-butyl ether	0.351	0.342	-	2.6	20	97	0
Vinyl acetate	0.245	0.237	-	3.3	20	96	0
cis-1,2-Dichloroethene	0.173	0.197*	-	-13.9	20	104	0
2,2-Dichloropropane	0.209	0.222	-	-6.2	20	101	0
Bromochloromethane	0.087	0.099*	-	-13.8	20	106	0
Cyclohexane	0.269	0.267	-	0.7	20	92	0
Chloroform	0.283	0.301	-	-6.4	20	99	0
Ethyl acetate	0.08	0.08	-	0	20	104	0
Carbon tetrachloride	0.229	0.226	-	1.3	20	90	0
Tetrahydrofuran	0.021	0.024	-	-14.3	20	108	0
Dibromofluoromethane	0.341	0.356	-	-4.4	20	99	0
1,1,1-Trichloroethane	0.258	0.259	-	-0.4	20	93	0
2-Butanone	0.034	0.042	-	-23.5*	20	123	0
1,1-Dichloropropene	0.208	0.201	-	3.4	20	90	0
Benzene	0.615	0.622	-	-1.1	20	90	0
tert-Amyl methyl ether	0.233	0.231	-	0.9	20	98	0
1,2-Dichloroethane-d4	0.211	0.207	-	1.9	20	95	-.02
1,2-Dichloroethane	0.149	0.152	-	-2	20	94	0
Methyl cyclohexane	0.225	0.208	-	7.6	20	87	0
Trichloroethene	0.143	0.137*	-	4.2	20	94	0
Dibromomethane	0.076	0.084	-	-10.5	20	102	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: VOA122	**Calibration Date**	: 12/19/24 07:38		
Lab File ID	: V22241219A01	**Init. Calib. Date(s)**	: 11/09/24	11/09/24	
Sample No	: WG2011630-2	**Init. Calib. Times**	: 07:44	11:49	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.124	0.129*	-	-4	20	97	0
Bromodichloromethane	0.172	0.18*	-	-4.7	20	99	0
1,4-Dioxane	0.0006	0.00074*	-	-23.3*	20	114	0
cis-1,3-Dichloropropene	0.179	0.185*	-	-3.4	20	95	0
Chlorobenzene-d5	1	1	-	0	20	101	0
Toluene-d8	1.261	1.256	-	0.4	20	99	0
Toluene	0.415	0.439	-	-5.8	20	103	0
4-Methyl-2-pentanone	0.029	0.024*	-	17.2	20	92	0
Tetrachloroethene	0.19	0.198	-	-4.2	20	102	0
trans-1,3-Dichloropropene	0.189	0.185*	-	2.1	20	97	0
Ethyl methacrylate	0.119	0.107	-	10.1	20	87	0
1,1,2-Trichloroethane	0.097	0.099*	-	-2.1	20	100	0
Chlorodibromomethane	0.159	0.152*	-	4.4	20	101	0
1,3-Dichloropropane	0.199	0.197	-	1	20	97	0
1,2-Dibromoethane	0.119	0.121*	-	-1.7	20	101	0
2-Hexanone	0.046	0.045	-	2.2	20	98	0
Chlorobenzene	0.479	0.529	-	-10.4	20	108	0
Ethylbenzene	0.825	0.891	-	-8	20	105	0
1,1,1,2-Tetrachloroethane	0.162	0.162	-	0	20	101	0
p/m Xylene	0.34	0.352	-	-3.5	20	101	0
o Xylene	0.324	0.334	-	-3.1	20	101	0
Styrene	0.522	0.536	-	-2.7	20	100	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	100	0
Bromoform	10	9.164	-	8.4	20	100	0
Isopropylbenzene	1.547	1.714	-	-10.8	20	103	0
4-Bromofluorobenzene	0.816	0.827	-	-1.3	20	98	0
Bromobenzene	0.363	0.403	-	-11	20	107	0
n-Propylbenzene	1.799	1.959	-	-8.9	20	101	0
1,4-Dichlorobutane	0.301	0.336	-	-11.6	20	109	0
1,1,2,2-Tetrachloroethane	0.241	0.244	-	-1.2	20	99	0
4-Ethyltoluene	1.51	1.667	-	-10.4	20	103	0
2-Chlorotoluene	1.024	1.112	-	-8.6	20	102	0
1,3,5-Trimethylbenzene	1.315	1.408	-	-7.1	20	101	0
1,2,3-Trichloropropane	0.193	0.184	-	4.7	20	94	0
trans-1,4-Dichloro-2-buten	0.061	0.054	-	11.5	20	87	0
4-Chlorotoluene	1.066	1.174	-	-10.1	20	105	0
tert-Butylbenzene	1.131	1.254	-	-10.9	20	104	0
1,2,4-Trimethylbenzene	0.747	0.939	-	-25.7*	20	120	0
sec-Butylbenzene	1.6	1.789	-	-11.8	20	104	0
p-Isopropyltoluene	1.4	1.56	-	-11.4	20	103	0
1,3-Dichlorobenzene	0.737	0.828	-	-12.3	20	108	0
1,4-Dichlorobenzene	0.736	0.811	-	-10.2	20	107	0
p-Diethylbenzene	0.808	0.901	-	-11.5	20	106	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: VOA122	**Calibration Date**	: 12/19/24 07:38		
Lab File ID	: V22241219A01	**Init. Calib. Date(s)**	: 11/09/24	11/09/24	
Sample No	: WG2011630-2	**Init. Calib. Times**	: 07:44	11:49	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
n-Butylbenzene	1.113	1.25	-	-12.3	20	104	0
1,2-Dichlorobenzene	0.657	0.738	-	-12.3	20	107	0
1,2,4,5-Tetramethylbenzene	1.105	1.239	-	-12.1	20	105	0
1,2-Dibromo-3-chloropropan	0.038	0.037	-	2.6	20	97	0
1,3,5-Trichlorobenzene	0.44	0.529	-	-20.2*	20	113	0
Hexachlorobutadiene	0.146	0.182	-	-24.7*	20	122	0
1,2,4-Trichlorobenzene	0.384	0.445	-	-15.9	20	112	0
Naphthalene	0.854	0.912	-	-6.8	20	100	0
1,2,3-Trichlorobenzene	0.326	0.379*	-	-16.3	20	111	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : K:\VOA122\2024\241219A\
Data File : V22241219A01.D
Acq On : 19 Dec 2024 07:38 am
Operator : VOA122:PID
Sample : WG2011630-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2011630,ICAL21691 (Sig #1); WG,ICAL21691 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 08:05:13 2024
Quant Method : K:\VOA122\2024\241219A\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	97	0.00
2	TP	Dichlorodifluoromethane	0.207	0.213	-2.9	89	0.00
3	TP	Chloromethane	0.177	0.216	-22.0#	110	0.00
4	TP	Vinyl chloride	0.236	0.212	10.2	79	0.00
5	TP	Bromomethane	0.170	0.056	67.1#	30#	0.00
6	TP	Chloroethane	0.162	0.121	25.3#	68	0.00
7	TP	Trichlorofluoromethane	0.270	0.265	1.9	86	0.00
8	TP	Ethyl ether	0.059	0.063	-6.8	104	0.00
10	TP	1,1-Dichloroethene	0.142	0.154	-8.5	97	0.00
11	TP	Carbon disulfide	0.433	0.492	-13.6	102	0.00
12	TP	Freon-113	0.150	0.158	-5.3	94	0.00
14	TP	Acrolein	0.011	0.016	-45.5#	145	0.00
15	TP	Methylene chloride	0.167	0.189	-13.2	106	0.00
17	TP	Acetone	0.024	0.027	-12.5	104	0.00
18	TP	trans-1,2-Dichloroethene	0.156	0.177	-13.5	104	0.00
19	TP	Methyl acetate	0.059	0.062	-5.1	115	0.00
21	TP	Methyl tert-butyl ether	0.274	0.270	1.5	97	0.00
22	TP	tert-Butyl alcohol	0.00523	0.00585#	-11.9	107	0.00
24	TP	Diisopropyl ether	0.402	0.449	-11.7	108	0.00
25	TP	1,1-Dichloroethane	0.283	0.311	-9.9	99	0.00
26	TP	Halothane	0.122	0.132	-8.2	101	0.00
27	TP	Acrylonitrile	0.029	0.033	-13.8	108	0.00
28	TP	Ethyl tert-butyl ether	0.351	0.342	2.6	97	0.00
29	TP	Vinyl acetate	0.245	0.237	3.3	96	0.00
30	TP	cis-1,2-Dichloroethene	0.173	0.197#	-13.9	104	0.00
31	TP	2,2-Dichloropropane	0.209	0.222	-6.2	101	0.00
32	TP	Bromochloromethane	0.087	0.099#	-13.8	106	0.00
33	TP	Cyclohexane	0.269	0.267	0.7	92	0.00
34	TP	Chloroform	0.283	0.301	-6.4	99	0.00
35	TP	Ethyl acetate	0.080	0.080	0.0	104	0.00
36	TP	Carbon tetrachloride	0.229	0.226	1.3	90	0.00
37	TP	Tetrahydrofuran	0.021	0.024	-14.3	108	0.00
38	S	Dibromofluoromethane	0.341	0.356	-4.4	99	0.00
39	TP	1,1,1-Trichloroethane	0.258	0.259	-0.4	93	0.00
41	TP	2-Butanone	0.034	0.042	-23.5#	123	0.00
42	TP	1,1-Dichloropropene	0.208	0.201	3.4	90	0.00
44	TP	Benzene	0.615	0.622	-1.1	90	0.00
45	TP	tert-Amyl methyl ether	0.233	0.231	0.9	98	0.00
46	S	1,2-Dichloroethane-d4	0.211	0.207	1.9	95	-0.02

Evaluate Continuing Calibration Report

Data Path : K:\VOA122\2024\241219A\
Data File : V22241219A01.D
Acq On : 19 Dec 2024 07:38 am
Operator : VOA122:PID
Sample : WG2011630-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2011630,ICAL21691 (Sig #1); WG,ICAL21691 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 08:05:13 2024
Quant Method : K:\VOA122\2024\241219A\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)
47	T	1,2-Dichloroethane	0.149	0.152	-2.0	94	0.00
50	TP	Methyl cyclohexane	0.225	0.208	7.6	87	0.00
51	TP	Trichloroethene	0.143	0.137#	4.2	94	0.00
53	TP	Dibromomethane	0.076	0.084	-10.5	102	0.00
54	TP	1,2-Dichloropropane	0.124	0.129#	-4.0	97	0.00
57	TP	Bromodichloromethane	0.172	0.180#	-4.7	99	0.00
60	TP	1,4-Dioxane	0.00060	0.00074#	-23.3#	114	0.00
61	TP	cis-1,3-Dichloropropene	0.179	0.185#	-3.4	95	0.00
62	I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
63	S	Toluene-d8	1.261	1.256	0.4	99	0.00
64	TP	Toluene	0.415	0.439	-5.8	103	0.00
65	TP	4-Methyl-2-pentanone	0.029	0.024#	17.2	92	0.00
66	TP	Tetrachloroethene	0.190	0.198	-4.2	102	0.00
68	TP	trans-1,3-Dichloropropene	0.189	0.185#	2.1	97	0.00
70	TP	Ethyl methacrylate	0.119	0.107	10.1	87	0.00
71	TP	1,1,2-Trichloroethane	0.097	0.099#	-2.1	100	0.00
72	TP	Chlorodibromomethane	0.159	0.152#	4.4	101	0.00
73	TP	1,3-Dichloropropane	0.199	0.197	1.0	97	0.00
74	TP	1,2-Dibromoethane	0.119	0.121#	-1.7	101	0.00
76	TP	2-Hexanone	0.046	0.045	2.2	98	0.00
77	TP	Chlorobenzene	0.479	0.529	-10.4	108	0.00
78	TP	Ethylbenzene	0.825	0.891	-8.0	105	0.00
79	TP	1,1,1,2-Tetrachloroethane	0.162	0.162	0.0	101	0.00
80	TP	p/m Xylene	0.340	0.352	-3.5	101	0.00
81	TP	o Xylene	0.324	0.334	-3.1	101	0.00
82	TP	Styrene	0.522	0.536	-2.7	100	0.00
83	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
84	TP	Bromoform	* 10.000	9.164	8.4	100	0.00
86	TP	Isopropylbenzene	1.547	1.714	-10.8	103	0.00
87	S	4-Bromofluorobenzene	0.816	0.827	-1.3	98	0.00
88	TP	Bromobenzene	0.363	0.403	-11.0	107	0.00
89	TP	n-Propylbenzene	1.799	1.959	-8.9	101	0.00
90	TP	1,4-Dichlorobutane	0.301	0.336	-11.6	109	0.00
91	TP	1,1,2,2-Tetrachloroethane	0.241	0.244	-1.2	99	0.00
92	TP	4-Ethyltoluene	1.510	1.667	-10.4	103	0.00
93	TP	2-Chlorotoluene	1.024	1.112	-8.6	102	0.00
94	TP	1,3,5-Trimethylbenzene	1.315	1.408	-7.1	101	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA122\2024\241219A\
Data File : V22241219A01.D
Acq On : 19 Dec 2024 07:38 am
Operator : VOA122:PID
Sample : WG2011630-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2011630,ICAL21691 (Sig #1); WG,ICAL21691 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 08:05:13 2024
Quant Method : K:\VOA122\2024\241219A\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)
95 TP	1,2,3-Trichloropropane	0.193	0.184	4.7	94	0.00
96 TP	trans-1,4-Dichloro-2-butene	0.061	0.054	11.5	87	0.00
97 TP	4-Chlorotoluene	1.066	1.174	-10.1	105	0.00
98 TP	tert-Butylbenzene	1.131	1.254	-10.9	104	0.00
101 TP	1,2,4-Trimethylbenzene	0.747	0.939	-25.7#	120	0.00
102 TP	sec-Butylbenzene	1.600	1.789	-11.8	104	0.00
103 TP	p-Isopropyltoluene	1.400	1.560	-11.4	103	0.00
104 TP	1,3-Dichlorobenzene	0.737	0.828	-12.3	108	0.00
105 TP	1,4-Dichlorobenzene	0.736	0.811	-10.2	107	0.00
106 TP	p-Diethylbenzene	0.808	0.901	-11.5	106	0.00
107 TP	n-Butylbenzene	1.113	1.250	-12.3	104	0.00
108 TP	1,2-Dichlorobenzene	0.657	0.738	-12.3	107	0.00
109 TP	1,2,4,5-Tetramethylbenzene	1.105	1.239	-12.1	105	0.00
110 TP	1,2-Dibromo-3-chloropropane	0.038	0.037	2.6	97	0.00
111 TP	1,3,5-Trichlorobenzene	0.440	0.529	-20.2#	113	0.00
112 TP	Hexachlorobutadiene	0.146	0.182	-24.7#	122	0.00
113 TP	1,2,4-Trichlorobenzene	0.384	0.445	-15.9	112	0.00
114 TP	Naphthalene	0.854	0.912	-6.8	100	0.00
115 TP	1,2,3-Trichlorobenzene	0.326	0.379#	-16.3	111	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 14 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241219A\
Data File : V22241219A01.D
Acq On : 19 Dec 2024 07:38 am
Operator : VOA122:PID
Sample : WG2011630-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2011630,ICAL21691 (Sig #1); WG,ICAL21691 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 08:05:13 2024
Quant Method : K:\VOA122\2024\241219A\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\241219A\V22241219A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.944	96	506888	10.000	ug/L	0.00
Standard Area 1 = 506888			Recovery = 100.00%			
62) Chlorobenzene-d5	9.484	117	423029	10.000	ug/L	0.00
Standard Area 1 = 423029			Recovery = 100.00%			
83) 1,4-Dichlorobenzene-d4	12.201	152	228806	10.000	ug/L	0.00
Standard Area 1 = 228806			Recovery = 100.00%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.138	113	180597	10.439	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.39%			
46) 1,2-Dichloroethane-d4	5.649	65	105053	9.826	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.26%			
63) Toluene-d8	7.640	98	531380	9.963	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.63%			
87) 4-Bromofluorobenzene	10.984	95	189299	10.134	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.34%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.618	85	108029	10.320	ug/L	98
3) Chloromethane	1.802	50	109237	12.194	ug/L	98
4) Vinyl chloride	1.874	62	107350	8.985	ug/L	98
5) Bromomethane	2.175	94	28262	3.274	ug/L	100
6) Chloroethane	2.293	64	61572	7.520	ug/L	97
7) Trichlorofluoromethane	2.431	101	134304	9.823	ug/L	99
8) Ethyl ether	2.726	74	31827	10.575	ug/L #	1
10) 1,1-Dichloroethene	2.916	96	78086	10.825	ug/L	95
11) Carbon disulfide	2.949	76	249560	11.381	ug/L	99
12) Freon-113	2.955	101	80127	10.563	ug/L	96
14) Acrolein	3.224	56	7888	14.435	ug/L	97
15) Methylene chloride	3.460	84	95699	11.290	ug/L	82
17) Acetone	3.493	43	13818	11.321	ug/L	95
18) trans-1,2-Dichloroethene	3.611	96	89972	11.362	ug/L	97
19) Methyl acetate	3.611	43	31651	10.671	ug/L #	89
21) Methyl tert-butyl ether	3.702	73	136892	9.856	ug/L #	88
22) tert-Butyl alcohol	3.781	59	14828	55.901	ug/L #	83
24) Diisopropyl ether	4.063	45	227560	11.160	ug/L	95
25) 1,1-Dichloroethane	4.181	63	157447	10.982	ug/L	98
26) Halothane	4.233	117	66670	10.801	ug/L	100
27) Acrylonitrile	4.220	53	16566	11.372	ug/L	95

Data Path : K:\VOA122\2024\241219A\
Data File : V22241219A01.D
Acq On : 19 Dec 2024 07:38 am
Operator : VOA122:PID
Sample : WG2011630-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2011630,ICAL21691 (Sig #1); WG,ICAL21691 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 08:05:13 2024
Quant Method : K:\VOA122\2024\241219A\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\241219A\V22241219A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
28) Ethyl tert-butyl ether	4.410	59	173568	9.748	ug/L		94
29) Vinyl acetate	4.417	43	120026	9.663	ug/L	#	93
30) cis-1,2-Dichloroethene	4.699	96	99752	11.383	ug/L		95
31) 2,2-Dichloropropane	4.804	77	112368	10.606	ug/L		85
32) Bromochloromethane	4.889	128	50185	11.393	ug/L		92
33) Cyclohexane	4.902	56	135313	9.911	ug/L		85
34) Chloroform	4.961	83	152380	10.630	ug/L		97
35) Ethyl acetate	5.072	43	40761	10.086	ug/L		96
36) Carbon tetrachloride	5.098	117	114311	9.858	ug/L		97
37) Tetrahydrofuran	5.112	42	12128M6	11.336	ug/L		
39) 1,1,1-Trichloroethane	5.164	97	131254	10.043	ug/L		99
41) 2-Butanone	5.249	43	21254	12.258	ug/L	#	50
42) 1,1-Dichloropropene	5.282	75	101859	9.640	ug/L		99
44) Benzene	5.531	78	315134	10.105	ug/L		95
45) tert-Amyl methyl ether	5.642	73	116935	9.903	ug/L	#	85
47) 1,2-Dichloroethane	5.728	62	77117	10.179	ug/L		100
50) Methyl cyclohexane	6.121	83	105219	9.205	ug/L		87
51) Trichloroethene	6.121	95	69196	9.534	ug/L		98
53) Dibromomethane	6.556	93	42548	11.012	ug/L	#	85
54) 1,2-Dichloropropane	6.660	63	65518	10.452	ug/L		98
57) Bromodichloromethane	6.736	83	91249	10.481	ug/L		96
60) 1,4-Dioxane	6.945	88	18766	621.716	ug/L	#	82
61) cis-1,3-Dichloropropene	7.425	75	93567	10.322	ug/L	#	90
64) Toluene	7.696	92	185909	10.595	ug/L		99
65) 4-Methyl-2-pentanone	8.127	58	10302	8.534	ug/L	#	75
66) Tetrachloroethene	8.147	166	83657	10.403	ug/L		96
68) trans-1,3-Dichloropropene	8.175	75	78109	9.750	ug/L		92
70) Ethyl methacrylate	8.370	69	45167	8.943	ug/L		82
71) 1,1,2-Trichloroethane	8.356	83	41774	10.203	ug/L		97
72) Chlorodibromomethane	8.572	129	64489	9.566	ug/L		99
73) 1,3-Dichloropropane	8.684	76	83247	9.865	ug/L		100
74) 1,2-Dibromoethane	8.845	107	51218	10.169	ug/L		99
76) 2-Hexanone	9.140	43	19014	9.685	ug/L		89
77) Chlorobenzene	9.505	112	223855	11.046	ug/L	#	87
78) Ethylbenzene	9.547	91	377026	10.805	ug/L		100
79) 1,1,1,2-Tetrachloroethane	9.589	131	68698	10.010	ug/L		97
80) p/m Xylene	9.736	106	297885	20.694	ug/L		98
81) o Xylene	10.276	106	282258	20.569	ug/L		99
82) Styrene	10.346	104	453170	20.540	ug/L		97
84) Bromoform	10.360	173	34305	9.164	ug/L		100

Data Path : K:\VOA122\2024\241219A\
Data File : V22241219A01.D
Acq On : 19 Dec 2024 07:38 am
Operator : VOA122:PID
Sample : WG2011630-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2011630,ICAL21691 (Sig #1); WG,ICAL21691 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 08:05:13 2024
Quant Method : K:\VOA122\2024\241219A\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\241219A\V22241219A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
86) Isopropylbenzene	10.662	105	392071	11.076	ug/L		99
88) Bromobenzene	11.096	156	92210	11.101	ug/L		99
89) n-Propylbenzene	11.146	91	448288	10.891	ug/L		100
90) 1,4-Dichlorobutane	11.153	55	76768	11.131	ug/L		97
91) 1,1,2,2-Tetrachloroethane	11.230	83	55822	10.129	ug/L		99
92) 4-Ethyltoluene	11.279	105	381383	11.036	ug/L		99
93) 2-Chlorotoluene	11.307	91	254522M6	10.868	ug/L		
94) 1,3,5-Trimethylbenzene	11.377	105	322200	10.713	ug/L		99
95) 1,2,3-Trichloropropane	11.363	75	42022	9.526	ug/L		96
96) trans-1,4-Dichloro-2-b...	11.419	53	12252	8.833	ug/L	#	76
97) 4-Chlorotoluene	11.496	91	268645	11.011	ug/L		97
98) tert-Butylbenzene	11.714	119	286964	11.092	ug/L		98
101) 1,2,4-Trimethylbenzene	11.791	105	214837	12.573	ug/L		99
102) sec-Butylbenzene	11.909	105	409244	11.178	ug/L		100
103) p-Isopropyltoluene	12.062	119	356946	11.142	ug/L		99
104) 1,3-Dichlorobenzene	12.125	146	189409	11.240	ug/L		98
105) 1,4-Dichlorobenzene	12.215	146	185564	11.020	ug/L		98
106) p-Diethylbenzene	12.438	119	206179	11.149	ug/L		99
107) n-Butylbenzene	12.501	91	286018	11.228	ug/L		99
108) 1,2-Dichlorobenzene	12.640	146	168895	11.233	ug/L		98
109) 1,2,4,5-Tetramethylben...	13.239	119	283425	11.208	ug/L		99
110) 1,2-Dibromo-3-chloropr...	13.420	155	8432	9.819	ug/L		94
111) 1,3,5-Trichlorobenzene	13.454	180	120927	12.023	ug/L		98
112) Hexachlorobutadiene	14.039	225	41576	12.414	ug/L		98
113) 1,2,4-Trichlorobenzene	14.053	180	101933	11.602	ug/L		99
114) Naphthalene	14.352	128	208654	10.680	ug/L		100
115) 1,2,3-Trichlorobenzene	14.519	180	86704	11.625	ug/L		99

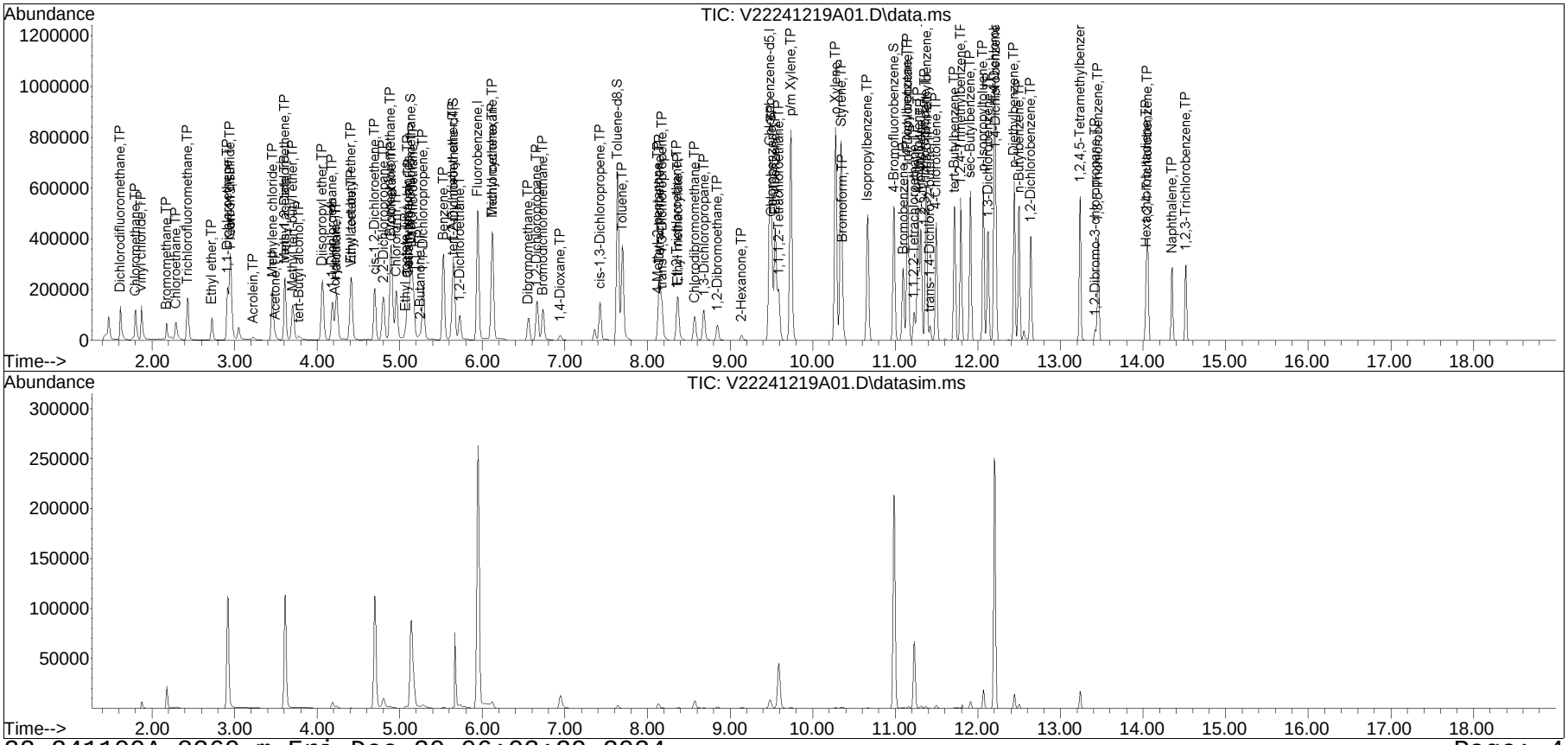
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241219A\
Data File : V22241219A01.D
Acq On : 19 Dec 2024 07:38 am
Operator : VOA122:PID
Sample : WG2011630-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2011630,ICAL21691 (Sig #1); WG,ICAL21691 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 08:05:13 2024
Quant Method : K:\VOA122\2024\241219A\V122_241109A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 11 12:28:19 2024
Response via : Initial Calibration

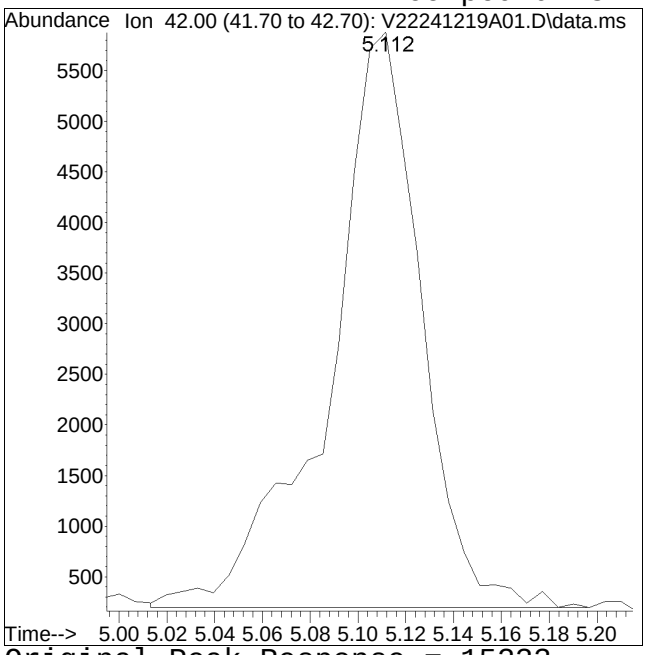
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane



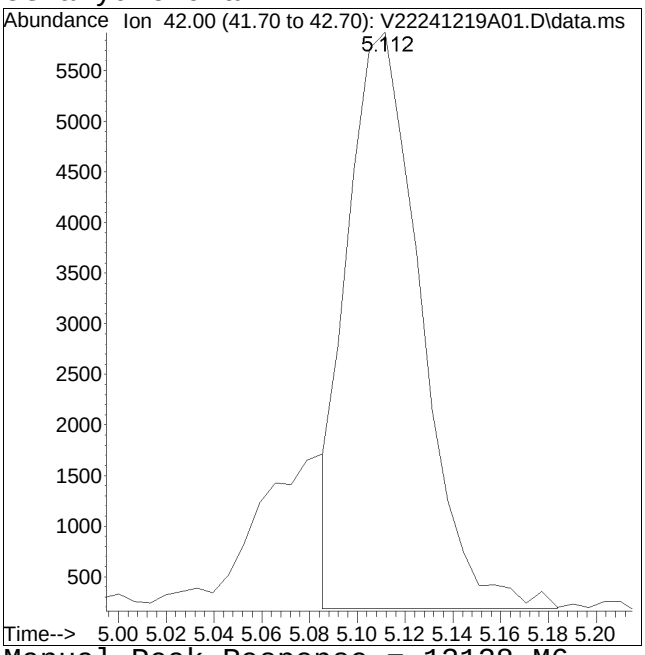
Manual Integration Report

Data Path	: K:\VOA122\2024\241219A\	QMethod	: V122_241109A_8260.m
Data File	: V22241219A01.D	Operator	: VOA122:PID
Date Inj'd	: 12/19/2024 7:38 am	Instrument	: VOA 122
Sample	: WG2011630-2	Quant Date	: 12/19/2024 8:04 am

Compound #37: Tetrahydrofuran



Original Peak Response = 15233



Manual Peak Response = 12128 M6

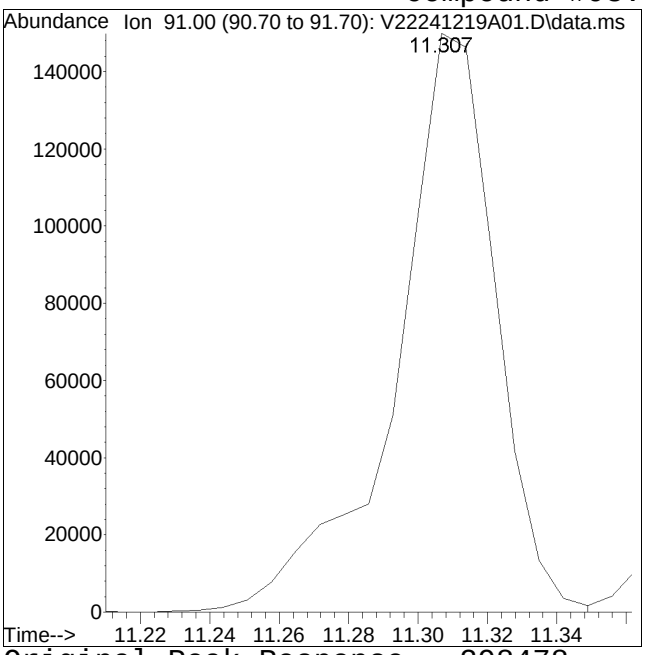
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

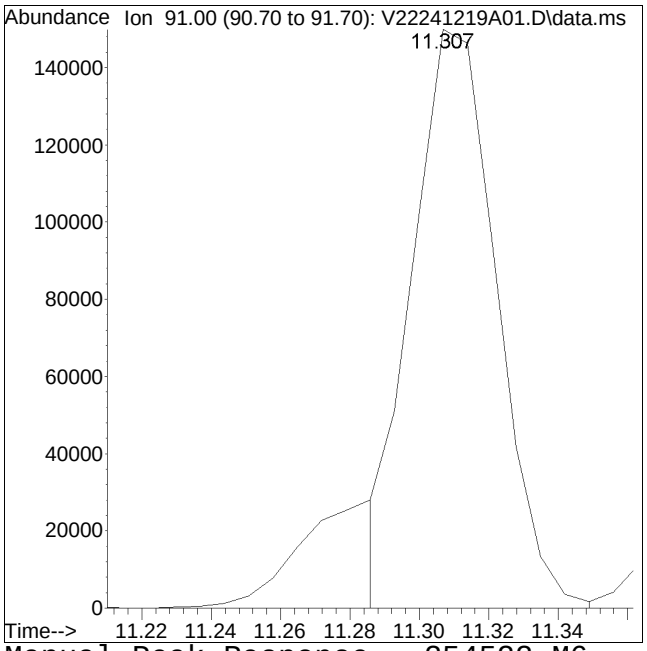
Data Path : K:\VOA122\2024\241219A\
Data File : V22241219A01.D
Date Inj'd : 12/19/2024 7:38 am
Sample : WG2011630-2

QMethod : V122_241109A_8260.m
Operator : VOA122:PID
Instrument : VOA 122
Quant Date : 12/19/2024 8:04 am

Compound #93: 2-Chlorotoluene



Original Peak Response = 298478



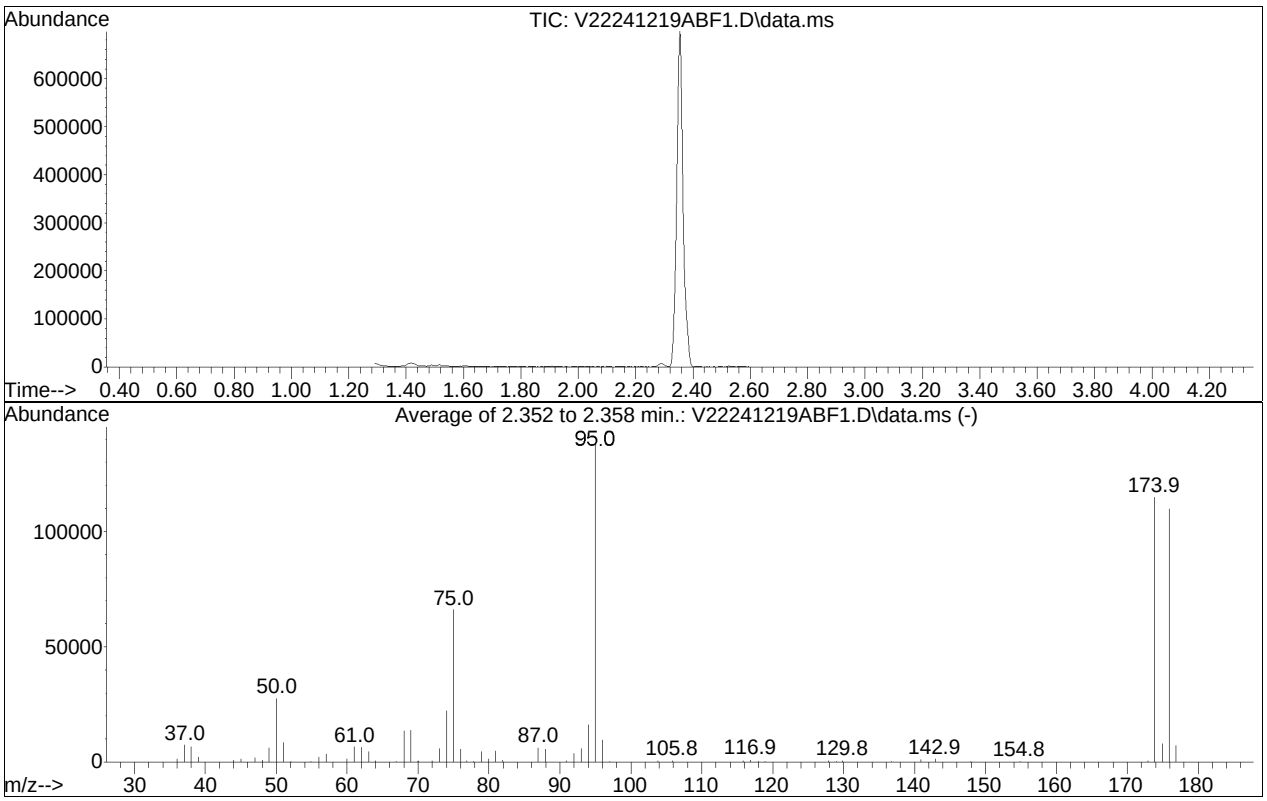
Manual Peak Response = 254522 M6

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

Data Path : K:\VOA122\2024\241219A\
Data File : V22241219ABF1.D
Acq On : 19 Dec 2024 07:25 am
Operator : VOA122:PID
Sample : WG2011630-1
Misc : WG2011630,ICAL21691
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA122\2024\241219A\V122_241109A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Nov 11 12:28:19 2024



Spectrum Information: Average of 2.352 to 2.358 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.9	27595	PASS
75	95	30	60	47.7	66080	PASS
95	95	100	100	100.0	138557	PASS
96	95	5	9	7.0	9648	PASS
173	174	0.00	2	0.5	595	PASS
174	95	50	100	82.9	114909	PASS
175	174	5	9	7.1	8118	PASS
176	174	95	101	95.7	109971	PASS
177	176	5	9	6.6	7274	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241219A\
Data File : V22241219A05.D
Acq On : 19 Dec 2024 09:16 am
Operator : VOA122:PID
Sample : WG2011630-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG2011630,ICAL21691 (Sig #1); WG,ICAL21691 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 19 12:11:20 2024
Quant Method : K:\VOA122\2024\241219A\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\241219A\V22241219A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.944	96	490622	10.000	ug/L	0.00
Standard Area 1 = 506888			Recovery = 96.79%			
62) Chlorobenzene-d5	9.484	117	408489	10.000	ug/L	0.00
Standard Area 1 = 423029			Recovery = 96.56%			
83) 1,4-Dichlorobenzene-d4	12.202	152	212486	10.000	ug/L	0.00
Standard Area 1 = 228806			Recovery = 92.87%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.131	113	174988	10.450	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.50%			
46) 1,2-Dichloroethane-d4	5.649	65	103589	10.011	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.11%			
63) Toluene-d8	7.640	98	514278	9.986	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.86%			
87) 4-Bromofluorobenzene	10.984	95	177485	10.232	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.32%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.795	50	209	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.175	94	123	N.D.		
6) Chloroethane	2.274	64	315	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.942	76	463	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.460	84	66	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\241219A\
Data File : V22241219A05.D
Acq On : 19 Dec 2024 09:16 am
Operator : VOA122:PID
Sample : WG2011630-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG2011630,ICAL21691 (Sig #1); WG,ICAL21691 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 19 12:11:20 2024
Quant Method : K:\VOA122\2024\241219A\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\241219A\V22241219A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

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	3271	1.949	ug/L #	44
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	733	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	77	N.D.		
105) 1,4-Dichlorobenzene	12.216	146	77	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	14.053	180	69	N.D.		
115) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

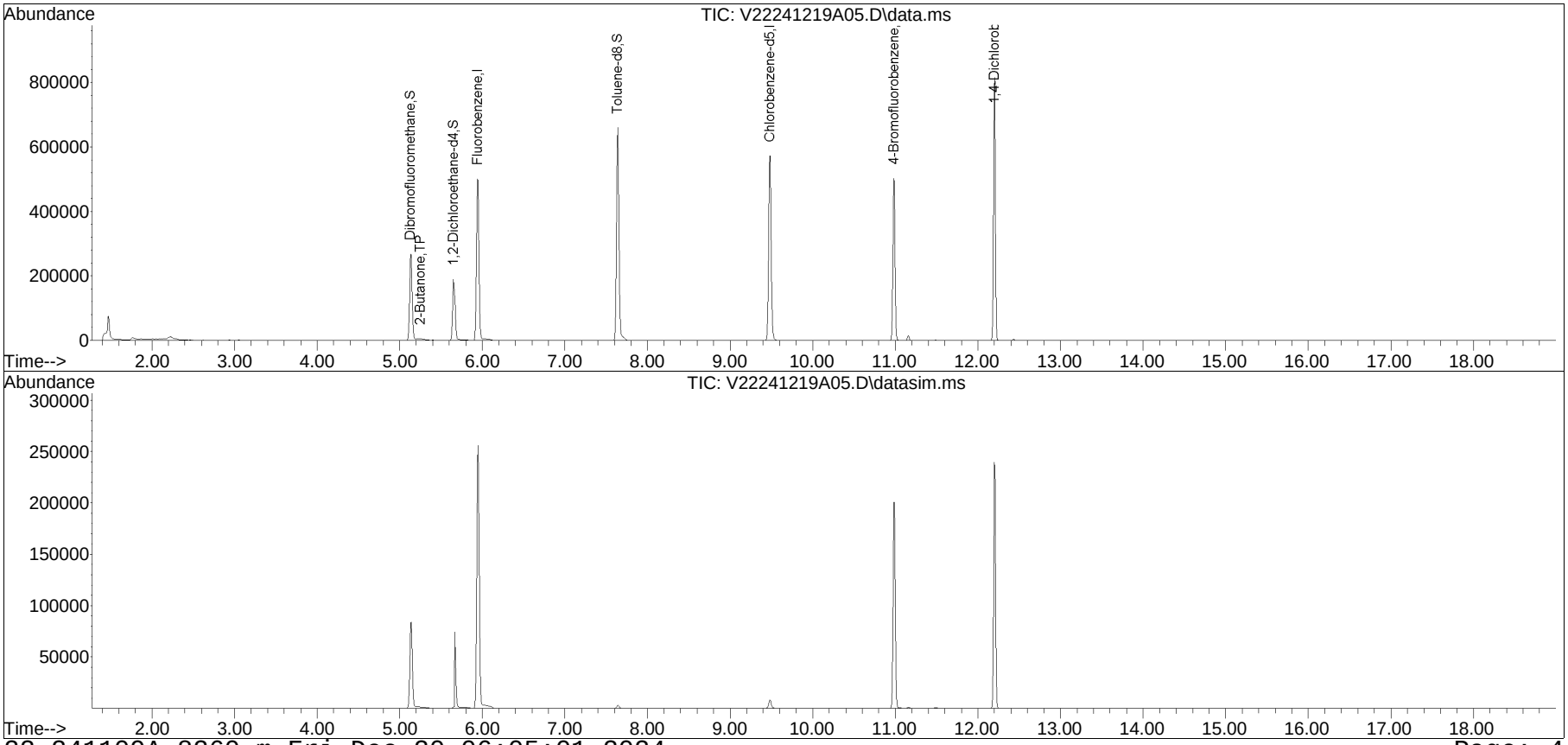
(#) = qualifier out of range (m) = manual integration (+) = signals summed

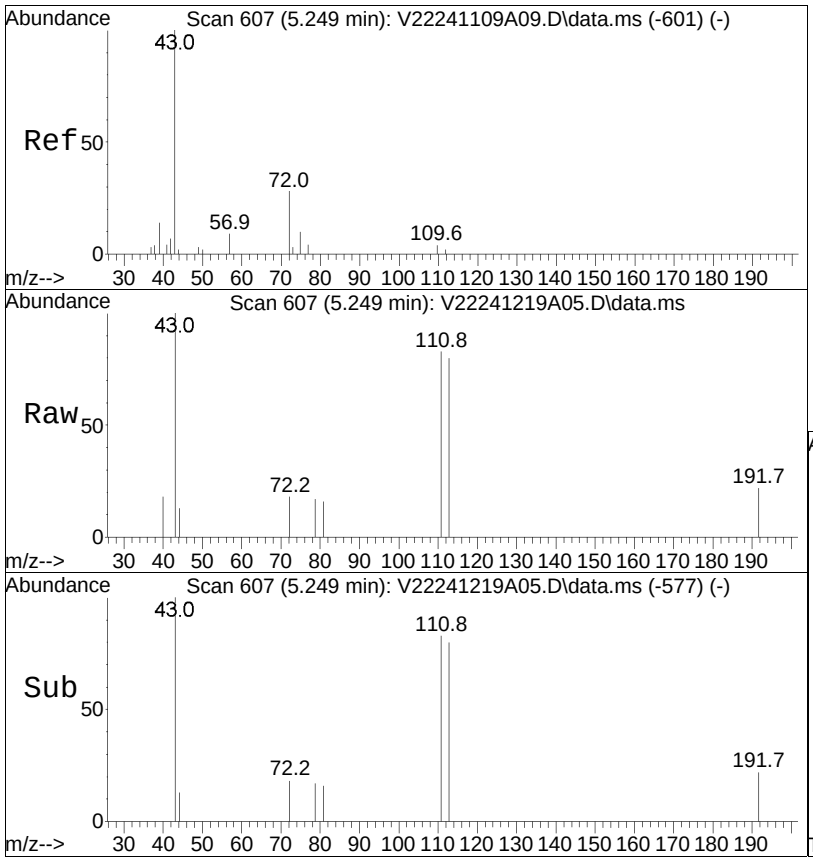
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241219A\
Data File : V22241219A05.D
Acq On : 19 Dec 2024 09:16 am
Operator : VOA122:PID
Sample : WG2011630-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG2011630,ICAL21691 (Sig #1); WG,ICAL21691 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 19 12:11:20 2024
Quant Method : K:\VOA122\2024\241219A\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-IM-2CEVE - Megamix plus Diox-Iodomethane

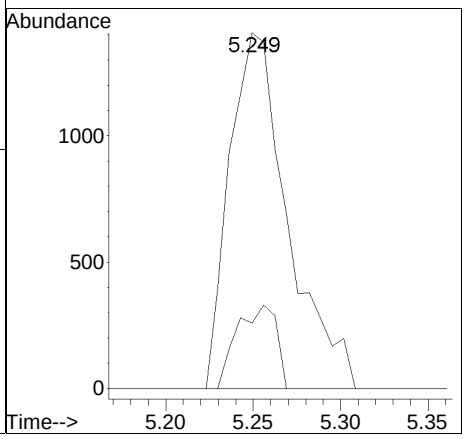




#41
2-Butanone
Concen: 1.95 ug/L
RT: 5.249 min Scan# 607
Delta R.T. -0.000 min
Lab File: V22241219A05.D
Acq: 19 Dec 2024 09:16 am

Tgt Ion: 43 Resp: 3271

Ion	Ratio	Lower	Upper
43	100		
72	15.8	45.8	68.8#



Manual Integration Report

Data Path	: K:\VOA122\2024\241219A\	QMethod	: V122_241109A_8260.m
Data File	: V22241219A05.D	Operator	: VOA122:PID
Date Inj'd	: 12/19/2024 9:16 am	Instrument	: VOA 122
Sample	: WG2011630-5,31,10,10	Quant Date	: 12/19/2024 12:09 pm

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241219A\
Data File : V22241219A01.D
Acq On : 19 Dec 2024 07:38 am
Operator : VOA122:PID
Sample : WG2011630-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2011630,ICAL21691 (Sig #1); WG,ICAL21691 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 08:05:13 2024
Quant Method : K:\VOA122\2024\241219A\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\241219A\V22241219A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.944	96	506888	10.000	ug/L	0.00
Standard Area 1 = 506888			Recovery = 100.00%			
62) Chlorobenzene-d5	9.484	117	423029	10.000	ug/L	0.00
Standard Area 1 = 423029			Recovery = 100.00%			
83) 1,4-Dichlorobenzene-d4	12.201	152	228806	10.000	ug/L	0.00
Standard Area 1 = 228806			Recovery = 100.00%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.138	113	180597	10.439	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.39%			
46) 1,2-Dichloroethane-d4	5.649	65	105053	9.826	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.26%			
63) Toluene-d8	7.640	98	531380	9.963	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.63%			
87) 4-Bromofluorobenzene	10.984	95	189299	10.134	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.34%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.618	85	108029	10.320	ug/L	98
3) Chloromethane	1.802	50	109237	12.194	ug/L	98
4) Vinyl chloride	1.874	62	107350	8.985	ug/L	98
5) Bromomethane	2.175	94	28262	3.274	ug/L	100
6) Chloroethane	2.293	64	61572	7.520	ug/L	97
7) Trichlorofluoromethane	2.431	101	134304	9.823	ug/L	99
10) 1,1-Dichloroethene	2.916	96	78086	10.825	ug/L	95
11) Carbon disulfide	2.949	76	249560	11.381	ug/L	99
12) Freon-113	2.955	101	80127	10.563	ug/L	96
15) Methylene chloride	3.460	84	95699	11.290	ug/L	82
17) Acetone	3.493	43	13818	11.321	ug/L	95
18) trans-1,2-Dichloroethene	3.611	96	89972	11.362	ug/L	97
19) Methyl acetate	3.611	43	31651	10.671	ug/L #	89
21) Methyl tert-butyl ether	3.702	73	136892	9.856	ug/L #	88
25) 1,1-Dichloroethane	4.181	63	157447	10.982	ug/L	98
30) cis-1,2-Dichloroethene	4.699	96	99752	11.383	ug/L	95
32) Bromochloromethane	4.889	128	50185	11.393	ug/L	92
33) Cyclohexane	4.902	56	135313	9.911	ug/L	85
34) Chloroform	4.961	83	152380	10.630	ug/L	97
36) Carbon tetrachloride	5.098	117	114311	9.858	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241219A\
Data File : V22241219A01.D
Acq On : 19 Dec 2024 07:38 am
Operator : VOA122:PID
Sample : WG2011630-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2011630,ICAL21691 (Sig #1); WG,ICAL21691 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 08:05:13 2024
Quant Method : K:\VOA122\2024\241219A\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\241219A\V22241219A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) 1,1,1-Trichloroethane	5.164	97	131254	10.043	ug/L		99
41) 2-Butanone	5.249	43	21254	12.258	ug/L	#	50
44) Benzene	5.531	78	315134	10.105	ug/L		95
47) 1,2-Dichloroethane	5.728	62	77117	10.179	ug/L		100
50) Methyl cyclohexane	6.121	83	105219	9.205	ug/L		87
51) Trichloroethene	6.121	95	69196	9.534	ug/L		98
54) 1,2-Dichloropropane	6.660	63	65518	10.452	ug/L		98
57) Bromodichloromethane	6.736	83	91249	10.481	ug/L		96
61) cis-1,3-Dichloropropene	7.425	75	93567	10.322	ug/L	#	90
64) Toluene	7.696	92	185909	10.595	ug/L		99
65) 4-Methyl-2-pentanone	8.127	58	10302	8.534	ug/L	#	75
66) Tetrachloroethene	8.147	166	83657	10.403	ug/L		96
68) trans-1,3-Dichloropropene	8.175	75	78109	9.750	ug/L		92
71) 1,1,2-Trichloroethane	8.356	83	41774	10.203	ug/L		97
72) Chlorodibromomethane	8.572	129	64489	9.566	ug/L		99
74) 1,2-Dibromoethane	8.845	107	51218	10.169	ug/L		99
76) 2-Hexanone	9.140	43	19014	9.685	ug/L		89
77) Chlorobenzene	9.505	112	223855	11.046	ug/L	#	87
78) Ethylbenzene	9.547	91	377026	10.805	ug/L		100
80) p/m Xylene	9.736	106	297885	20.694	ug/L		98
81) o Xylene	10.276	106	282258	20.569	ug/L		99
82) Styrene	10.346	104	453170	20.540	ug/L		97
84) Bromoform	10.360	173	34305	9.164	ug/L		100
86) Isopropylbenzene	10.662	105	392071	11.076	ug/L		99
91) 1,1,2,2-Tetrachloroethane	11.230	83	55822	10.129	ug/L		99
104) 1,3-Dichlorobenzene	12.125	146	189409	11.240	ug/L		98
105) 1,4-Dichlorobenzene	12.215	146	185564	11.020	ug/L		98
108) 1,2-Dichlorobenzene	12.640	146	168895	11.233	ug/L		98
110) 1,2-Dibromo-3-chloropr...	13.420	155	8432	9.819	ug/L		94
113) 1,2,4-Trichlorobenzene	14.053	180	101933	11.602	ug/L		99
115) 1,2,3-Trichlorobenzene	14.519	180	86704	11.625	ug/L		99

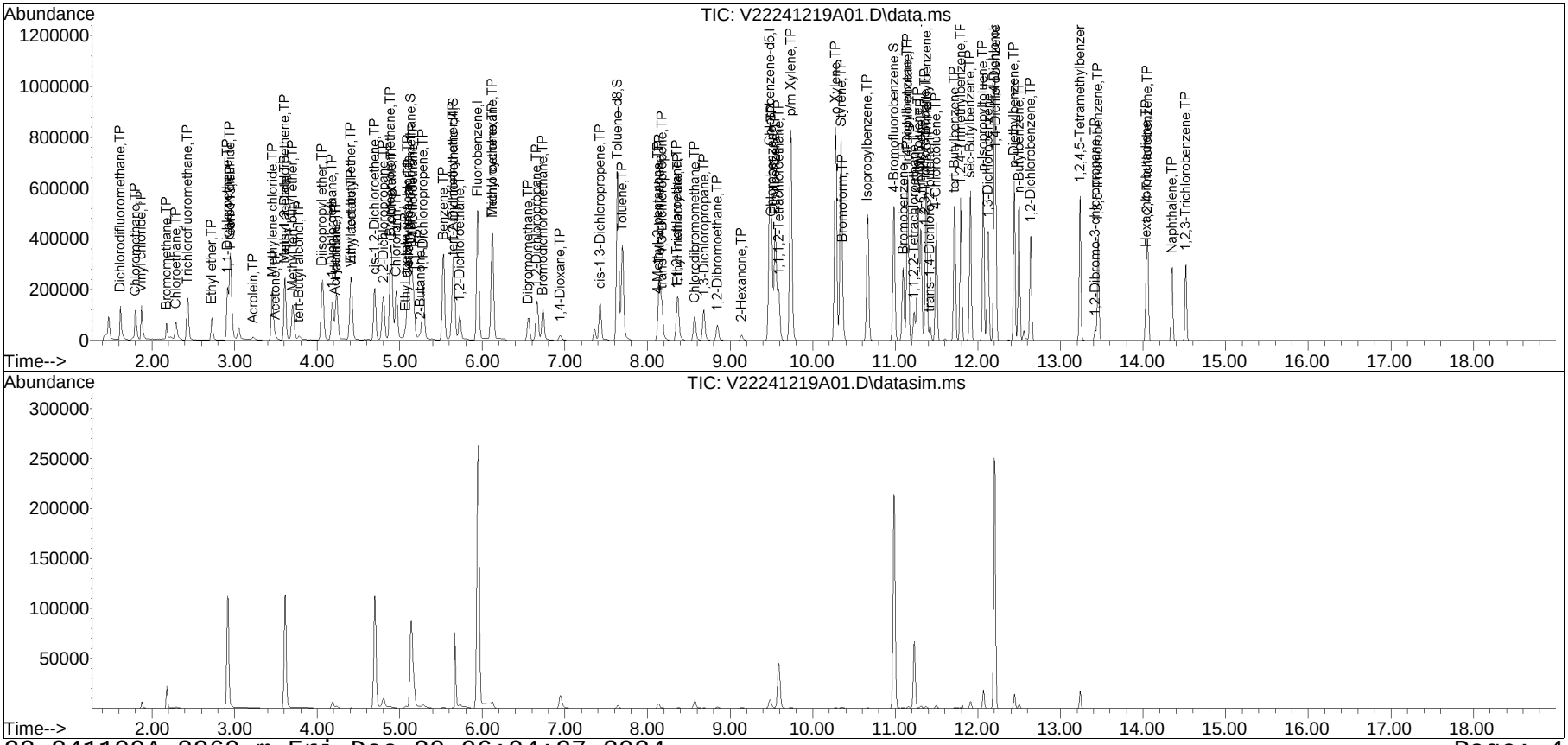
(#) = qualifier out of range (m) = manual integration (+) = signals summed

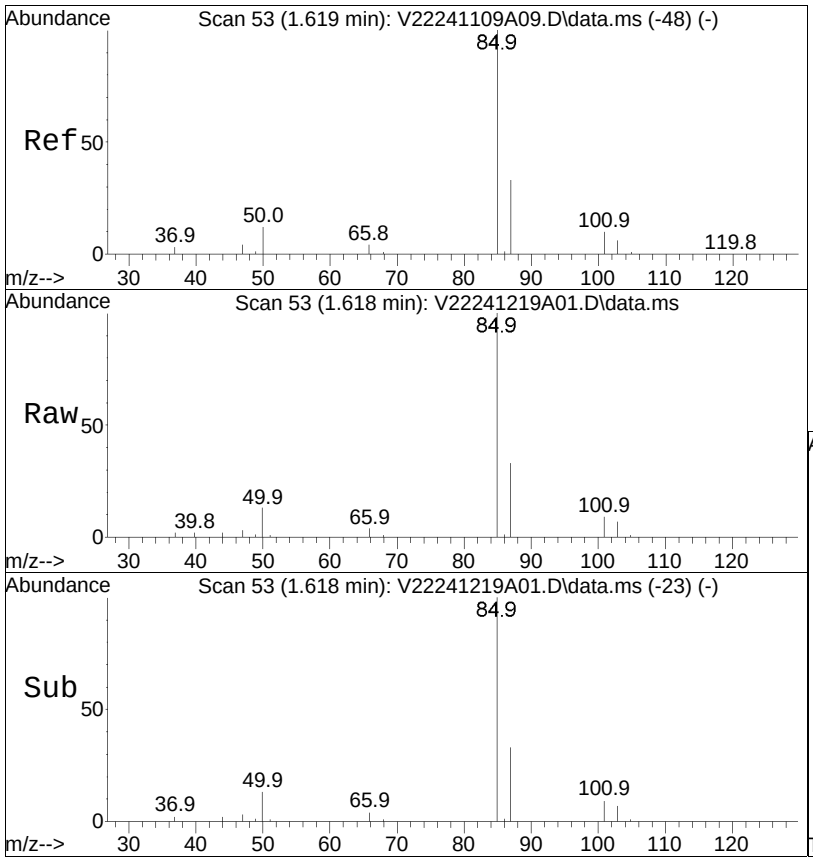
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241219A\
Data File : V22241219A01.D
Acq On : 19 Dec 2024 07:38 am
Operator : VOA122:PID
Sample : WG2011630-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2011630,ICAL21691 (Sig #1); WG,ICAL21691 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 08:05:13 2024
Quant Method : K:\VOA122\2024\241219A\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-IM-2CEVE - Megamix plus Diox-Iodomethane

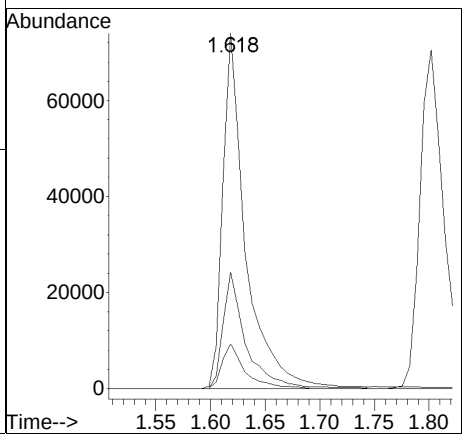


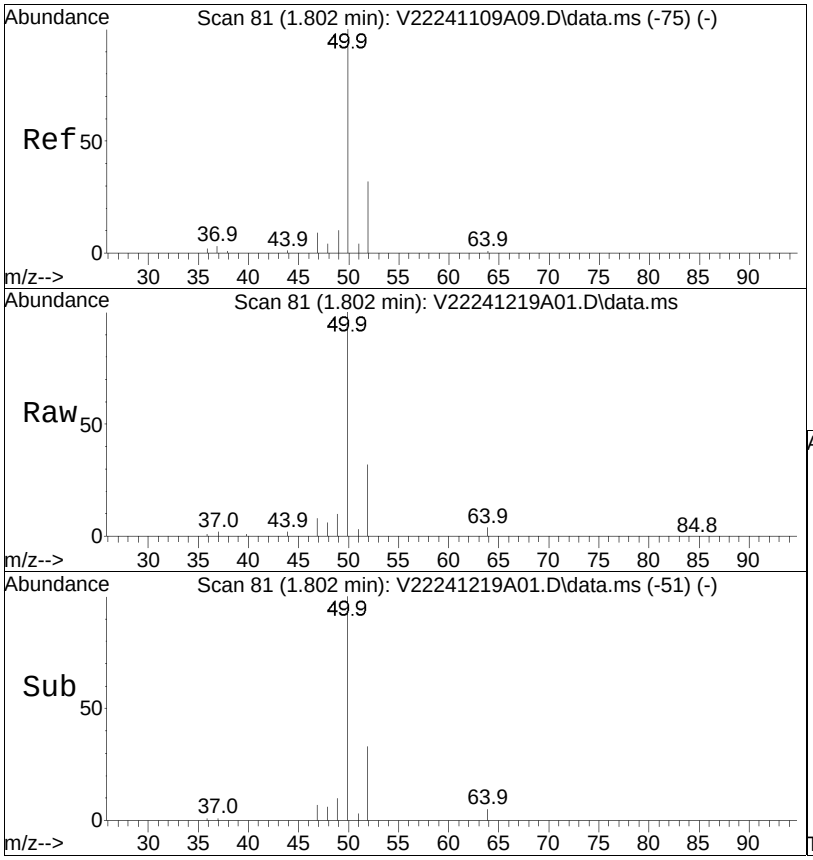


#2
Dichlorodifluoromethane
Concen: 10.32 ug/L
RT: 1.618 min Scan# 53
Delta R.T. -0.000 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion: 85 Resp: 108029

Ion	Ratio	Lower	Upper
85	100		
87	32.4	20.7	42.9
50	12.3	6.8	14.2

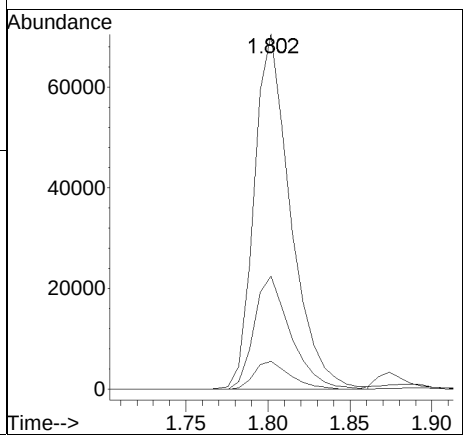


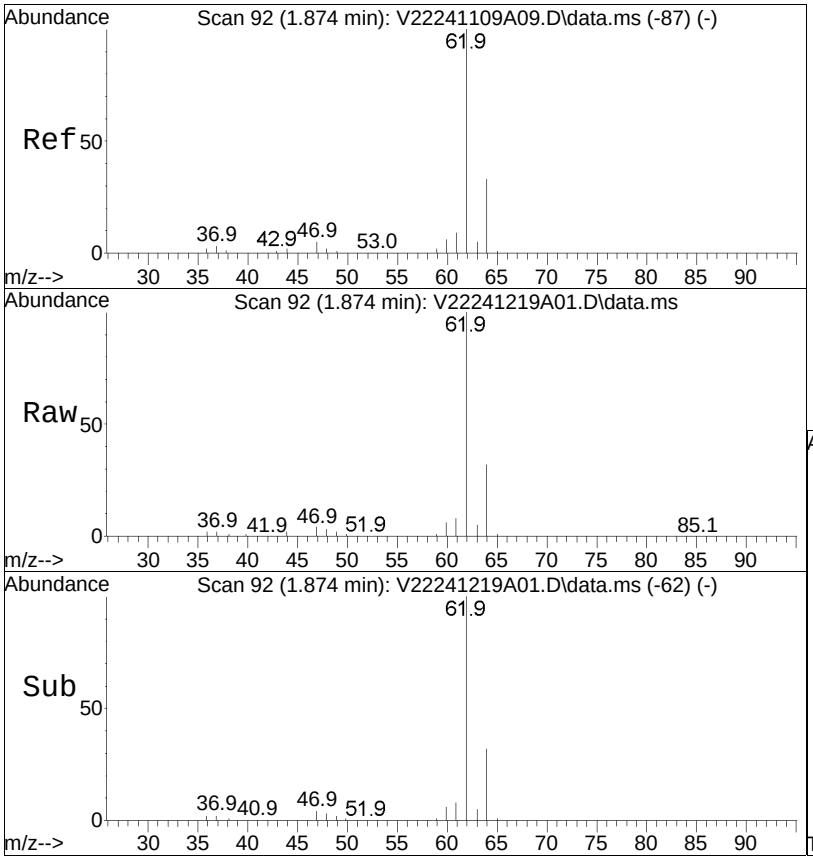


#3
Chloromethane
Concen: 12.19 ug/L
RT: 1.802 min Scan# 81
Delta R.T. -0.000 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion: 50 Resp: 109237

Ion	Ratio	Lower	Upper
50	100		
52	32.0	12.8	52.8
47	7.9	0.0	30.0

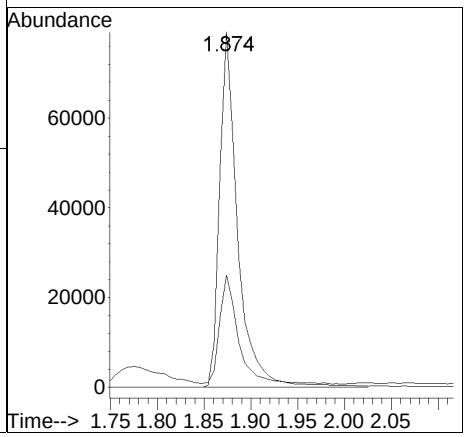


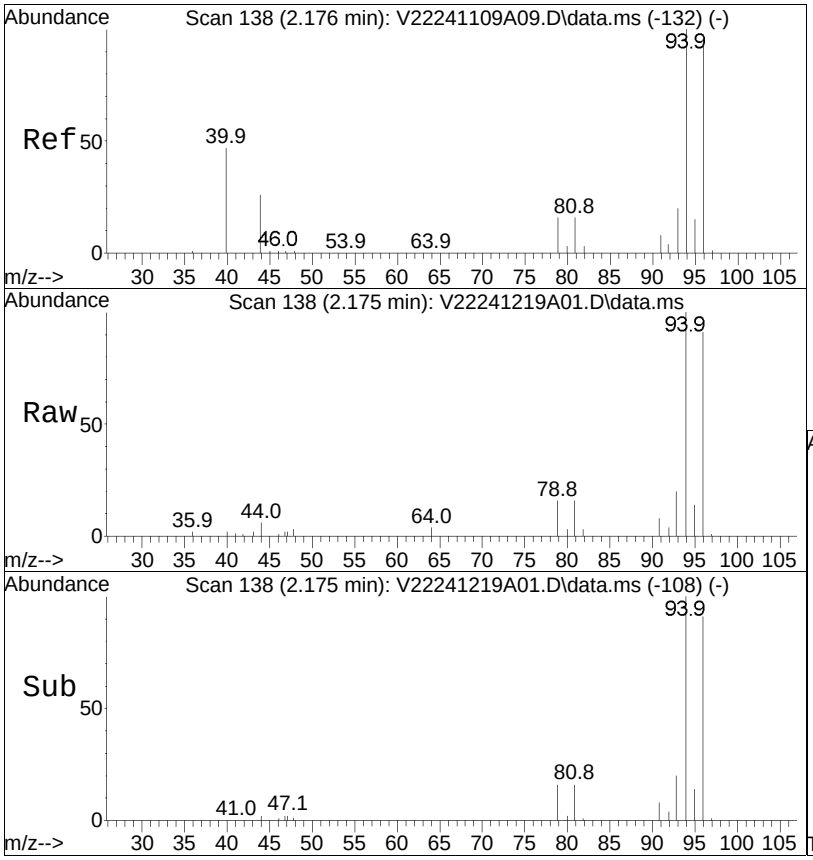


#4
Vinyl chloride
Concen: 8.99 ug/L
RT: 1.874 min Scan# 92
Delta R.T. -0.000 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion: 62 Resp: 107350

Ion	Ratio	Lower	Upper
62	100		
64	33.1	12.0	52.0

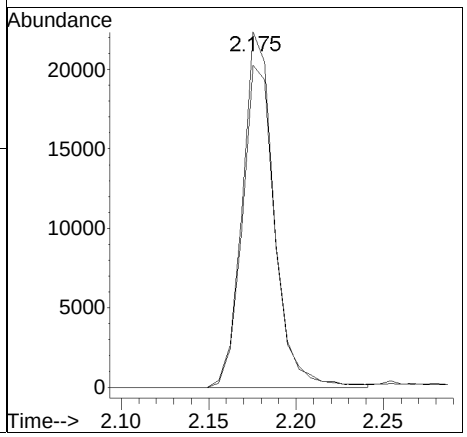


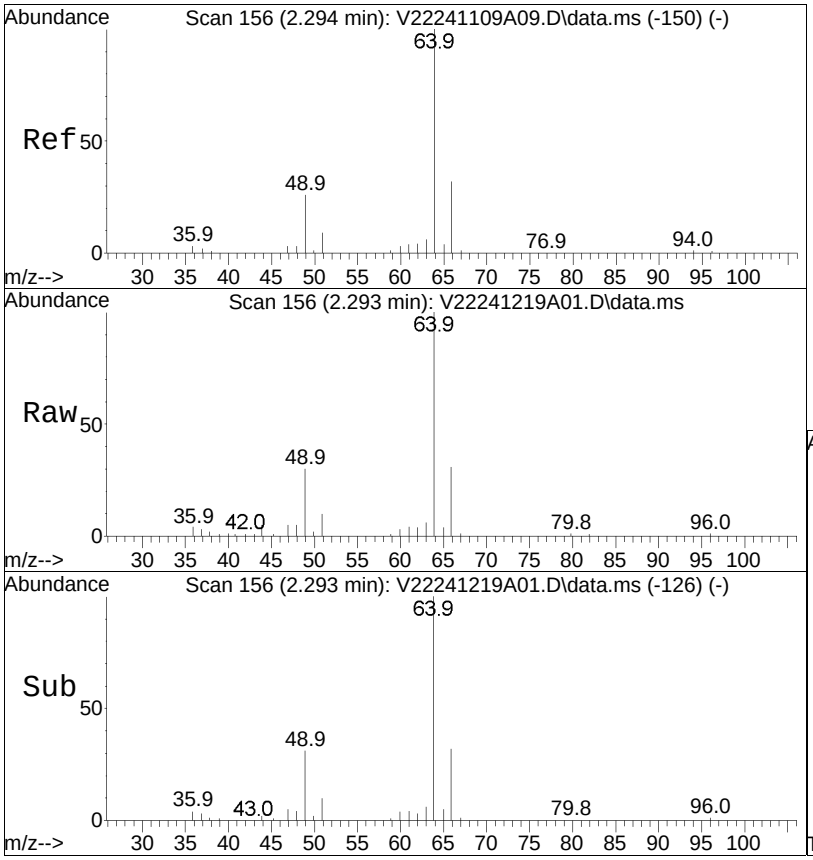


#5
Bromomethane
Concen: 3.27 ug/L
RT: 2.175 min Scan# 138
Delta R.T. -0.000 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion: 94 Resp: 28262

Ion	Ratio	Lower	Upper
94	100		
96	92.7	72.8	112.8

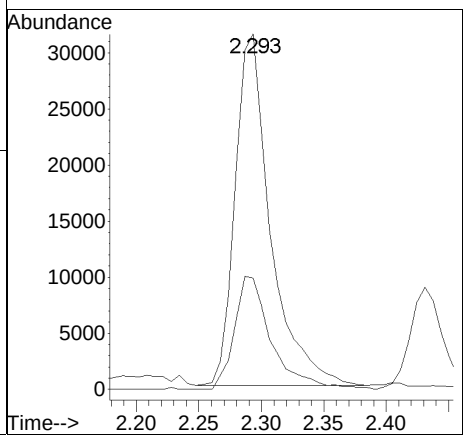


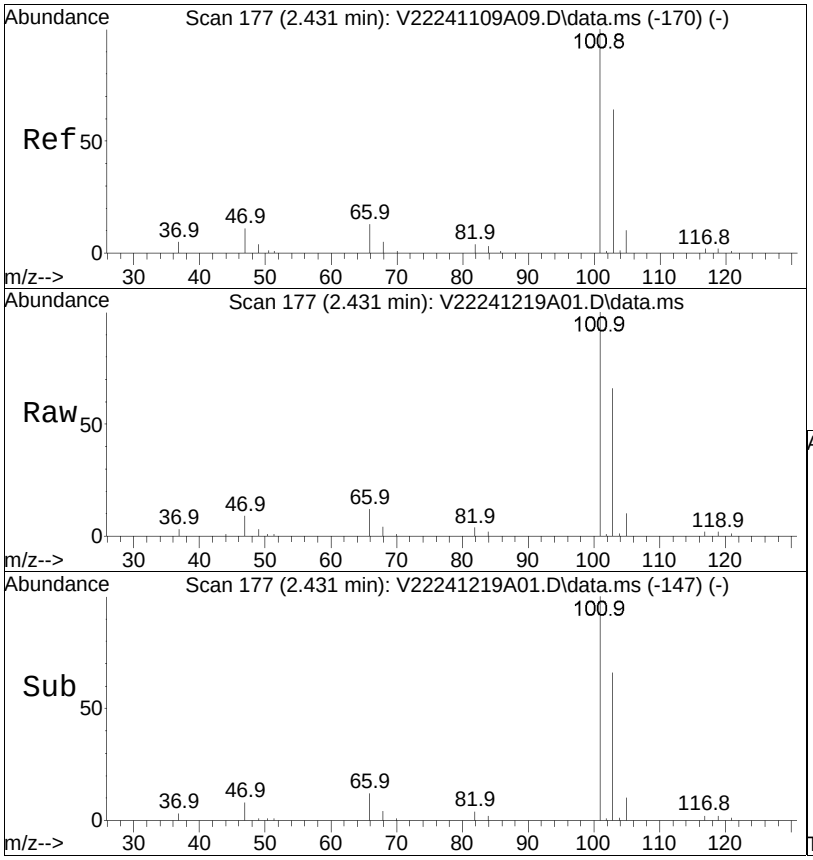


#6
Chloroethane
Concen: 7.52 ug/L
RT: 2.293 min Scan# 156
Delta R.T. -0.000 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion: 64 Resp: 61572

Ion	Ratio	Lower	Upper
64	100		
66	33.9	12.2	52.2

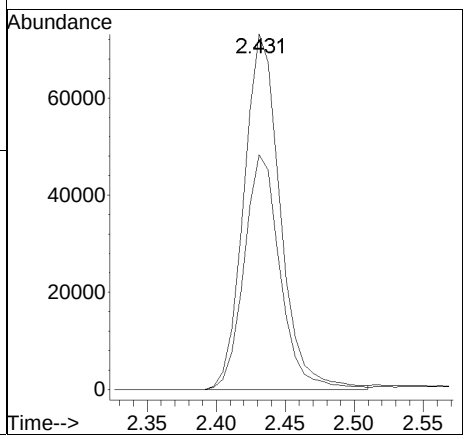


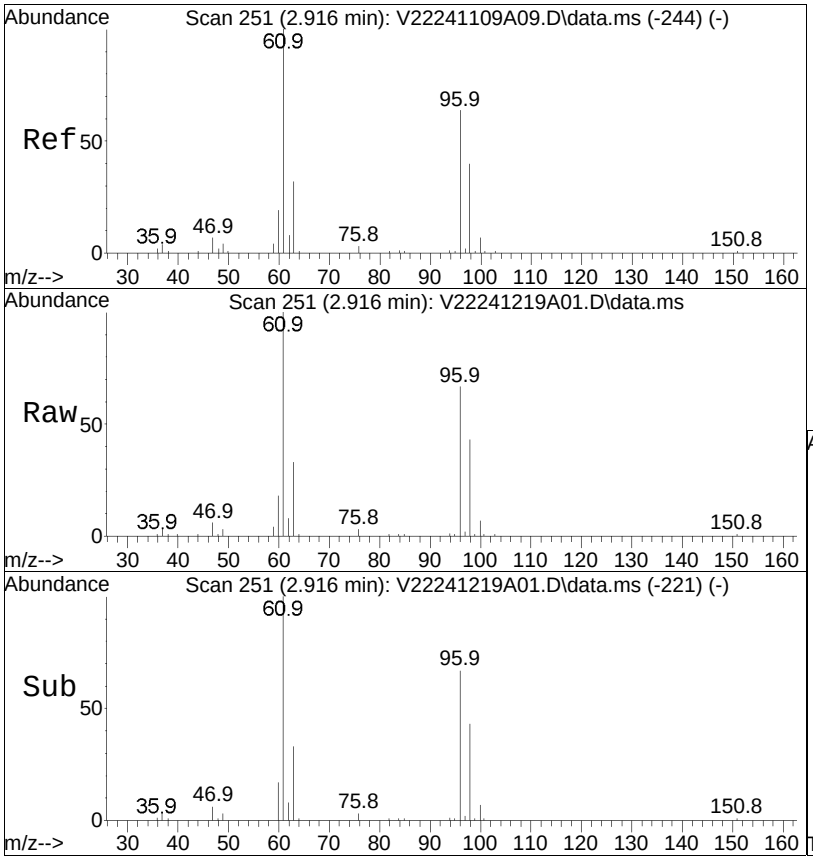


#7
Trichlorofluoromethane
Concen: 9.82 ug/L
RT: 2.431 min Scan# 177
Delta R.T. -0.000 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion:101 Resp: 134304

Ion	Ratio	Lower	Upper
101	100		
103	65.2	51.6	77.4

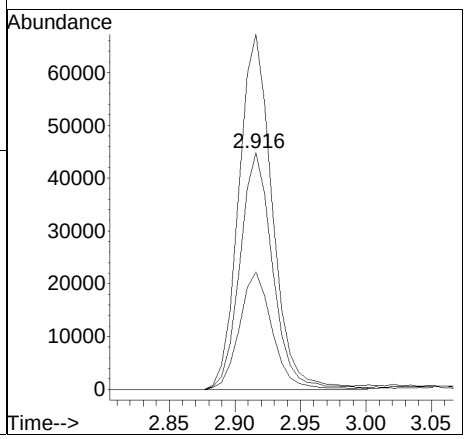


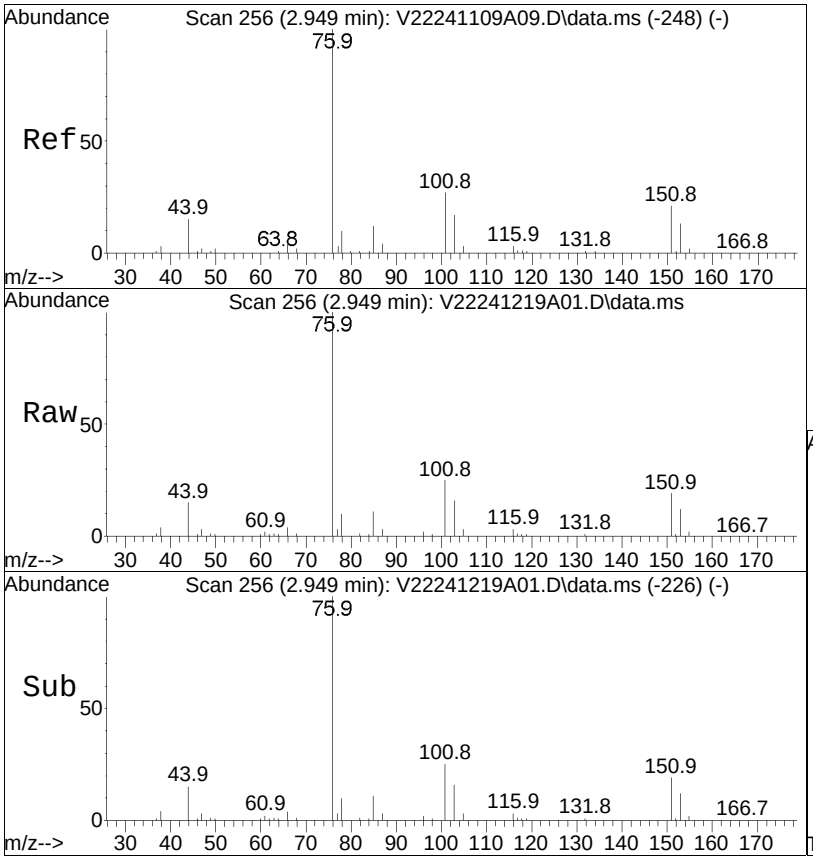


#10
1,1-Dichloroethene
Concen: 10.83 ug/L
RT: 2.916 min Scan# 251
Delta R.T. -0.000 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion: 96 Resp: 78086

Ion	Ratio	Lower	Upper
96	100		
61	152.8	117.0	175.4
63	49.7	37.8	56.6

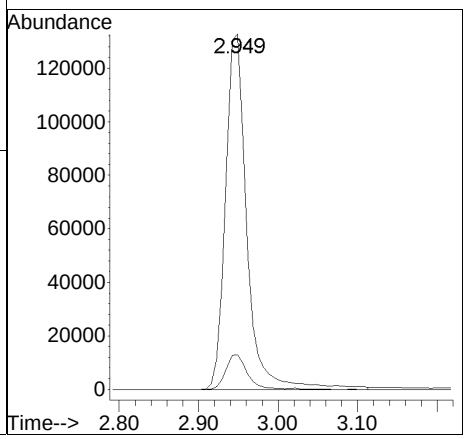


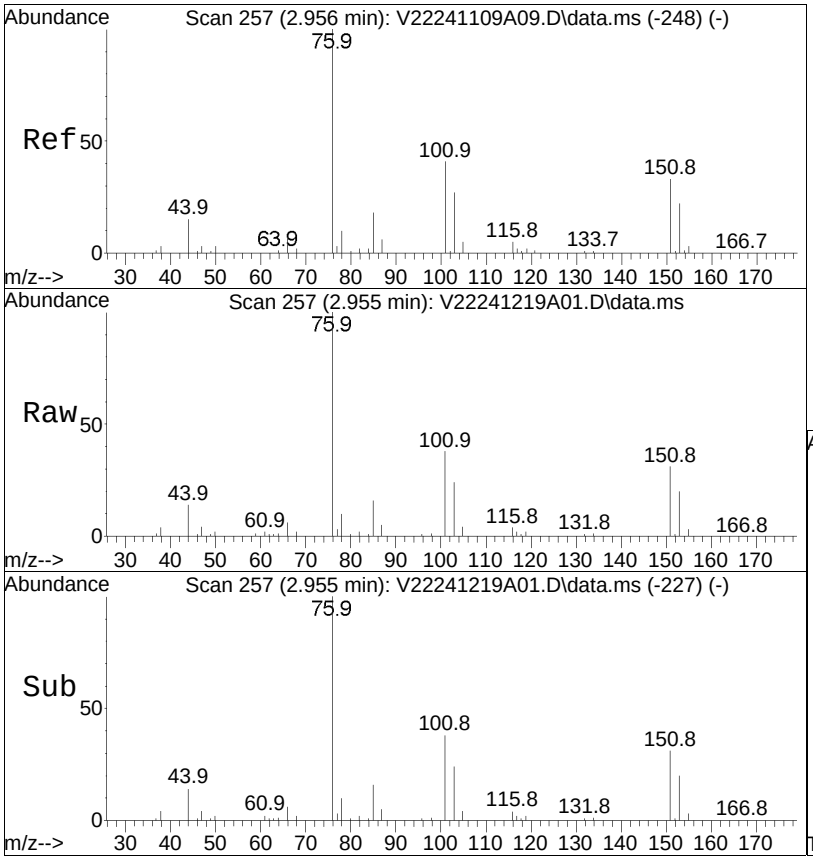


#11
Carbon disulfide
Concen: 11.38 ug/L
RT: 2.949 min Scan# 256
Delta R.T. -0.000 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion: 76 Resp: 249560

Ion	Ratio	Lower	Upper
76	100		
78	9.7	6.4	13.4

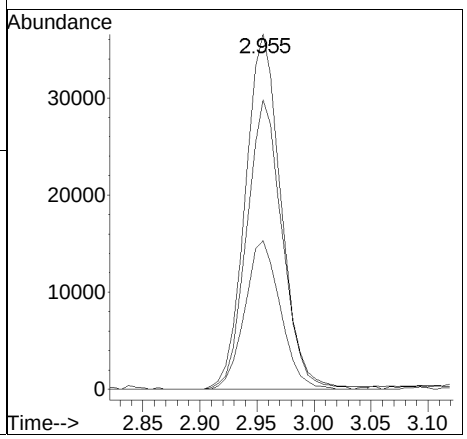


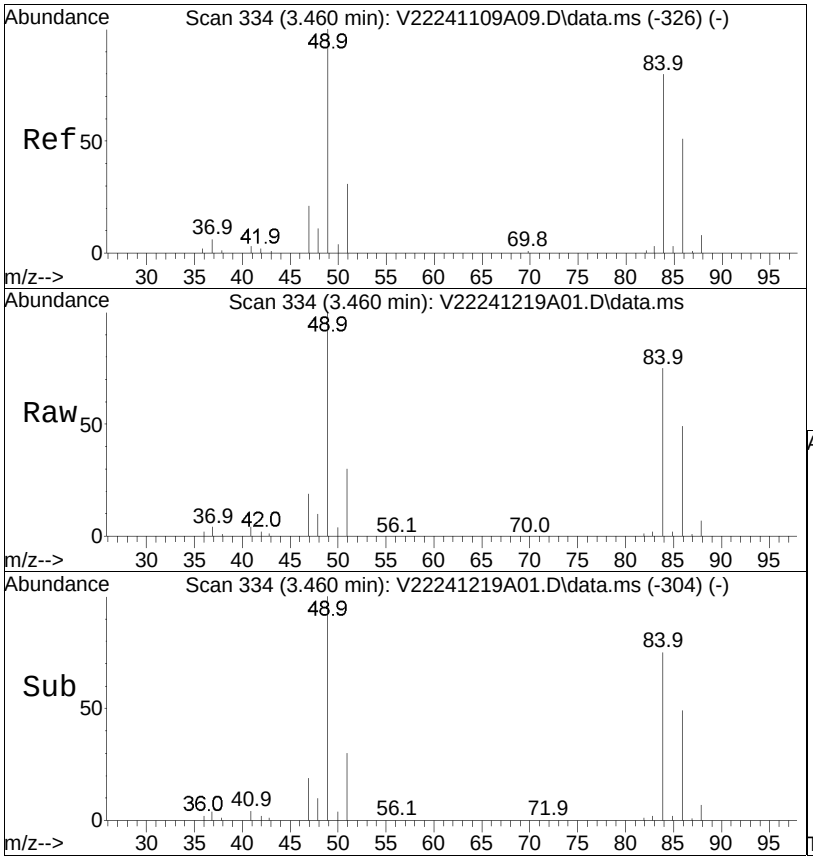


#12
Freon-113
Concen: 10.56 ug/L
RT: 2.955 min Scan# 257
Delta R.T. -0.000 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion:101 Resp: 80127

Ion	Ratio	Lower	Upper
101	100		
151	80.8	68.5	102.7
85	41.6	33.1	49.7

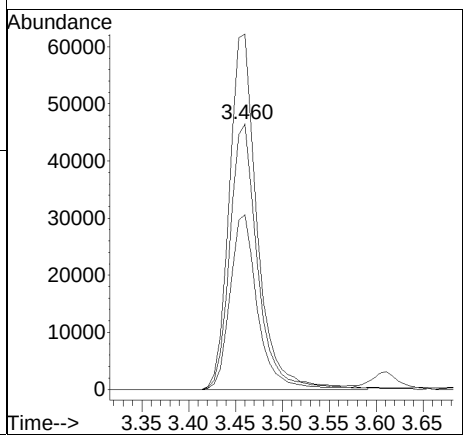


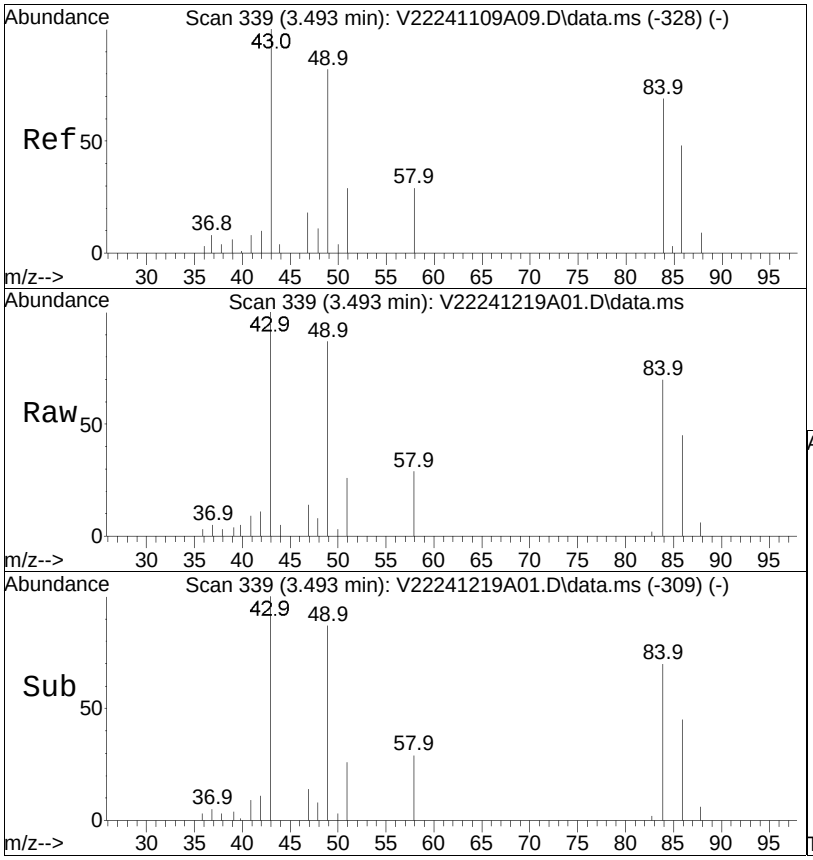


#15
Methylene chloride
Concen: 11.29 ug/L
RT: 3.460 min Scan# 334
Delta R.T. -0.000 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion: 84 Resp: 95699

Ion	Ratio	Lower	Upper
84	100		
86	66.1	41.5	86.3
49	134.2	68.8	143.0

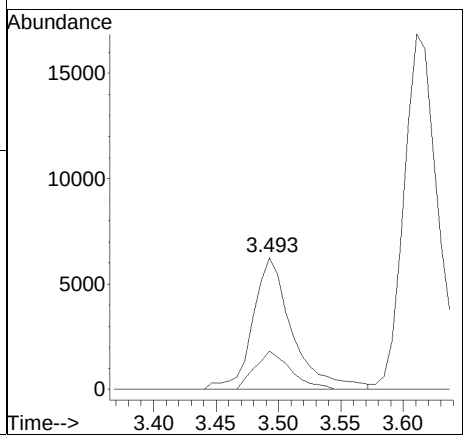


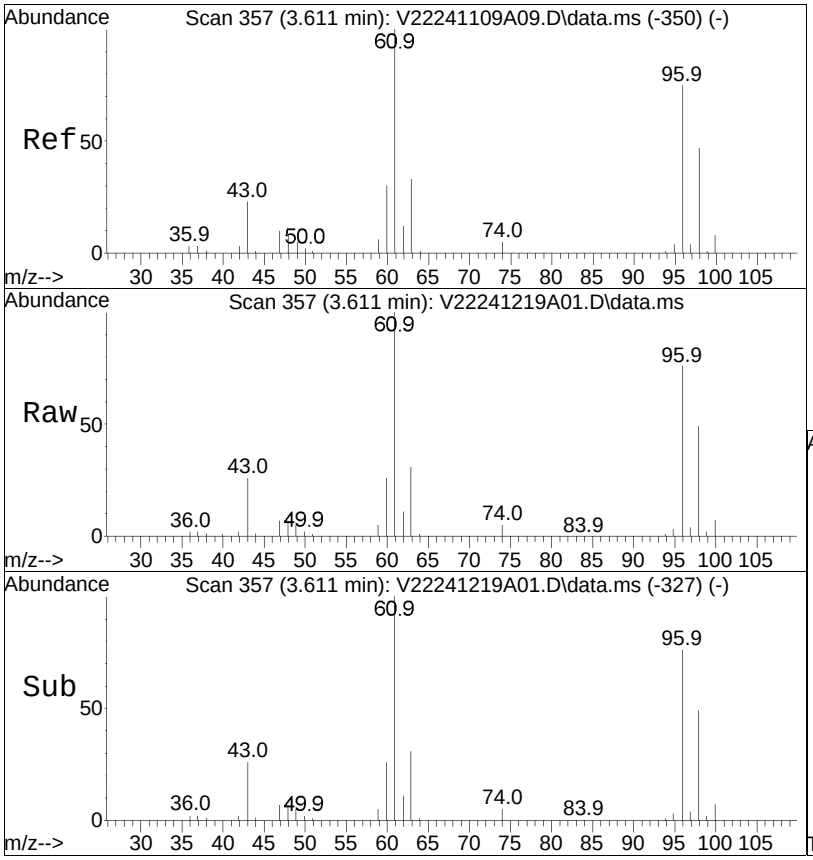


#17
Acetone
Concen: 11.32 ug/L
RT: 3.493 min Scan# 339
Delta R.T. -0.000 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion: 43 Resp: 13818

Ion	Ratio	Lower	Upper
43	100		
58	26.4	23.1	34.7

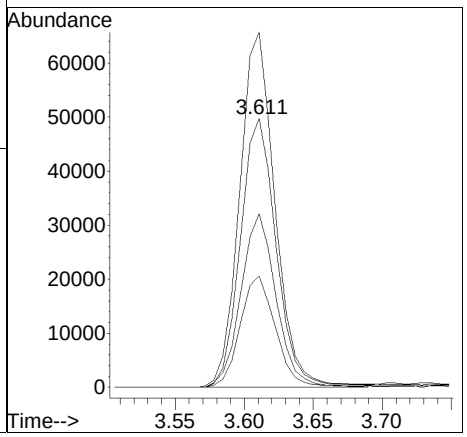


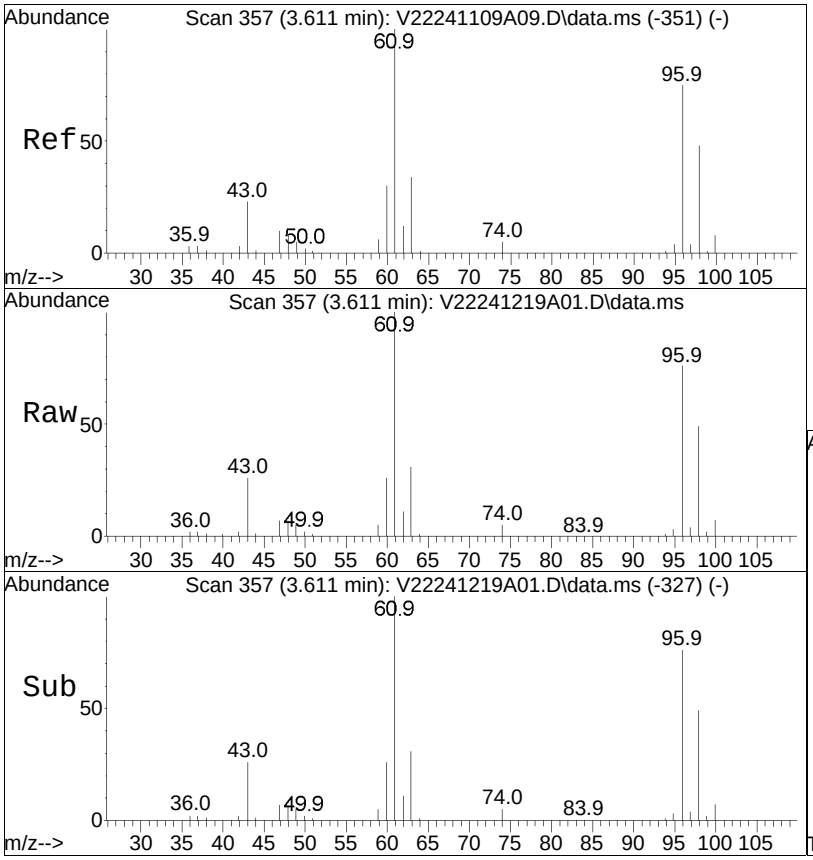


#18
trans-1,2-Dichloroethene
Concen: 11.36 ug/L
RT: 3.611 min Scan# 357
Delta R.T. -0.000 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion: 96 Resp: 89972

Ion	Ratio	Lower	Upper
96	100		
61	130.9	81.6	169.6
98	63.2	41.8	86.8
63	41.1	26.3	54.7

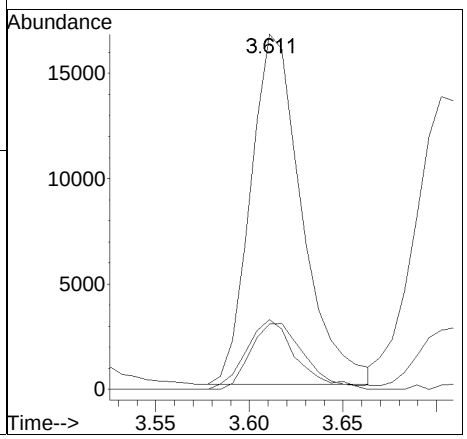


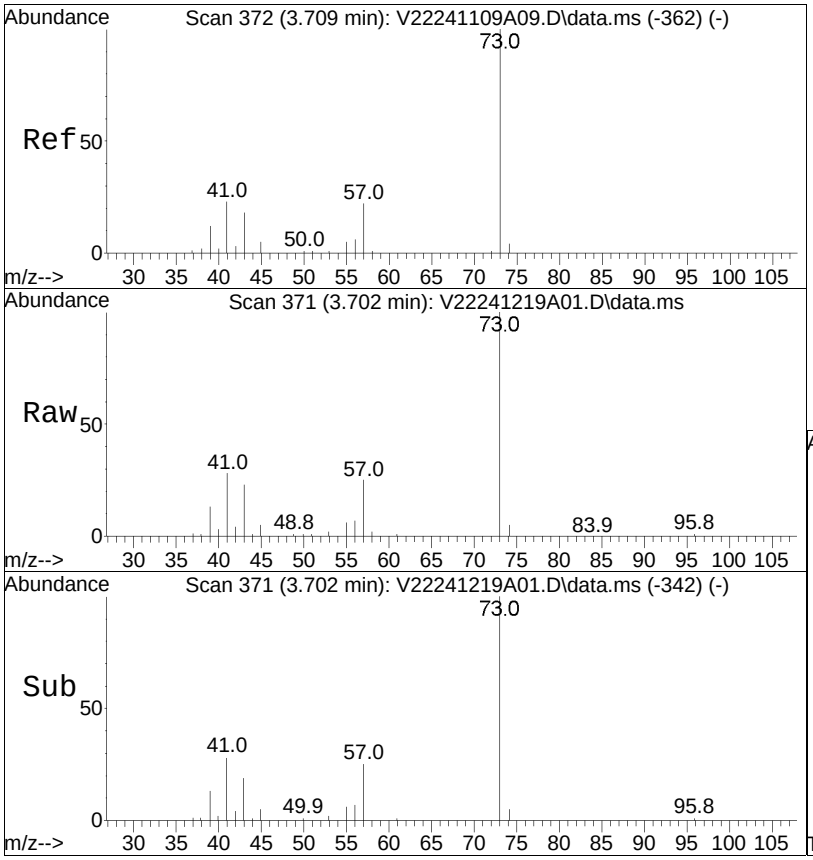


#19
Methyl acetate
Concen: 10.67 ug/L
RT: 3.611 min Scan# 357
Delta R.T. -0.000 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion: 43 Resp: 31651

Ion	Ratio	Lower	Upper
43	100		
74	19.7	21.8	32.6#
59	19.5	18.1	27.1

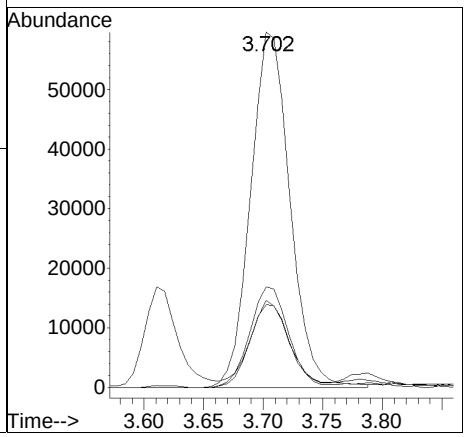


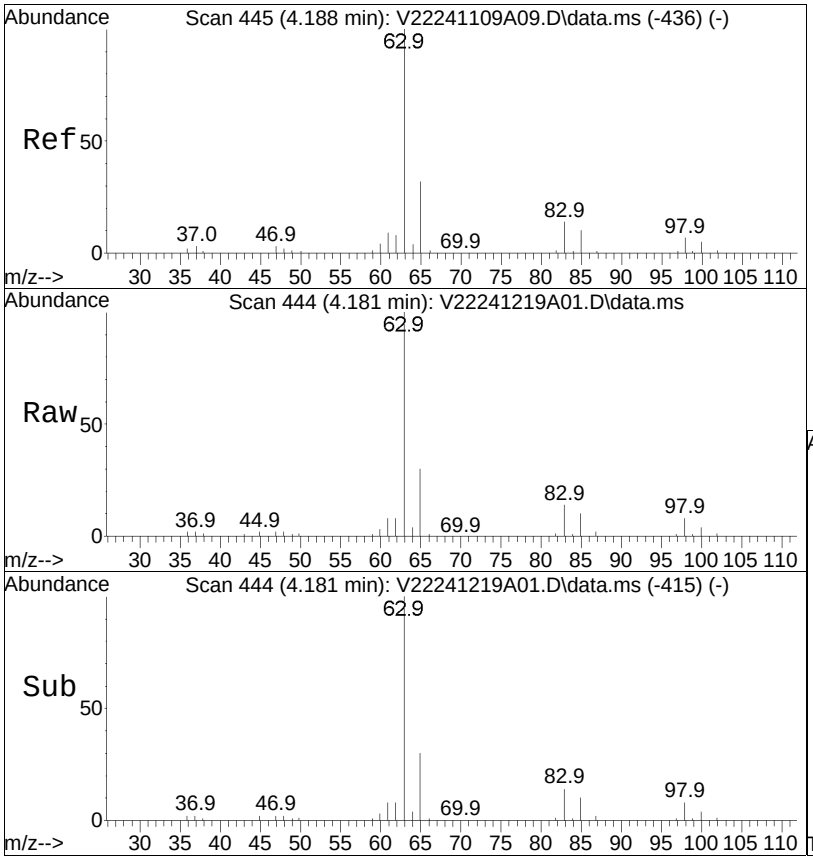


#21
Methyl tert-butyl ether
Concen: 9.86 ug/L
RT: 3.702 min Scan# 371
Delta R.T. -0.007 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion: 73 Resp: 136892

Ion	Ratio	Lower	Upper
73	100		
57	23.8	13.6	28.2
43	23.4	12.7	26.5
41	28.1	11.4	23.8#

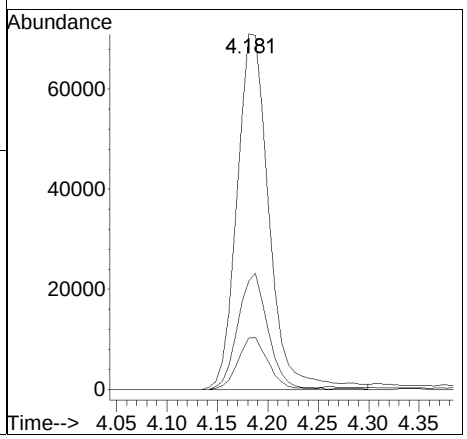


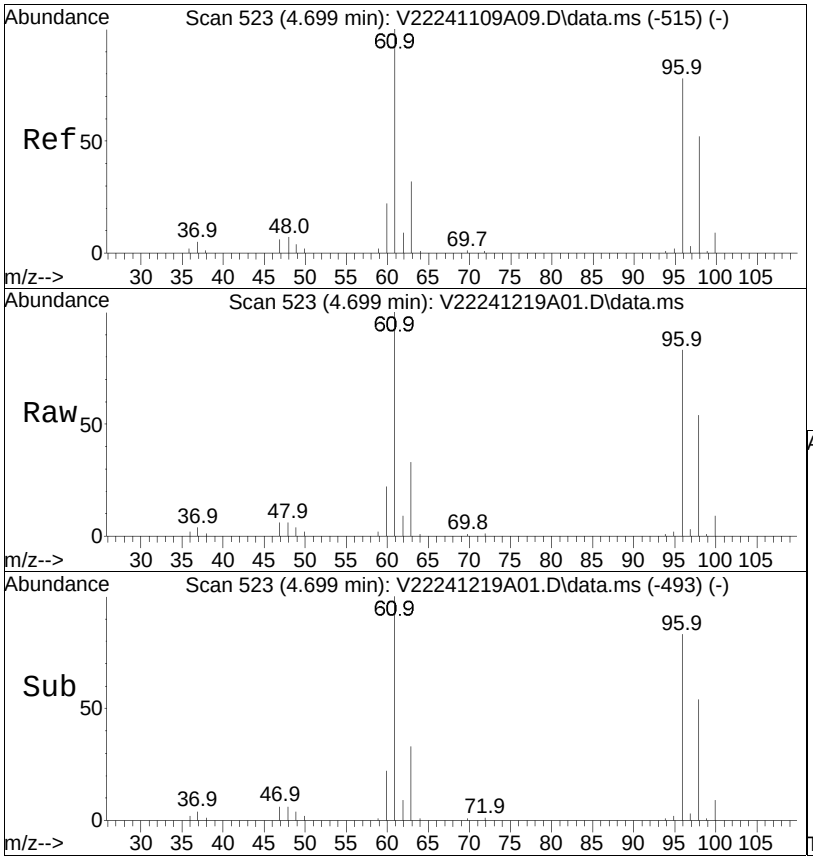


#25
1,1-Dichloroethane
Concen: 10.98 ug/L
RT: 4.181 min Scan# 444
Delta R.T. -0.007 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion: 63 Resp: 157447

Ion	Ratio	Lower	Upper
63	100		
65	30.5	11.9	51.9
83	13.8	0.0	34.2

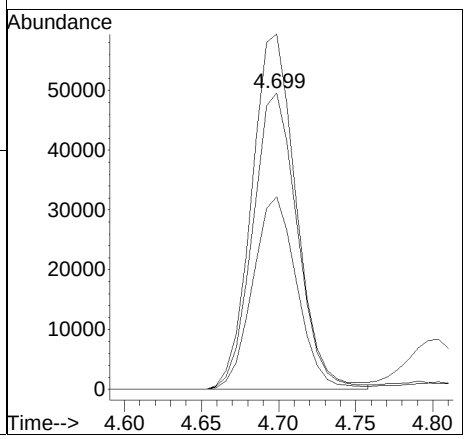


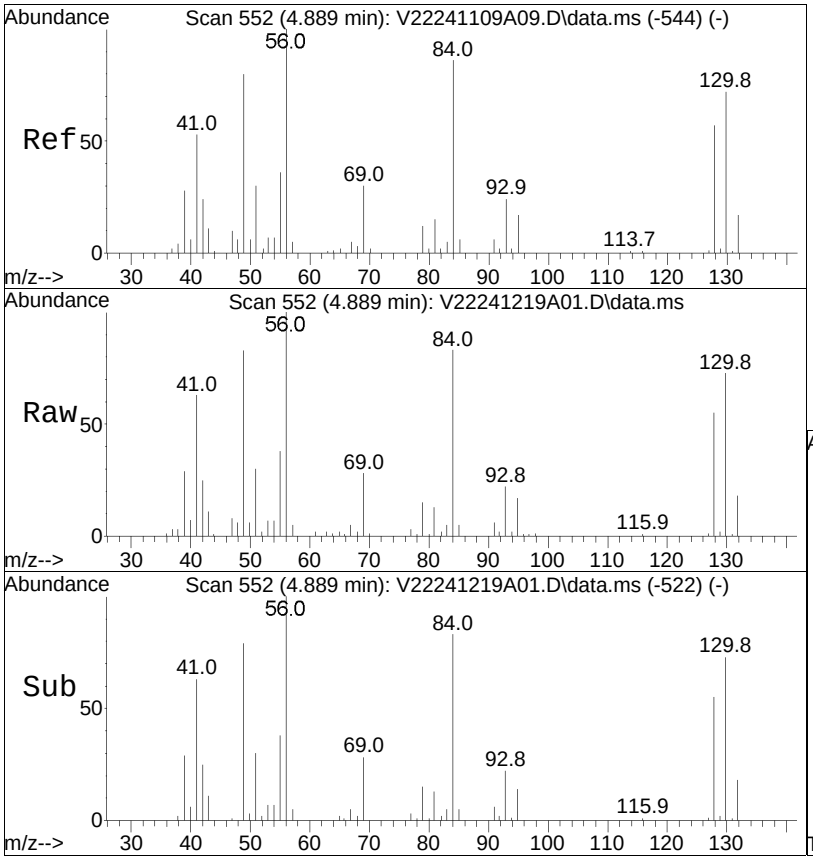


#30
cis-1,2-Dichloroethene
Concen: 11.38 ug/L
RT: 4.699 min Scan# 523
Delta R.T. -0.000 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion: 96 Resp: 99752

Ion	Ratio	Lower	Upper
96	100		
61	119.9	90.3	135.5
98	64.5	50.8	76.2

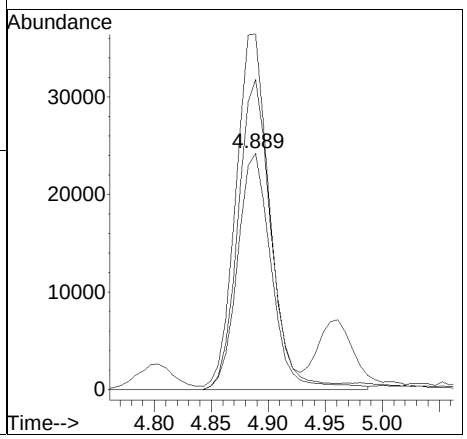


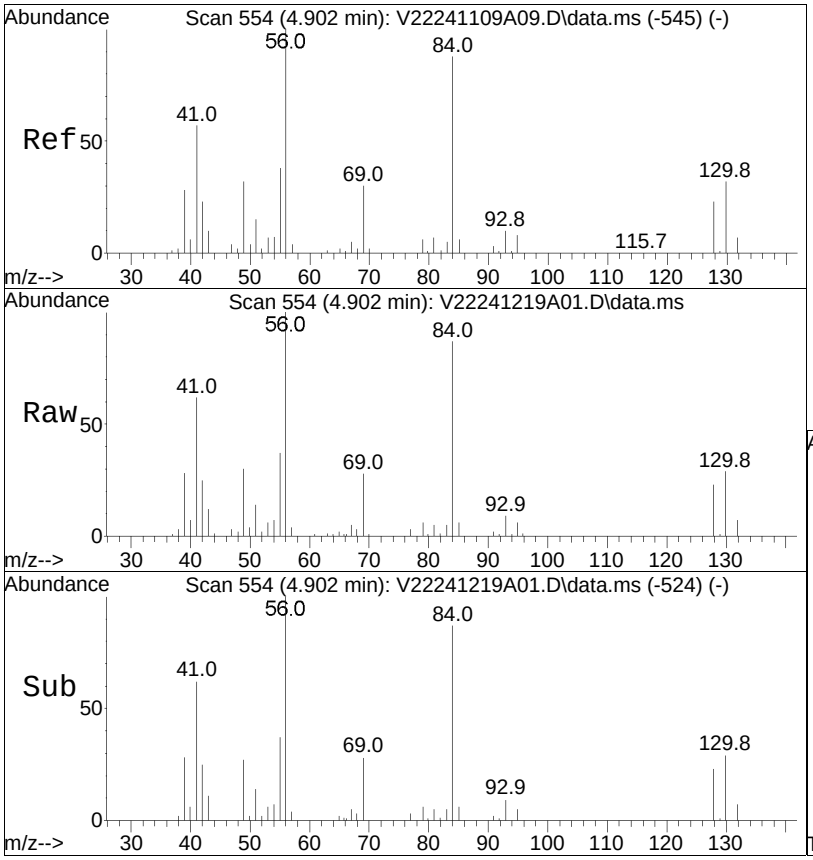


#32
Bromochloromethane
Concen: 11.39 ug/L
RT: 4.889 min Scan# 552
Delta R.T. -0.000 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion:128 Resp: 50185

Ion	Ratio	Lower	Upper
128	100		
49	146.2	104.4	156.6
130	127.9	103.9	155.9

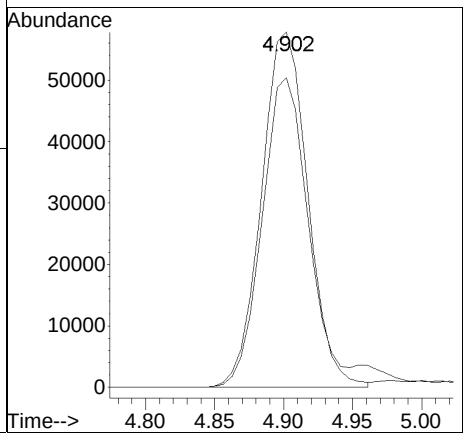


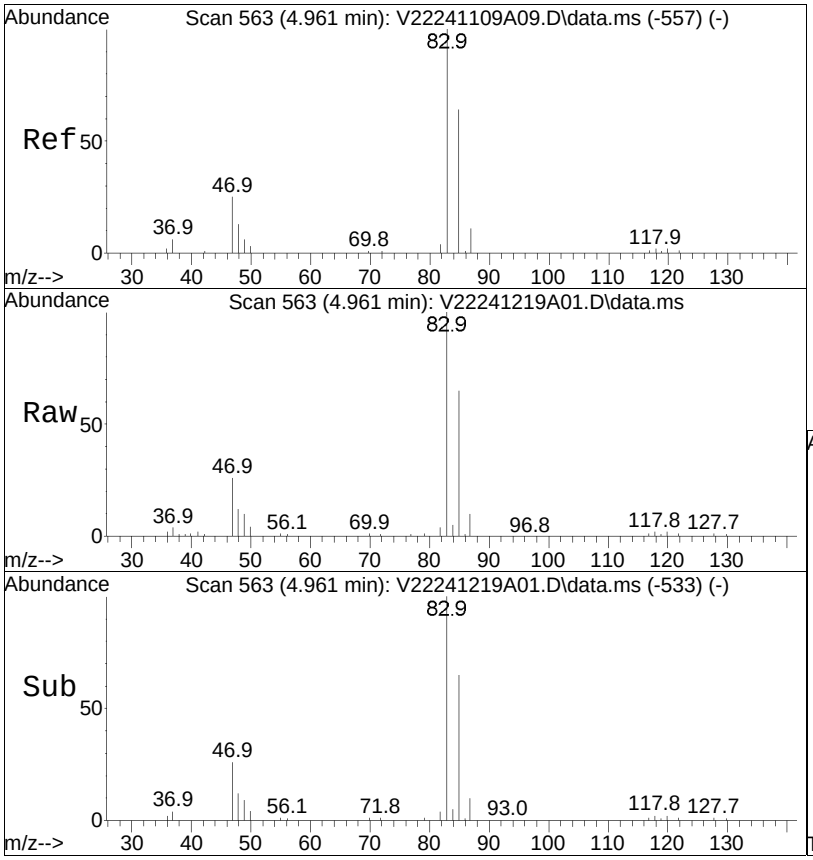


#33
Cyclohexane
Concen: 9.91 ug/L
RT: 4.902 min Scan# 554
Delta R.T. -0.000 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion: 56 Resp: 135313

Ion	Ratio	Lower	Upper
56	100		
84	86.9	66.0	137.2

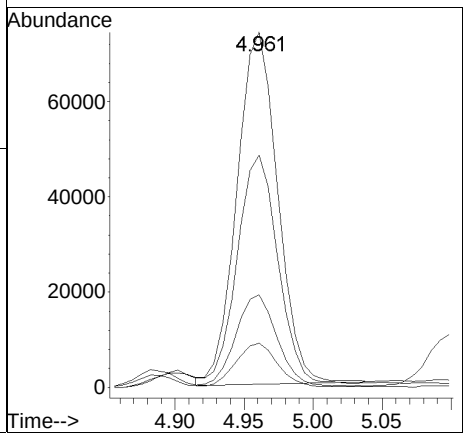


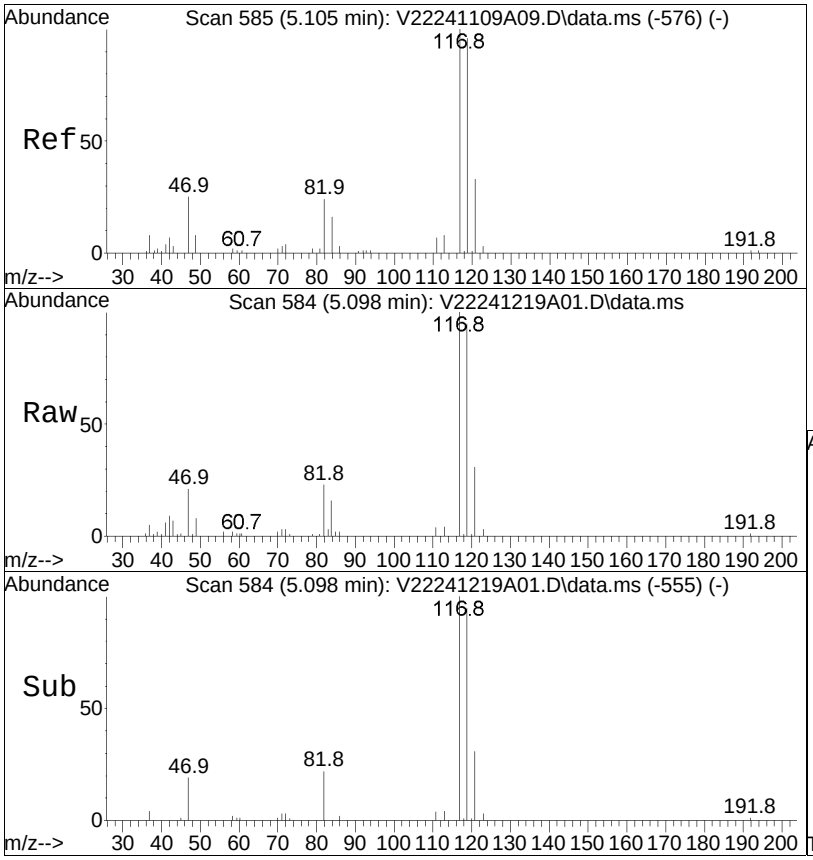


#34
Chloroform
Concen: 10.63 ug/L
RT: 4.961 min Scan# 563
Delta R.T. -0.000 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion: 83 Resp: 152380

Ion	Ratio	Lower	Upper
83	100		
85	65.4	42.4	88.2
47	25.9	14.0	29.0
48	13.0	6.9	14.3

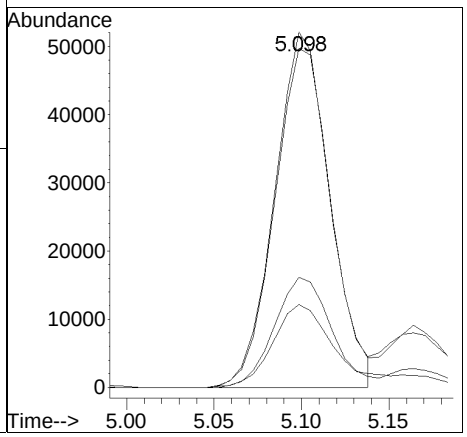


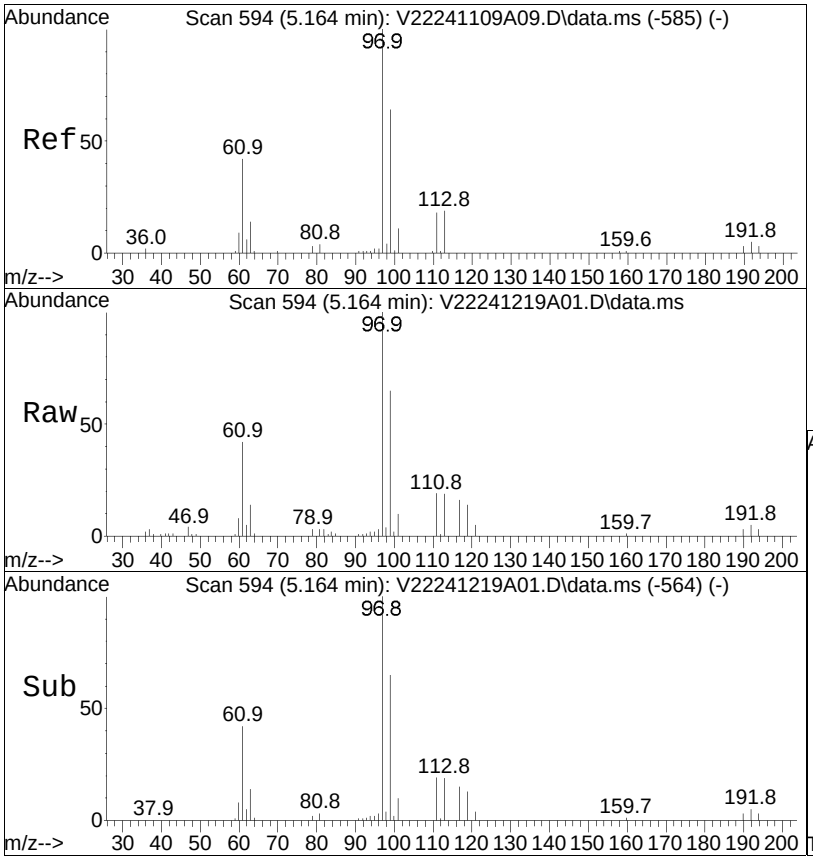


#36
Carbon tetrachloride
Concen: 9.86 ug/L
RT: 5.098 min Scan# 584
Delta R.T. -0.007 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion:117 Resp: 114311

Ion	Ratio	Lower	Upper
117	100		
119	97.6	62.1	129.1
121	32.3	20.3	42.3
82	29.4	15.4	32.0

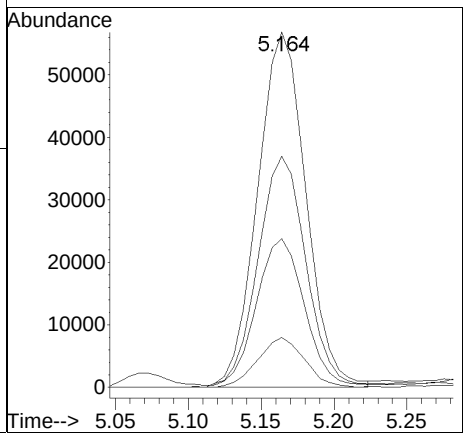


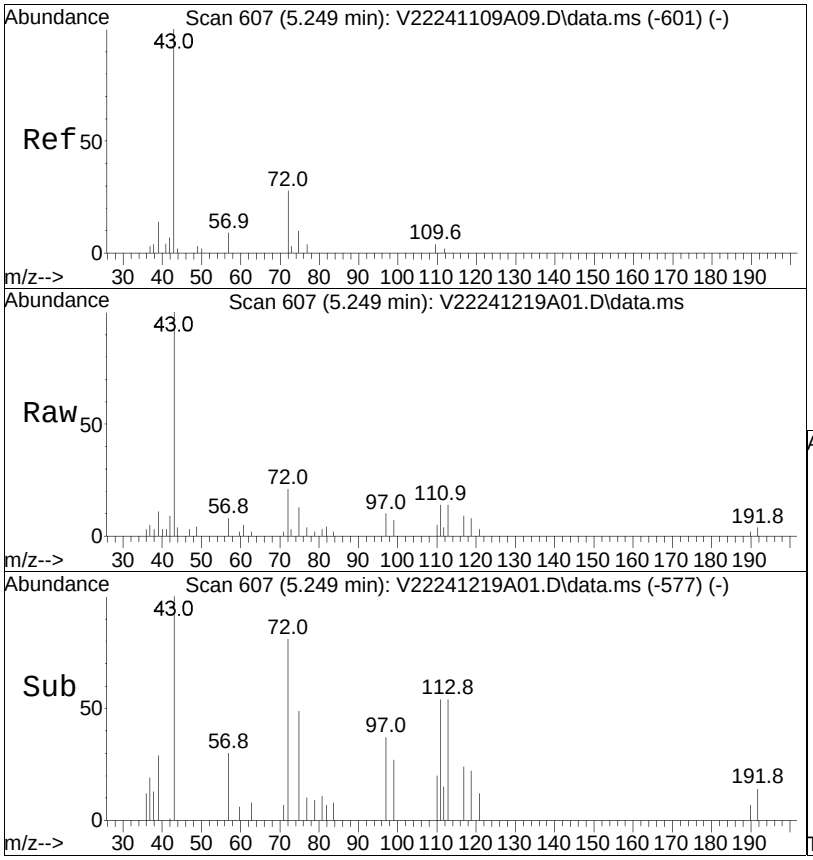


#39
1,1,1-Trichloroethane
Concen: 10.04 ug/L
RT: 5.164 min Scan# 594
Delta R.T. -0.000 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion: 97 Resp: 131254

Ion	Ratio	Lower	Upper
97	100		
99	64.8	42.4	88.0
61	41.1	26.0	54.0
63	13.6	8.3	17.3

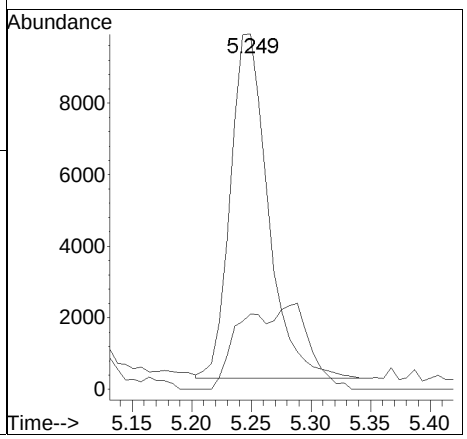


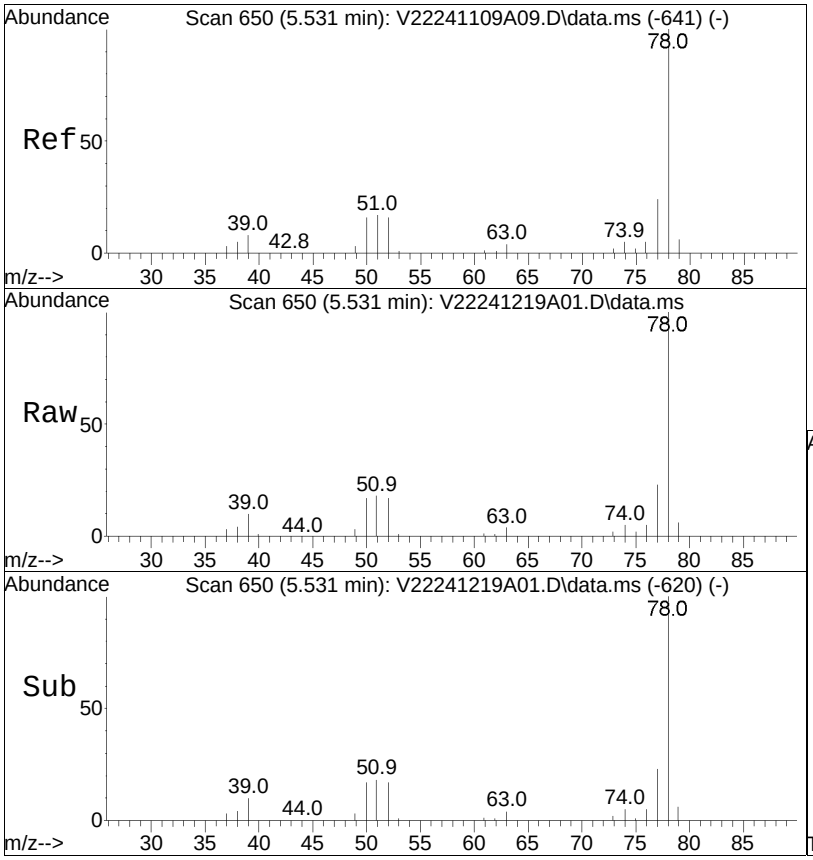


#41
2-Butanone
Concen: 12.26 ug/L
RT: 5.249 min Scan# 607
Delta R.T. -0.000 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion: 43 Resp: 21254

Ion	Ratio	Lower	Upper
43	100		
72	20.3	45.8	68.8#

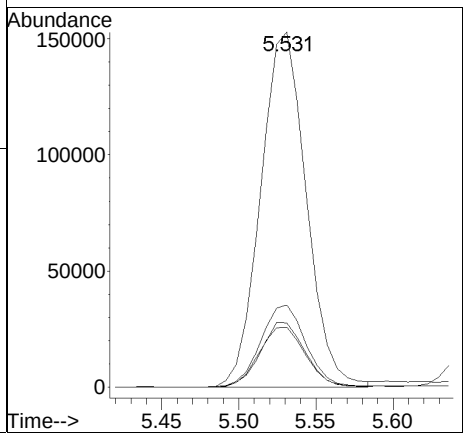


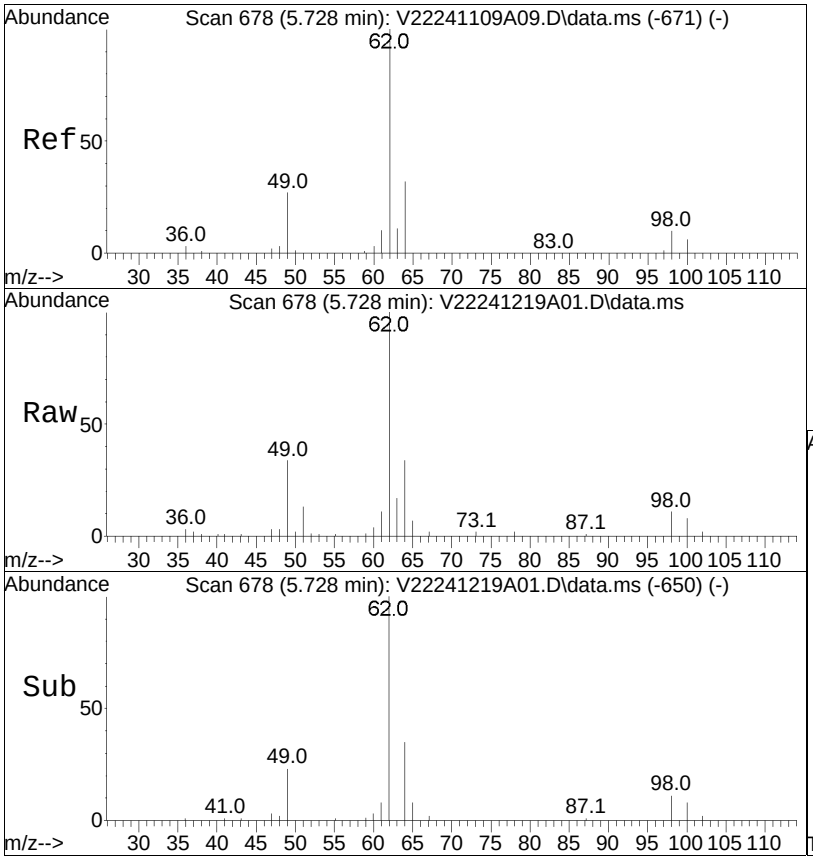


#44
Benzene
Concen: 10.10 ug/L
RT: 5.531 min Scan# 650
Delta R.T. -0.000 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion: 78 Resp: 315134

Ion	Ratio	Lower	Upper
78	100		
77	22.8	15.4	32.0
51	18.3	9.8	20.4
52	17.2	9.2	19.2

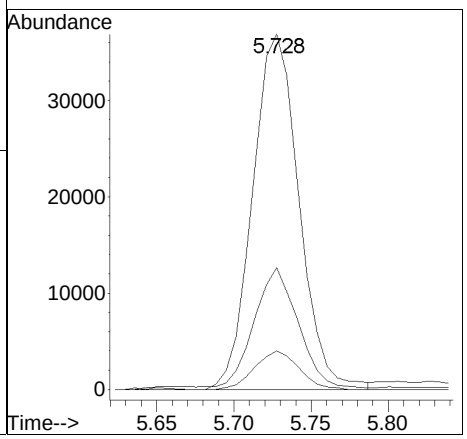


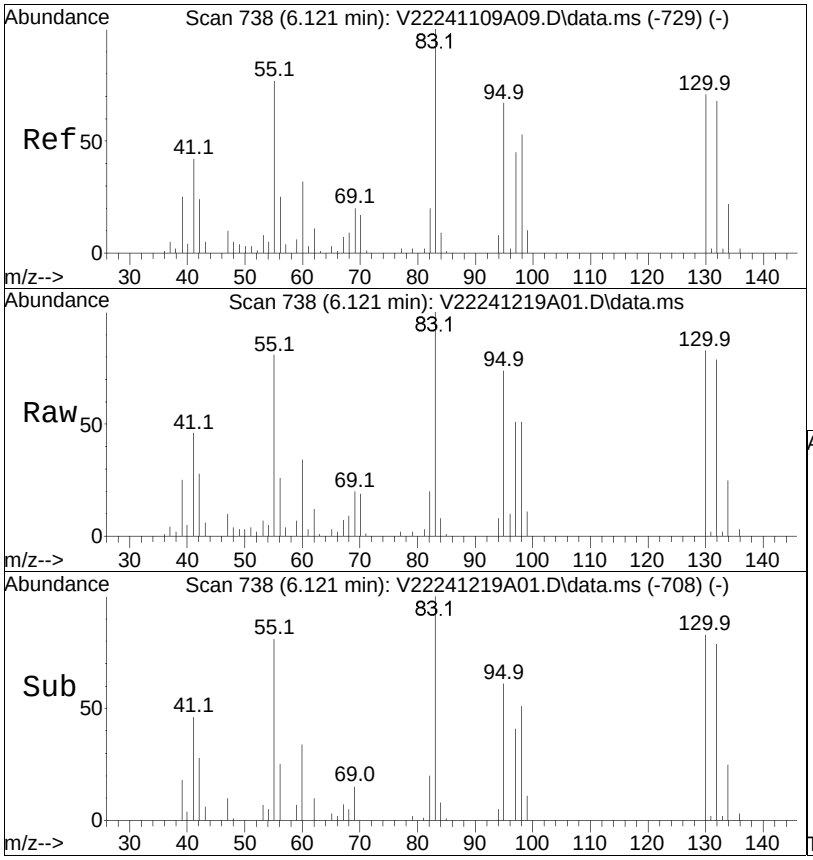


#47
1,2-Dichloroethane
Concen: 10.18 ug/L
RT: 5.728 min Scan# 678
Delta R.T. -0.000 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion: 62 Resp: 77117

Ion	Ratio	Lower	Upper
62	100		
64	32.2	12.3	52.3
98	10.3	0.0	30.3

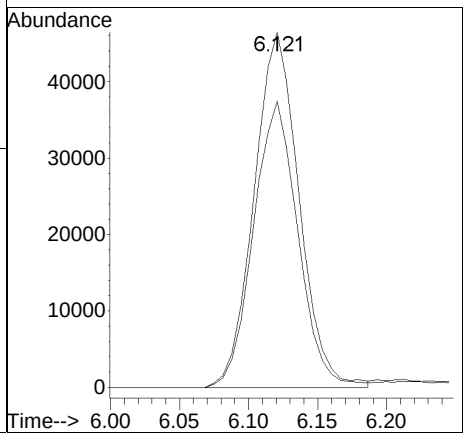


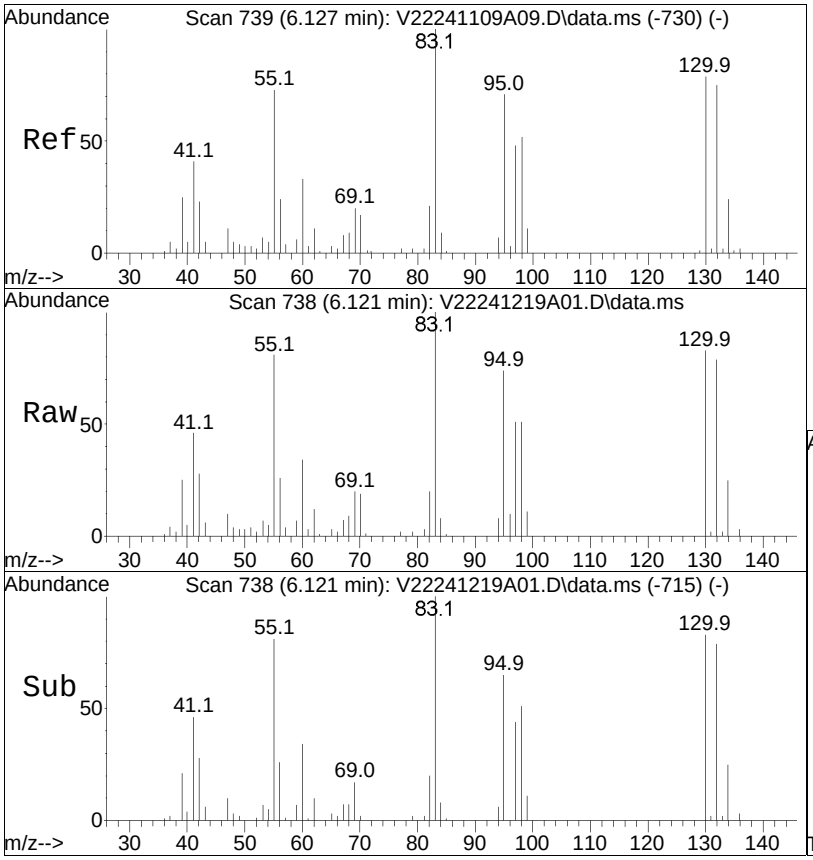


#50
Methyl cyclohexane
Concen: 9.21 ug/L
RT: 6.121 min Scan# 738
Delta R.T. -0.000 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion: 83 Resp: 105219

Ion	Ratio	Lower	Upper
83	100		
55	79.7	55.4	83.2

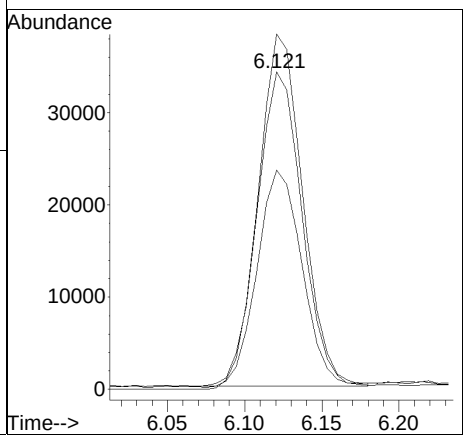


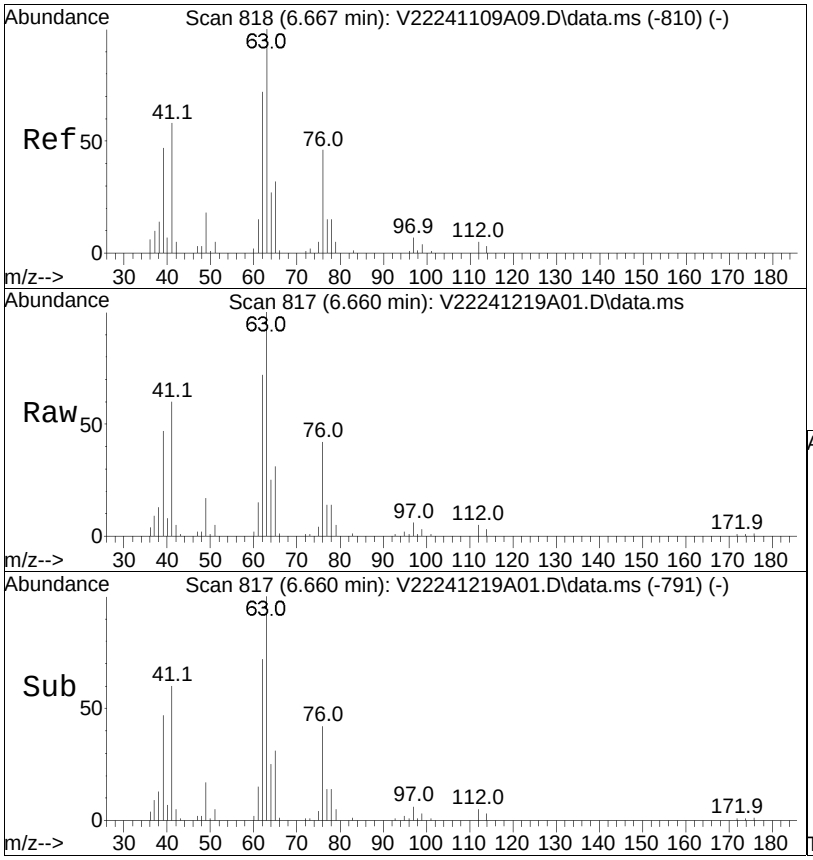


#51
Trichloroethene
Concen: 9.53 ug/L
RT: 6.121 min Scan# 738
Delta R.T. -0.007 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion: 95 Resp: 69196

Ion	Ratio	Lower	Upper
95	100		
97	70.3	55.0	82.4
130	113.8	89.2	133.8

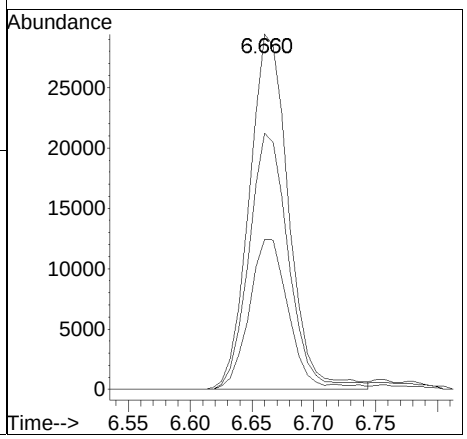


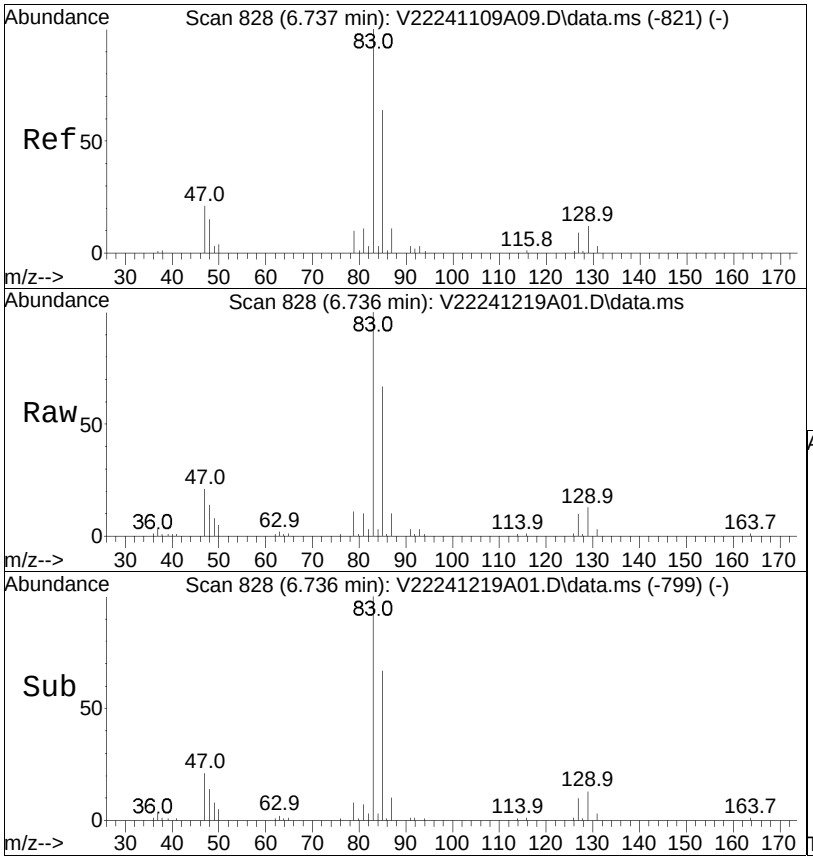


#54
1,2-Dichloropropane
Concen: 10.45 ug/L
RT: 6.660 min Scan# 817
Delta R.T. -0.007 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion: 63 Resp: 65518

Ion	Ratio	Lower	Upper
63	100		
62	72.4	56.9	85.3
76	42.3	35.8	53.8

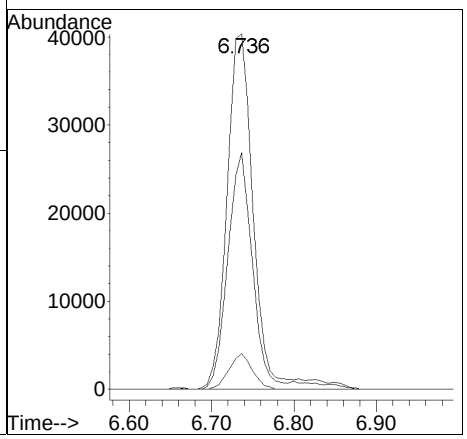


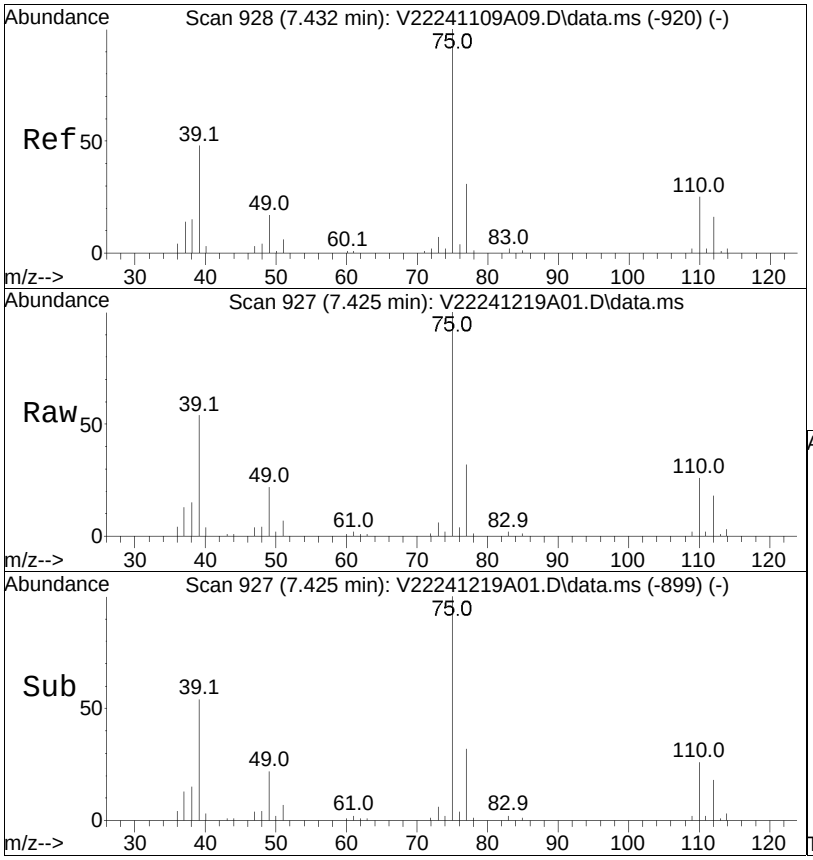


#57
Bromodichloromethane
Concen: 10.48 ug/L
RT: 6.736 min Scan# 828
Delta R.T. -0.000 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion: 83 Resp: 91249

Ion	Ratio	Lower	Upper
83	100		
85	61.2	51.6	77.4
127	8.9	7.4	11.0

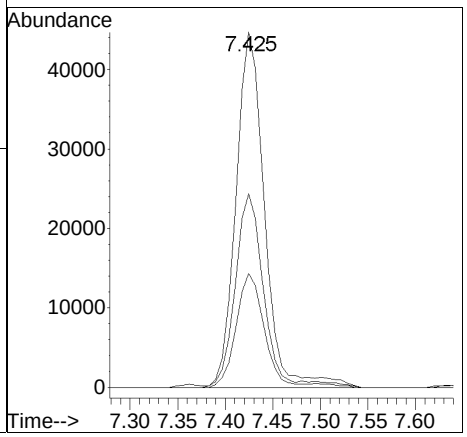


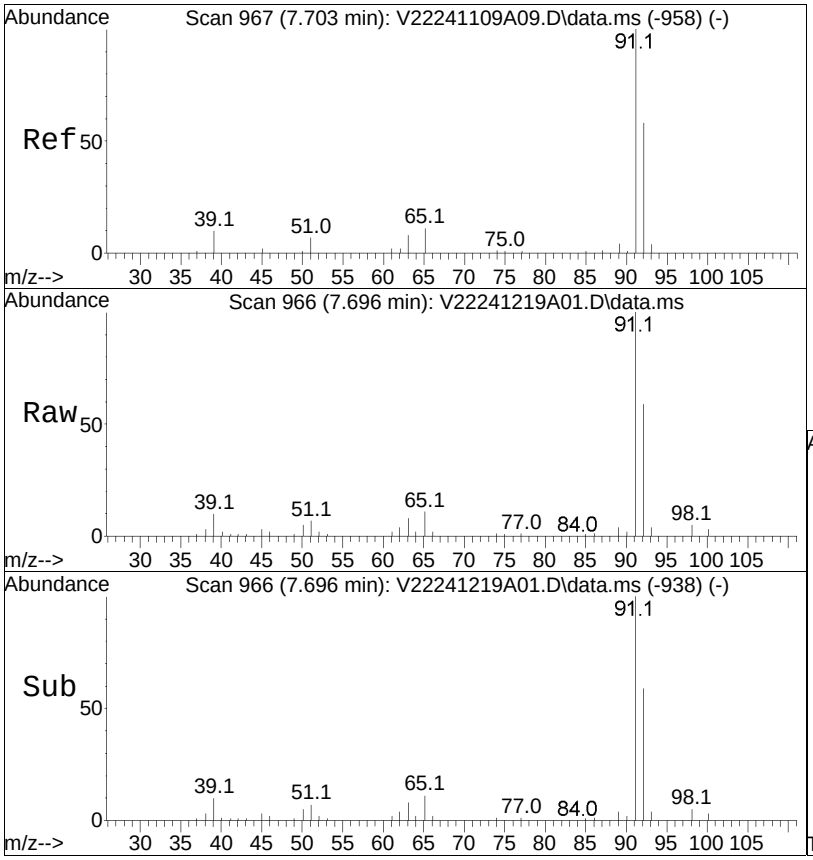


#61
cis-1,3-Dichloropropene
Concen: 10.32 ug/L
RT: 7.425 min Scan# 927
Delta R.T. -0.007 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion: 75 Resp: 93567

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.6	38.4
39	54.4	35.4	53.0#

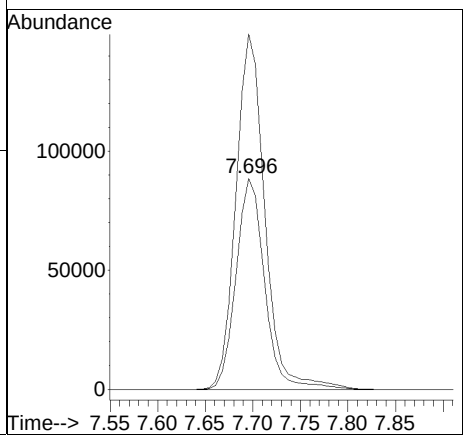


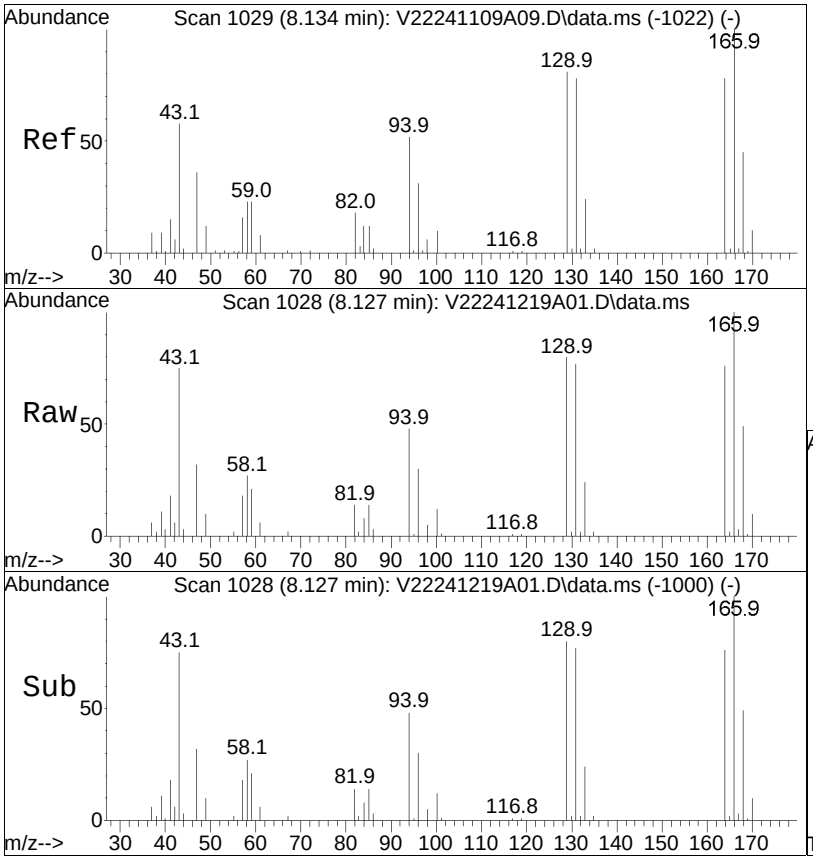


#64
Toluene
Concen: 10.59 ug/L
RT: 7.696 min Scan# 966
Delta R.T. -0.007 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion: 92 Resp: 185909

Ion	Ratio	Lower	Upper
92	100		
91	169.9	137.0	205.6

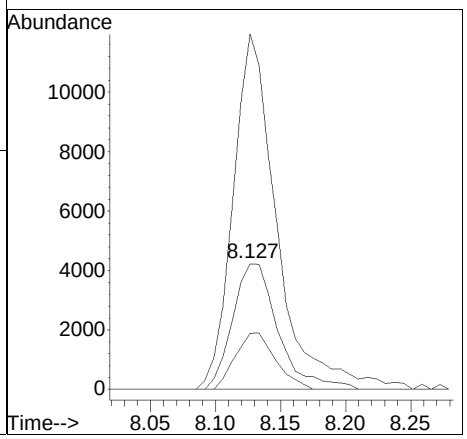


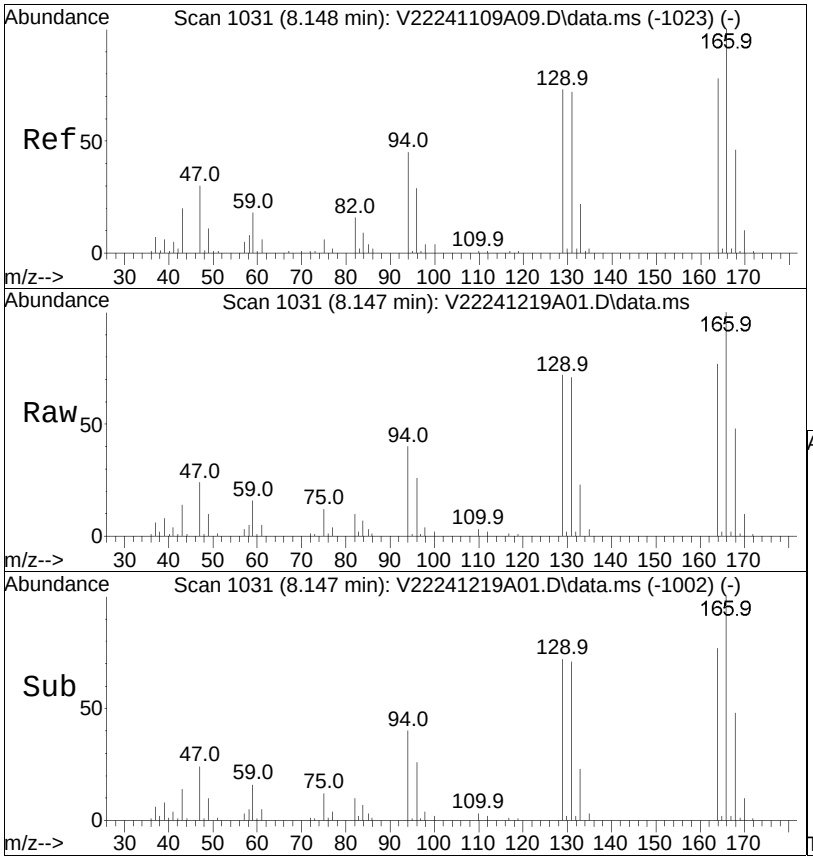


#65
4-Methyl-2-pentanone
Concen: 8.53 ug/L
RT: 8.127 min Scan# 1028
Delta R.T. -0.007 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion: 58 Resp: 10302

Ion	Ratio	Lower	Upper
58	100		
100	39.8	36.2	54.4
43	273.6	181.8	272.8#

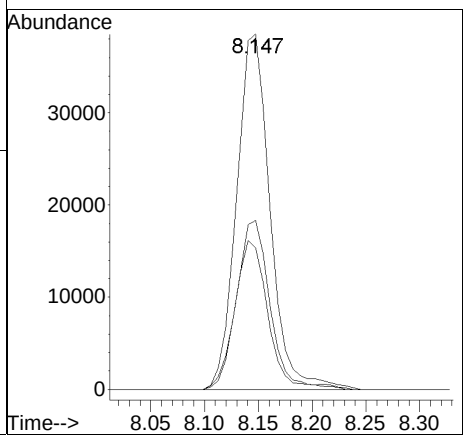


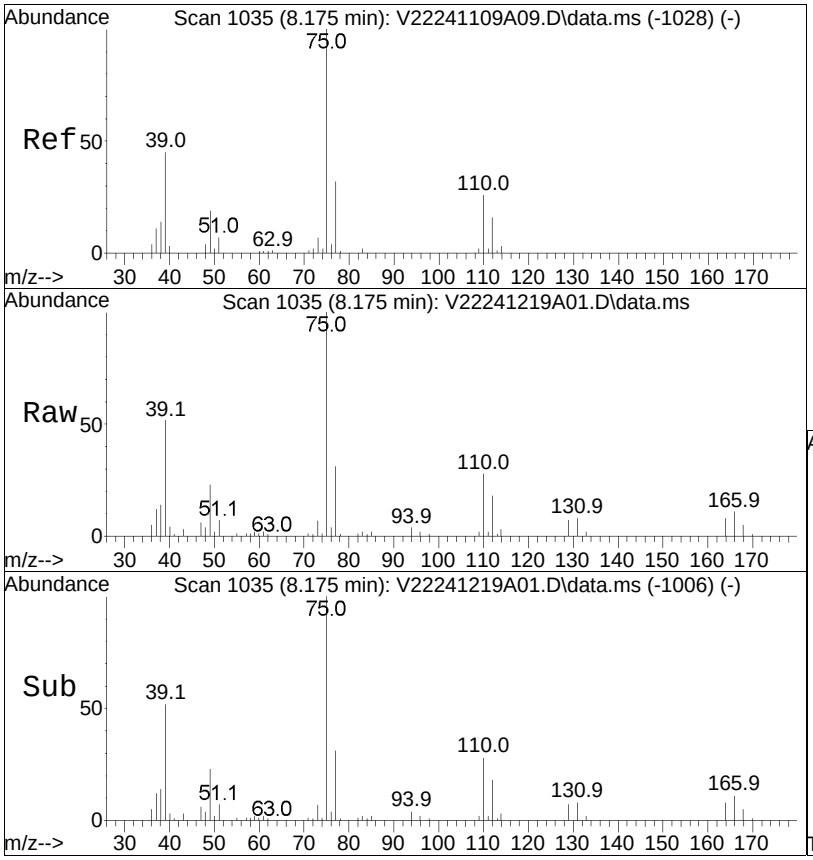


#66
Tetrachloroethene
Concen: 10.40 ug/L
RT: 8.147 min Scan# 1031
Delta R.T. -0.000 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion:166 Resp: 83657

Ion	Ratio	Lower	Upper
166	100		
168	47.6	27.8	67.8
94	41.5	16.7	56.7

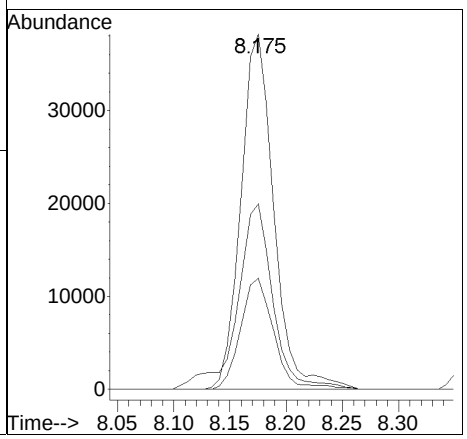


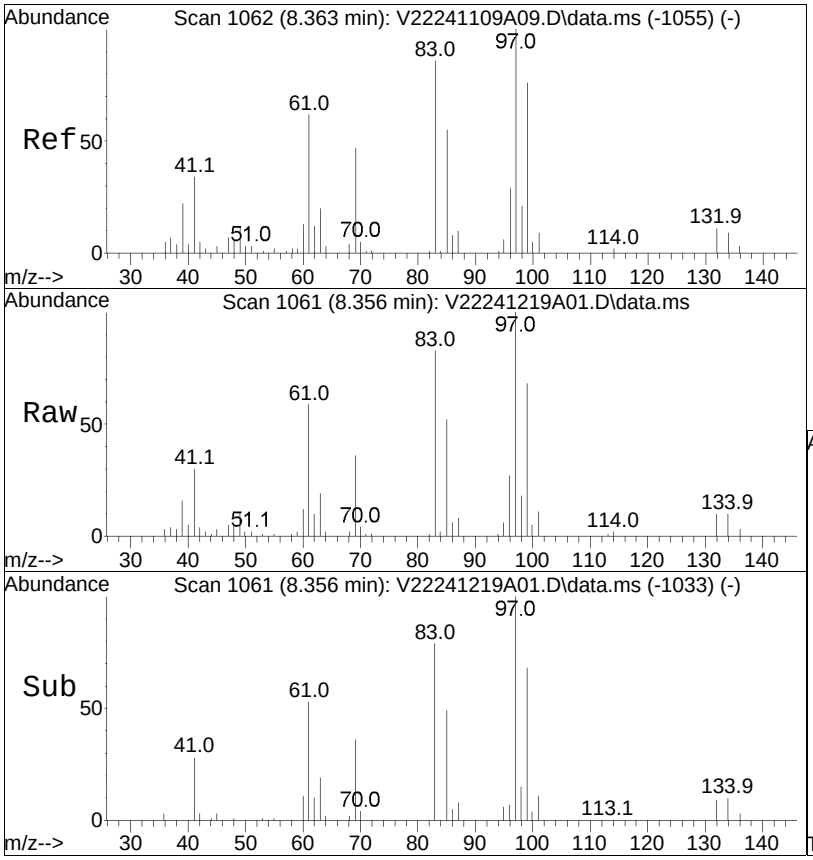


#68
trans-1,3-Dichloropropene
Concen: 9.75 ug/L
RT: 8.175 min Scan# 1035
Delta R.T. -0.000 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion: 75 Resp: 78109

Ion	Ratio	Lower	Upper
75	100		
77	31.5	11.9	51.9
39	56.4	27.4	67.4

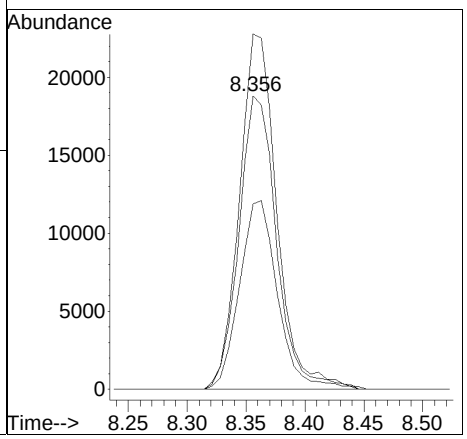


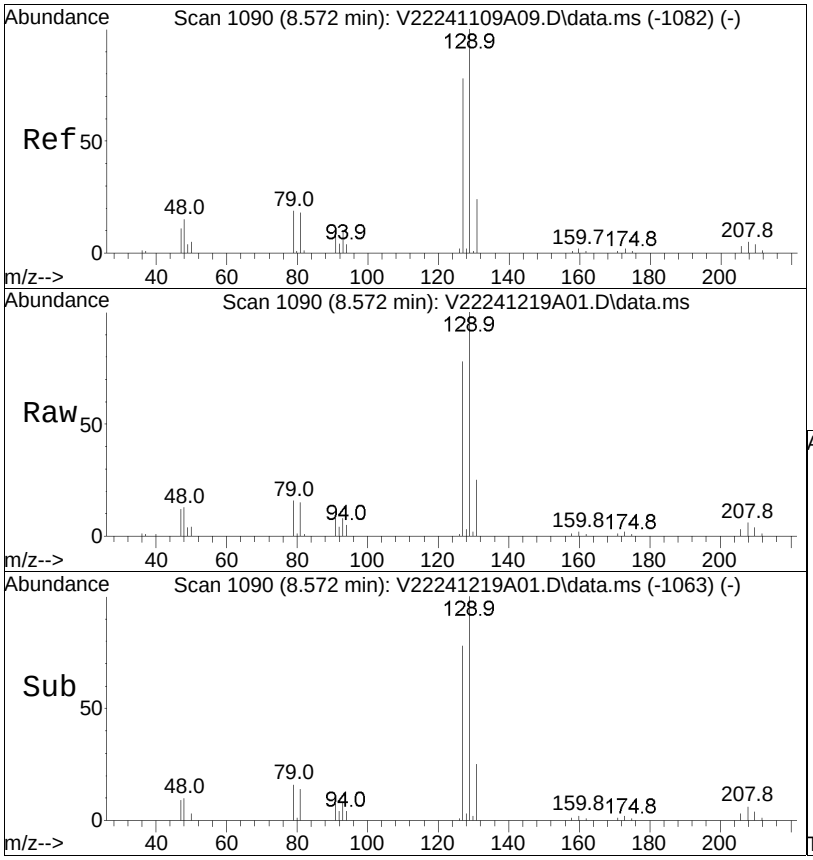


#71
1,1,2-Trichloroethane
Concen: 10.20 ug/L
RT: 8.356 min Scan# 1061
Delta R.T. -0.007 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion: 83 Resp: 41774

Ion	Ratio	Lower	Upper
83	100		
97	120.7	103.4	143.4
85	65.5	47.9	87.9

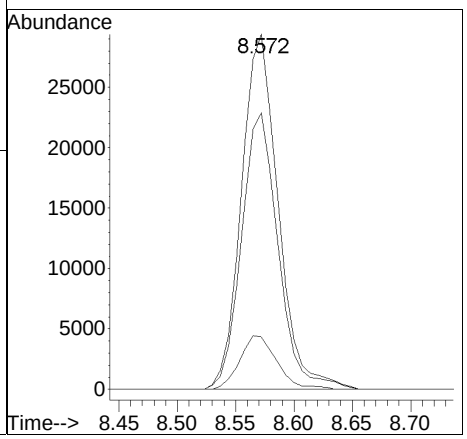


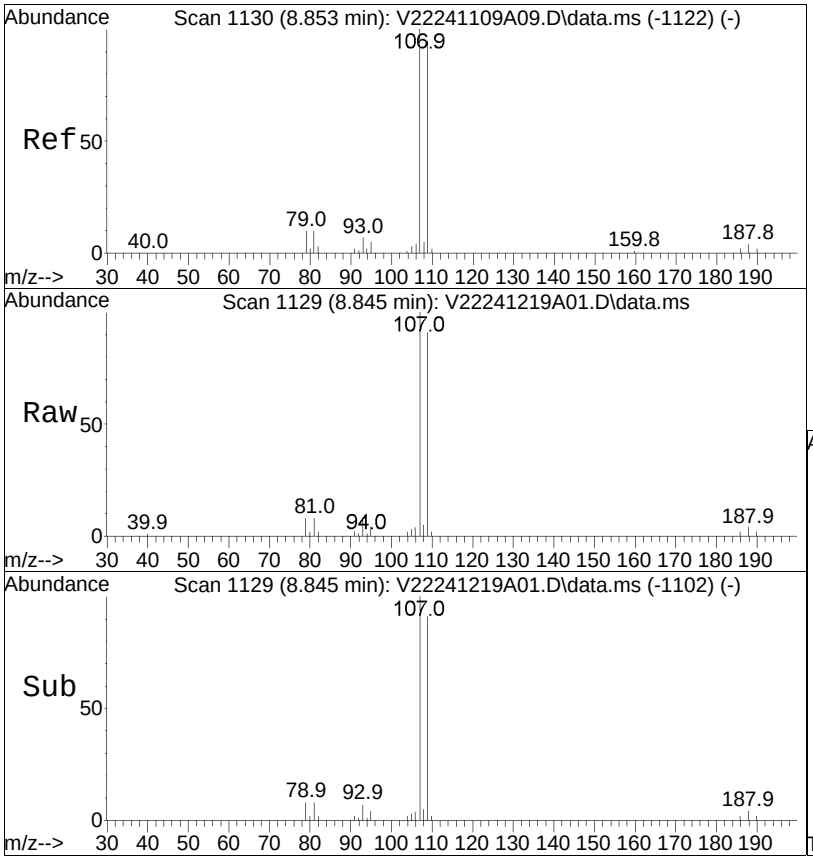


#72
Chlorodibromomethane
Concen: 9.57 ug/L
RT: 8.572 min Scan# 1090
Delta R.T. -0.000 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion:129 Resp: 64489

Ion	Ratio	Lower	Upper
129	100		
81	15.3	0.0	33.8
127	77.6	57.1	97.1

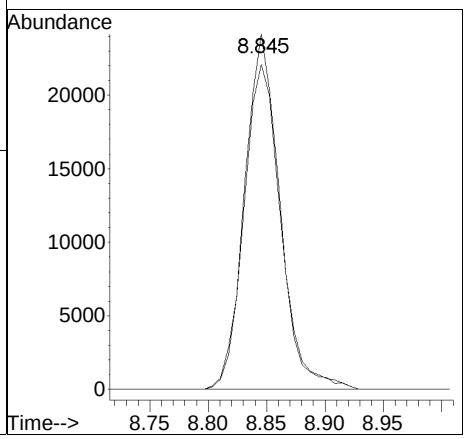


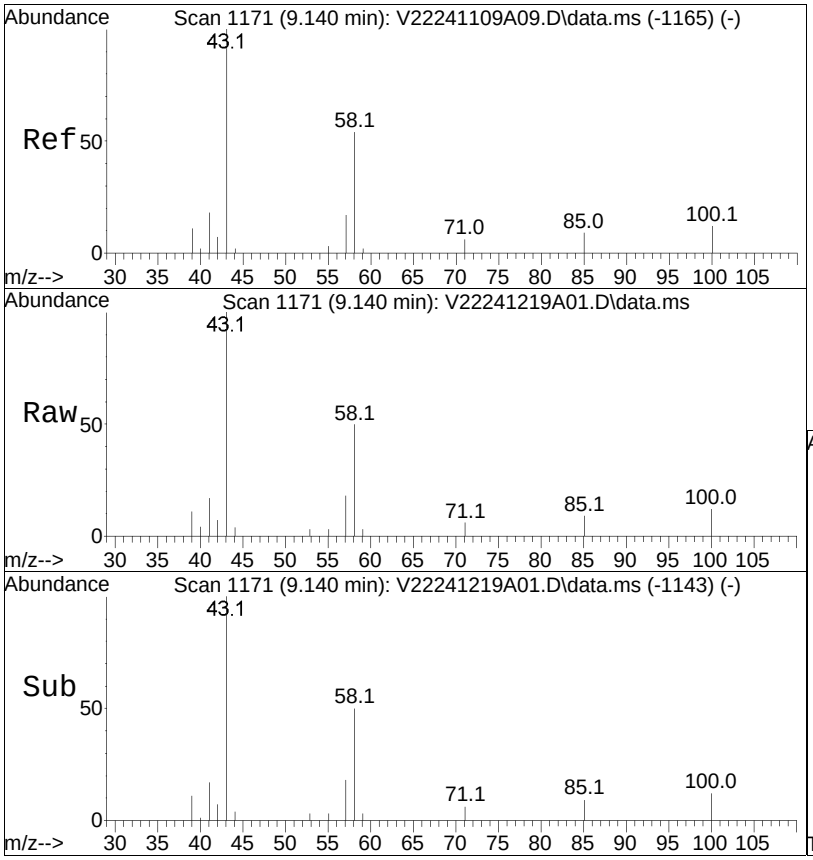


#74
1,2-Dibromoethane
Concen: 10.17 ug/L
RT: 8.845 min Scan# 1129
Delta R.T. -0.007 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion:107 Resp: 51218

Ion	Ratio	Lower	Upper
107	100		
109	94.4	75.1	112.7

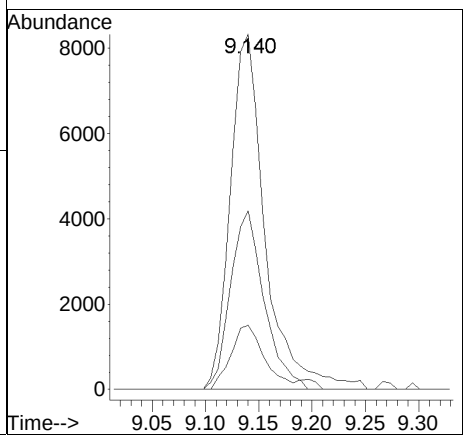


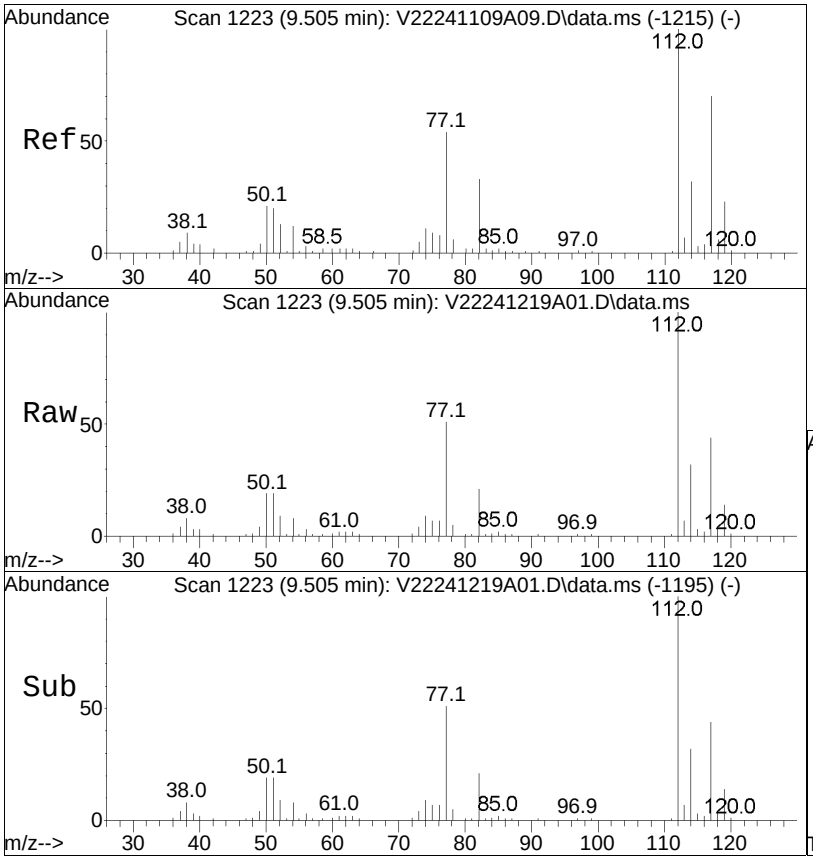


#76
2-Hexanone
Concen: 9.68 ug/L
RT: 9.140 min Scan# 1171
Delta R.T. -0.000 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion: 43 Resp: 19014

Ion	Ratio	Lower	Upper
43	100		
58	49.4	47.6	71.4
57	18.0	16.6	24.8

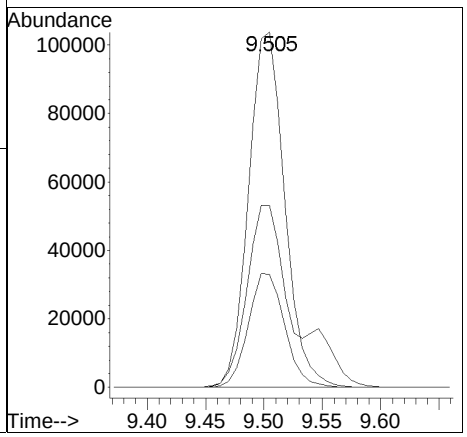


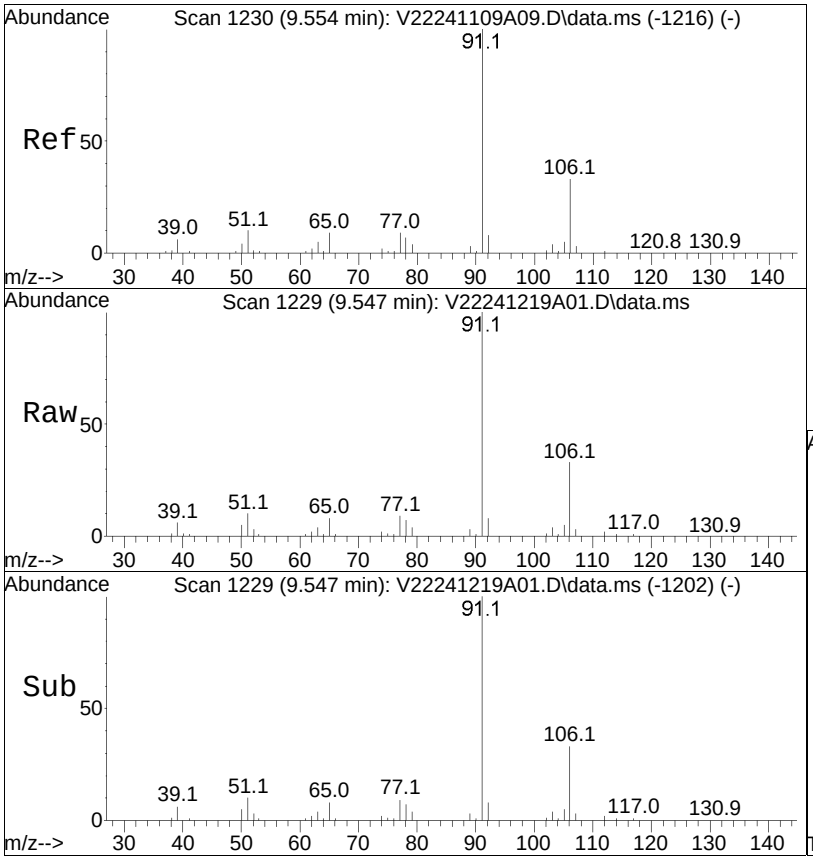


#77
Chlorobenzene
Concen: 11.05 ug/L
RT: 9.505 min Scan# 1223
Delta R.T. -0.000 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion:112 Resp: 223855

Ion	Ratio	Lower	Upper
112	100		
77	54.4	55.4	83.0#
114	32.3	26.2	39.4

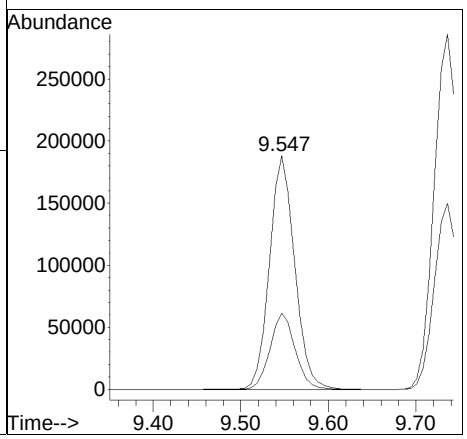


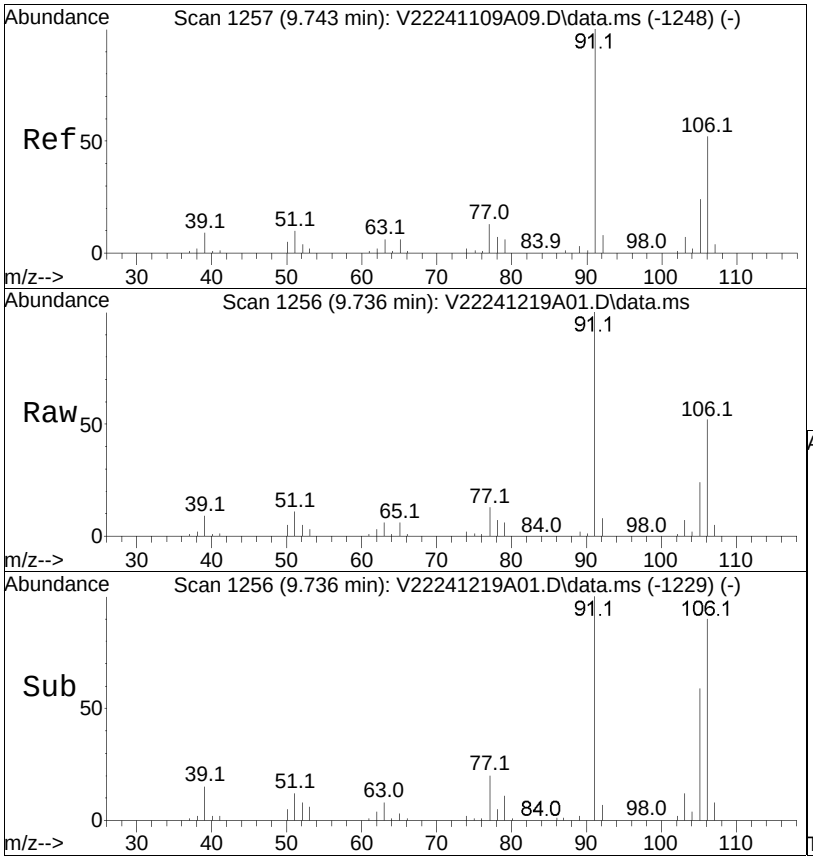


#78
Ethylbenzene
Concen: 10.80 ug/L
RT: 9.547 min Scan# 1229
Delta R.T. -0.007 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion: 91 Resp: 377026

Ion	Ratio	Lower	Upper
91	100		
106	32.3	25.8	38.6

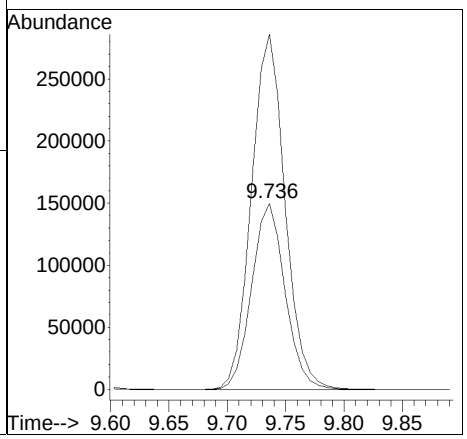


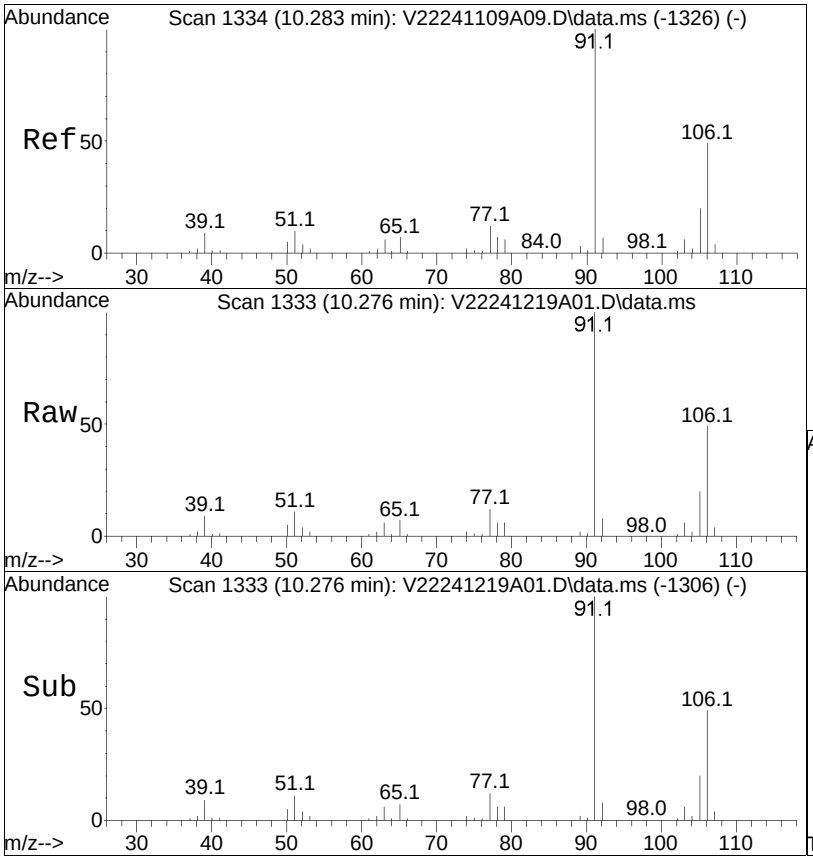


#80
p/m Xylene
Concen: 20.69 ug/L
RT: 9.736 min Scan# 1256
Delta R.T. -0.007 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion:106 Resp: 297885

Ion	Ratio	Lower	Upper
106	100		
91	192.0	156.0	234.0

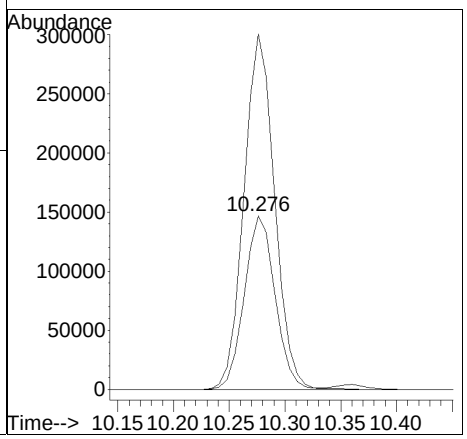


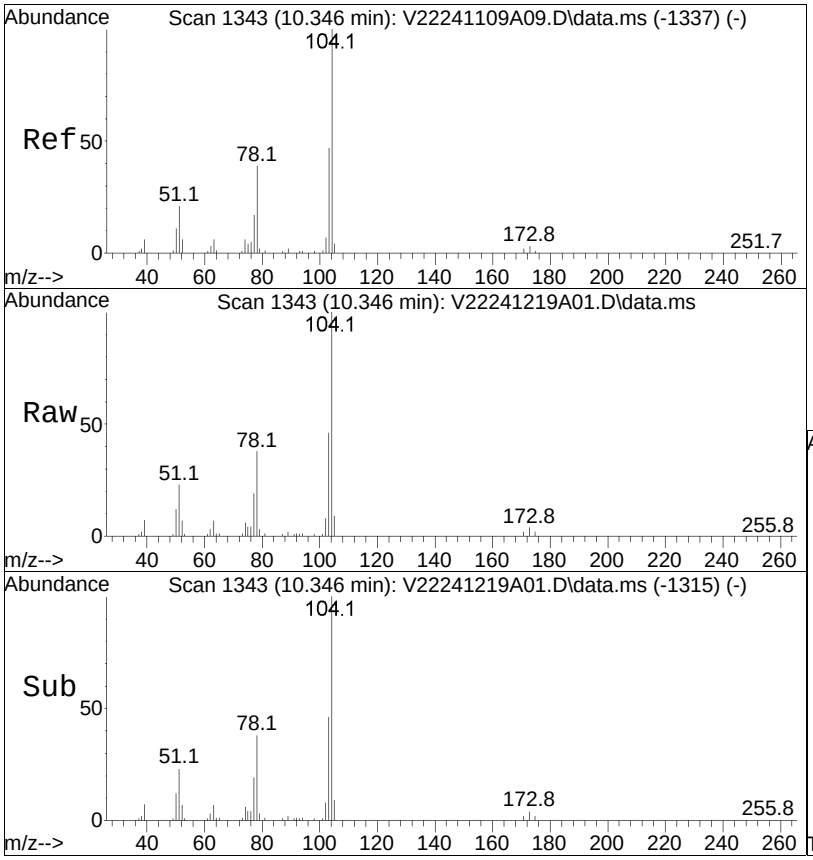


#81
o Xylene
Concen: 20.57 ug/L
RT: 10.276 min Scan# 1333
Delta R.T. -0.007 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion:106 Resp: 282258

Ion	Ratio	Lower	Upper
106	100		
91	202.8	164.0	246.0

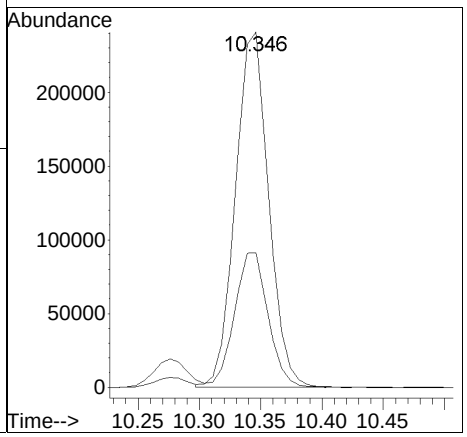


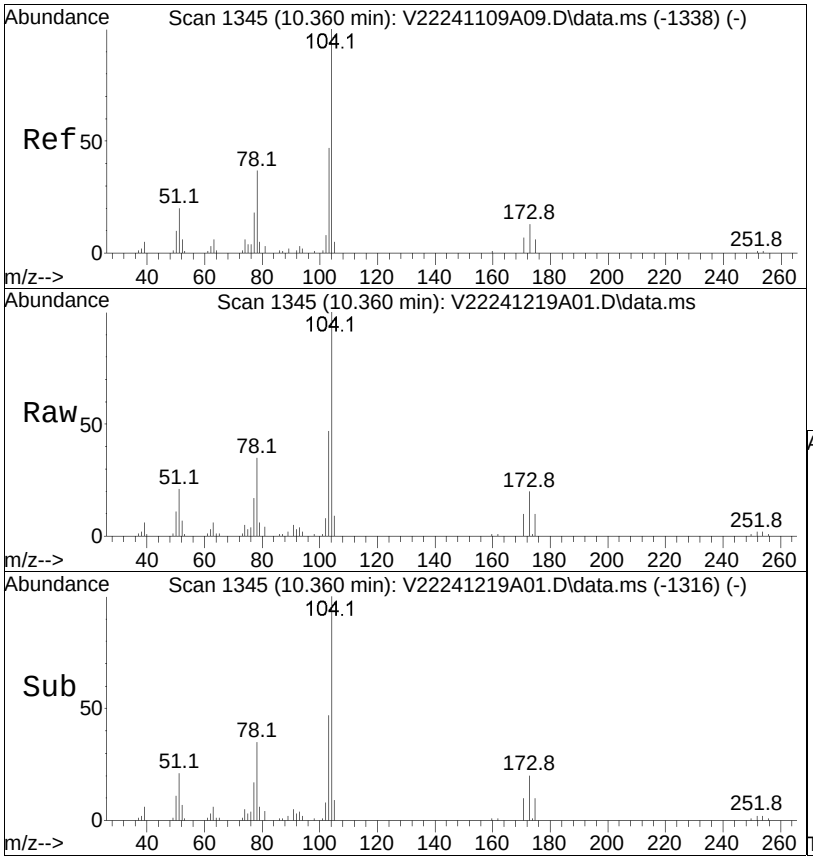


#82
Styrene
Concen: 20.54 ug/L
RT: 10.346 min Scan# 1343
Delta R.T. -0.000 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion:104 Resp: 453170

Ion	Ratio	Lower	Upper
104	100		
78	38.4	32.1	48.1

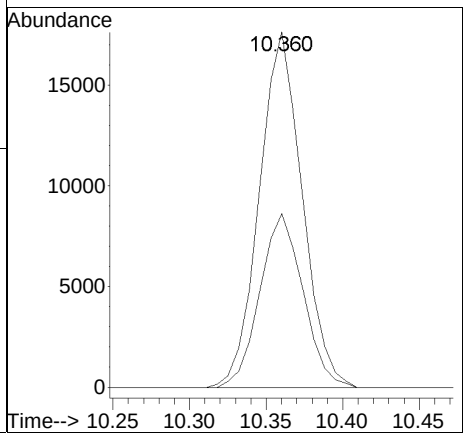


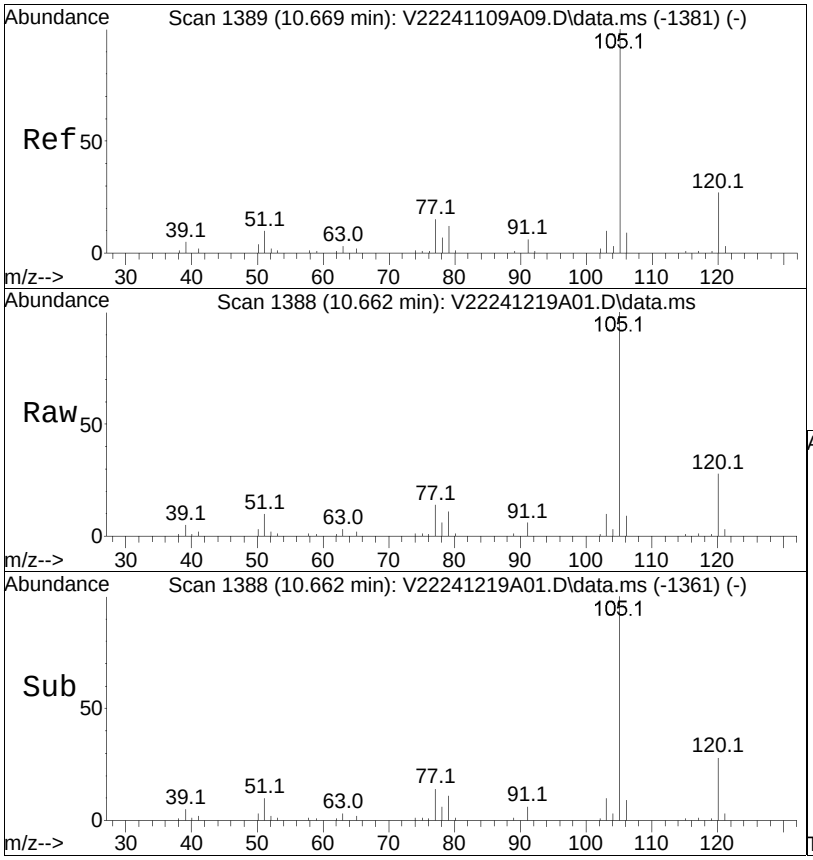


#84
Bromoform
Concen: 9.16 ug/L
RT: 10.360 min Scan# 1345
Delta R.T. 0.000 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion:173 Resp: 34305

Ion	Ratio	Lower	Upper
173	100		
175	49.2	29.3	69.3

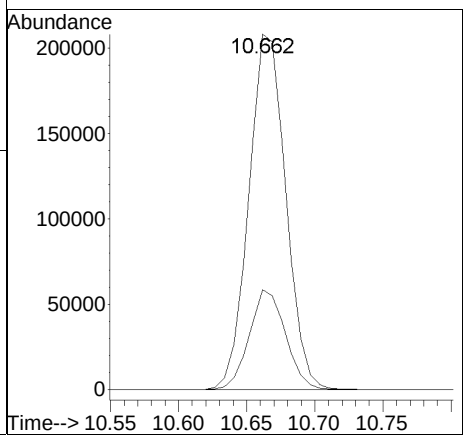


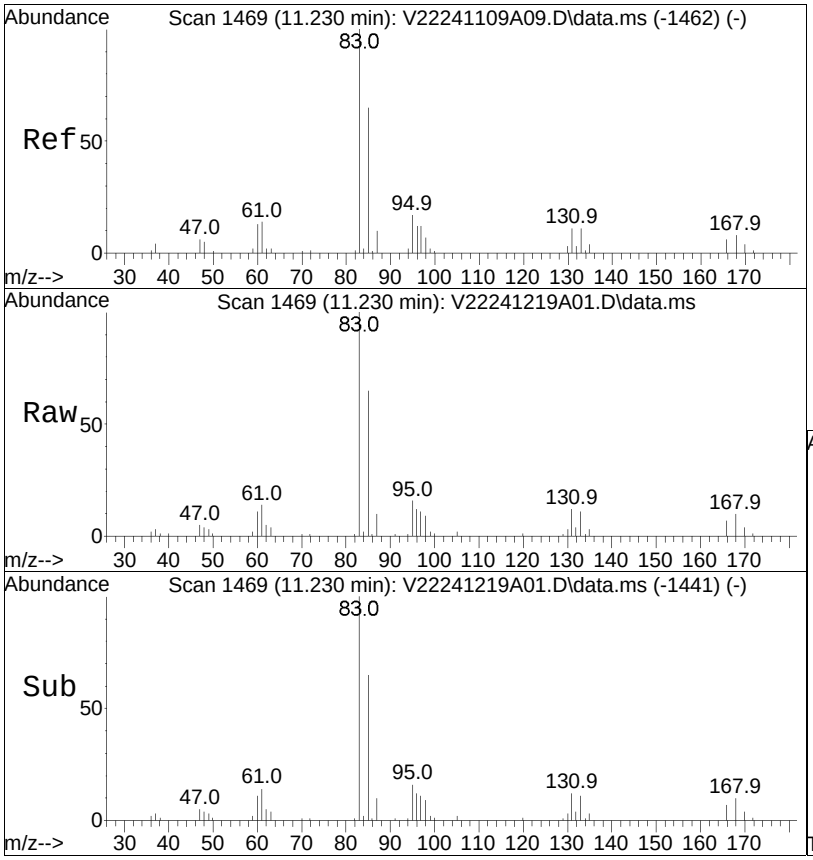


#86
Isopropylbenzene
Concen: 11.08 ug/L
RT: 10.662 min Scan# 1388
Delta R.T. -0.007 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion:105 Resp: 392071

Ion	Ratio	Lower	Upper
105	100		
120	27.4	7.7	47.7

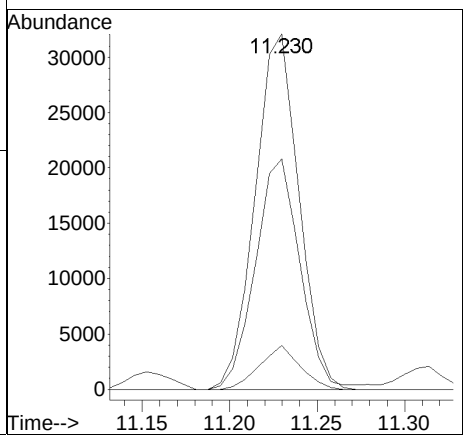


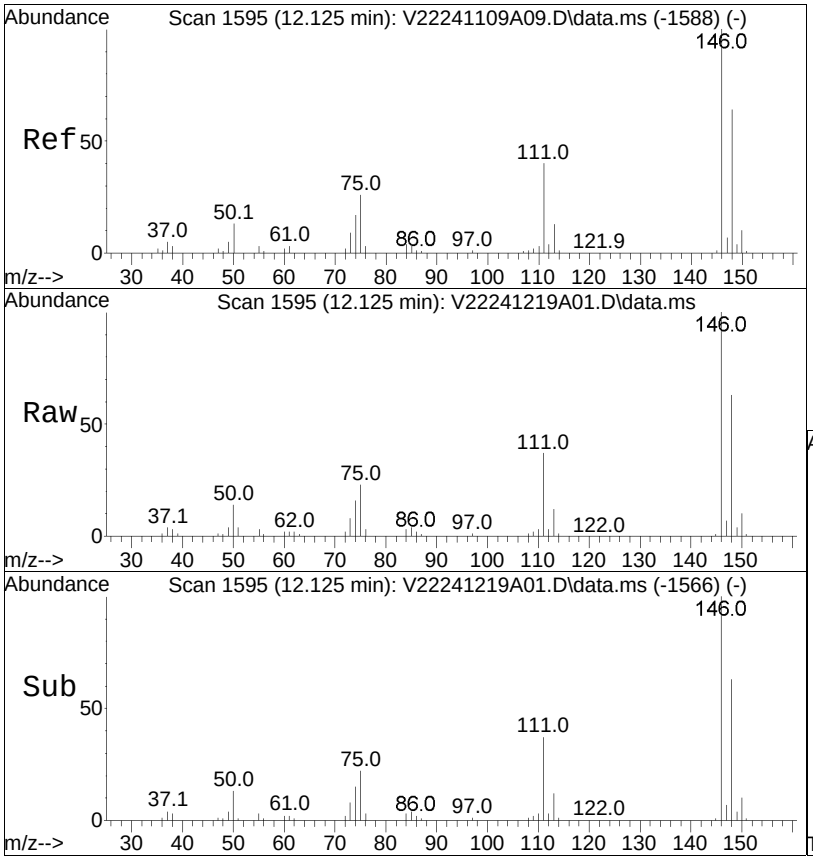


#91
1,1,2,2-Tetrachloroethane
Concen: 10.13 ug/L
RT: 11.230 min Scan# 1469
Delta R.T. -0.000 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion: 83 Resp: 55822

Ion	Ratio	Lower	Upper
83	100		
131	11.4	0.0	30.8
85	66.0	45.4	85.4

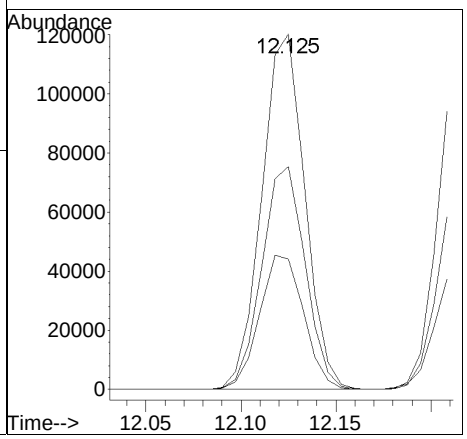


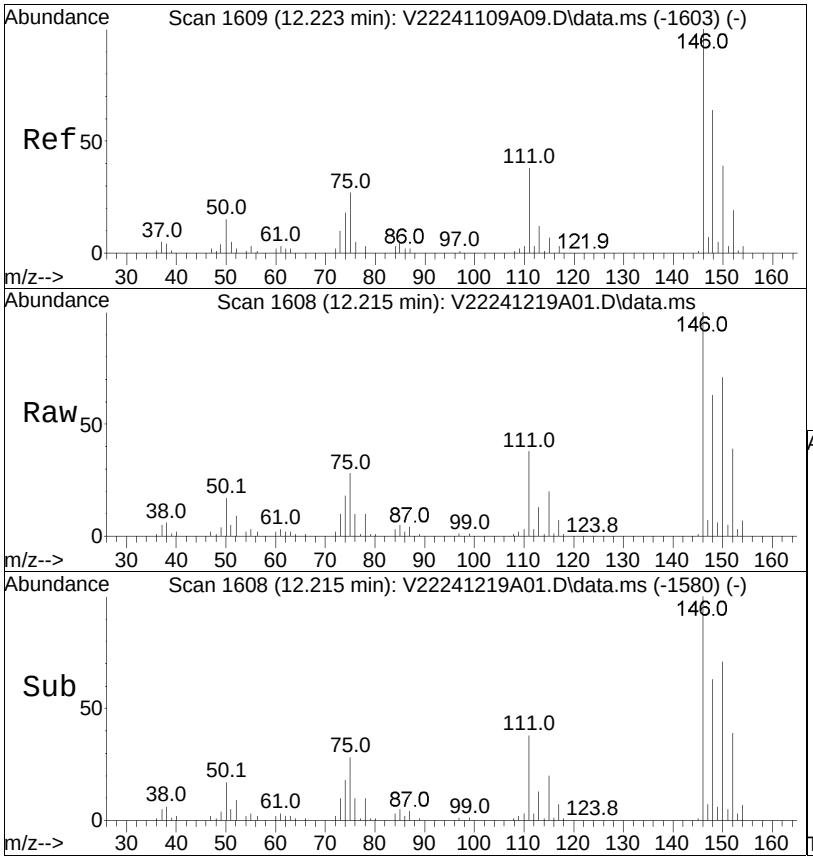


#104
1,3-Dichlorobenzene
Concen: 11.24 ug/L
RT: 12.125 min Scan# 1595
Delta R.T. -0.000 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion:146 Resp: 189409

Ion	Ratio	Lower	Upper
146	100		
111	38.7	24.0	49.8
148	63.3	41.8	86.8

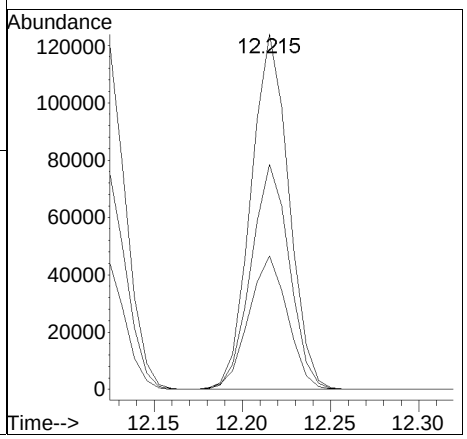


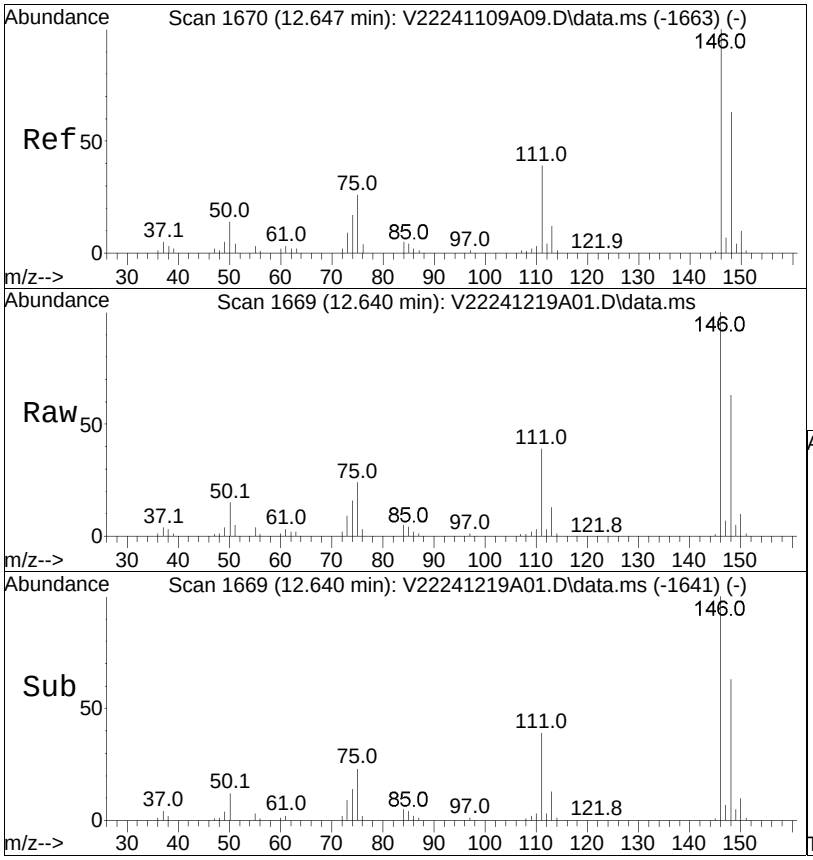


#105
1,4-Dichlorobenzene
Concen: 11.02 ug/L
RT: 12.215 min Scan# 1608
Delta R.T. -0.007 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion:146 Resp: 185564

Ion	Ratio	Lower	Upper
146	100		
111	38.6	28.9	43.3
148	64.1	51.4	77.2

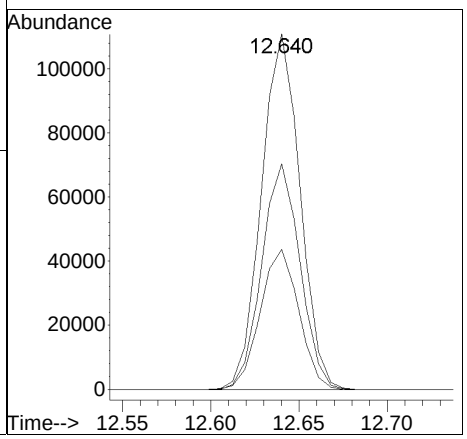


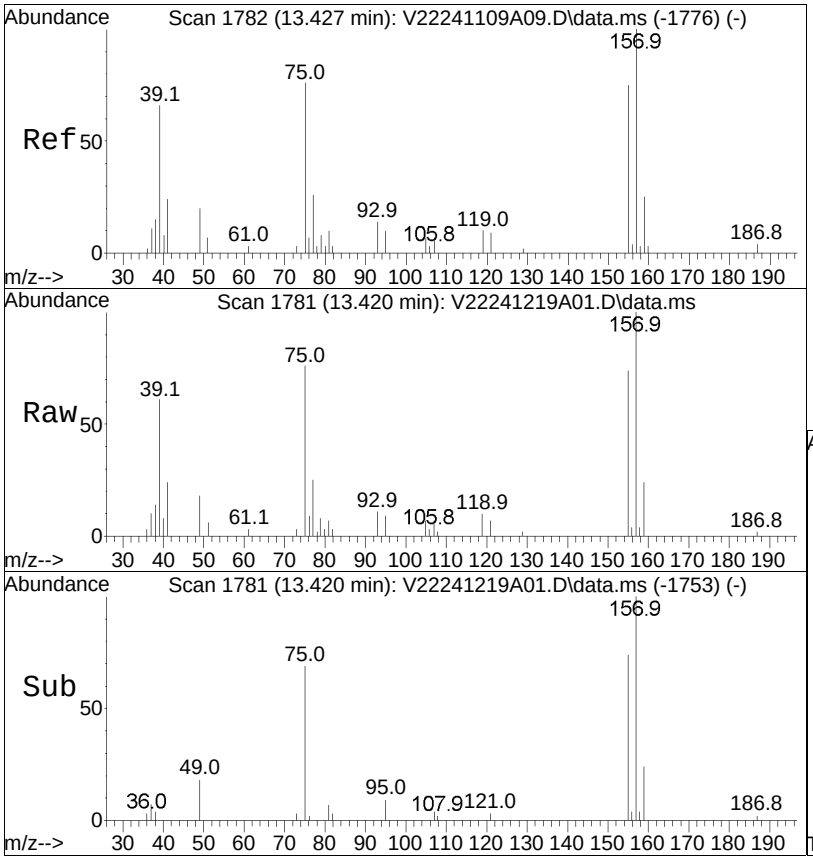


#108
1,2-Dichlorobenzene
Concen: 11.23 ug/L
RT: 12.640 min Scan# 1669
Delta R.T. -0.007 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion:146 Resp: 168895

Ion	Ratio	Lower	Upper
146	100		
111	39.3	24.8	51.6
148	63.0	42.2	87.6

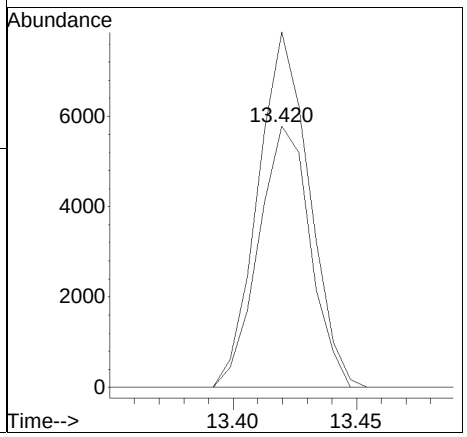


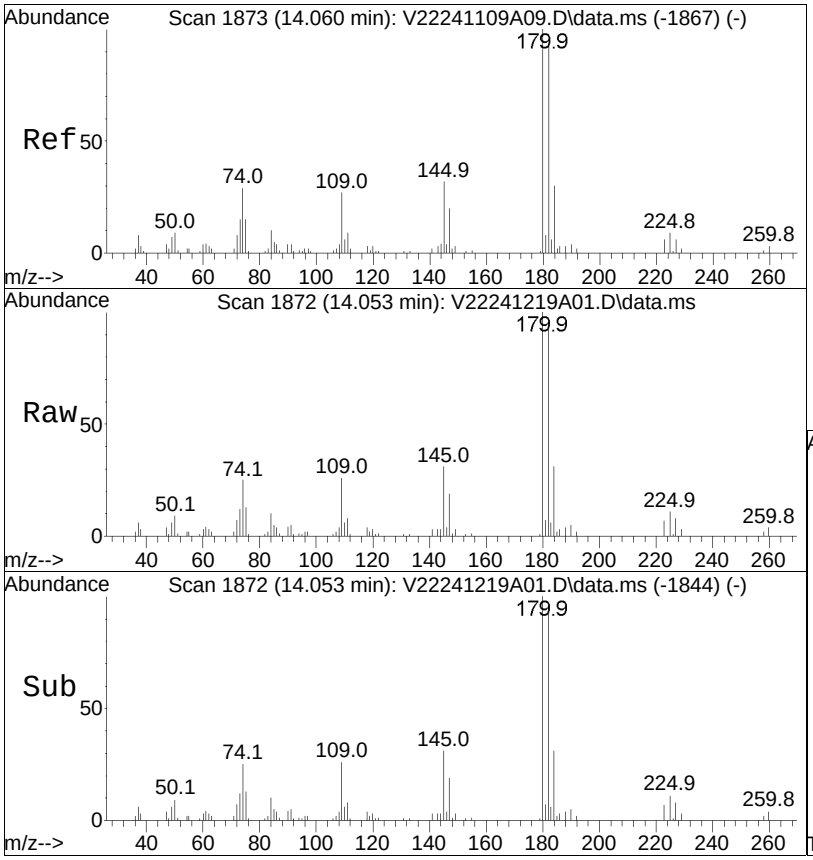


#110
1,2-Dibromo-3-chloropropane
Concen: 9.82 ug/L
RT: 13.420 min Scan# 1781
Delta R.T. -0.007 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion:155 Resp: 8432

Ion	Ratio	Lower	Upper
155	100		
157	135.1	102.3	153.5

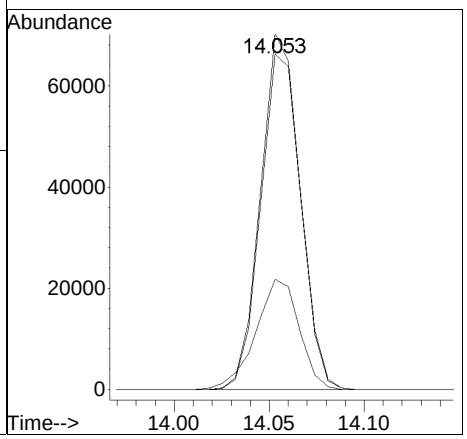


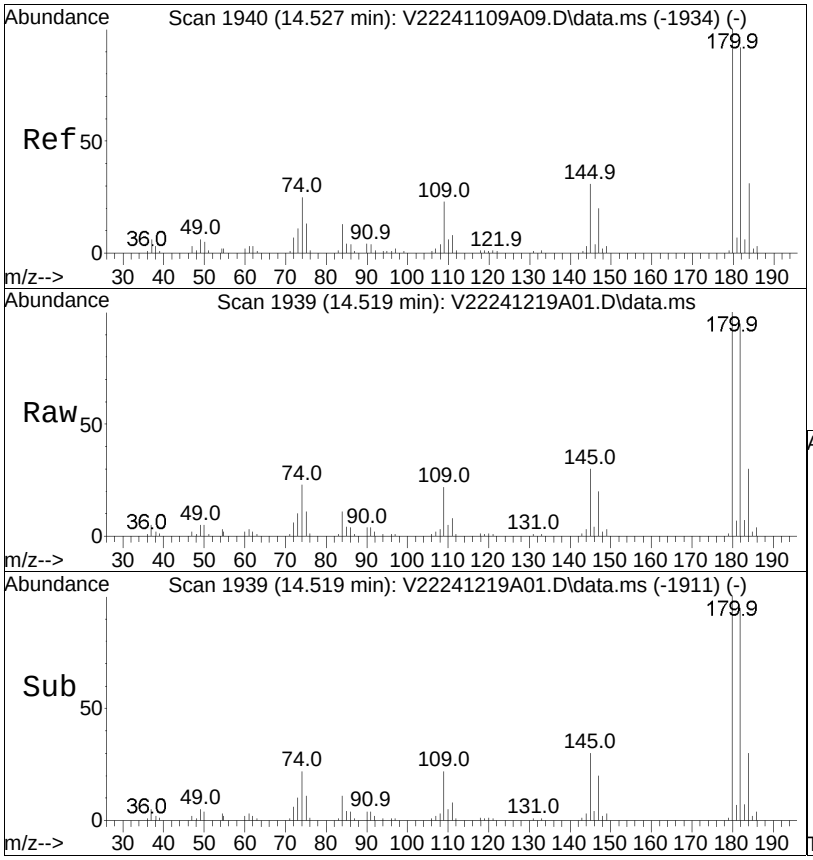


#113
1,2,4-Trichlorobenzene
Concen: 11.60 ug/L
RT: 14.053 min Scan# 1872
Delta R.T. -0.007 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion:180 Resp: 101933

Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.6	114.8
145	33.9	25.5	38.3

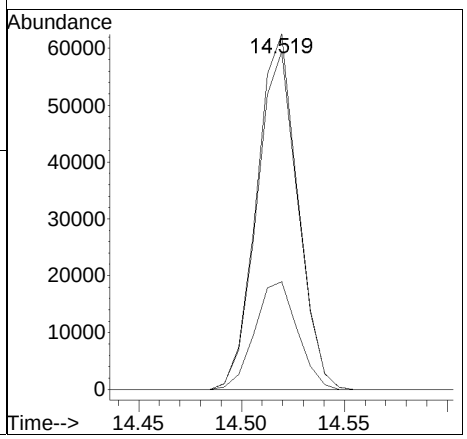




#115
1,2,3-Trichlorobenzene
Concen: 11.63 ug/L
RT: 14.519 min Scan# 1939
Delta R.T. -0.007 min
Lab File: V22241219A01.D
Acq: 19 Dec 2024 07:38 am

Tgt Ion:180 Resp: 86704

Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.0	114.0
145	31.5	23.8	35.8



Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241219A\
Data File : V22241219A02.D
Acq On : 19 Dec 2024 08:03 am
Operator : VOA122:PID
Sample : WG2011630-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2011630,ICAL21691 (Sig #1); WG,ICAL21691 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 19 08:33:24 2024
Quant Method : K:\VOA122\2024\241219A\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\241219A\V22241219A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.944	96	542860	10.000	ug/L	0.00
Standard Area 1 = 506888			Recovery = 107.10%			
62) Chlorobenzene-d5	9.484	117	437191	10.000	ug/L	0.00
Standard Area 1 = 423029			Recovery = 103.35%			
83) 1,4-Dichlorobenzene-d4	12.202	152	228259	10.000	ug/L	0.00
Standard Area 1 = 228806			Recovery = 99.76%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.131	113	187841	10.138	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.38%			
46) 1,2-Dichloroethane-d4	5.649	65	111749	9.760	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.60%			
63) Toluene-d8	7.640	98	547452	9.932	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.32%			
87) 4-Bromofluorobenzene	10.984	95	195062	10.468	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.68%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.612	85	99853	8.907	ug/L	97
3) Chloromethane	1.795	50	98434	10.260	ug/L	98
4) Vinyl chloride	1.867	62	97761	7.640	ug/L	99
5) Bromomethane	2.175	94	25010	2.705	ug/L	95
6) Chloroethane	2.287	64	57581	6.567	ug/L	99
7) Trichlorofluoromethane	2.425	101	129095	8.817	ug/L	99
10) 1,1-Dichloroethene	2.910	96	74388	9.629	ug/L	94
11) Carbon disulfide	2.942	76	235706	10.037	ug/L	100
12) Freon-113	2.949	101	78477	9.660	ug/L	95
15) Methylene chloride	3.454	84	90722	9.993	ug/L	82
17) Acetone	3.486	43	13722	10.497	ug/L	97
18) trans-1,2-Dichloroethene	3.604	96	85895	10.129	ug/L	97
19) Methyl acetate	3.611	43	32169	10.127	ug/L #	89
21) Methyl tert-butyl ether	3.703	73	145014	9.749	ug/L #	88
25) 1,1-Dichloroethane	4.181	63	152233	9.914	ug/L	97
30) cis-1,2-Dichloroethene	4.692	96	97220	10.359	ug/L	96
32) Bromochloromethane	4.882	128	48702	10.324	ug/L	91
33) Cyclohexane	4.895	56	134363	9.190	ug/L	89
34) Chloroform	4.954	83	148711	9.686	ug/L	97
36) Carbon tetrachloride	5.099	117	116003	9.341	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241219A\
Data File : V22241219A02.D
Acq On : 19 Dec 2024 08:03 am
Operator : VOA122:PID
Sample : WG2011630-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2011630,ICAL21691 (Sig #1); WG,ICAL21691 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 19 08:33:24 2024
Quant Method : K:\VOA122\2024\241219A\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\241219A\V22241219A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) 1,1,1-Trichloroethane	5.164	97	129461	9.249	ug/L		98
41) 2-Butanone	5.243	43	21949	11.820	ug/L	#	51
44) Benzene	5.525	78	318814	9.545	ug/L		96
47) 1,2-Dichloroethane	5.728	62	77813	9.590	ug/L		95
50) Methyl cyclohexane	6.121	83	103999	8.496	ug/L		90
51) Trichloroethene	6.121	95	70714	9.098	ug/L		98
54) 1,2-Dichloropropane	6.660	63	67758	10.093	ug/L		98
57) Bromodichloromethane	6.737	83	90793	9.737	ug/L		98
61) cis-1,3-Dichloropropene	7.425	75	94883	9.774	ug/L	#	91
64) Toluene	7.696	92	179141	9.878	ug/L		100
65) 4-Methyl-2-pentanone	8.127	58	10273	8.234	ug/L	#	69
66) Tetrachloroethene	8.141	166	79848	9.607	ug/L		96
68) trans-1,3-Dichloropropene	8.175	75	76042	9.184	ug/L		91
71) 1,1,2-Trichloroethane	8.356	83	41176	9.731	ug/L		98
72) Chlorodibromomethane	8.572	129	63216	9.073	ug/L		98
74) 1,2-Dibromoethane	8.845	107	50399	9.682	ug/L		100
76) 2-Hexanone	9.140	43	19690	9.704	ug/L	#	85
77) Chlorobenzene	9.505	112	216775	10.350	ug/L	#	88
78) Ethylbenzene	9.547	91	360132	9.986	ug/L		99
80) p/m Xylene	9.736	106	282906	19.017	ug/L		99
81) o Xylene	10.276	106	269684	19.016	ug/L		99
82) Styrene	10.339	104	433422	19.009	ug/L		98
84) Bromoform	10.360	173	33848	9.067	ug/L		99
86) Isopropylbenzene	10.662	105	367988	10.420	ug/L		100
91) 1,1,2,2-Tetrachloroethane	11.230	83	54649	9.940	ug/L		99
104) 1,3-Dichlorobenzene	12.125	146	178301	10.606	ug/L		99
105) 1,4-Dichlorobenzene	12.216	146	172876	10.291	ug/L		98
108) 1,2-Dichlorobenzene	12.640	146	158982	10.599	ug/L		98
110) 1,2-Dibromo-3-chloropr...	13.420	155	8614	10.055	ug/L		96
113) 1,2,4-Trichlorobenzene	14.053	180	92672	10.573	ug/L		98
115) 1,2,3-Trichlorobenzene	14.520	180	79338	10.663	ug/L		96

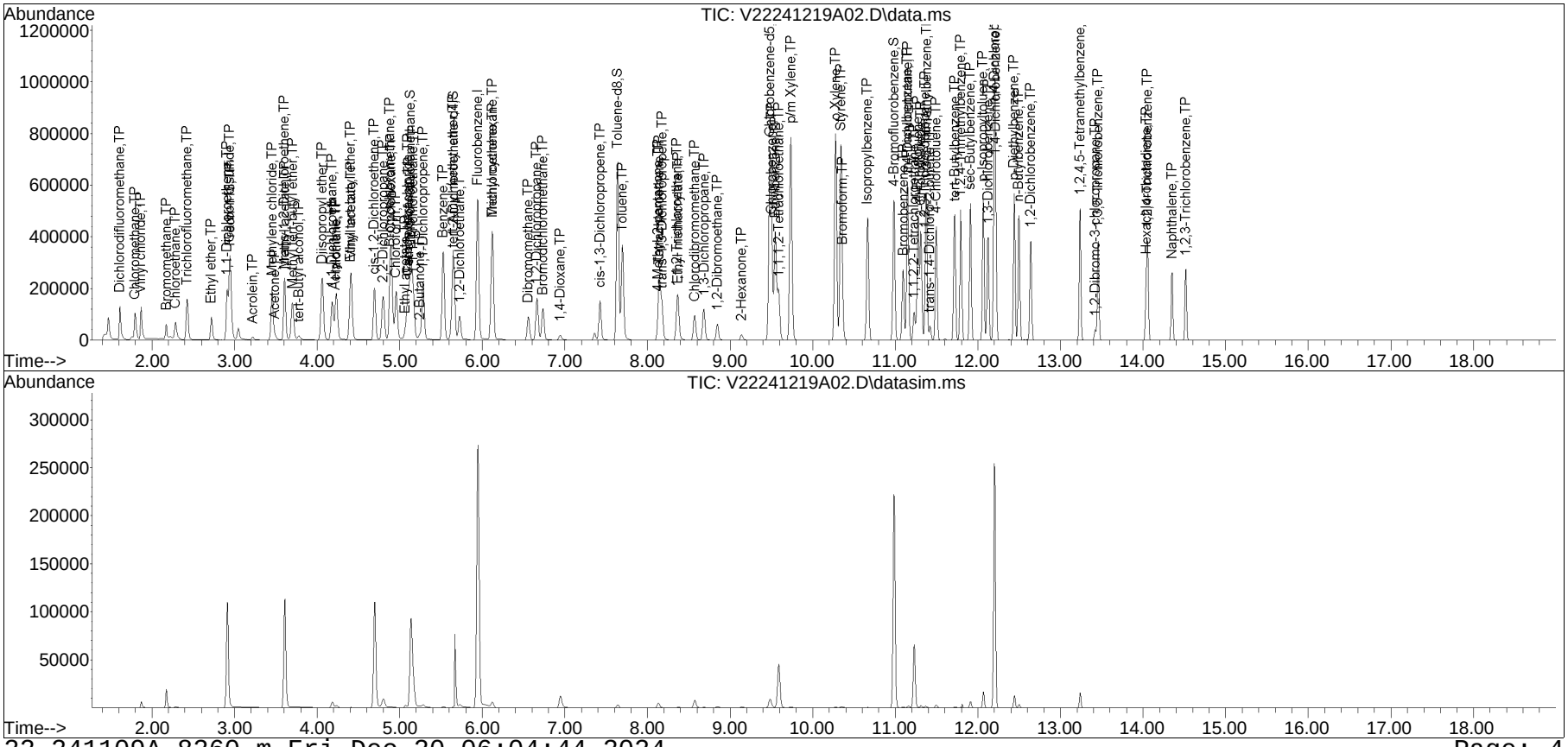
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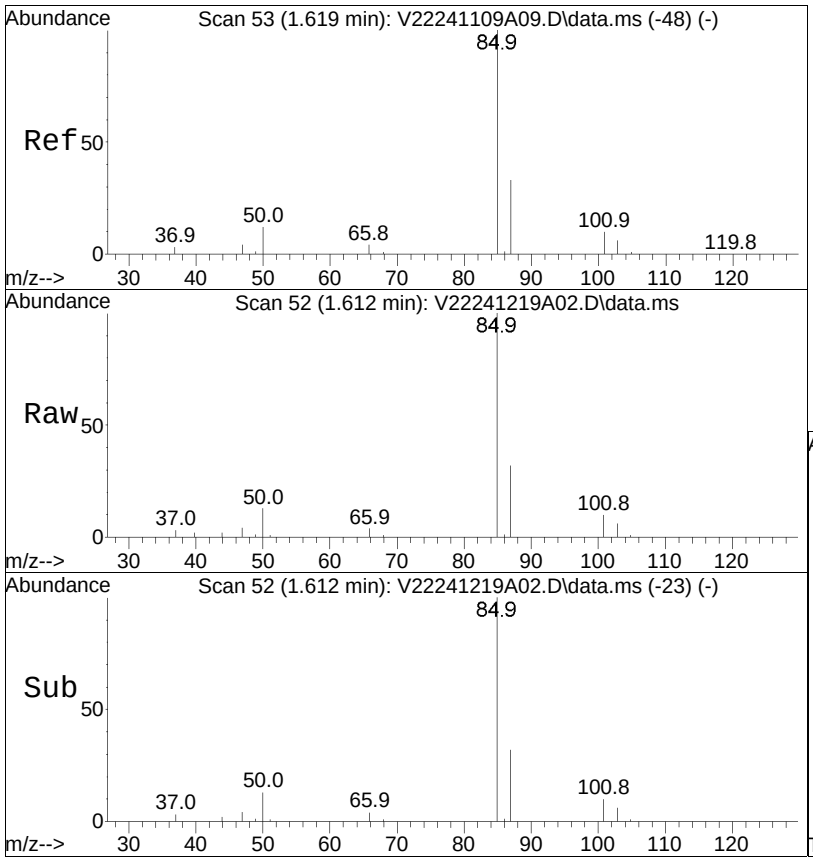
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\241219A\
Data File : V22241219A02.D
Acq On : 19 Dec 2024 08:03 am
Operator : VOA122:PID
Sample : WG2011630-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2011630,ICAL21691 (Sig #1); WG,ICAL21691 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 19 08:33:24 2024
Quant Method : K:\VOA122\2024\241219A\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-IM-2CEVE - Megamix plus Diox-Iodomethane

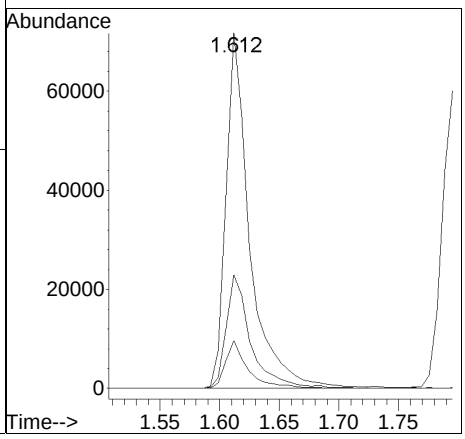


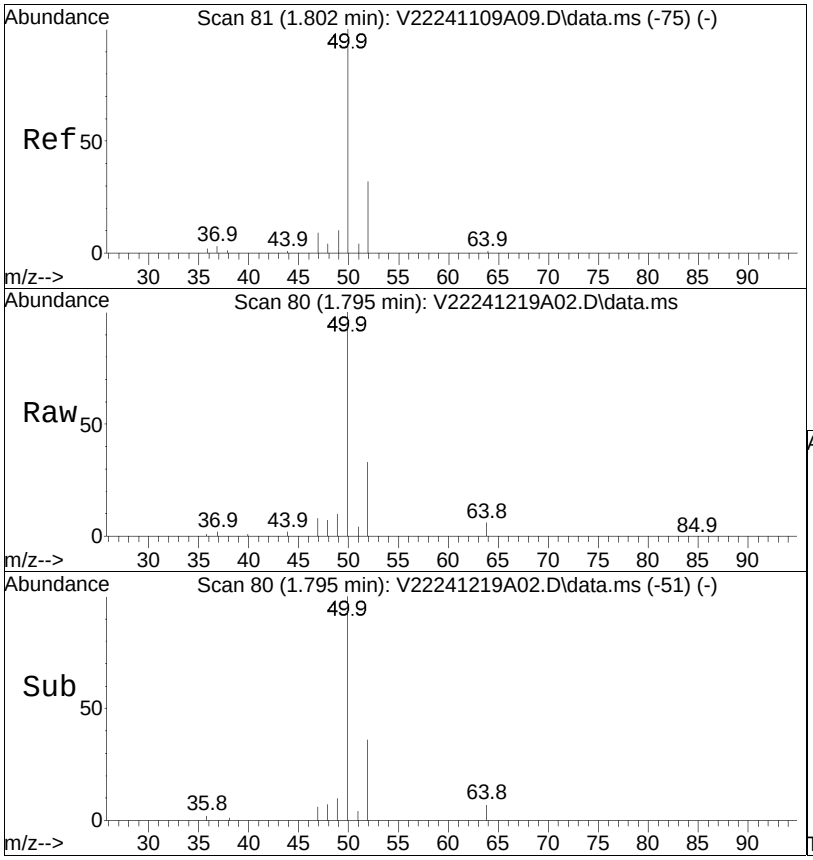


#2
Dichlorodifluoromethane
Concen: 8.91 ug/L
RT: 1.612 min Scan# 52
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion: 85 Resp: 99853

Ion	Ratio	Lower	Upper
85	100		
87	33.0	20.7	42.9
50	12.7	6.8	14.2

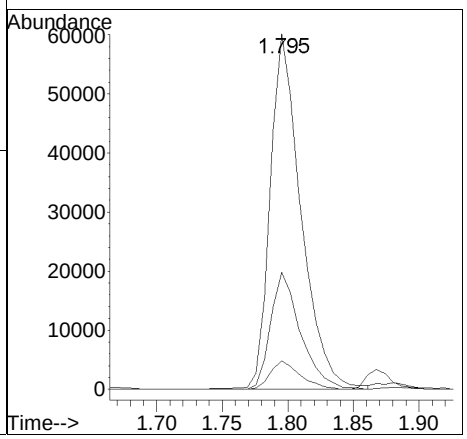


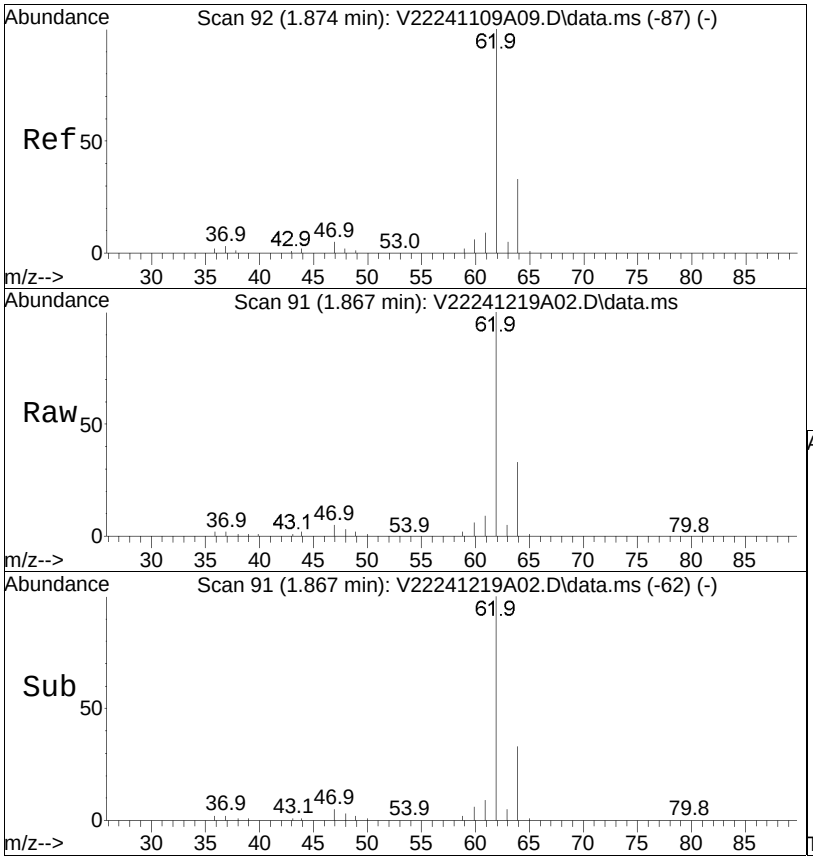


#3
Chloromethane
Concen: 10.26 ug/L
RT: 1.795 min Scan# 80
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion: 50 Resp: 98434

Ion	Ratio	Lower	Upper
50	100		
52	32.1	12.8	52.8
47	7.8	0.0	30.0

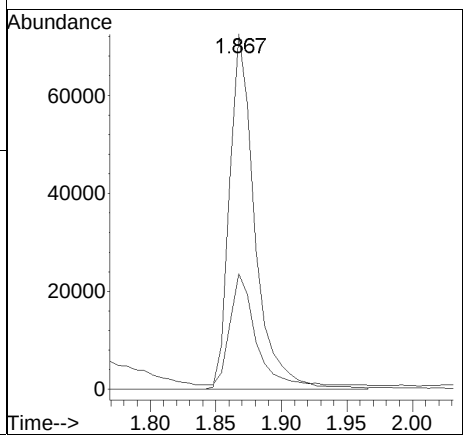


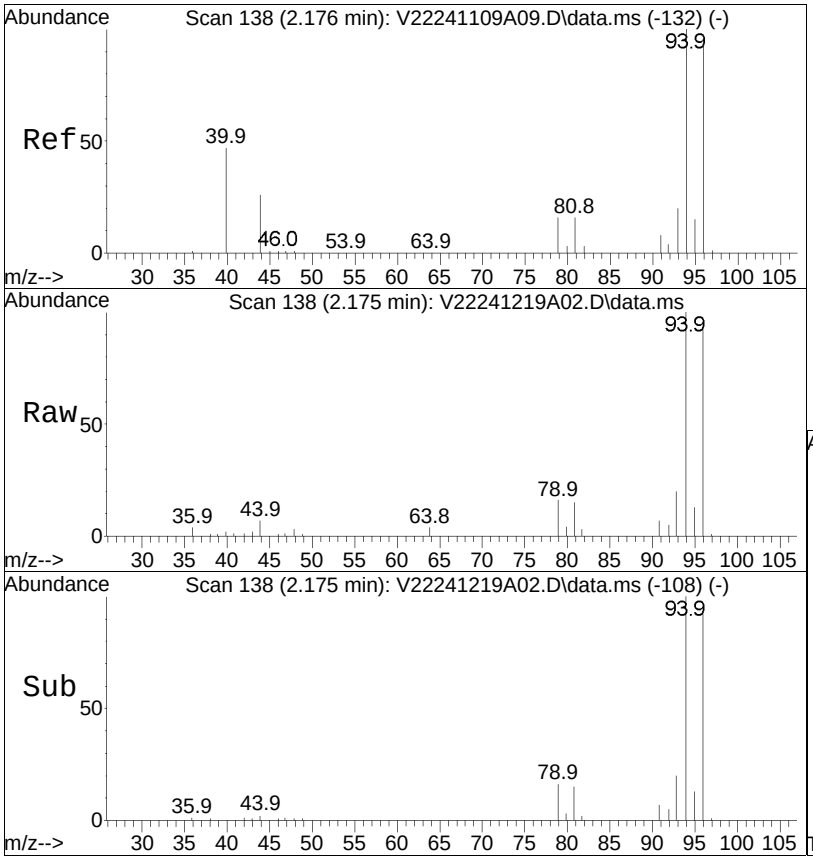


#4
Vinyl chloride
Concen: 7.64 ug/L
RT: 1.867 min Scan# 91
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion: 62 Resp: 97761

Ion	Ratio	Lower	Upper
62	100		
64	31.7	12.0	52.0

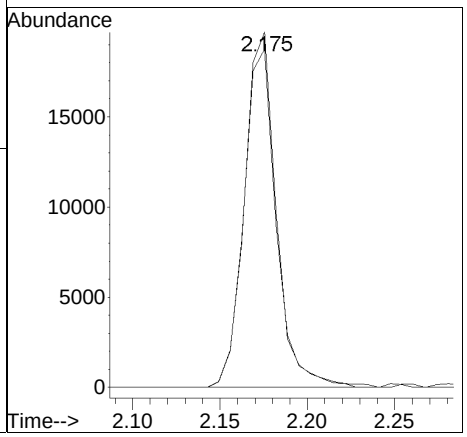


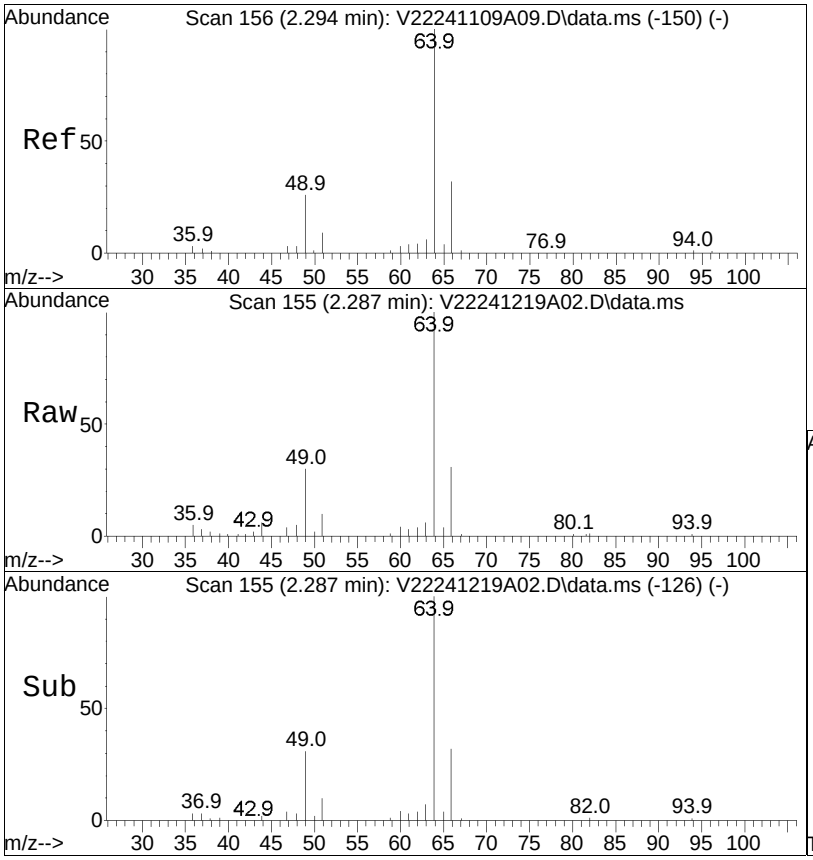


#5
Bromomethane
Concen: 2.71 ug/L
RT: 2.175 min Scan# 138
Delta R.T. -0.000 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion: 94 Resp: 25010

Ion	Ratio	Lower	Upper
94	100		
96	97.5	72.8	112.8

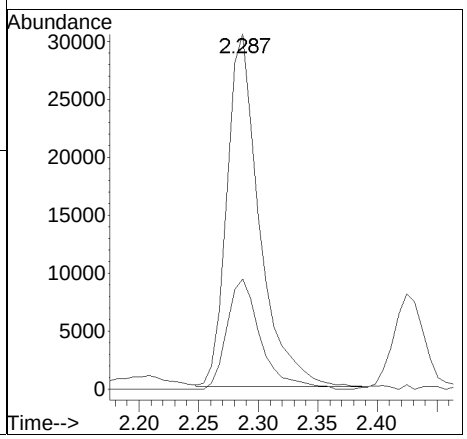


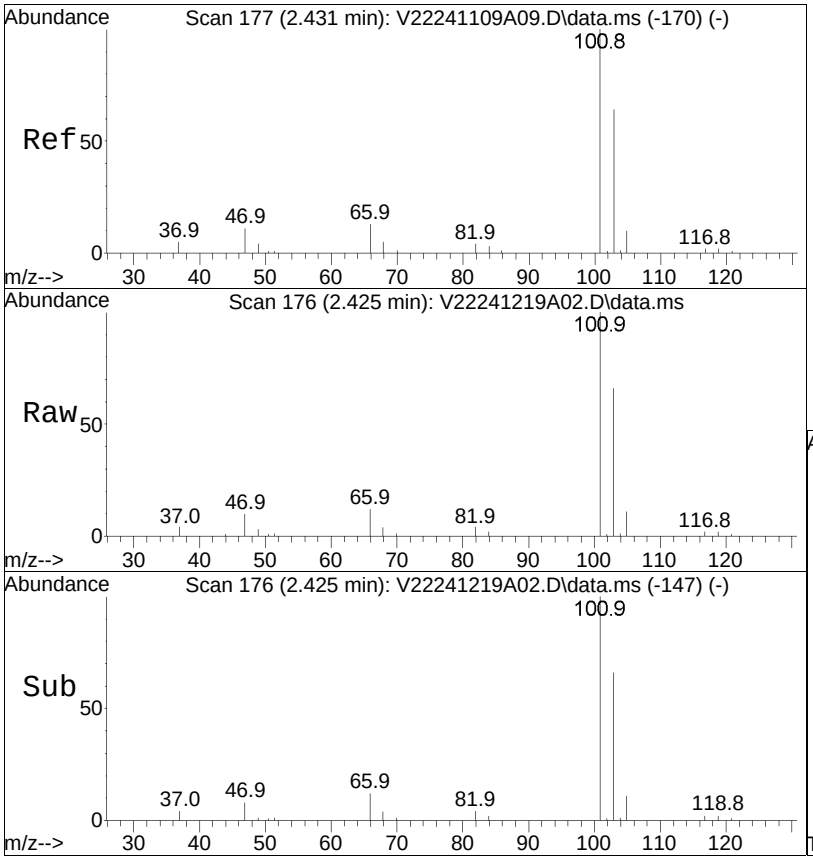


#6
Chloroethane
Concen: 6.57 ug/L
RT: 2.287 min Scan# 155
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion: 64 Resp: 57581

Ion	Ratio	Lower	Upper
64	100		
66	32.7	12.2	52.2

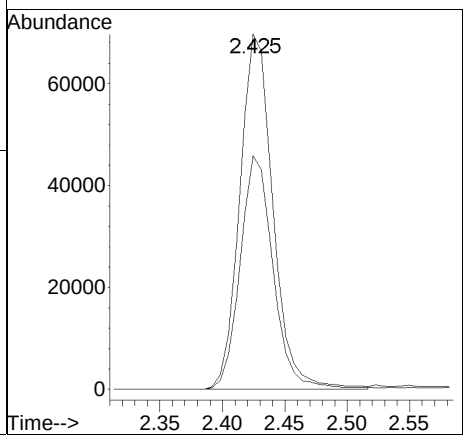


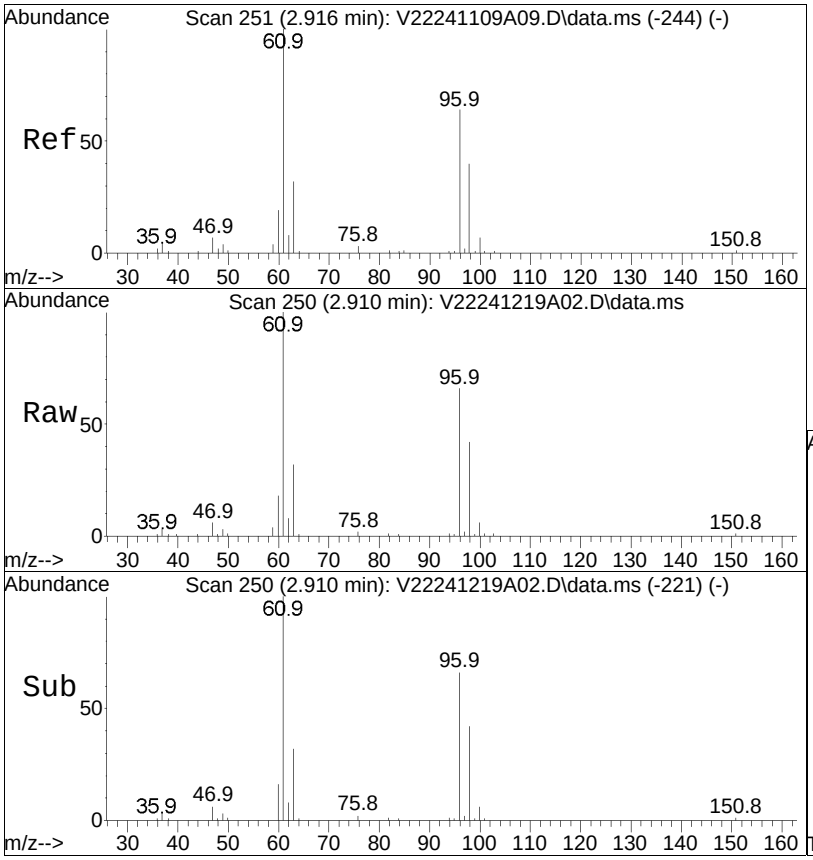


#7
Trichlorofluoromethane
Concen: 8.82 ug/L
RT: 2.425 min Scan# 176
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion:101 Resp: 129095

Ion	Ratio	Lower	Upper
101	100		
103	65.6	51.6	77.4

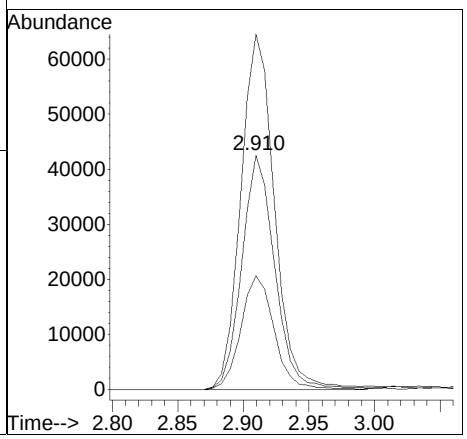


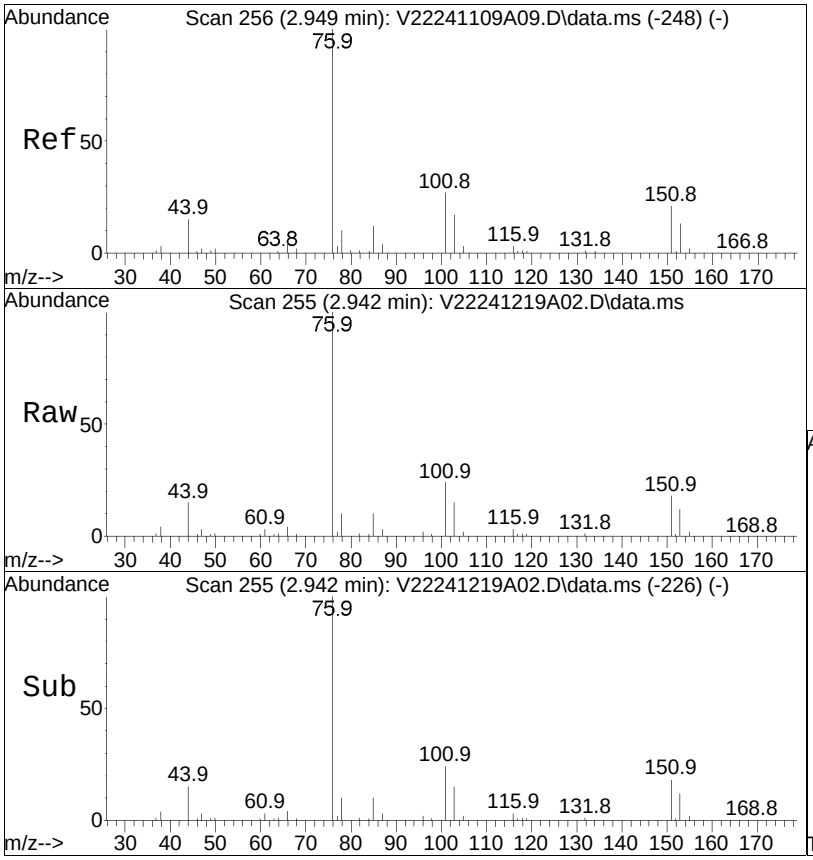


#10
1,1-Dichloroethene
Concen: 9.63 ug/L
RT: 2.910 min Scan# 250
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion: 96 Resp: 74388

Ion	Ratio	Lower	Upper
96	100		
61	155.9	117.0	175.4
63	48.9	37.8	56.6

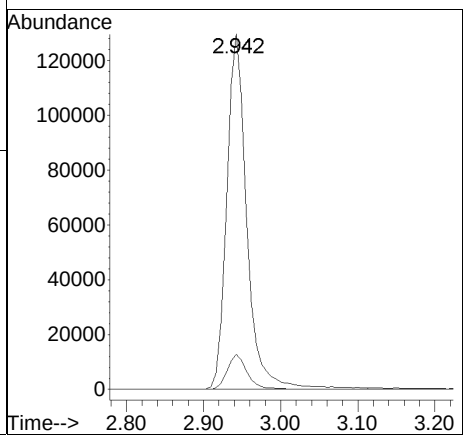


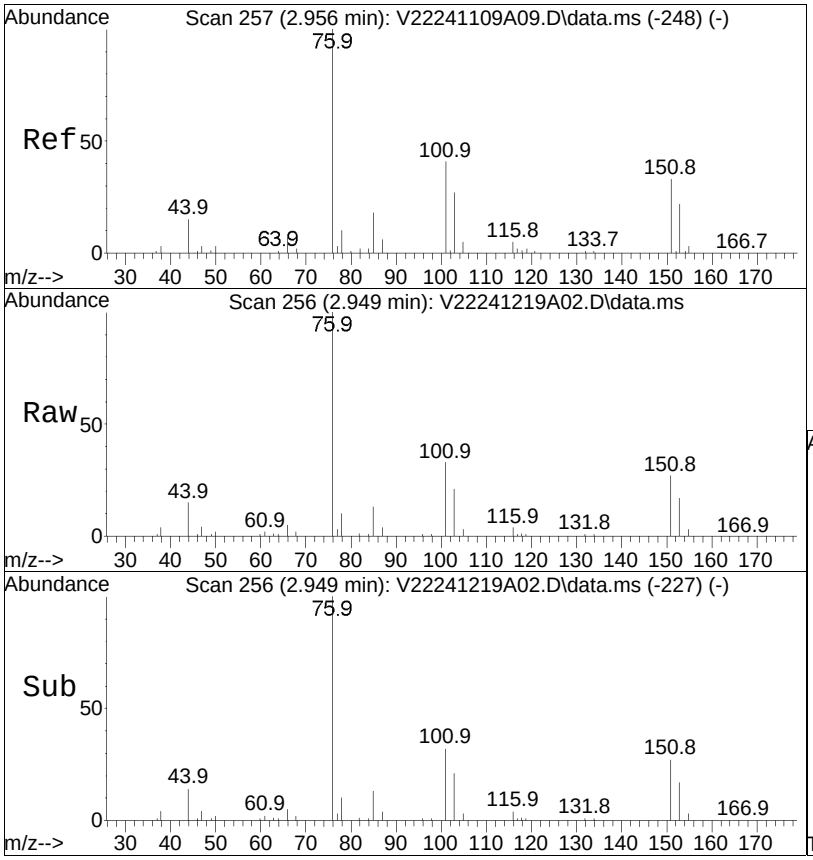


#11
Carbon disulfide
Concen: 10.04 ug/L
RT: 2.942 min Scan# 255
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion: 76 Resp: 235706

Ion	Ratio	Lower	Upper
76	100		
78	9.8	6.4	13.4

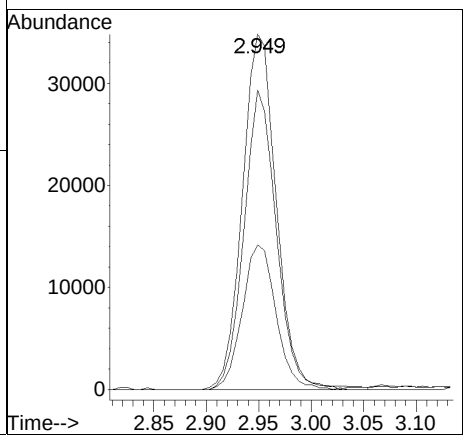


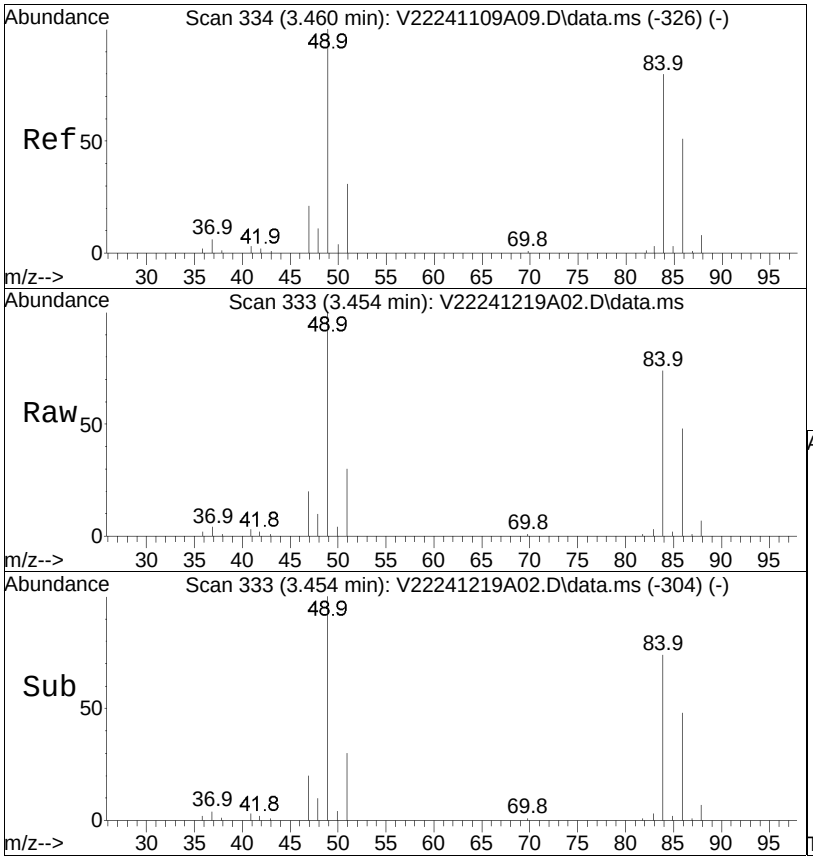


#12
Freon-113
Concen: 9.66 ug/L
RT: 2.949 min Scan# 256
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion:101 Resp: 78477

Ion	Ratio	Lower	Upper
101	100		
151	80.0	68.5	102.7
85	40.5	33.1	49.7

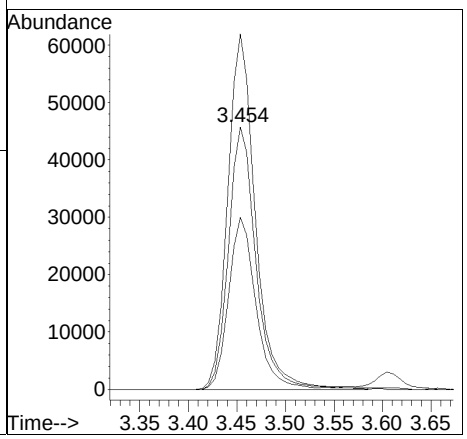


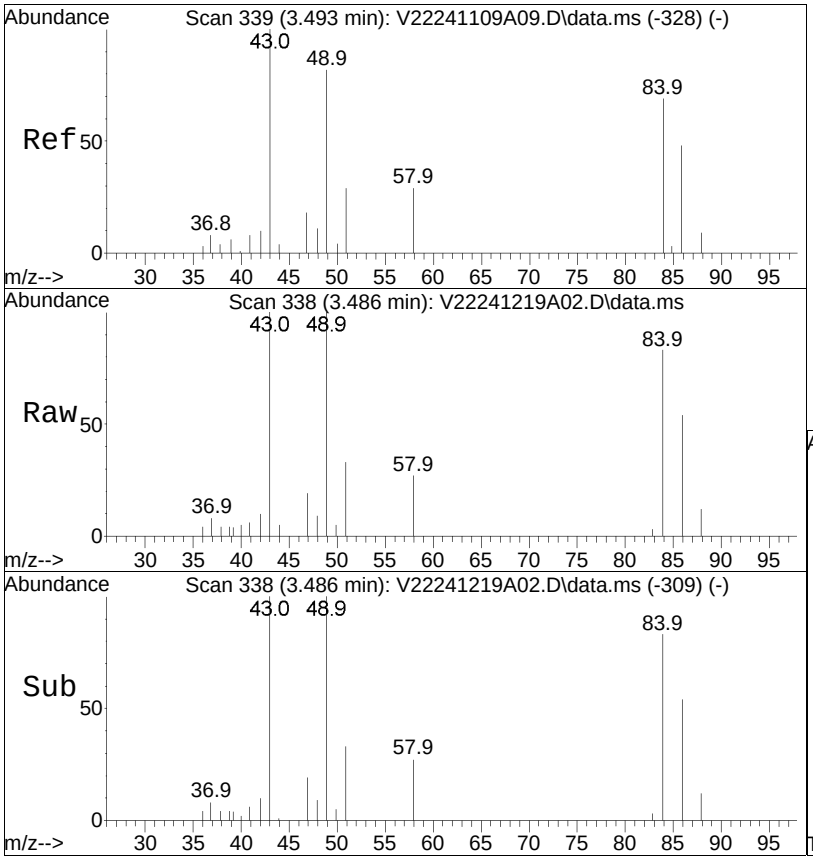


#15
Methylene chloride
Concen: 9.99 ug/L
RT: 3.454 min Scan# 333
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion: 84 Resp: 90722

Ion	Ratio	Lower	Upper
84	100		
86	64.7	41.5	86.3
49	134.7	68.8	143.0

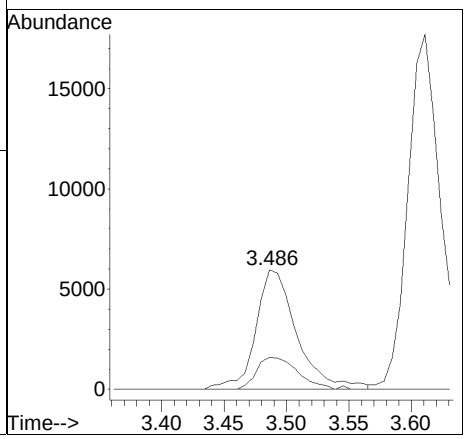


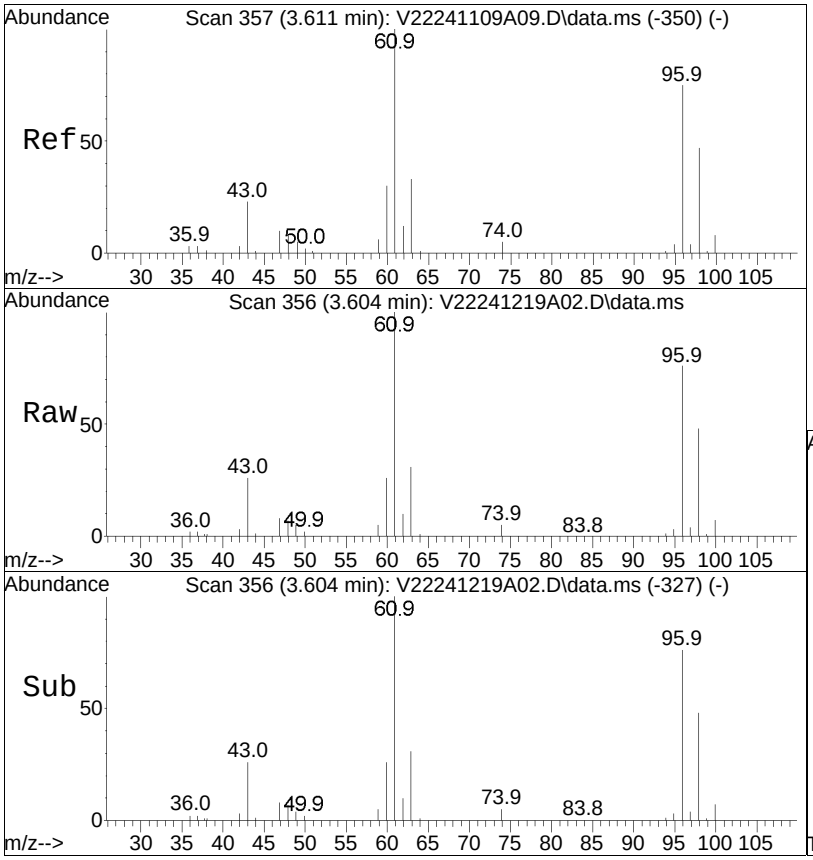


#17
Acetone
Concen: 10.50 ug/L
RT: 3.486 min Scan# 338
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion: 43 Resp: 13722

Ion	Ratio	Lower	Upper
43	100		
58	27.1	23.1	34.7

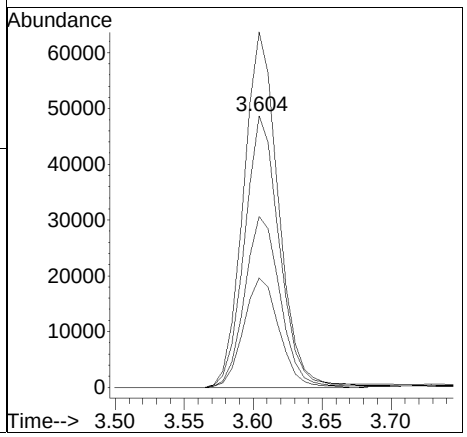


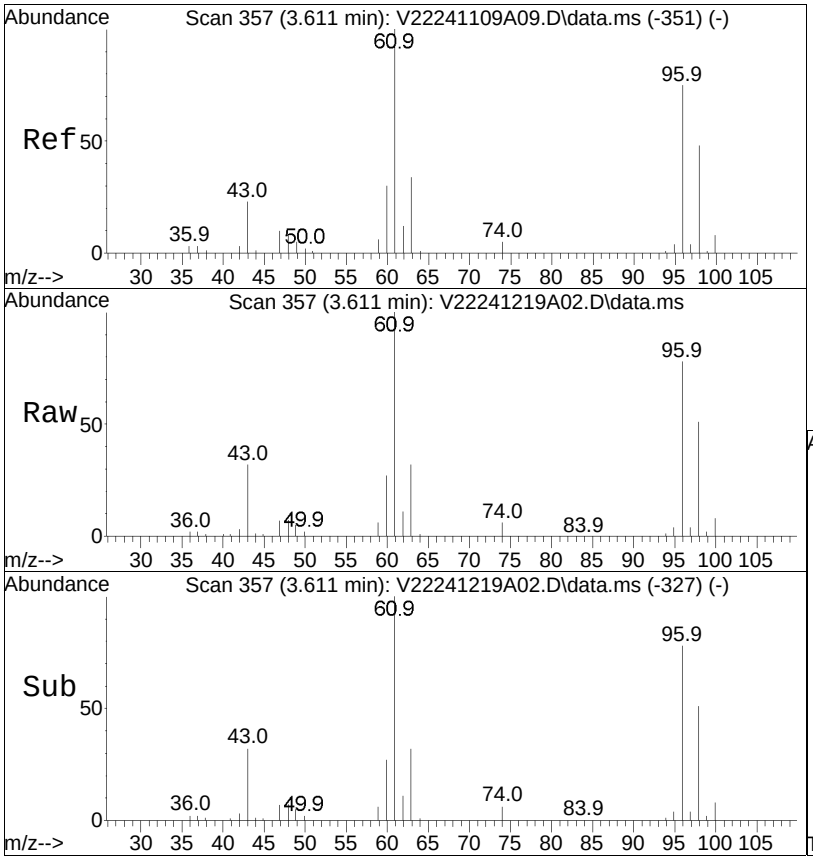


#18
trans-1,2-Dichloroethene
Concen: 10.13 ug/L
RT: 3.604 min Scan# 356
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion: 96 Resp: 85895

Ion	Ratio	Lower	Upper
96	100		
61	132.1	81.6	169.6
98	64.2	41.8	86.8
63	41.0	26.3	54.7

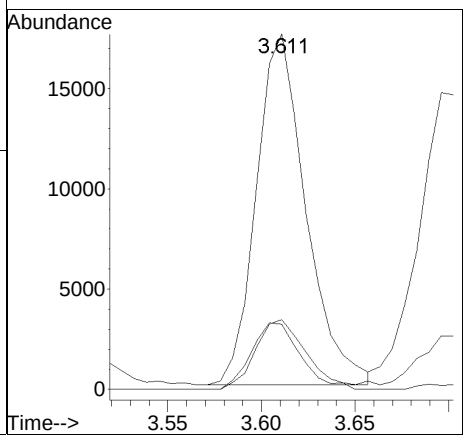


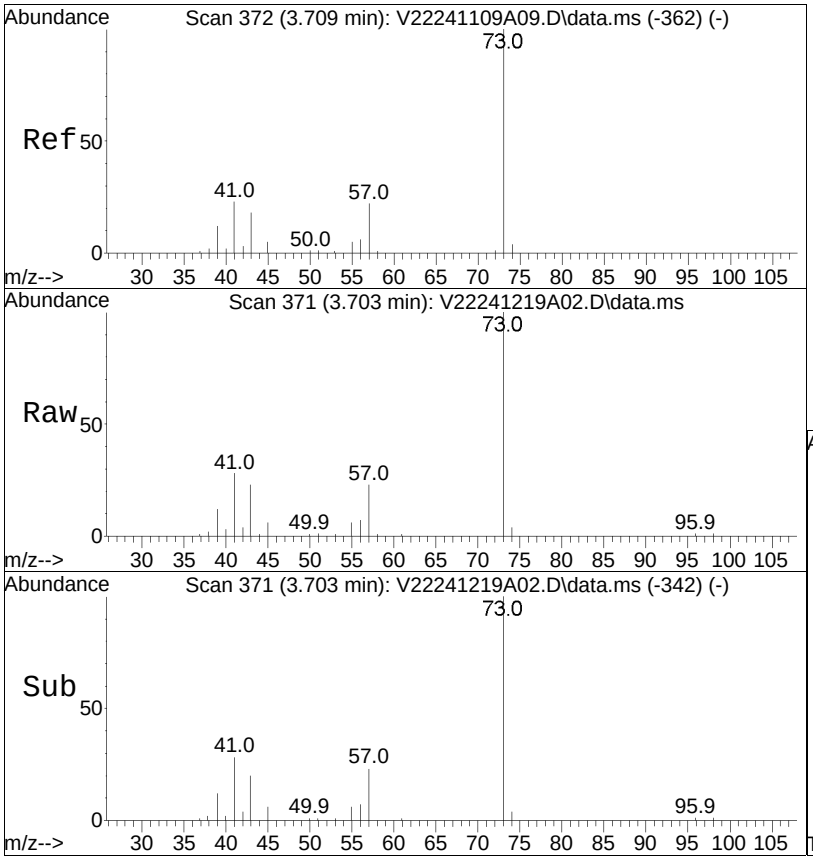


#19
Methyl acetate
Concen: 10.13 ug/L
RT: 3.611 min Scan# 357
Delta R.T. -0.000 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion: 43 Resp: 32169

Ion	Ratio	Lower	Upper
43	100		
74	20.4	21.8	32.6#
59	18.8	18.1	27.1

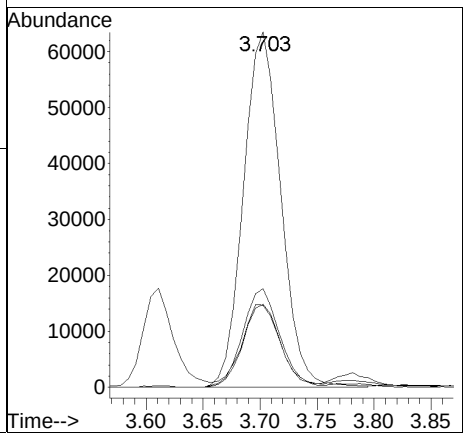


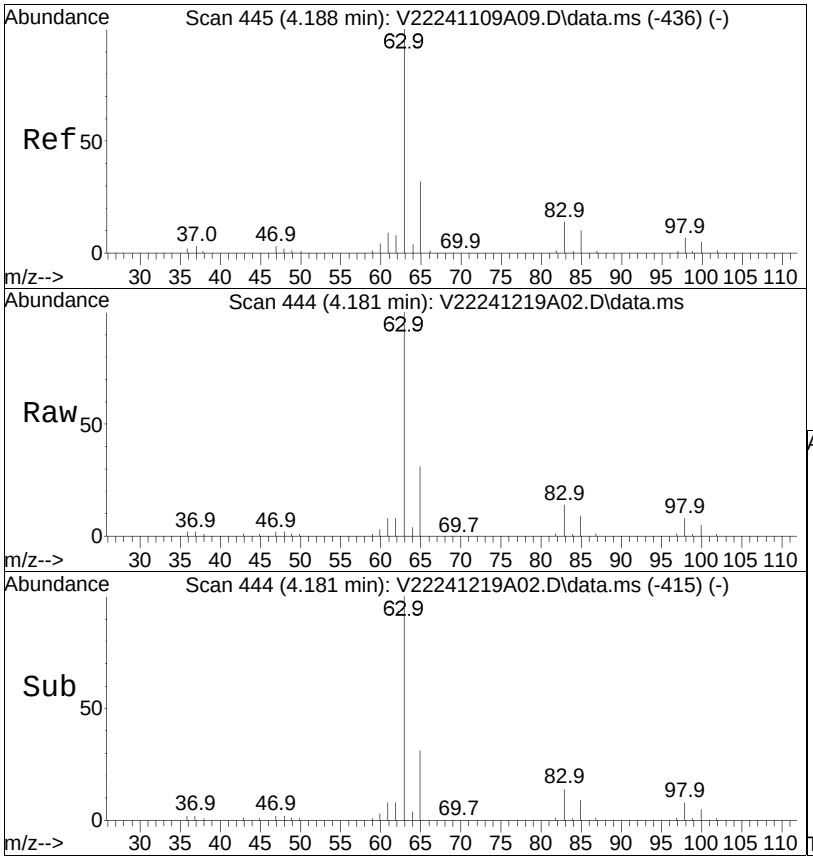


#21
Methyl tert-butyl ether
Concen: 9.75 ug/L
RT: 3.703 min Scan# 371
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion: 73 Resp: 145014

Ion	Ratio	Lower	Upper
73	100		
57	23.5	13.6	28.2
43	23.3	12.7	26.5
41	27.5	11.4	23.8#

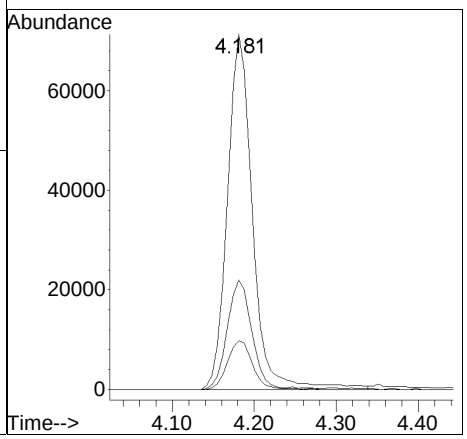


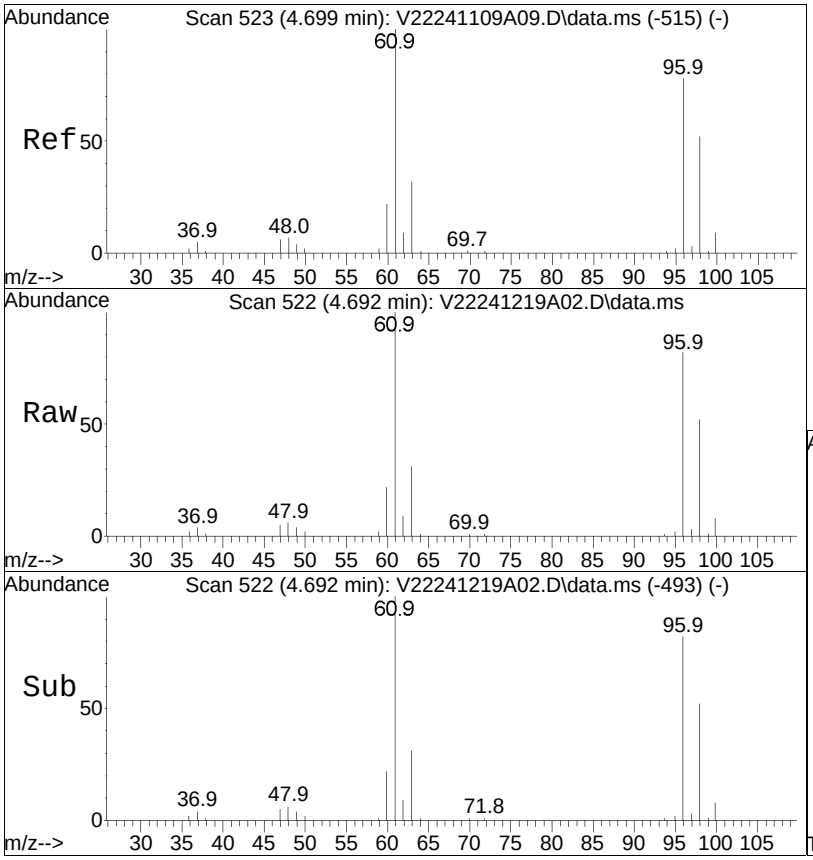


#25
1,1-Dichloroethane
Concen: 9.91 ug/L
RT: 4.181 min Scan# 444
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion: 63 Resp: 152233

Ion	Ratio	Lower	Upper
63	100		
65	29.9	11.9	51.9
83	13.6	0.0	34.2

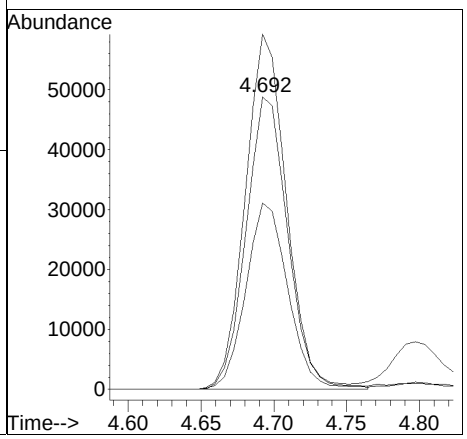


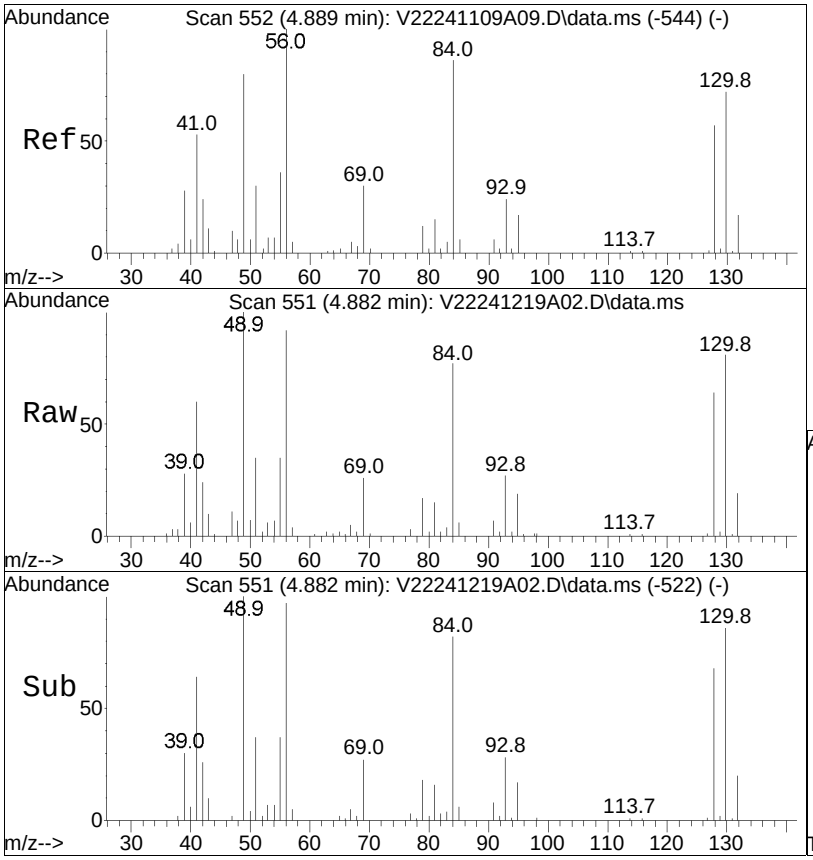


#30
cis-1,2-Dichloroethene
Concen: 10.36 ug/L
RT: 4.692 min Scan# 522
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion: 96 Resp: 97220

Ion	Ratio	Lower	Upper
96	100		
61	119.6	90.3	135.5
98	64.5	50.8	76.2

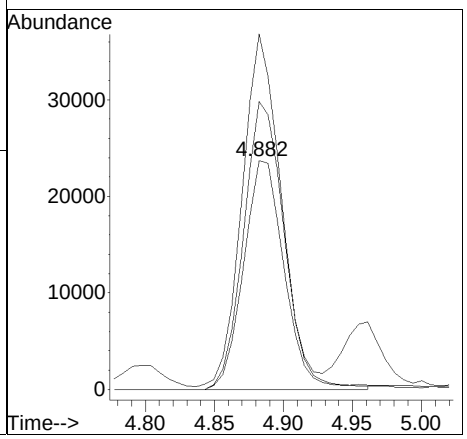


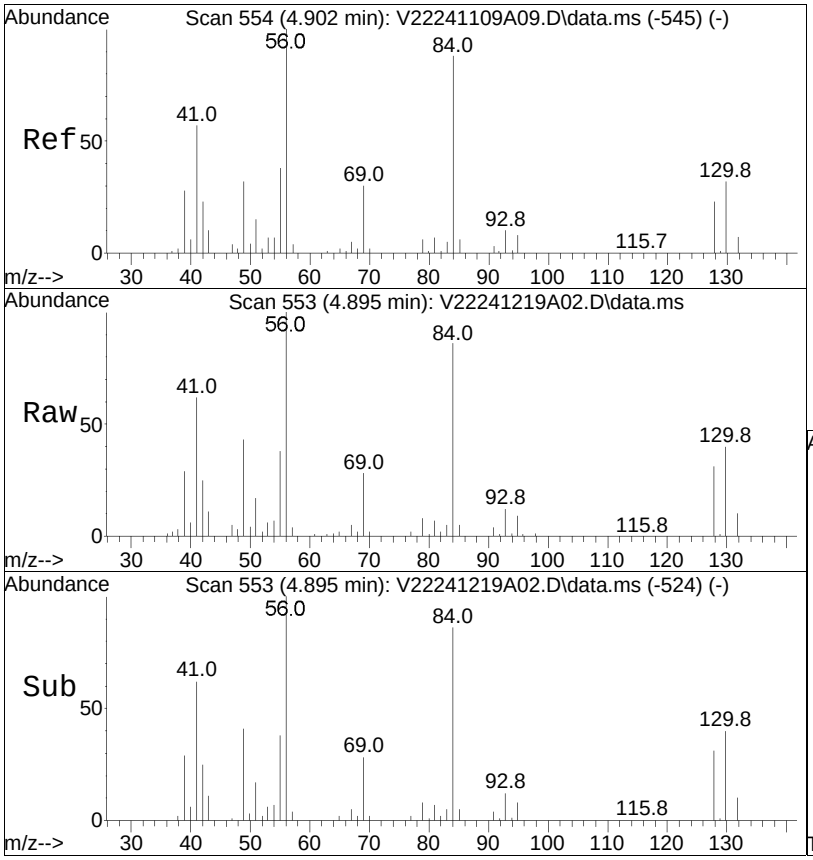


#32
Bromochloromethane
Concen: 10.32 ug/L
RT: 4.882 min Scan# 551
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion:128 Resp: 48702

Ion	Ratio	Lower	Upper
128	100		
49	148.0	104.4	156.6
130	126.5	103.9	155.9

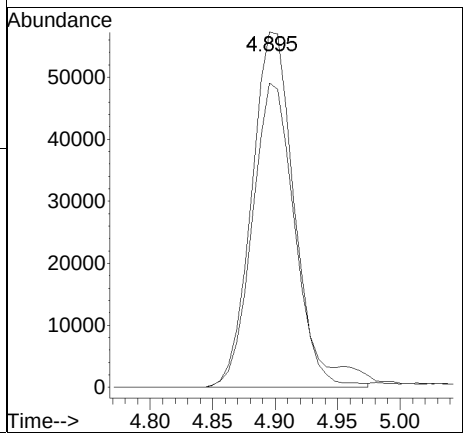


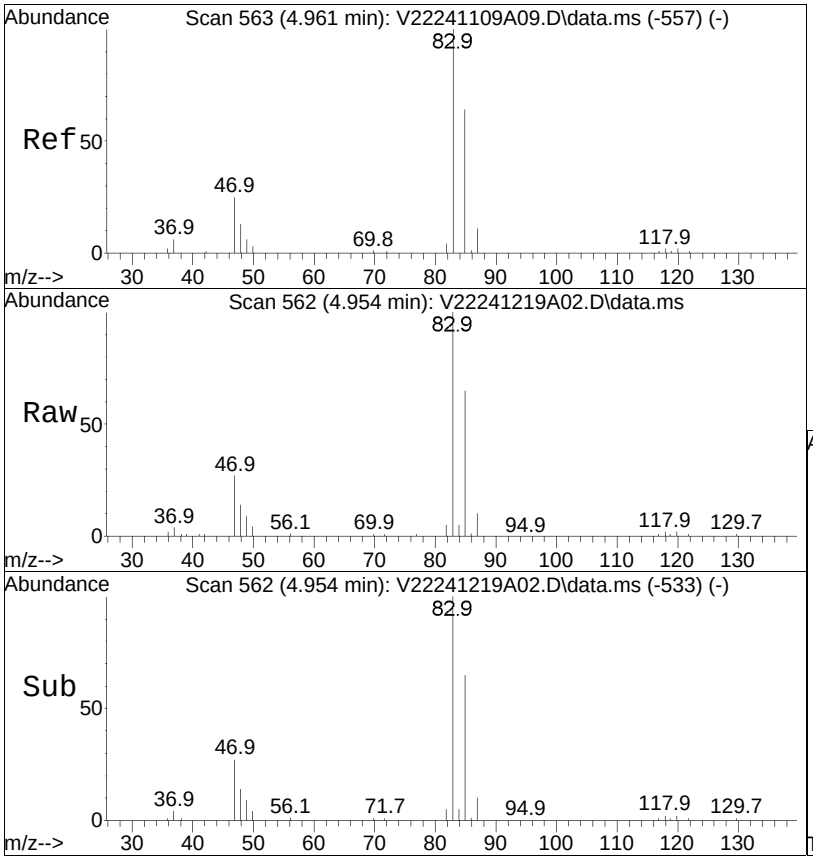


#33
Cyclohexane
Concen: 9.19 ug/L
RT: 4.895 min Scan# 553
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion: 56 Resp: 134363

Ion	Ratio	Lower	Upper
56	100		
84	91.0	66.0	137.2

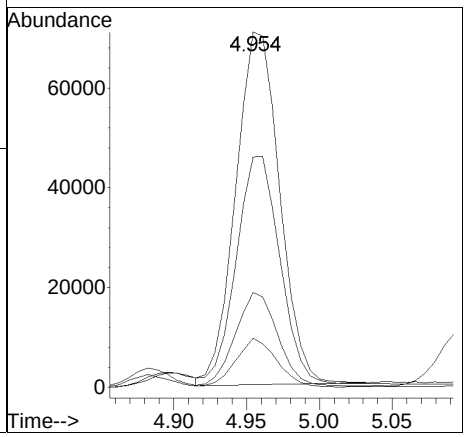


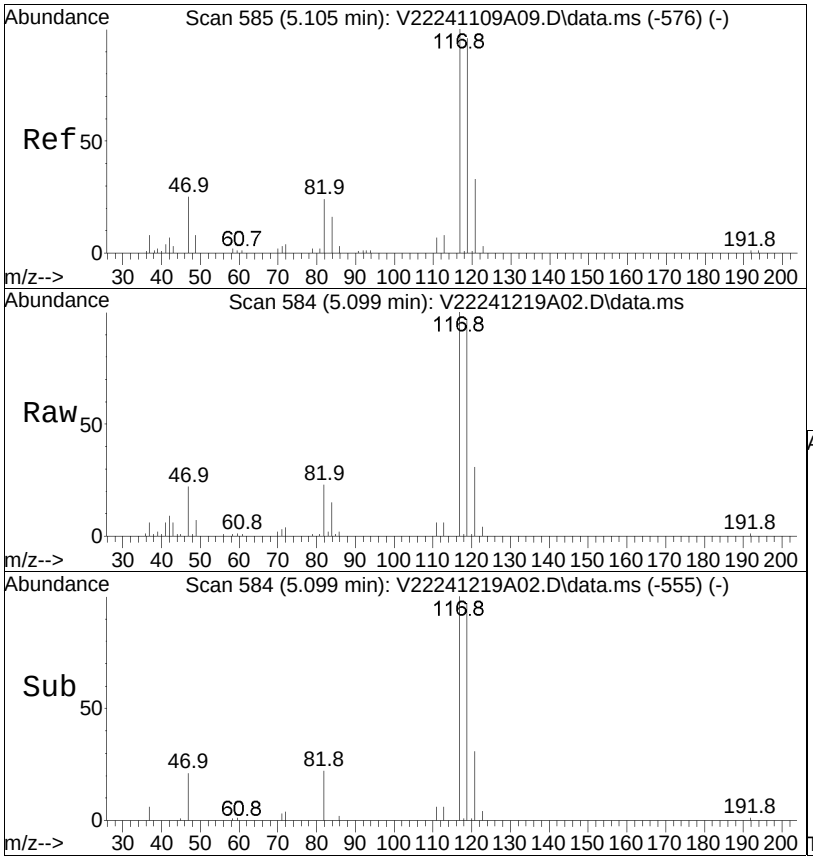


#34
Chloroform
Concen: 9.69 ug/L
RT: 4.954 min Scan# 562
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion: 83 Resp: 148711

Ion	Ratio	Lower	Upper
83	100		
85	64.4	42.4	88.2
47	25.3	14.0	29.0
48	13.2	6.9	14.3

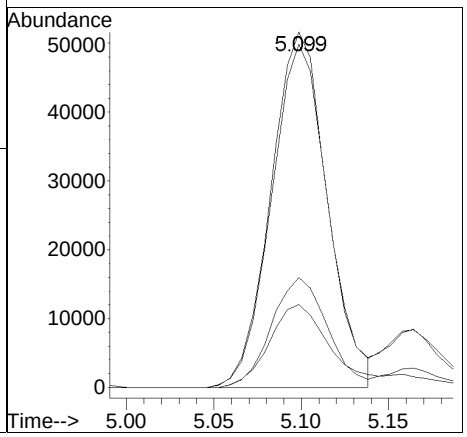


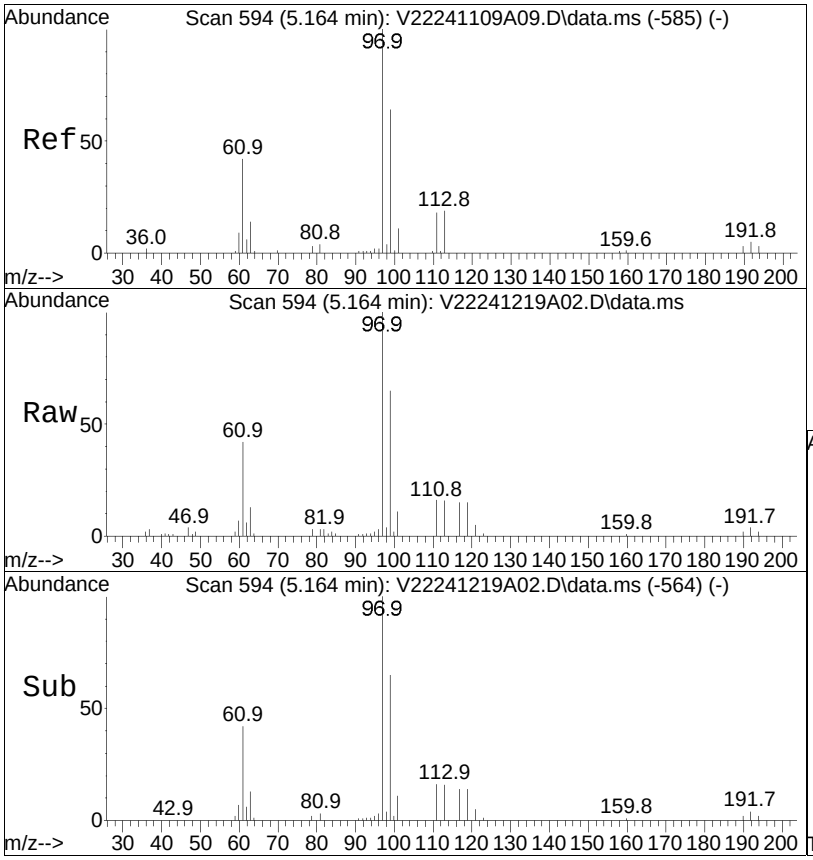


#36
Carbon tetrachloride
Concen: 9.34 ug/L
RT: 5.099 min Scan# 584
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion:117 Resp: 116003

Ion	Ratio	Lower	Upper
117	100		
119	96.4	62.1	129.1
121	30.6	20.3	42.3
82	25.1	15.4	32.0

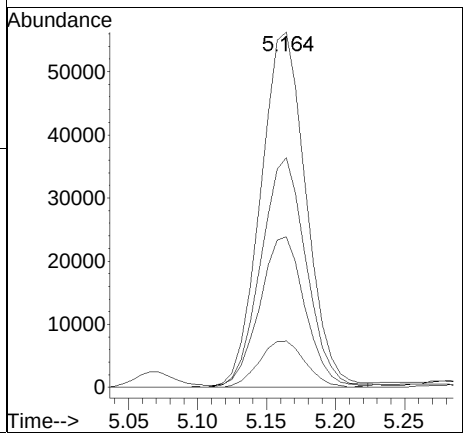


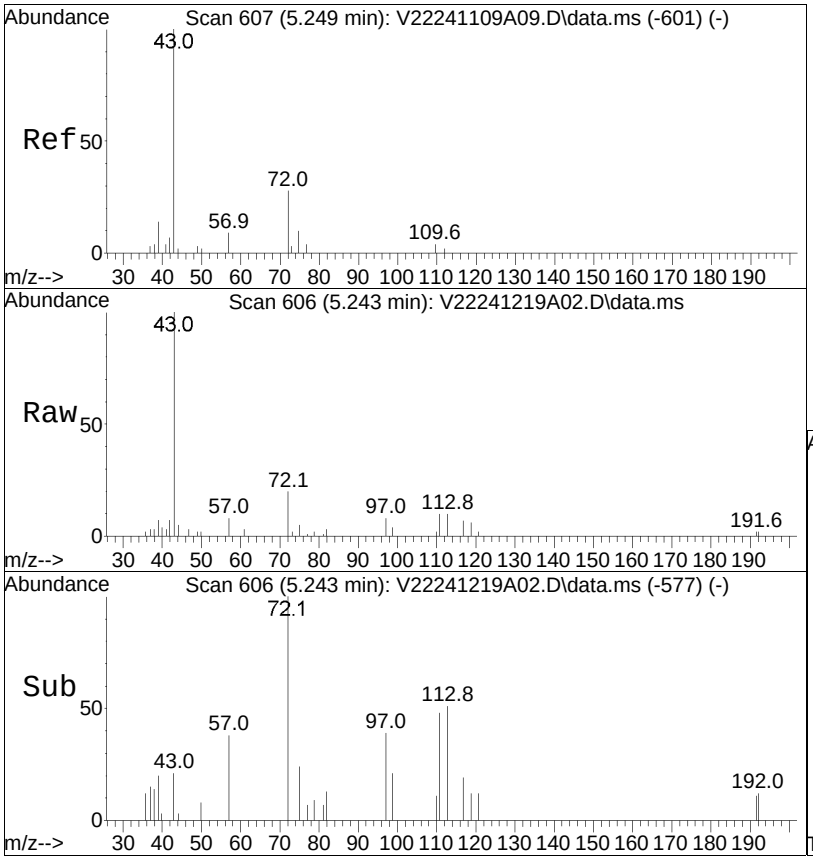


#39
1,1,1-Trichloroethane
Concen: 9.25 ug/L
RT: 5.164 min Scan# 594
Delta R.T. -0.000 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion: 97 Resp: 129461

Ion	Ratio	Lower	Upper
97	100		
99	64.7	42.4	88.0
61	42.1	26.0	54.0
63	13.3	8.3	17.3

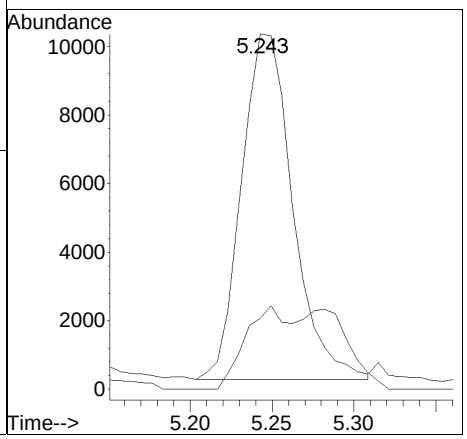


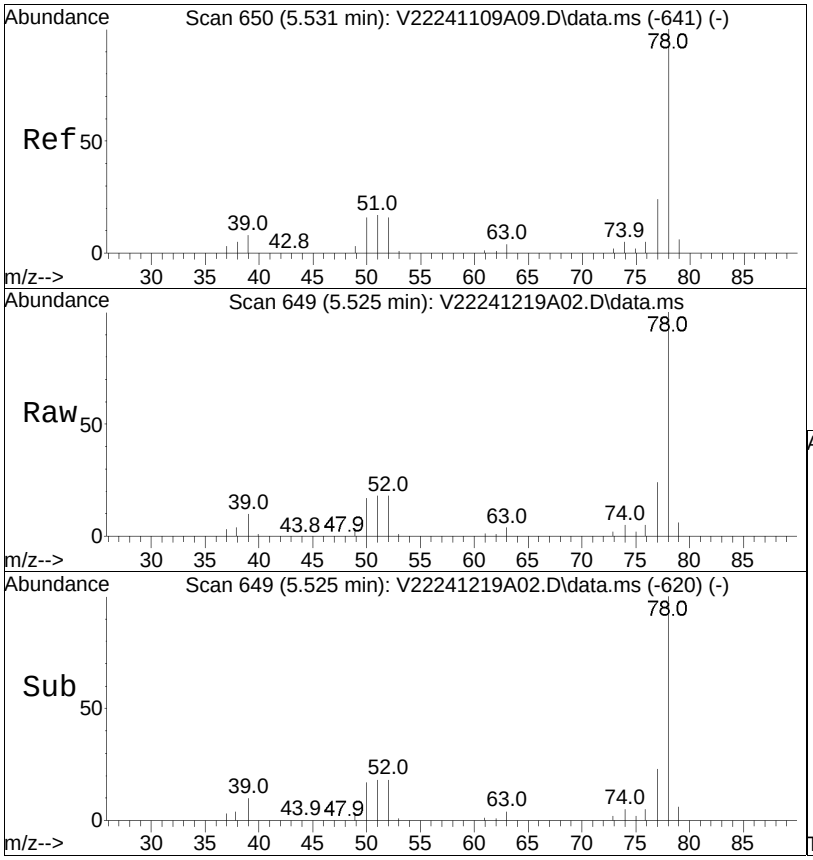


#41
2-Butanone
Concen: 11.82 ug/L
RT: 5.243 min Scan# 606
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion: 43 Resp: 21949

Ion	Ratio	Lower	Upper
43	100		
72	21.1	45.8	68.8#

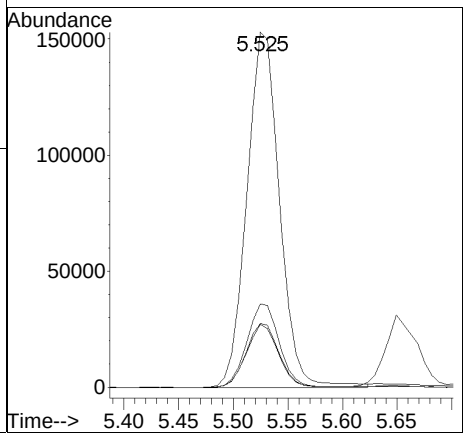


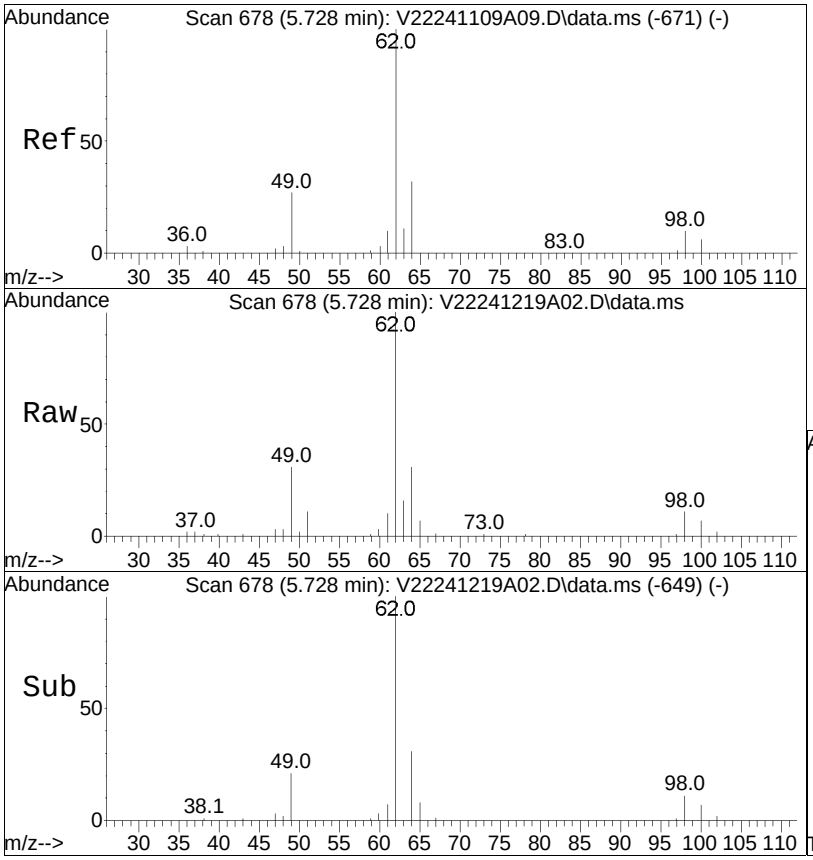


#44
Benzene
Concen: 9.55 ug/L
RT: 5.525 min Scan# 649
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion: 78 Resp: 318814

Ion	Ratio	Lower	Upper
78	100		
77	23.3	15.4	32.0
51	18.1	9.8	20.4
52	17.3	9.2	19.2

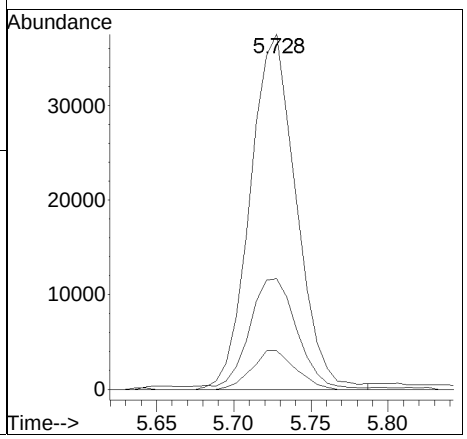


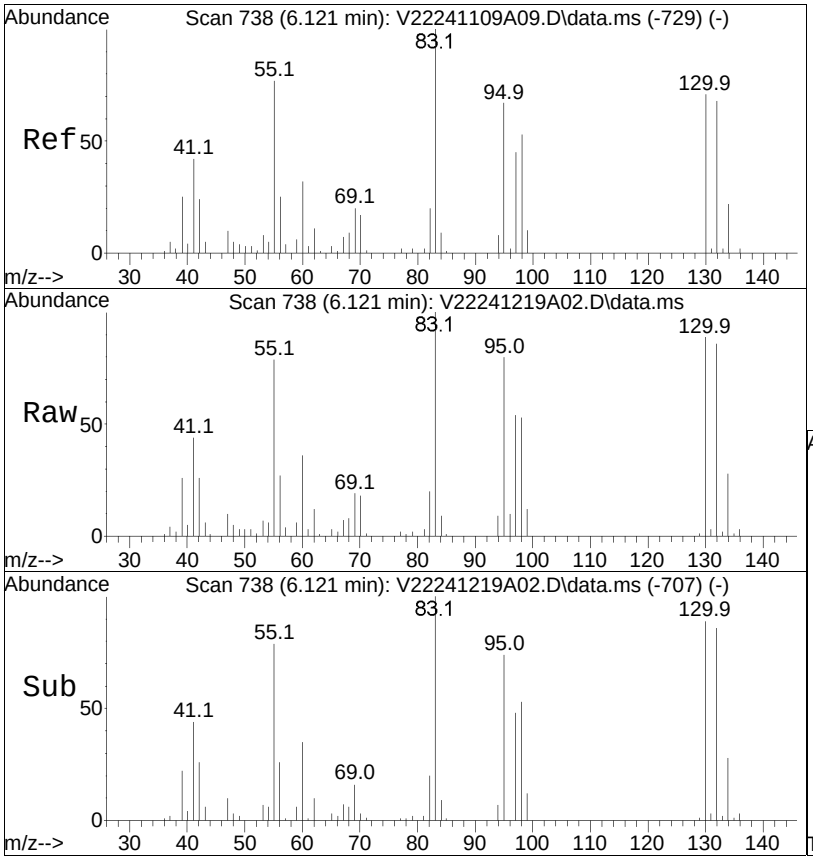


#47
1,2-Dichloroethane
Concen: 9.59 ug/L
RT: 5.728 min Scan# 678
Delta R.T. -0.000 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion: 62 Resp: 77813

Ion	Ratio	Lower	Upper
62	100		
64	36.3	12.3	52.3
98	10.4	0.0	30.3

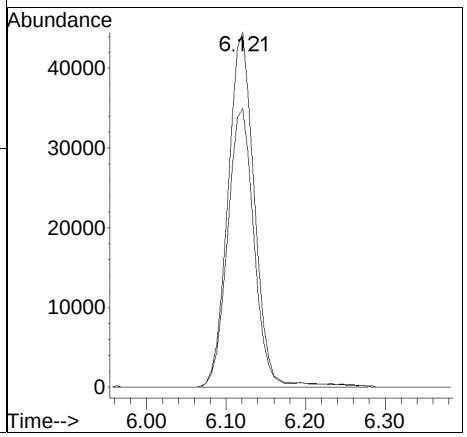


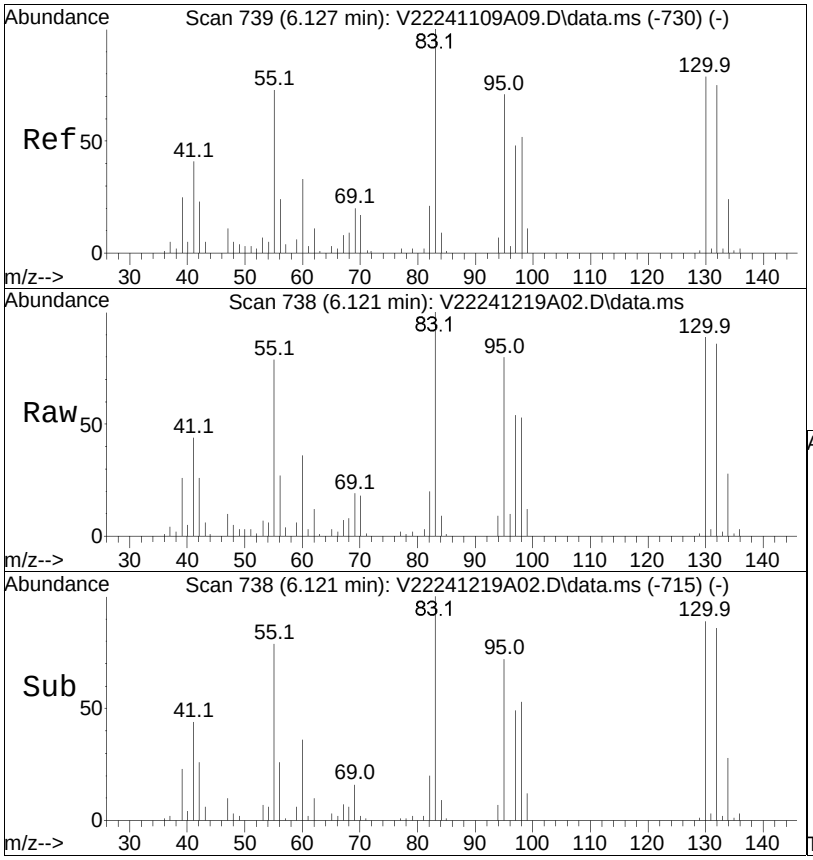


#50
Methyl cyclohexane
Concen: 8.50 ug/L
RT: 6.121 min Scan# 738
Delta R.T. -0.000 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion: 83 Resp: 103999

Ion	Ratio	Lower	Upper
83	100		
55	77.2	55.4	83.2

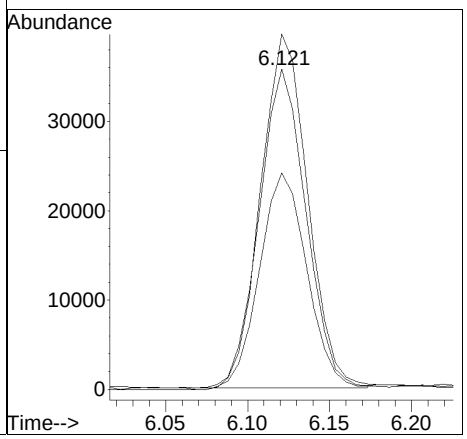


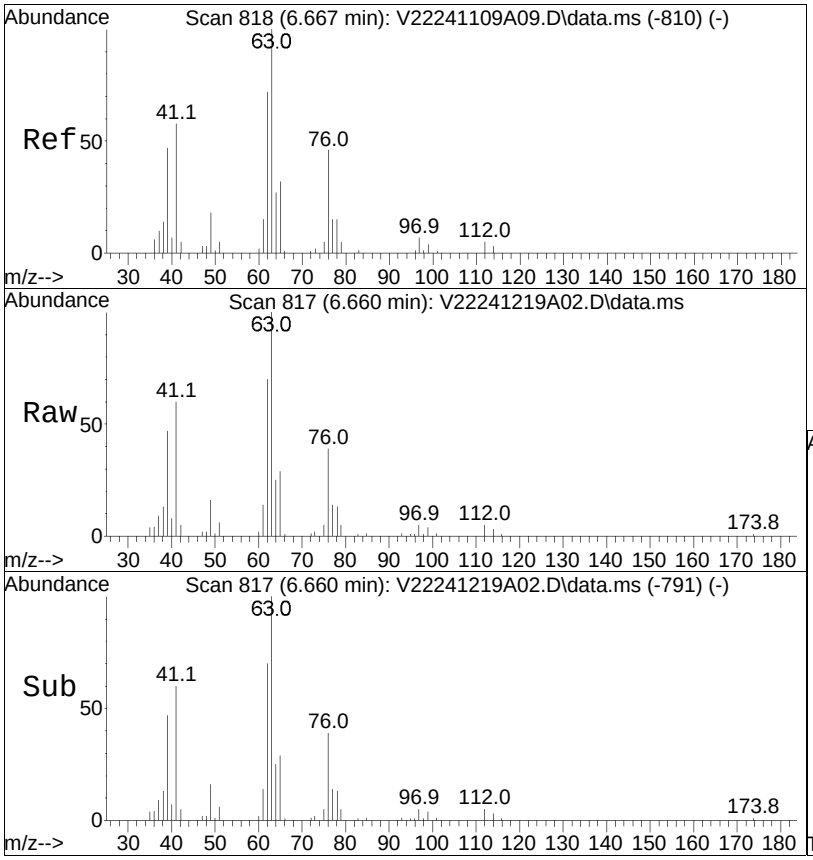


#51
Trichloroethene
Concen: 9.10 ug/L
RT: 6.121 min Scan# 738
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion: 95 Resp: 70714

Ion	Ratio	Lower	Upper
95	100		
97	69.9	55.0	82.4
130	114.0	89.2	133.8

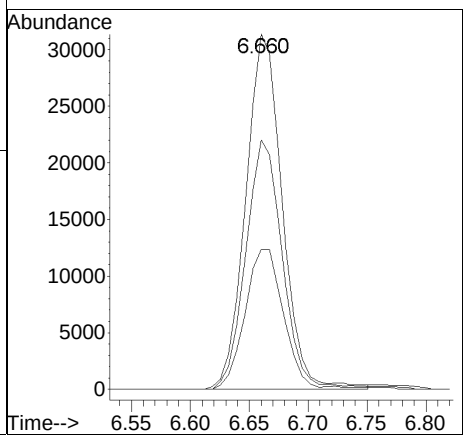


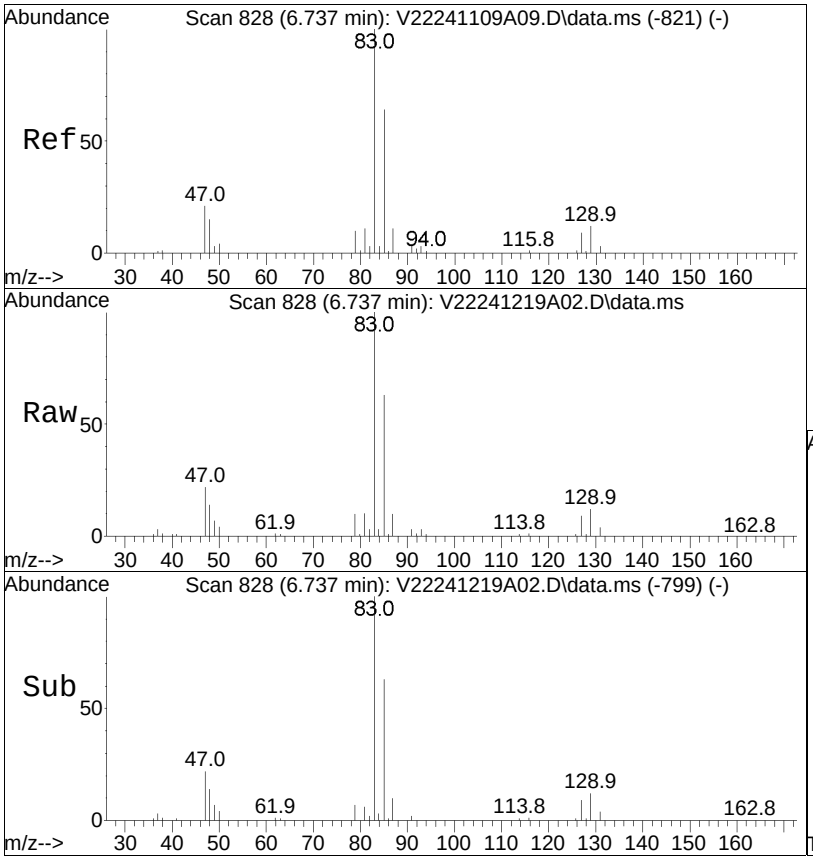


#54
1,2-Dichloropropane
Concen: 10.09 ug/L
RT: 6.660 min Scan# 817
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion: 63 Resp: 67758

Ion	Ratio	Lower	Upper
63	100		
62	71.2	56.9	85.3
76	41.3	35.8	53.8

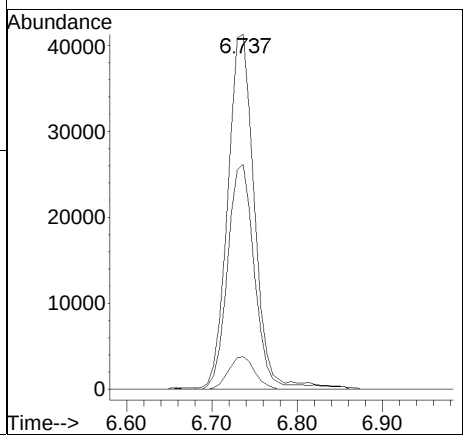


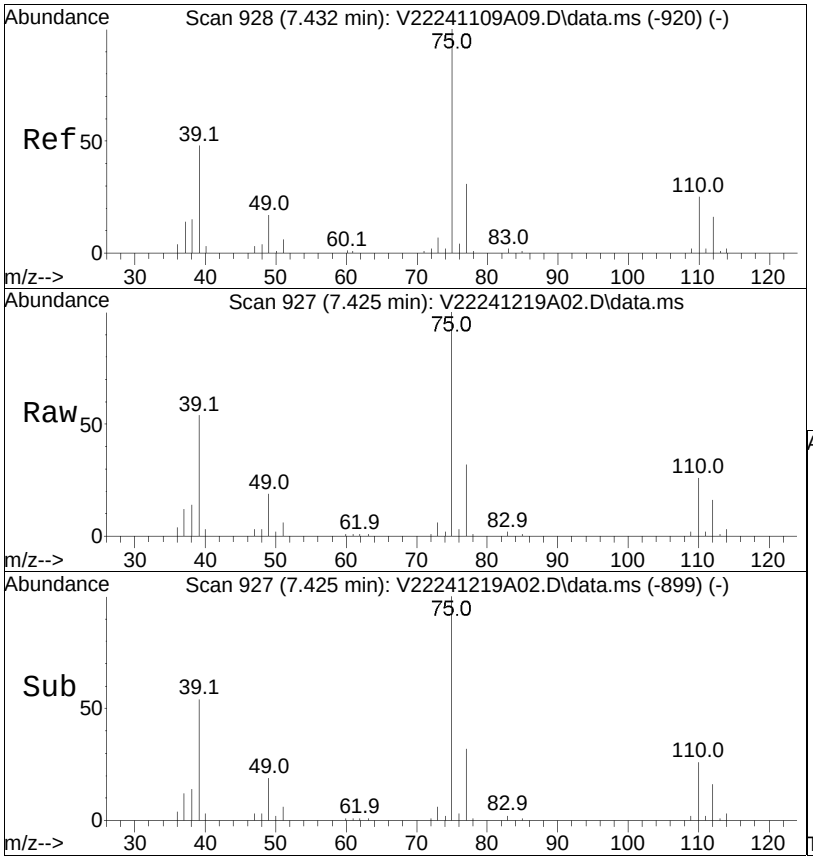


#57
Bromodichloromethane
Concen: 9.74 ug/L
RT: 6.737 min Scan# 828
Delta R.T. -0.000 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion: 83 Resp: 90793

Ion	Ratio	Lower	Upper
83	100		
85	62.6	51.6	77.4
127	9.0	7.4	11.0

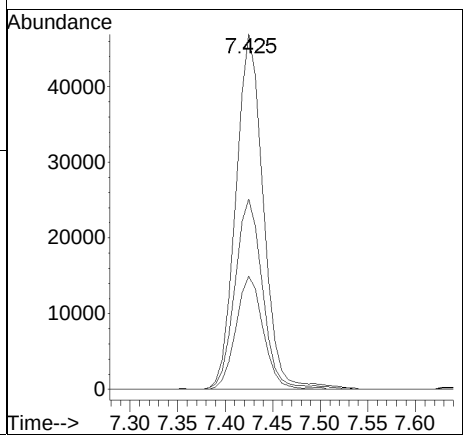


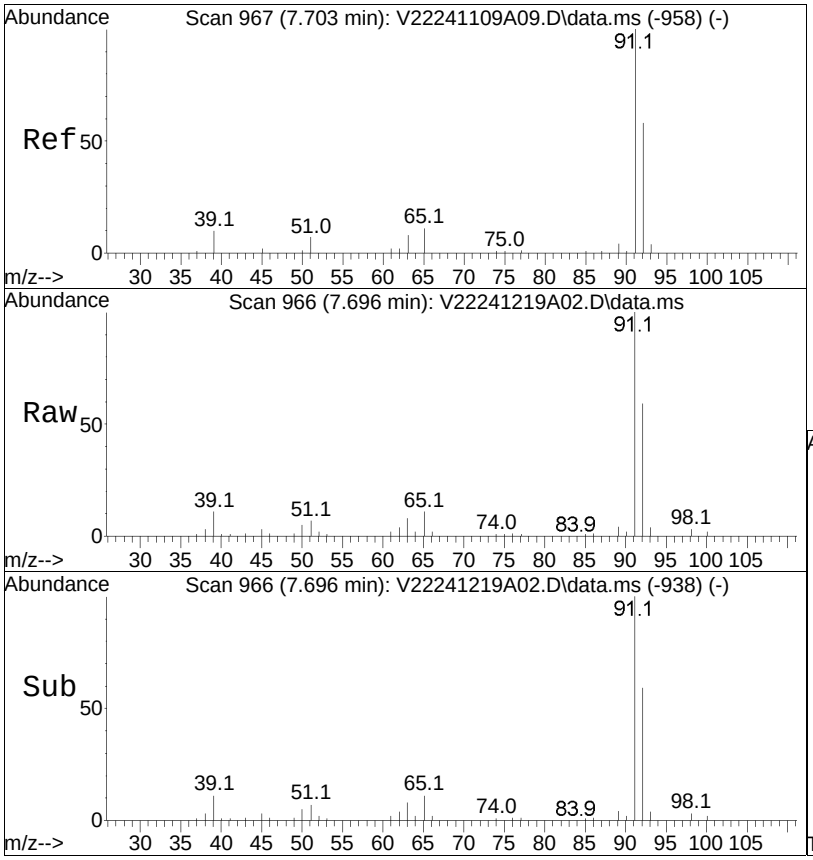


#61
cis-1,3-Dichloropropene
Concen: 9.77 ug/L
RT: 7.425 min Scan# 927
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion: 75 Resp: 94883

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.6	38.4
39	54.1	35.4	53.0#

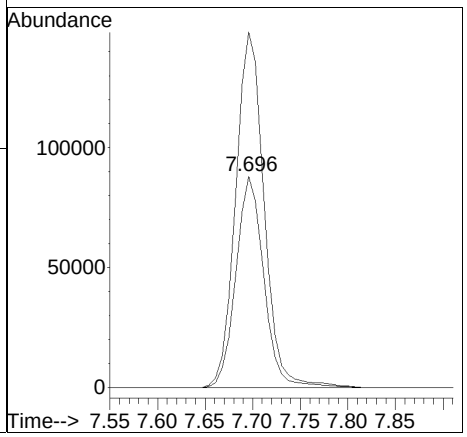


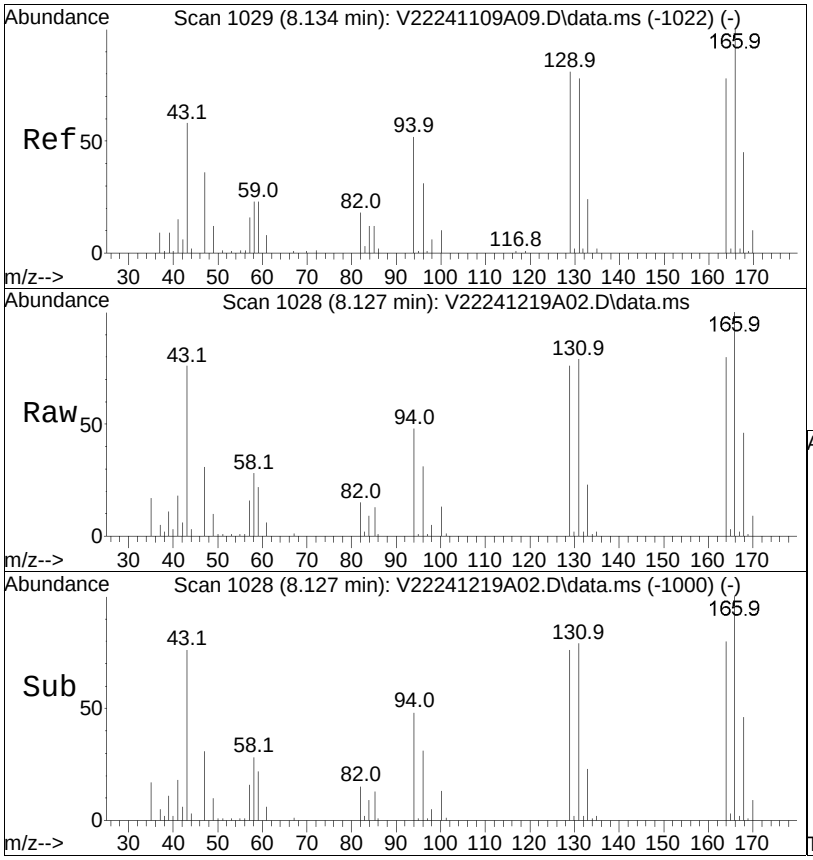


#64
Toluene
Concen: 9.88 ug/L
RT: 7.696 min Scan# 966
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion: 92 Resp: 179141

Ion	Ratio	Lower	Upper
92	100		
91	171.7	137.0	205.6

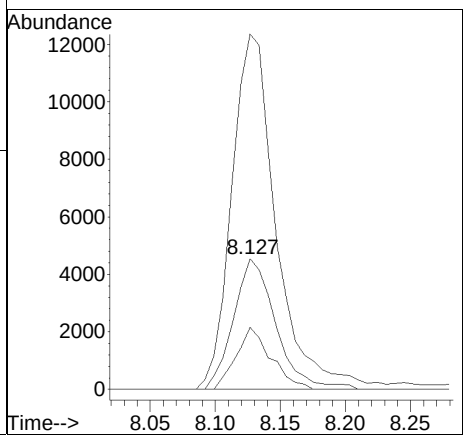


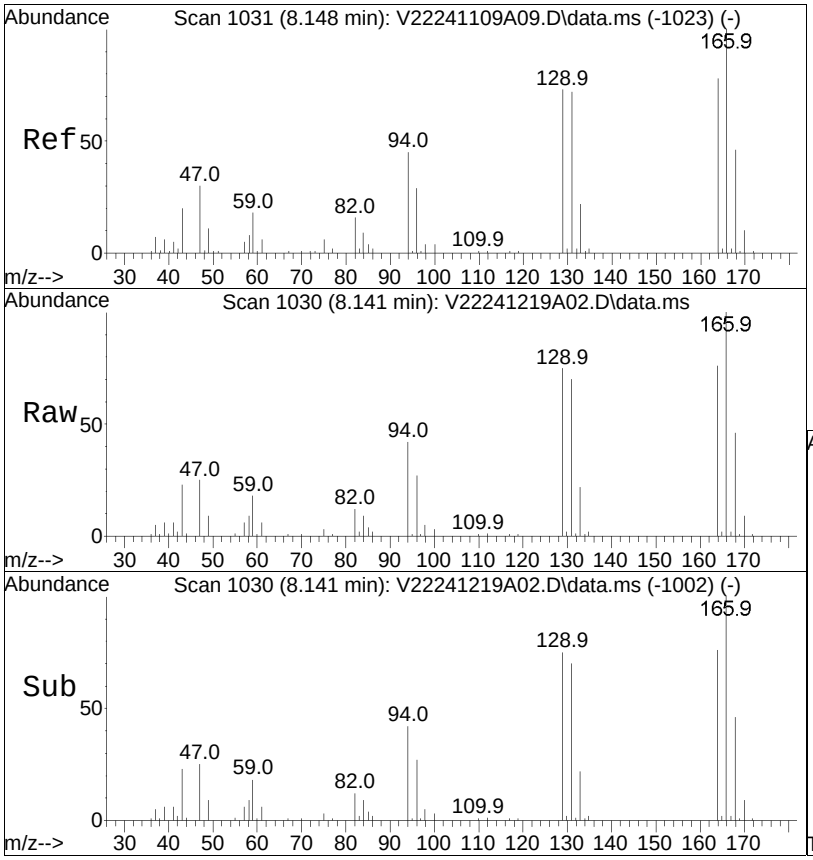


#65
4-Methyl-2-pentanone
Concen: 8.23 ug/L
RT: 8.127 min Scan# 1028
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion: 58 Resp: 10273

Ion	Ratio	Lower	Upper
58	100		
100	39.3	36.2	54.4
43	285.7	181.8	272.8#

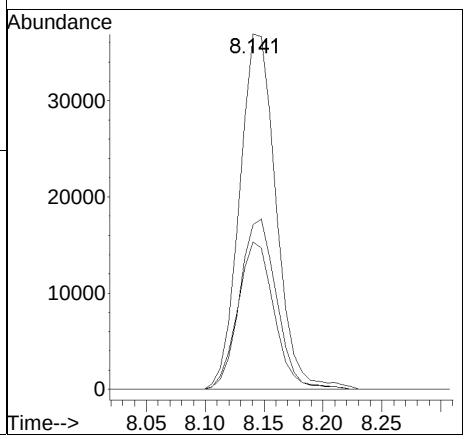


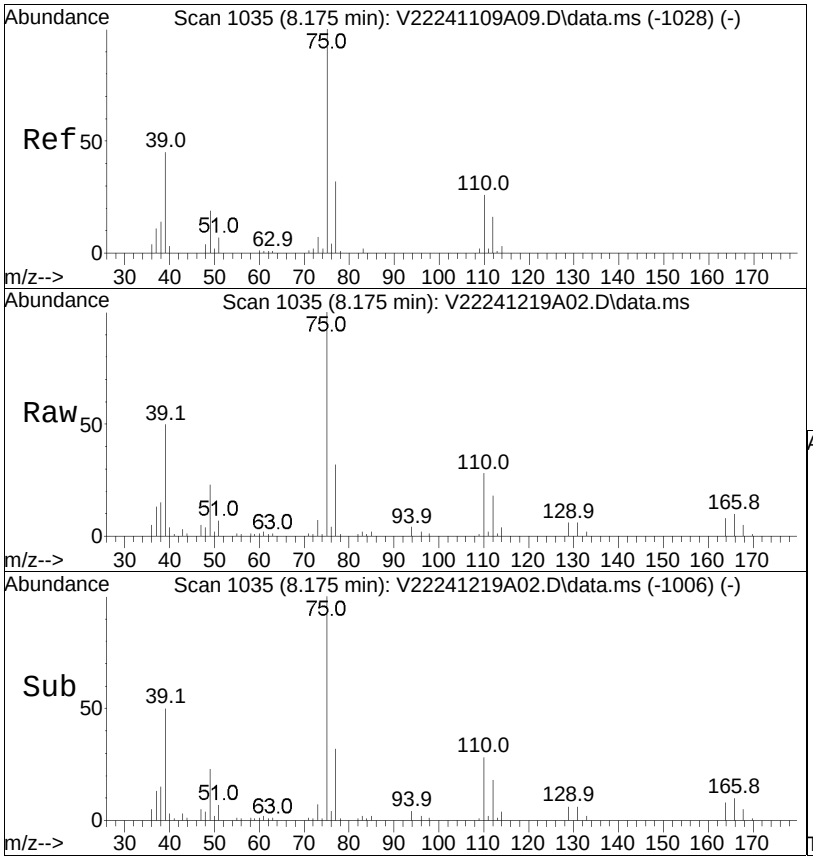


#66
Tetrachloroethene
Concen: 9.61 ug/L
RT: 8.141 min Scan# 1030
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion:166 Resp: 79848

Ion	Ratio	Lower	Upper
166	100		
168	48.1	27.8	67.8
94	41.6	16.7	56.7

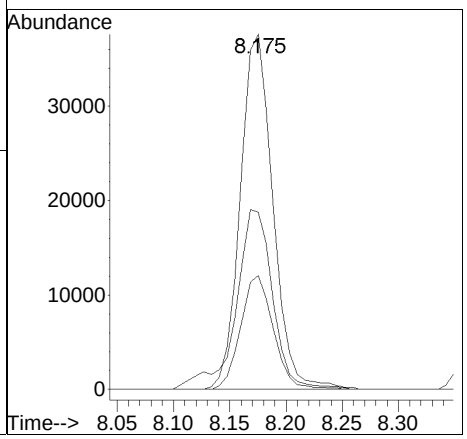


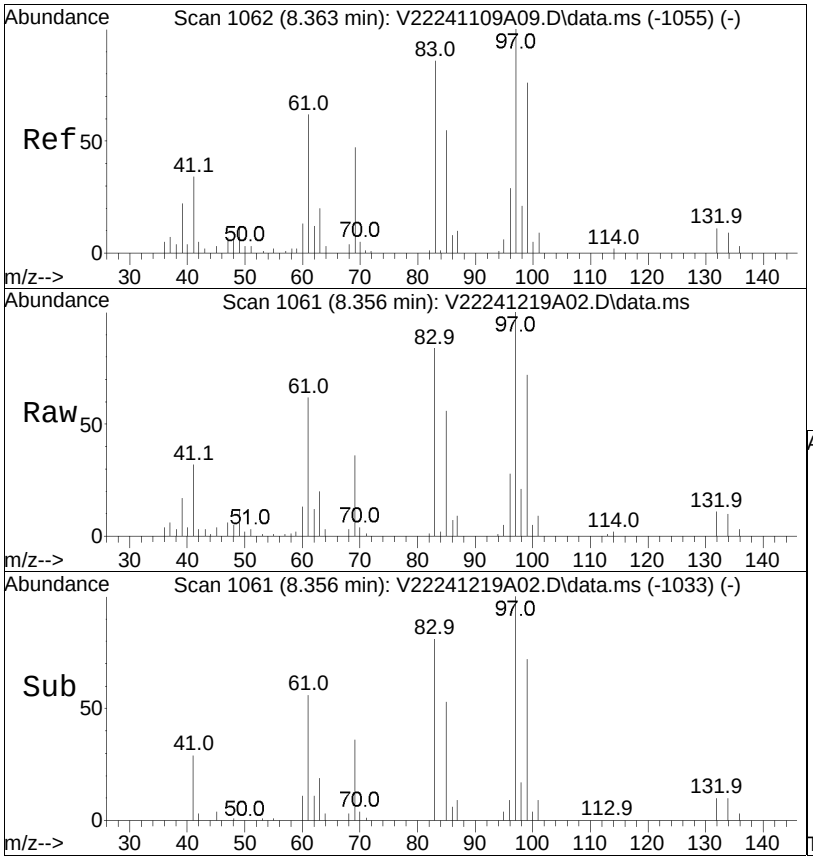


#68
trans-1,3-Dichloropropene
Concen: 9.18 ug/L
RT: 8.175 min Scan# 1035
Delta R.T. -0.000 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion: 75 Resp: 76042

Ion	Ratio	Lower	Upper
75	100		
77	32.2	11.9	51.9
39	57.0	27.4	67.4

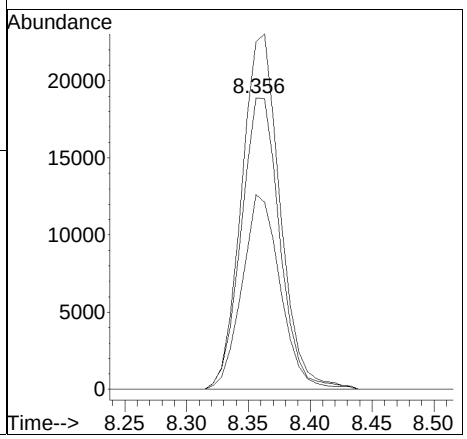


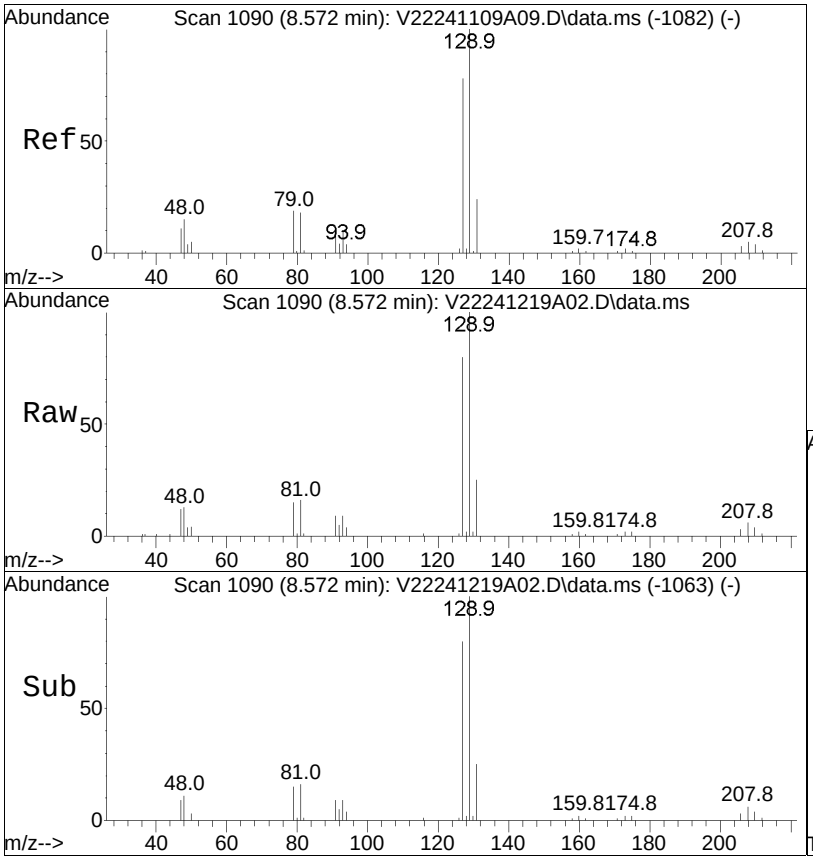


#71
1,1,2-Trichloroethane
Concen: 9.73 ug/L
RT: 8.356 min Scan# 1061
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion: 83 Resp: 41176

Ion	Ratio	Lower	Upper
83	100		
97	121.3	103.4	143.4
85	66.2	47.9	87.9

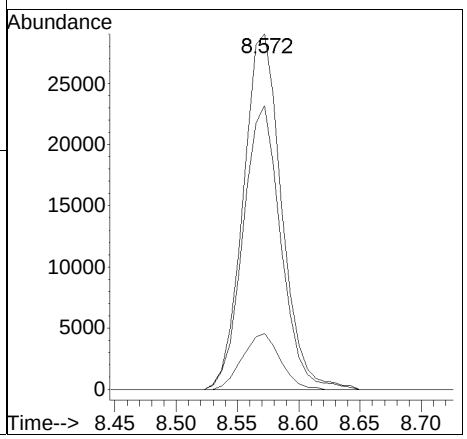


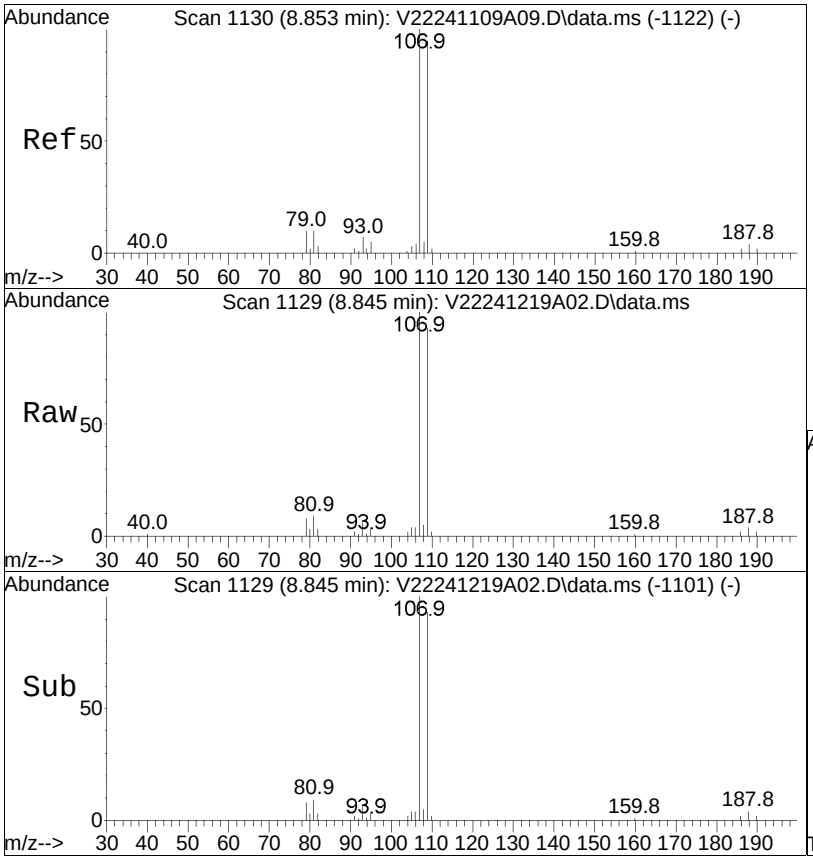


#72
Chlorodibromomethane
Concen: 9.07 ug/L
RT: 8.572 min Scan# 1090
Delta R.T. -0.000 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion:129 Resp: 63216

Ion	Ratio	Lower	Upper
129	100		
81	15.4	0.0	33.8
127	78.8	57.1	97.1

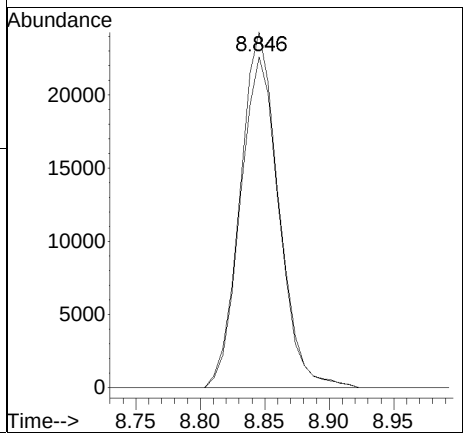


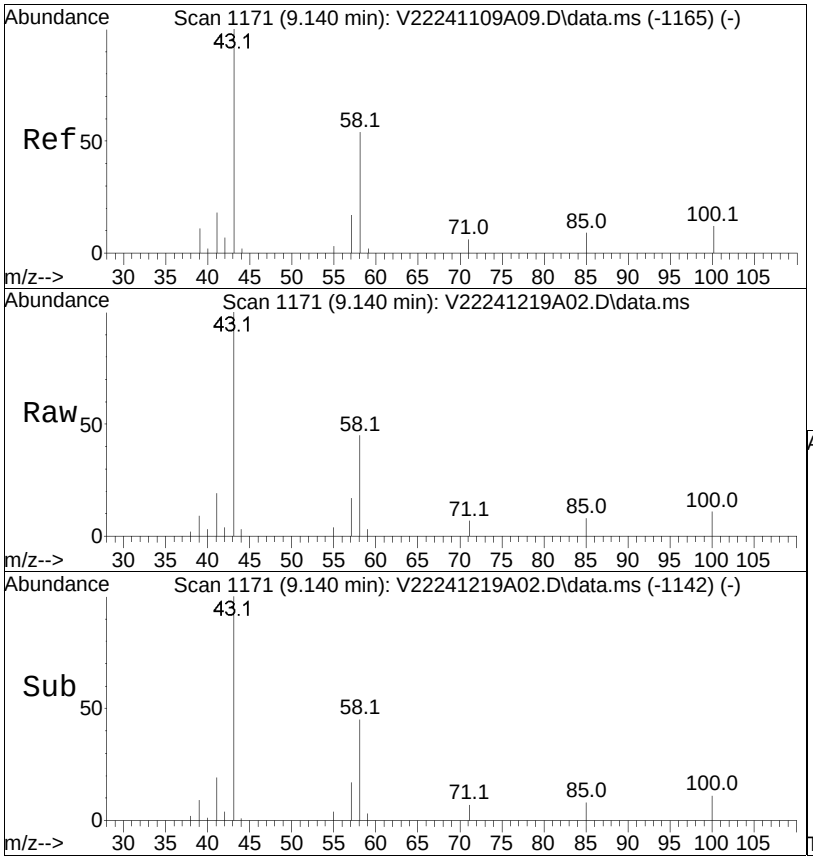


#74
1,2-Dibromoethane
Concen: 9.68 ug/L
RT: 8.845 min Scan# 1129
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion:107 Resp: 50399

Ion	Ratio	Lower	Upper
107	100		
109	93.5	75.1	112.7

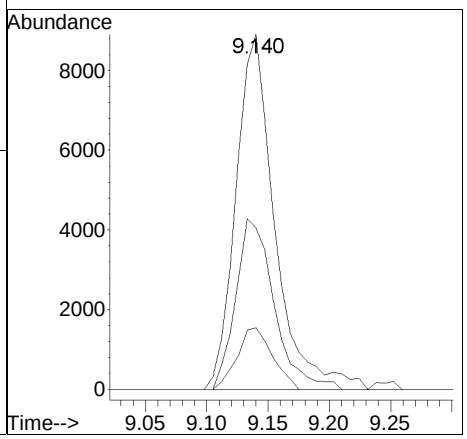


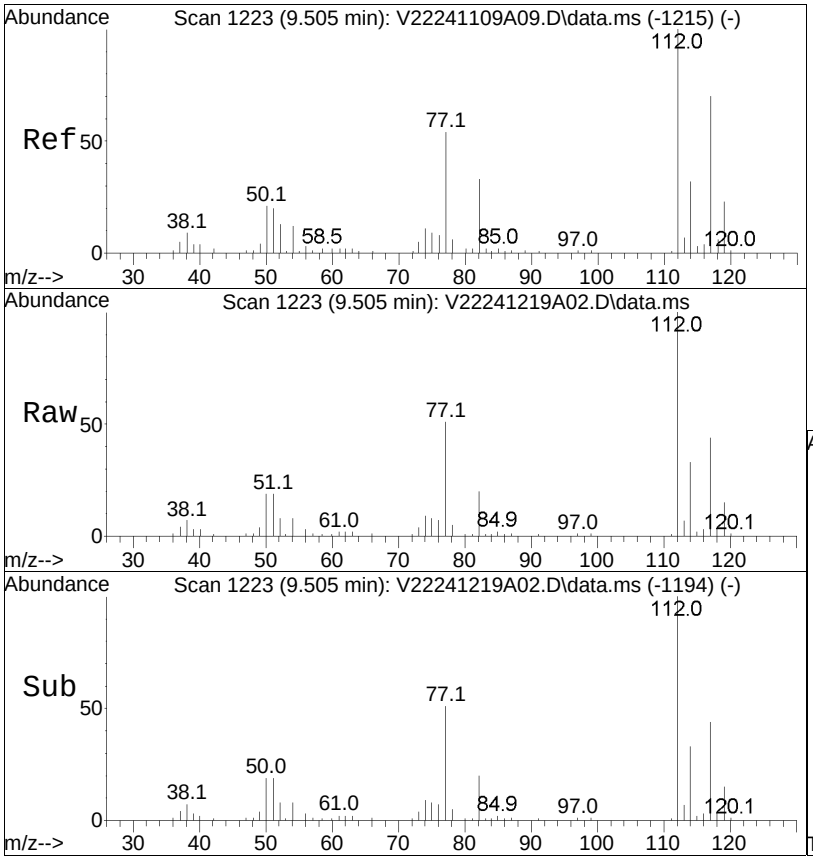


#76
2-Hexanone
Concen: 9.70 ug/L
RT: 9.140 min Scan# 1171
Delta R.T. -0.000 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion: 43 Resp: 19690

Ion	Ratio	Lower	Upper
43	100		
58	47.5	47.6	71.4#
57	15.8	16.6	24.8#

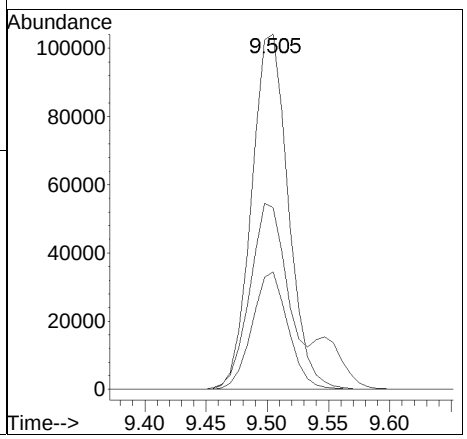


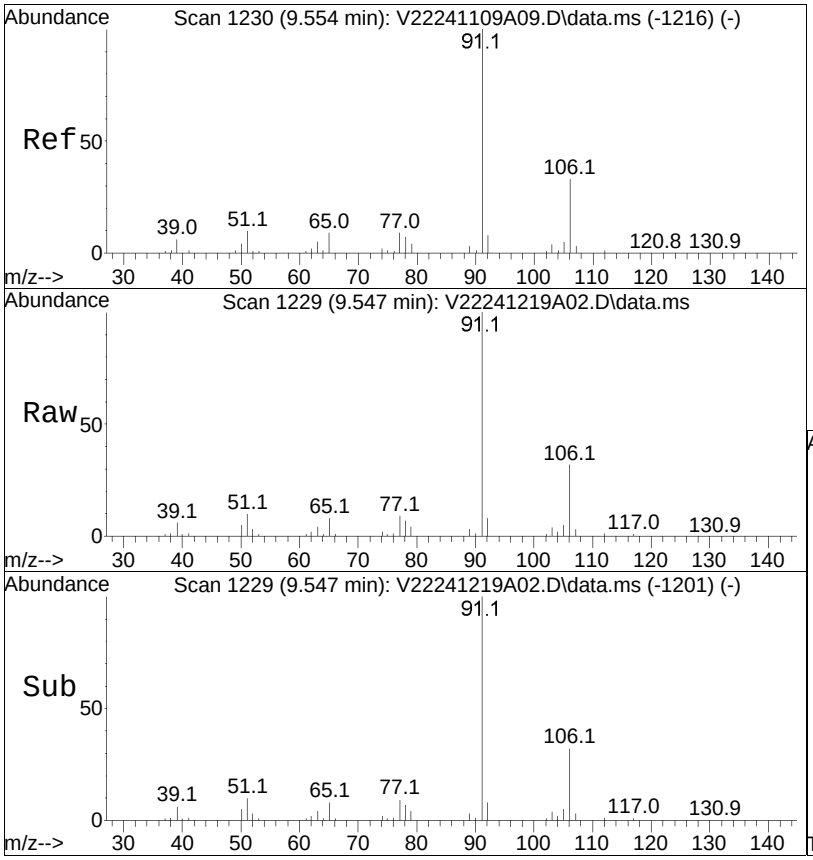


#77
Chlorobenzene
Concen: 10.35 ug/L
RT: 9.505 min Scan# 1223
Delta R.T. -0.000 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion:112 Resp: 216775

Ion	Ratio	Lower	Upper
112	100		
77	55.0	55.4	83.0#
114	32.5	26.2	39.4

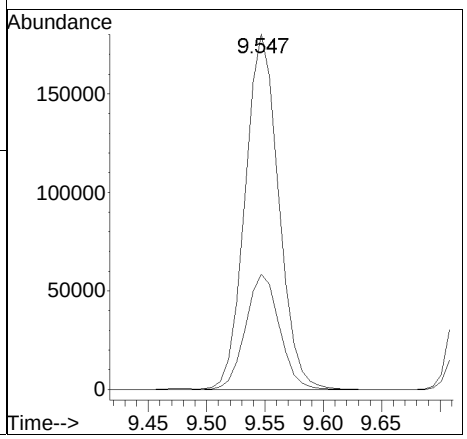


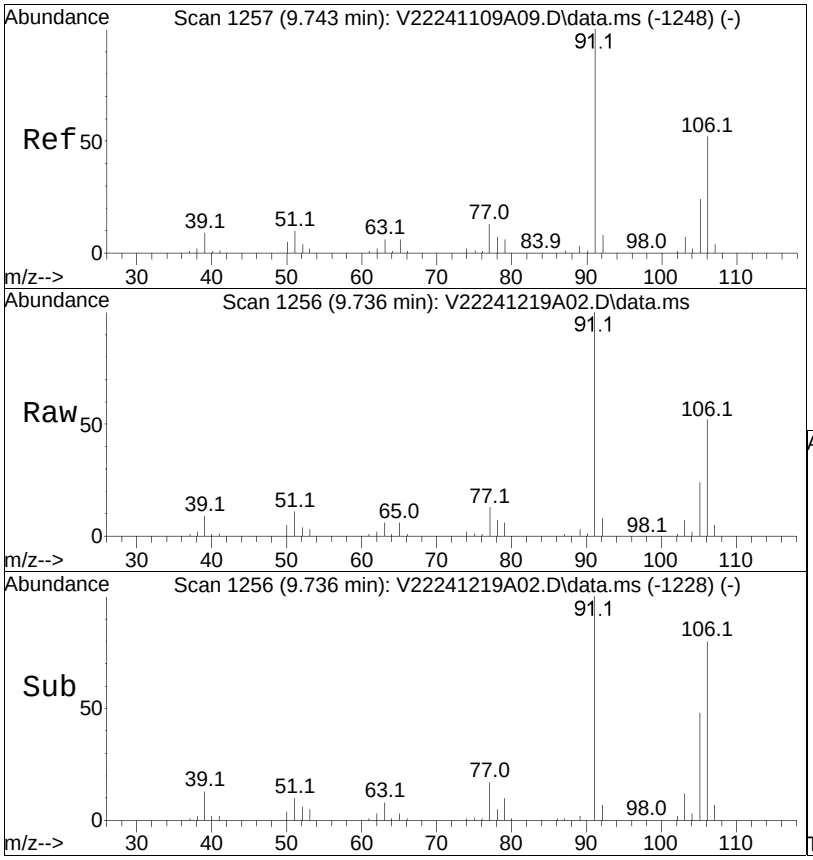


#78
Ethylbenzene
Concen: 9.99 ug/L
RT: 9.547 min Scan# 1229
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion: 91 Resp: 360132

Ion	Ratio	Lower	Upper
91	100		
106	32.7	25.8	38.6

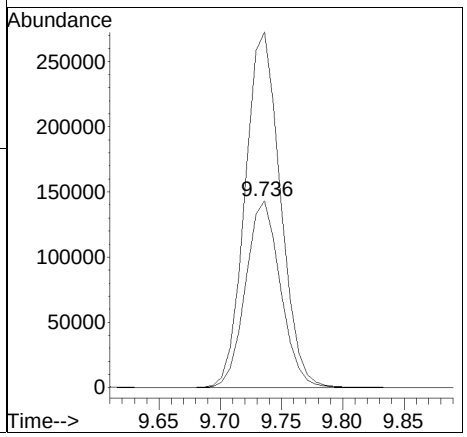


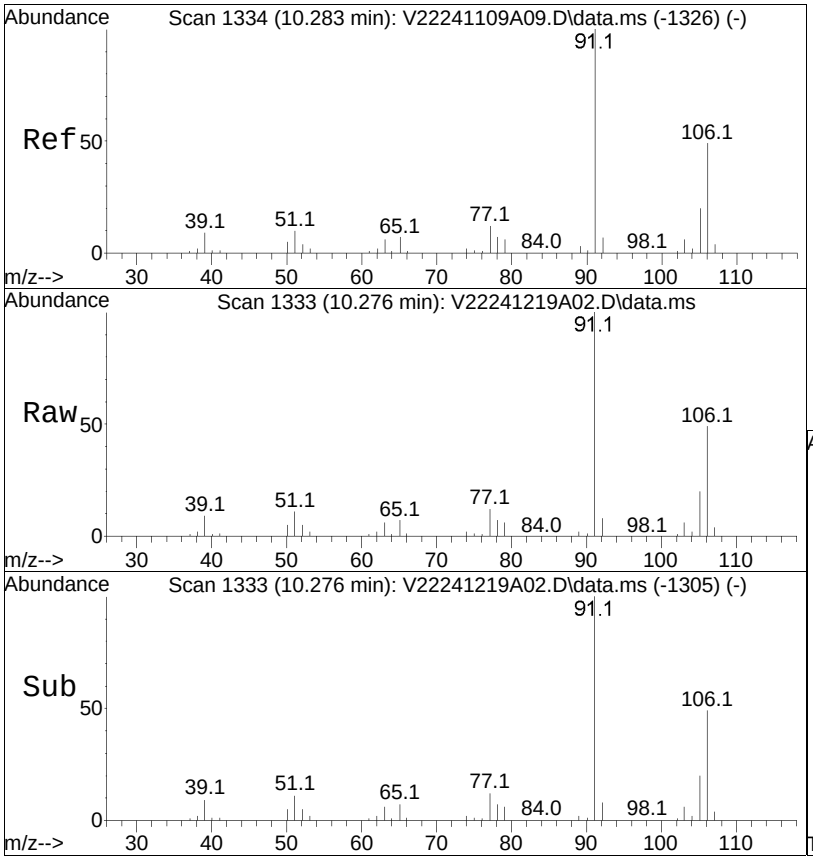


#80
p/m Xylene
Concen: 19.02 ug/L
RT: 9.736 min Scan# 1256
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion:106 Resp: 282906

Ion	Ratio	Lower	Upper
106	100		
91	193.1	156.0	234.0

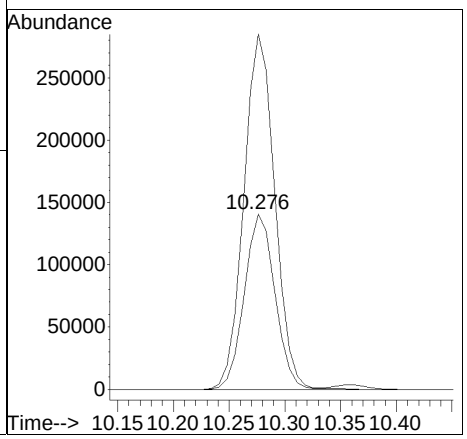


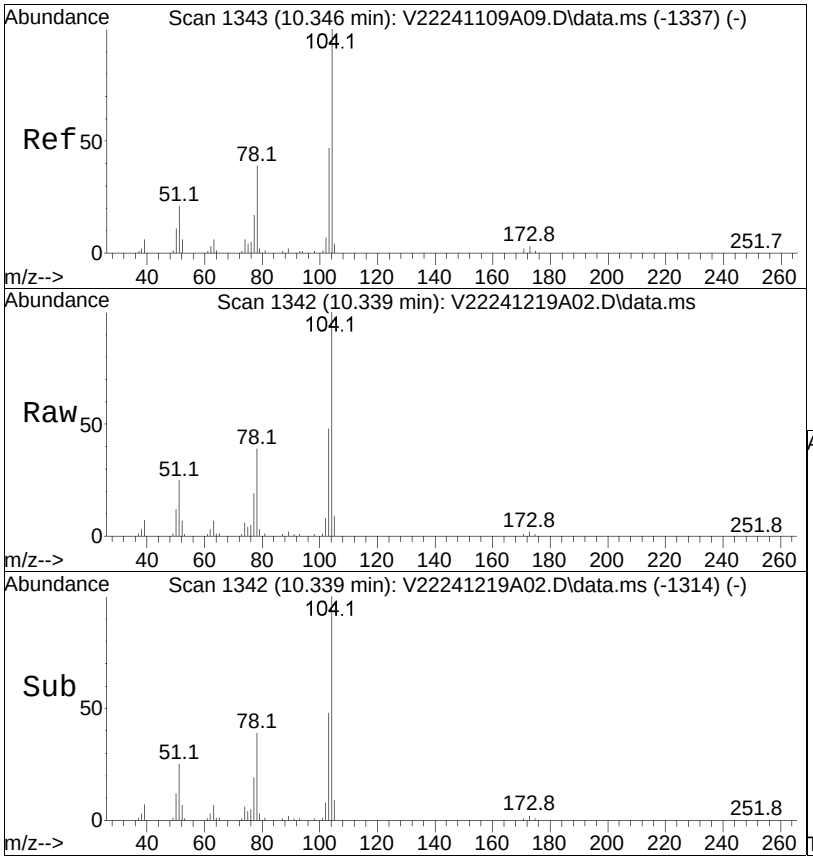


#81
o Xylene
Concen: 19.02 ug/L
RT: 10.276 min Scan# 1333
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion:106 Resp: 269684

Ion	Ratio	Lower	Upper
106	100		
91	203.4	164.0	246.0

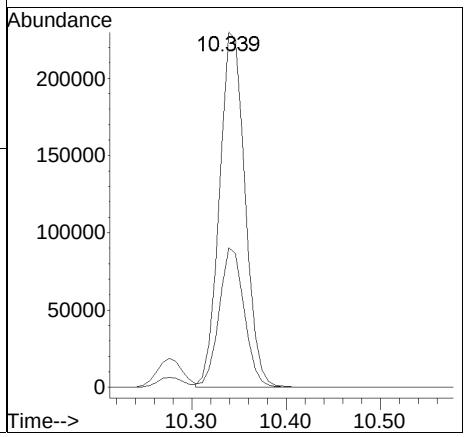


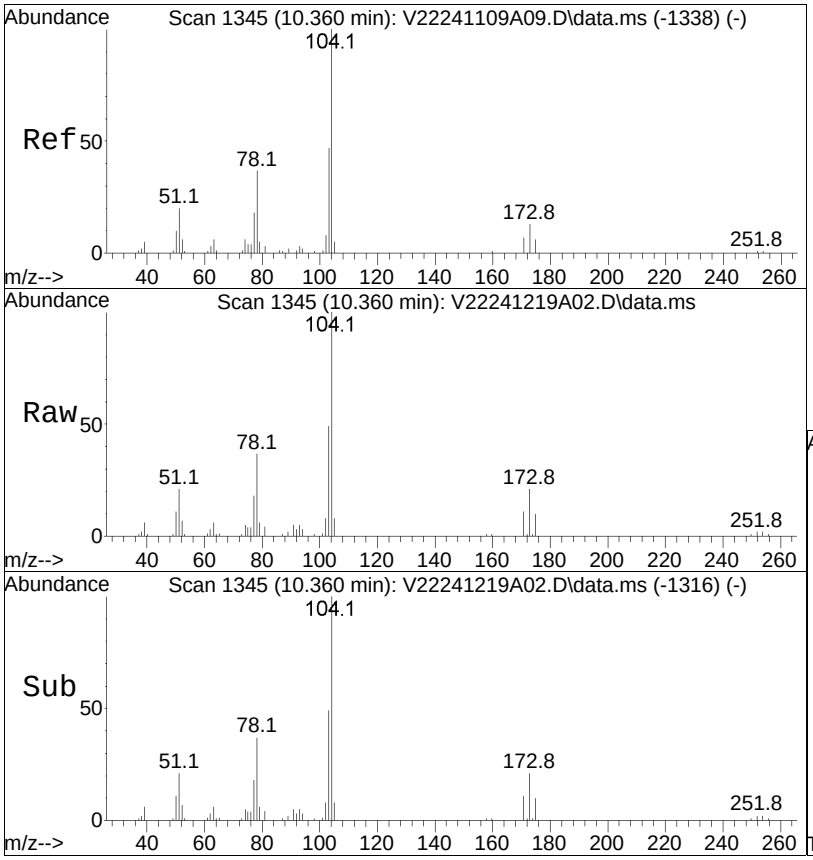


#82
Styrene
Concen: 19.01 ug/L
RT: 10.339 min Scan# 1342
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion:104 Resp: 433422

Ion	Ratio	Lower	Upper
104	100		
78	38.6	32.1	48.1

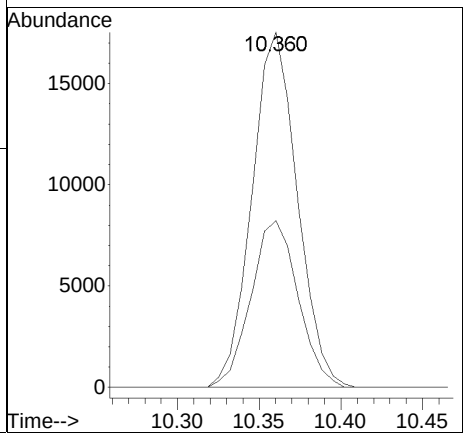


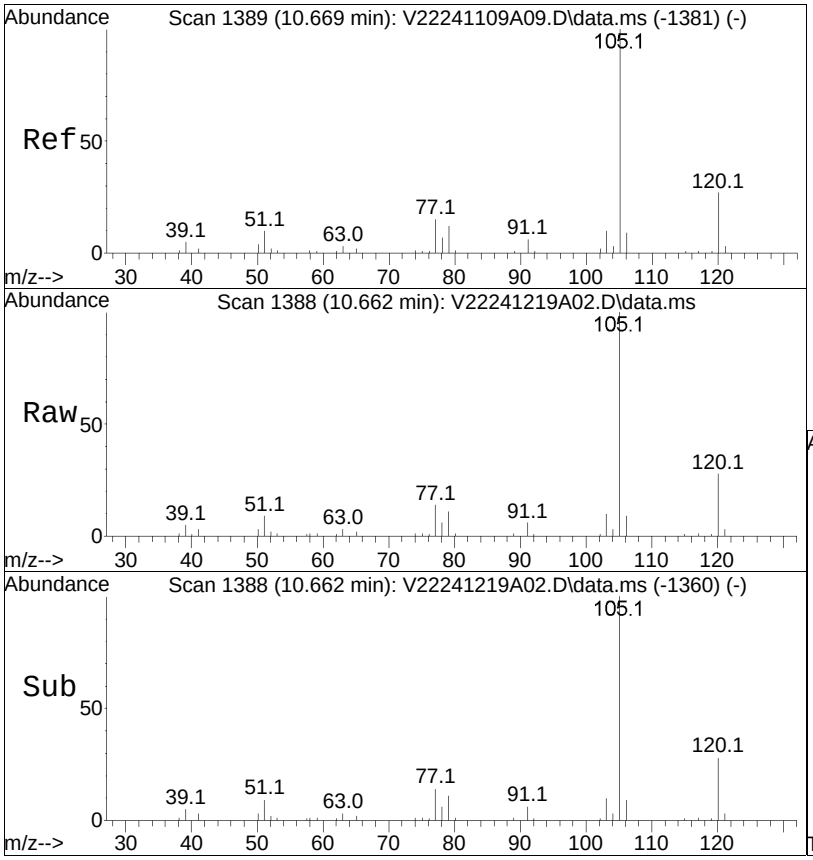


#84
Bromoform
Concen: 9.07 ug/L
RT: 10.360 min Scan# 1345
Delta R.T. 0.000 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion:173 Resp: 33848

Ion	Ratio	Lower	Upper
173	100		
175	48.8	29.3	69.3

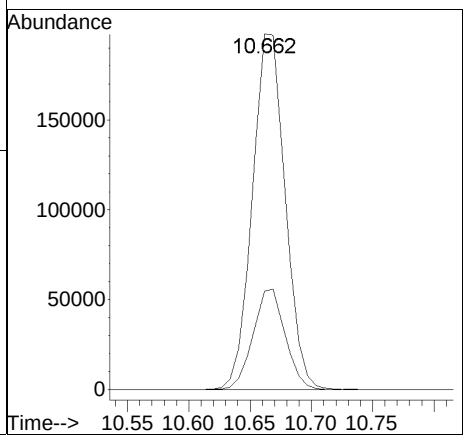


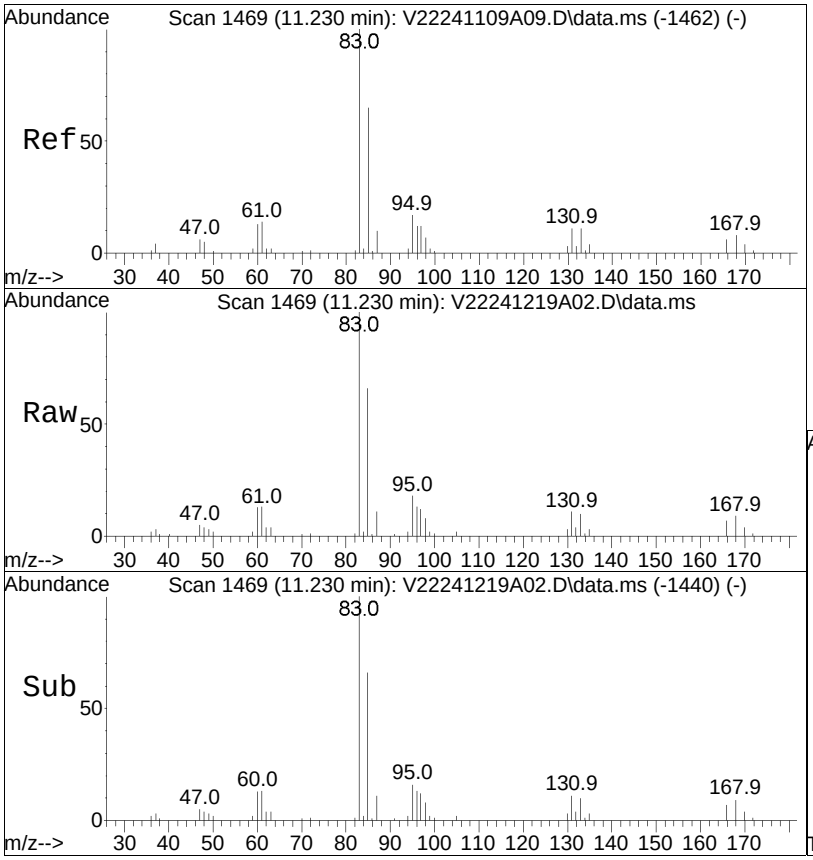


#86
Isopropylbenzene
Concen: 10.42 ug/L
RT: 10.662 min Scan# 1388
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion:105 Resp: 367988

Ion	Ratio	Lower	Upper
105	100		
120	27.6	7.7	47.7

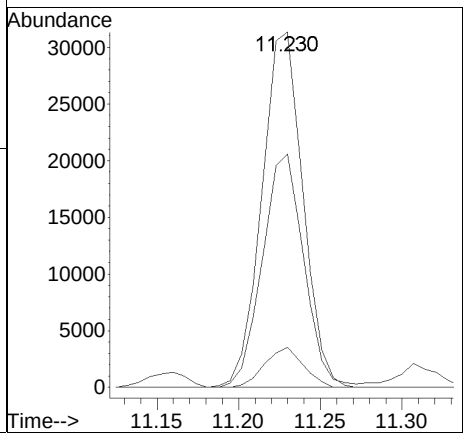


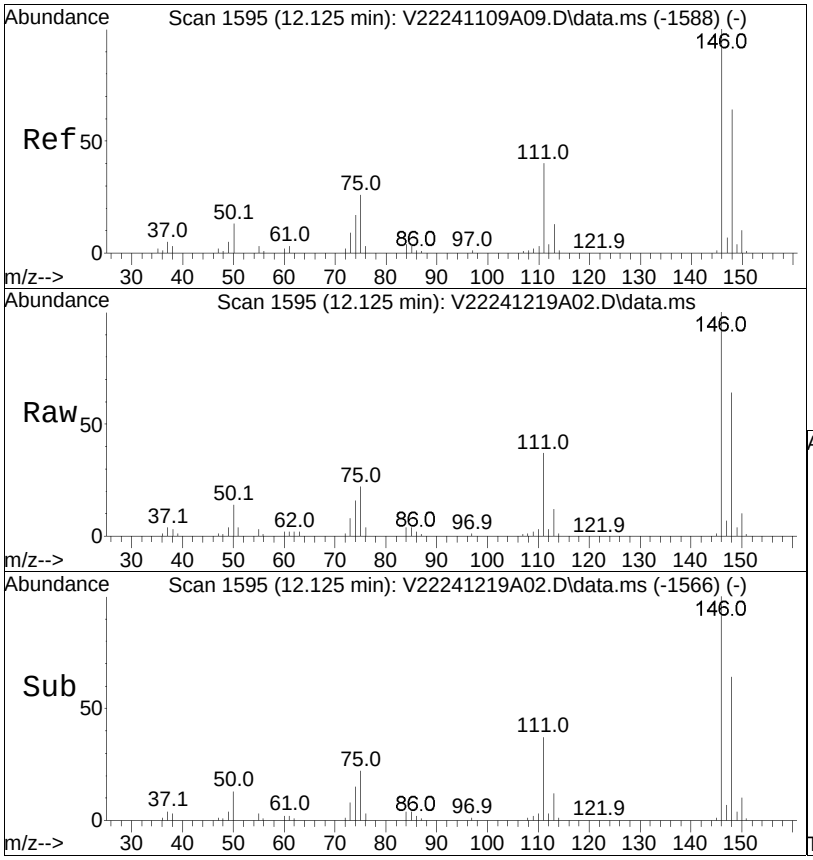


#91
1,1,2,2-Tetrachloroethane
Concen: 9.94 ug/L
RT: 11.230 min Scan# 1469
Delta R.T. -0.000 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion: 83 Resp: 54649

Ion	Ratio	Lower	Upper
83	100		
131	10.7	0.0	30.8
85	66.5	45.4	85.4

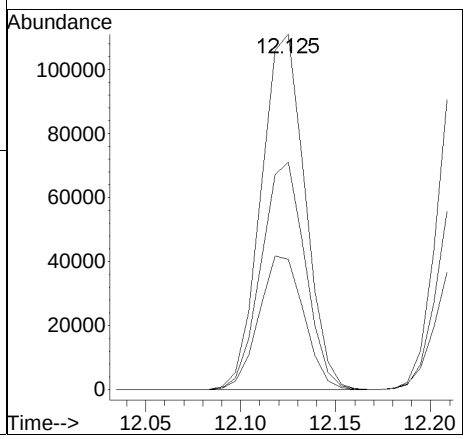


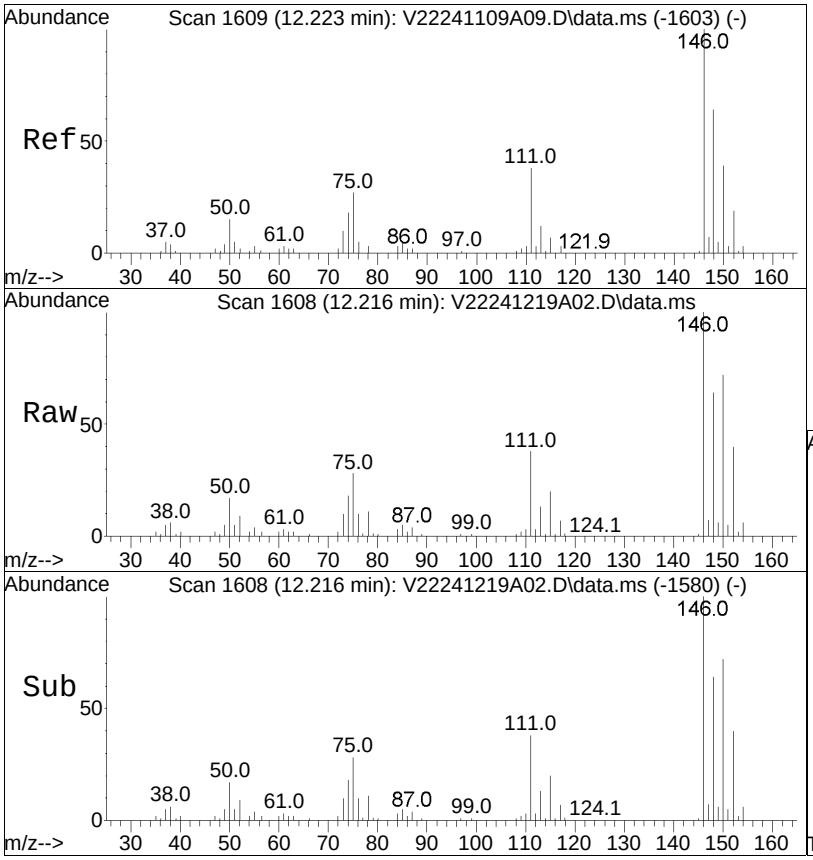


#104
1,3-Dichlorobenzene
Concen: 10.61 ug/L
RT: 12.125 min Scan# 1595
Delta R.T. -0.000 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion:146 Resp: 178301

Ion	Ratio	Lower	Upper
146	100		
111	38.3	24.0	49.8
148	64.0	41.8	86.8

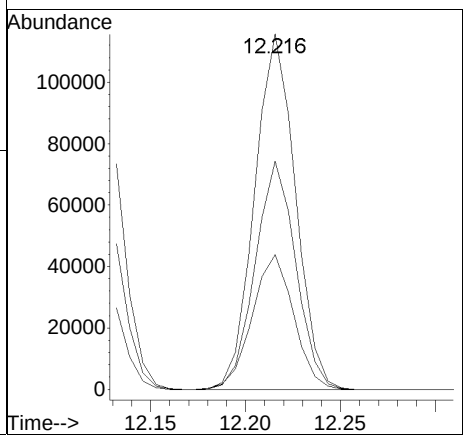


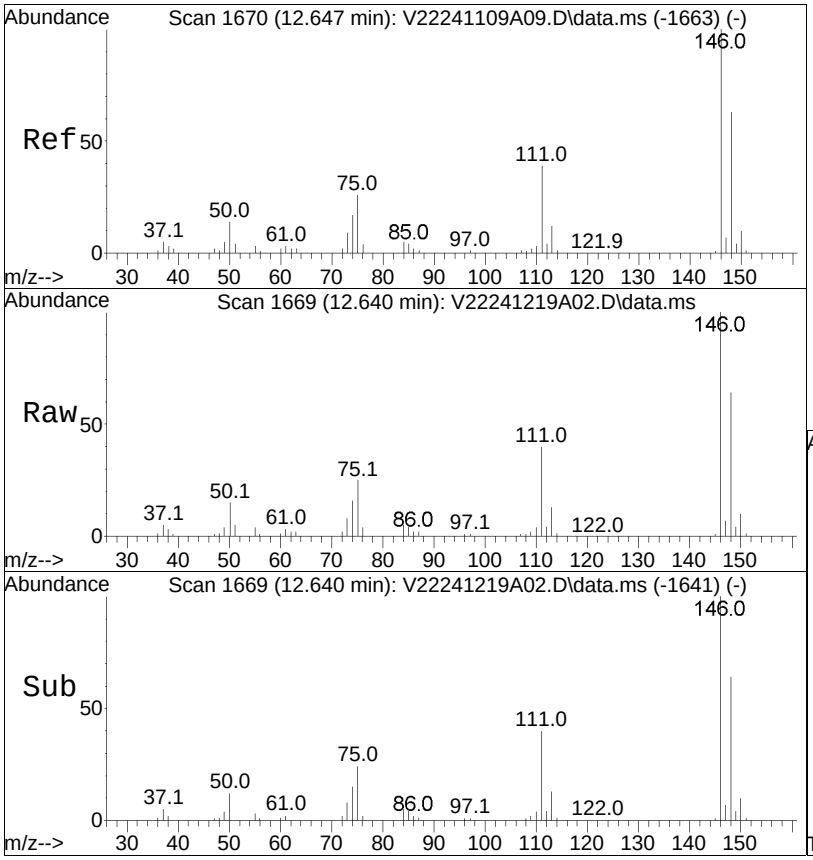


#105
1,4-Dichlorobenzene
Concen: 10.29 ug/L
RT: 12.216 min Scan# 1608
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion:146 Resp: 172876

Ion	Ratio	Lower	Upper
146	100		
111	38.6	28.9	43.3
148	63.8	51.4	77.2

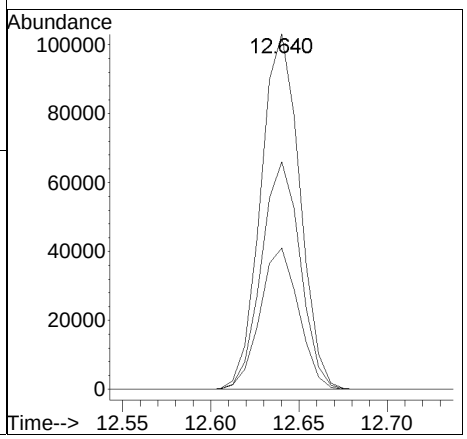


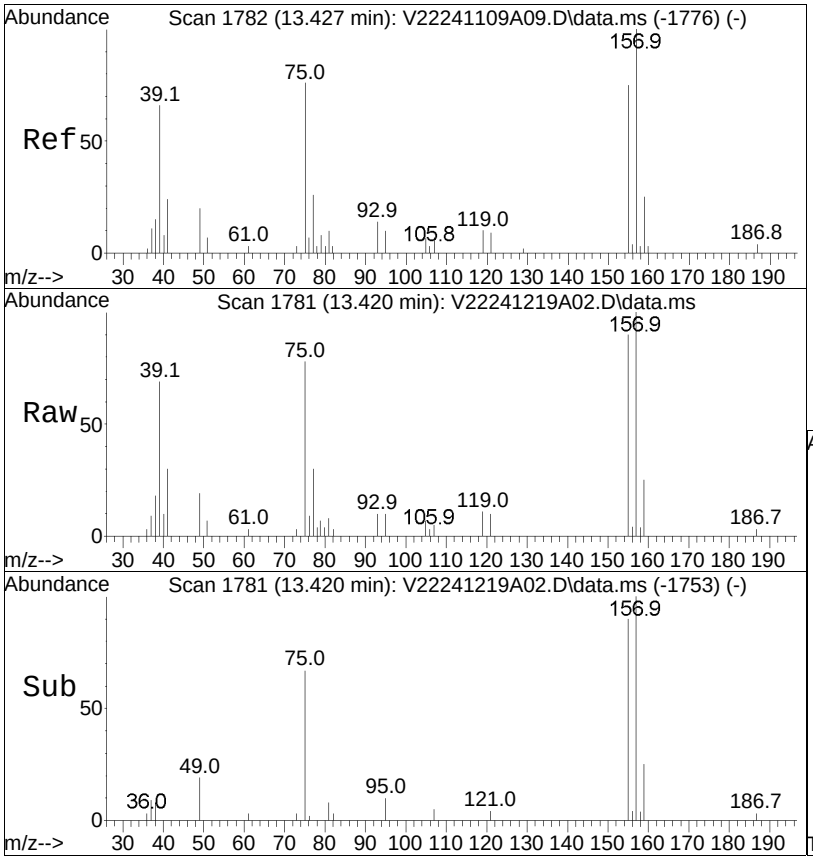


#108
1,2-Dichlorobenzene
Concen: 10.60 ug/L
RT: 12.640 min Scan# 1669
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion:146 Resp: 158982

Ion	Ratio	Lower	Upper
146	100		
111	39.4	24.8	51.6
148	63.8	42.2	87.6

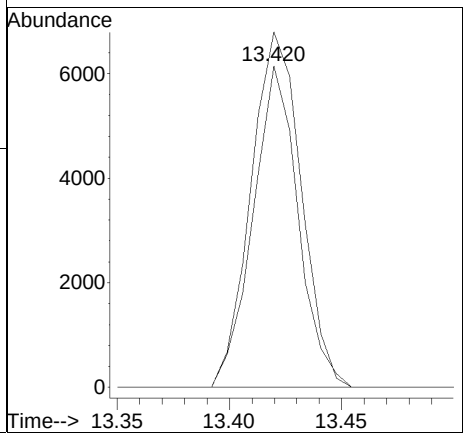


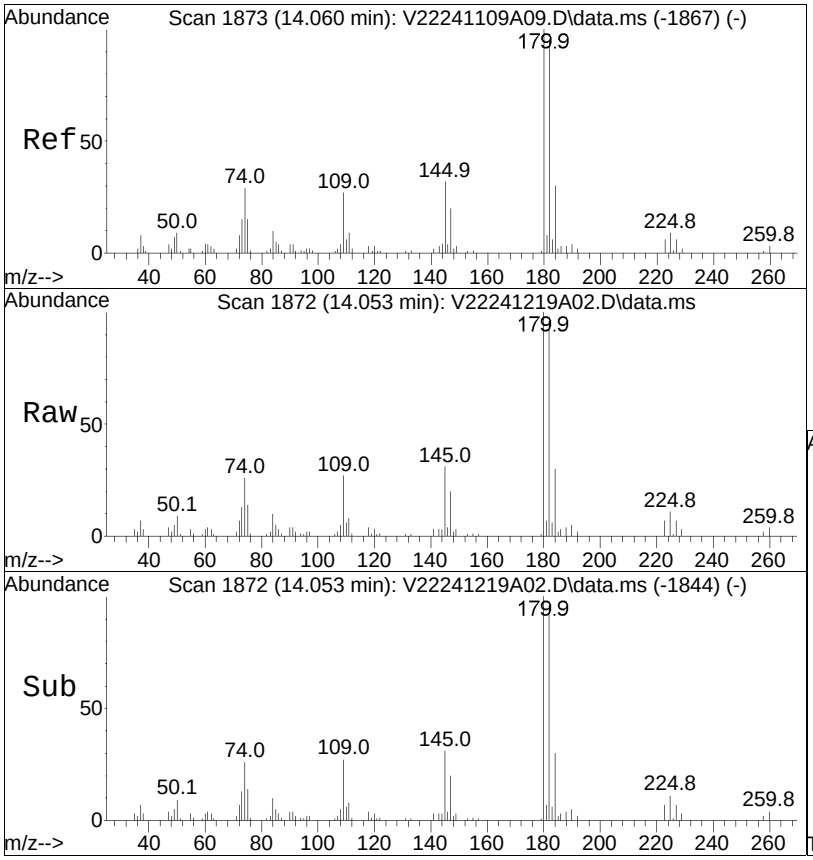


#110
1,2-Dibromo-3-chloropropane
Concen: 10.05 ug/L
RT: 13.420 min Scan# 1781
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion:155 Resp: 8614

Ion	Ratio	Lower	Upper
155	100		
157	122.8	102.3	153.5

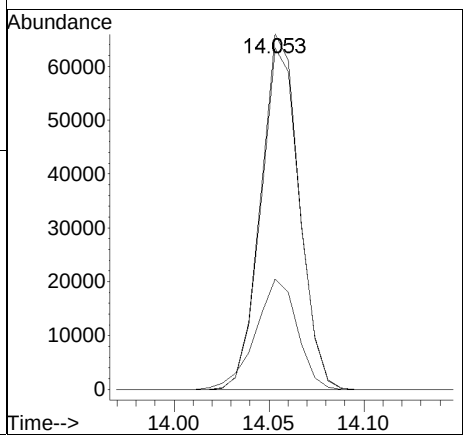


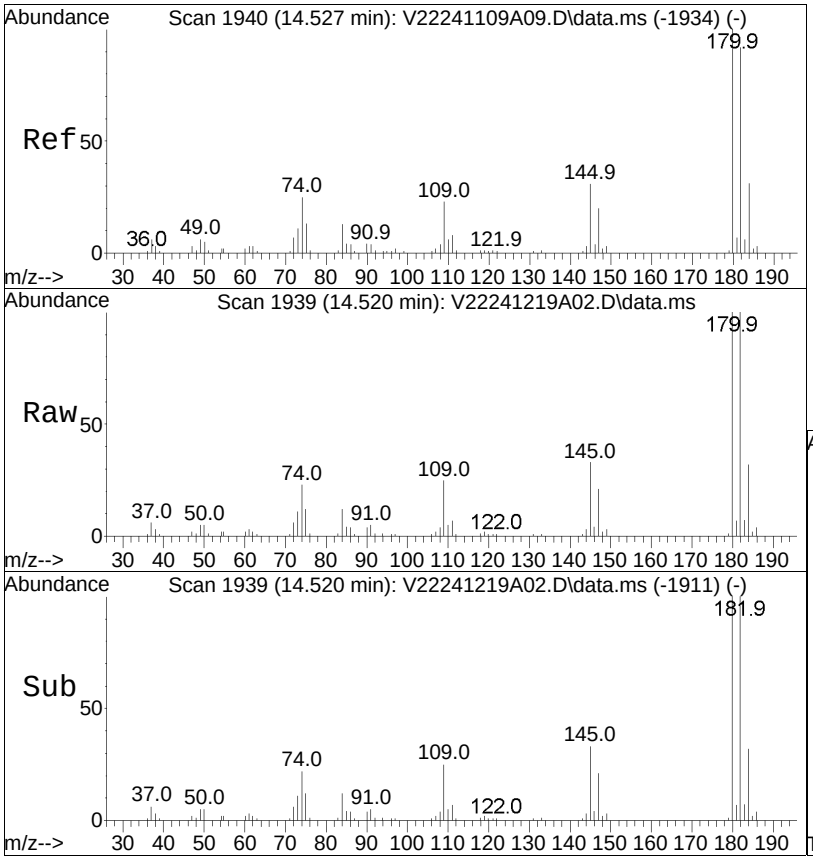


#113
1,2,4-Trichlorobenzene
Concen: 10.57 ug/L
RT: 14.053 min Scan# 1872
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion:180 Resp: 92672

Ion	Ratio	Lower	Upper
180	100		
182	96.8	76.6	114.8
145	33.7	25.5	38.3

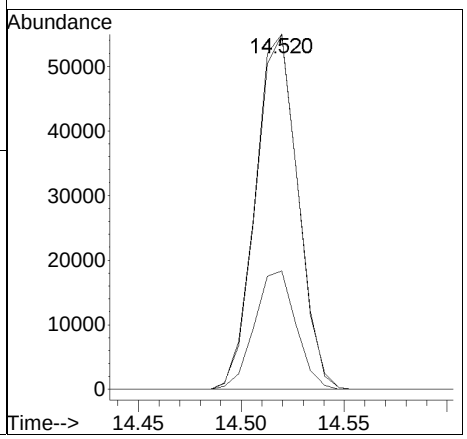




#115
1,2,3-Trichlorobenzene
Concen: 10.66 ug/L
RT: 14.520 min Scan# 1939
Delta R.T. -0.007 min
Lab File: V22241219A02.D
Acq: 19 Dec 2024 08:03 am

Tgt Ion:180 Resp: 79338

Ion	Ratio	Lower	Upper
180	100		
182	98.4	76.0	114.0
145	32.5	23.8	35.8



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 20 2024, 08:54 am

Work Group: WG2011630 for Department: 31 GC/MS - Volatiles

Created: 20-DEC-24 Due: Operator: mjv

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2473190-08	MW-A_20241213	S	NYTCL-8260	WATER	DONE	U	1227	1220	S0	Vial-B
L2473190-09	MW-F_20241213	S	NYTCL-8260	WATER	DONE	U	1227	1220	S0	Vial-B
L2473538-01	PZ-5	S	NYTCL-8260	WATER	DONE	U	1227	1220	S0	Vial-B
L2473538-02	MW-5D	S	NYTCL-8260	WATER	DONE	U	1227	1220	S0	Vial-B
L2473538-03	SCDOH-DR	S	NYTCL-8260	WATER	DONE	U	1227	1220	S0	Vial-B
L2473538-04	MW-10S	S	NYTCL-8260	WATER	DONE	U	1227	1220	S0	Vial-B
L2473538-05	MW-10D	S	NYTCL-8260	WATER	DONE	U	1227	1220	S0	Vial-B
L2473538-07	TRIP BLANK	S	NYTCL-8260	WATER	DONE	U	1224	1220	S0	Vial-B
L2473561-03	TW-03	C	NYTCL-8260	WATER	SEC	U	1227	1220	S0	Vial-B
L2473561-06	TW-04	C	NYTCL-8260	WATER	SEC	U	1227	1220	S0	Vial-B
L2473639-01	SW-N-12-13-24-S	S	NYTCL-8260	WATER	DONE	U	1227	1220	S0	Vial-B
L2473639-02	SW-N-12-13-24-M	S	NYTCL-8260	WATER	DONE	U	1227	1220	S0	Vial-B
L2473639-03	SW-N-12-13-24-D	S	NYTCL-8260	WATER	DONE	U	1227	1220	S0	Vial-B
L2473639-04	SW-S-12-13-24-S	S	NYTCL-8260	WATER	DONE	U	1227	1220	S0	Vial-B
L2473639-05	SW-S-12-13-24-S	S	NYTCL-8260	WATER	DONE	U	1227	1220	S0	Vial-B
L2473639-06	SW-S-12-13-24-S	S	NYTCL-8260	WATER	DONE	U	1227	1220	S0	Vial-B
L2473639-07	TB	S	NYTCL-8260	WATER	DONE	U	1227	1220	S0	Vial-B
WG2011630-1	MS BFB Tune Standard	S	NYTCL-8260	WATER	DONE	U				
WG2011630-2	Continuing Calibrati	S	NYTCL-8260	WATER	DONE	U				
WG2011630-3	Laboratory Control S	S	NYTCL-8260	WATER	DONE	U				
WG2011630-4	LCS Duplicate	S	NYTCL-8260	WATER	DONE	U				
WG2011630-5	Laboratory Method Bl	S	NYTCL-8260	WATER	DONE	U				

Comments:

WG2011630-4 WG2011630-3

Method

Inst: VOA122 BFB: V10735 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
Initials: PID IS/SS: V10849
Date: **12/19/24** ICAL: V10829C,V10856
Run **A**

Method
GC: 8260
Autosampler: 8260water
Concentrator: 8260 v122

QC:_____ Seq:_____

Vial	Data File	Sample			pH<2
1	V22241219ABF1	BFB TUNE 07:25			
1	V22241219A01	8260 CCAL LCS			
2	V22241219A02	8260 CCAL LCSD			
3	V22241219A03	8260 CCAL			
4	V22241219A04	BLK			
5	V22241219A05	METHOD BLK			
6	V22241219A06	L2472989-08,31,10,10,,C	NJ/15	FB,CONF RUN	pH<2
7	V22241219A07	L2472865-17,31,10,10,,C	NJ/15		pH>2
8	V22241219A08	L2473062-01D,31,1.0,10,,F	8260NH	VERY OILY	pH<2
9	V22241219A09	DSTD			
10	V22241219A10	L2473190-08,31,10,10,,A	NYTCL		pH<2
11	V22241219A11	L2473190-09,31,10,10,,A	NYTCL		pH<2
12	V22241219A12	L2473561-03,31,10,10,,A	NYTCL		pH>2
13	V22241219A13	L2473561-06,31,10,10,,A	NYTCL		pH<2
14	V22241219A14	L2473639-01,31,10,10,,A	NYTCL		pH<2
15	V22241219A15	L2473639-02,31,10,10,,A	NYTCL		pH<2
16	V22241219A16	L2473639-03,31,10,10,,A	NYTCL		pH<2
17	V22241219A17	L2473639-04,31,10,10,,A	NYTCL		pH<2
18	V22241219A18	L2473639-05,31,10,10,,A	NYTCL		pH<2
19	V22241219A19	L2473639-06,31,10,10,,A	NYTCL		pH<2
20	V22241219A20	L2473639-07,31,10,10,,A	NYTCL	TB	pH<2
21	V22241219A21	L2473538-01,31,10,10,,A	NY/R2		pH<2
22	V22241219A22	L2473538-02,31,10,10,,A	NY/R2		pH<2
23	V22241219A23	L2473538-03,31,10,10,,A	NY/R2		pH<2
24	V22241219A24	L2473538-04,31,10,10,,A	NY/R2		pH<2
25	V22241219A25	L2473538-05,31,10,10,,A	NY/R2		pH<2
26	V22241219A26	L2473538-07,31,10,10,,A	NY/R2	TB	pH<2
27	V22241219A27	L2473062-01DUP,31,1.0,10,,F	NJQC	VERY OILY	pH<2
28	V22241219A28	L2473062-01MS,31,1.0,10,,F	NJQC	VERY OILY	pH<2
29	V22241219A29	HSTD			
30	V22241219A30	BLK			
31	V22241219A31	BLK			

Semivolatiles Data- Method 8270

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Semivolatiles

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

Lab Number: L2473538
Project Number: 2232.0006Y005
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
PZ-5 (L2473538-01)	31	22	48	51	44	57	0
MW-5D (L2473538-02)	36	25	49	53	46	58	0
SCDOH-DR (L2473538-03)	35	26	49	50	52	61	0
MW-10S (L2473538-04)	32	23	47	55	48	55	0
MW-10D (L2473538-05)	27	20	50	45	43	60	0
WG2010761-1BLANK	33	23	51	52	45	55	0
WG2010761-2LCS	41	32	57	60	66	72	0
WG2010761-3LCSD	37	27	47	49	59	55	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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG2010761-2 **Analysis Date** : 12/19/24 01:05	**File ID**	: 010761-2
LCSD Sample ID	: WG2010761-3 **Analysis Date** : 12/19/24 01:29	**File ID**	: 010761-3

	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	15.	75		20	12.	58		26	40-140	30
2,4-Dinitrotoluene	20	15.	73		20	11.	57		25	48-143	30
2,6-Dinitrotoluene	20	14.	71		20	11.	53		29	40-140	30
4-Chlorophenyl phenyl ether	20	13.	63		20	9.9	50		23	40-140	30
4-Bromophenyl phenyl ether	20	13.	65		20	11.	55		17	40-140	30
Bis(2-chloroisopropyl)ether	20	7.8	39	Q	20	6.6	33	Q	17	40-140	30
Bis(2-chloroethoxy)methane	20	11.	57		20	10.	50		13	40-140	30
Hexachlorocyclopentadiene	20	6.0	30	Q	20	5.0	25	Q	18	40-140	30
Isophorone	20	11.	57		20	9.9	49		15	40-140	30
Nitrobenzene	20	11.	53		20	8.9	44		19	40-140	30
NDPA/DPA	20	14.	70		20	10.	52		30	40-140	30
n-Nitrosodi-n-propylamine	20	11.	55		20	9.6	48		14	29-132	30
Bis(2-ethylhexyl)phthalate	20	14.	73		20	11.	56		26	40-140	30
Butyl benzyl phthalate	20	15.	75		20	12.	58		26	40-140	30
Di-n-butylphthalate	20	14.	71		20	11.	55		25	40-140	30
Di-n-octylphthalate	20	15.	74		20	11.	57		26	40-140	30
Diethyl phthalate	20	14.	70		20	11.	55		24	40-140	30
Dimethyl phthalate	20	14.	70		20	11.	55		24	40-140	30
Biphenyl	20	12.	60		20	10.	51		16	40-140	30
4-Chloroaniline	20	7.5	37	Q	20	5.8	29	Q	24	40-140	30
2-Nitroaniline	20	14.	71		20	12.	58		20	52-143	30
3-Nitroaniline	20	13.	67		20	11.	54		21	25-145	30
4-Nitroaniline	20	15.	74		20	11.	56		28	51-143	30
Dibenzofuran	20	12.	61		20	10.	50		20	40-140	30
1,2,4,5-Tetrachlorobenzene	20	11.	55		20	9.4	47		16	2-134	30
Acetophenone	20	13.	65		20	11.	57		13	39-129	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG2010761-2 **Analysis Date** : 12/19/24 01:05	**File ID**	: 010761-2
LCSD Sample ID	: WG2010761-3 **Analysis Date** : 12/19/24 01:29	**File ID**	: 010761-3

	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	12.	61	20	10.	51	18	30-130	30
p-Chloro-m-cresol	20	13.	66	20	11.	54	20	23-97	30
2-Chlorophenol	20	11.	55	20	10.	50	10	27-123	30
2,4-Dichlorophenol	20	12.	60	20	10.	53	12	30-130	30
2,4-Dimethylphenol	20	8.1	41	20	6.3	31	28	30-130	30
2-Nitrophenol	20	12.	60	20	11.	54	11	30-130	30
4-Nitrophenol	20	8.9	44	20	7.1	35	23	10-80	30
2,4-Dinitrophenol	20	20.	99	20	20.	98	1	20-130	30
4,6-Dinitro-o-cresol	20	15.	77	20	13.	64	18	20-164	30
Phenol	20	6.5	32	20	5.8	29	10	12-110	30
2-Methylphenol	20	11.	55	20	9.2	46	18	30-130	30
3-Methylphenol/4-Methylphenol	20	10.	53	20	8.9	44	19	30-130	30
2,4,5-Trichlorophenol	20	13.	67	20	11.	54	21	30-130	30
Carbazole	20	14.	68	20	11.	54 Q	23	55-144	30
Atrazine	20	14.	71	20	10.	52	31 Q	40-140	30
Benzaldehyde	20	13.	66	20	11.	55	18	40-140	30
Caprolactam	20	5.0	25	20	3.7	18	33 Q	10-130	30

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG2010761-1	**Lab File ID**	: 010761-1
Instrument ID	: SV106	**Extraction Date**	: 12/18/24
Matrix	: WATER	**Analysis Date**	: 12/19/24 00:42
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG2010761-2LCS	WG2010761-2	12/19/24 01:05
WG2010761-3LCSD	WG2010761-3	12/19/24 01:29
PZ-5	L2473538-01	12/19/24 03:51
MW-5D	L2473538-02	12/19/24 04:15
SCDOH-DR	L2473538-03	12/19/24 04:39
MW-10S	L2473538-04	12/19/24 05:02
MW-10D	L2473538-05	12/19/24 05:26

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 10/09/24 19:43
Tune Standard	: R1887847-4	**Tune File ID**	: Tune1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	36.3
68	Less than 2.0% of mass 69	0.7 (1.7)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	47.3
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	25.3
365	Greater than 1.0% of mass 198	2.8
441	Present, but less than 24% of mass 442	16.2
442	Base Peak, or >50% of mass 198	66.9
443	15.0 - 24.0% of mass 442	13 (19.5)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ABNL9	R1887847-15	ABNL9	10/09/24 20:07
ABNL8	R1887847-13	ABNL8	10/09/24 20:30
ABNL7	R1887847-12	ABNL7	10/09/24 20:54
ABNL6	R1887847-11	ABNL6	10/09/24 21:18
ABNL5	R1887847-10	ABNL5	10/09/24 21:41
ABNL4	R1887847-9	ABNL4	10/09/24 22:05
ABNL3	R1887847-8	ABNL3	10/09/24 22:29
ABNL2	R1887847-7	ABNL2	10/09/24 22:52
ABNL1	R1887847-6	ABNL1	10/09/24 23:16
AP9L9	R1887847-32	AP9L9	10/09/24 23:40
AP9L8	R1887847-31	AP9L8	10/10/24 00:03
AP9L7	R1887847-30	AP9L7	10/10/24 00:27
AP9L6	R1887847-29	AP9L6	10/10/24 00:51
AP9L5	R1887847-28	AP9L5	10/10/24 01:15
AP9L4	R1887847-27	AP9L4	10/10/24 01:38
AP9L3	R1887847-24	AP9L3	10/10/24 02:02
AP9L2	R1887847-25	AP9L2	10/10/24 02:25
AP9L1	R1887847-26	AP9L1	10/10/24 02:49
ABN ICV Quant Report	R1887847-1	ABNICV	10/10/24 03:13
AP9 ICV Quant Report	R1887847-3	AP9ICV	10/10/24 03:37

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 10/11/24 12:20
Tune Standard	: R1887847-5	**Tune File ID**	: Tune3_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	35.1
68	Less than 2.0% of mass 69	0.6 (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	46.8
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	25.8
365	Greater than 1.0% of mass 198	2.9
441	Present, but less than 24% of mass 442	16.5
442	Base Peak, or >50% of mass 198	69.1
443	15.0 - 24.0% of mass 442	13.4 (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
ADPL9	R1887847-23	ADPL9	10/11/24 12:44
ADPL8	R1887847-21	ADPL8	10/11/24 13:07
ADPL7	R1887847-20	ADPL7	10/11/24 13:31
ADPL6	R1887847-22	ADPL6	10/11/24 13:55
ADPL5	R1887847-19	ADPL5	10/11/24 14:18
ADPL4	R1887847-17	ADPL4	10/11/24 14:42
ADPL3	R1887847-18	ADPL3	10/11/24 15:06
ADPL2	R1887847-16	ADPL2	10/11/24 15:29
ADPL1	R1887847-14	ADPL1	10/11/24 15:53
ADP ICV Quant Report	R1887847-2	ADPICV	10/11/24 16:16

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 12/18/24 21:55
Tune Standard	: WG2011026-1	**Tune File ID**	: DEG1218_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	27.4
68	Less than 2.0% of mass 69	0.4 (1.1)1
69		100
70	Less than 2.0% of mass 69	0.1 (.5)1
127	10.0 - 80.0% of Base Peak	44.3
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	28.1
365	Greater than 1.0% of mass 198	3.3
441	Present, but less than 24% of mass 442	16.5
442	Base Peak, or >50% of mass 198	86.6
443	15.0 - 24.0% of mass 442	16.9 (19.6)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG2011026-6TFACTOR-P	WG2011026-6	DEG1218	12/18/24 21:55
WG2011026-7TFACTOR-B	WG2011026-7	DEG1218	12/18/24 21:55
WG2011026-3CCAL	WG2011026-3	ABN1218	12/18/24 22:19
WG2011026-4CCAL	WG2011026-4	AP91218	12/18/24 22:43
WG2011026-5CCAL	WG2011026-5	ADP1218	12/18/24 23:07
WG2010761-1BLANK	WG2010761-1	010761-1	12/19/24 00:42
WG2010761-2LCS	WG2010761-2	010761-2	12/19/24 01:05
WG2010761-3LCSD	WG2010761-3	010761-3	12/19/24 01:29
PZ-5	L2473538-01	73538-01	12/19/24 03:51
MW-5D	L2473538-02	73538-02	12/19/24 04:15
SCDOH-DR	L2473538-03	73538-03	12/19/24 04:39
MW-10S	L2473538-04	73538-04	12/19/24 05:02
MW-10D	L2473538-05	73538-05	12/19/24 05:26

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 12/18/24 22:19:00
Sample No	: WG2011026-3	**Lab File ID**	: ABN1218

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG2011026-3	49612	6.64	183058	8.05	122903	9.81
Upper Limit	99224	7.14	366116	8.55	245806	10.31
Lower Limit	24806	6.14	91529	7.55	61452	9.31
Sample ID						
WG2011026-4 CCAL	57665	6.64	207211	8.05	120872	9.80
WG2011026-5 CCAL	50150	6.64	-	-	113815	9.80
WG2010761-1 BLANK	57323	6.64	226145	8.05	133913	9.80
WG2010761-2 LCS	63456	6.64	238341	8.05	144128	9.80
WG2010761-3 LCSD	66163	6.64	253842	8.05	151670	9.80
PZ-5	60742	6.64	228334	8.05	139285	9.80
MW-5D	59728	6.64	244846	8.05	146325	9.80
SCDOH-DR	61909	6.64	251805	8.05	141697	9.80
MW-10S	69698	6.64	262051	8.05	182256	9.80
MW-10D	66413	6.64	250745	8.05	143306	9.80

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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 12/18/24 22:19:00
Sample No	: WG2011026-3	**Lab File ID**	: ABN1218

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG2011026-3	229574	11.25	264435	13.90	304444	15.39
Upper Limit	459148	11.75	528870	14.40	608888	15.89
Lower Limit	114787	10.75	132218	13.40	152222	14.89
Sample ID						
WG2011026-4 CCAL	240818	11.25	-	-	-	-
WG2011026-5 CCAL	236979	11.25	-	-	-	-
WG2010761-1 BLANK	259300	11.25	274033	13.90	328810	15.38
WG2010761-2 LCS	288611	11.25	320038	13.90	364602	15.38
WG2010761-3 LCSD	300974	11.25	322707	13.90	369436	15.38
PZ-5	275890	11.25	299100	13.90	349202	15.39
MW-5D	304627	11.25	309129	13.90	360077	15.38
SCDOH-DR	307228	11.25	335689	13.90	366645	15.38
MW-10S	357648	11.25	361661	13.90	421554	15.39
MW-10D	283407	11.25	295300	13.90	344107	15.38

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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ABN Extractables - EPA 8270E (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	2	1.06	ug/l	37-111	30	37-111	30	30			
Benzidine	92-87-5	20	8.14	ug/l	10-75	30	10-75	30	30			
1,2,4-Trichlorobenzene	120-82-1	5	0.581	ug/l	39-98	30	39-98	30	30			
Hexachlorobenzene	118-74-1	2	0.69	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethyl)ether	111-44-4	2	0.884	ug/l	40-140	30	40-140	30	30			
2-Chloronaphthalene	91-58-7	2	0.538	ug/l	40-140	30	40-140	30	30			
1,2-Dichlorobenzene	95-50-1	2	0.636	ug/l	40-140	30	40-140	30	30			
1,3-Dichlorobenzene	541-73-1	2	0.642	ug/l	40-140	30	40-140	30	30			
1,4-Dichlorobenzene	106-46-7	2	0.463	ug/l	36-97	30	36-97	30	30			
3,3'-Dichlorobenzidine	91-94-1	5	0.854	ug/l	40-140	30	40-140	30	30			
2,4-Dinitrotoluene	121-14-2	5	0.382	ug/l	48-143	30	48-143	30	30			
2,6-Dinitrotoluene	606-20-2	5	0.368	ug/l	40-140	30	40-140	30	30			
Azobenzene	122-66-7	2	0.81	ug/l	40-140	30	40-140	30	30			
Fluoranthene	206-44-0	2	0.653	ug/l	40-140	30	40-140	30	30			
4-Chlorophenyl phenyl ether	7005-72-3	2	0.795	ug/l	40-140	30	40-140	30	30			
4-Bromophenyl phenyl ether	101-55-3	2	0.632	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroisopropyl)ether	108-60-1	2	1.75	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethoxy)methane	111-91-1	5	1.49	ug/l	40-140	30	40-140	30	30			
Hexachlorobutadiene	87-68-3	2	0.6	ug/l	40-140	30	40-140	30	30			
Hexachlorocyclopentadiene	77-47-4	20	0.606	ug/l	40-140	30	40-140	30	30			
Hexachloroethane	67-72-1	2	0.44	ug/l	40-140	30	40-140	30	30			
Isophorone	78-59-1	5	0.657	ug/l	40-140	30	40-140	30	30			
Naphthalene	91-20-3	2	0.669	ug/l	40-140	30	40-140	30	30			
Nitrobenzene	98-95-3	2	0.656	ug/l	40-140	30	40-140	30	30			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	2	0.65	ug/l	40-140	30	40-140	30	30			
n-Nitrosodi-n-propylamine	621-64-7	5	0.771	ug/l	29-132	30	29-132	30	30			
Bis(2-Ethylhexyl)phthalate	117-81-7	3	1.51	ug/l	40-140	30	40-140	30	30			
Butyl benzyl phthalate	85-68-7	5	2.18	ug/l	40-140	30	40-140	30	30			
Di-n-butylphthalate	84-74-2	5	0.58	ug/l	40-140	30	40-140	30	30			
Di-n-octylphthalate	117-84-0	5	2.39	ug/l	40-140	30	40-140	30	30			
Diethyl phthalate	84-66-2	5	4.3	ug/l	40-140	30	40-140	30	30			
Dimethyl phthalate	131-11-3	5	4.44	ug/l	40-140	30	40-140	30	30			
Benzo(a)anthracene	56-55-3	2	0.767	ug/l	40-140	30	40-140	30	30			
Benzo(a)pyrene	50-32-8	2	0.447	ug/l	40-140	30	40-140	30	30			
Benzo(b)fluoranthene	205-99-2	2	0.814	ug/l	40-140	30	40-140	30	30			
Benzo(k)fluoranthene	207-08-9	2	0.816	ug/l	40-140	30	40-140	30	30			
Chrysene	218-01-9	2	0.828	ug/l	40-140	30	40-140	30	30			
Acenaphthylene	208-96-8	2	0.59	ug/l	45-123	30	45-123	30	30			
Anthracene	120-12-7	2	0.79	ug/l	40-140	30	40-140	30	30			
Benzo(ghi)perylene	191-24-2	2	0.77	ug/l	40-140	30	40-140	30	30			
Fluorene	86-73-7	2	1.05	ug/l	40-140	30	40-140	30	30			
Phenanthrene	85-01-8	2	0.992	ug/l	40-140	30	40-140	30	30			

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

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Created By: Jason Hebert
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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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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)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of the laboratory

Semivolatile Sample Data

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-01	**Date Collected**	: 12/13/24 08:20
Client ID	: PZ-5	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 03:51
Sample Matrix	: WATER	**Date Extracted**	: 12/18/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 73538-01	**Analyst**	: JG
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-01	**Date Collected**	: 12/13/24 08:20
Client ID	: PZ-5	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 03:51
Sample Matrix	: WATER	**Date Extracted**	: 12/18/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 73538-01	**Analyst**	: JG
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-02	**Date Collected**	: 12/13/24 09:45
Client ID	: MW-5D	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 04:15
Sample Matrix	: WATER	**Date Extracted**	: 12/18/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 73538-02	**Analyst**	: JG
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-02	**Date Collected**	: 12/13/24 09:45
Client ID	: MW-5D	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 04:15
Sample Matrix	: WATER	**Date Extracted**	: 12/18/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 73538-02	**Analyst**	: JG
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-03	**Date Collected**	: 12/13/24 11:20
Client ID	: SCDOH-DR	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 04:39
Sample Matrix	: WATER	**Date Extracted**	: 12/18/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 73538-03	**Analyst**	: JG
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-03	**Date Collected**	: 12/13/24 11:20
Client ID	: SCDOH-DR	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 04:39
Sample Matrix	: WATER	**Date Extracted**	: 12/18/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 73538-03	**Analyst**	: JG
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-04	**Date Collected**	: 12/13/24 12:43
Client ID	: MW-10S	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 05:02
Sample Matrix	: WATER	**Date Extracted**	: 12/18/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 73538-04	**Analyst**	: JG
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-04	**Date Collected**	: 12/13/24 12:43
Client ID	: MW-10S	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 05:02
Sample Matrix	: WATER	**Date Extracted**	: 12/18/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 73538-04	**Analyst**	: JG
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	1.1	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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-05	**Date Collected**	: 12/13/24 12:30
Client ID	: MW-10D	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 05:26
Sample Matrix	: WATER	**Date Extracted**	: 12/18/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 73538-05	**Analyst**	: JG
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-05	**Date Collected**	: 12/13/24 12:30
Client ID	: MW-10D	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 05:26
Sample Matrix	: WATER	**Date Extracted**	: 12/18/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 73538-05	**Analyst**	: JG
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	1.2	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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010761-1	**Date Collected**	: NA
Client ID	: WG2010761-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/19/24 00:42
Sample Matrix	: WATER	**Date Extracted**	: 12/18/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 010761-1	**Analyst**	: IM
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010761-1	**Date Collected**	: NA
Client ID	: WG2010761-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/19/24 00:42
Sample Matrix	: WATER	**Date Extracted**	: 12/18/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 010761-1	**Analyst**	: IM
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241218RVT\
Data File : 73538-01.D
Acq On : 19 Dec 2024 3:51 am
Operator : SV106:jg
Sample : L2473538-01,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 19 19:53:49 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241218RVT\ABN1218.D
: 2 - I:\8270\SV106\241218RVT\ADP1218.D
: 3 - I:\8270\SV106\241218RVT\AP91218.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.640	152	60742	4.000	ug/ml	0.00
Standard Area 1 = 49612			Recovery = 122.43%			
27) IS2_1,4-Dichlorobenzen...	6.640	152	60742	4.000	ug/ml	0.00
Standard Area 3 = 57665			Recovery = 105.34%			
35) IS1_Naphthalene-d8	8.045	136	228334	4.000	ug/ml	0.00
Standard Area 1 = 183058			Recovery = 124.73%			
55) IS2_Naphthalene-d8	8.045	136	228334	4.000	ug/ml	0.00
Standard Area 3 = 207211			Recovery = 110.19%			
63) IS1_Acenaphthene-d10	9.804	164	139285	4.000	ug/ml	0.00
Standard Area 1 = 122903			Recovery = 113.33%			
83) IS2_Acenaphthene-d10	9.804	164	139285	4.000	ug/ml	0.00
Standard Area 3 = 120872			Recovery = 115.23%			
86) IS3_Acenaphthene-d10	9.804	164	139285	4.000	ug/ml	0.00
Standard Area 2 = 113815			Recovery = 122.38%			
88) IS1_Phenanthrene-d10	11.245	188	275890	4.000	ug/ml	0.00
Standard Area 1 = 229574			Recovery = 120.17%			
100) IS3_Phenanthrene-d10	11.245	188	275890	4.000	ug/ml	0.00
Standard Area 2 = 236979			Recovery = 116.42%			
104) IS1_Chrysene-d12	13.904	240	299100	4.000	ug/ml	0.00
Standard Area 1 = 264435			Recovery = 113.11%			
113) IS1_Perylene-d12	15.386	264	349202	4.000	ug/ml	0.00
Standard Area 1 = 304444			Recovery = 114.70%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.840	112	11762	0.622	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 31.10%			
7) Phenol-d6	6.269	99	10105	0.444	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 22.20%			
19) Nitrobenzene-d5	7.281	82	9821	0.476	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 47.60%			
46) 2-Fluorobiphenyl	9.163	172	26707	0.505	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 50.50%			
79) 2,4,6-Tribromophenol	10.575	330	6983	0.886	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 44.30%			
96) 4-Terphenyl-d14	12.833	244	42224	0.570	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 57.00%			

Data Path : I:\8270\SV106\241218RVT\
Data File : 73538-01.D
Acq On : 19 Dec 2024 3:51 am
Operator : SV106:jg
Sample : L2473538-01,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 19 19:53:49 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241218RVT\ABN1218.D
: 2 - I:\8270\SV106\241218RVT\ADP1218.D
: 3 - I:\8270\SV106\241218RVT\AP91218.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.		
53) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.	d	
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.		
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV106\241218RVT\
Data File : 73538-01.D
Acq On : 19 Dec 2024 3:51 am
Operator : SV106:jg
Sample : L2473538-01,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 19 19:53:49 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241218RVT\ABN1218.D
: 2 - I:\8270\SV106\241218RVT\ADP1218.D
: 3 - I:\8270\SV106\241218RVT\AP91218.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Atrazine	0.000		0	N.D.		
91) Carbazole	0.000		0	N.D.		
92) Di-n-butylphthalate	0.000		0	N.D.	d	
97) Butyl benzyl phthalate	0.000		0	N.D.	d	
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
108) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
109) Di-n-octylphthalate	0.000		0	N.D.	d	

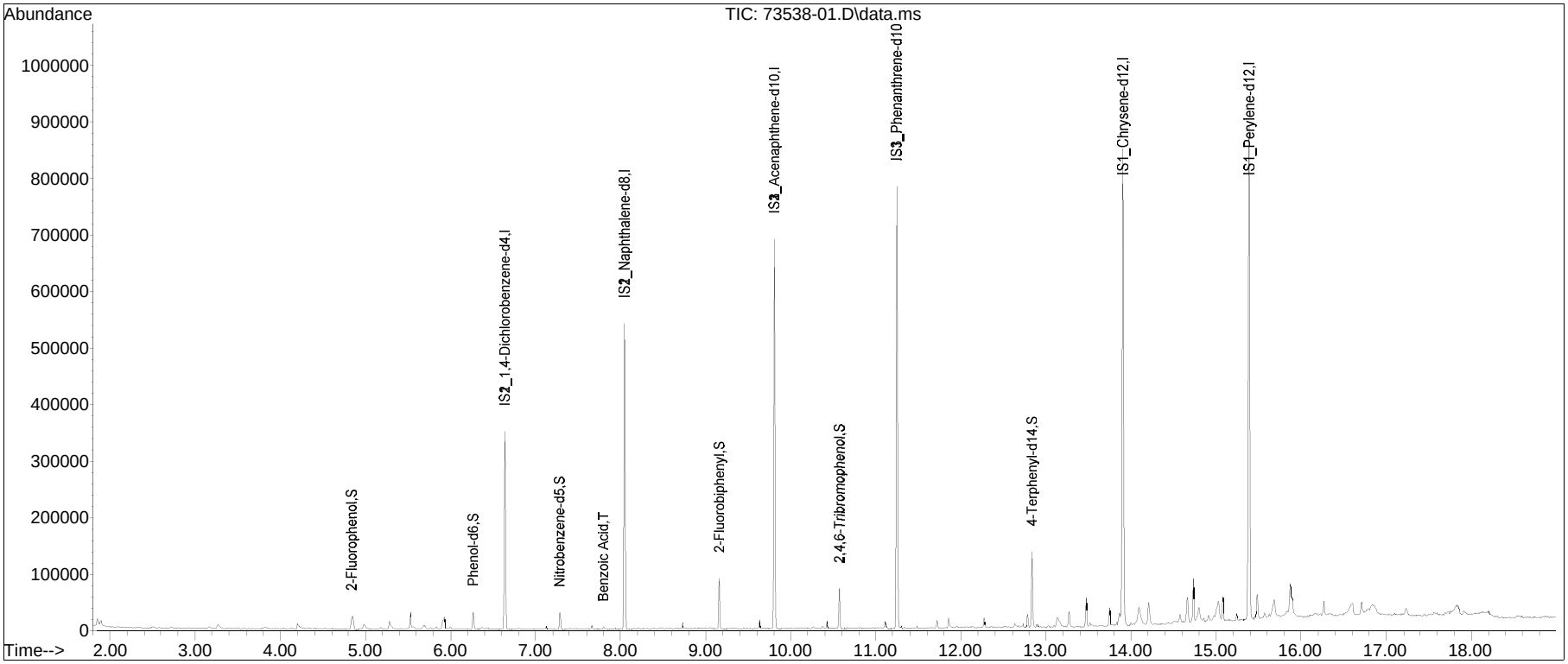
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241218RVT\
Data File : 73538-01.D
Acq On : 19 Dec 2024 3:51 am
Operator : SV106:jg
Sample : L2473538-01,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 19 19:53:49 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:14 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA91218.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241218RVT\	QMethod	: FS241009SV106.m
Data File	: 73538-01.D	Operator	: SV106:jg
Date Inj'd	: 12/19/2024 3:51 am	Instrument	: SV 106
Sample	: L2473538-01,32,,ASK	Quant Date	: 12/19/2024 4:11 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241218RVT\
Data File : 73538-02.D
Acq On : 19 Dec 2024 4:15 am
Operator : SV106:jg
Sample : L2473538-02,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 19 19:54:16 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241218RVT\ABN1218.D
: 2 - I:\8270\SV106\241218RVT\ADP1218.D
: 3 - I:\8270\SV106\241218RVT\AP91218.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.639	152	59728	4.000	ug/ml	0.00
Standard Area 1 = 49612			Recovery = 120.39%			
27) IS2_1,4-Dichlorobenzen...	6.639	152	59728	4.000	ug/ml	0.00
Standard Area 3 = 57665			Recovery = 103.58%			
35) IS1_Naphthalene-d8	8.045	136	244846	4.000	ug/ml	0.00
Standard Area 1 = 183058			Recovery = 133.75%			
55) IS2_Naphthalene-d8	8.045	136	244846	4.000	ug/ml	0.00
Standard Area 3 = 207211			Recovery = 118.16%			
63) IS1_Acenaphthene-d10	9.804	164	146325	4.000	ug/ml	0.00
Standard Area 1 = 122903			Recovery = 119.06%			
83) IS2_Acenaphthene-d10	9.804	164	146325	4.000	ug/ml	0.00
Standard Area 3 = 120872			Recovery = 121.06%			
86) IS3_Acenaphthene-d10	9.804	164	146325	4.000	ug/ml	0.00
Standard Area 2 = 113815			Recovery = 128.56%			
88) IS1_Phenanthrene-d10	11.245	188	304627	4.000	ug/ml	0.00
Standard Area 1 = 229574			Recovery = 132.69%			
100) IS3_Phenanthrene-d10	11.245	188	304627	4.000	ug/ml	0.00
Standard Area 2 = 236979			Recovery = 128.55%			
104) IS1_Chrysene-d12	13.904	240	309129	4.000	ug/ml	0.00
Standard Area 1 = 264435			Recovery = 116.90%			
113) IS1_Perylene-d12	15.380	264	360077	4.000	ug/ml	0.00
Standard Area 1 = 304444			Recovery = 118.27%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.845	112	13235	0.712	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 35.60%			
7) Phenol-d6	6.269	99	11125	0.497	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 24.85%			
19) Nitrobenzene-d5	7.286	82	9926	0.489	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 48.90%			
46) 2-Fluorobiphenyl	9.163	172	29759	0.525	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 52.50%			
79) 2,4,6-Tribromophenol	10.574	330	7596	0.918	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 45.90%			
96) 4-Terphenyl-d14	12.833	244	47373	0.579	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 57.90%			

Data Path : I:\8270\SV106\241218RVT\
Data File : 73538-02.D
Acq On : 19 Dec 2024 4:15 am
Operator : SV106:jg
Sample : L2473538-02,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 19 19:54:16 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241218RVT\ABN1218.D
: 2 - I:\8270\SV106\241218RVT\ADP1218.D
: 3 - I:\8270\SV106\241218RVT\AP91218.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.		
53) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.	d	
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.		
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241218RVT\
Data File : 73538-02.D
Acq On : 19 Dec 2024 4:15 am
Operator : SV106:jg
Sample : L2473538-02,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 19 19:54:16 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241218RVT\ABN1218.D
: 2 - I:\8270\SV106\241218RVT\ADP1218.D
: 3 - I:\8270\SV106\241218RVT\AP91218.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87)	Atrazine	0.000		0	N.D.		
91)	Carbazole	0.000		0	N.D.		
92)	Di-n-butylphthalate	0.000		0	N.D.	d	
97)	Butyl benzyl phthalate	0.000		0	N.D.		
106)	3,3'-Dichlorobenzidine	0.000		0	N.D.		
108)	Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
109)	Di-n-octylphthalate	0.000		0	N.D.	d	

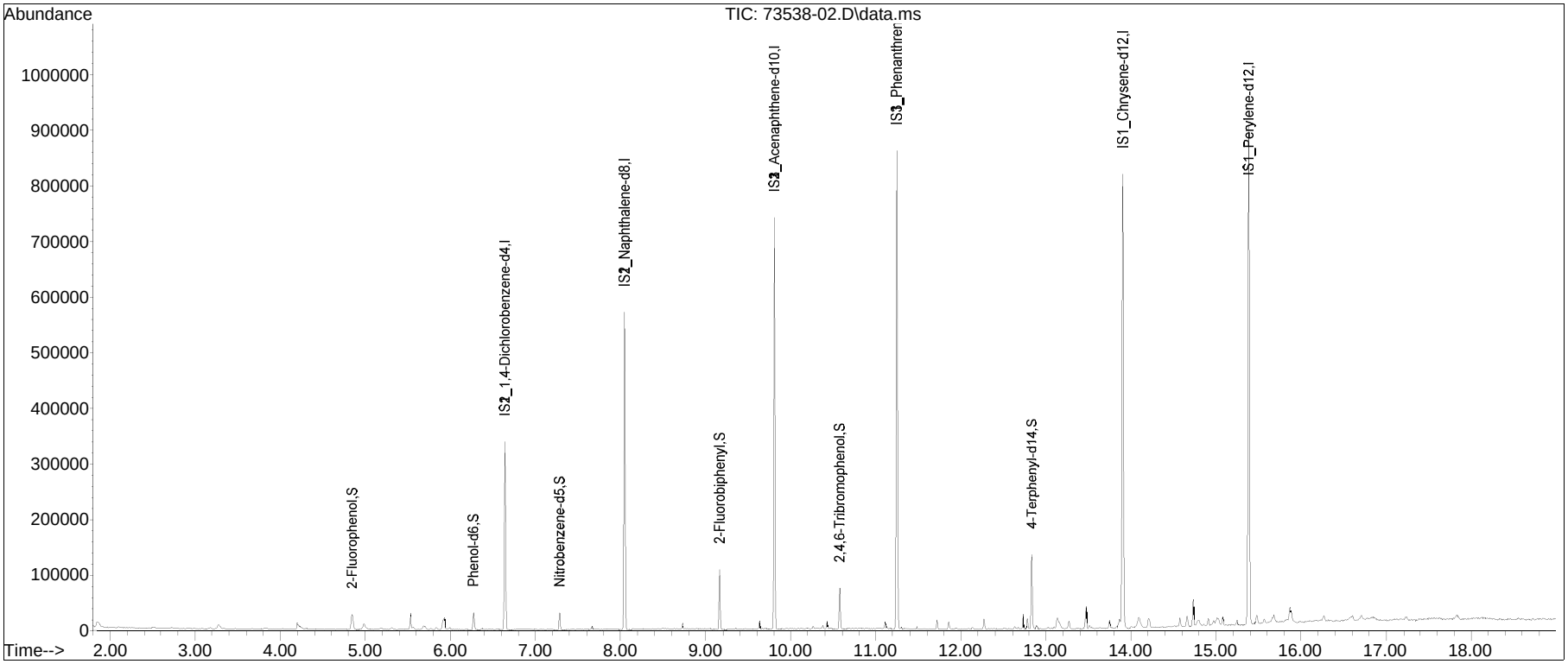
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241218RVT\
Data File : 73538-02.D
Acq On : 19 Dec 2024 4:15 am
Operator : SV106:jg
Sample : L2473538-02,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 19 19:54:16 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:14 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA91218.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241218RVT\	QMethod	: FS241009SV106.m
Data File	: 73538-02.D	Operator	: SV106:jg
Date Inj'd	: 12/19/2024 4:15 am	Instrument	: SV 106
Sample	: L2473538-02,32,,ASK	Quant Date	: 12/19/2024 4:34 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241218RVT\
Data File : 73538-03.D
Acq On : 19 Dec 2024 4:39 am
Operator : SV106:jg
Sample : L2473538-03,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 19 19:54:45 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241218RVT\ABN1218.D
: 2 - I:\8270\SV106\241218RVT\ADP1218.D
: 3 - I:\8270\SV106\241218RVT\AP91218.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.640	152	61909	4.000	ug/ml	0.00
Standard Area 1 = 49612			Recovery = 124.79%			
27) IS2_1,4-Dichlorobenzen...	6.640	152	61909	4.000	ug/ml	0.00
Standard Area 3 = 57665			Recovery = 107.36%			
35) IS1_Naphthalene-d8	8.045	136	251805	4.000	ug/ml	0.00
Standard Area 1 = 183058			Recovery = 137.55%			
55) IS2_Naphthalene-d8	8.045	136	251805	4.000	ug/ml	0.00
Standard Area 3 = 207211			Recovery = 121.52%			
63) IS1_Acenaphthene-d10	9.804	164	141697	4.000	ug/ml	0.00
Standard Area 1 = 122903			Recovery = 115.29%			
83) IS2_Acenaphthene-d10	9.804	164	141697	4.000	ug/ml	0.00
Standard Area 3 = 120872			Recovery = 117.23%			
86) IS3_Acenaphthene-d10	9.804	164	141697	4.000	ug/ml	0.00
Standard Area 2 = 113815			Recovery = 124.50%			
88) IS1_Phenanthrene-d10	11.245	188	307228	4.000	ug/ml	0.00
Standard Area 1 = 229574			Recovery = 133.83%			
100) IS3_Phenanthrene-d10	11.245	188	307228	4.000	ug/ml	0.00
Standard Area 2 = 236979			Recovery = 129.64%			
104) IS1_Chrysene-d12	13.904	240	335689	4.000	ug/ml	0.00
Standard Area 1 = 264435			Recovery = 126.95%			
113) IS1_Perylene-d12	15.380	264	366645	4.000	ug/ml	0.00
Standard Area 1 = 304444			Recovery = 120.43%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.846	112	13453	0.698	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 34.90%			
7) Phenol-d6	6.269	99	11949	0.515	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 25.75%			
19) Nitrobenzene-d5	7.281	82	10343	0.492	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 49.20%			
46) 2-Fluorobiphenyl	9.163	172	29310	0.503	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 50.30%			
79) 2,4,6-Tribromophenol	10.575	330	8366	1.044	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 52.20%			
96) 4-Terphenyl-d14	12.833	244	50112	0.608	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 60.80%			

Data Path : I:\8270\SV106\241218RVT\
Data File : 73538-03.D
Acq On : 19 Dec 2024 4:39 am
Operator : SV106:jg
Sample : L2473538-03,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 19 19:54:45 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241218RVT\ABN1218.D
: 2 - I:\8270\SV106\241218RVT\ADP1218.D
: 3 - I:\8270\SV106\241218RVT\AP91218.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	6.281	94	574	0.024	ug/ml#	1
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.		
53) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.	d	
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.		
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV106\241218RVT\
Data File : 73538-03.D
Acq On : 19 Dec 2024 4:39 am
Operator : SV106:jg
Sample : L2473538-03,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 19 19:54:45 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241218RVT\ABN1218.D
: 2 - I:\8270\SV106\241218RVT\ADP1218.D
: 3 - I:\8270\SV106\241218RVT\AP91218.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87)	Atrazine	0.000		0	N.D.		
91)	Carbazole	0.000		0	N.D.		
92)	Di-n-butylphthalate	0.000		0	N.D.	d	
97)	Butyl benzyl phthalate	0.000		0	N.D.		
106)	3,3'-Dichlorobenzidine	0.000		0	N.D.		
108)	Bis(2-ethylhexyl)phtha...	13.998	149	2695M2	0.039	ug/ml	
109)	Di-n-octylphthalate	0.000		0	N.D.	d	

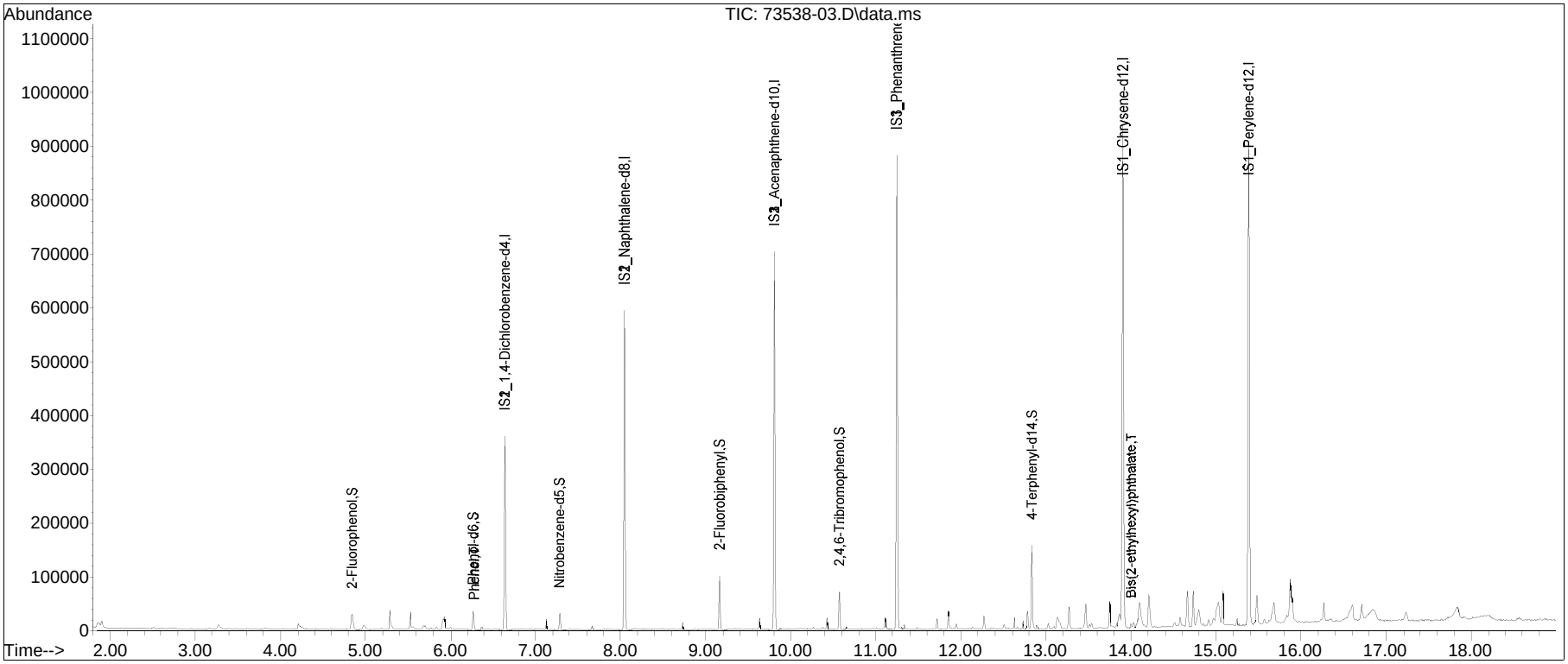
(#) = qualifier out of range (m) = manual integration (+) = signals summed

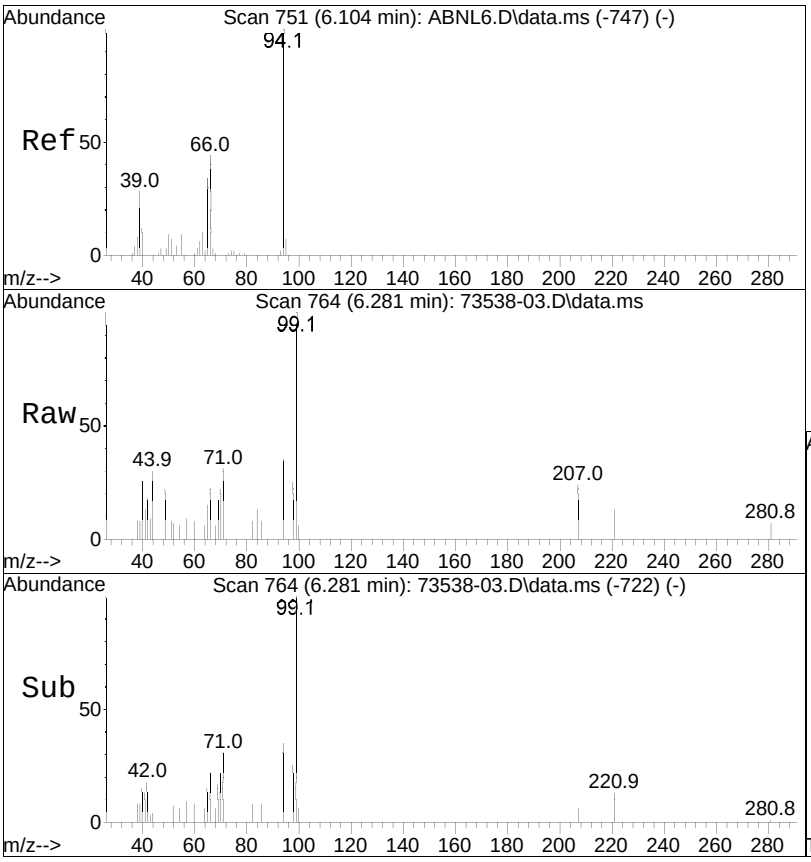
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241218RVT\
Data File : 73538-03.D
Acq On : 19 Dec 2024 4:39 am
Operator : SV106:jg
Sample : L2473538-03,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 19 19:54:45 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:14 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA91218.D•

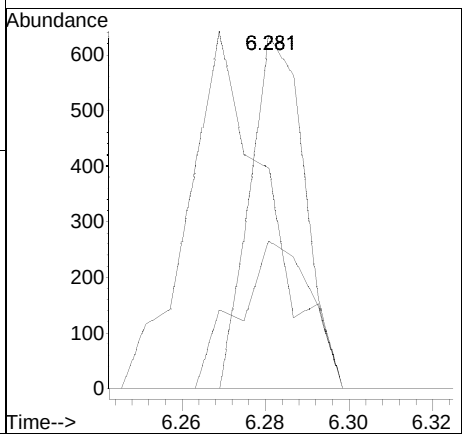


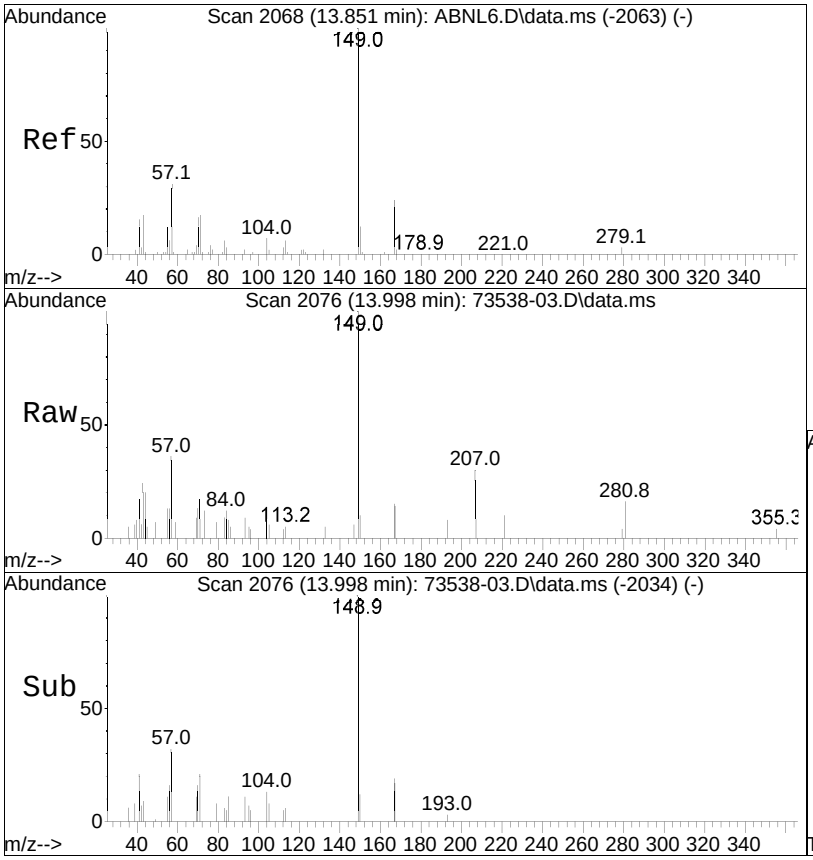


#8
Phenol
Concen: 0.02 ug/ml
RT: 6.281 min Scan# 764
Delta R.T. -0.006 min
Lab File: 73538-03.D
Acq: 19 Dec 2024 4:39 am

Tgt Ion: 94 Resp: 574

Ion	Ratio	Lower	Upper
94	100		
65	0.0	26.0	39.0#
66	146.9	33.8	50.8#

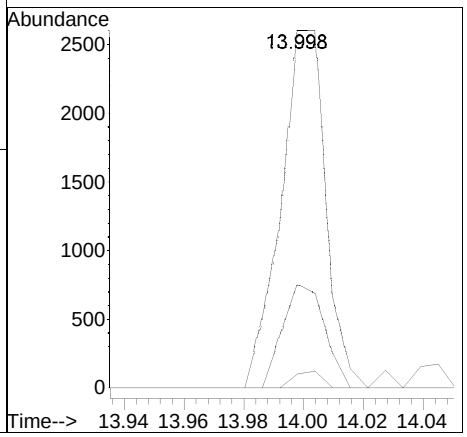




#108
Bis(2-ethylhexyl)phthalate
Concen: 0.04 ug/ml M2
RT: 13.998 min Scan# 2076
Delta R.T. -0.006 min
Lab File: 73538-03.D
Acq: 19 Dec 2024 4:39 am

Tgt Ion:149 Resp: 2695

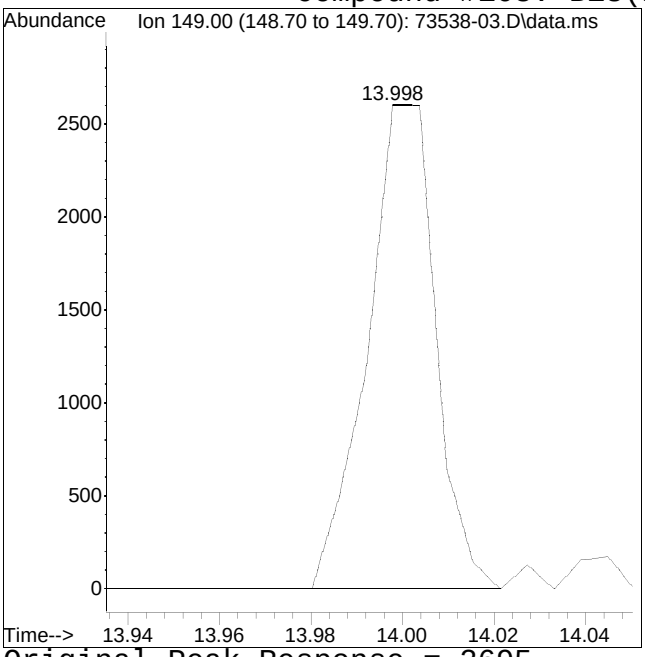
Ion	Ratio	Lower	Upper
149	100		
167	0.0	22.1	33.1#
279	0.0	3.0	4.4#



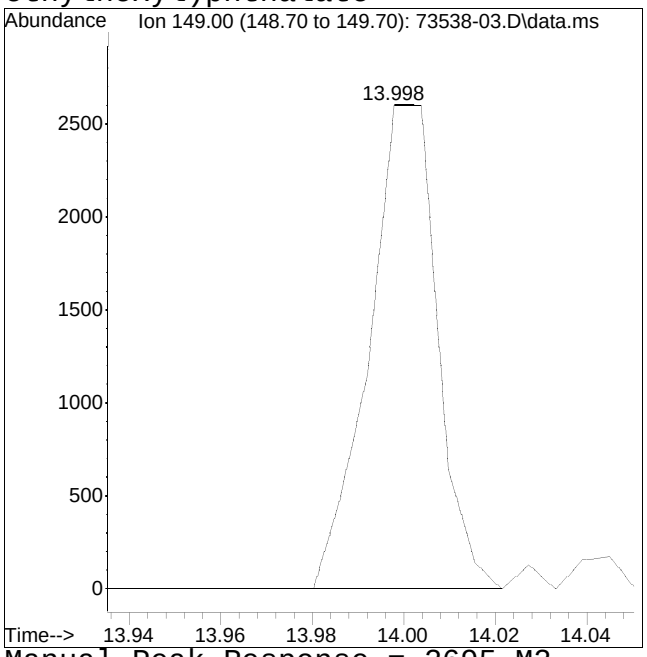
Manual Integration Report

Data Path	: I:\8270\SV106\241218RVT\	QMethod	: FS241009SV106.m
Data File	: 73538-03.D	Operator	: SV106:jg
Date Inj'd	: 12/19/2024 4:39 am	Instrument	: SV 106
Sample	: L2473538-03,32,,ASK	Quant Date	: 12/19/2024 4:58 am

Compound #108: Bis(2-ethylhexyl)phthalate



Original Peak Response = 2695



Manual Peak Response = 2695 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241218RVT\
Data File : 73538-04.D
Acq On : 19 Dec 2024 5:02 am
Operator : SV106:jg
Sample : L2473538-04,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 19 19:55:11 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241218RVT\ABN1218.D
: 2 - I:\8270\SV106\241218RVT\ADP1218.D
: 3 - I:\8270\SV106\241218RVT\AP91218.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.639	152	69698	4.000	ug/ml	0.00
Standard Area 1 = 49612			Recovery = 140.49%			
27) IS2_1,4-Dichlorobenzen...	6.639	152	69698	4.000	ug/ml	0.00
Standard Area 3 = 57665			Recovery = 120.87%			
35) IS1_Naphthalene-d8	8.045	136	262051	4.000	ug/ml	0.00
Standard Area 1 = 183058			Recovery = 143.15%			
55) IS2_Naphthalene-d8	8.045	136	262051	4.000	ug/ml	0.00
Standard Area 3 = 207211			Recovery = 126.47%			
63) IS1_Acenaphthene-d10	9.804	164	182256	4.000	ug/ml	0.00
Standard Area 1 = 122903			Recovery = 148.29%			
83) IS2_Acenaphthene-d10	9.804	164	182256	4.000	ug/ml	0.00
Standard Area 3 = 120872			Recovery = 150.78%			
86) IS3_Acenaphthene-d10	9.804	164	182256	4.000	ug/ml	0.00
Standard Area 2 = 113815			Recovery = 160.13%			
88) IS1_Phenanthrene-d10	11.245	188	357648	4.000	ug/ml	0.00
Standard Area 1 = 229574			Recovery = 155.79%			
100) IS3_Phenanthrene-d10	11.245	188	357648	4.000	ug/ml	0.00
Standard Area 2 = 236979			Recovery = 150.92%			
104) IS1_Chrysene-d12	13.904	240	361661	4.000	ug/ml	0.00
Standard Area 1 = 264435			Recovery = 136.77%			
113) IS1_Perylene-d12	15.386	264	421554	4.000	ug/ml	0.00
Standard Area 1 = 304444			Recovery = 138.47%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.851	112	13809	0.637	ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 31.85%			
7) Phenol-d6	6.269	99	11764	0.451	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 22.55%			
19) Nitrobenzene-d5	7.287	82	11060	0.467	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 46.70%			
46) 2-Fluorobiphenyl	9.163	172	33539	0.553	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 55.30%			
79) 2,4,6-Tribromophenol	10.575	330	9797	0.950	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 47.50%			
96) 4-Terphenyl-d14	12.833	244	53096	0.553	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 55.30%			

Data Path : I:\8270\SV106\241218RVT\
Data File : 73538-04.D
Acq On : 19 Dec 2024 5:02 am
Operator : SV106:jg
Sample : L2473538-04,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 19 19:55:11 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241218RVT\ABN1218.D
: 2 - I:\8270\SV106\241218RVT\ADP1218.D
: 3 - I:\8270\SV106\241218RVT\AP91218.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	6.287	94	2947	0.109	ug/ml#	86
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.		
53) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.	d	
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.		
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241218RVT\
Data File : 73538-04.D
Acq On : 19 Dec 2024 5:02 am
Operator : SV106:jg
Sample : L2473538-04,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 19 19:55:11 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241218RVT\ABN1218.D
: 2 - I:\8270\SV106\241218RVT\ADP1218.D
: 3 - I:\8270\SV106\241218RVT\AP91218.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87)	Atrazine	0.000		0	N.D.		
91)	Carbazole	0.000		0	N.D.		
92)	Di-n-butylphthalate	0.000		0	N.D.	d	
97)	Butyl benzyl phthalate	0.000		0	N.D.		
106)	3,3'-Dichlorobenzidine	0.000		0	N.D.		
108)	Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
109)	Di-n-octylphthalate	0.000		0	N.D.	d	

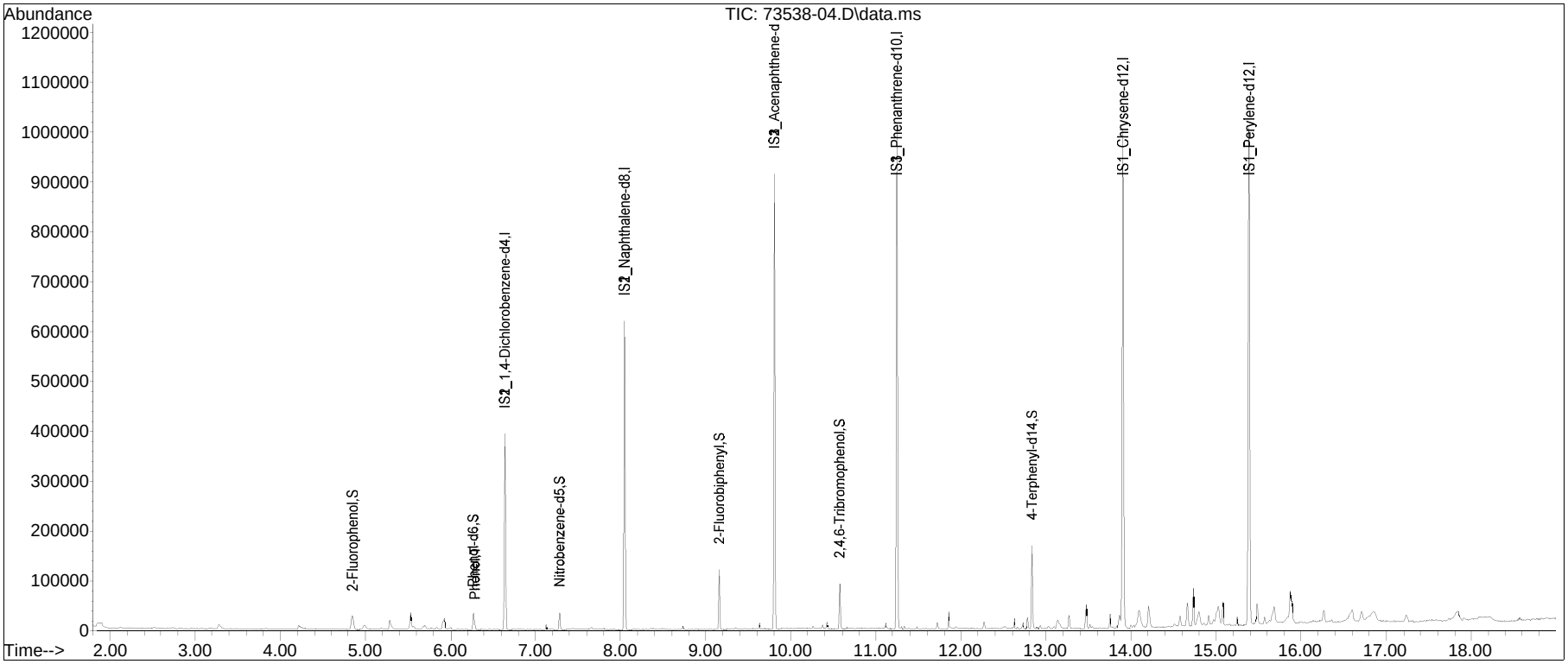
(#) = qualifier out of range (m) = manual integration (+) = signals summed

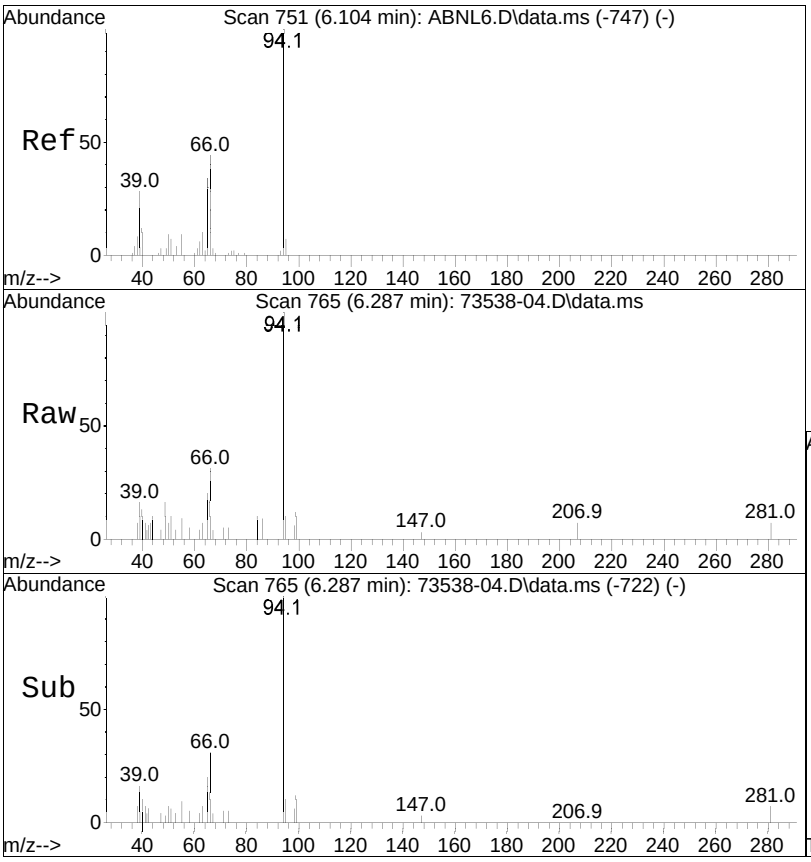
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241218RVT\
Data File : 73538-04.D
Acq On : 19 Dec 2024 5:02 am
Operator : SV106:jg
Sample : L2473538-04,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 19 19:55:11 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:14 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA91218.D•

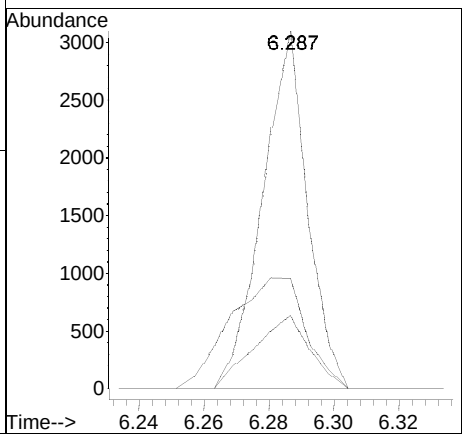




#8
Phenol
Concen: 0.11 ug/ml
RT: 6.287 min Scan# 765
Delta R.T. 0.000 min
Lab File: 73538-04.D
Acq: 19 Dec 2024 5:02 am

Tgt Ion: 94 Resp: 2947

Ion	Ratio	Lower	Upper
94	100		
65	25.6	26.0	39.0#
66	52.4	33.8	50.8#



Manual Integration Report

Data Path	: I:\8270\SV106\241218RVT\	QMethod	: FS241009SV106.m
Data File	: 73538-04.D	Operator	: SV106:jg
Date Inj'd	: 12/19/2024 5:02 am	Instrument	: SV 106
Sample	: L2473538-04,32,,ASK	Quant Date	: 12/19/2024 5:22 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241218RVT\
Data File : 73538-05.D
Acq On : 19 Dec 2024 5:26 am
Operator : SV106:jg
Sample : L2473538-05,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 19 19:55:31 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241218RVT\ABN1218.D
: 2 - I:\8270\SV106\241218RVT\ADP1218.D
: 3 - I:\8270\SV106\241218RVT\AP91218.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.640	152	66413	4.000	ug/ml	0.00
Standard Area 1 = 49612			Recovery = 133.86%			
27) IS2_1,4-Dichlorobenzen...	6.640	152	66413	4.000	ug/ml	0.00
Standard Area 3 = 57665			Recovery = 115.17%			
35) IS1_Naphthalene-d8	8.045	136	250745	4.000	ug/ml	0.00
Standard Area 1 = 183058			Recovery = 136.98%			
55) IS2_Naphthalene-d8	8.045	136	250745	4.000	ug/ml	0.00
Standard Area 3 = 207211			Recovery = 121.01%			
63) IS1_Acenaphthene-d10	9.804	164	143306	4.000	ug/ml	0.00
Standard Area 1 = 122903			Recovery = 116.60%			
83) IS2_Acenaphthene-d10	9.804	164	143306	4.000	ug/ml	0.00
Standard Area 3 = 120872			Recovery = 118.56%			
86) IS3_Acenaphthene-d10	9.804	164	143306	4.000	ug/ml	0.00
Standard Area 2 = 113815			Recovery = 125.91%			
88) IS1_Phenanthrene-d10	11.245	188	283407	4.000	ug/ml	0.00
Standard Area 1 = 229574			Recovery = 123.45%			
100) IS3_Phenanthrene-d10	11.245	188	283407	4.000	ug/ml	0.00
Standard Area 2 = 236979			Recovery = 119.59%			
104) IS1_Chrysene-d12	13.904	240	295300	4.000	ug/ml	0.00
Standard Area 1 = 264435			Recovery = 111.67%			
113) IS1_Perylene-d12	15.380	264	344107	4.000	ug/ml	0.00
Standard Area 1 = 304444			Recovery = 113.03%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.845	112	11268	0.545	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 27.25%			
7) Phenol-d6	6.269	99	10092	0.406	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 20.30%			
19) Nitrobenzene-d5	7.287	82	11282	0.500	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 50.00%			
46) 2-Fluorobiphenyl	9.163	172	25858	0.446	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 44.60%			
79) 2,4,6-Tribromophenol	10.575	330	6898	0.851	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 42.55%			
96) 4-Terphenyl-d14	12.833	244	45309	0.596	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 59.60%			

Data Path : I:\8270\SV106\241218RVT\
Data File : 73538-05.D
Acq On : 19 Dec 2024 5:26 am
Operator : SV106:jg
Sample : L2473538-05,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 19 19:55:31 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241218RVT\ABN1218.D
: 2 - I:\8270\SV106\241218RVT\ADP1218.D
: 3 - I:\8270\SV106\241218RVT\AP91218.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	6.281	94	3005	0.116	ug/ml#	83
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.		
53) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.		
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241218RVT\
Data File : 73538-05.D
Acq On : 19 Dec 2024 5:26 am
Operator : SV106:jg
Sample : L2473538-05,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 19 19:55:31 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241218RVT\ABN1218.D
: 2 - I:\8270\SV106\241218RVT\ADP1218.D
: 3 - I:\8270\SV106\241218RVT\AP91218.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Atrazine	0.000		0	N.D.		
91) Carbazole	0.000		0	N.D.		
92) Di-n-butylphthalate	0.000		0	N.D.	d	
97) Butyl benzyl phthalate	0.000		0	N.D.		
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
108) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
109) Di-n-octylphthalate	0.000		0	N.D.	d	

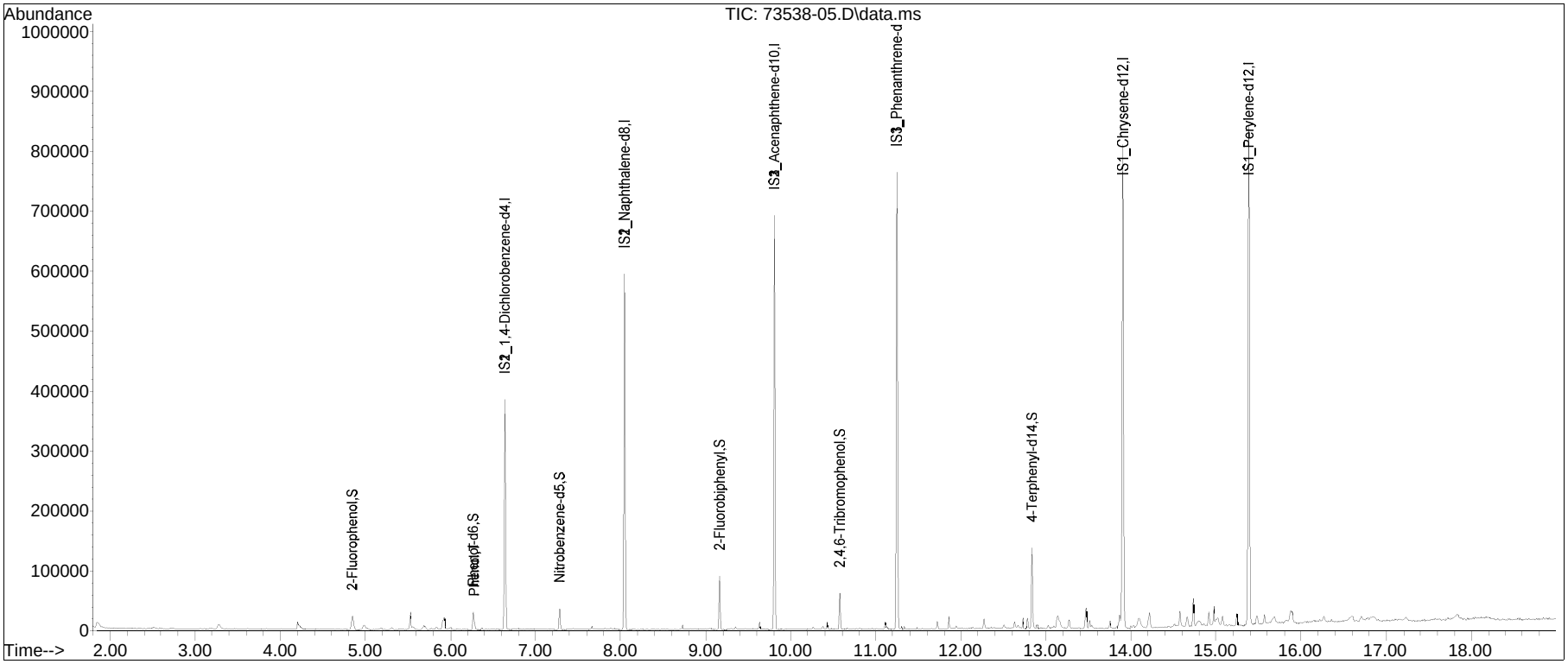
(#) = qualifier out of range (m) = manual integration (+) = signals summed

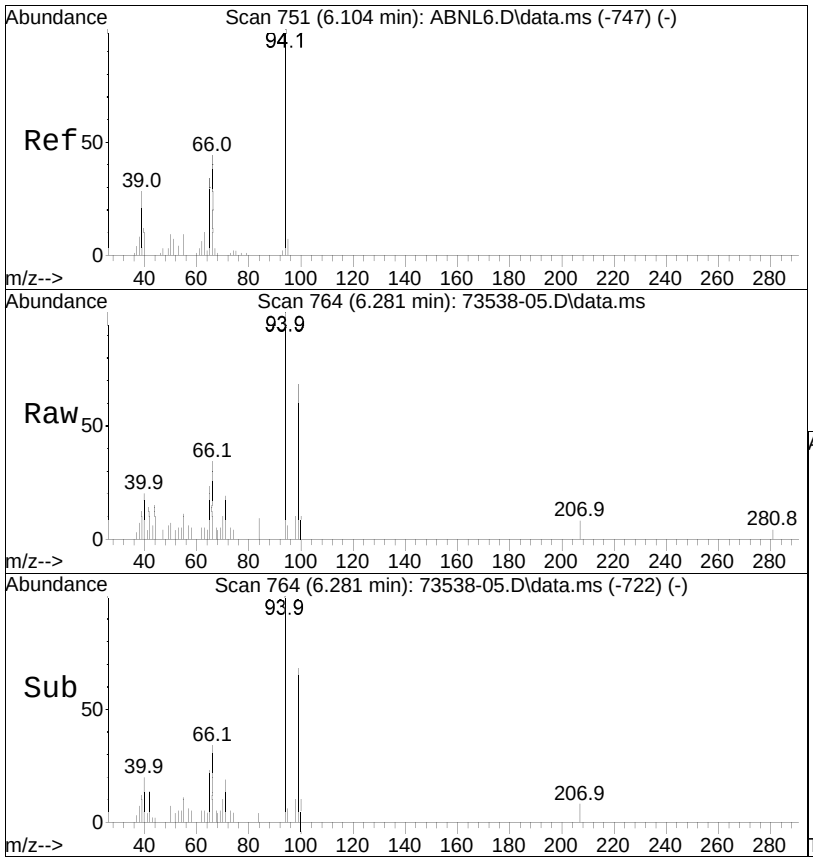
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241218RVT\
Data File : 73538-05.D
Acq On : 19 Dec 2024 5:26 am
Operator : SV106:jg
Sample : L2473538-05,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 19 19:55:31 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:14 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA91218.D•

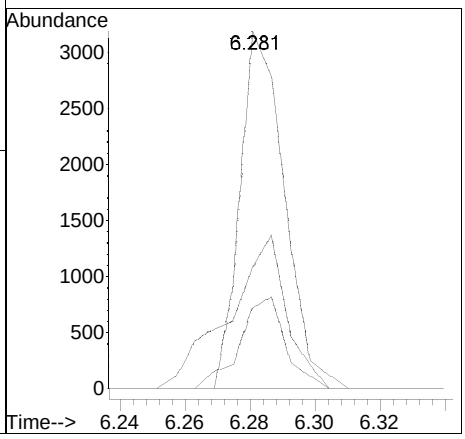




#8
Phenol
Concen: 0.12 ug/ml
RT: 6.281 min Scan# 764
Delta R.T. -0.006 min
Lab File: 73538-05.D
Acq: 19 Dec 2024 5:26 am

Tgt Ion: 94 Resp: 3005

Ion	Ratio	Lower	Upper
94	100		
65	26.7	26.0	39.0
66	56.4	33.8	50.8#



Manual Integration Report

Data Path	: I:\8270\SV106\241218RVT\	QMethod	: FS241009SV106.m
Data File	: 73538-05.D	Operator	: SV106:jg
Date Inj'd	: 12/19/2024 5:26 am	Instrument	: SV 106
Sample	: L2473538-05,32,,ASK	Quant Date	: 12/19/2024 5:45 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**	**: L2473538**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV106**	**Ical Ref**	**: ICAL21604**
Calibration dates	**: 10/09/24 20:07 10/11/24 15:53**		

Calibration Files
L1 =ADPL1.D L2 =ADPL2.D L3 =ADPL3.D L4 =ADPL4.D L5 =ABNL5.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	0.794	0.791	0.767	0.739	0.714	0.756	0.724	0.759	0.797	0.760	4.03
3)	t	Pyridine	1.259	1.357	1.206	1.165	1.167	1.210	1.166	1.206	1.233	1.219	4.99
4)	S	2-Fluorophenol	1.469	1.303	1.174	1.186	1.133	1.228	1.179	1.261	1.267	1.245	8.05
5)	T	Aniline	1.663	1.751	1.672	1.834	1.671	1.817	1.760	1.844	1.927	1.771	5.20
6)	t	2-Chlorophenol	1.427	1.504	1.219	1.353	1.263	1.386	1.328	1.380	1.426	1.365	6.39
7)	S	Phenol-d6	1.690	1.672	1.373	1.453	1.356	1.471	1.439	1.490	1.538	1.498	7.85
8)	T	Phenol	1.782	1.590	1.411	1.532	1.437	1.569	1.508	1.563	1.599	1.555	6.90
9)	T	bis(2-Chloroethyl)ether	1.547	1.430	1.155	1.205	1.157	1.290	1.215	1.243	1.282	1.280	10.18
10)	T	1,3-Dichlorobenzene	1.810	1.795	1.663	1.645	1.555	1.636	1.587	1.649	1.679	1.669	5.09
11)	T	1,4-Dichlorobenzene	1.853	1.897	1.663	1.742	1.547	1.652	1.586	1.663	1.696	1.700	6.76
12)	T	1,2-Dichlorobenzene	1.987	1.723	1.549	1.575	1.494	1.609	1.530	1.580	1.625	1.630	9.12
13)	t	Benzyl alcohol	1.155	1.145	0.982	1.001	0.932	1.064	1.047	1.076	1.140	1.060	7.40
14)	T	bis(2-chloroisopropyl)ether	2.486	2.142	1.894	2.011	1.807	1.970	1.888	1.935	1.990	2.014	9.94
15)	T	2-Methylphenol	1.240	1.140	1.057	1.085	1.025	1.140	1.101	1.148	1.174	1.123	5.75
16)	T	Hexachloroethane	0.710	0.636	0.598	0.613	0.559	0.601	0.584	0.612	0.612	0.614	6.85
17)	T	n-Nitrosodi-n-propylamine	1.069	1.007	0.853	0.911	0.822	0.960	0.916	0.940	0.985	0.940	8.11
18)	T	3-Methylphenol/4-Methylphenol	1.351	1.247	1.151	1.188	1.120	1.250	1.202	1.243	1.276	1.225	5.66
19)	S	Nitrobenzene-d5	1.664	1.365	1.257	1.277	1.207	1.373	1.329	1.366	1.397	1.359	9.59
20)	T	Nitrobenzene	1.673	1.444	1.291	1.318	1.233	1.384	1.363	1.378	1.417	1.389	8.97
21)	T	Isophorone	2.685	2.494	2.213	2.320	2.136	2.481	2.408	2.450	2.557	2.416	7.06
22)	T	2-Nitrophenol	0.725	0.742	0.599	0.681	0.644	0.752	0.721	0.771	0.778	0.713	8.43
23)	T	2,4-Dimethylphenol	1.273	1.164	1.053	1.089	1.008	1.124	1.080	1.101	1.174	1.119	6.94
24)	T	bis(2-Chloroethoxy)methane	1.915	1.579	1.540	1.620	1.443	1.643	1.577	1.573	1.636	1.614	7.92
25)	T	2,4-Dichlorophenol	1.404	1.292	1.102	1.201	1.140	1.303	1.232	1.275	1.302	1.250	7.39
26)	T	1,2,4-Trichlorobenzene	1.696	1.587	1.414	1.423	1.316	1.411	1.381	1.403	1.407	1.449	8.08
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------										
28)	T	Benzaldehyde	0.774	0.848	0.995	0.869	1.012	0.975	0.981	0.966	1.108	0.948	10.60
29)	T	Acetophenone	1.728	1.786	1.934	1.608	1.877	1.809	1.798	1.826	2.091	1.829	7.34
30)	T	m-Toluidine			1.396	1.351	1.634	1.628	1.682	1.683	1.912	1.612	11.74
31)	T	2-Chloroaniline	1.363	1.516	1.622	1.464	1.694	1.652	1.649	1.650	1.874	1.609	9.14
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------										
33)	t	1,4-Dioxane		0.609	0.450	0.607	0.439	0.395	0.462	0.456	0.466	0.485	16.26
34)	T	n-Decane		1.504	1.315	1.921	1.407	1.268	1.487	1.469	1.516	1.486	13.30
35)	I	IS1_Naphthalene-d8	----------ISTD----------										
36)	T	Naphthalene	1.353	1.228	1.064	1.107	1.009	1.089	1.067	1.105	1.142	1.129	9.13

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2473538**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV106**	**Ical Ref**	**: ICAL21604**
Calibration dates	**: 10/09/24 20:07 10/11/24 15:53**		

Calibration Files

L1 =ADPL1.D L2 =ADPL2.D L3 =ADPL3.D L4 =ADPL4.D L5 =ABNL5.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					0.158	0.213	0.243	0.276	0.289	*L	0.9994
38) T	4-Chloroaniline	0.123	0.144	0.111	0.131	0.114	0.129	0.126	0.130	0.132	0.127	7.95
39) T	Hexachlorobutadiene	0.255	0.262	0.221	0.246	0.219	0.239	0.226	0.235	0.245	0.239	6.22
40) T	p-Chloro-m-cresol	0.301	0.309	0.257	0.286	0.264	0.305	0.303	0.314	0.327	0.296	7.79
41) T	2-Methylnaphthalene	0.899	0.803	0.686	0.722	0.672	0.747	0.726	0.750	0.767	0.752	9.00
42) T	1-Methylnaphthalene	0.294	0.265	0.228	0.236	0.211	0.237	0.231	0.240	0.249	0.243	9.82
43) T	Hexachlorocyclopentadiene	0.266	0.278	0.246	0.258	0.238	0.261	0.259	0.268	0.283	0.262	5.37
44) T	2,4,6-Trichlorophenol	0.306	0.284	0.252	0.258	0.243	0.285	0.278	0.281	0.289	0.275	7.27
45) T	2,4,5-Trichlorophenol	0.288	0.304	0.254	0.278	0.261	0.288	0.287	0.293	0.311	0.285	6.49
46) S	2-Fluorobiphenyl	1.120	0.991	0.853	0.900	0.812	0.918	0.896	0.904	0.938	0.926	9.56
47) T	2-Chloronaphthalene	0.953	0.836	0.728	0.770	0.691	0.769	0.763	0.763	0.788	0.785	9.50
48) T	2-Nitroaniline	0.252	0.211	0.195	0.201	0.187	0.234	0.241	0.241	0.248	0.223	11.09
49) T	1,4-Dinitrobenzene	0.113	0.112	0.103	0.101	0.101	0.122	0.123	0.124	0.128	0.114	9.32
50) T	1,3-Dinitrobenzene	0.132	0.104	0.110	0.125	0.108	0.136	0.137	0.134	0.139	0.125	10.98
51) T	Dimethyl phthalate	1.062	0.944	0.878	0.892	0.815	0.943	0.906	0.876	0.916	0.915	7.39
52) T	Acenaphthylene	1.355	1.229	1.072	1.123	1.033	1.177	1.163	1.165	1.210	1.170	8.00
53) T	2,6-Dinitrotoluene	0.193	0.168	0.161	0.182	0.167	0.204	0.200	0.196	0.202	0.186	8.97
54) T	1,2-Dinitrobenzene	0.088	0.079	0.069	0.082	0.071	0.086	0.085	0.081	0.084	0.081	7.92
55) I	IS2_Naphthalene-d8	----------ISTD----------										
56) T	a-Terpineol	0.275	0.267	0.269	0.236	0.290	0.280	0.293	0.293	0.336	0.282	9.59
57) T	3-Chloroaniline	0.109	0.107	0.147	0.120	0.138	0.140	0.144	0.137	0.152	0.132	12.57
58) T	2,6-Dichlorophenol	0.244	0.282	0.299	0.262	0.307	0.310	0.320	0.315	0.361	0.300	11.42
59) T	1-chloro-2-nitrobenzene	0.128	0.138	0.151	0.127	0.151	0.146	0.151	0.149	0.169	0.145	9.06
60) T	Caprolactam		0.121	0.133	0.124	0.148	0.151	0.156	0.162	0.178	0.147	13.33
61) T	1,2,4,5-Tetrachlorobenzene	0.362	0.388	0.443	0.367	0.409	0.398	0.406	0.396	0.448	0.402	7.30
62) T	Biphenyl	0.800	0.845	0.953	0.829	0.952	0.925	0.914	0.914	1.032	0.907	7.94
63) I	IS1_Acenaphthene-d10	----------ISTD----------										
64) T	3-Nitroaniline	0.325	0.328	0.284	0.310	0.298	0.334	0.336	0.346	0.346	0.323	6.65
65) T	Acenaphthene	1.468	1.237	1.049	1.163	1.000	1.107	1.100	1.148	1.141	1.157	11.64
66) T	2,4-Dinitrophenol					0.141	0.198	0.224	0.241	0.249	*L	1.0000
67) T	Dibenzofuran	2.384	2.124	1.675	1.894	1.624	1.767	1.756	1.812	1.811	1.872	12.80
68) T	2,4-Dinitrotoluene	0.436	0.419	0.352	0.412	0.369	0.438	0.438	0.453	0.455	0.419	8.62
69) T	4-Nitrophenol	0.227	0.227	0.189	0.243	0.217	0.255	0.257	0.267	0.267	0.239	10.86
70) T	2,3,5,6-Tetrachlorophenol	0.372	0.380	0.337	0.377	0.357	0.406	0.418	0.432	0.435	0.390	8.75
71) T	2,3,4,6-Tetrachlorophenol	0.405	0.372	0.339	0.390	0.345	0.400	0.399	0.406	0.412	0.385	7.04
72) T	Diethyl phthalate	1.818	1.602	1.416	1.472	1.357	1.481	1.478	1.508	1.529	1.518	8.67

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2473538**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV106**	**Ical Ref**	**: ICAL21604**
Calibration dates	**: 10/09/24 20:07 10/11/24 15:53**		

Calibration Files

L1 =ADPL1.D L2 =ADPL2.D L3 =ADPL3.D L4 =ADPL4.D L5 =ABNL5.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	1.777	1.580	1.346	1.483	1.268	1.426	1.416	1.426	1.436	1.462	9.97
74)	T	4-Chlorophenyl-phenylether	0.990	0.829	0.702	0.742	0.632	0.721	0.710	0.716	0.711	0.750	13.75
75)	T	4-Nitroaniline	0.356	0.301	0.291	0.337	0.303	0.332	0.350	0.356	0.332	0.329	7.53
76)	T	4,6-Dinitro-o-cresol			0.168	0.203	0.212	0.263	0.285	0.300	0.308	*L	0.9982
77)	T	NDPA/DPA	1.502	1.304	1.165	1.267	1.112	1.256	1.247	1.245	1.253	1.261	8.51
78)	T	Azobenzene	1.440	1.309	1.095	1.233	1.093	1.238	1.207	1.226	1.252	1.232	8.53
79)	S	2,4,6-Tribromophenol	0.235	0.245	0.198	0.225	0.198	0.229	0.233	0.235	0.239	0.226	7.54
80)	T	4-Bromophenyl-phenylether	0.584	0.491	0.442	0.467	0.393	0.454	0.450	0.446	0.457	0.465	11.11
81)	T	Hexachlorobenzene	0.718	0.592	0.482	0.511	0.451	0.494	0.491	0.496	0.501	0.526	15.44
82)	T	Pentachlorophenol				0.264	0.266	0.325	0.342	0.351	0.363	0.319	13.63
83)	I	IS2_Acenaphthene-d10	----------ISTD----------										
84)	T	Dichloran			0.159	0.136	0.167	0.178	0.191	0.212	0.226	0.181	17.26
85)	T	Pentachloronitrobenzene	0.204	0.162	0.193	0.163	0.184	0.199	0.199	0.210	0.226	0.193	10.85
86)	I	IS3_Acenaphthene-d10	----------ISTD----------										
87)	T	Atrazine		0.376	0.330	0.478	0.406	0.394	0.422	0.452	0.462	0.415	11.80
88)	I	IS1_Phenanthrene-d10	----------ISTD----------										
89)	T	Phenanthrene	1.504	1.339	1.033	1.155	1.048	1.124	1.097	1.144	1.118	1.174	12.95
90)	T	Anthracene	1.494	1.253	1.052	1.135	1.049	1.116	1.111	1.171	1.151	1.170	11.63
91)	T	Carbazole	1.297	1.044	0.920	1.035	0.962	1.045	1.035	1.090	1.056	1.054	9.94
92)	T	Di-n-butylphthalate	1.460	1.281	1.142	1.233	1.152	1.352	1.379	1.432	1.438	1.319	9.27
93)	T	Fluoranthene	1.613	1.418	1.239	1.306	1.215	1.347	1.322	1.385	1.336	1.353	8.60
94)	T	Benzidine			0.595	0.722	0.695	0.841	0.850	0.871	0.857	0.776	13.67
95)	T	Pyrene	1.693	1.490	1.310	1.402	1.290	1.410	1.405	1.444	1.408	1.428	8.18
96)	S	4-Terphenyl-d14	1.298	1.156	0.979	1.043	0.954	1.059	1.053	1.072	1.048	1.073	9.45
97)	T	Butyl benzyl phthalate	0.554	0.490	0.442	0.498	0.483	0.600	0.617	0.646	0.660	0.555	14.35
98)	I	IS2_Phenanthrene-d10	----------ISTD----------										
99)	T	Diphenamid	0.461	0.460	0.464	0.452	0.481	0.530	0.521	0.569	0.607	0.505	10.94
100)	I	IS3_Phenanthrene-d10	----------ISTD----------										
101)	T	n-Octadecane		0.432	0.385	0.572	0.478	0.483	0.501	0.513	0.519	0.485	11.71
102)	T	Parathion		0.083	0.076	0.113	0.097	0.104	0.125	0.145	0.157	*Q	0.9979
103)	T	3,3'-Dimethylbenzidine				0.800	0.702	0.747	0.896	0.958		0.821	12.85
104)	I	IS1_Chrysene-d12	----------ISTD----------										
105)	T	Benzo[a]anthracene	1.766	1.533	1.218	1.308	1.238	1.316	1.294	1.390	1.349	1.379	12.46
106)	T	3,3'-Dichlorobenzidine	0.462	0.427	0.372	0.440	0.426	0.468	0.473	0.516	0.494	0.453	9.40
107)	T	Chrysene	1.714	1.447	1.236	1.320	1.201	1.260	1.208	1.295	1.232	1.324	12.45
108)	T	bis(2-Ethylhexyl)phthalate	0.830	0.764	0.664	0.758	0.765	0.896	0.898	0.925	0.952	0.828	11.62

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2473538**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV106**	**Ical Ref**	**: ICAL21604**
Calibration dates	**: 10/09/24 20:07 10/11/24 15:53**		

Calibration Files

L1 =ADPL1.D L2 =ADPL2.D L3 =ADPL3.D L4 =ADPL4.D L5 =ABNL5.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	1.260	1.251	1.050	1.157	1.225	1.506	1.554	1.655	1.700	1.373	17.03
110)	T	Benzo(b)fluoranthene	1.483	1.369	1.200	1.339	1.248	1.285	1.347	1.364	1.342	1.331	6.09
111)	T	Benzo(k)fluoranthene	1.430	1.322	1.109	1.208	1.121	1.257	1.124	1.332	1.254	1.240	8.91
112)	T	Benzo(a)pyrene	1.236	1.183	0.962	1.139	1.084	1.160	1.144	1.266	1.223	1.155	7.93
113)	I	IS1_Perylene-d12	----------ISTD----------										
114)	T	Indeno(1,2,3-cd)pyrene	1.397	1.246	1.043	1.161	1.132	1.211	1.255	1.319	1.150	1.213	8.75
115)	T	Dibenzo[a,h]anthracene	1.310	1.235	1.009	1.135	1.085	1.161	1.154	1.202	1.089	1.153	7.73
116)	T	Benzo(g,h,i)perylene	1.280	1.167	0.971	1.084	1.022	1.086	1.080	1.122	0.906	1.080	10.10

Response Factor Report SV 106

Method Path : I:\8270\SV106\241009RVTical\
Method File : FS241009SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Oct 16 05:38:35 2024
Response Via : Initial Calibration

Calibration Files
L1 =ADPL1.D L2 =ADPL2.D L3 =ADPL3.D L4 =ADPL4.D L5 =ABNL5.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	0.794	0.791	0.767	0.739	0.714	0.756	0.724	0.759	0.797	0.760	4.03
3)	t	Pyridine	1.259	1.357	1.206	1.165	1.167	1.210	1.166	1.206	1.233	1.219	4.99
4)	S	2-Fluorophenol	1.469	1.303	1.174	1.186	1.133	1.228	1.179	1.261	1.267	1.245	8.05
5)	T	Aniline	1.663	1.751	1.672	1.834	1.671	1.817	1.760	1.844	1.927	1.771	5.20
6)	t	2-Chlorophenol	1.427	1.504	1.219	1.353	1.263	1.386	1.328	1.380	1.426	1.365	6.39
7)	S	Phenol-d6	1.690	1.672	1.373	1.453	1.356	1.471	1.439	1.490	1.538	1.498	7.85
8)	T	Phenol	1.782	1.590	1.411	1.532	1.437	1.569	1.508	1.563	1.599	1.555	6.90
9)	T	bis(2-Chloroethyl)ether	1.547	1.430	1.155	1.205	1.157	1.290	1.215	1.243	1.282	1.280	10.18
10)	T	1,3-Dichlorobenzene	1.810	1.795	1.663	1.645	1.555	1.636	1.587	1.649	1.679	1.669	5.09
11)	T	1,4-Dichlorobenzene	1.853	1.897	1.663	1.742	1.547	1.652	1.586	1.663	1.696	1.700	6.76
12)	T	1,2-Dichlorobenzene	1.987	1.723	1.549	1.575	1.494	1.609	1.530	1.580	1.625	1.630	9.12
13)	t	Benzyl alcohol	1.155	1.145	0.982	1.001	0.932	1.064	1.047	1.076	1.140	1.060	7.40
14)	T	bis(2-chloroisopropyl)ether	2.486	2.142	1.894	2.011	1.807	1.970	1.888	1.935	1.990	2.014	9.94
15)	T	2-Methylphenol	1.240	1.140	1.057	1.085	1.025	1.140	1.101	1.148	1.174	1.123	5.75
16)	T	Hexachloroethane	0.710	0.636	0.598	0.613	0.559	0.601	0.584	0.612	0.612	0.614	6.85
17)	T	n-Nitrosodi-n-propylamine	1.069	1.007	0.853	0.911	0.822	0.960	0.916	0.940	0.985	0.940	8.11
18)	T	3-Methylphenol/4-Methylphenol	1.351	1.247	1.151	1.188	1.120	1.250	1.202	1.243	1.276	1.225	5.66
19)	S	Nitrobenzene-d5	1.664	1.365	1.257	1.277	1.207	1.373	1.329	1.366	1.397	1.359	9.59
20)	T	Nitrobenzene	1.673	1.444	1.291	1.318	1.233	1.384	1.363	1.378	1.417	1.389	8.97
21)	T	Isophorone	2.685	2.494	2.213	2.320	2.136	2.481	2.408	2.450	2.557	2.416	7.06
22)	T	2-Nitrophenol	0.725	0.742	0.599	0.681	0.644	0.752	0.721	0.771	0.778	0.713	8.43
23)	T	2,4-Dimethylphenol	1.273	1.164	1.053	1.089	1.008	1.124	1.080	1.101	1.174	1.119	6.94
24)	T	bis(2-Chloroethoxy)methane	1.915	1.579	1.540	1.620	1.443	1.643	1.577	1.573	1.636	1.614	7.92
25)	T	2,4-Dichlorophenol	1.404	1.292	1.102	1.201	1.140	1.303	1.232	1.275	1.302	1.250	7.39
26)	T	1,2,4-Trichlorobenzene	1.696	1.587	1.414	1.423	1.316	1.411	1.381	1.403	1.407	1.449	8.08
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------										
28)	T	Benzaldehyde	0.774	0.848	0.995	0.869	1.012	0.975	0.981	0.966	1.108	0.948	10.60
29)	T	Acetophenone	1.728	1.786	1.934	1.608	1.877	1.809	1.798	1.826	2.091	1.829	7.34
30)	T	m-Toluidine			1.396	1.351	1.634	1.628	1.682	1.683	1.912	1.612	11.74
31)	T	2-Chloroaniline	1.363	1.516	1.622	1.464	1.694	1.652	1.649	1.650	1.874	1.609	9.14
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------										
33)	t	1,4-Dioxane		0.609	0.450	0.607	0.439	0.395	0.462	0.456	0.466	0.485	16.26
34)	T	n-Decane		1.504	1.315	1.921	1.407	1.268	1.487	1.469	1.516	1.486	13.30
35)	I	IS1_Naphthalene-d8	----------ISTD----------										
36)	T	Naphthalene	1.353	1.228	1.064	1.107	1.009	1.089	1.067	1.105	1.142	1.129	9.13
37)	T	Benzoic Acid					0.158	0.213	0.243	0.276	0.289	*L	0.9994
38)	T	4-Chloroaniline	0.123	0.144	0.111	0.131	0.114	0.129	0.126	0.130	0.132	0.127	7.95
39)	T	Hexachlorobutadiene	0.255	0.262	0.221	0.246	0.219	0.239	0.226	0.235	0.245	0.239	6.22
40)	T	p-Chloro-m-cresol	0.301	0.309	0.257	0.286	0.264	0.305	0.303	0.314	0.327	0.296	7.79
41)	T	2-Methylnaphthalene	0.899	0.803	0.686	0.722	0.672	0.747	0.726	0.750	0.767	0.752	9.00
42)	T	1-Methylnaphthalene	0.294	0.265	0.228	0.236	0.211	0.237	0.231	0.240	0.249	0.243	9.82
43)	T	Hexachlorocyclopentadiene	0.266	0.278	0.246	0.258	0.238	0.261	0.259	0.268	0.283	0.262	5.37
44)	T	2,4,6-Trichlorophenol	0.306	0.284	0.252	0.258	0.243	0.285	0.278	0.281	0.289	0.275	7.27
45)	T	2,4,5-Trichlorophenol	0.288	0.304	0.254	0.278	0.261	0.288	0.287	0.293	0.311	0.285	6.49

Response Factor Report SV 106

Method Path : I:\8270\SV106\241009RVTical\
Method File : FS241009SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Oct 16 05:38:35 2024
Response Via : Initial Calibration

Calibration Files
L1 =ADPL1.D L2 =ADPL2.D L3 =ADPL3.D L4 =ADPL4.D L5 =ABNL5.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	1.120	0.991	0.853	0.900	0.812	0.918	0.896	0.904	0.938	0.926	9.56
47)	T	2-Chloronaphthalene	0.953	0.836	0.728	0.770	0.691	0.769	0.763	0.763	0.788	0.785	9.50
48)	T	2-Nitroaniline	0.252	0.211	0.195	0.201	0.187	0.234	0.241	0.241	0.248	0.223	11.09
49)	T	1,4-Dinitrobenzene	0.113	0.112	0.103	0.101	0.101	0.122	0.123	0.124	0.128	0.114	9.32
50)	T	1,3-Dinitrobenzene	0.132	0.104	0.110	0.125	0.108	0.136	0.137	0.134	0.139	0.125	10.98
51)	T	Dimethyl phthalate	1.062	0.944	0.878	0.892	0.815	0.943	0.906	0.876	0.916	0.915	7.39
52)	T	Acenaphthylene	1.355	1.229	1.072	1.123	1.033	1.177	1.163	1.165	1.210	1.170	8.00
53)	T	2,6-Dinitrotoluene	0.193	0.168	0.161	0.182	0.167	0.204	0.200	0.196	0.202	0.186	8.97
54)	T	1,2-Dinitrobenzene	0.088	0.079	0.069	0.082	0.071	0.086	0.085	0.081	0.084	0.081	7.92
55)	I	IS2_Naphthalene-d8	ISTD										
56)	T	a-Terpineol	0.275	0.267	0.269	0.236	0.290	0.280	0.293	0.293	0.336	0.282	9.59
57)	T	3-Chloroaniline	0.109	0.107	0.147	0.120	0.138	0.140	0.144	0.137	0.152	0.132	12.57
58)	T	2,6-Dichlorophenol	0.244	0.282	0.299	0.262	0.307	0.310	0.320	0.315	0.361	0.300	11.42
59)	T	1-chloro-2-nitrobenzene	0.128	0.138	0.151	0.127	0.151	0.146	0.151	0.149	0.169	0.145	9.06
60)	T	Caprolactam		0.121	0.133	0.124	0.148	0.151	0.156	0.162	0.178	0.147	13.33
61)	T	1,2,4,5-Tetrachlorobenzene	0.362	0.388	0.443	0.367	0.409	0.398	0.406	0.396	0.448	0.402	7.30
62)	T	Biphenyl	0.800	0.845	0.953	0.829	0.952	0.925	0.914	0.914	1.032	0.907	7.94
63)	I	IS1_Acenaphthene-d10	ISTD										
64)	T	3-Nitroaniline	0.325	0.328	0.284	0.310	0.298	0.334	0.336	0.346	0.346	0.323	6.65
65)	T	Acenaphthene	1.468	1.237	1.049	1.163	1.000	1.107	1.100	1.148	1.141	1.157	11.64
66)	T	2,4-Dinitrophenol					0.141	0.198	0.224	0.241	0.249	*L	1.0000
67)	T	Dibenzofuran	2.384	2.124	1.675	1.894	1.624	1.767	1.756	1.812	1.811	1.872	12.80
68)	T	2,4-Dinitrotoluene	0.436	0.419	0.352	0.412	0.369	0.438	0.438	0.453	0.455	0.419	8.62
69)	T	4-Nitrophenol	0.227	0.227	0.189	0.243	0.217	0.255	0.257	0.267	0.267	0.239	10.86
70)	T	2,3,5,6-Tetrachlorophenol	0.372	0.380	0.337	0.377	0.357	0.406	0.418	0.432	0.435	0.390	8.75
71)	T	2,3,4,6-Tetrachlorophenol	0.405	0.372	0.339	0.390	0.345	0.400	0.399	0.406	0.412	0.385	7.04
72)	T	Diethyl phthalate	1.818	1.602	1.416	1.472	1.357	1.481	1.478	1.508	1.529	1.518	8.67
73)	T	Fluorene	1.777	1.580	1.346	1.483	1.268	1.426	1.416	1.426	1.436	1.462	9.97
74)	T	4-Chlorophenyl-phenylether	0.990	0.829	0.702	0.742	0.632	0.721	0.710	0.716	0.711	0.750	13.75
75)	T	4-Nitroaniline	0.356	0.301	0.291	0.337	0.303	0.332	0.350	0.356	0.332	0.329	7.53
76)	T	4,6-Dinitro-o-cresol			0.168	0.203	0.212	0.263	0.285	0.300	0.308	*L	0.9982
77)	T	NDPA/DPA	1.502	1.304	1.165	1.267	1.112	1.256	1.247	1.245	1.253	1.261	8.51
78)	T	Azobenzene	1.440	1.309	1.095	1.233	1.093	1.238	1.207	1.226	1.252	1.232	8.53
79)	S	2,4,6-Tribromophenol	0.235	0.245	0.198	0.225	0.198	0.229	0.233	0.235	0.239	0.226	7.54
80)	T	4-Bromophenyl-phenylether	0.584	0.491	0.442	0.467	0.393	0.454	0.450	0.446	0.457	0.465	11.11
81)	T	Hexachlorobenzene	0.718	0.592	0.482	0.511	0.451	0.494	0.491	0.496	0.501	0.526	15.44
82)	T	Pentachlorophenol				0.264	0.266	0.325	0.342	0.351	0.363	0.319	13.63
83)	I	IS2_Acenaphthene-d10	ISTD										
84)	T	Dichloran			0.159	0.136	0.167	0.178	0.191	0.212	0.226	0.181	17.26
85)	T	Pentachloronitrobenzene	0.204	0.162	0.193	0.163	0.184	0.199	0.199	0.210	0.226	0.193	10.85
86)	I	IS3_Acenaphthene-d10	ISTD										
87)	T	Atrazine		0.376	0.330	0.478	0.406	0.394	0.422	0.452	0.462	0.415	11.80
88)	I	IS1_Phenanthrene-d10	ISTD										
89)	T	Phenanthrene	1.504	1.339	1.033	1.155	1.048	1.124	1.097	1.144	1.118	1.174	12.95
90)	T	Anthracene	1.494	1.253	1.052	1.135	1.049	1.116	1.111	1.171	1.151	1.170	11.63

Response Factor Report SV 106

Method Path : I:\8270\SV106\241009RVTical\
Method File : FS241009SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Oct 16 05:38:35 2024
Response Via : Initial Calibration

Calibration Files
L1 =ADPL1.D L2 =ADPL2.D L3 =ADPL3.D L4 =ADPL4.D L5 =ABNL5.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	1.297	1.044	0.920	1.035	0.962	1.045	1.035	1.090	1.056	1.054	9.94
92)	T	Di-n-butylphthalate	1.460	1.281	1.142	1.233	1.152	1.352	1.379	1.432	1.438	1.319	9.27
93)	T	Fluoranthene	1.613	1.418	1.239	1.306	1.215	1.347	1.322	1.385	1.336	1.353	8.60
94)	T	Benzidine			0.595	0.722	0.695	0.841	0.850	0.871	0.857	0.776	13.67
95)	T	Pyrene	1.693	1.490	1.310	1.402	1.290	1.410	1.405	1.444	1.408	1.428	8.18
96)	S	4-Terphenyl-d14	1.298	1.156	0.979	1.043	0.954	1.059	1.053	1.072	1.048	1.073	9.45
97)	T	Butyl benzyl phthalate	0.554	0.490	0.442	0.498	0.483	0.600	0.617	0.646	0.660	0.555	14.35
98)	I	IS2_Phenanthrene-d10	ISTD										
99)	T	Diphenamid	0.461	0.460	0.464	0.452	0.481	0.530	0.521	0.569	0.607	0.505	10.94
100)	I	IS3_Phenanthrene-d10	ISTD										
101)	T	n-Octadecane		0.432	0.385	0.572	0.478	0.483	0.501	0.513	0.519	0.485	11.71
102)	T	Parathion		0.083	0.076	0.113	0.097	0.104	0.125	0.145	0.157	*Q	0.9979
103)	T	3,3'-Dimethylbenzidine				0.800	0.702	0.747	0.896	0.958		0.821	12.85
104)	I	IS1_Chrysene-d12	ISTD										
105)	T	Benzo[a]anthracene	1.766	1.533	1.218	1.308	1.238	1.316	1.294	1.390	1.349	1.379	12.46
106)	T	3,3'-Dichlorobenzidine	0.462	0.427	0.372	0.440	0.426	0.468	0.473	0.516	0.494	0.453	9.40
107)	T	Chrysene	1.714	1.447	1.236	1.320	1.201	1.260	1.208	1.295	1.232	1.324	12.45
108)	T	bis(2-Ethylhexyl)phthalate	0.830	0.764	0.664	0.758	0.765	0.896	0.898	0.925	0.952	0.828	11.62
109)	T	Di-n-octylphthalate	1.260	1.251	1.050	1.157	1.225	1.506	1.554	1.655	1.700	1.373	17.03
110)	T	Benzo(b)fluoranthene	1.483	1.369	1.200	1.339	1.248	1.285	1.347	1.364	1.342	1.331	6.09
111)	T	Benzo(k)fluoranthene	1.430	1.322	1.109	1.208	1.121	1.257	1.124	1.332	1.254	1.240	8.91
112)	T	Benzo(a)pyrene	1.236	1.183	0.962	1.139	1.084	1.160	1.144	1.266	1.223	1.155	7.93
113)	I	IS1_Perylene-d12	ISTD										
114)	T	Indeno(1,2,3-cd)pyrene	1.397	1.246	1.043	1.161	1.132	1.211	1.255	1.319	1.150	1.213	8.75
115)	T	Dibenzo[a,h]anthracene	1.310	1.235	1.009	1.135	1.085	1.161	1.154	1.202	1.089	1.153	7.73
116)	T	Benzo(g,h,i)perylene	1.280	1.167	0.971	1.084	1.022	1.086	1.080	1.122	0.906	1.080	10.10

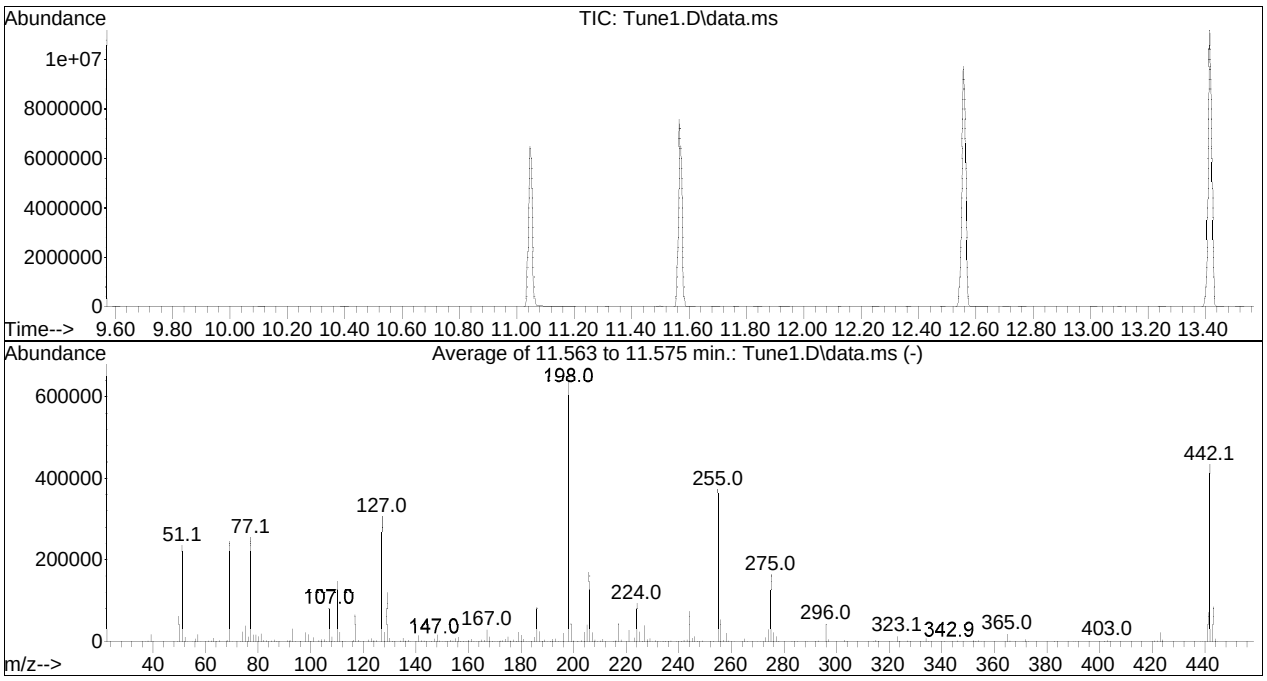
(#) = Out of Range

DFTPP

Data Path : I:\8270\SV106\241009RVTical\
Data File : Tune1.D
Acq On : 9 Oct 2024 7:43 pm
Operator : SV106:HNY
Sample : Tune1 Lot# 11080
Misc : WG1984388
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Oct 11 18:38:05 2024



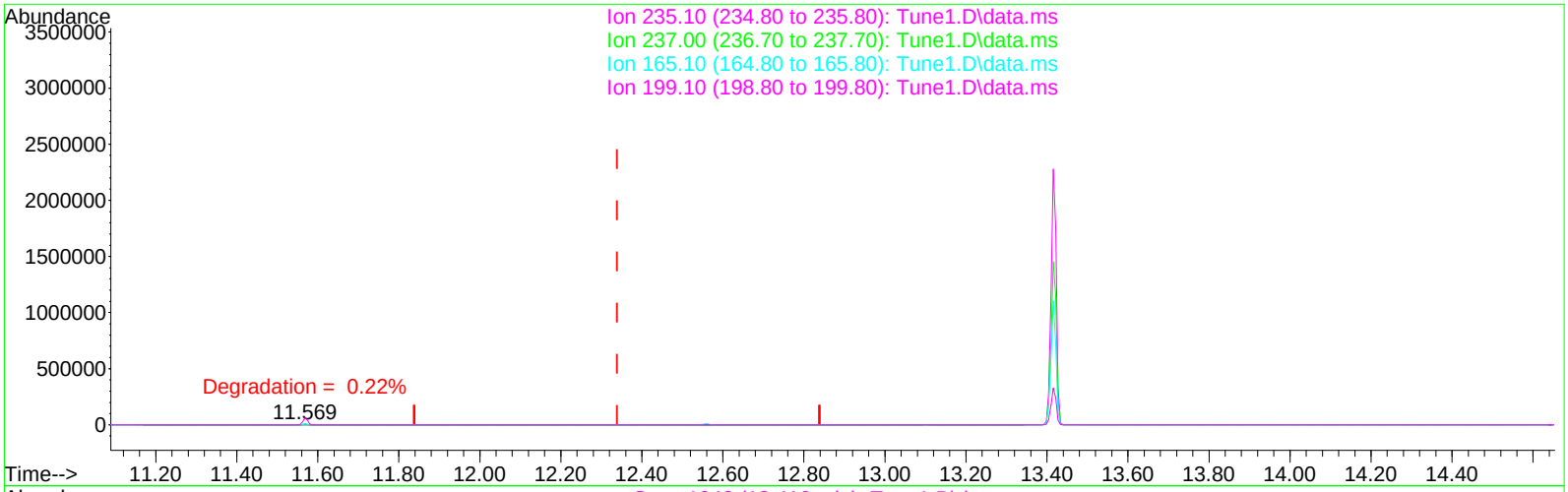
Spectrum Information: Average of 11.563 to 11.575 min.

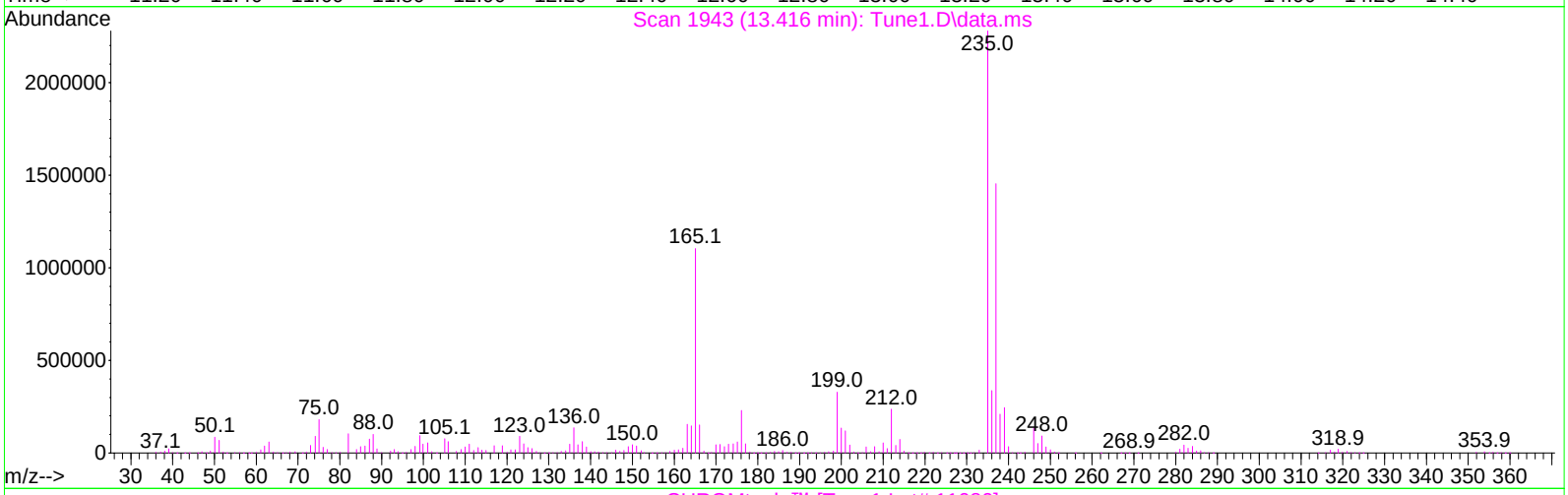
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.3	235008	PASS
68	69	0.00	2	1.7	4243	PASS
69	69	100	100	100.0	246197	PASS
70	69	0.00	2	0.5	1173	PASS
127	198	10	80	47.3	305899	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	647189	PASS
199	198	5	9	6.9	44368	PASS
275	198	10	60	25.3	163643	PASS
365	198	1	100	2.8	17966	PASS
441	442	0.01	24	16.2	70368	PASS
442	198	50	100	66.9	433096	PASS
443	442	15	24	19.5	84349	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\241009RVTical\
Data File : Tune1.D
Acq On : 9 Oct 2024 7:43 pm
Operator : SV106:HNY
Sample : Tune1 Lot# 11080
Misc : WG1984388
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 09 20:05:38 2024
Quant Method : I:\8270\SV106\241009RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Oct 06 06:11:48 2024
Response via : Initial Calibration





CHROMtools™ [Tune1 Lot# 11080]

(6) DDT (T)

13.416min (+ 1.077) 339.80 M2

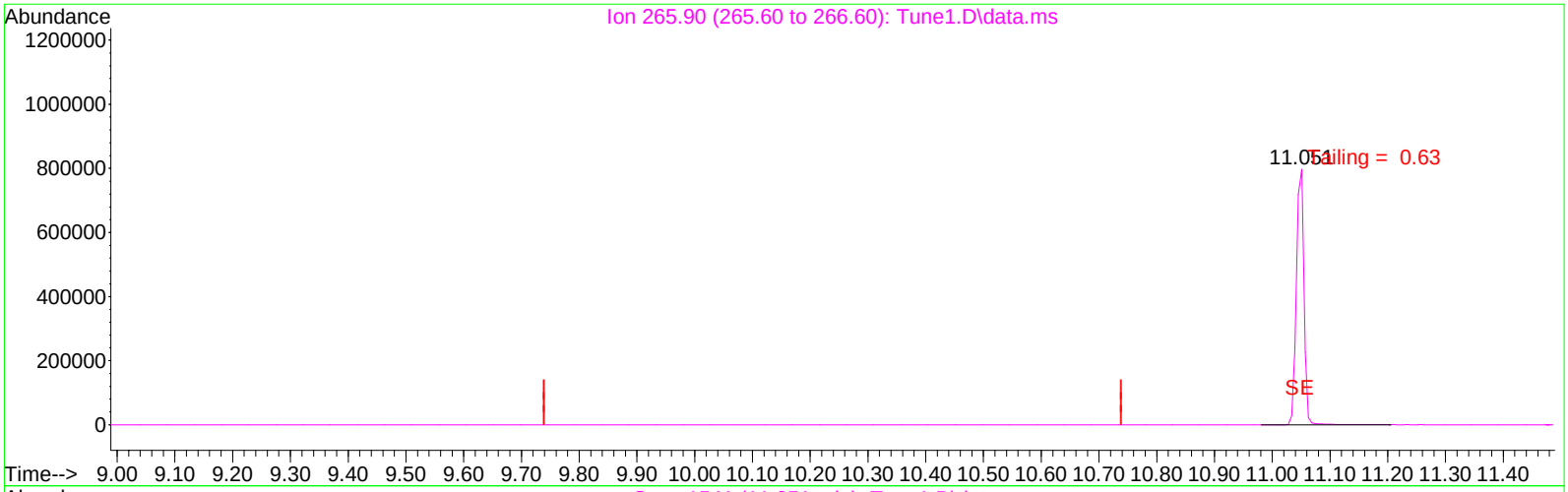
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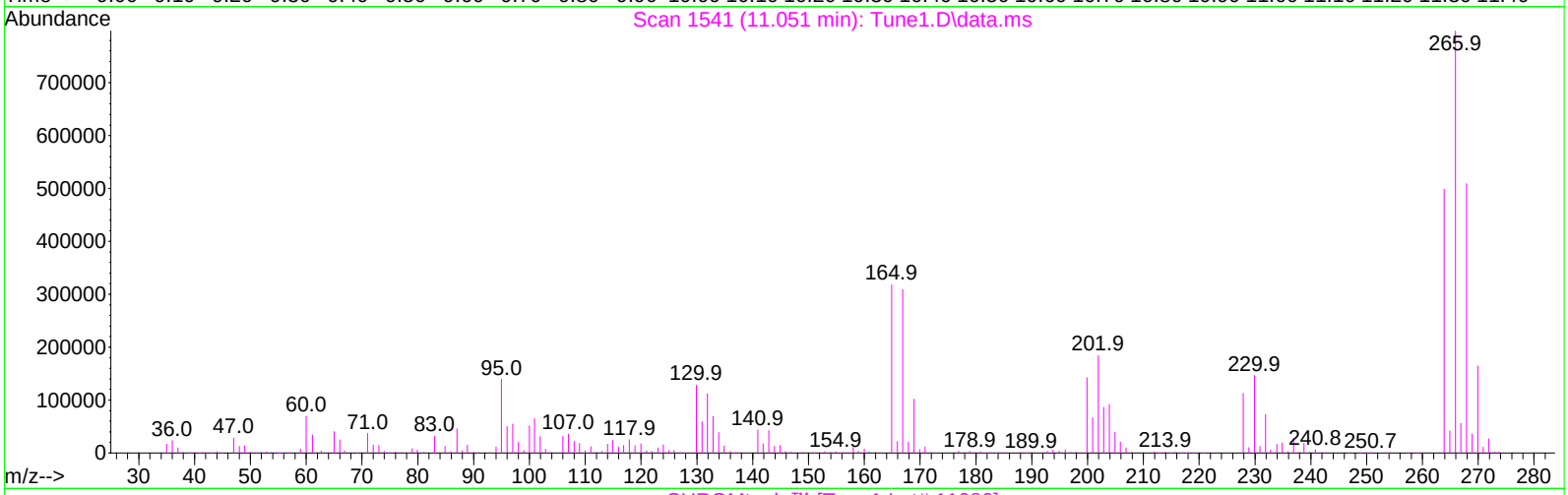
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.30	0.00#
165.10	44.50	0.00#
199.10	14.80	0.00#

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\241009RVTical\
Data File : Tune1.D
Acq On : 9 Oct 2024 7:43 pm
Operator : SV106:HNY
Sample : Tune1 Lot# 11080
Misc : WG1984388
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 09 20:05:38 2024
Quant Method : I:\8270\SV106\241009RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Oct 06 06:11:48 2024
Response via : Initial Calibration





CHROMtools™ [Tune1 Lot# 11080]

(1) Pentachlorophenol (T)

11.051min (+ 0.812) 346.47 M2

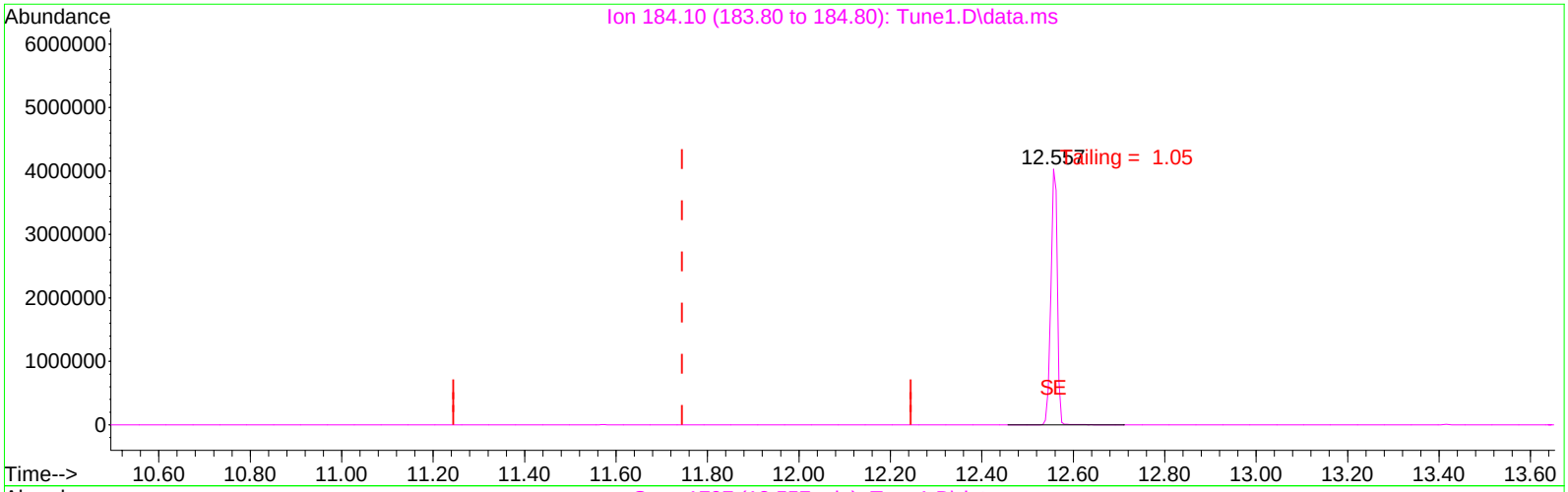
response 727717

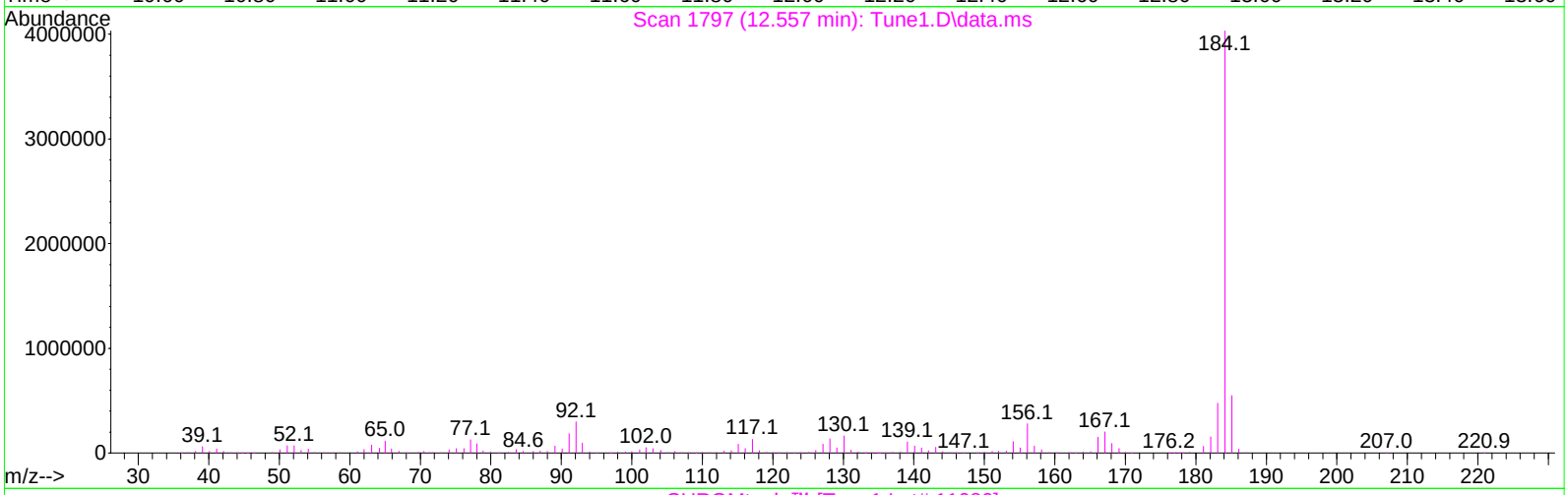
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\241009RVTical\
Data File : Tune1.D
Acq On : 9 Oct 2024 7:43 pm
Operator : SV106:HNY
Sample : Tune1 Lot# 11080
Misc : WG1984388
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 09 20:05:38 2024
Quant Method : I:\8270\SV106\241009RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Oct 06 06:11:48 2024
Response via : Initial Calibration





CHROMtools™ [Tune1 Lot# 11080]

(3) Benzidine (T)

12.557min (+ 0.812) 386.56 M2

response 3935254

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL9.D
Acq On : 9 Oct 2024 8:07 pm
Operator : SV106:HNY
Sample : IL2,32,,ABNL50 Lot# 11004
Misc : WG1984388
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 11 11:41:27 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.598	152	74560	4.000	ug/ml	# 0.00
Standard Area 1 = 69296			Recovery = 107.60%			
35) IS1_Naphthalene-d8	8.016	136	275431	4.000	ug/ml	0.00
Standard Area 1 = 264583			Recovery = 104.10%			
63) IS1_Acenaphthene-d10	9.775	164	170378	4.000	ug/ml	0.00
Standard Area 1 = 166975			Recovery = 102.04%			
88) IS1_Phenanthrene-d10	11.222	188	335783	4.000	ug/ml	0.00
Standard Area 1 = 326455			Recovery = 102.86%			
104) IS1_Chrysene-d12	13.880	240	360598	4.000	ug/ml	0.01
Standard Area 1 = 353807			Recovery = 101.92%			
113) IS1_Perylene-d12	15.357	264	385048	4.000	ug/ml	0.01
Standard Area 1 = 379737			Recovery = 101.40%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.769	112	1181054	54.805	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 2740.25%#			
7) Phenol-d6	6.239	99	1433009	48.575	ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 2428.75%#			
19) Nitrobenzene-d5	7.251	82	1301740	43.145	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 4314.50%#			
46) 2-Fluorobiphenyl	9.133	172	3230002	45.667	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 4566.70%#			
79) 2,4,6-Tribromophenol	10.551	330	509334	47.965	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 2398.25%#			
96) 4-Terphenyl-d14	12.810	244	4398016	48.711	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 4871.10%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.299	74	743161	46.837	ug/ml#	67
3) Pyridine	2.328	79	1149105	44.275	ug/ml#	66
5) Aniline	6.204	93	1796082	47.037	ug/ml	95
6) 2-Chlorophenol	6.345	128	1329194	55.372	ug/ml	92
8) Phenol	6.257	94	1490044	48.690	ug/ml	97
9) Bis(2-chloroethyl)ether	6.328	93	1194874	47.543	ug/ml#	85
10) 1,3-Dichlorobenzene	6.528	146	1564709	54.281	ug/ml	98
11) 1,4-Dichlorobenzene	6.622	146	1580351	54.177	ug/ml	98
12) 1,2-Dichlorobenzene	6.798	146	1514293	53.367	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL9.D
Acq On : 9 Oct 2024 8:07 pm
Operator : SV106:HNY
Sample : IL2,32,,ABNL50 Lot# 11004
Misc : WG1984388
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 11 11:41:27 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.810	79	1062645	44.979	ug/ml	98
14) Bis(2-chloroisopropyl)...	6.975	45	1854894	45.939	ug/ml#	56
15) 2-Methylphenol	6.969	108	1094022	49.632	ug/ml	98
16) Hexachloroethane	7.181	117	570349	49.138	ug/ml#	60
17) n-Nitrosodi-n-propylamine	7.128	70	918268	46.610	ug/ml	96
18) 3-Methylphenol/4-Methy...	7.157	108	1188802	49.866	ug/ml	98
20) Nitrobenzene	7.275	77	1320199	43.102	ug/ml	97
21) Isophorone	7.551	82	2383423	46.326	ug/ml	98
22) 2-Nitrophenol	7.622	139	724763	56.207	ug/ml	88
23) 2,4-Dimethylphenol	7.722	107	1094240	45.107	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.816	93	1524948	46.018	ug/ml	98
25) 2,4-Dichlorophenol	7.886	162	1213671	52.808	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.969	180	1311393	46.591	ug/ml	96
36) Naphthalene	8.034	128	3930303	49.776	ug/ml	100
37) Benzoic Acid	7.904	105	996641	43.900	ug/ml	95
38) 4-Chloroaniline	8.116	65	454739	39.063	ug/ml	74
39) Hexachlorobutadiene	8.198	225	843919	40.496	ug/ml	99
40) p-Chloro-m-cresol	8.633	107	1126014	47.727	ug/ml	96
41) 2-Methylnaphthalene	8.751	142	2641293	50.193	ug/ml	97
42) 1-Methylnaphthalene	8.845	115	857123	42.892	ug/ml	96
43) Hexachlorocyclopentadiene	8.922	237	973395	42.107	ug/ml	99
44) 2,4,6-Trichlorophenol	9.045	196	996484	48.151	ug/ml	99
45) 2,4,5-Trichlorophenol	9.075	196	1070945	48.327	ug/ml	98
47) 2-Chloronaphthalene	9.228	162	2714409	48.509	ug/ml	96
48) 2-Nitroaniline	9.345	138	852481	50.567	ug/ml#	82
49) 1,4-Dinitrobenzene	9.480	168	440415	49.639	ug/ml#	72
50) 1,3-Dinitrobenzene	9.557	168	478257	47.303	ug/ml#	1
51) Dimethyl phthalate	9.557	163	3153002	46.298	ug/ml#	99
52) Acenaphthylene	9.633	152	4167487	48.652	ug/ml	100
53) 2,6-Dinitrotoluene	9.592	165	695345	47.422	ug/ml#	72
54) 1,2-Dinitrobenzene	9.645	168	289559	46.313	ug/ml#	1
64) 3-Nitroaniline	9.751	138	736995	54.177	ug/ml#	90
65) Acenaphthene	9.810	154	2430167	49.498	ug/ml	92
66) 2,4-Dinitrophenol	9.851	184	531316	58.485	ug/ml#	84
67) Dibenzofuran	9.980	168	3856625	46.767	ug/ml	95
68) 2,4-Dinitrotoluene	9.986	165	969550	47.938	ug/ml	86
69) 4-Nitrophenol	9.939	65	568465	41.265	ug/ml#	81
70) 2,3,5,6-Tetrachlorophenol	10.069	232	926636	48.111	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL9.D
Acq On : 9 Oct 2024 8:07 pm
Operator : SV106:HNY
Sample : IL2,32,,ABNL50 Lot# 11004
Misc : WG1984388
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 11 11:41:27 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	10.110	232	877466	47.364	ug/ml		98
72)	Diethyl phthalate	10.251	149	3256771	49.991	ug/ml		99
73)	Fluorene	10.316	166	3057557	47.146	ug/ml		94
74)	4-Chlorophenyl phenyl ...	10.327	204	1515059	44.387	ug/ml		90
75)	4-Nitroaniline	10.357	138	706331	49.872	ug/ml		82
76)	4,6-Dinitro-o-cresol	10.386	198	655908	57.857	ug/ml	#	59
77)	NDPA/DPA	10.451	169	2667684	49.606	ug/ml		99
78)	Azobenzene	10.486	77	2665664	43.282	ug/ml	#	92
80)	4-Bromophenyl phenyl e...	10.804	248	973702M3	45.721	ug/ml		
81)	Hexachlorobenzene	10.857	284	1067806	44.080	ug/ml	#	82
82)	Pentachlorophenol	11.051	266	773904	50.305	ug/ml		99
89)	Phenanthrene	11.245	178	4692549	50.038	ug/ml		100
90)	Anthracene	11.292	178	4831002	51.813	ug/ml		100
91)	Carbazole	11.463	167	4432036	51.879	ug/ml		100
92)	Di-n-butylphthalate	11.845	149	6037609	60.171	ug/ml	#	98
93)	Fluoranthene	12.404	202	5608475	48.916	ug/ml	#	92
94)	Benzidine	12.557	184	3596429	57.780	ug/ml	#	94
95)	Pyrene	12.621	202	5910145	48.897	ug/ml		99
97)	Butyl benzyl phthalate	13.333	149	2771604	60.014	ug/ml		87
105)	Benzo(a)anthracene	13.874	228	6081522	45.640	ug/ml		100
106)	3,3'-Dichlorobenzidine	13.868	252	2226835	50.512	ug/ml	#	97
107)	Chrysene	13.915	228	5551583	43.097	ug/ml		100
108)	Bis(2-ethylhexyl)phtha...	13.974	149	4291464	58.259	ug/ml	#	93
109)	Di-n-octylphthalate	14.662	149	7663610	62.856	ug/ml	#	72
110)	Benzo(b)fluoranthene	14.992	252	6049795	46.920	ug/ml	#	94
111)	Benzo(k)fluoranthene	15.021	252	5651954M3	46.232	ug/ml		
112)	Benzo(a)pyrene	15.310	252	5512474M2	49.251	ug/ml		
114)	Indeno(1,2,3-cd)pyrene	16.380	276	5536258M6	53.154	ug/mL		
115)	Dibenzo(a,h)anthracene	16.404	278	5243490	52.291	ug/ml	#	90
116)	Benzo(ghi)perylene	16.651	276	4360525	46.984	ug/ml	#	87

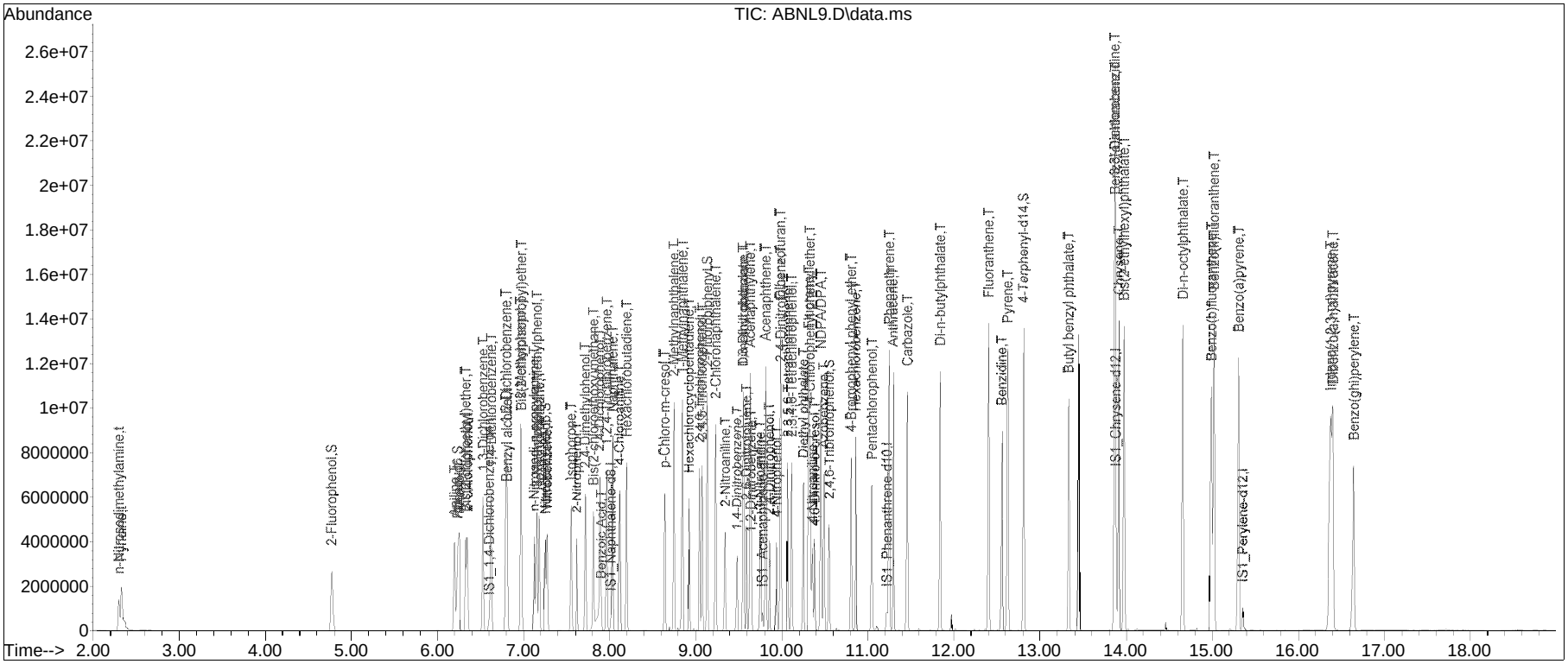
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL9.D
Acq On : 9 Oct 2024 8:07 pm
Operator : SV106:HNY
Sample : IL2,32,,ABNL50 Lot# 11004
Misc : WG1984388
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 11 11:41:27 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

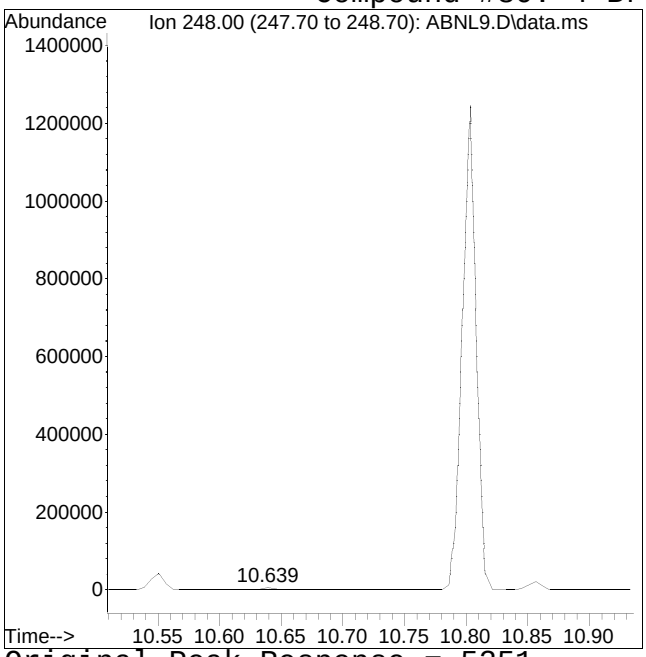
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•

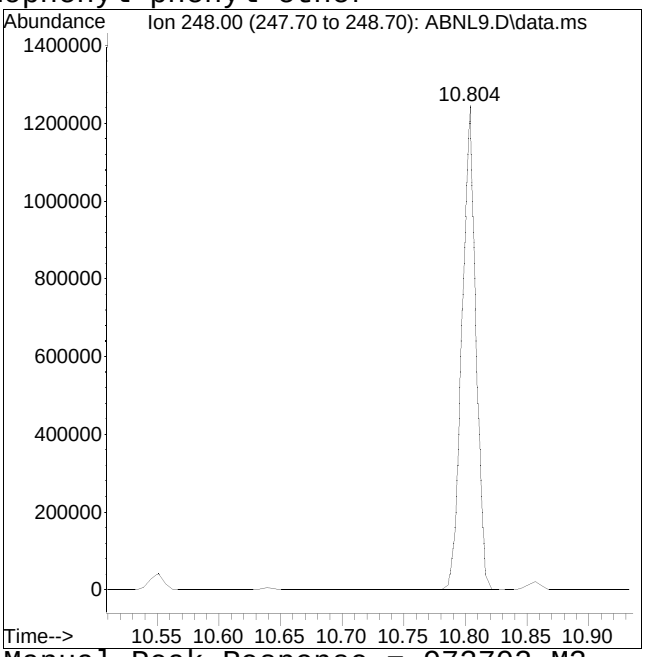


Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL9.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 8:07 pm Instrument : SV 106
Sample : IL2,32,,ABNL50 Lot# 11004 Quant Date : 10/11/2024 11:14 am

Compound #80: 4-Bromophenyl phenyl ether





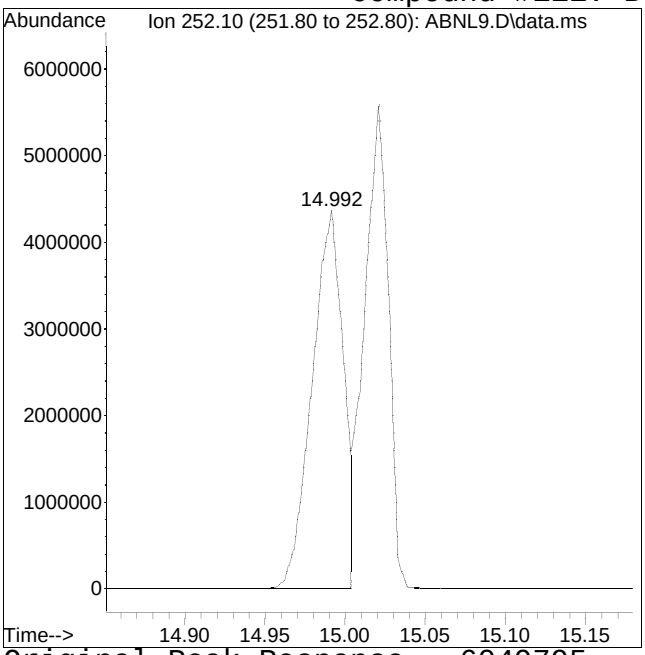
Original Peak Response = 5251 Manual Peak Response = 973702 M3

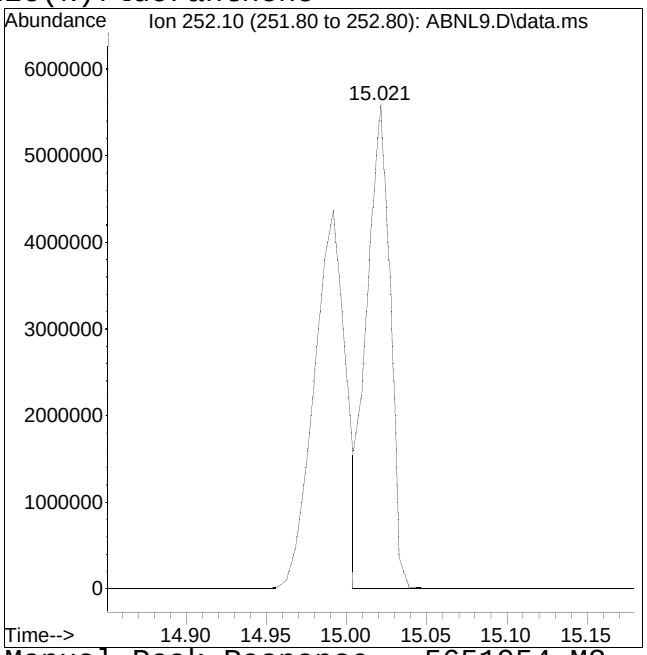
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL9.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 8:07 pm Instrument : SV 106
Sample : IL2,32,,ABNL50 Lot# 11004 Quant Date : 10/11/2024 11:14 am

Compound #111: Benzo(k)fluoranthene



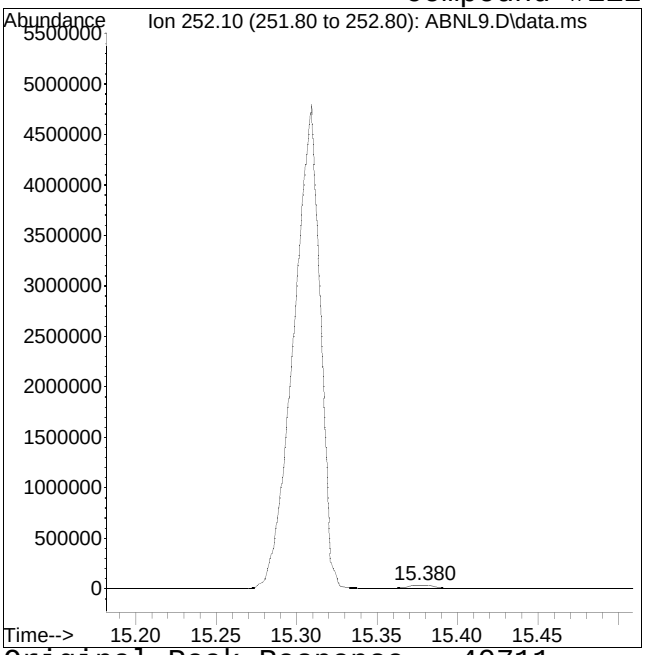


Original Peak Response = 6049795 Manual Peak Response = 5651954 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

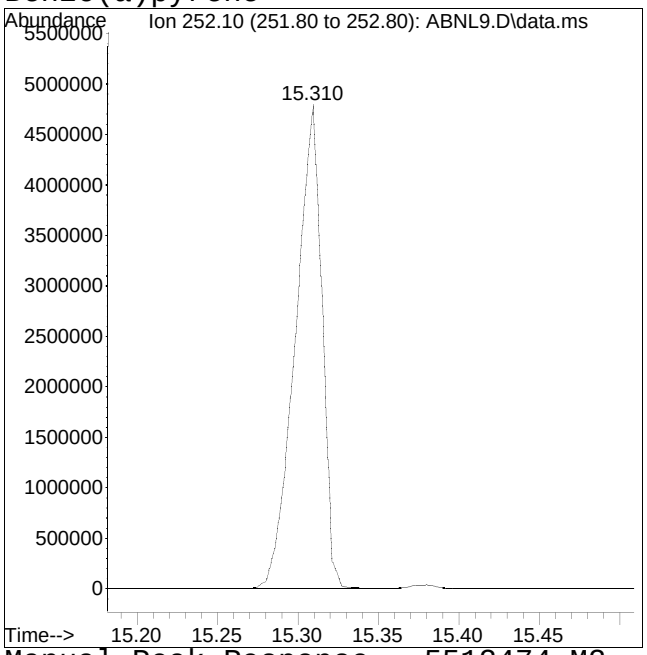
Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL9.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 8:07 pm Instrument : SV 106
Sample : IL2,32,,ABNL50 Lot# 11004 Quant Date : 10/11/2024 11:14 am

Compound #112: Benzo(a)pyrene



Original Peak Response = 40711



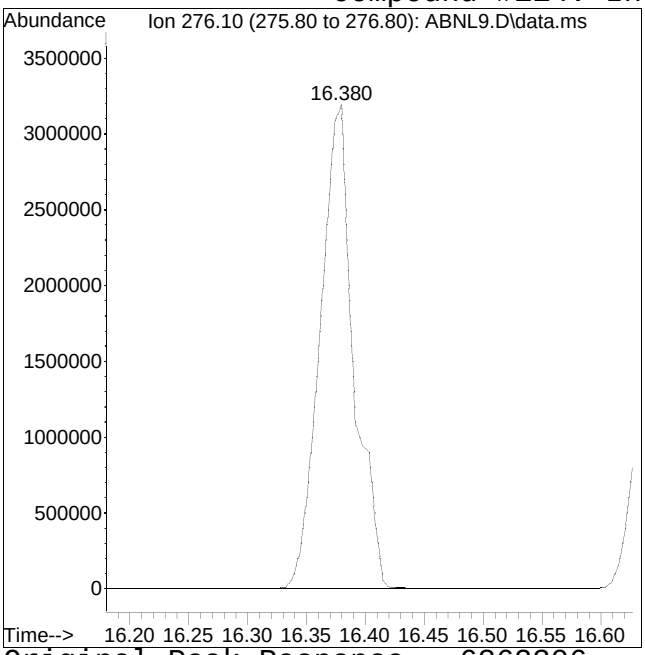
Manual Peak Response = 5512474 M2

M2 = Peak not found by automatic integration algorithm.

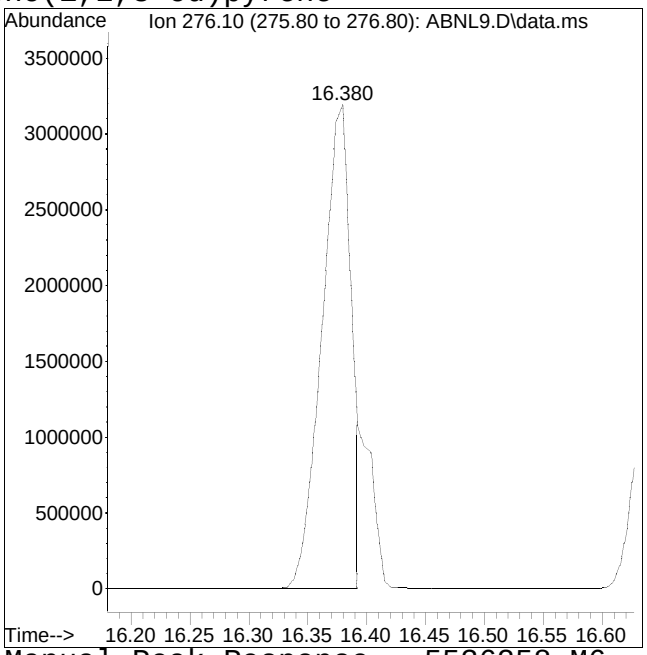
Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL9.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 8:07 pm Instrument : SV 106
Sample : IL2,32,,ABNL50 Lot# 11004 Quant Date : 10/11/2024 11:14 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 6362306



Manual Peak Response = 5536258 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL8.D
Acq On : 9 Oct 2024 8:30 pm
Operator : SV106:HNY
Sample : IL3,32,,ABNL25 Lot# 11005
Misc : WG1984388
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 11 11:39:19 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.598	152	69692	4.000	ug/ml	# 0.00
Standard Area 1 = 69296			Recovery = 100.57%			
35) IS1_Naphthalene-d8	8.010	136	258719	4.000	ug/ml	# 0.00
Standard Area 1 = 264583			Recovery = 97.78%			
63) IS1_Acenaphthene-d10	9.775	164	154939	4.000	ug/ml	0.00
Standard Area 1 = 166975			Recovery = 92.79%			
88) IS1_Phenanthrene-d10	11.216	188	294376	4.000	ug/ml	0.00
Standard Area 1 = 326455			Recovery = 90.17%			
104) IS1_Chrysene-d12	13.874	240	314886	4.000	ug/ml	0.00
Standard Area 1 = 353807			Recovery = 89.00%			
113) IS1_Perylene-d12	15.345	264	342705	4.000	ug/ml	0.00
Standard Area 1 = 379737			Recovery = 90.25%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.769	112	549260	27.268	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1363.40%#			
7) Phenol-d6	6.228	99	649095	23.539	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1176.95%#			
19) Nitrobenzene-d5	7.245	82	595158	21.104	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2110.40%#			
46) 2-Fluorobiphenyl	9.128	172	1461913	22.004	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2200.40%#			
79) 2,4,6-Tribromophenol	10.545	330	227738	23.583	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1179.15%#			
96) 4-Terphenyl-d14	12.804	244	1972266	24.917	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2491.70%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.293	74	330743	22.301	ug/ml#	67
3) Pyridine	2.328	79	525087	21.645	ug/ml#	65
5) Aniline	6.198	93	803286	22.506	ug/ml	96
6) 2-Chlorophenol	6.346	128	601267	26.797	ug/ml	91
8) Phenol	6.246	94	680744	23.798	ug/ml	95
9) Bis(2-chloroethyl)ether	6.322	93	541237	23.040	ug/ml#	85
10) 1,3-Dichlorobenzene	6.528	146	718099	26.651	ug/ml	97
11) 1,4-Dichlorobenzene	6.622	146	724265	26.563	ug/ml	98
12) 1,2-Dichlorobenzene	6.798	146	688287	25.951	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL8.D
Acq On : 9 Oct 2024 8:30 pm
Operator : SV106:HNY
Sample : IL3,32,,ABNL25 Lot# 11005
Misc : WG1984388
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 11 11:39:19 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.804	79	468603	21.220	ug/ml	98
14) Bis(2-chloroisopropyl)...	6.975	45	842726	22.329	ug/ml#	56
15) 2-Methylphenol	6.969	108	500029	24.269	ug/ml	98
16) Hexachloroethane	7.181	117	266748	24.587	ug/ml#	61
17) n-Nitrosodi-n-propylamine	7.122	70	409377	22.231	ug/ml	96
18) 3-Methylphenol/4-Methy...	7.151	108	541583	24.305	ug/ml	98
20) Nitrobenzene	7.269	77	600184	20.964	ug/ml	96
21) Isophorone	7.545	82	1067020	22.188	ug/ml	99
22) 2-Nitrophenol	7.622	139	336029	27.880	ug/ml#	87
23) 2,4-Dimethylphenol	7.716	107	479645	21.153	ug/ml	96
24) Bis(2-chloroethoxy)met...	7.810	93	685342	22.126	ug/ml	99
25) 2,4-Dichlorophenol	7.887	162	555272	25.848	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.963	180	611172	23.231	ug/ml	96
36) Naphthalene	8.034	128	1787204	24.097	ug/ml	100
37) Benzoic Acid	7.857	105	446018	22.358	ug/ml	94
38) 4-Chloroaniline	8.110	65	209528	19.161	ug/ml	74
39) Hexachlorobutadiene	8.198	225	380449	19.436	ug/ml	100
40) p-Chloro-m-cresol	8.634	107	507159	22.885	ug/ml	95
41) 2-Methylnaphthalene	8.745	142	1213431	24.549	ug/ml	97
42) 1-Methylnaphthalene	8.845	115	388324	20.688	ug/ml	97
43) Hexachlorocyclopentadiene	8.922	237	433985	19.986	ug/ml	100
44) 2,4,6-Trichlorophenol	9.039	196	454935	23.403	ug/ml	99
45) 2,4,5-Trichlorophenol	9.069	196	473916	22.767	ug/ml	100
47) 2-Chloronaphthalene	9.228	162	1234483	23.486	ug/ml	96
48) 2-Nitroaniline	9.339	138	389403	24.591	ug/ml#	82
49) 1,4-Dinitrobenzene	9.475	168	200966M3	24.114	ug/ml	
50) 1,3-Dinitrobenzene	9.551	168	215931	22.737	ug/ml#	1
51) Dimethyl phthalate	9.545	163	1415733	22.131	ug/ml#	98
52) Acenaphthylene	9.628	152	1883367	23.407	ug/ml	99
53) 2,6-Dinitrotoluene	9.586	165	317392	23.044	ug/ml#	72
54) 1,2-Dinitrobenzene	9.634	168	130396	22.203	ug/ml#	1
64) 3-Nitroaniline	9.745	138	335120	27.090	ug/ml#	90
65) Acenaphthene	9.804	154	1111714	24.900	ug/ml	92
66) 2,4-Dinitrophenol	9.845	184	233112	28.217	ug/ml#	83
67) Dibenzofuran	9.975	168	1754838	23.400	ug/ml	96
68) 2,4-Dinitrotoluene	9.981	165	438832	23.860	ug/ml	86
69) 4-Nitrophenol	9.928	65	258141	20.606	ug/ml#	81
70) 2,3,5,6-Tetrachlorophenol	10.063	232	418301	23.883	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL8.D
Acq On : 9 Oct 2024 8:30 pm
Operator : SV106:HNY
Sample : IL3,32,,ABNL25 Lot# 11005
Misc : WG1984388
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 11 11:39:19 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2,3,4,6-Tetrachlorophenol	10.104	232	392681	23.308	ug/ml	97
72) Diethyl phthalate	10.239	149	1460423	24.651	ug/ml	99
73) Fluorene	10.310	166	1380410	23.406	ug/ml	94
74) 4-Chlorophenyl phenyl ...	10.328	204	693168	22.331	ug/ml	89
75) 4-Nitroaniline	10.339	138	344590	26.755	ug/ml#	80
76) 4,6-Dinitro-o-cresol	10.375	198	290744	28.202	ug/ml#	58
77) NDPA/DPA	10.445	169	1205904	24.658	ug/ml	99
78) Azobenzene	10.481	77	1187171	21.197	ug/ml#	91
80) 4-Bromophenyl phenyl e...	10.798	248	431456M3	22.278	ug/ml	
81) Hexachlorobenzene	10.851	284	480648	21.819	ug/ml#	83
82) Pentachlorophenol	11.045	266	340151	24.313	ug/ml	99
89) Phenanthrene	11.239	178	2104839	25.602	ug/ml	100
90) Anthracene	11.286	178	2154475	26.357	ug/ml	100
91) Carbazole	11.457	167	2004699	26.767	ug/ml	100
92) Di-n-butylphthalate	11.839	149	2635226	29.957	ug/ml#	98
93) Fluoranthene	12.398	202	2548112	25.350	ug/ml#	92
94) Benzidine	12.551	184	1602442	29.366	ug/ml#	95
95) Pyrene	12.616	202	2656050	25.066	ug/ml	100
97) Butyl benzyl phthalate	13.333	149	1187650	29.334	ug/ml	87
105) Benzo(a)anthracene	13.863	228	2736082	23.514	ug/ml	99
106) 3,3'-Dichlorobenzidine	13.863	252	1015007	26.366	ug/ml#	97
107) Chrysene	13.904	228	2548395	22.655	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	13.969	149	1820683	28.305	ug/ml#	93
109) Di-n-octylphthalate	14.657	149	3257778	30.599	ug/ml#	72
110) Benzo(b)fluoranthene	14.980	252	2684585	23.843	ug/ml#	94
111) Benzo(k)fluoranthene	15.010	252	2622344	24.564	ug/ml#	94
112) Benzo(a)pyrene	15.298	252	2491135	25.488	ug/ml#	94
114) Indeno(1,2,3-cd)pyrene	16.363	276	2826049M6	30.486	ug/mL	
115) Dibenzo(a,h)anthracene	16.386	278	2574655	28.849	ug/ml#	90
116) Benzo(ghi)perylene	16.633	276	2402943	29.091	ug/ml#	87

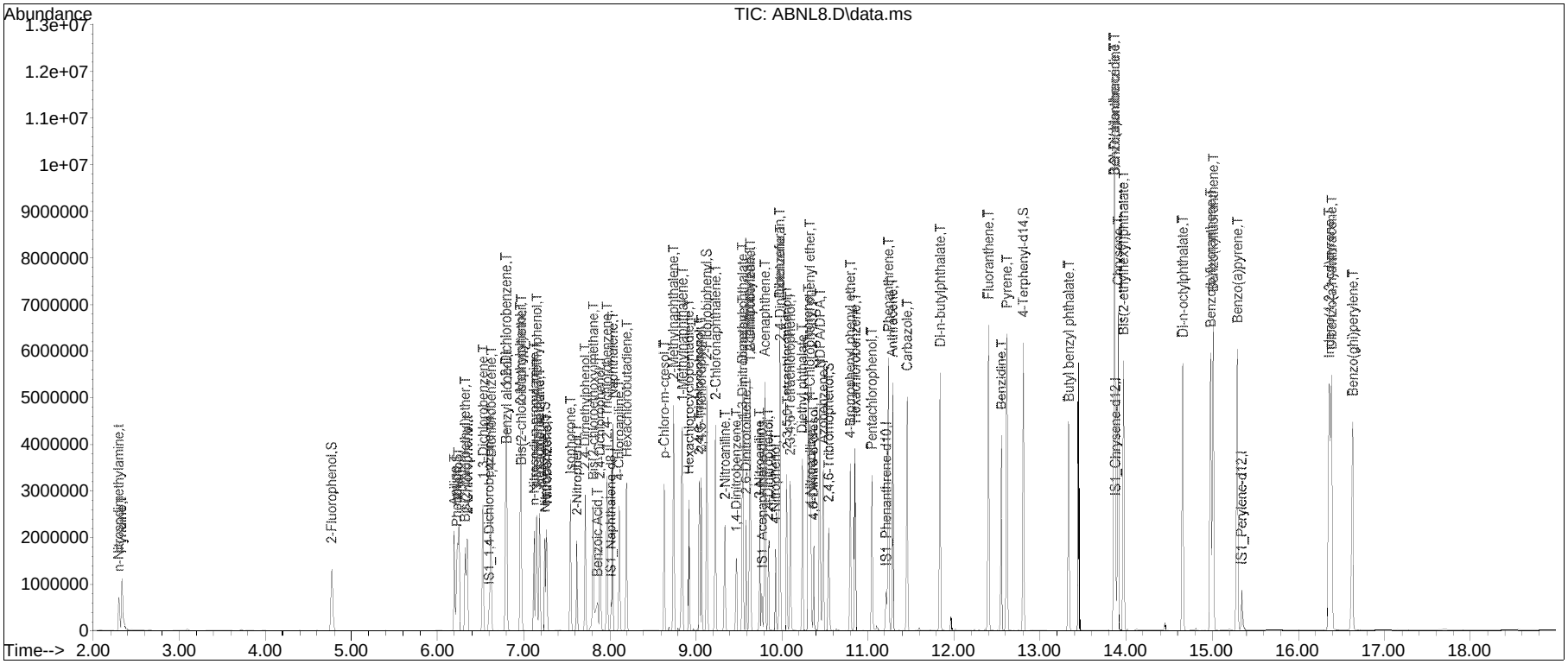
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL8.D
Acq On : 9 Oct 2024 8:30 pm
Operator : SV106:HNY
Sample : IL3,32,,ABNL25 Lot# 11005
Misc : WG1984388
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 11 11:39:19 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

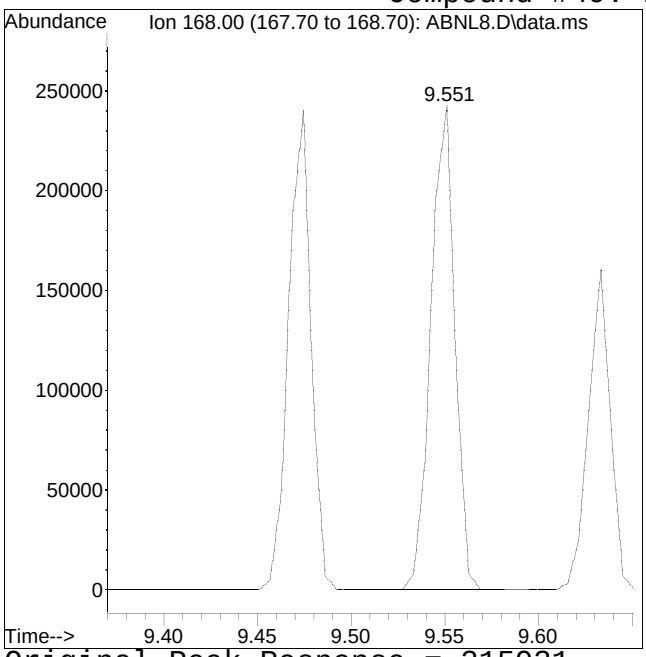
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•

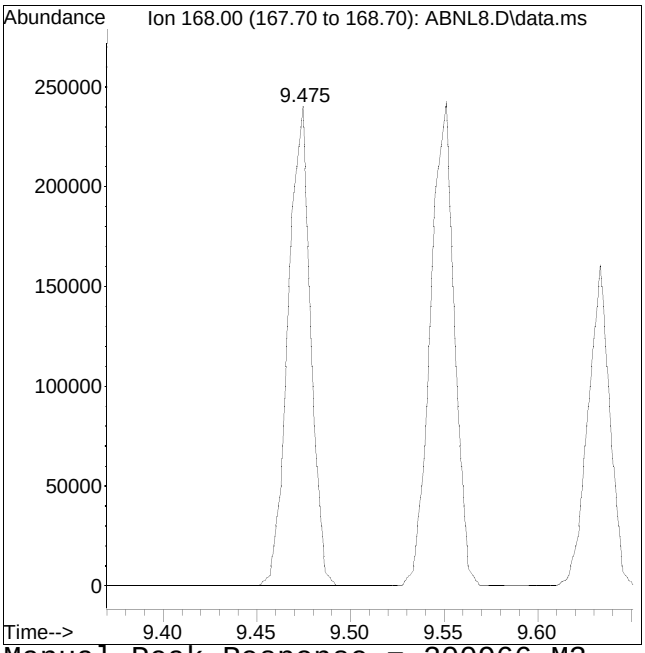


Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL8.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 8:30 pm Instrument : SV 106
Sample : IL3,32,,ABNL25 Lot# 11005 Quant Date : 10/11/2024 11:13 am

Compound #49: 1,4-Dinitrobenzene



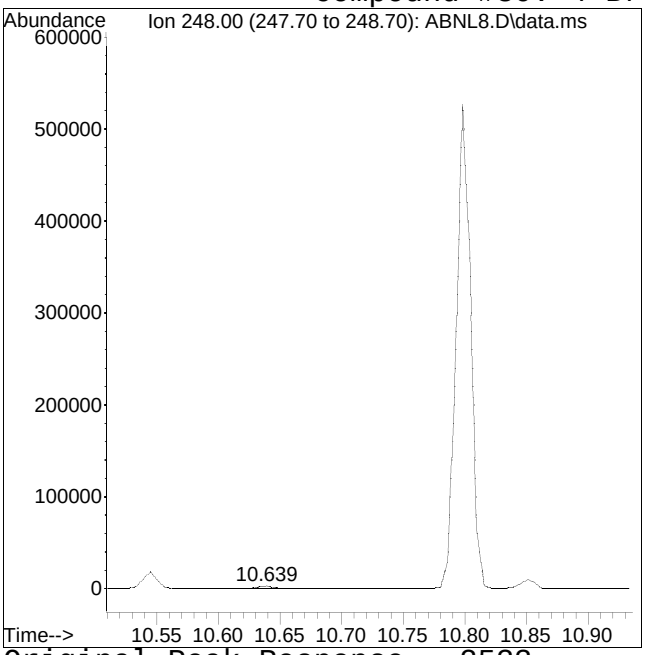


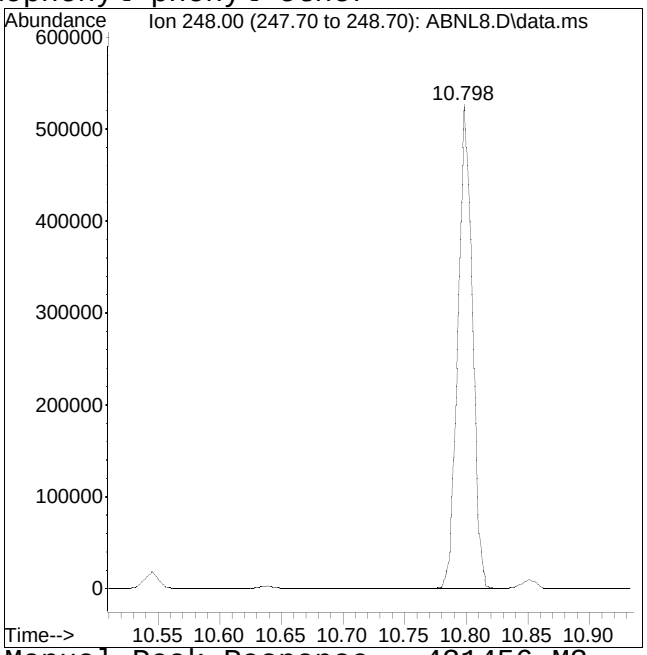
Original Peak Response = 215931 Manual Peak Response = 200966 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL8.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 8:30 pm Instrument : SV 106
Sample : IL3,32,,ABNL25 Lot# 11005 Quant Date : 10/11/2024 11:13 am

Compound #80: 4-Bromophenyl phenyl ether





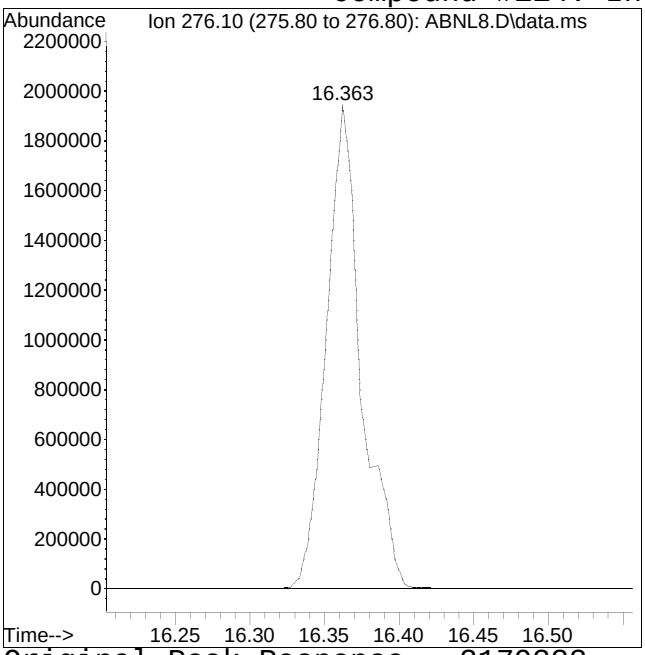
Original Peak Response = 2533 Manual Peak Response = 431456 M3

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

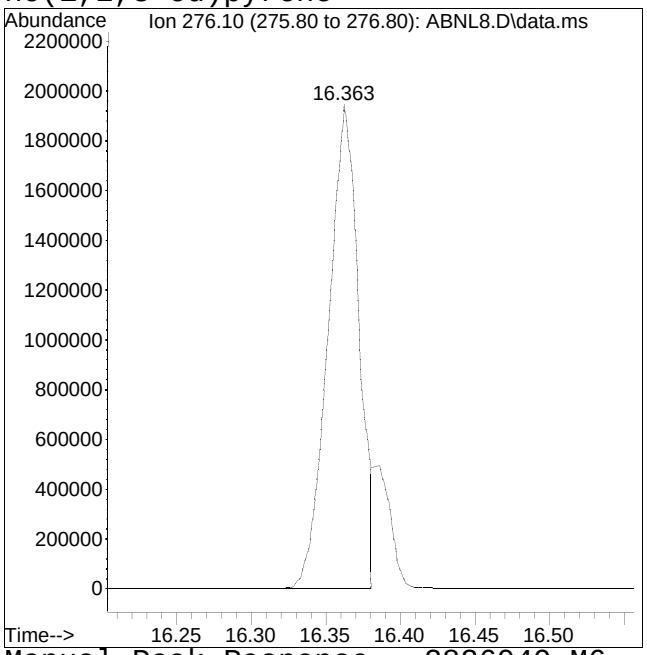
Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL8.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 8:30 pm Instrument : SV 106
Sample : IL3,32,,ABNL25 Lot# 11005 Quant Date : 10/11/2024 11:13 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 3179333



Manual Peak Response = 2826049 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL7.D
Acq On : 9 Oct 2024 8:54 pm
Operator : SV106:HNY
Sample : IL4,32,,ABNL10 Lot# 11006
Misc : WG1984388
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 11 11:38:05 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.598	152	74123	4.000	ug/ml	# 0.00
Standard Area 1 = 69296			Recovery = 106.97%			
35) IS1_Naphthalene-d8	8.010	136	279694	4.000	ug/ml	0.00
Standard Area 1 = 264583			Recovery = 105.71%			
63) IS1_Acenaphthene-d10	9.775	164	172802	4.000	ug/ml	0.00
Standard Area 1 = 166975			Recovery = 103.49%			
88) IS1_Phenanthrene-d10	11.216	188	346318	4.000	ug/ml	0.00
Standard Area 1 = 326455			Recovery = 106.08%			
104) IS1_Chrysene-d12	13.868	240	380782	4.000	ug/ml	0.00
Standard Area 1 = 353807			Recovery = 107.62%			
113) IS1_Perylene-d12	15.345	264	393856	4.000	ug/ml	0.00
Standard Area 1 = 379737			Recovery = 103.72%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.775	112	218401	10.194	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 509.70%#			
7) Phenol-d6	6.228	99	266712	9.094	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 454.70%#			
19) Nitrobenzene-d5	7.245	82	246307	8.212	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 821.20%#			
46) 2-Fluorobiphenyl	9.128	172	626231	8.719	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 871.90%#			
79) 2,4,6-Tribromophenol	10.545	330	100484	9.330	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 466.50%#			
96) 4-Terphenyl-d14	12.804	244	911314	9.786	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 978.60%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.305	74	134103	8.502	ug/ml#	68
3) Pyridine	2.340	79	216081	8.375	ug/ml#	66
5) Aniline	6.198	93	326188	8.593	ug/ml	97
6) 2-Chlorophenol	6.340	128	246173	10.316	ug/ml	92
8) Phenol	6.245	94	279454	9.185	ug/ml	96
9) Bis(2-chloroethyl)ether	6.322	93	225102	9.009	ug/ml	86
10) 1,3-Dichlorobenzene	6.528	146	294086	10.262	ug/ml	97
11) 1,4-Dichlorobenzene	6.622	146	293845	10.133	ug/ml	98
12) 1,2-Dichlorobenzene	6.798	146	283461	10.049	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL7.D
Acq On : 9 Oct 2024 8:54 pm
Operator : SV106:HNY
Sample : IL4,32,,ABNL10 Lot# 11006
Misc : WG1984388
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 11 11:38:05 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.798	79	193962	8.258	ug/ml	98
14) Bis(2-chloroisopropyl)...	6.975	45	349801	8.714	ug/ml#	57
15) 2-Methylphenol	6.963	108	203931	9.306	ug/ml	97
16) Hexachloroethane	7.181	117	108287	9.384	ug/ml#	62
17) n-Nitrosodi-n-propylamine	7.122	70	169671	8.663	ug/ml	97
18) 3-Methylphenol/4-Methy...	7.151	108	222673	9.395	ug/ml	96
20) Nitrobenzene	7.269	77	252563	8.294	ug/ml	98
21) Isophorone	7.545	82	446178	8.723	ug/ml	99
22) 2-Nitrophenol	7.622	139	133535	10.417	ug/ml	90
23) 2,4-Dimethylphenol	7.716	107	200205	8.302	ug/ml	96
24) Bis(2-chloroethoxy)met...	7.810	93	292285	8.872	ug/ml	99
25) 2,4-Dichlorophenol	7.881	162	228319	9.993	ug/ml	94
26) 1,2,4-Trichlorobenzene	7.963	180	255921	9.146	ug/ml	97
36) Naphthalene	8.034	128	745981	9.304	ug/ml	99
37) Benzoic Acid	7.822	105	169956	8.433	ug/ml	95
38) 4-Chloroaniline	8.110	65	87849	7.431	ug/ml	73
39) Hexachlorobutadiene	8.198	225	158039	7.468	ug/ml	100
40) p-Chloro-m-cresol	8.633	107	212079	8.852	ug/ml	93
41) 2-Methylnaphthalene	8.745	142	507496	9.497	ug/ml	97
42) 1-Methylnaphthalene	8.839	115	161285	7.948	ug/ml	93
43) Hexachlorocyclopentadiene	8.922	237	181287	7.723	ug/ml	99
44) 2,4,6-Trichlorophenol	9.039	196	194353	9.248	ug/ml	99
45) 2,4,5-Trichlorophenol	9.069	196	200910	8.928	ug/ml	98
47) 2-Chloronaphthalene	9.228	162	533279	9.385	ug/ml	96
48) 2-Nitroaniline	9.339	138	168307	9.831	ug/ml#	82
49) 1,4-Dinitrobenzene	9.469	168	85945	9.539	ug/ml#	72
50) 1,3-Dinitrobenzene	9.545	168	95905	9.341	ug/ml#	1
51) Dimethyl phthalate	9.539	163	633492	9.160	ug/ml#	98
52) Acenaphthylene	9.628	152	813240	9.349	ug/ml	100
53) 2,6-Dinitrotoluene	9.586	165	139583	9.374	ug/ml#	73
54) 1,2-Dinitrobenzene	9.628	168	59620	9.390	ug/ml#	1
64) 3-Nitroaniline	9.739	138	145058	10.514	ug/ml#	92
65) Acenaphthene	9.804	154	475284	9.545	ug/ml	91
66) 2,4-Dinitrophenol	9.845	184	96630	10.487	ug/ml#	83
67) Dibenzofuran	9.975	168	758470	9.069	ug/ml	95
68) 2,4-Dinitrotoluene	9.975	165	189184	9.223	ug/ml	87
69) 4-Nitrophenol	9.928	65	111120	7.953	ug/ml#	79
70) 2,3,5,6-Tetrachlorophenol	10.063	232	180474	9.239	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL7.D
Acq On : 9 Oct 2024 8:54 pm
Operator : SV106:HNY
Sample : IL4,32,,ABNL10 Lot# 11006
Misc : WG1984388
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 11 11:38:05 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	10.104	232	172491	9.180	ug/ml		97
72)	Diethyl phthalate	10.239	149	638510	9.663	ug/ml		99
73)	Fluorene	10.310	166	611701	9.300	ug/ml		95
74)	4-Chlorophenyl phenyl ...	10.328	204	306584	8.856	ug/ml		89
75)	4-Nitroaniline	10.333	138	151370	10.538	ug/ml	#	79
76)	4,6-Dinitro-o-cresol	10.369	198	123077	10.704	ug/ml	#	58
77)	NDPA/DPA	10.439	169	538785	9.878	ug/ml		99
78)	Azobenzene	10.475	77	521328	8.346	ug/ml	#	90
80)	4-Bromophenyl phenyl e...	10.798	248	194301M3	8.996	ug/ml		
81)	Hexachlorobenzene	10.851	284	212215	8.638	ug/ml	#	82
82)	Pentachlorophenol	11.045	266	147530	9.455	ug/ml		99
89)	Phenanthrene	11.239	178	949421	9.816	ug/ml		99
90)	Anthracene	11.286	178	962312	10.007	ug/ml		100
91)	Carbazole	11.451	167	895995	10.169	ug/ml		99
92)	Di-n-butylphthalate	11.839	149	1193514	11.533	ug/ml		99
93)	Fluoranthene	12.398	202	1144667	9.680	ug/ml	#	92
94)	Benzidine	12.545	184	736147	11.467	ug/ml	#	95
95)	Pyrene	12.616	202	1216186	9.756	ug/ml		99
97)	Butyl benzyl phthalate	13.327	149	534359	11.219	ug/ml		87
105)	Benzo(a)anthracene	13.863	228	1232284	8.758	ug/ml		100
106)	3,3'-Dichlorobenzidine	13.857	252	449887	9.664	ug/ml	#	97
107)	Chrysene	13.898	228	1150295	8.457	ug/ml		99
108)	Bis(2-ethylhexyl)phtha...	13.968	149	854452	10.985	ug/ml	#	93
109)	Di-n-octylphthalate	14.651	149	1479451	11.491	ug/ml	#	72
110)	Benzo(b)fluoranthene	14.974	252	1282730	9.421	ug/ml	#	91
111)	Benzo(k)fluoranthene	15.004	252	1069880	8.288	ug/ml	#	92
112)	Benzo(a)pyrene	15.292	252	1088576M2	9.210	ug/ml		
114)	Indeno(1,2,3-cd)pyrene	16.357	276	1235655M6	11.598	ug/mL		
115)	Dibenzo(a,h)anthracene	16.380	278	1135928	11.075	ug/ml	#	90
116)	Benzo(ghi)perylene	16.621	276	1063003	11.198	ug/ml	#	87

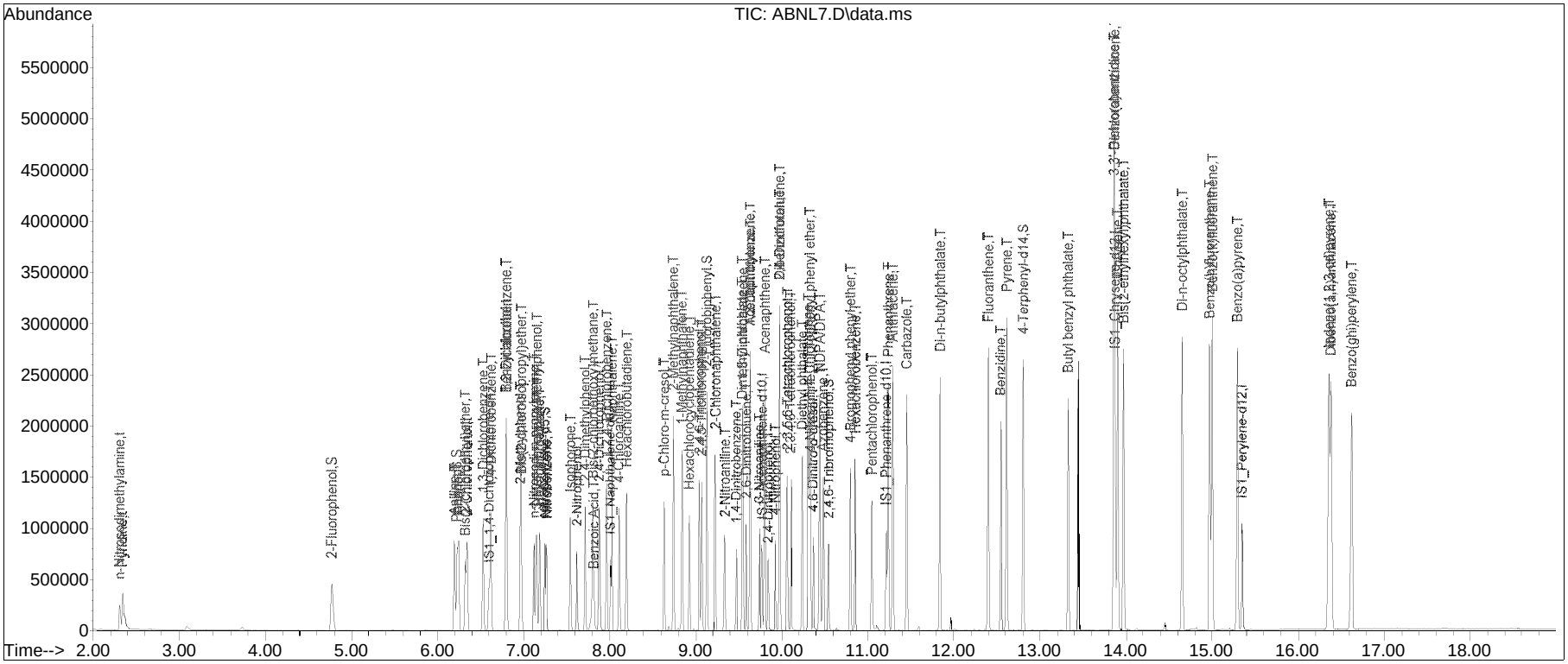
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL7.D
Acq On : 9 Oct 2024 8:54 pm
Operator : SV106:HNY
Sample : IL4,32,,ABNL10 Lot# 11006
Misc : WG1984388
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 11 11:38:05 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

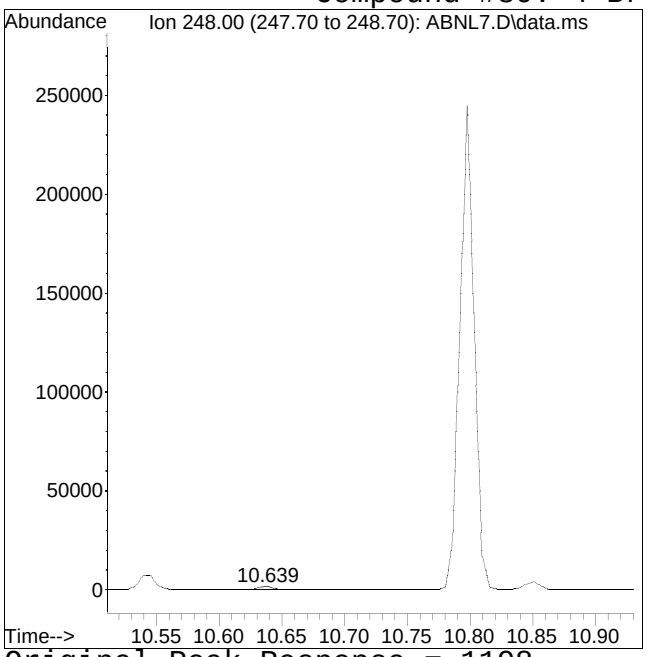
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•

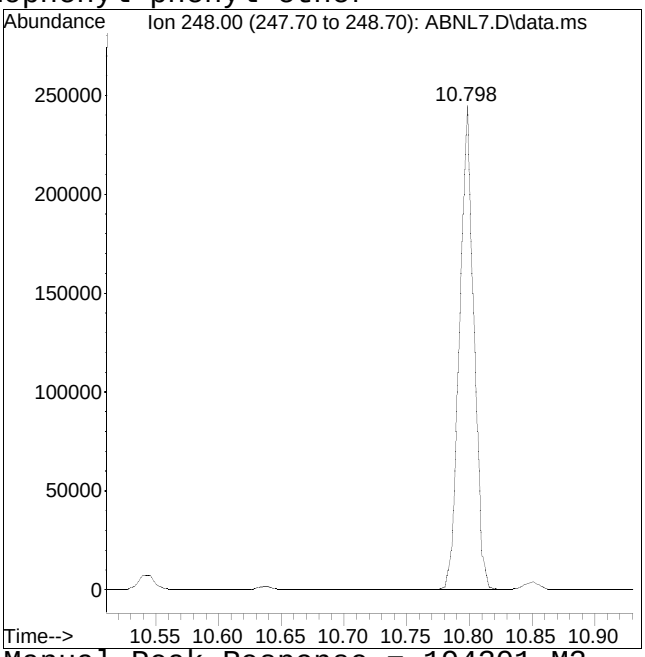


Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL7.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 8:54 pm Instrument : SV 106
Sample : IL4,32,,ABNL10 Lot# 11006 Quant Date : 10/11/2024 11:13 am

Compound #80: 4-Bromophenyl phenyl ether





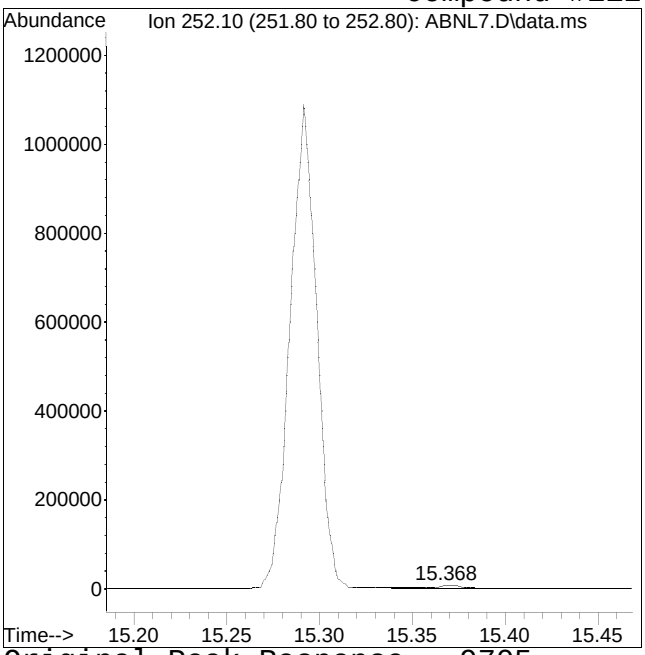
Original Peak Response = 1198 Manual Peak Response = 194301 M3

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

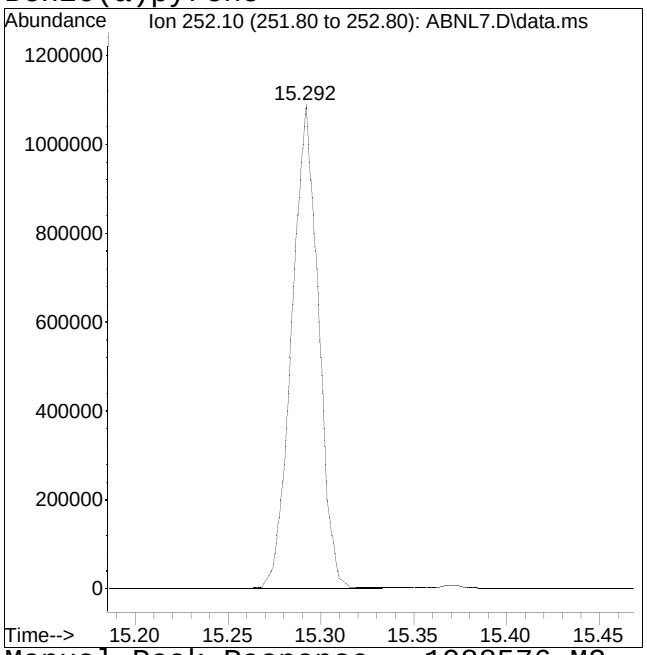
Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL7.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 8:54 pm Instrument : SV 106
Sample : IL4,32,,ABNL10 Lot# 11006 Quant Date : 10/11/2024 11:13 am

Compound #112: Benzo(a)pyrene



Original Peak Response = 9705



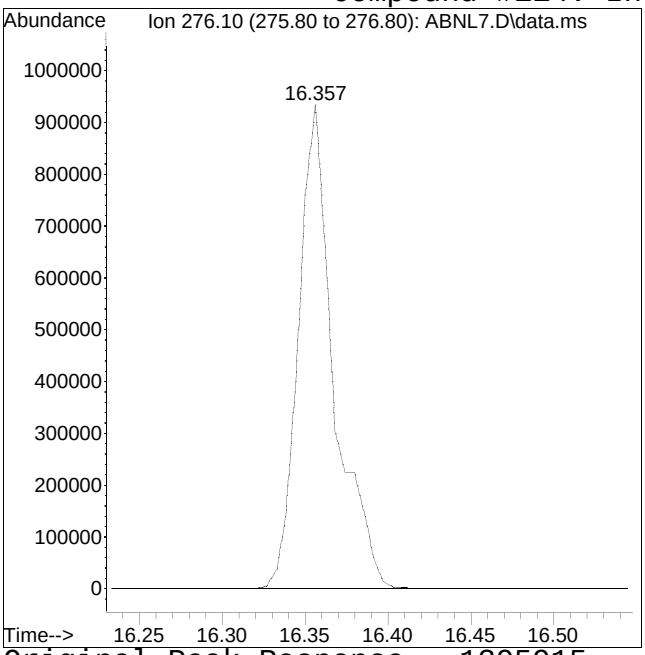
Manual Peak Response = 1088576 M2

M2 = Peak not found by automatic integration algorithm.

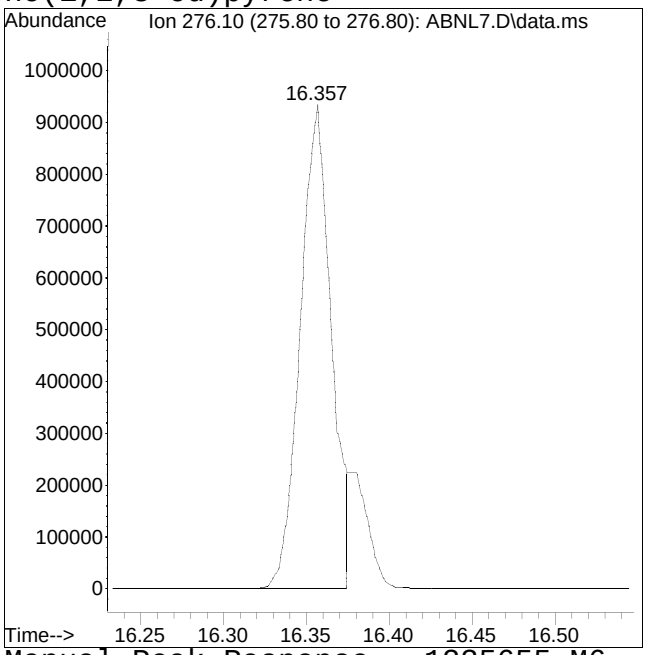
Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL7.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 8:54 pm Instrument : SV 106
Sample : IL4,32,,ABNL10 Lot# 11006 Quant Date : 10/11/2024 11:13 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 1395915



Manual Peak Response = 1235655 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL6.D
Acq On : 9 Oct 2024 9:18 pm
Operator : SV106:HNY
Sample : IL5,32,,ABNL5 Lot# 11007
Misc : WG1984388
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 11 11:36:50 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.598	152	69296	4.000	ug/ml	0.00
Standard Area 1 = 69296			Recovery = 100.00%			
35) IS1_Naphthalene-d8	8.010	136	264583	4.000	ug/ml	# 0.00
Standard Area 1 = 264583			Recovery = 100.00%			
63) IS1_Acenaphthene-d10	9.769	164	166975	4.000	ug/ml	0.00
Standard Area 1 = 166975			Recovery = 100.00%			
88) IS1_Phenanthrene-d10	11.216	188	326455	4.000	ug/ml	0.00
Standard Area 1 = 326455			Recovery = 100.00%			
104) IS1_Chrysene-d12	13.868	240	353807	4.000	ug/ml	0.00
Standard Area 1 = 353807			Recovery = 100.00%			
113) IS1_Perylene-d12	15.345	264	379737	4.000	ug/ml	0.00
Standard Area 1 = 379737			Recovery = 100.00%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.775	112	106392	5.312	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 265.60%#			
7) Phenol-d6	6.228	99	127394	4.646	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 232.30%#			
19) Nitrobenzene-d5	7.245	82	118933	4.241	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 424.10%#			
46) 2-Fluorobiphenyl	9.127	172	303510	4.467	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 446.70%#			
79) 2,4,6-Tribromophenol	10.545	330	47874	4.600	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 230.00%#			
96) 4-Terphenyl-d14	12.804	244	432325	4.925	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 492.50%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.304	74	65510	4.442	ug/ml#	67
3) Pyridine	2.340	79	104822	4.346	ug/ml#	64
5) Aniline	6.198	93	157418	4.436	ug/ml	96
6) 2-Chlorophenol	6.339	128	120089	5.383	ug/ml	92
8) Phenol	6.245	94	135949	4.780	ug/ml	96
9) Bis(2-chloroethyl)ether	6.322	93	111711	4.783	ug/ml	87
10) 1,3-Dichlorobenzene	6.528	146	141682	5.288	ug/ml	97
11) 1,4-Dichlorobenzene	6.622	146	143120	5.279	ug/ml	97
12) 1,2-Dichlorobenzene	6.798	146	139337	5.284	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL6.D
Acq On : 9 Oct 2024 9:18 pm
Operator : SV106:HNY
Sample : IL5,32,,ABNL5 Lot# 11007
Misc : WG1984388
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 11 11:36:50 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.798	79	92144	4.196	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.975	45	170670	4.548	ug/ml#	58
15) 2-Methylphenol	6.963	108	98765	4.821	ug/ml	99
16) Hexachloroethane	7.181	117	52022	4.822	ug/ml#	61
17) n-Nitrosodi-n-propylamine	7.122	70	83145	4.541	ug/ml	95
18) 3-Methylphenol/4-Methy...	7.145	108	108248	4.886	ug/ml	98
20) Nitrobenzene	7.269	77	119875	4.211	ug/ml	97
21) Isophorone	7.539	82	214897	4.494	ug/ml	99
22) 2-Nitrophenol	7.622	139	65108	5.433	ug/ml#	87
23) 2,4-Dimethylphenol	7.716	107	97372	4.319	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.810	93	142321	4.621	ug/ml	98
25) 2,4-Dichlorophenol	7.880	162	112858	5.284	ug/ml#	94
26) 1,2,4-Trichlorobenzene	7.963	180	122241	4.673	ug/ml	96
36) Naphthalene	8.033	128	360278	4.750	ug/ml	100
37) Benzoic Acid	7.798	105	70508	3.951	ug/ml	92
38) 4-Chloroaniline	8.110	65	42744	3.822	ug/ml	75
39) Hexachlorobutadiene	8.198	225	79068	3.950	ug/ml	98
40) p-Chloro-m-cresol	8.633	107	100818	4.448	ug/ml	95
41) 2-Methylnaphthalene	8.745	142	247048	4.887	ug/ml	97
42) 1-Methylnaphthalene	8.839	115	78250	4.076	ug/ml	92
43) Hexachlorocyclopentadiene	8.922	237	86254	3.884	ug/ml	99
44) 2,4,6-Trichlorophenol	9.039	196	94100	4.733	ug/ml	97
45) 2,4,5-Trichlorophenol	9.069	196	95342	4.479	ug/ml	99
47) 2-Chloronaphthalene	9.222	162	254190	4.729	ug/ml	95
48) 2-Nitroaniline	9.333	138	77370	4.778	ug/ml#	83
49) 1,4-Dinitrobenzene	9.469	168	40269	4.725	ug/ml#	73
50) 1,3-Dinitrobenzene	9.545	168	44940	4.627	ug/ml#	1
51) Dimethyl phthalate	9.539	163	311840	4.767	ug/ml#	99
52) Acenaphthylene	9.627	152	389169	4.730	ug/ml	99
53) 2,6-Dinitrotoluene	9.580	165	67434	4.787	ug/ml#	72
54) 1,2-Dinitrobenzene	9.627	168	28290	4.710	ug/ml#	1
64) 3-Nitroaniline	9.739	138	69790	5.235	ug/ml#	92
65) Acenaphthene	9.804	154	230981	4.800	ug/ml	92
66) 2,4-Dinitrophenol	9.839	184	41274	4.636	ug/ml#	85
67) Dibenzofuran	9.974	168	368723	4.562	ug/ml	95
68) 2,4-Dinitrotoluene	9.974	165	91370	4.610	ug/ml	88
69) 4-Nitrophenol	9.922	65	53228	3.943	ug/ml#	84
70) 2,3,5,6-Tetrachlorophenol	10.063	232	84691	4.487	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL6.D
Acq On : 9 Oct 2024 9:18 pm
Operator : SV106:HNY
Sample : IL5,32,,ABNL5 Lot# 11007
Misc : WG1984388
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 11 11:36:50 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	10.104	232	83438	4.596	ug/ml	98
72)	Diethyl phthalate	10.233	149	309080	4.841	ug/ml	99
73)	Fluorene	10.310	166	297535	4.681	ug/ml	94
74)	4-Chlorophenyl phenyl ...	10.327	204	150570	4.501	ug/ml	89
75)	4-Nitroaniline	10.333	138	69338	4.996	ug/ml#	80
76)	4,6-Dinitro-o-cresol	10.369	198	54901	4.941	ug/ml#	60
77)	NDPA/DPA	10.439	169	262130	4.974	ug/ml	99
78)	Azobenzene	10.474	77	258347	4.280	ug/ml#	92
80)	4-Bromophenyl phenyl e...	10.798	248	94725	4.539	ug/ml#	83
81)	Hexachlorobenzene	10.851	284	103176	4.346	ug/ml#	82
82)	Pentachlorophenol	11.045	266	67884	4.502	ug/ml	98
89)	Phenanthrene	11.233	178	458834	5.032	ug/ml	100
90)	Anthracene	11.286	178	455499	5.025	ug/ml	99
91)	Carbazole	11.451	167	426360	5.133	ug/ml	99
92)	Di-n-butylphthalate	11.839	149	551825	5.657	ug/ml	99
93)	Fluoranthene	12.392	202	549789	4.932	ug/ml#	93
94)	Benzidine	12.545	184	343170	5.671	ug/ml#	95
95)	Pyrene	12.615	202	575183	4.895	ug/ml	100
97)	Butyl benzyl phthalate	13.327	149	244971	5.456	ug/ml	86
105)	Benzo(a)anthracene	13.857	228	581936	4.451	ug/ml	100
106)	3,3'-Dichlorobenzidine	13.857	252	207146	4.789	ug/ml#	96
107)	Chrysene	13.898	228	557157	4.408	ug/ml	99
108)	Bis(2-ethylhexyl)phtha...	13.968	149	396173	5.481	ug/ml#	93
109)	Di-n-octylphthalate	14.651	149	665863	5.566	ug/ml#	72
110)	Benzo(b)fluoranthene	14.974	252	568512	4.494	ug/ml#	95
111)	Benzo(k)fluoranthene	14.998	252	555881	4.634	ug/ml#	94
112)	Benzo(a)pyrene	15.292	252	512962	4.671	ug/ml#	94
114)	Indeno(1,2,3-cd)pyrene	16.351	276	574632M6	5.594	ug/mL	
115)	Dibenzo(a,h)anthracene	16.374	278	551268	5.574	ug/ml#	89
116)	Benzo(ghi)perylene	16.621	276	515451	5.632	ug/ml#	87

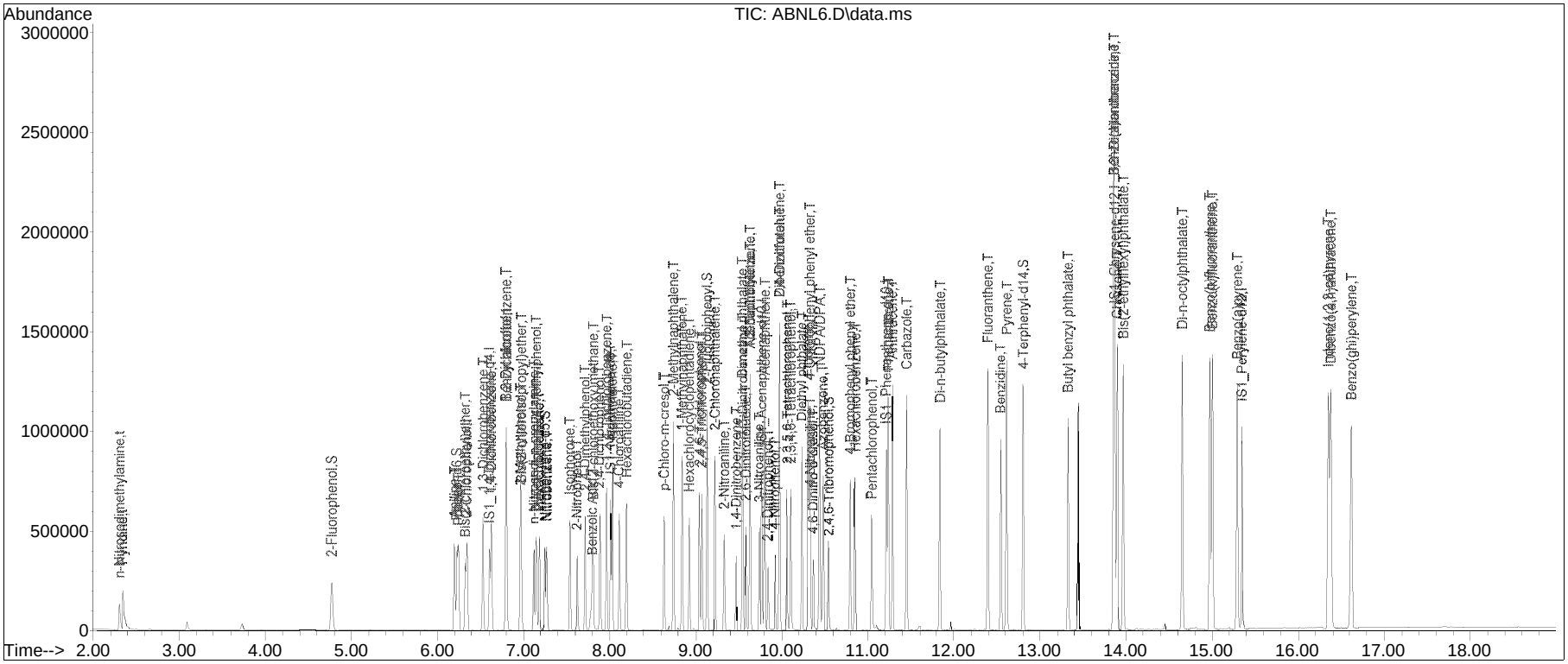
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL6.D
Acq On : 9 Oct 2024 9:18 pm
Operator : SV106:HNY
Sample : IL5,32,,ABNL5 Lot# 11007
Misc : WG1984388
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 11 11:36:50 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

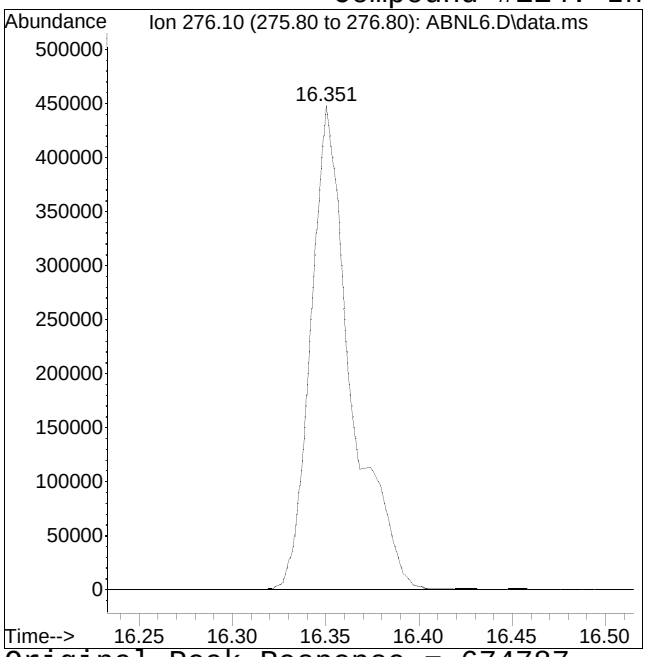
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•



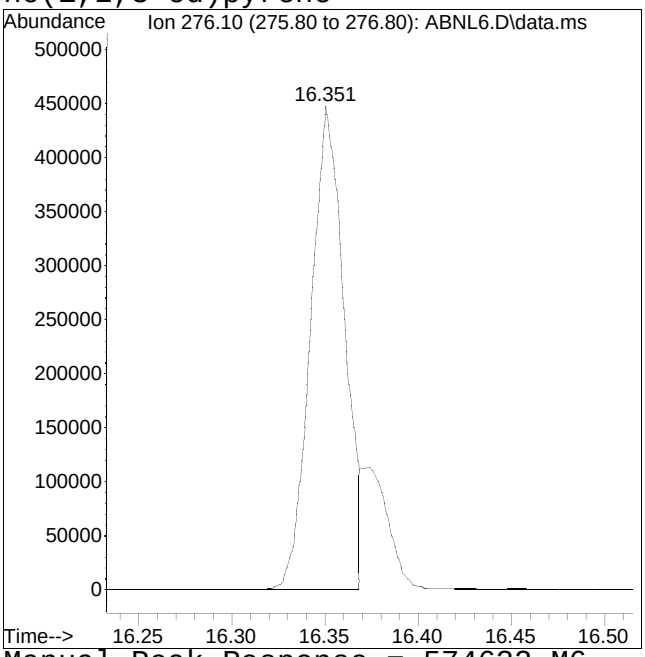
Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL6.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 9:18 pm Instrument : SV 106
Sample : IL5,32,,ABNL5 Lot# 11007 Quant Date : 10/11/2024 11:13 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 674787



Manual Peak Response = 574632 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL5.D
Acq On : 9 Oct 2024 9:41 pm
Operator : SV106:HNY
Sample : IL6,32,,ABNL2.5 Lot# 11008
Misc : WG1984388
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 11 11:34:43 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.598	152	70308	4.000	ug/ml	0.00
Standard Area 1 = 69296			Recovery = 101.46%			
35) IS1_Naphthalene-d8	8.010	136	261601	4.000	ug/ml	# 0.00
Standard Area 1 = 264583			Recovery = 98.87%			
63) IS1_Acenaphthene-d10	9.769	164	159180	4.000	ug/ml	0.00
Standard Area 1 = 166975			Recovery = 95.33%			
88) IS1_Phenanthrene-d10	11.216	188	298592	4.000	ug/ml	0.00
Standard Area 1 = 326455			Recovery = 91.46%			
104) IS1_Chrysene-d12	13.868	240	303536	4.000	ug/ml	0.00
Standard Area 1 = 353807			Recovery = 85.79%			
113) IS1_Perylene-d12	15.345	264	322402	4.000	ug/ml	0.00
Standard Area 1 = 379737			Recovery = 84.90%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.775	112	49767	2.449	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 122.45%#			
7) Phenol-d6	6.228	99	59577	2.142	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 107.10%			
19) Nitrobenzene-d5	7.245	82	53025	1.864	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 186.40%#			
46) 2-Fluorobiphenyl	9.127	172	132809	1.977	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 197.70%#			
79) 2,4,6-Tribromophenol	10.539	330	19676	1.983	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 99.15%			
96) 4-Terphenyl-d14	12.798	244	178058	2.218	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 221.80%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.304	74	31362	2.096	ug/ml#	66
3) Pyridine	2.346	79	51270	2.095	ug/ml#	65
5) Aniline	6.198	93	73427	2.039	ug/ml	95
6) 2-Chlorophenol	6.339	128	55505	2.452	ug/ml	91
8) Phenol	6.239	94	63157	2.189	ug/ml	96
9) Bis(2-chloroethyl)ether	6.322	93	50835	2.145	ug/ml	86
10) 1,3-Dichlorobenzene	6.528	146	68336	2.514	ug/ml	96
11) 1,4-Dichlorobenzene	6.622	146	67965	2.471	ug/ml	98
12) 1,2-Dichlorobenzene	6.798	146	65663	2.454	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL5.D
Acq On : 9 Oct 2024 9:41 pm
Operator : SV106:HNY
Sample : IL6,32,,ABNL2.5 Lot# 11008
Misc : WG1984388
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 11 11:34:43 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.798	79	40933	1.837	ug/ml	97
14) Bis(2-chloroisopropyl)...	6.975	45	79423	2.086	ug/ml#	58
15) 2-Methylphenol	6.963	108	45021	2.166	ug/ml	98
16) Hexachloroethane	7.181	117	24560	2.244	ug/ml#	57
17) n-Nitrosodi-n-propylamine	7.122	70	36102	1.943	ug/ml	95
18) 3-Methylphenol/4-Methy...	7.145	108	49194	2.188	ug/ml	99
20) Nitrobenzene	7.269	77	54168	1.875	ug/ml	98
21) Isophorone	7.545	82	93853	1.935	ug/ml	99
22) 2-Nitrophenol	7.622	139	28303	2.328	ug/ml	89
23) 2,4-Dimethylphenol	7.716	107	44311	1.937	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.810	93	63410	2.029	ug/ml	99
25) 2,4-Dichlorophenol	7.880	162	50081	2.311	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.963	180	57841	2.179	ug/ml	97
36) Naphthalene	8.033	128	165019	2.200	ug/ml	99
37) Benzoic Acid	7.786	105	25804	1.703	ug/ml	95
38) 4-Chloroaniline	8.110	65	18647	1.686	ug/ml#	71
39) Hexachlorobutadiene	8.198	225	35778	1.808	ug/ml	98
40) p-Chloro-m-cresol	8.633	107	43135	1.925	ug/ml	96
41) 2-Methylnaphthalene	8.745	142	109920	2.199	ug/ml	97
42) 1-Methylnaphthalene	8.839	115	34523	1.819	ug/ml	92
43) Hexachlorocyclopentadiene	8.922	237	38961	1.774	ug/ml	100
44) 2,4,6-Trichlorophenol	9.039	196	39763	2.023	ug/ml	97
45) 2,4,5-Trichlorophenol	9.069	196	42671	2.027	ug/ml	94
47) 2-Chloronaphthalene	9.222	162	112952	2.125	ug/ml	95
48) 2-Nitroaniline	9.333	138	30554	1.908	ug/ml	86
49) 1,4-Dinitrobenzene	9.469	168	16574M3	1.967	ug/ml	
50) 1,3-Dinitrobenzene	9.545	168	17671	1.840	ug/ml#	1
51) Dimethyl phthalate	9.539	163	133276	2.060	ug/ml#	99
52) Acenaphthylene	9.627	152	168894	2.076	ug/ml	100
53) 2,6-Dinitrotoluene	9.580	165	27352	1.964	ug/ml#	76
54) 1,2-Dinitrobenzene	9.622	168	11678	1.967	ug/ml#	1
64) 3-Nitroaniline	9.739	138	29627	2.331	ug/ml	89
65) Acenaphthene	9.804	154	99535	2.170	ug/ml	92
66) 2,4-Dinitrophenol	9.839	184	14006	1.650	ug/ml	90
67) Dibenzofuran	9.974	168	161528	2.097	ug/ml	97
68) 2,4-Dinitrotoluene	9.974	165	36737	1.944	ug/ml	93
69) 4-Nitrophenol	9.922	65	21637	1.681	ug/ml#	81
70) 2,3,5,6-Tetrachlorophenol	10.063	232	35480	1.972	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL5.D
Acq On : 9 Oct 2024 9:41 pm
Operator : SV106:HNY
Sample : IL6,32,,ABNL2.5 Lot# 11008
Misc : WG1984388
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 11 11:34:43 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	10.104	232	34361	1.985	ug/ml		97
72)	Diethyl phthalate	10.233	149	135002	2.218	ug/ml		100
73)	Fluorene	10.304	166	126199	2.083	ug/ml		96
74)	4-Chlorophenyl phenyl ...	10.327	204	62859	1.971	ug/ml		91
75)	4-Nitroaniline	10.327	138	30097	2.275	ug/ml	#	81
76)	4,6-Dinitro-o-cresol	10.369	198	21077	1.990	ug/ml	#	61
77)	NDPA/DPA	10.439	169	110592	2.201	ug/ml		98
78)	Azobenzene	10.474	77	108731	1.890	ug/ml	#	91
80)	4-Bromophenyl phenyl e...	10.798	248	39090	1.965	ug/ml	#	83
81)	Hexachlorobenzene	10.851	284	44860	1.982	ug/ml	#	83
82)	Pentachlorophenol	11.045	266	26444	1.840	ug/ml		97
89)	Phenanthrene	11.233	178	195650	2.346	ug/ml		99
90)	Anthracene	11.286	178	195835	2.362	ug/ml		99
91)	Carbazole	11.451	167	179581	2.364	ug/ml		99
92)	Di-n-butylphthalate	11.839	149	214953	2.409	ug/ml		99
93)	Fluoranthene	12.398	202	226775	2.224	ug/ml	#	92
94)	Benzidine	12.545	184	129726	2.344	ug/ml	#	95
95)	Pyrene	12.615	202	240698	2.239	ug/ml		99
97)	Butyl benzyl phthalate	13.327	149	90156	2.195	ug/ml		86
105)	Benzo(a)anthracene	13.857	228	234867	2.094	ug/ml		99
106)	3,3'-Dichlorobenzidine	13.857	252	80905	2.180	ug/ml	#	97
107)	Chrysene	13.892	228	227893	2.102	ug/ml		100
108)	Bis(2-ethylhexyl)phtha...	13.968	149	145115	2.340	ug/ml	#	92
109)	Di-n-octylphthalate	14.651	149	232445	2.265	ug/ml	#	74
110)	Benzo(b)fluoranthene	14.974	252	236696	2.181	ug/ml	#	93
111)	Benzo(k)fluoranthene	14.998	252	212686	2.067	ug/ml	#	95
112)	Benzo(a)pyrene	15.286	252	205590	2.182	ug/ml	#	94
114)	Indeno(1,2,3-cd)pyrene	16.351	276	228073M6	2.615	ug/mL		
115)	Dibenzo(a,h)anthracene	16.374	278	218574	2.603	ug/ml	#	89
116)	Benzo(ghi)perylene	16.615	276	205979	2.651	ug/ml	#	87

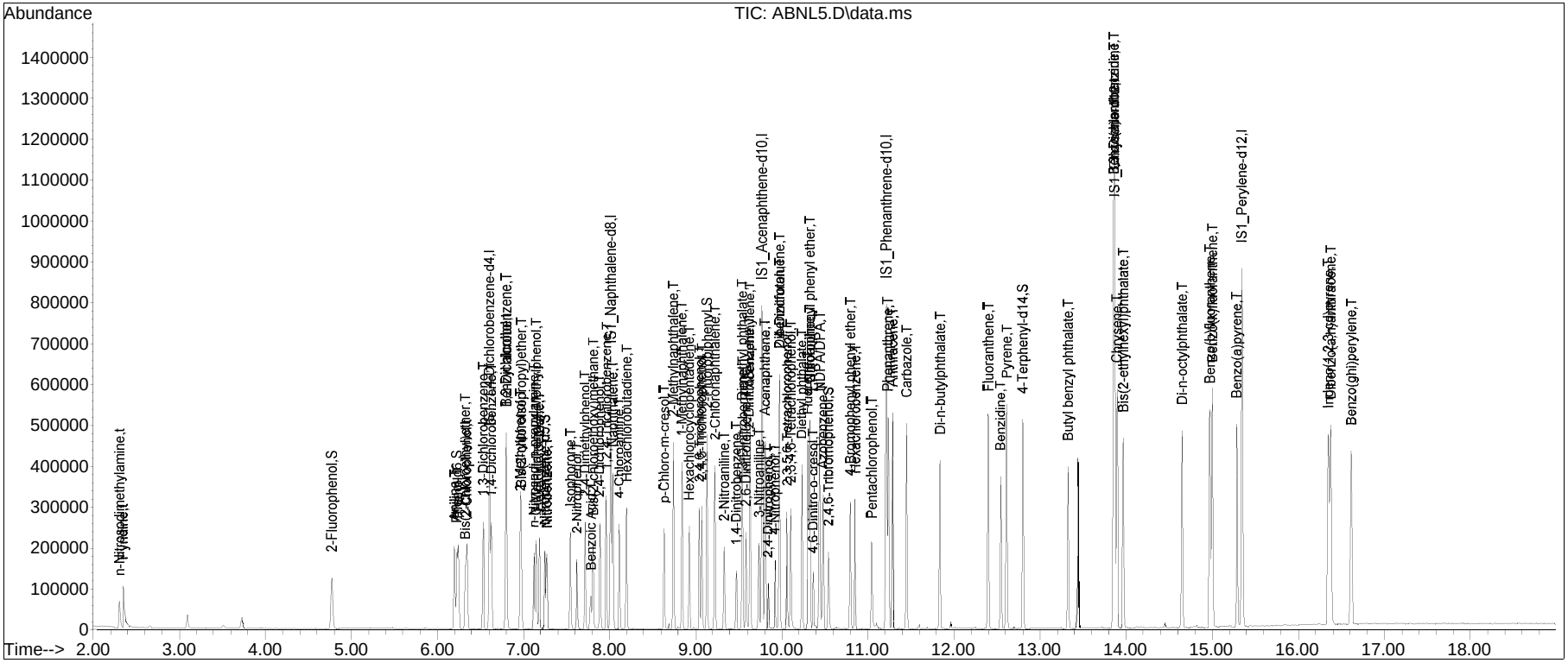
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL5.D
Acq On : 9 Oct 2024 9:41 pm
Operator : SV106:HNY
Sample : IL6,32,,ABNL2.5 Lot# 11008
Misc : WG1984388
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 11 11:34:43 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

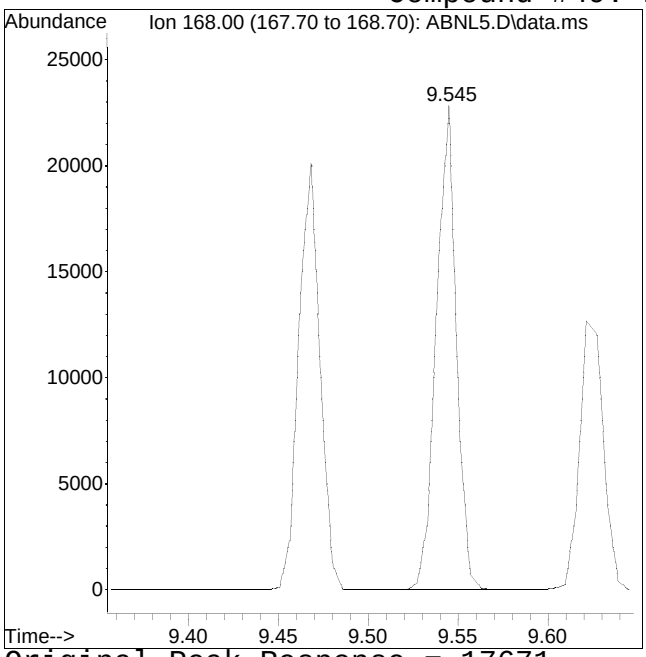
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•

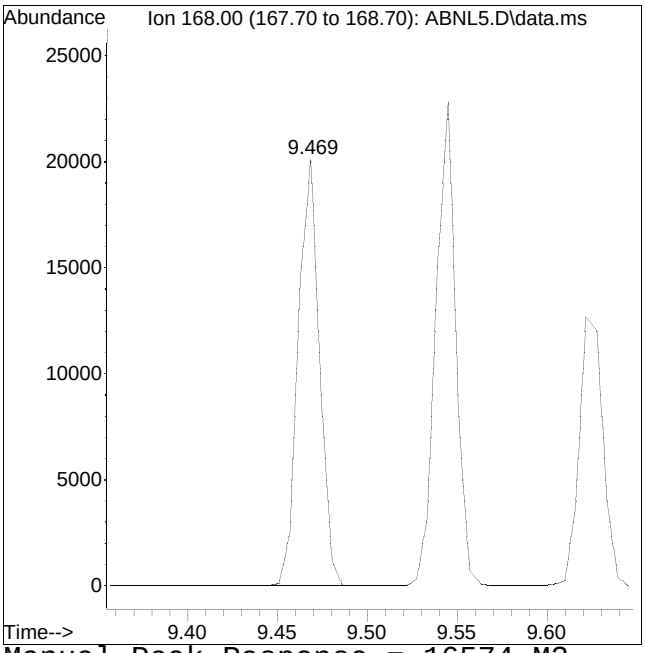


Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL5.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 9:41 pm Instrument : SV 106
Sample : IL6,32,,ABNL2.5 Lot# 11008Quant Date : 10/11/2024 11:13 am

Compound #49: 1,4-Dinitrobenzene





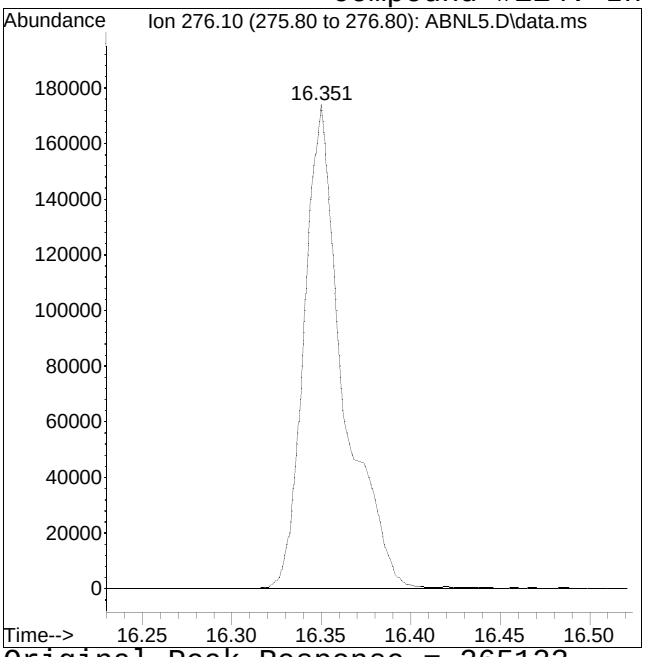
Original Peak Response = 17671 Manual Peak Response = 16574 M3

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

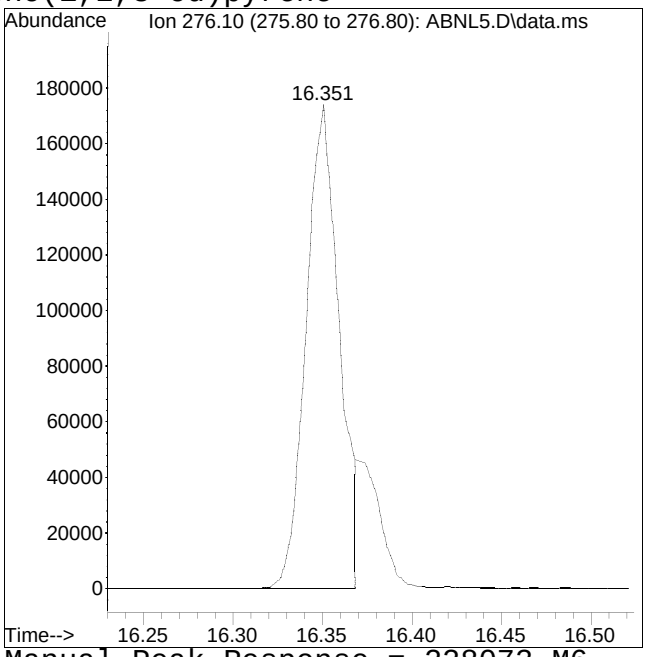
Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL5.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 9:41 pm Instrument : SV 106
Sample : IL6,32,,ABNL2.5 Lot# 11008Quant Date : 10/11/2024 11:13 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 265123



Manual Peak Response = 228073 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL4.D
Acq On : 9 Oct 2024 10:05 pm
Operator : SV106:HNY
Sample : IL7,32,,ABNL1 Lot# 11009
Misc : WG1984388
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 11 11:32:09 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.598	152	71339	4.000	ug/ml	0.00
Standard Area 1 = 69296			Recovery = 102.95%			
35) IS1_Naphthalene-d8	8.010	136	266497	4.000	ug/ml	# 0.00
Standard Area 1 = 264583			Recovery = 100.72%			
63) IS1_Acenaphthene-d10	9.769	164	156133	4.000	ug/ml	0.00
Standard Area 1 = 166975			Recovery = 93.51%			
88) IS1_Phenanthrene-d10	11.216	188	309183	4.000	ug/ml	0.00
Standard Area 1 = 326455			Recovery = 94.71%			
104) IS1_Chrysene-d12	13.868	240	327099	4.000	ug/ml	0.00
Standard Area 1 = 353807			Recovery = 92.45%			
113) IS1_Perylene-d12	15.345	264	347213	4.000	ug/ml	0.00
Standard Area 1 = 379737			Recovery = 91.44%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.775	112	21159	1.026	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 51.30%			
7) Phenol-d6	6.228	99	25905	0.918	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 45.90%			
19) Nitrobenzene-d5	7.245	82	22769	0.789	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 78.90%			
46) 2-Fluorobiphenyl	9.127	172	59958	0.876	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 87.60%			
79) 2,4,6-Tribromophenol	10.545	330	8795	0.904	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 45.20%			
96) 4-Terphenyl-d14	12.804	244	80600	0.969	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 96.90%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.310	74	13176	0.868	ug/ml#	74
3) Pyridine	2.363	79	20777	0.837	ug/ml#	64
5) Aniline	6.198	93	32716	0.895	ug/ml	94
6) 2-Chlorophenol	6.345	128	24128	1.051	ug/ml	90
8) Phenol	6.245	94	27320	0.933	ug/ml	96
9) Bis(2-chloroethyl)ether	6.328	93	21489	0.894	ug/ml#	79
10) 1,3-Dichlorobenzene	6.528	146	29330	1.063	ug/ml	97
11) 1,4-Dichlorobenzene	6.622	146	31063	1.113	ug/ml	98
12) 1,2-Dichlorobenzene	6.798	146	28092	1.035	ug/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL4.D
Acq On : 9 Oct 2024 10:05 pm
Operator : SV106:HNY
Sample : IL7,32,,ABNL1 Lot# 11009
Misc : WG1984388
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 11 11:32:09 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.804	79	17852	0.790	ug/ml	96
14) Bis(2-chloroisopropyl)...	6.975	45	35860	0.928	ug/ml#	58
15) 2-Methylphenol	6.963	108	19349	0.917	ug/ml	96
16) Hexachloroethane	7.181	117	10924	0.984	ug/ml#	66
17) n-Nitrosodi-n-propylamine	7.122	70	16244	0.862	ug/ml	97
18) 3-Methylphenol/4-Methy...	7.145	108	21188	0.929	ug/ml	98
20) Nitrobenzene	7.269	77	23506	0.802	ug/ml	95
21) Isophorone	7.545	82	41378	0.841	ug/ml	99
22) 2-Nitrophenol	7.622	139	12144	0.984	ug/ml	90
23) 2,4-Dimethylphenol	7.716	107	19420	0.837	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.810	93	28891	0.911	ug/ml	97
25) 2,4-Dichlorophenol	7.881	162	21411	0.974	ug/ml	96
26) 1,2,4-Trichlorobenzene	7.963	180	25382	0.942	ug/ml	98
36) Naphthalene	8.033	128	73731	0.965	ug/ml	99
37) Benzoic Acid	7.775	105	7545	0.752	ug/ml#	89
38) 4-Chloroaniline	8.110	65	8758	0.778	ug/ml	85
39) Hexachlorobutadiene	8.198	225	16407	0.814	ug/ml	98
40) p-Chloro-m-cresol	8.633	107	19065	0.835	ug/ml	97
41) 2-Methylnaphthalene	8.745	142	48095	0.945	ug/ml	94
42) 1-Methylnaphthalene	8.839	115	15739	0.814	ug/ml	94
43) Hexachlorocyclopentadiene	8.922	237	17168	0.768	ug/ml	96
44) 2,4,6-Trichlorophenol	9.039	196	17212	0.860	ug/ml	97
45) 2,4,5-Trichlorophenol	9.069	196	18514	0.863	ug/ml	98
47) 2-Chloronaphthalene	9.222	162	51319	0.948	ug/ml	97
48) 2-Nitroaniline	9.333	138	13384	0.821	ug/ml	87
49) 1,4-Dinitrobenzene	9.469	168	6701	0.781	ug/ml	89
50) 1,3-Dinitrobenzene	9.545	168	8335	0.852	ug/ml#	1
51) Dimethyl phthalate	9.539	163	59446	0.902	ug/ml#	99
52) Acenaphthylene	9.627	152	74788	0.902	ug/ml	99
53) 2,6-Dinitrotoluene	9.580	165	12135	0.855	ug/ml#	73
54) 1,2-Dinitrobenzene	9.627	168	5451	0.901	ug/ml#	1
64) 3-Nitroaniline	9.739	138	12094	0.970	ug/ml#	98
65) Acenaphthene	9.804	154	45406	1.009	ug/ml	91
66) 2,4-Dinitrophenol	9.845	184	5396	0.648	ug/ml#	86
67) Dibenzofuran	9.975	168	73937	0.978	ug/ml	94
68) 2,4-Dinitrotoluene	9.975	165	16078	0.867	ug/ml	92
69) 4-Nitrophenol	9.922	65	9501	0.753	ug/ml#	83
70) 2,3,5,6-Tetrachlorophenol	10.063	232	14729	0.835	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL4.D
Acq On : 9 Oct 2024 10:05 pm
Operator : SV106:HNY
Sample : IL7,32,,ABNL1 Lot# 11009
Misc : WG1984388
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 11 11:32:09 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	10.104	232	15221	0.897	ug/ml	98
72)	Diethyl phthalate	10.233	149	57465	0.963	ug/ml	97
73)	Fluorene	10.310	166	57874	0.974	ug/ml	96
74)	4-Chlorophenyl phenyl ...	10.327	204	28945	0.925	ug/ml	89
75)	4-Nitroaniline	10.327	138	13152	1.013	ug/ml	85
76)	4,6-Dinitro-o-cresol	10.369	198	7935	0.764	ug/ml#	67
77)	NDPA/DPA	10.439	169	49470	1.004	ug/ml	99
78)	Azobenzene	10.474	77	48116	0.853	ug/ml#	91
80)	4-Bromophenyl phenyl e...	10.798	248	18237	0.934	ug/ml#	83
81)	Hexachlorobenzene	10.851	284	19927	0.898	ug/ml#	81
82)	Pentachlorophenol	11.045	266	10299	0.731	ug/ml	97
89)	Phenanthrene	11.233	178	89296	1.034	ug/ml	99
90)	Anthracene	11.286	178	87718	1.022	ug/ml	99
91)	Carbazole	11.451	167	79979	1.017	ug/ml	99
92)	Di-n-butylphthalate	11.839	149	95333	1.032	ug/ml	98
93)	Fluoranthene	12.398	202	100934	0.956	ug/ml#	92
94)	Benzidine	12.545	184	55776	0.973	ug/ml#	96
95)	Pyrene	12.616	202	108332	0.973	ug/ml	99
97)	Butyl benzyl phthalate	13.327	149	38502	0.905	ug/ml	88
105)	Benzo(a)anthracene	13.857	228	106990	0.885	ug/ml	100
106)	3,3'-Dichlorobenzidine	13.857	252	35971	0.900	ug/ml	97
107)	Chrysene	13.898	228	107915	0.924	ug/ml	98
108)	Bis(2-ethylhexyl)phtha...	13.968	149	62019	0.928	ug/ml#	91
109)	Di-n-octylphthalate	14.651	149	94640	0.856	ug/ml#	74
110)	Benzo(b)fluoranthene	14.974	252	109491	0.936	ug/ml#	95
111)	Benzo(k)fluoranthene	14.998	252	98758	0.891	ug/ml#	93
112)	Benzo(a)pyrene	15.292	252	93110	0.917	ug/ml#	94
114)	Indeno(1,2,3-cd)pyrene	16.351	276	100815M6	1.073	ug/mL	
115)	Dibenzo(a,h)anthracene	16.374	278	98550	1.090	ug/ml#	90
116)	Benzo(ghi)perylene	16.615	276	94121	1.125	ug/ml#	89

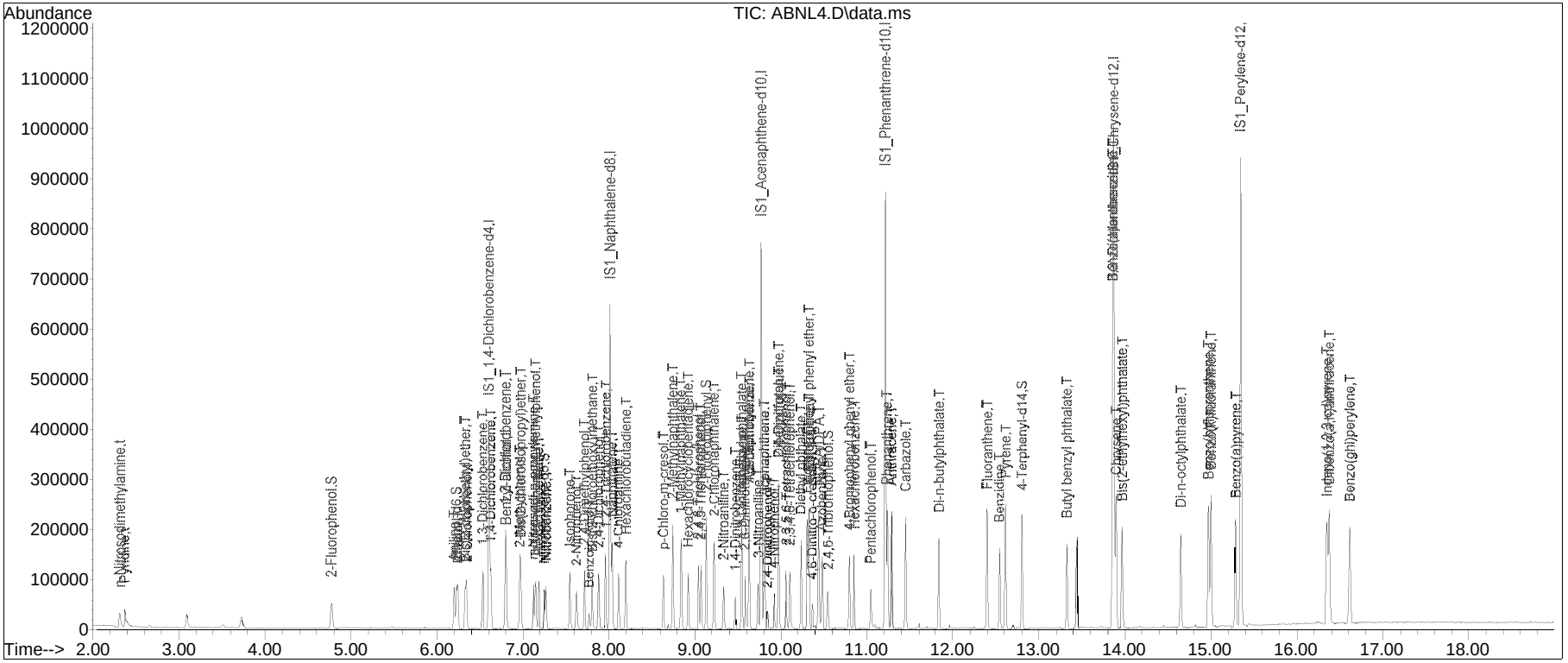
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL4.D
Acq On : 9 Oct 2024 10:05 pm
Operator : SV106:HNY
Sample : IL7,32,,ABNL1 Lot# 11009
Misc : WG1984388
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 11 11:32:09 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

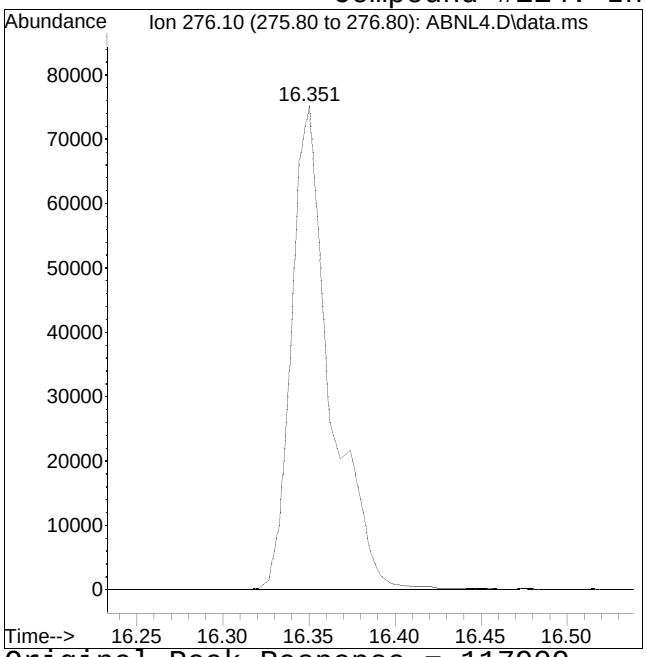
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•



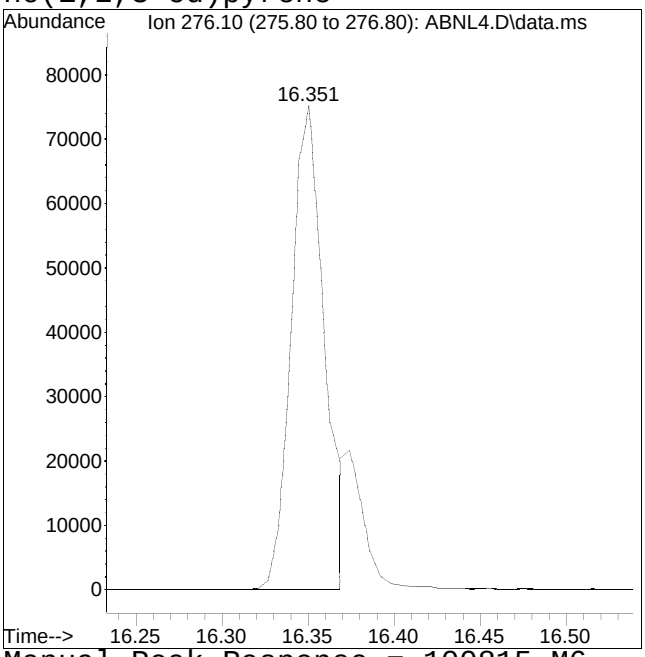
Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL4.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 10:05 pm Instrument : SV 106
Sample : IL7,32,,ABNL1 Lot# 11009 Quant Date : 10/11/2024 11:13 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 117909



Manual Peak Response = 100815 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL3.D
Acq On : 9 Oct 2024 10:29 pm
Operator : SV106:HNY
Sample : IL8,32,,ABNL0.5 Lot# 11010
Misc : WG1984388
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 11 11:29:41 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.598	152	66051	4.000	ug/ml	0.00
Standard Area 1 = 69296			Recovery = 95.32%			
35) IS1_Naphthalene-d8	8.010	136	256751	4.000	ug/ml	# 0.00
Standard Area 1 = 264583			Recovery = 97.04%			
63) IS1_Acenaphthene-d10	9.769	164	160411	4.000	ug/ml	0.00
Standard Area 1 = 166975			Recovery = 96.07%			
88) IS1_Phenanthrene-d10	11.216	188	323665	4.000	ug/ml	0.00
Standard Area 1 = 326455			Recovery = 99.15%			
104) IS1_Chrysene-d12	13.868	240	338113	4.000	ug/ml	0.00
Standard Area 1 = 353807			Recovery = 95.56%			
113) IS1_Perylene-d12	15.345	264	355610	4.000	ug/ml	0.00
Standard Area 1 = 379737			Recovery = 93.65%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.775	112	9693	0.508	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 25.40%			
7) Phenol-d6	6.228	99	11340	0.434	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 21.70%			
19) Nitrobenzene-d5	7.245	82	10375	0.388	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 38.80%			
46) 2-Fluorobiphenyl	9.127	172	27368	0.415	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 41.50%			
79) 2,4,6-Tribromophenol	10.539	330	3967	0.397	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 19.85%			
96) 4-Terphenyl-d14	12.804	244	39616	0.455	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 45.50%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.310	74	6334	0.451	ug/ml#	69
3) Pyridine	2.375	79	9961M1	0.433	ug/ml	
5) Aniline	6.204	93	13801	0.408	ug/ml	99
6) 2-Chlorophenol	6.345	128	10062	0.473	ug/ml	94
8) Phenol	6.245	94	11649	0.430	ug/ml	98
9) Bis(2-chloroethyl)ether	6.328	93	9537	0.428	ug/ml#	82
10) 1,3-Dichlorobenzene	6.528	146	13732	0.538	ug/ml	95
11) 1,4-Dichlorobenzene	6.622	146	13732	0.531	ug/ml	98
12) 1,2-Dichlorobenzene	6.798	146	12792	0.509	ug/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL3.D
Acq On : 9 Oct 2024 10:29 pm
Operator : SV106:HNY
Sample : IL8,32,,ABNL0.5 Lot# 11010
Misc : WG1984388
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 11 11:29:41 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.804	79	8109	0.387	ug/ml	95
14) Bis(2-chloroisopropyl)...	6.975	45	15637	0.437	ug/ml#	55
15) 2-Methylphenol	6.963	108	8731	0.447	ug/ml	97
16) Hexachloroethane	7.186	117	4938	0.480	ug/ml#	65
17) n-Nitrosodi-n-propylamine	7.122	70	7045	0.404	ug/ml	93
18) 3-Methylphenol/4-Methy...	7.145	108	9500	0.450	ug/ml	99
20) Nitrobenzene	7.269	77	10659	0.393	ug/ml	96
21) Isophorone	7.545	82	18275	0.401	ug/ml	95
22) 2-Nitrophenol	7.622	139	4949	0.433	ug/ml	90
23) 2,4-Dimethylphenol	7.716	107	8695	0.405	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.810	93	12716	0.433	ug/ml#	96
25) 2,4-Dichlorophenol	7.881	162	9099	0.447	ug/ml	92
26) 1,2,4-Trichlorobenzene	7.963	180	11671	0.468	ug/ml	96
36) Naphthalene	8.033	128	34138	0.464	ug/ml	99
37) Benzoic Acid	7.775	105	2290M1	0.489	ug/ml	
38) 4-Chloroaniline	8.110	65	3555	0.328	ug/ml#	68
39) Hexachlorobutadiene	8.198	225	7108	0.366	ug/ml	100
40) p-Chloro-m-cresol	8.633	107	8248	0.375	ug/ml	96
41) 2-Methylnaphthalene	8.745	142	22014	0.449	ug/ml	98
42) 1-Methylnaphthalene	8.839	115	7325	0.393	ug/ml	92
43) Hexachlorocyclopentadiene	8.922	237	7896	0.366	ug/ml	99
44) 2,4,6-Trichlorophenol	9.039	196	8087	0.419	ug/ml	91
45) 2,4,5-Trichlorophenol	9.069	196	8138	0.394	ug/ml	93
47) 2-Chloronaphthalene	9.222	162	23352	0.448	ug/ml	94
48) 2-Nitroaniline	9.333	138	6274	0.399	ug/ml#	81
49) 1,4-Dinitrobenzene	9.469	168	3313	0.401	ug/ml	80
50) 1,3-Dinitrobenzene	9.545	168	3540	0.376	ug/ml#	1
51) Dimethyl phthalate	9.539	163	28188	0.444	ug/ml	99
52) Acenaphthylene	9.627	152	34410	0.431	ug/ml	100
53) 2,6-Dinitrotoluene	9.580	165	5175	0.379	ug/ml#	78
54) 1,2-Dinitrobenzene	9.627	168	2228	0.382	ug/ml#	1
64) 3-Nitroaniline	9.739	138	5701	0.445	ug/ml	89
65) Acenaphthene	9.804	154	21041	0.455	ug/ml	87
66) 2,4-Dinitrophenol	9.845	184	1597	0.187	ug/ml#	71
67) Dibenzofuran	9.975	168	33587	0.433	ug/ml	97
68) 2,4-Dinitrotoluene	9.975	165	7068	0.371	ug/ml	98
69) 4-Nitrophenol	9.922	65	3791	0.292	ug/ml#	82
70) 2,3,5,6-Tetrachlorophenol	10.063	232	6751	0.372	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL3.D
Acq On : 9 Oct 2024 10:29 pm
Operator : SV106:HNY
Sample : IL8,32,,ABNL0.5 Lot# 11010
Misc : WG1984388
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 11 11:29:41 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	10.104	232	6792	0.389	ug/ml		99
72)	Diethyl phthalate	10.233	149	28402	0.463	ug/ml		98
73)	Fluorene	10.310	166	26998	0.442	ug/ml		95
74)	4-Chlorophenyl phenyl ...	10.327	204	14085	0.438	ug/ml		87
75)	4-Nitroaniline	10.327	138	5841	0.438	ug/ml		85
76)	4,6-Dinitro-o-cresol	10.369	198	3366	0.315	ug/ml	#	62
77)	NDPA/DPA	10.439	169	23369	0.462	ug/ml		99
78)	Azobenzene	10.474	77	21953	0.379	ug/ml	#	88
80)	4-Bromophenyl phenyl e...	10.798	248	8864	0.442	ug/ml	#	82
81)	Hexachlorobenzene	10.851	284	9663	0.424	ug/ml	#	82
82)	Pentachlorophenol	11.045	266	4435	0.306	ug/ml		90
89)	Phenanthrene	11.233	178	41775	0.462	ug/ml		99
90)	Anthracene	11.286	178	42546	0.473	ug/ml		99
91)	Carbazole	11.451	167	37204	0.452	ug/ml		99
92)	Di-n-butylphthalate	11.839	149	46219	0.478	ug/ml		98
93)	Fluoranthene	12.392	202	50109	0.453	ug/ml	#	92
94)	Benzidine	12.545	184	24083	0.401	ug/ml	#	93
95)	Pyrene	12.616	202	53019	0.455	ug/ml		97
97)	Butyl benzyl phthalate	13.327	149	17868	0.401	ug/ml		88
105)	Benzo(a)anthracene	13.857	228	51493	0.412	ug/ml		99
106)	3,3'-Dichlorobenzidine	13.857	252	15712	0.380	ug/ml		98
107)	Chrysene	13.898	228	52235	0.432	ug/ml		99
108)	Bis(2-ethylhexyl)phtha...	13.968	149	28063	0.406	ug/ml	#	92
109)	Di-n-octylphthalate	14.651	149	44366	0.388	ug/ml	#	74
110)	Benzo(b)fluoranthene	14.974	252	50696	0.419	ug/ml	#	95
111)	Benzo(k)fluoranthene	14.998	252	46890	0.409	ug/ml	#	95
112)	Benzo(a)pyrene	15.286	252	40649	0.387	ug/ml	#	95
114)	Indeno(1,2,3-cd)pyrene	16.351	276	46348M6	0.482	ug/mL		
115)	Dibenzo(a,h)anthracene	16.374	278	44838	0.484	ug/ml	#	91
116)	Benzo(ghi)perylene	16.615	276	43164	0.504	ug/ml	#	89

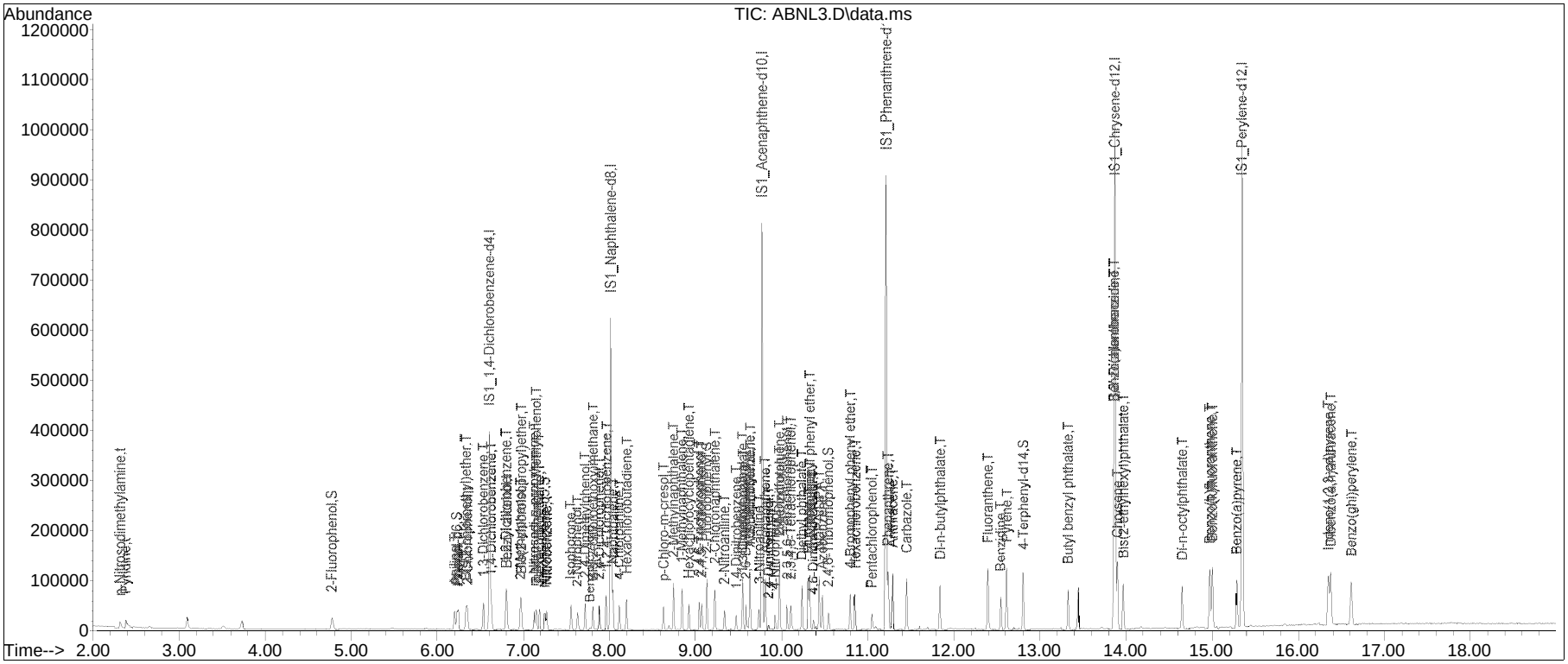
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL3.D
Acq On : 9 Oct 2024 10:29 pm
Operator : SV106:HNY
Sample : IL8,32,,ABNL0.5 Lot# 11010
Misc : WG1984388
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 11 11:29:41 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

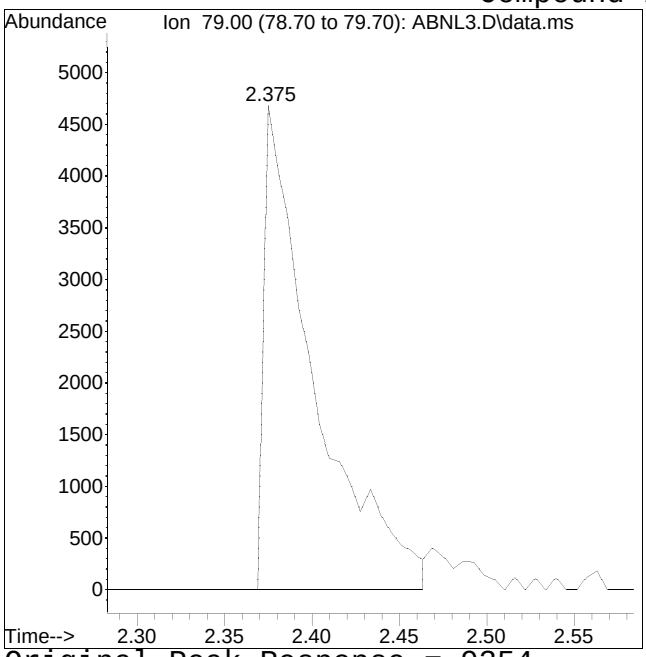
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•

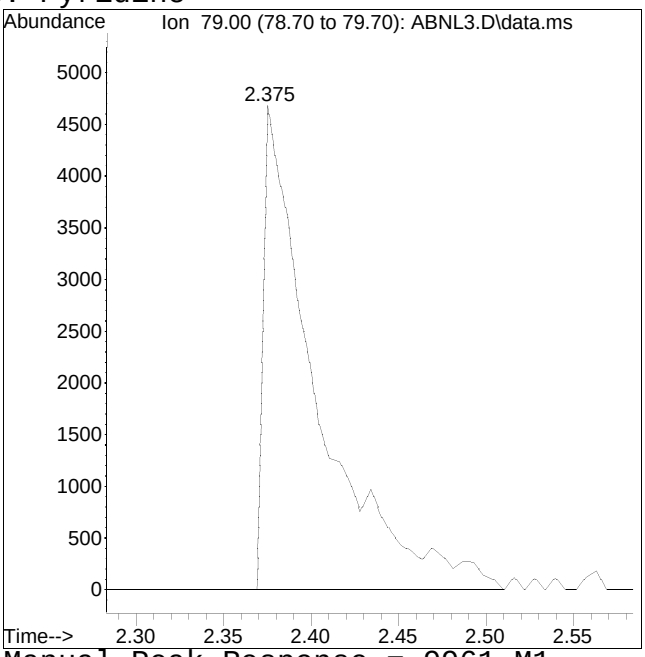


Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL3.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 10:29 pm Instrument : SV 106
Sample : IL8,32,,ABNL0.5 Lot# 11010Quant Date : 10/11/2024 11:13 am

Compound #3: Pyridine





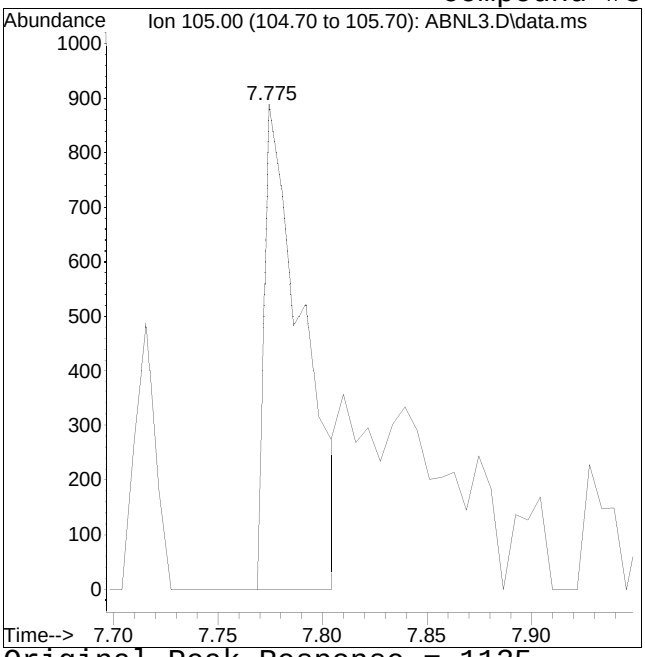
Original Peak Response = 9354 Manual Peak Response = 9961 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

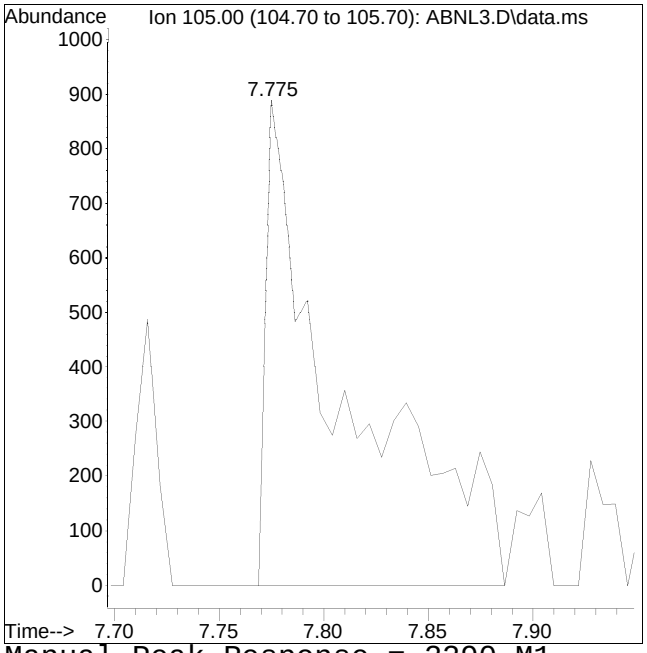
Data Path : I:\8270\SV106\241009RVTicaQ
Data File : ABNL3.D
Date Inj'd : 10/9/2024 10:29 pm
Sample : IL8,32,,ABNL0.5 Lot# 11010

Method : FS241009SV106.m
Operator : SV106:HNY
Instrument : SV 106
Quant Date : 10/11/2024 11:13 am

Compound #37: Benzoic Acid



Original Peak Response = 1135



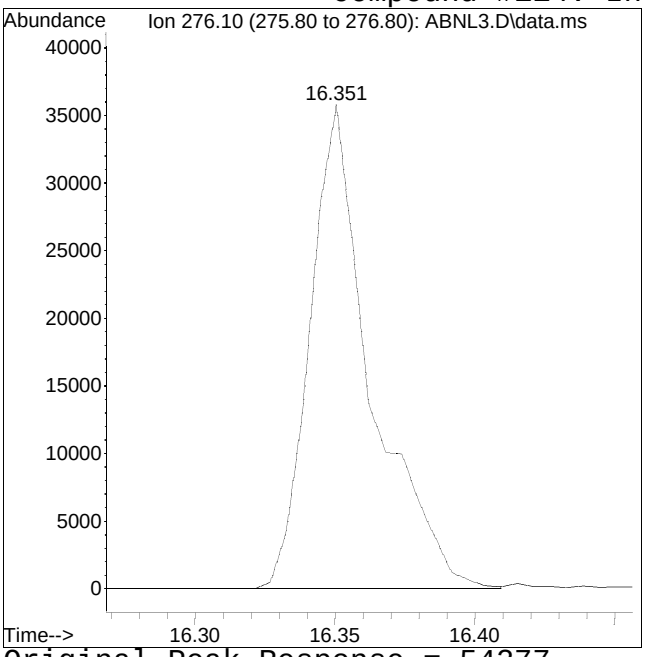
Manual Peak Response = 2290 M1

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

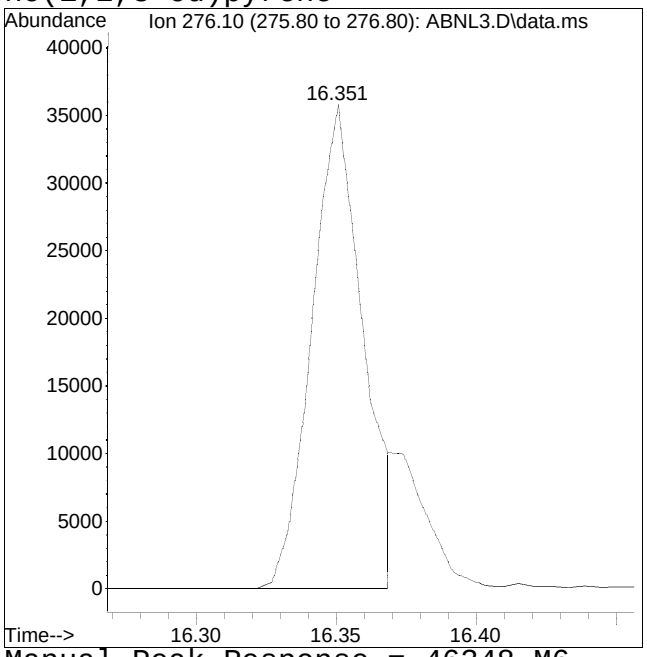
Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL3.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 10:29 pm Instrument : SV 106
Sample : IL8,32,,ABNL0.5 Lot# 11010Quant Date : 10/11/2024 11:13 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 54277



Manual Peak Response = 46348 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL2.D
Acq On : 9 Oct 2024 10:52 pm
Operator : SV106:HNY
Sample : IL9,32,,ABNL0.2 Lot# 11011
Misc : WG1984388
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 11 11:27:34 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	6.598	152	90668	4.000 ug/ml	0.00
Standard Area 1 = 69296			Recovery = 130.84%		
35) IS1_Naphthalene-d8	8.010	136	337819	4.000 ug/ml	# 0.00
Standard Area 1 = 264583			Recovery = 127.68%		
63) IS1_Acenaphthene-d10	9.769	164	197727	4.000 ug/ml	0.00
Standard Area 1 = 166975			Recovery = 118.42%		
88) IS1_Phenanthrene-d10	11.216	188	380017	4.000 ug/ml	0.00
Standard Area 1 = 326455			Recovery = 116.41%		
104) IS1_Chrysene-d12	13.868	240	377623	4.000 ug/ml	0.00
Standard Area 1 = 353807			Recovery = 106.73%		
113) IS1_Perylene-d12	15.351	264	394228	4.000 ug/ml	0.00
Standard Area 1 = 379737			Recovery = 103.82%		
System Monitoring Compounds					
4) 2-Fluorophenol	4.775	112	5909	0.225 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 11.25%#		
7) Phenol-d6	6.228	99	7579	0.211 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 10.55%#		
19) Nitrobenzene-d5	7.245	82	6186	0.169 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 16.90%#		
46) 2-Fluorobiphenyl	9.128	172	16742	0.193 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 19.30%#		
79) 2,4,6-Tribromophenol	10.545	330	2420	0.196 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 9.80%#		
96) 4-Terphenyl-d14	12.804	244	21963	0.215 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 21.50%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.316	74	3587	0.186 ug/ml#	75
3) Pyridine	2.393	79	6151M1	0.195 ug/ml	
5) Aniline	6.204	93	7937	0.171 ug/ml	94
6) 2-Chlorophenol	6.345	128	6817	0.234 ug/ml	89
8) Phenol	6.240	94	7208	0.194 ug/ml	97
9) Bis(2-chloroethyl)ether	6.328	93	6481	0.212 ug/ml	87
10) 1,3-Dichlorobenzene	6.528	146	8139	0.232 ug/ml	97
11) 1,4-Dichlorobenzene	6.622	146	8599	0.242 ug/ml	96
12) 1,2-Dichlorobenzene	6.798	146	7810	0.226 ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL2.D
Acq On : 9 Oct 2024 10:52 pm
Operator : SV106:HNY
Sample : IL9,32,,ABNL0.2 Lot# 11011
Misc : WG1984388
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 11 11:27:34 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.804	79	5192	0.181	ug/ml	96
14) Bis(2-chloroisopropyl)...	6.975	45	9711	0.198	ug/ml#	49
15) 2-Methylphenol	6.969	108	5170	0.193	ug/ml	91
16) Hexachloroethane	7.187	117	2882	0.204	ug/ml#	55
17) n-Nitrosodi-n-propylamine	7.122	70	4563	0.190	ug/ml#	91
18) 3-Methylphenol/4-Methy...	7.145	108	5654	0.195	ug/ml	90
20) Nitrobenzene	7.269	77	6544	0.176	ug/ml	96
21) Isophorone	7.545	82	11305	0.181	ug/ml	99
22) 2-Nitrophenol	7.622	139	3366	0.215	ug/ml	91
23) 2,4-Dimethylphenol	7.716	107	5275	0.179	ug/ml	95
24) Bis(2-chloroethoxy)met...	7.810	93	7160	0.178	ug/ml	94
25) 2,4-Dichlorophenol	7.881	162	5857	0.210	ug/ml	96
26) 1,2,4-Trichlorobenzene	7.963	180	7195	0.210	ug/ml	95
36) Naphthalene	8.034	128	20745	0.214	ug/ml	100
37) Benzoic Acid	0.000		0	N.D.		
38) 4-Chloroaniline	8.110	65	2439	0.171	ug/ml	82
39) Hexachlorobutadiene	8.198	225	4427	0.173	ug/ml	97
40) p-Chloro-m-cresol	8.634	107	5225	0.181	ug/ml	95
41) 2-Methylnaphthalene	8.745	142	13568	0.210	ug/ml	96
42) 1-Methylnaphthalene	8.839	115	4484	0.183	ug/ml	95
43) Hexachlorocyclopentadiene	8.922	237	4695	0.166	ug/ml	94
44) 2,4,6-Trichlorophenol	9.039	196	4803	0.189	ug/ml	91
45) 2,4,5-Trichlorophenol	9.069	196	5128	0.189	ug/ml	86
47) 2-Chloronaphthalene	9.222	162	14120	0.206	ug/ml	95
48) 2-Nitroaniline	9.333	138	3567	0.173	ug/ml	85
49) 1,4-Dinitrobenzene	9.469	168	1885M3	0.173	ug/ml	
50) 1,3-Dinitrobenzene	9.545	168	1762	0.142	ug/ml#	1
51) Dimethyl phthalate	9.539	163	15938	0.191	ug/ml#	98
52) Acenaphthylene	9.628	152	20761	0.198	ug/ml	98
53) 2,6-Dinitrotoluene	9.581	165	2835	0.158	ug/ml#	85
54) 1,2-Dinitrobenzene	9.628	168	1338	0.174	ug/ml#	1
64) 3-Nitroaniline	9.739	138	3244	0.205	ug/ml#	87
65) Acenaphthene	9.798	154	12230	0.215	ug/ml	87
66) 2,4-Dinitrophenol	9.845	184	503	0.048	ug/ml#	25
67) Dibenzofuran	9.975	168	20998	0.219	ug/ml	94
68) 2,4-Dinitrotoluene	9.975	165	4138	0.176	ug/ml	93
69) 4-Nitrophenol	9.922	65	2244	0.140	ug/ml	95
70) 2,3,5,6-Tetrachlorophenol	10.063	232	3760	0.168	ug/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL2.D
Acq On : 9 Oct 2024 10:52 pm
Operator : SV106:HNY
Sample : IL9,32,,ABNL0.2 Lot# 11011
Misc : WG1984388
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 11 11:27:34 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	10.104	232	3678M3	0.171	ug/ml		
72)	Diethyl phthalate	10.233	149	15840	0.210	ug/ml		97
73)	Fluorene	10.310	166	15617	0.208	ug/ml		89
74)	4-Chlorophenyl phenyl ...	10.328	204	8199	0.207	ug/ml		89
75)	4-Nitroaniline	10.328	138	2977	0.181	ug/ml		91
76)	4,6-Dinitro-o-cresol	10.369	198	1212	0.092	ug/ml	#	77
77)	NDPA/DPA	10.439	169	12887	0.206	ug/ml		96
78)	Azobenzene	10.475	77	12942	0.181	ug/ml		93
80)	4-Bromophenyl phenyl e...	10.798	248	4854	0.196	ug/ml	#	83
81)	Hexachlorobenzene	10.851	284	5855	0.208	ug/ml	#	81
82)	Pentachlorophenol	11.045	266	1872	0.105	ug/ml		96
89)	Phenanthrene	11.239	178	25444	0.240	ug/ml		97
90)	Anthracene	11.286	178	23814	0.226	ug/ml		99
91)	Carbazole	11.451	167	19842	0.205	ug/ml		97
92)	Di-n-butylphthalate	11.839	149	24348	0.214	ug/ml		99
93)	Fluoranthene	12.398	202	26940	0.208	ug/ml	#	93
94)	Benzidine	12.545	184	9775	0.139	ug/ml	#	93
95)	Pyrene	12.616	202	28315	0.207	ug/ml		99
97)	Butyl benzyl phthalate	13.327	149	9319	0.178	ug/ml		89
105)	Benzo(a)anthracene	13.863	228	28938	0.207	ug/ml		97
106)	3,3'-Dichlorobenzidine	13.857	252	8054	0.174	ug/ml	#	94
107)	Chrysene	13.898	228	27323	0.203	ug/ml		98
108)	Bis(2-ethylhexyl)phtha...	13.968	149	14429	0.187	ug/ml	#	91
109)	Di-n-octylphthalate	14.651	149	23620	0.185	ug/ml	#	76
110)	Benzo(b)fluoranthene	14.974	252	25853	0.191	ug/ml	#	94
111)	Benzo(k)fluoranthene	14.998	252	24956	0.195	ug/ml	#	94
112)	Benzo(a)pyrene	15.292	252	22337	0.191	ug/ml	#	93
114)	Indeno(1,2,3-cd)pyrene	16.351	276	24560M6	0.230	ug/mL		
115)	Dibenzo(a,h)anthracene	16.374	278	24341	0.237	ug/ml	#	91
116)	Benzo(ghi)perylene	16.615	276	23004	0.242	ug/ml	#	90

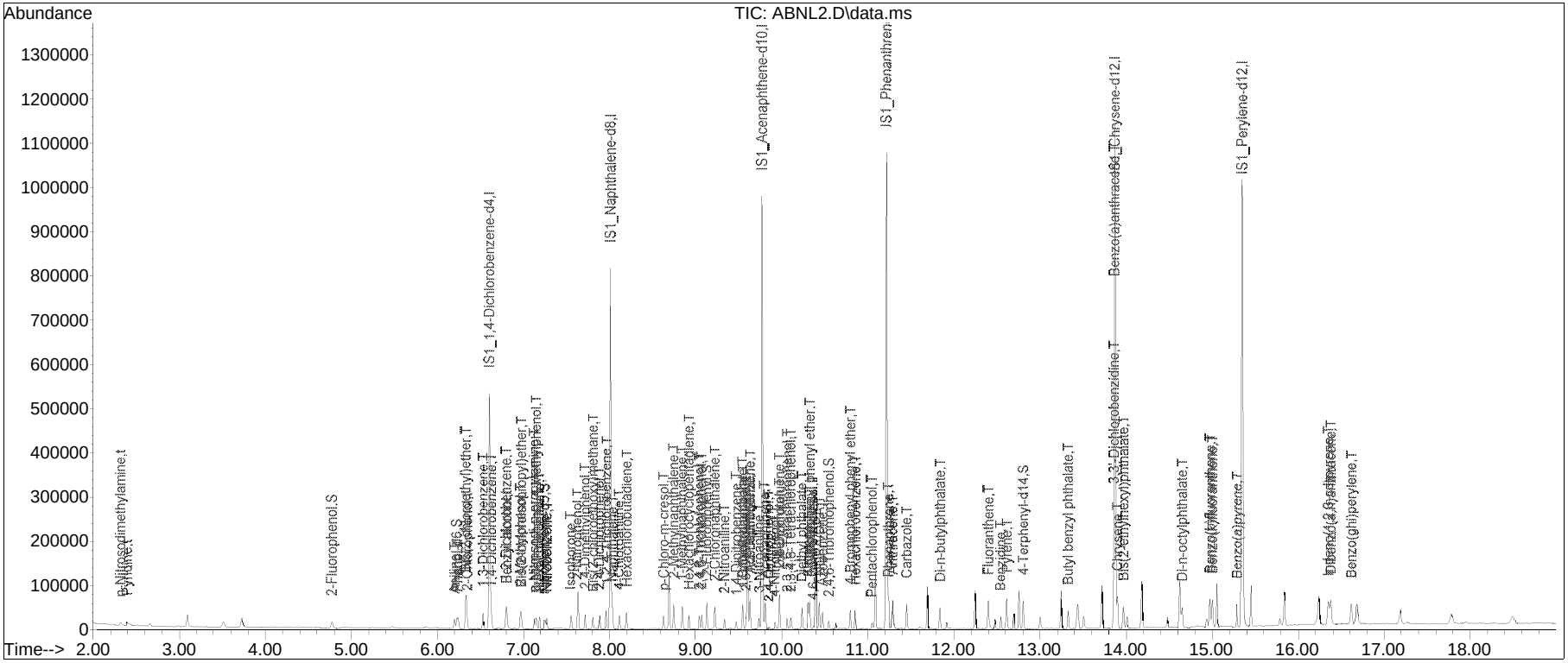
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL2.D
Acq On : 9 Oct 2024 10:52 pm
Operator : SV106:HNY
Sample : IL9,32,,ABNL0.2 Lot# 11011
Misc : WG1984388
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 11 11:27:34 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

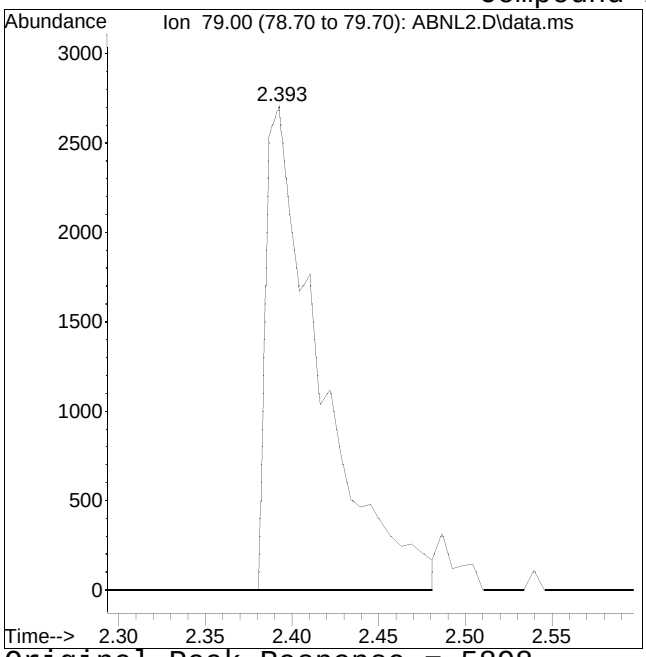
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•



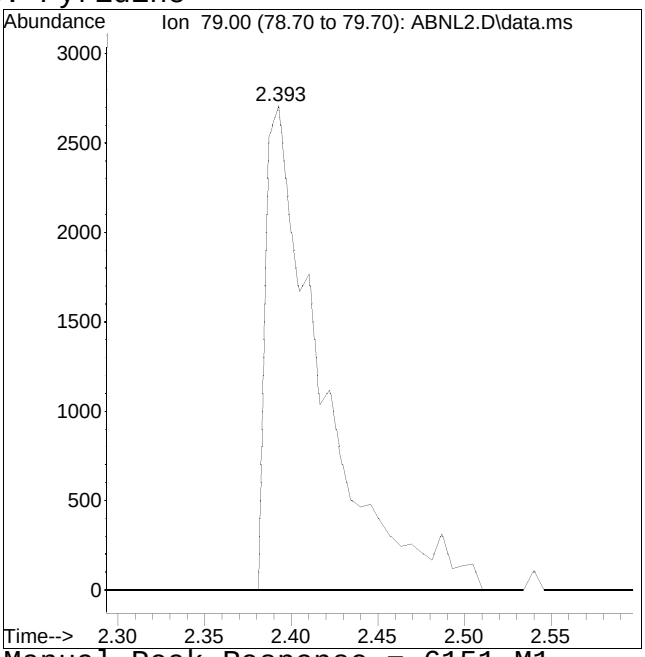
Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL2.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 10:52 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 11011Quant Date : 10/11/2024 11:13 am

Compound #3: Pyridine



Original Peak Response = 5898



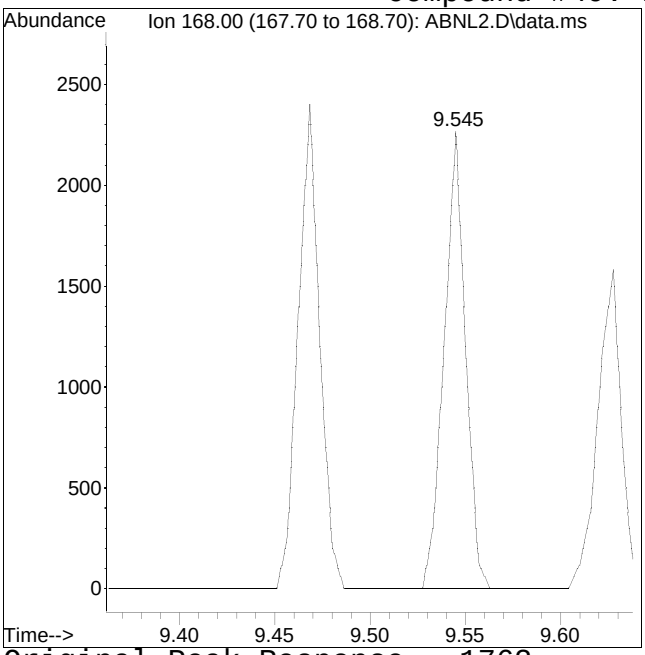
Manual Peak Response = 6151 M1

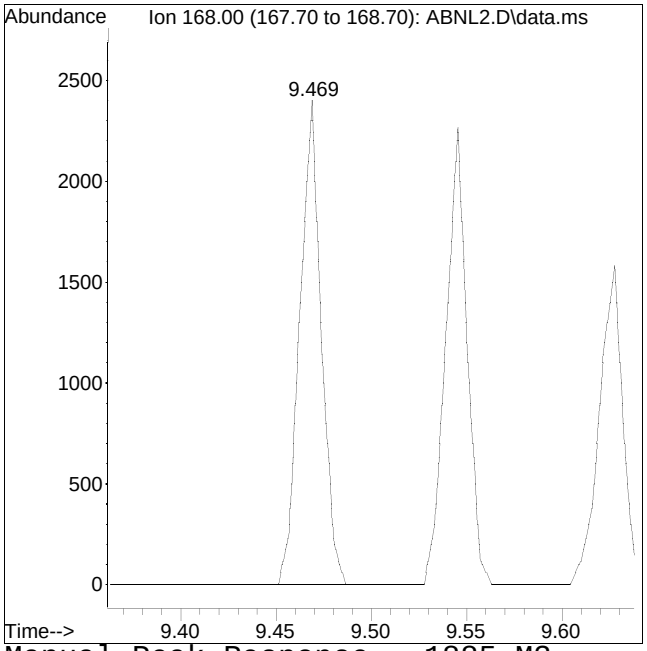
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL2.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 10:52 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 11011Quant Date : 10/11/2024 11:13 am

Compound #49: 1,4-Dinitrobenzene





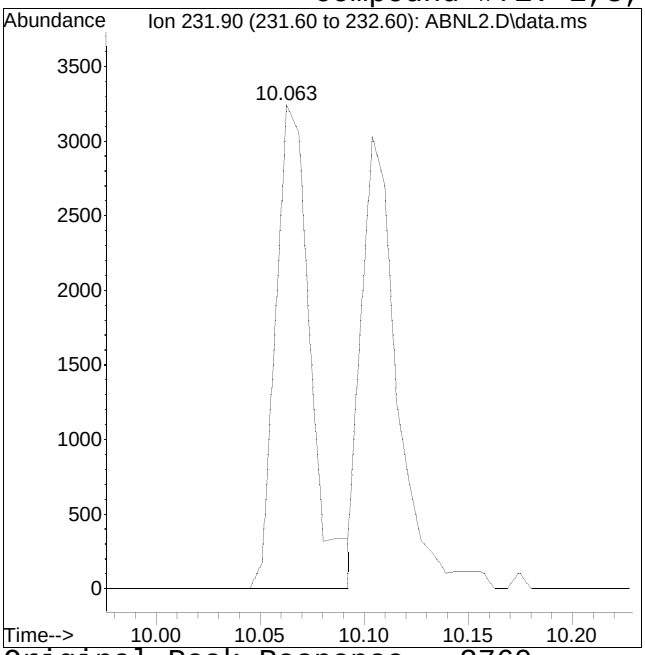
Original Peak Response = 1762 Manual Peak Response = 1885 M3

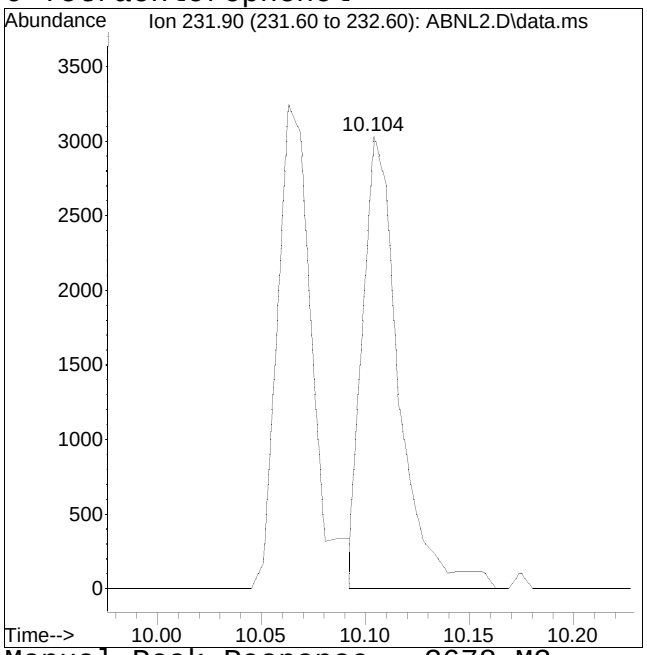
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL2.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 10:52 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 11011Quant Date : 10/11/2024 11:13 am

Compound #71: 2,3,4,6-Tetrachlorophenol



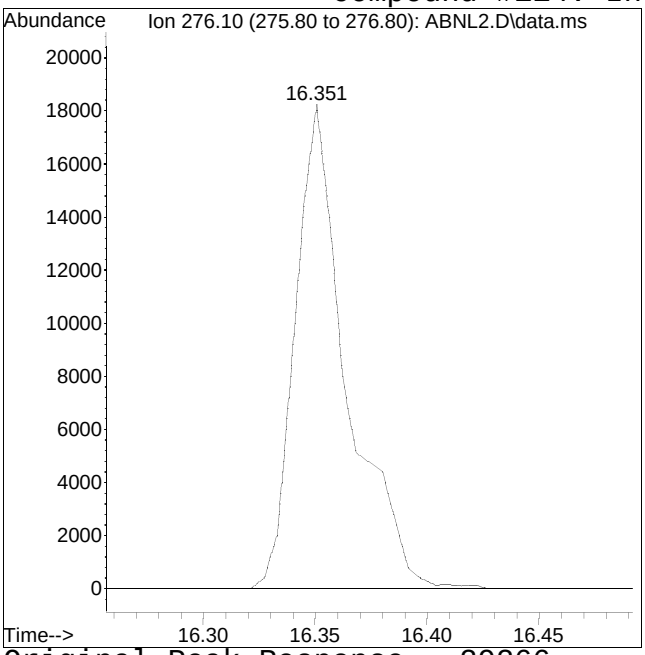


Original Peak Response = 3760 Manual Peak Response = 3678 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

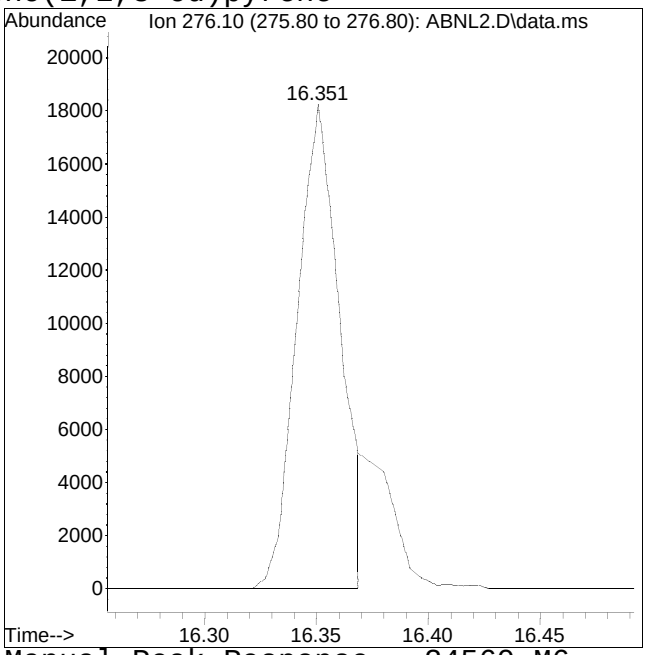
Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL2.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 10:52 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 11011Quant Date : 10/11/2024 11:13 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 29266



Manual Peak Response = 24560 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL1.D
Acq On : 9 Oct 2024 11:16 pm
Operator : SV106:HNY
Sample : IL10,32,,ABNL0.1 Lot# 11012
Misc : WG1984388
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 11 11:23:58 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.598	152	75952	4.000	ug/ml	0.00
Standard Area 1 = 69296			Recovery = 109.61%			
35) IS1_Naphthalene-d8	8.010	136	281373	4.000	ug/ml	0.00
Standard Area 1 = 264583			Recovery = 106.35%			
63) IS1_Acenaphthene-d10	9.769	164	164424	4.000	ug/ml	0.00
Standard Area 1 = 166975			Recovery = 98.47%			
88) IS1_Phenanthrene-d10	11.216	188	313559	4.000	ug/ml	0.00
Standard Area 1 = 326455			Recovery = 96.05%			
104) IS1_Chrysene-d12	13.868	240	306984	4.000	ug/ml	0.00
Standard Area 1 = 353807			Recovery = 86.77%			
113) IS1_Perylene-d12	15.345	264	314348	4.000	ug/ml	0.00
Standard Area 1 = 379737			Recovery = 82.78%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.775	112	2790	0.127	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 6.35%#			
7) Phenol-d6	6.228	99	3209	0.107	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 5.35%#			
19) Nitrobenzene-d5	7.251	82	3159	0.103	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 10.30%#			
46) 2-Fluorobiphenyl	9.127	172	7881	0.109	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 10.90%#			
79) 2,4,6-Tribromophenol	10.545	330	965	0.094	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 4.70%#			
96) 4-Terphenyl-d14	12.804	244	10172	0.121	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 12.10%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.322	74	1508	0.093	ug/ml#	86
3) Pyridine	2.410	79	2390M1	0.090	ug/ml	
5) Aniline	6.204	93	3158	0.081	ug/ml	94
6) 2-Chlorophenol	6.345	128	2710	0.111	ug/ml	94
8) Phenol	6.245	94	3383	0.109	ug/ml	93
9) Bis(2-chloroethyl)ether	6.328	93	2938	0.115	ug/ml	91
10) 1,3-Dichlorobenzene	6.528	146	3437	0.117	ug/ml	96
11) 1,4-Dichlorobenzene	6.622	146	3519M3	0.118	ug/ml	
12) 1,2-Dichlorobenzene	6.798	146	3772	0.130	ug/ml	95

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL1.D
Acq On : 9 Oct 2024 11:16 pm
Operator : SV106:HNY
Sample : IL10,32,,ABNL0.1 Lot# 11012
Misc : WG1984388
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 11 11:23:58 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.804	79	2193	0.091	ug/ml	97
14) Bis(2-chloroisopropyl)...	6.975	45	4720	0.115	ug/ml#	57
15) 2-Methylphenol	6.969	108	2354	0.105	ug/ml	94
16) Hexachloroethane	7.186	117	1349	0.114	ug/ml#	54
17) n-Nitrosodi-n-propylamine	7.128	70	2030	0.101	ug/ml#	59
18) 3-Methylphenol/4-Methy...	7.151	108	2565	0.106	ug/ml#	90
20) Nitrobenzene	7.269	77	3176	0.102	ug/ml#	84
21) Isophorone	7.551	82	5099	0.097	ug/ml#	95
22) 2-Nitrophenol	7.622	139	1377	0.105	ug/ml#	73
23) 2,4-Dimethylphenol	7.716	107	2418	0.098	ug/ml	94
24) Bis(2-chloroethoxy)met...	7.810	93	3636	0.108	ug/ml#	91
25) 2,4-Dichlorophenol	7.881	162	2665	0.114	ug/ml#	90
26) 1,2,4-Trichlorobenzene	7.963	180	3221	0.112	ug/ml	97
36) Naphthalene	8.033	128	9515	0.118	ug/ml	97
37) Benzoic Acid	0.000		0	N.D.		
38) 4-Chloroaniline	8.116	65	863	0.073	ug/ml#	42
39) Hexachlorobutadiene	8.198	225	1791	0.084	ug/ml	90
40) p-Chloro-m-cresol	8.633	107	2117	0.088	ug/ml#	87
41) 2-Methylnaphthalene	8.745	142	6321	0.118	ug/ml	97
42) 1-Methylnaphthalene	8.839	115	2065	0.101	ug/ml	90
43) Hexachlorocyclopentadiene	8.922	237	1870	0.079	ug/ml#	88
44) 2,4,6-Trichlorophenol	9.045	196	2151	0.102	ug/ml	95
45) 2,4,5-Trichlorophenol	9.075	196	2029	0.090	ug/ml	94
47) 2-Chloronaphthalene	9.222	162	6703	0.117	ug/ml	94
48) 2-Nitroaniline	9.333	138	1775	0.103	ug/ml#	72
49) 1,4-Dinitrobenzene	9.469	168	792M3	0.087	ug/ml	
50) 1,3-Dinitrobenzene	9.545	168	926	0.090	ug/ml#	1
51) Dimethyl phthalate	9.539	163	7468	0.107	ug/ml#	96
52) Acenaphthylene	9.627	152	9531	0.109	ug/ml	98
53) 2,6-Dinitrotoluene	9.580	165	1359	0.091	ug/ml#	78
54) 1,2-Dinitrobenzene	9.627	168	619	0.097	ug/ml#	1
64) 3-Nitroaniline	9.739	138	1335	0.102	ug/ml#	94
65) Acenaphthene	9.804	154	6033	0.127	ug/ml	88
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	9.975	168	9801	0.123	ug/ml	97
68) 2,4-Dinitrotoluene	9.975	165	1793	0.092	ug/ml	92
69) 4-Nitrophenol	9.927	65	935	0.070	ug/ml#	69
70) 2,3,5,6-Tetrachlorophenol	10.063	232	1530	0.082	ug/ml	88

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL1.D
Acq On : 9 Oct 2024 11:16 pm
Operator : SV106:HNY
Sample : IL10,32,,ABNL0.1 Lot# 11012
Misc : WG1984388
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 11 11:23:58 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	10.104	232	1666	0.093	ug/ml	99
72)	Diethyl phthalate	10.233	149	7472	0.119	ug/ml	98
73)	Fluorene	10.310	166	7305	0.117	ug/ml	93
74)	4-Chlorophenyl phenyl ...	10.327	204	4068	0.123	ug/ml#	83
75)	4-Nitroaniline	10.333	138	1464	0.107	ug/ml	84
76)	4,6-Dinitro-o-cresol	0.000		0	N.D.		
77)	NDPA/DPA	10.439	169	6176	0.119	ug/ml	95
78)	Azobenzene	10.474	77	5919	0.100	ug/ml#	86
80)	4-Bromophenyl phenyl e...	10.798	248	2400	0.117	ug/ml#	88
81)	Hexachlorobenzene	10.851	284	2952	0.126	ug/ml#	80
82)	Pentachlorophenol	11.045	266	782	0.053	ug/ml#	51
89)	Phenanthrene	11.233	178	11791	0.135	ug/ml	97
90)	Anthracene	11.286	178	11708	0.134	ug/ml	98
91)	Carbazole	11.451	167	10169	0.127	ug/ml	96
92)	Di-n-butylphthalate	11.839	149	11445	0.122	ug/ml	100
93)	Fluoranthene	12.398	202	12644	0.118	ug/ml#	91
94)	Benzidine	12.545	184	2713	0.047	ug/ml#	68
95)	Pyrene	12.616	202	13268	0.118	ug/ml	97
97)	Butyl benzyl phthalate	13.327	149	4342	0.101	ug/ml	88
105)	Benzo(a)anthracene	13.863	228	13554	0.119	ug/ml	98
106)	3,3'-Dichlorobenzidine	13.857	252	3549	0.095	ug/ml#	93
107)	Chrysene	13.898	228	13157	0.120	ug/ml	99
108)	Bis(2-ethylhexyl)phtha...	13.968	149	6371	0.102	ug/ml#	97
109)	Di-n-octylphthalate	14.651	149	9668	0.093	ug/ml#	81
110)	Benzo(b)fluoranthene	14.974	252	11383M3	0.104	ug/ml	
111)	Benzo(k)fluoranthene	15.004	252	10975	0.105	ug/ml	98
112)	Benzo(a)pyrene	15.292	252	9484	0.100	ug/ml	97
114)	Indeno(1,2,3-cd)pyrene	16.351	276	10975M6	0.129	ug/mL	
115)	Dibenzo(a,h)anthracene	16.374	278	10292	0.126	ug/ml	95
116)	Benzo(ghi)perylene	16.615	276	10063	0.133	ug/ml#	90

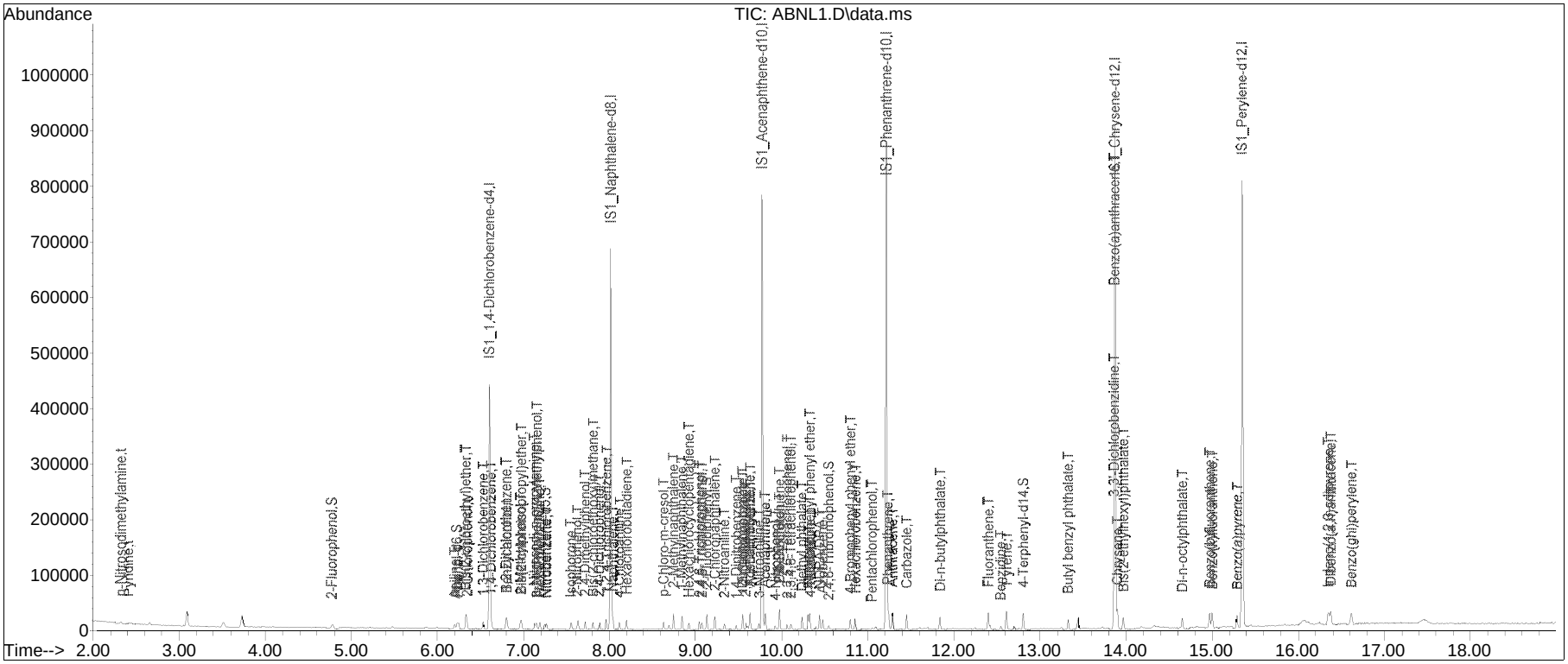
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL1.D
Acq On : 9 Oct 2024 11:16 pm
Operator : SV106:HNY
Sample : IL10,32,,ABNL0.1 Lot# 11012
Misc : WG1984388
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 11 11:23:58 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

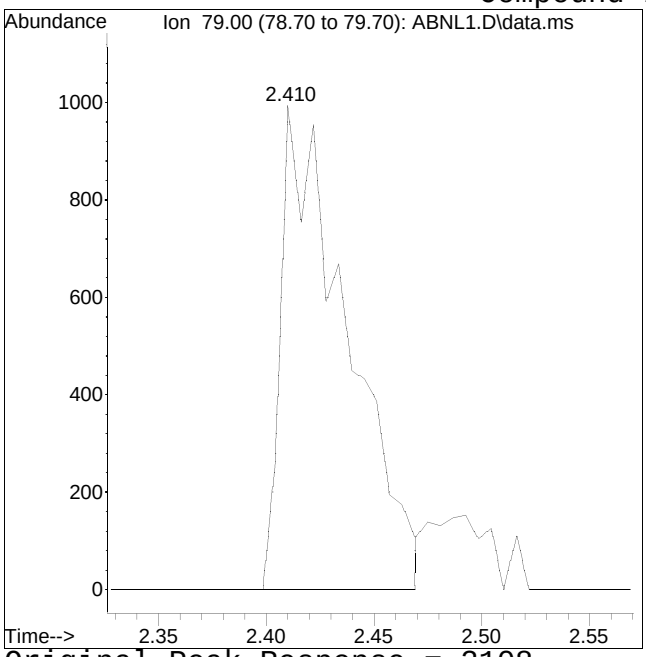
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•

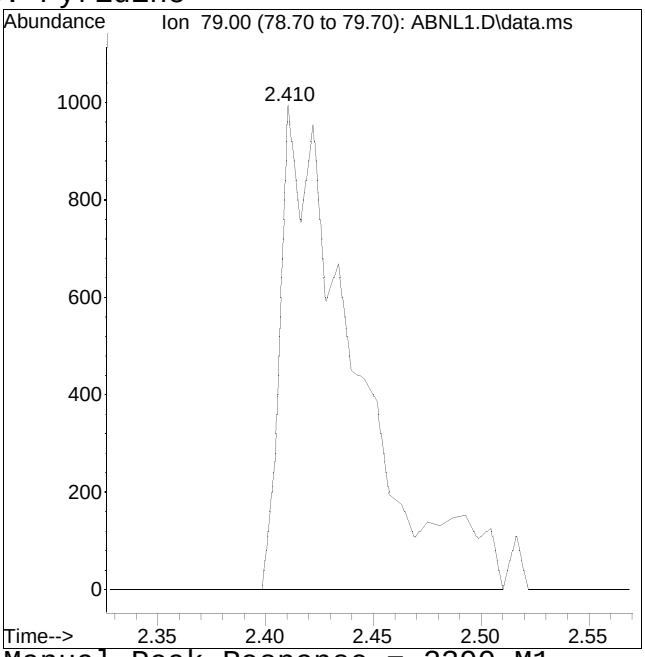


Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL1.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 11:16 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1101Quant Date : 10/11/2024 11:12 am

Compound #3: Pyridine



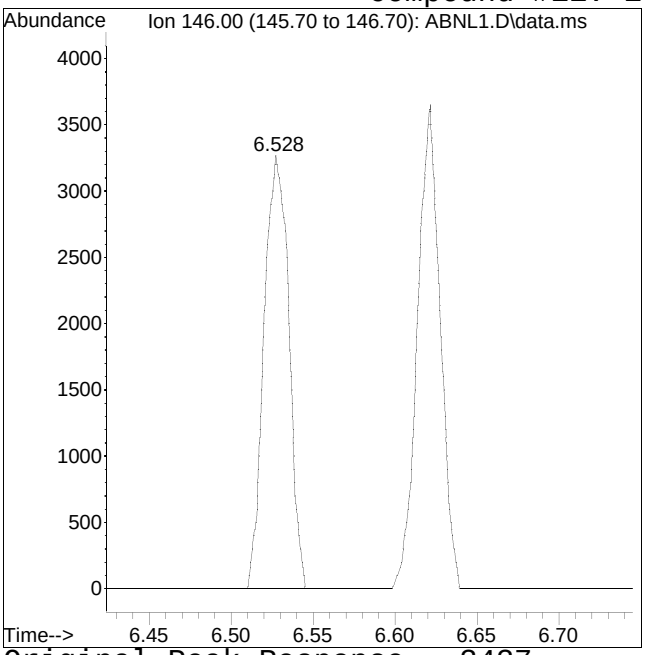


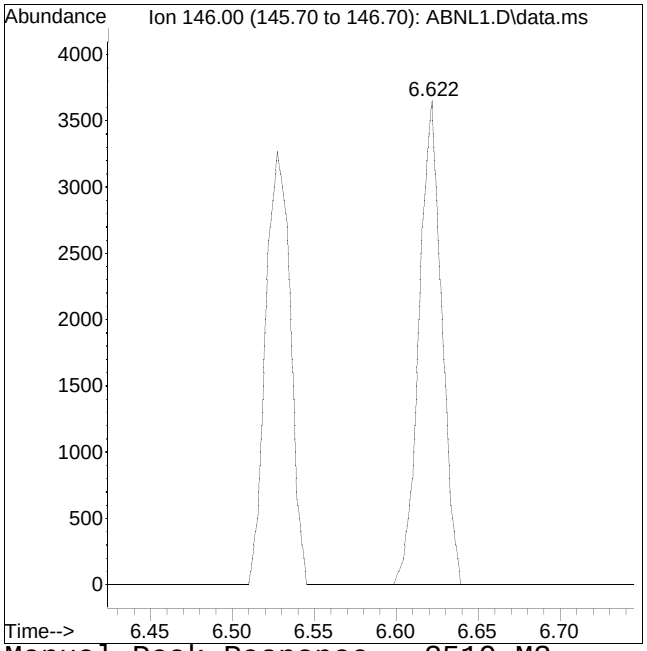
Original Peak Response = 2108 Manual Peak Response = 2390 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL1.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 11:16 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1101Quant Date : 10/11/2024 11:12 am

Compound #11: 1,4-Dichlorobenzene





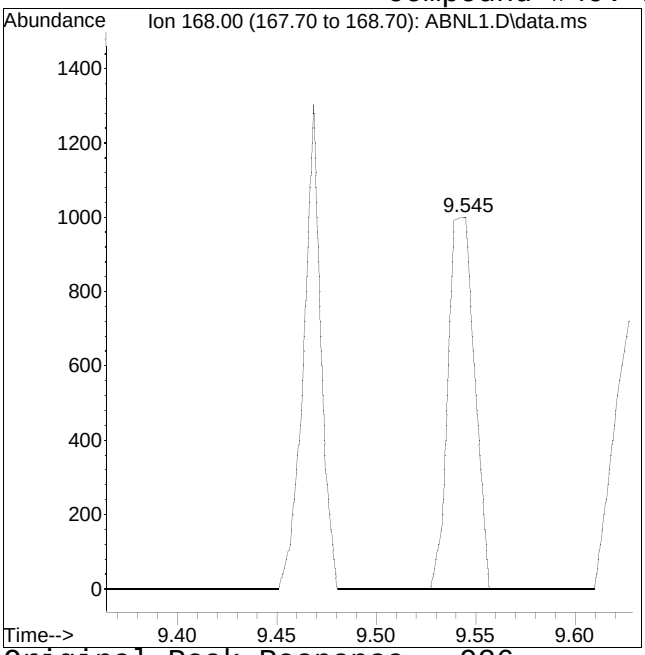
Original Peak Response = 3437 Manual Peak Response = 3519 M3

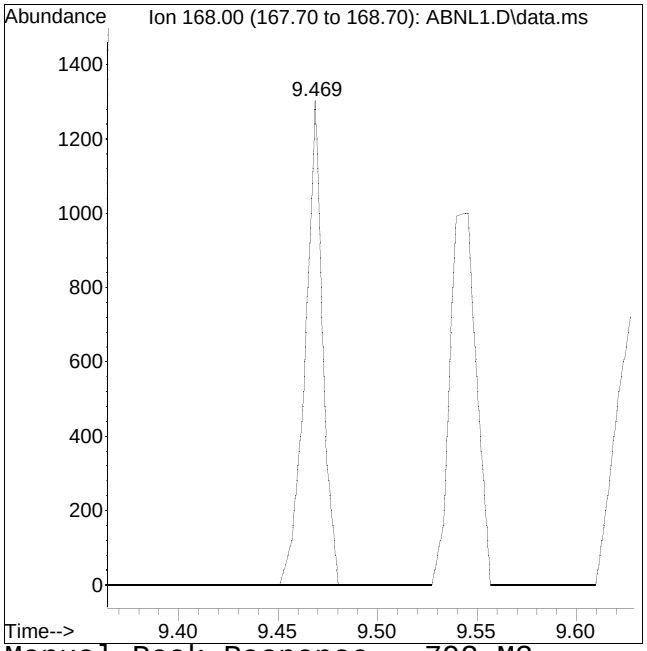
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL1.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 11:16 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1101Quant Date : 10/11/2024 11:12 am

Compound #49: 1,4-Dinitrobenzene





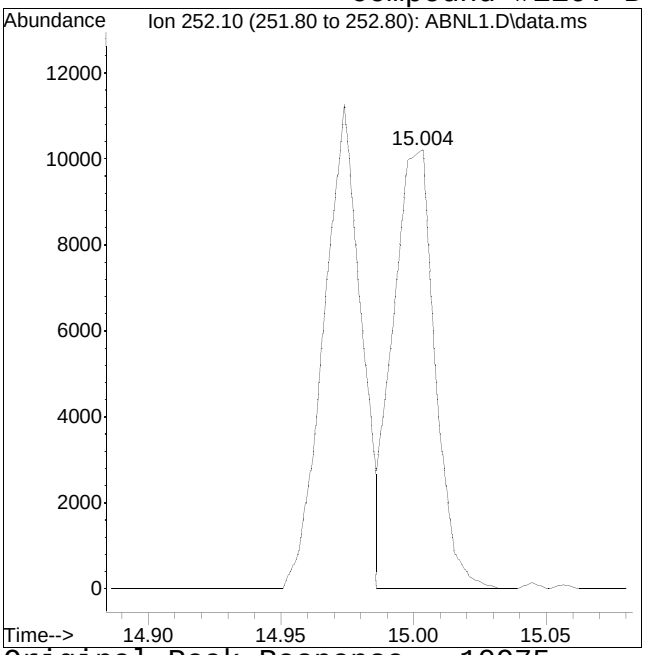
Original Peak Response = 926 Manual Peak Response = 792 M3

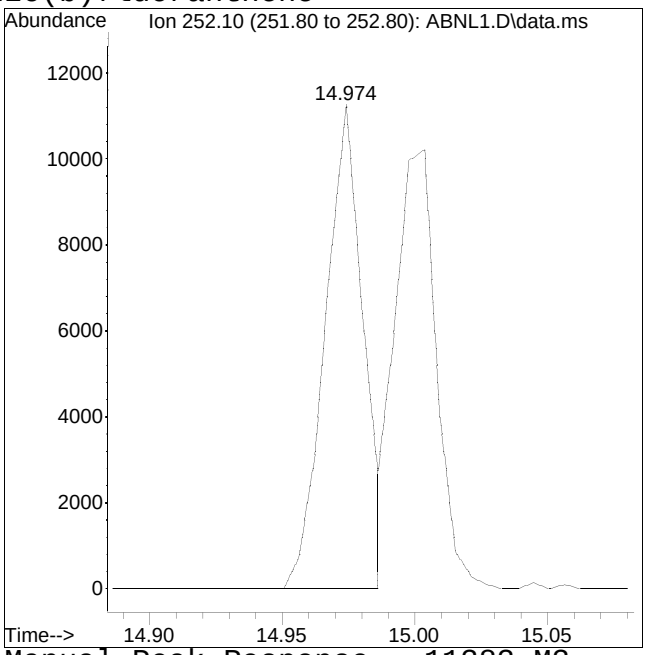
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL1.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 11:16 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1101Quant Date : 10/11/2024 11:12 am

Compound #110: Benzo(b)fluoranthene



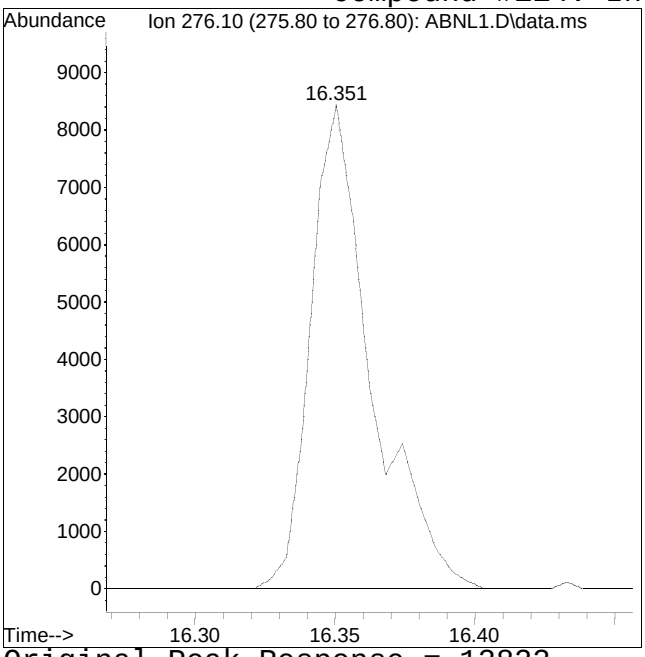


Original Peak Response = 10975 Manual Peak Response = 11383 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

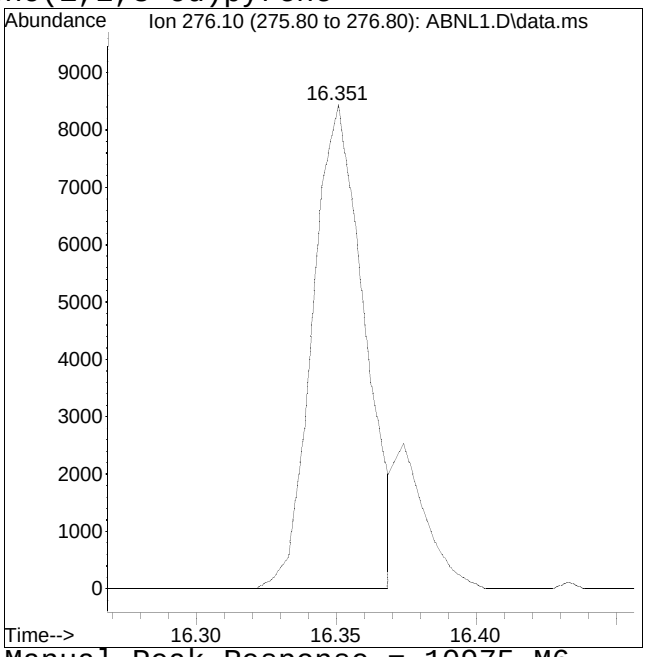
Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL1.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 11:16 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1101Quant Date : 10/11/2024 11:12 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 12822



Manual Peak Response = 10975 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L9.D
Acq On : 9 Oct 2024 11:40 pm
Operator : SV106:HNY
Sample : IL2,32,,AP9L50 Lot# 11013
Misc : WG1984388
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 11 11:58:21 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.598	152	63962	4.000	ug/ml	0.00
Standard Area 3 = 68577			Recovery = 93.27%			
55) IS2_Naphthalene-d8	8.010	136	239150	4.000	ug/ml	# 0.00
Standard Area 3 = 261108			Recovery = 91.59%			
83) IS2_Acenaphthene-d10	9.769	164	144800	4.000	ug/ml	0.00
Standard Area 3 = 153971			Recovery = 94.04%			
98) IS2_Phenanthrene-d10	11.216	188	289187	4.000	ug/ml	0.00
Standard Area 3 = 324206			Recovery = 89.20%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	6.040	105	886267	46.676	ug/ml	94
29) Acetophenone	7.087	105	1671775	48.441	ug/ml#	80
30) m-Toluidine	7.186	106	1528652	48.851	ug/ml	95
31) 2-Chloroaniline	7.586	127	1498557	54.827	ug/ml#	91
56) a-Terpineol	8.086	59	1005471	42.030	ug/ml#	82
57) 3-Chloroaniline	8.098	65	455412	37.962	ug/ml	95
58) 2,6-Dichlorophenol	8.128	162	1078810	49.893	ug/ml#	85
59) 1-chloro-2-nitrobenzene	8.386	111	505579	46.925	ug/ml#	1
60) Caprolactam	8.451	55	532204	42.387	ug/ml#	69
61) 1,2,4,5-Tetrachloroben...	8.922	216	1338936	40.831	ug/ml	98
62) Biphenyl	9.222	154	3084011	47.577	ug/ml	99
84) Dichloran	10.910	206	409469	45.771	ug/ml#	67
85) Pentachloronitrobenzene	11.063	237	409184	41.849	ug/ml#	80
99) Diphenamid	12.127	167	2192949	54.041	ug/ml#	78

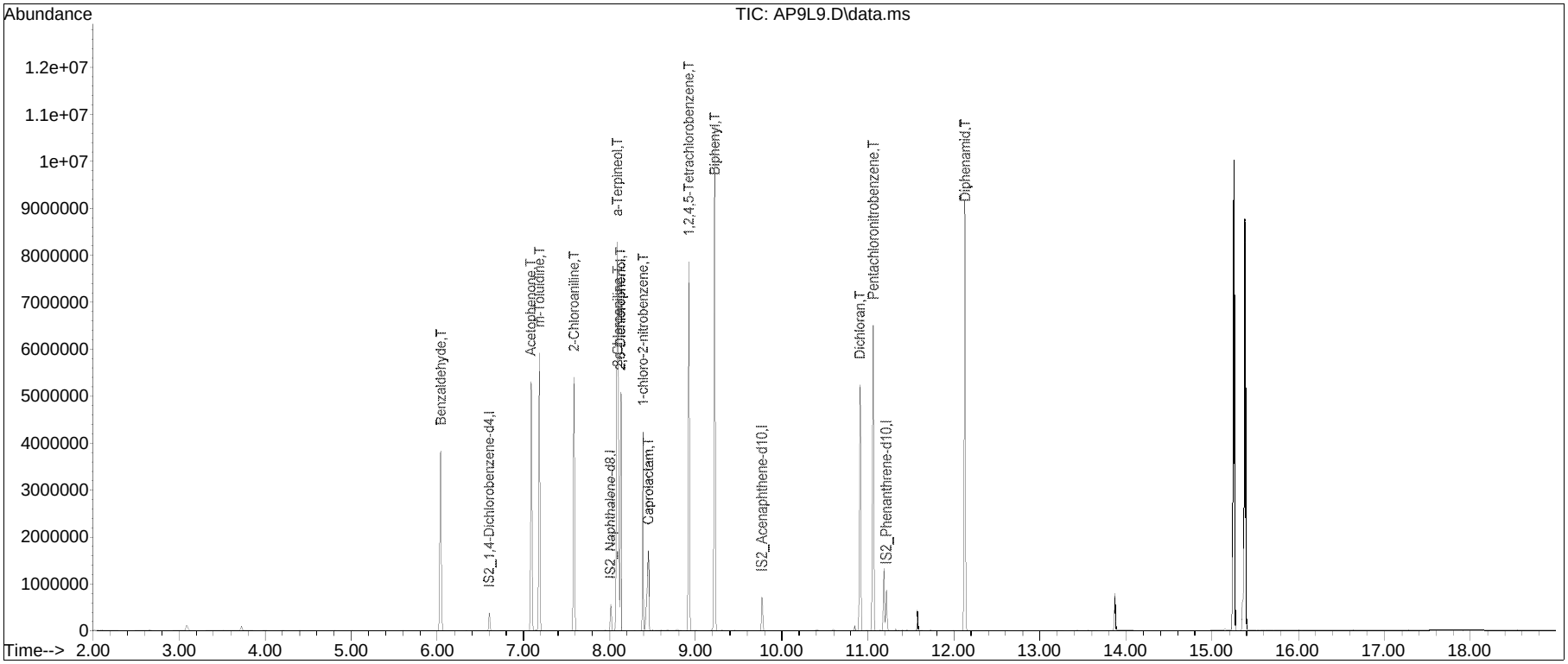
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L9.D
Acq On : 9 Oct 2024 11:40 pm
Operator : SV106:HNY
Sample : IL2,32,,AP9L50 Lot# 11013
Misc : WG1984388
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 11 11:58:21 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: AP9L9.D	Operator	: SV106:HNY
Date Inj'd	: 10/9/2024 11:40 pm	Instrument	: SV 106
Sample	: IL2,32,,AP9L50 Lot# 11013	Quant Date	: 10/11/2024 11:16 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L8.D
Acq On : 10 Oct 2024 12:03 am
Operator : SV106:HNY
Sample : IL3,32,,AP9L25 Lot# 11014
Misc : WG1984388
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 11 11:57:24 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.598	152	76119	4.000	ug/ml	0.00
Standard Area 3 = 68577			Recovery = 111.00%			
55) IS2_Naphthalene-d8	8.010	136	286112	4.000	ug/ml	# 0.00
Standard Area 3 = 261108			Recovery = 109.58%			
83) IS2_Acenaphthene-d10	9.769	164	165535	4.000	ug/ml	0.00
Standard Area 3 = 153971			Recovery = 107.51%			
98) IS2_Phenanthrene-d10	11.216	188	330138	4.000	ug/ml	0.00
Standard Area 3 = 324206			Recovery = 101.83%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	6.034	105	459607	20.340	ug/ml	94
29) Acetophenone	7.086	105	868815	21.154	ug/ml#	81
30) m-Toluidine	7.186	106	800501	21.496	ug/ml	95
31) 2-Chloroaniline	7.586	127	785161	24.138	ug/ml#	92
56) a-Terpineol	8.081	59	523174	18.280	ug/ml#	82
57) 3-Chloroaniline	8.092	65	244798	17.056	ug/ml	96
58) 2,6-Dichlorophenol	8.122	162	563519	21.784	ug/ml#	86
59) 1-chloro-2-nitrobenzene	8.386	111	266535	20.678	ug/ml#	1
60) Caprolactam	8.439	55	289640	19.282	ug/ml#	68
61) 1,2,4,5-Tetrachloroben...	8.922	216	707308	18.029	ug/ml	98
62) Biphenyl	9.222	154	1633700	21.066	ug/ml	99
84) Dichloran	10.910	206	219136	21.427	ug/ml#	66
85) Pentachloronitrobenzene	11.063	237	216870	19.402	ug/ml#	80
99) Diphenamid	12.121	167	1174053	25.343	ug/ml#	78

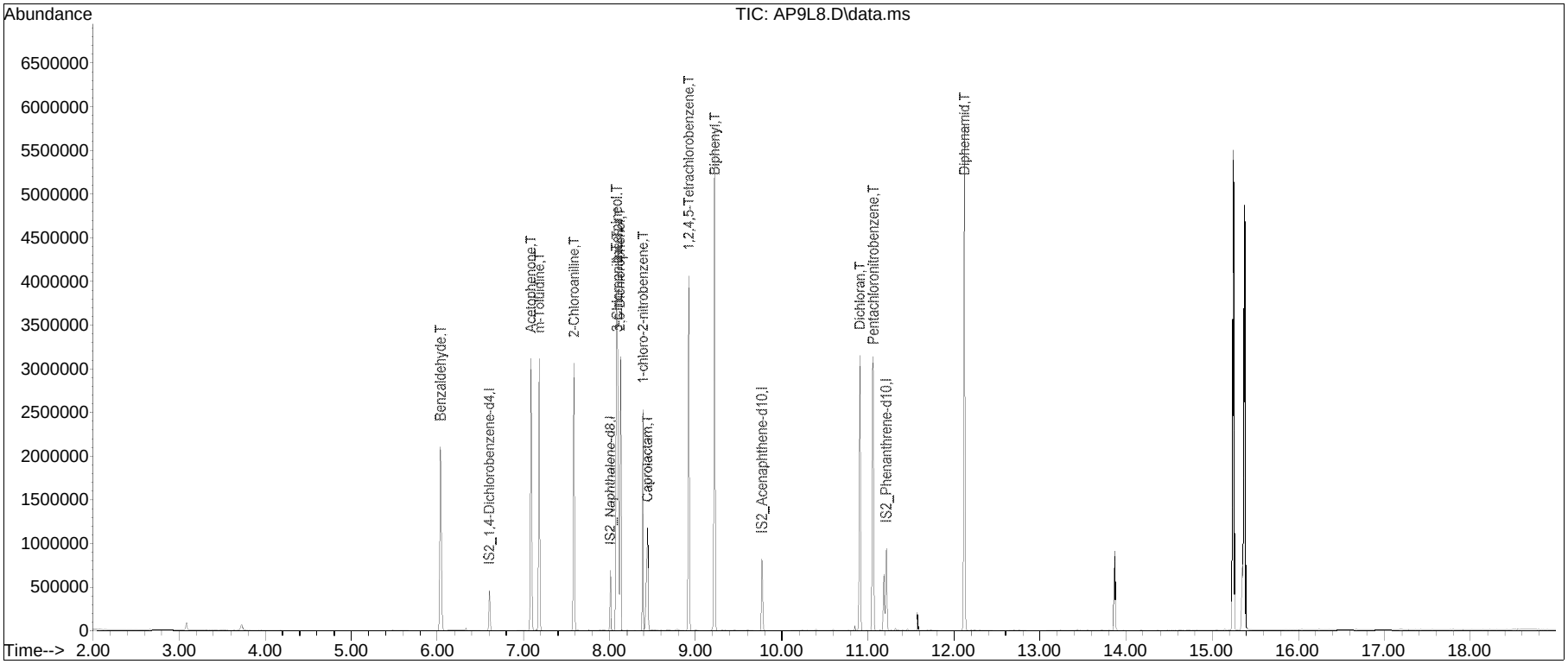
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L8.D
Acq On : 10 Oct 2024 12:03 am
Operator : SV106:HNY
Sample : IL3,32,,AP9L25 Lot# 11014
Misc : WG1984388
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 11 11:57:24 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: AP9L8.D	Operator	: SV106:HNY
Date Inj'd	: 10/10/2024 12:03 am	Instrument	: SV 106
Sample	: IL3,32,,AP9L25 Lot# 11014	Quant Date	: 10/11/2024 11:16 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L7.D
Acq On : 10 Oct 2024 12:27 am
Operator : SV106:HNY
Sample : IL4,32,,AP9L10 Lot# 11015
Misc : WG1984388
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 11 11:56:42 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.598	152	70510	4.000	ug/ml		0.00
Standard Area 3 = 68577			Recovery =	102.82%			
55) IS2_Naphthalene-d8	8.010	136	258176	4.000	ug/ml	#	0.00
Standard Area 3 = 261108			Recovery =	98.88%			
83) IS2_Acenaphthene-d10	9.769	164	146958	4.000	ug/ml		0.00
Standard Area 3 = 153971			Recovery =	95.45%			
98) IS2_Phenanthrene-d10	11.216	188	299480	4.000	ug/ml		0.00
Standard Area 3 = 324206			Recovery =	92.37%			
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	6.039	105	173013	8.266	ug/ml		94
29) Acetophenone	7.086	105	316976	8.332	ug/ml	#	81
30) m-Toluidine	7.186	106	296462	8.594	ug/ml		94
31) 2-Chloroaniline	7.586	127	290628	9.646	ug/ml	#	91
56) a-Terpineol	8.080	59	189275	7.329	ug/ml	#	81
57) 3-Chloroaniline	8.092	65	92888	7.172	ug/ml		99
58) 2,6-Dichlorophenol	8.122	162	206231	8.835	ug/ml	#	85
59) 1-chloro-2-nitrobenzene	8.386	111	97478	8.381	ug/ml	#	1
60) Caprolactam	8.427	55	100892	7.443	ug/ml	#	71
61) 1,2,4,5-Tetrachloroben...	8.922	216	261881	7.398	ug/ml		97
62) Biphenyl	9.222	154	590014	8.431	ug/ml		99
84) Dichloran	10.904	206	69992	7.709	ug/ml	#	66
85) Pentachloronitrobenzene	11.057	237	73196	7.376	ug/ml	#	80
99) Diphenamid	12.121	167	389973	9.280	ug/ml	#	78

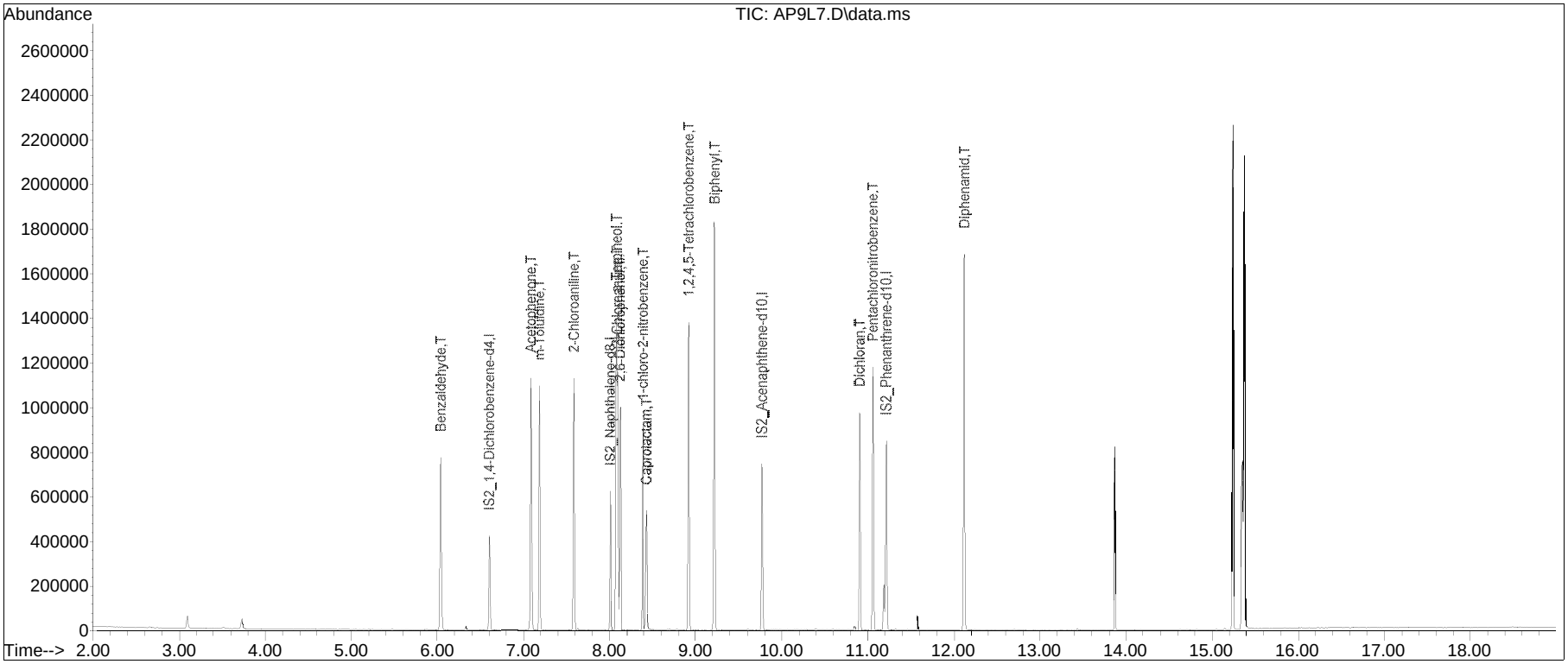
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L7.D
Acq On : 10 Oct 2024 12:27 am
Operator : SV106:HNY
Sample : IL4,32,,AP9L10 Lot# 11015
Misc : WG1984388
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 11 11:56:42 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: AP9L7.D	Operator	: SV106:HNY
Date Inj'd	: 10/10/2024 12:27 am	Instrument	: SV 106
Sample	: IL4,32,,AP9L10 Lot# 11015	Quant Date	: 10/11/2024 11:16 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L6.D
Acq On : 10 Oct 2024 12:51 am
Operator : SV106:HNY
Sample : IL5,32,,AP9L5 Lot# 11016
Misc : WG1984388
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 11 11:56:07 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.598	152	68577	4.000	ug/ml	0.00
Standard Area 3 = 68577			Recovery =	100.00%		
55) IS2_Naphthalene-d8	8.010	136	261108	4.000	ug/ml	0.00
Standard Area 3 = 261108			Recovery =	100.00%		
83) IS2_Acenaphthene-d10	9.769	164	153971	4.000	ug/ml	0.00
Standard Area 3 = 153971			Recovery =	100.00%		
98) IS2_Phenanthrene-d10	11.216	188	324206	4.000	ug/ml	0.00
Standard Area 3 = 324206			Recovery =	100.00%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	6.040	105	83596	4.106	ug/ml	93
29) Acetophenone	7.087	105	155076	4.191	ug/ml#	81
30) m-Toluidine	7.187	106	139582	4.160	ug/ml	96
31) 2-Chloroaniline	7.587	127	141633	4.833	ug/ml#	92
56) a-Terpineol	8.075	59	91500	3.503	ug/ml#	79
57) 3-Chloroaniline	8.092	65	45585	3.480	ug/ml	99
58) 2,6-Dichlorophenol	8.122	162	101256	4.289	ug/ml#	85
59) 1-chloro-2-nitrobenzene	8.387	111	47719	4.057	ug/ml#	1
60) Caprolactam	8.422	55	49272	3.594	ug/ml#	68
61) 1,2,4,5-Tetrachloroben...	8.922	216	129995	3.631	ug/ml	98
62) Biphenyl	9.222	154	301797	4.264	ug/ml	100
84) Dichloran	10.904	206	34290	3.605	ug/ml#	69
85) Pentachloronitrobenzene	11.057	237	38263	3.680	ug/ml#	81
99) Diphenamid	12.116	167	214966	4.725	ug/ml#	78

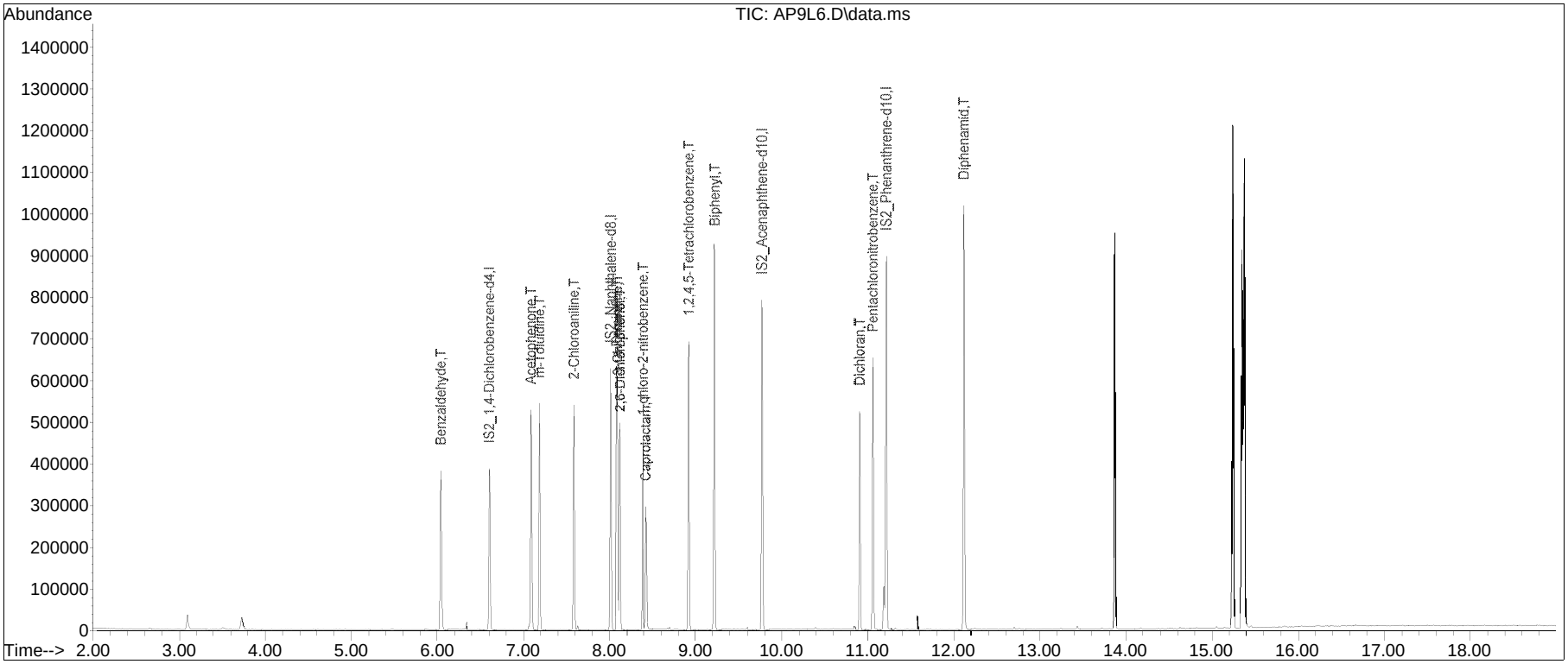
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L6.D
Acq On : 10 Oct 2024 12:51 am
Operator : SV106:HNY
Sample : IL5,32,,AP9L5 Lot# 11016
Misc : WG1984388
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 11 11:56:07 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: AP9L6.D	Operator	: SV106:HNY
Date Inj'd	: 10/10/2024 12:51 am	Instrument	: SV 106
Sample	: IL5,32,,AP9L5 Lot# 11016	Quant Date	: 10/11/2024 11:16 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L5.D
Acq On : 10 Oct 2024 1:15 am
Operator : SV106:HNY
Sample : IL6,32,,AP9L2.5 Lot# 11017
Misc : WG1984388
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 11 11:55:34 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.604	152	62773	4.000	ug/ml	0.00
Standard Area 3 = 68577			Recovery = 91.54%			
55) IS2_Naphthalene-d8	8.010	136	241460	4.000	ug/ml	# 0.00
Standard Area 3 = 261108			Recovery = 92.48%			
83) IS2_Acenaphthene-d10	9.769	164	153739	4.000	ug/ml	0.00
Standard Area 3 = 153971			Recovery = 99.85%			
98) IS2_Phenanthrene-d10	11.216	188	326212	4.000	ug/ml	0.00
Standard Area 3 = 324206			Recovery = 100.62%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	6.040	105	39695	2.130	ug/ml	93
29) Acetophenone	7.092	105	73641	2.174	ug/ml#	81
30) m-Toluidine	7.187	106	64099	2.087	ug/ml	97
31) 2-Chloroaniline	7.586	127	66454	2.477	ug/ml#	91
56) a-Terpineol	8.075	59	43736	1.811	ug/ml#	83
57) 3-Chloroaniline	8.092	65	20806	1.718	ug/ml	96
58) 2,6-Dichlorophenol	8.116	162	46348	2.123	ug/ml#	86
59) 1-chloro-2-nitrobenzene	8.386	111	22713	2.088	ug/ml#	1
60) Caprolactam	8.422	55	22322	1.761	ug/ml#	70
61) 1,2,4,5-Tetrachloroben...	8.922	216	61732	1.865	ug/ml	98
62) Biphenyl	9.222	154	143630	2.195	ug/ml	100
84) Dichloran	10.904	206	16013	1.686	ug/ml#	68
85) Pentachloronitrobenzene	11.057	237	17687	1.704	ug/ml#	81
99) Diphenamid	12.116	167	98097	2.143	ug/ml#	79

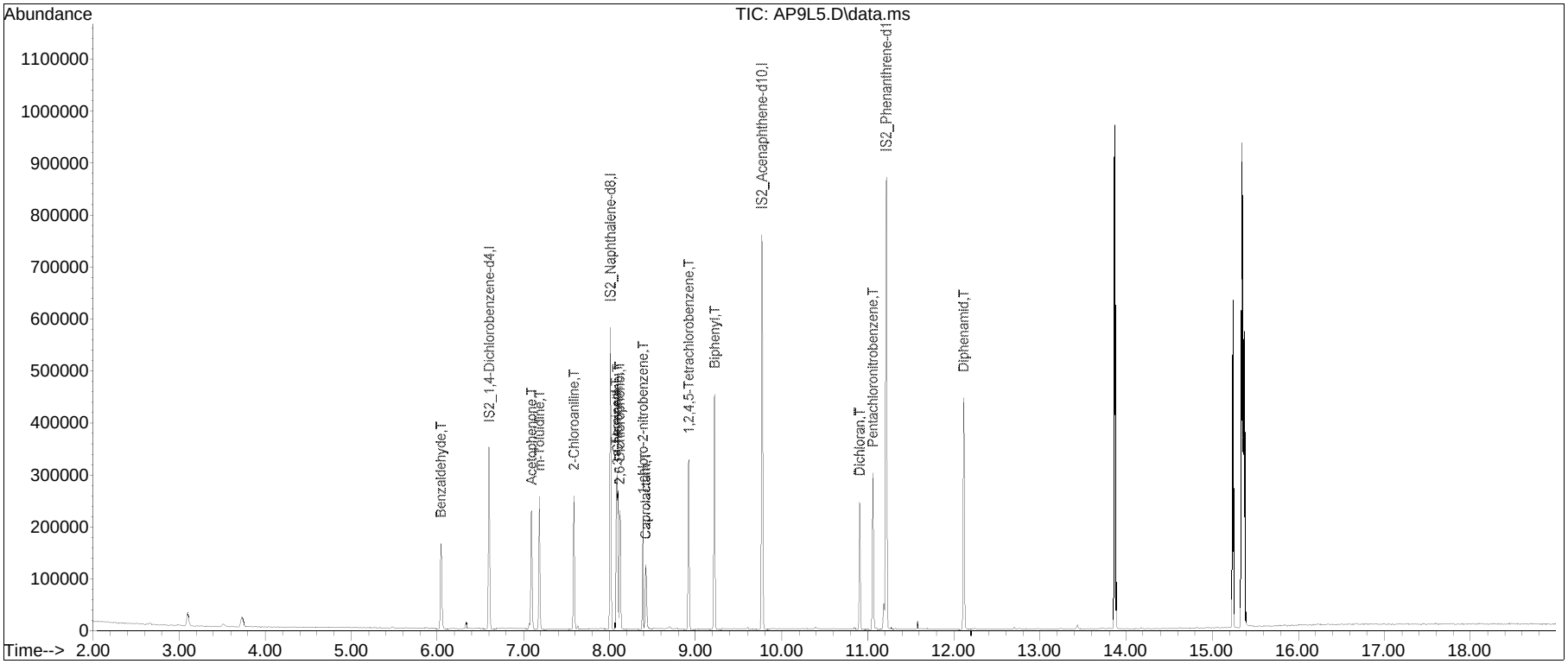
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L5.D
Acq On : 10 Oct 2024 1:15 am
Operator : SV106:HNY
Sample : IL6,32,,AP9L2.5 Lot# 11017
Misc : WG1984388
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 11 11:55:34 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: AP9L5.D	Operator	: SV106:HNY
Date Inj'd	: 10/10/2024 1:15 am	Instrument	: SV 106
Sample	: IL6,32,,AP9L2.5 Lot# 11017	Quant Date	: 10/11/2024 11:15 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L4.D
Acq On : 10 Oct 2024 1:38 am
Operator : SV106:HNY
Sample : IL7,32,,AP9L1 Lot# 11018
Misc : WG1984388
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 11 11:55:03 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.598	152	71821	4.000	ug/ml	0.00
Standard Area 3 = 68577			Recovery =	104.73%		
55) IS2_Naphthalene-d8	8.010	136	270768	4.000	ug/ml	# 0.00
Standard Area 3 = 261108			Recovery =	103.70%		
83) IS2_Acenaphthene-d10	9.769	164	156722	4.000	ug/ml	0.00
Standard Area 3 = 153971			Recovery =	101.79%		
98) IS2_Phenanthrene-d10	11.216	188	329147	4.000	ug/ml	0.00
Standard Area 3 = 324206			Recovery =	101.52%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	6.045	105	15605	0.732	ug/ml	97
29) Acetophenone	7.092	105	28880	0.745	ug/ml#	81
30) m-Toluidine	7.186	106	24264	0.691	ug/ml	94
31) 2-Chloroaniline	7.586	127	26285	0.856	ug/ml#	90
56) a-Terpineol	8.080	59	15944	0.589	ug/ml#	74
57) 3-Chloroaniline	8.092	65	8091	0.596	ug/ml	97
58) 2,6-Dichlorophenol	8.116	162	17713	0.724	ug/ml#	83
59) 1-chloro-2-nitrobenzene	8.386	111	8568	0.702	ug/ml#	1
60) Caprolactam	8.422	55	8406	0.591	ug/ml#	78
61) 1,2,4,5-Tetrachloroben...	8.922	216	24850	0.669	ug/ml	96
62) Biphenyl	9.222	154	56095	0.764	ug/ml	99
84) Dichloran	10.904	206	5312	0.549	ug/ml#	73
85) Pentachloronitrobenzene	11.057	237	6373	0.602	ug/ml#	80
99) Diphenamid	12.115	167	37161	0.805	ug/ml#	78

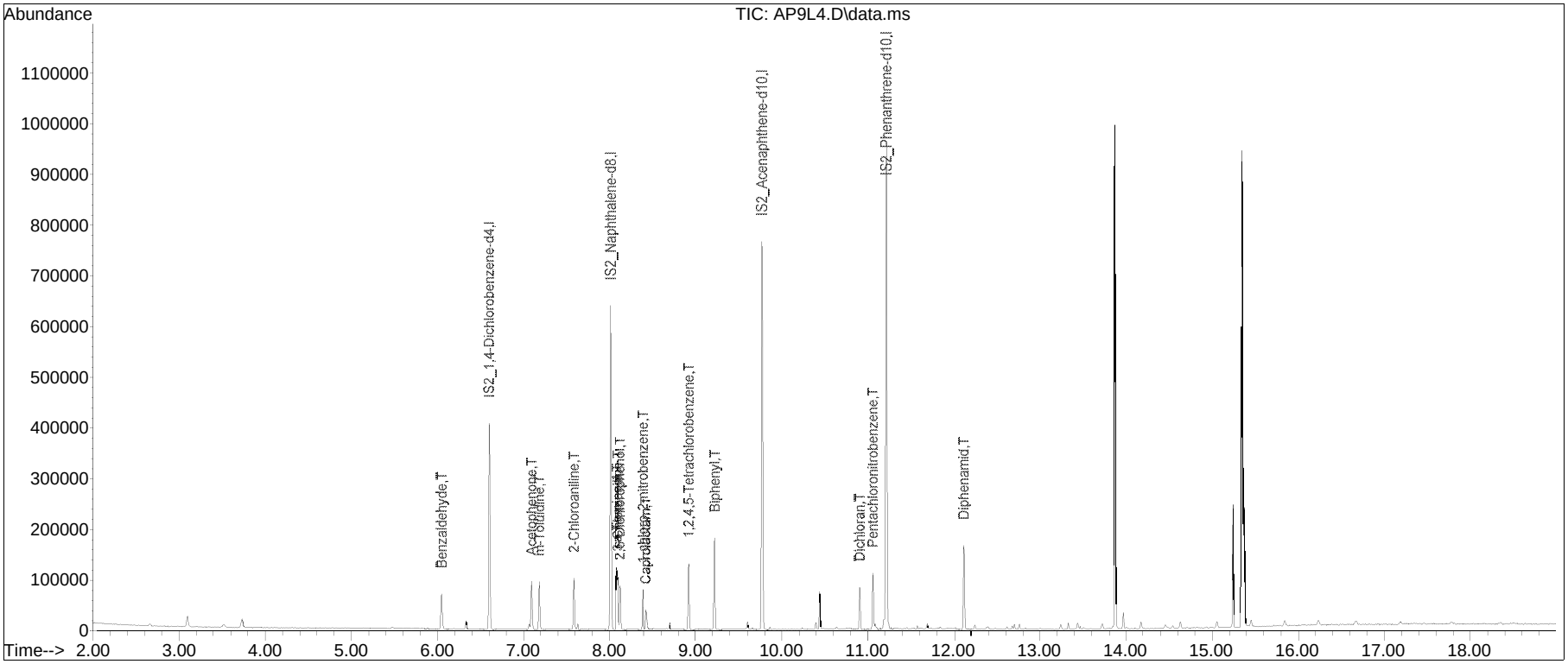
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L4.D
Acq On : 10 Oct 2024 1:38 am
Operator : SV106:HNY
Sample : IL7,32,,AP9L1 Lot# 11018
Misc : WG1984388
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 11 11:55:03 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: AP9L4.D	Operator	: SV106:HNY
Date Inj'd	: 10/10/2024 1:38 am	Instrument	: SV 106
Sample	: IL7,32,,AP9L1 Lot# 11018	Quant Date	: 10/11/2024 11:15 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L3.D
Acq On : 10 Oct 2024 2:02 am
Operator : SV106:HNY
Sample : IL8,32,,AP9L0.5 Lot# 11019
Misc : WG1984388
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 11 11:54:32 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.604	152	68000	4.000	ug/ml	0.00
Standard Area 3 = 68577			Recovery = 99.16%			
55) IS2_Naphthalene-d8	8.010	136	250467	4.000	ug/ml	# 0.00
Standard Area 3 = 261108			Recovery = 95.92%			
83) IS2_Acenaphthene-d10	9.769	164	148065	4.000	ug/ml	0.00
Standard Area 3 = 153971			Recovery = 96.16%			
98) IS2_Phenanthrene-d10	11.216	188	314272	4.000	ug/ml	0.00
Standard Area 3 = 324206			Recovery = 96.94%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	6.045	105	8456	0.419	ug/ml	96
29) Acetophenone	7.092	105	16443	0.448	ug/ml#	85
30) m-Toluidine	7.187	106	11868	0.357	ug/ml	92
31) 2-Chloroaniline	7.587	127	13791	0.475	ug/ml#	90
56) a-Terpineol	8.081	59	8414	0.336	ug/ml#	67
57) 3-Chloroaniline	8.092	65	4590	0.365	ug/ml	91
58) 2,6-Dichlorophenol	8.122	162	9353	0.413	ug/ml#	83
59) 1-chloro-2-nitrobenzene	8.386	111	4720	0.418	ug/ml#	1
60) Caprolactam	8.422	55	4161	0.316	ug/ml#	66
61) 1,2,4,5-Tetrachloroben...	8.922	216	13865	0.404	ug/ml	94
62) Biphenyl	9.222	154	29826	0.439	ug/ml	97
84) Dichloran	10.904	206	2936	0.321	ug/ml#	66
85) Pentachloronitrobenzene	11.057	237	3571	0.357	ug/ml#	78
99) Diphenamid	12.116	167	18211	0.413	ug/ml#	80

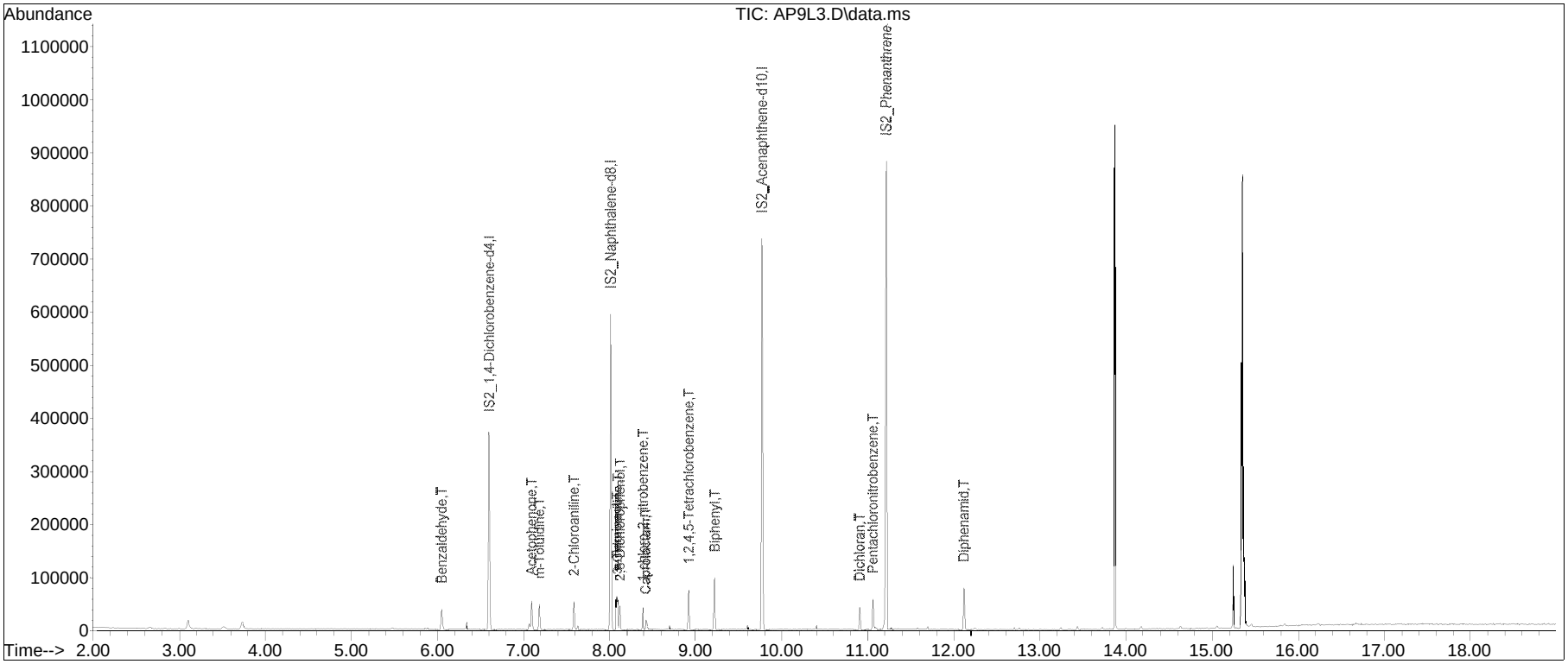
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L3.D
Acq On : 10 Oct 2024 2:02 am
Operator : SV106:HNY
Sample : IL8,32,,AP9L0.5 Lot# 11019
Misc : WG1984388
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 11 11:54:32 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: AP9L3.D	Operator	: SV106:HNY
Date Inj'd	: 10/10/2024 2:02 am	Instrument	: SV 106
Sample	: IL8,32,,AP9L0.5 Lot# 11019	Quant Date	: 10/11/2024 11:15 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L2.D
Acq On : 10 Oct 2024 2:25 am
Operator : SV106:HNY
Sample : IL9,32,,AP9L0.2 Lot# 11020
Misc : WG1984388
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 11 11:54:00 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.598	152	67059	4.000	ug/ml	0.00
Standard Area 3 = 68577			Recovery = 97.79%			
55) IS2_Naphthalene-d8	8.010	136	247872	4.000	ug/ml	# 0.00
Standard Area 3 = 261108			Recovery = 94.93%			
83) IS2_Acenaphthene-d10	9.769	164	150701	4.000	ug/ml	0.00
Standard Area 3 = 153971			Recovery = 97.88%			
98) IS2_Phenanthrene-d10	11.216	188	312804	4.000	ug/ml	0.00
Standard Area 3 = 324206			Recovery = 96.48%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	6.045	105	2842	0.143	ug/ml	100
29) Acetophenone	7.093	105	5987	0.165	ug/ml#	91
30) m-Toluidine	7.187	106	2431	0.074	ug/ml#	94
31) 2-Chloroaniline	7.587	127	5084	0.177	ug/ml#	90
56) a-Terpineol	8.081	59	3312	0.134	ug/ml#	86
57) 3-Chloroaniline	8.092	65	1322	0.106	ug/ml	83
58) 2,6-Dichlorophenol	8.122	162	3498	0.156	ug/ml#	82
59) 1-chloro-2-nitrobenzene	8.387	111	1705	0.153	ug/ml#	1
60) Caprolactam	8.434	55	1502M1	0.115	ug/ml	
61) 1,2,4,5-Tetrachloroben...	8.922	216	4806	0.141	ug/ml	95
62) Biphenyl	9.222	154	10475	0.156	ug/ml	93
84) Dichloran	10.904	206	961	0.103	ug/ml#	81
85) Pentachloronitrobenzene	11.057	237	1221	0.120	ug/ml#	83
99) Diphenamid	12.116	167	7187	0.164	ug/ml#	73

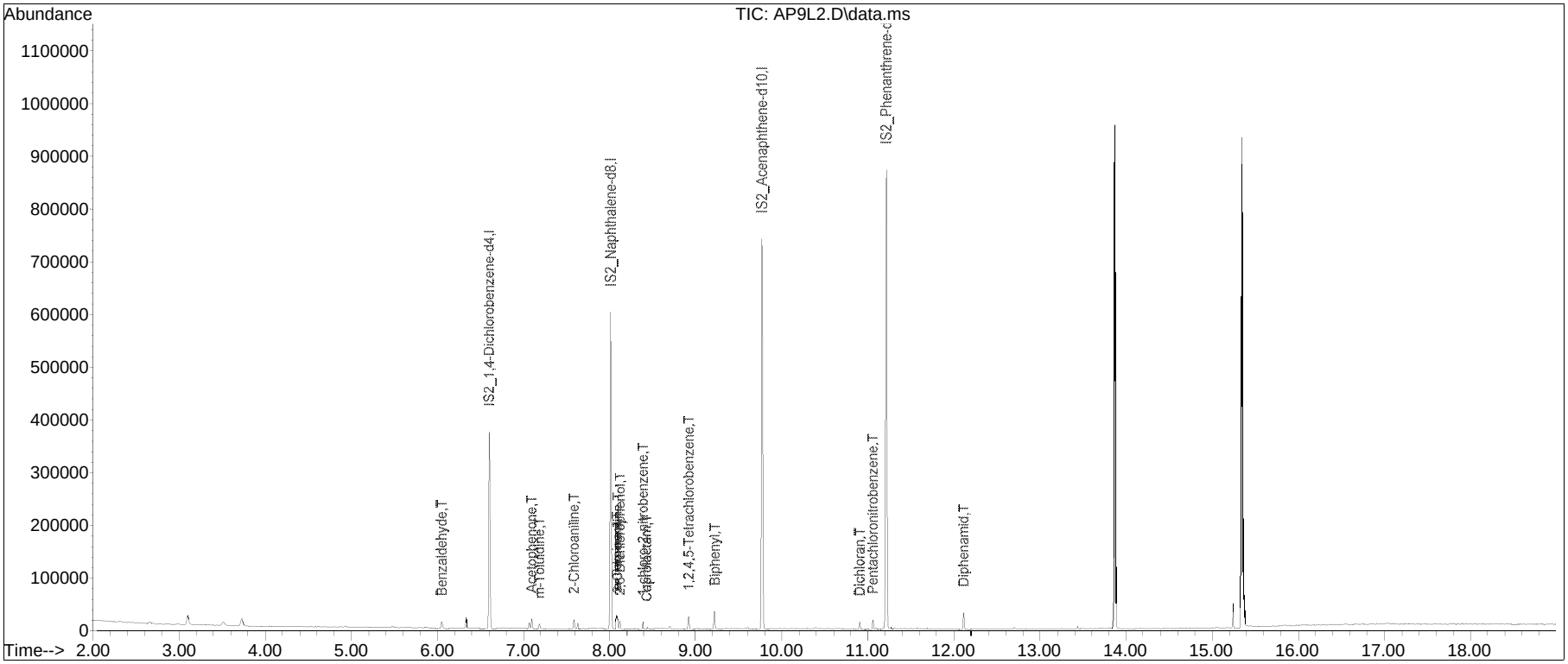
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L2.D
Acq On : 10 Oct 2024 2:25 am
Operator : SV106:HNY
Sample : IL9,32,,AP9L0.2 Lot# 11020
Misc : WG1984388
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 11 11:54:00 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

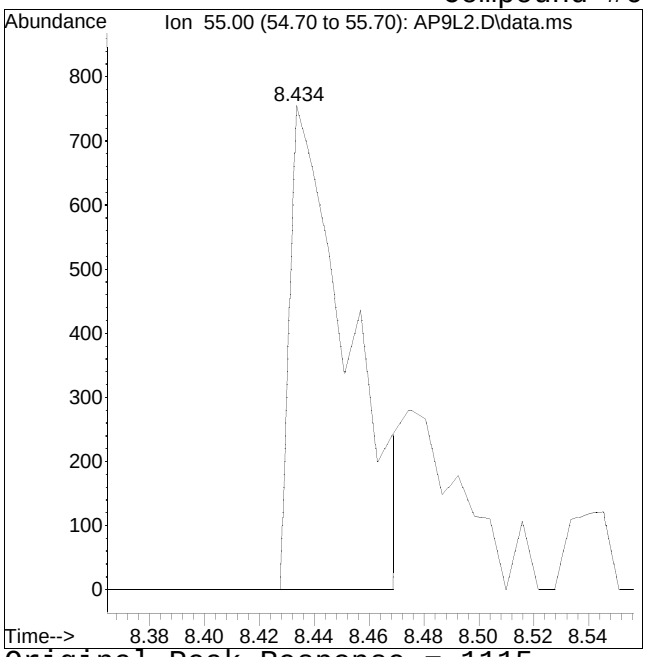
Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•

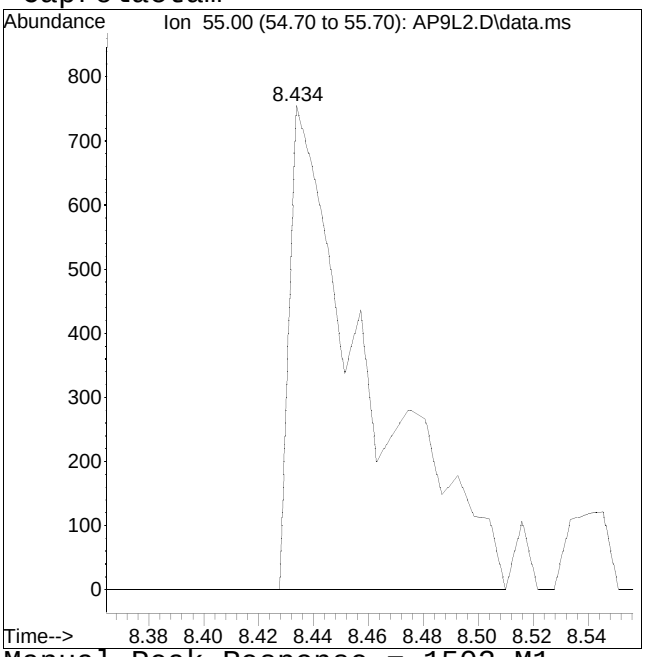


Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : AP9L2.D Operator : SV106:HNY
Date Inj'd : 10/10/2024 2:25 am Instrument : SV 106
Sample : IL9,32,,AP9L0.2 Lot# 11020Quant Date : 10/11/2024 11:15 am

Compound #60: Caprolactam





Original Peak Response = 1115 Manual Peak Response = 1502 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L1.D
Acq On : 10 Oct 2024 2:49 am
Operator : SV106:HNY
Sample : IL10,32,,AP9L0.1 Lot# 11021
Misc : WG1984388
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 11 11:53:01 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.598	152	70009	4.000	ug/ml		0.00
Standard Area 3 = 68577			Recovery =	102.09%			
55) IS2_Naphthalene-d8	8.010	136	259789	4.000	ug/ml	#	0.00
Standard Area 3 = 261108			Recovery =	99.49%			
83) IS2_Acenaphthene-d10	9.769	164	152390	4.000	ug/ml		0.00
Standard Area 3 = 153971			Recovery =	98.97%			
98) IS2_Phenanthrene-d10	11.216	188	307694	4.000	ug/ml		0.00
Standard Area 3 = 324206			Recovery =	94.91%			
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	6.051	105	1355	0.065	ug/ml		92
29) Acetophenone	7.092	105	3024	0.080	ug/ml	#	79
30) m-Toluidine	7.192	106	500	0.015	ug/ml	#	11
31) 2-Chloroaniline	7.586	127	2385	0.080	ug/ml	#	89
56) a-Terpineol	8.081	59	1789	0.069	ug/ml		88
57) 3-Chloroaniline	8.092	65	707	0.054	ug/ml		85
58) 2,6-Dichlorophenol	8.122	162	1585	0.067	ug/ml	#	82
59) 1-chloro-2-nitrobenzene	8.386	111	830	0.071	ug/ml	#	1
60) Caprolactam	0.000		0	N.D.			
61) 1,2,4,5-Tetrachloroben...	8.922	216	2353	0.066	ug/ml		97
62) Biphenyl	9.222	154	5193	0.074	ug/ml		94
84) Dichloran	10.904	206	503	0.053	ug/ml		81
85) Pentachloronitrobenzene	11.057	237	777	0.076	ug/ml	#	7
99) Diphenamid	12.116	167	3550	0.082	ug/ml	#	75

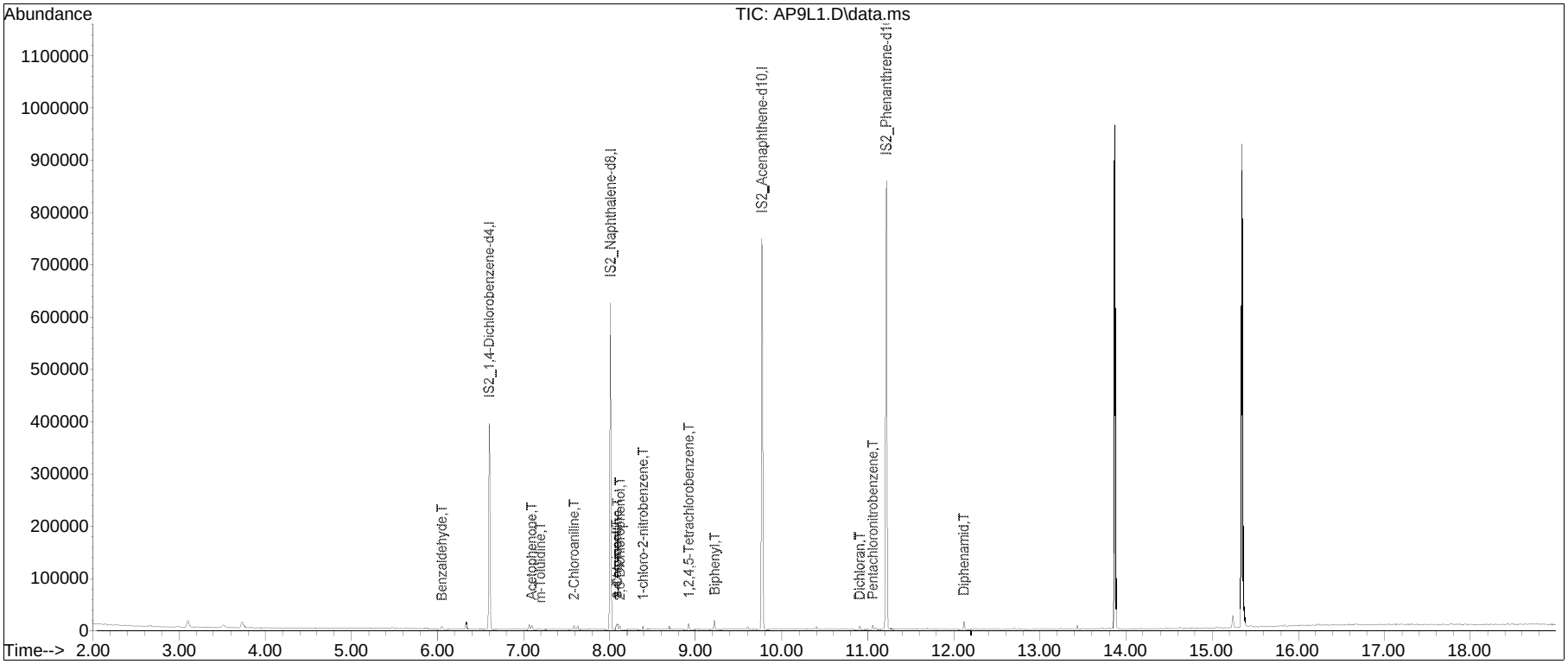
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L1.D
Acq On : 10 Oct 2024 2:49 am
Operator : SV106:HNY
Sample : IL10,32,,AP9L0.1 Lot# 11021
Misc : WG1984388
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 11 11:53:01 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: AP9L1.D	Operator	: SV106:HNY
Date Inj'd	: 10/10/2024 2:49 am	Instrument	: SV 106
Sample	: IL10,32,,AP9L0.1 Lot# 1102	Quant Date	: 10/11/2024 11:15 am

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNICV.D
Acq On : 10 Oct 2024 3:13 am
Operator : SV106:HNY
Sample : CQICV1,32,,ABNICV Lot# 11031
Misc : WG1984388
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 16 05:38:56 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 16 05:40:28 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	99	0.00
2	t	n-Nitrosodimethylamine		0.760	0.773	-1.7	101	0.00
3	t	Pyridine		1.219	1.269	-4.1	104	0.00
4	S	2-Fluorophenol		1.245	1.223	1.8	99	0.00
5	T	Aniline		1.771	1.817	-2.6	99	0.00
6	t	2-Chlorophenol		1.365	1.381	-1.2	99	0.00
7	S	Phenol-d6		1.498	1.497	0.1	101	0.00
8	T	Phenol		1.555	1.590	-2.3	100	0.00
9	T	Bis(2-chloroethyl)ether		1.280	1.286	-0.5	99	0.00
10	T	1,3-Dichlorobenzene		1.669	1.677	-0.5	102	0.00
11	T	1,4-Dichlorobenzene		1.700	1.683	1.0	101	0.00
12	T	1,2-Dichlorobenzene		1.630	1.606	1.5	99	0.00
13	t	Benzyl alcohol		1.060	1.078	-1.7	100	0.00
14	T	Bis(2-chloroisopropyl)ether		2.014	2.003	0.5	101	0.00
15	T	2-Methylphenol		1.123	1.137	-1.2	99	0.00
16	T	Hexachloroethane		0.614	0.614	0.0	101	0.00
17	T	n-Nitrosodi-n-propylamine		0.940	0.946	-0.6	98	0.00
18	T	3-Methylphenol/4-Methylphen		1.225	1.245	-1.6	99	0.00
19	S	Nitrobenzene-d5		1.359	1.398	-2.9	101	0.00
20	T	Nitrobenzene		1.389	1.408	-1.4	101	0.00
21	T	Isophorone		2.416	2.493	-3.2	100	0.00
22	T	2-Nitrophenol		0.713	0.720	-1.0	95	0.00
23	T	2,4-Dimethylphenol		1.119	1.080	3.5	95	0.00
24	T	Bis(2-chloroethoxy)methane		1.614	1.673	-3.7	101	0.00
25	T	2,4-Dichlorophenol		1.250	1.287	-3.0	98	0.00
26	T	1,2,4-Trichlorobenzene		1.449	1.440	0.6	101	0.00
35	I	IS1_Naphthalene-d8		1.000	1.000	0.0	97	0.00
36	T	Naphthalene		1.129	1.129	0.0	101	0.00
37	T	Benzoic Acid	*	5.000	4.755	4.9	93	0.00
38	T	4-Chloroaniline		0.127	0.131	-3.1	99	0.00
39	T	Hexachlorobutadiene		0.239	0.246	-2.9	100	0.00
40	T	p-Chloro-m-cresol		0.296	0.303	-2.4	97	0.00
41	T	2-Methylnaphthalene		0.752	0.781	-3.9	102	0.00
42	T	1-Methylnaphthalene		0.243	0.250	-2.9	103	0.00
43	T	Hexachlorocyclopentadiene		0.262	0.282	-7.6	105	0.00
44	T	2,4,6-Trichlorophenol		0.275	0.278	-1.1	95	0.00
45	T	2,4,5-Trichlorophenol		0.285	0.294	-3.2	99	0.00
46	S	2-Fluorobiphenyl		0.926	0.958	-3.5	102	0.00

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNICV.D
Acq On : 10 Oct 2024 3:13 am
Operator : SV106:HNY
Sample : CQICV1,32,,ABNICV Lot# 11031
Misc : WG1984388
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 16 05:38:56 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 16 05:40:28 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		0.785	0.792	-0.9	100	0.00
48	T	2-Nitroaniline		0.223	0.235	-5.4	98	0.00
49	T	1,4-Dinitrobenzene		0.114	0.120	-5.3	96	0.00
50	T	1,3-Dinitrobenzene		0.125	0.137	-9.6	98	0.00
51	T	Dimethyl phthalate		0.915	0.968	-5.8	100	0.00
52	T	Acenaphthylene		1.170	1.253	-7.1	104	0.00
53	T	2,6-Dinitrotoluene		0.186	0.207	-11.3	99	0.00
54	T	1,2-Dinitrobenzene		0.081	0.087	-7.4	99	0.00
63	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	97	0.00
64	T	3-Nitroaniline		0.323	0.349	-8.0	101	0.00
65	T	Acenaphthene		1.157	1.189	-2.8	104	0.00
66	T	2,4-Dinitrophenol	*	5.000	4.890	2.2	92	0.00
67	T	Dibenzofuran		1.872	1.841	1.7	101	0.00
68	T	2,4-Dinitrotoluene		0.419	0.446	-6.4	99	0.00
69	T	4-Nitrophenol		0.239	0.247	-3.3	94	0.00
70	T	2,3,5,6-Tetrachlorophenol		0.390	0.422	-8.2	101	0.00
71	T	2,3,4,6-Tetrachlorophenol		0.385	0.413	-7.3	100	0.00
72	T	Diethyl phthalate		1.518	1.519	-0.1	99	0.00
73	T	Fluorene		1.462	1.457	0.3	99	0.00
74	T	4-Chlorophenyl phenyl ether		0.750	0.742	1.1	100	0.00
75	T	4-Nitroaniline		0.329	0.337	-2.4	98	0.00
76	T	4,6-Dinitro-o-cresol	*	5.000	4.554	8.9	95	0.00
77	T	NDPA/DPA		1.261	1.306	-3.6	101	0.00
78	T	Azobenzene		1.232	1.248	-1.3	98	0.00
79	S	2,4,6-Tribromophenol		0.226	0.229	-1.3	97	0.00
80	T	4-Bromophenyl phenyl ether		0.465	0.464	0.2	99	0.00
81	T	Hexachlorobenzene		0.526	0.512	2.7	100	0.00
82	T	Pentachlorophenol		0.319	0.320	-0.3	95	0.00
88	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	97	0.00
89	T	Phenanthrene		1.174	1.168	0.5	101	0.00
90	T	Anthracene		1.170	1.177	-0.6	102	0.00
91	T	Carbazole		1.054	1.069	-1.4	99	0.00
92	T	Di-n-butylphthalate		1.319	1.407	-6.7	101	0.00
93	T	Fluoranthene		1.353	1.408	-4.1	101	0.00
94	T	Benzidine		0.776	0.858	-10.6	99	0.00
95	T	Pyrene		1.428	1.499	-5.0	103	0.00
96	S	4-Terphenyl-d14		1.073	1.135	-5.8	104	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNICV.D
Acq On : 10 Oct 2024 3:13 am
Operator : SV106:HNY
Sample : CQICV1,32,,ABNICV Lot# 11031
Misc : WG1984388
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 16 05:38:56 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 16 05:40:28 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	0.555	0.604	-8.8	98	0.00
104	I	IS1_Chrysene-d12	1.000	1.000	0.0	98	0.00
105	T	Benzo(a)anthracene	1.379	1.351	2.0	101	0.00
106	T	3,3'-Dichlorobenzidine	0.453	0.477	-5.3	100	0.00
107	T	Chrysene	1.324	1.265	4.5	99	0.00
108	T	Bis(2-ethylhexyl)phthalate	0.828	0.908	-9.7	100	0.00
109	T	Di-n-octylphthalate	1.373	1.522	-10.9	99	0.00
110	T	Benzo(b)fluoranthene	1.331	1.301	2.3	99	0.00
111	T	Benzo(k)fluoranthene	1.240	1.307	-5.4	102	0.00
112	T	Benzo(a)pyrene	1.155	1.237	-7.1	105	0.00
113	I	IS1_Perylene-d12	1.000	1.000	0.0	97	0.00
114	T	Indeno(1,2,3-cd)pyrene	1.213	1.215	-0.2	97	0.00
115	T	Dibenzo(a,h)anthracene	1.153	1.219	-5.7	101	0.00
116	T	Benzo(ghi)perylene	1.080	1.119	-3.6	100	0.00

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

Quantitation Report (QT Reviewed)

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Operator : SV106:HNY
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Misc : WG1984388
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Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 16 05:40:28 2024
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CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.604	152	68684	4.000	ug/ml	0.00
Standard Area 1 = 69296			Recovery = 99.12%			
35) IS1_Naphthalene-d8	8.010	136	257423	4.000	ug/ml	# 0.00
Standard Area 1 = 264583			Recovery = 97.29%			
63) IS1_Acenaphthene-d10	9.775	164	161843	4.000	ug/ml	0.00
Standard Area 1 = 166975			Recovery = 96.93%			
88) IS1_Phenanthrene-d10	11.216	188	316695	4.000	ug/ml	0.00
Standard Area 1 = 326455			Recovery = 97.01%			
104) IS1_Chrysene-d12	13.868	240	347282	4.000	ug/ml	0.00
Standard Area 1 = 353807			Recovery = 98.16%			
113) IS1_Perylene-d12	15.345	264	367125	4.000	ug/ml	0.00
Standard Area 1 = 379737			Recovery = 96.68%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.775	112	105042	4.915	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 245.75%#			
7) Phenol-d6	6.228	99	128496	4.996	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 249.80%#			
19) Nitrobenzene-d5	7.245	82	119995	5.141	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 514.10%#			
46) 2-Fluorobiphenyl	9.128	172	308242	5.174	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 517.40%#			
79) 2,4,6-Tribromophenol	10.545	330	46238	5.050	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 252.50%#			
96) 4-Terphenyl-d14	12.804	244	449426	5.288	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 528.80%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.305	74	66355	5.083	ug/ml#	67
3) Pyridine	2.340	79	108986	5.208	ug/ml#	63
5) Aniline	6.198	93	156034	5.131	ug/ml	97
6) 2-Chlorophenol	6.340	128	118551	5.057	ug/ml	91
8) Phenol	6.245	94	136545	5.115	ug/ml	95
9) Bis(2-chloroethyl)ether	6.322	93	110450	5.024	ug/ml	87
10) 1,3-Dichlorobenzene	6.528	146	143984	5.025	ug/ml	97
11) 1,4-Dichlorobenzene	6.622	146	144474	4.950	ug/ml	97
12) 1,2-Dichlorobenzene	6.798	146	137894	4.926	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNICV.D
Acq On : 10 Oct 2024 3:13 am
Operator : SV106:HNY
Sample : CQICV1,32,,ABNICV Lot# 11031
Misc : WG1984388
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 16 05:38:56 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 16 05:40:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.798	79	92581	5.086	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.975	45	171977	4.974	ug/ml#	58
15) 2-Methylphenol	6.963	108	97643	5.062	ug/ml	96
16) Hexachloroethane	7.181	117	52744	5.004	ug/ml#	59
17) n-Nitrosodi-n-propylamine	7.122	70	81185	5.029	ug/ml	96
18) 3-Methylphenol/4-Methy...	7.145	108	106865	5.080	ug/ml	98
20) Nitrobenzene	7.269	77	120866	5.068	ug/ml	96
21) Isophorone	7.545	82	214041	5.159	ug/ml	98
22) 2-Nitrophenol	7.622	139	61782	5.049	ug/ml	88
23) 2,4-Dimethylphenol	7.716	107	92715	4.827	ug/ml	96
24) Bis(2-chloroethoxy)met...	7.810	93	143604	5.181	ug/ml	100
25) 2,4-Dichlorophenol	7.881	162	110484	5.148	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.963	180	123600	4.968	ug/ml	94
36) Naphthalene	8.034	128	363286	4.999	ug/ml	100
37) Benzoic Acid	7.804	105	65401	4.755	ug/ml	94
38) 4-Chloroaniline	8.110	65	42184	5.175	ug/ml#	72
39) Hexachlorobutadiene	8.198	225	79167	5.152	ug/ml	99
40) p-Chloro-m-cresol	8.633	107	97611	5.120	ug/ml	93
41) 2-Methylnaphthalene	8.745	142	251305	5.189	ug/ml	96
42) 1-Methylnaphthalene	8.839	115	80597	5.144	ug/ml	95
43) Hexachlorocyclopentadiene	8.922	237	90794	5.387	ug/ml	98
44) 2,4,6-Trichlorophenol	9.039	196	89438	5.050	ug/ml	99
45) 2,4,5-Trichlorophenol	9.069	196	94454	5.151	ug/ml	99
47) 2-Chloronaphthalene	9.228	162	254917	5.049	ug/ml	96
48) 2-Nitroaniline	9.333	138	75716	5.268	ug/ml#	83
49) 1,4-Dinitrobenzene	9.469	168	38619	5.263	ug/ml#	75
50) 1,3-Dinitrobenzene	9.545	168	44206	5.496	ug/ml#	1
51) Dimethyl phthalate	9.539	163	311435	5.291	ug/ml#	99
52) Acenaphthylene	9.628	152	403177	5.356	ug/ml	99
53) 2,6-Dinitrotoluene	9.581	165	66602	5.566	ug/ml#	73
54) 1,2-Dinitrobenzene	9.628	168	28077	5.413	ug/ml#	1
64) 3-Nitroaniline	9.739	138	70653	5.406	ug/ml#	92
65) Acenaphthene	9.804	154	240578	5.139	ug/ml	93
66) 2,4-Dinitrophenol	9.839	184	38145	4.890	ug/ml#	84
67) Dibenzofuran	9.975	168	372461	4.918	ug/ml	96
68) 2,4-Dinitrotoluene	9.975	165	90317	5.325	ug/ml	88
69) 4-Nitrophenol	9.922	65	50008	5.173	ug/ml#	80
70) 2,3,5,6-Tetrachlorophenol	10.063	232	85379	5.405	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNICV.D
Acq On : 10 Oct 2024 3:13 am
Operator : SV106:HNY
Sample : CQICV1,32,,ABNICV Lot# 11031
Misc : WG1984388
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 16 05:38:56 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 16 05:40:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	10.104	232	83604	5.362	ug/ml		97
72)	Diethyl phthalate	10.233	149	307265	5.003	ug/ml		99
73)	Fluorene	10.310	166	294821	4.984	ug/ml		94
74)	4-Chlorophenyl phenyl ...	10.328	204	150045	4.942	ug/ml		89
75)	4-Nitroaniline	10.333	138	68272	5.134	ug/ml	#	82
76)	4,6-Dinitro-o-cresol	10.369	198	51882	4.554	ug/ml	#	60
77)	NDPA/DPA	10.439	169	264255	5.178	ug/ml		99
78)	Azobenzene	10.475	77	252540	5.065	ug/ml	#	90
80)	4-Bromophenyl phenyl e...	10.798	248	93831	4.989	ug/ml	#	84
81)	Hexachlorobenzene	10.851	284	103516	4.861	ug/ml	#	83
82)	Pentachlorophenol	11.045	266	64691	5.020	ug/ml		99
89)	Phenanthrene	11.239	178	462471	4.977	ug/ml		99
90)	Anthracene	11.286	178	465973	5.029	ug/ml		99
91)	Carbazole	11.451	167	423253	5.073	ug/ml		99
92)	Di-n-butylphthalate	11.839	149	556869	5.333	ug/ml		98
93)	Fluoranthene	12.398	202	557525	5.203	ug/ml	#	92
94)	Benzidine	12.545	184	339703	5.530	ug/ml	#	95
95)	Pyrene	12.616	202	593234	5.248	ug/ml		100
97)	Butyl benzyl phthalate	13.327	149	238944	5.443	ug/ml		87
105)	Benzo(a)anthracene	13.857	228	586338	4.896	ug/ml		100
106)	3,3'-Dichlorobenzidine	13.857	252	206912	5.260	ug/ml	#	97
107)	Chrysene	13.898	228	549197	4.779	ug/ml		100
108)	Bis(2-ethylhexyl)phtha...	13.968	149	394308	5.485	ug/ml	#	93
109)	Di-n-octylphthalate	14.651	149	660821	5.543	ug/ml	#	73
110)	Benzo(b)fluoranthene	14.974	252	564800	4.888	ug/ml	#	95
111)	Benzo(k)fluoranthene	15.004	252	567319	5.271	ug/ml	#	94
112)	Benzo(a)pyrene	15.292	252	537065	5.356	ug/ml	#	94
114)	Indeno(1,2,3-cd)pyrene	16.357	276	557701M6	5.011	ug/mL		
115)	Dibenzo(a,h)anthracene	16.380	278	559514	5.286	ug/ml	#	91
116)	Benzo(ghi)perylene	16.621	276	513605	5.182	ug/ml	#	87

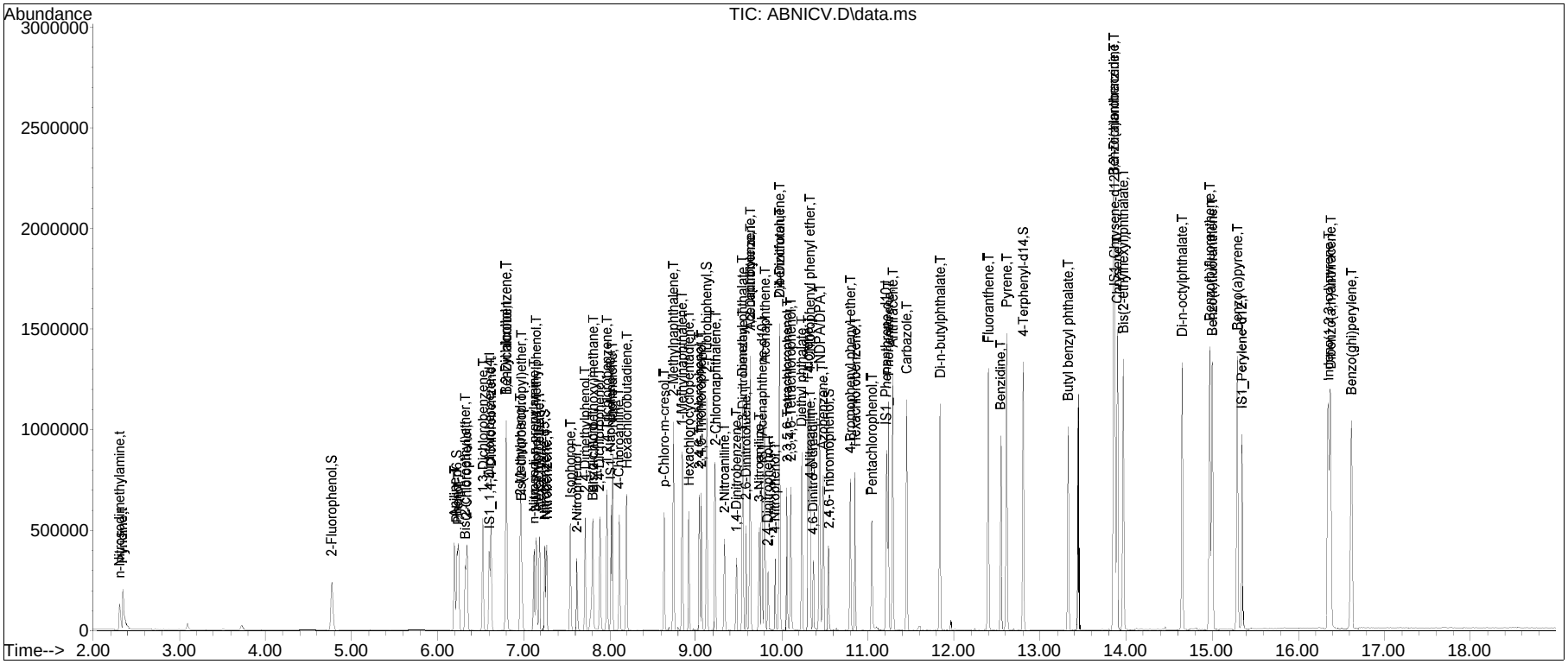
(#) = qualifier out of range (m) = manual integration (+) = signals summed

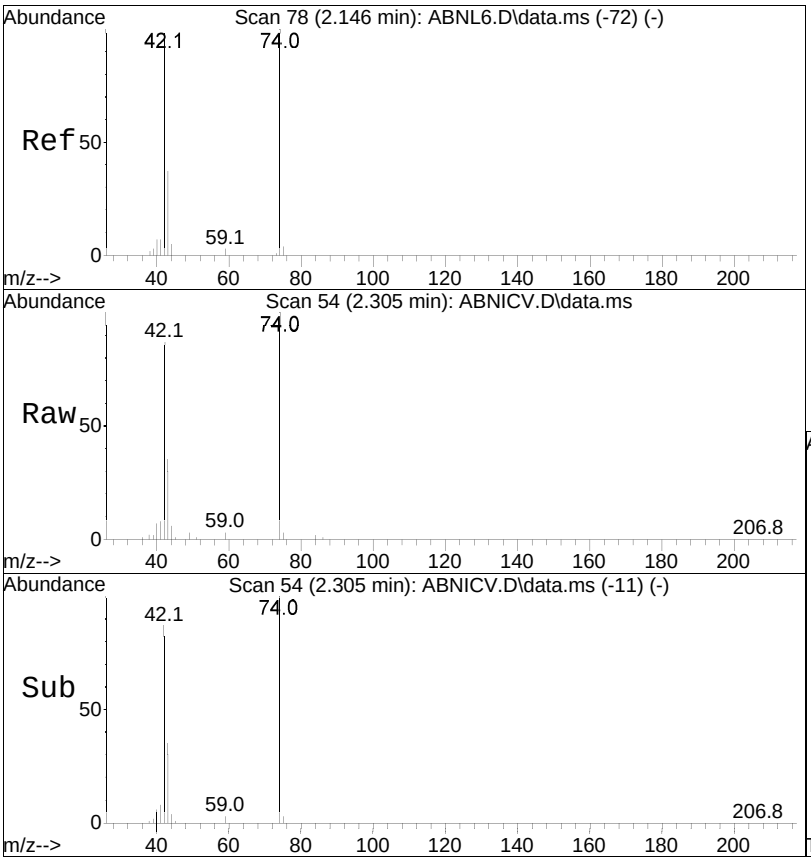
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNICV.D
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Sub List : ABNical - ABN ical sublistTical\AP9L6.D•

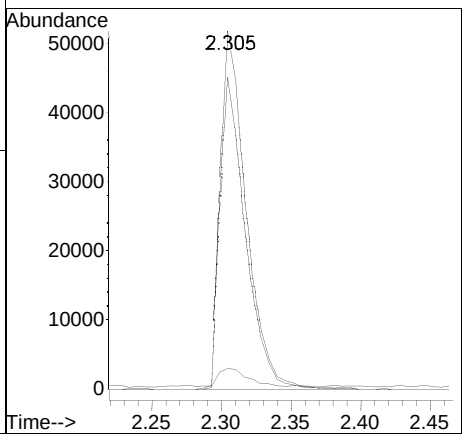


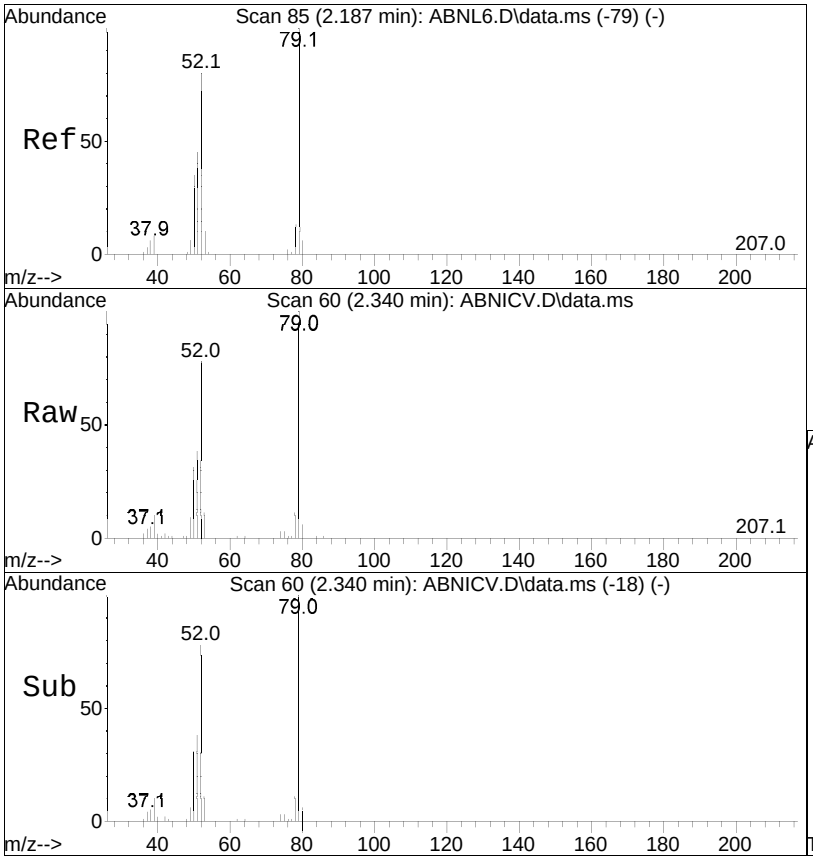


#2
n-Nitrosodimethylamine
Concen: 5.08 ug/ml
RT: 2.305 min Scan# 54
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion: 74 Resp: 66355

Ion	Ratio	Lower	Upper
74	100		
42	85.7	100.0	150.0#
44	5.5	6.7	10.1#

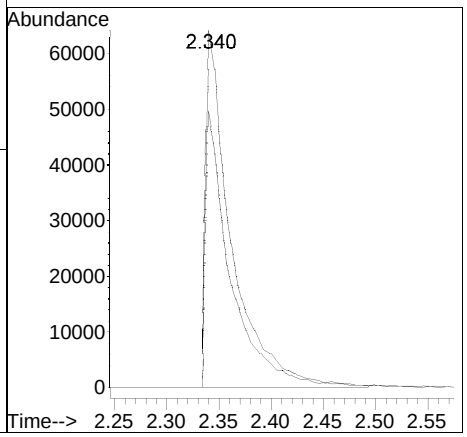


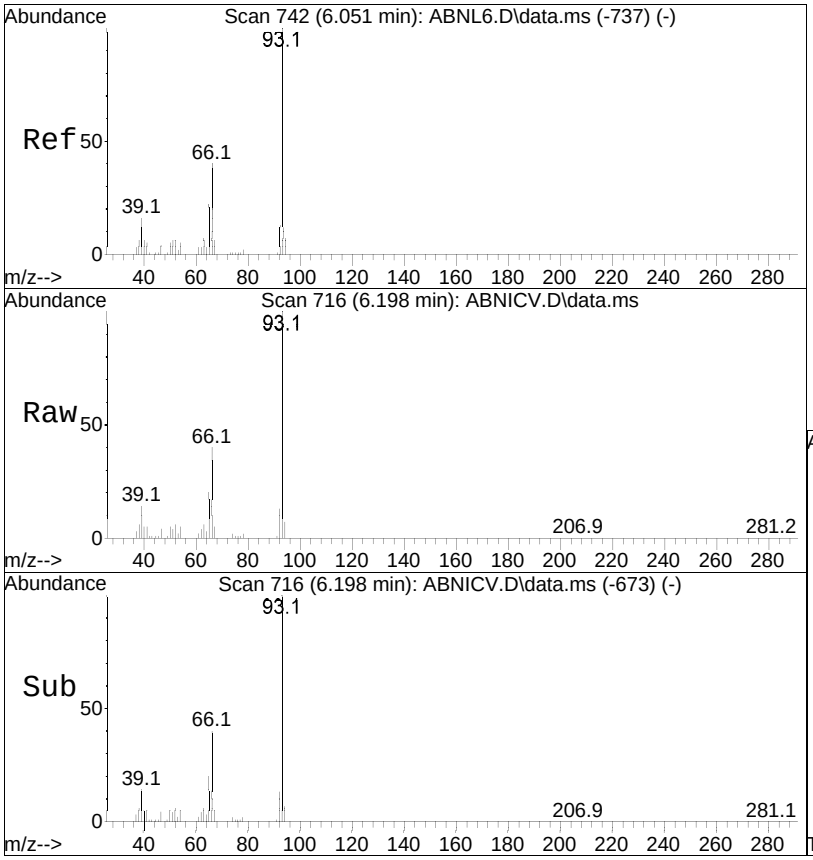


#3
Pyridine
Concen: 5.21 ug/ml
RT: 2.340 min Scan# 60
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion: 79 Resp: 108986

Ion	Ratio	Lower	Upper
79	100		
52	76.1	93.1	139.7#

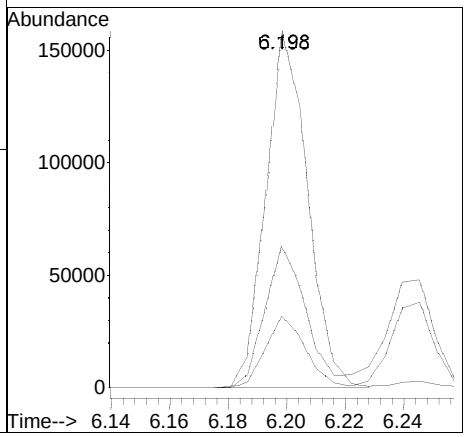


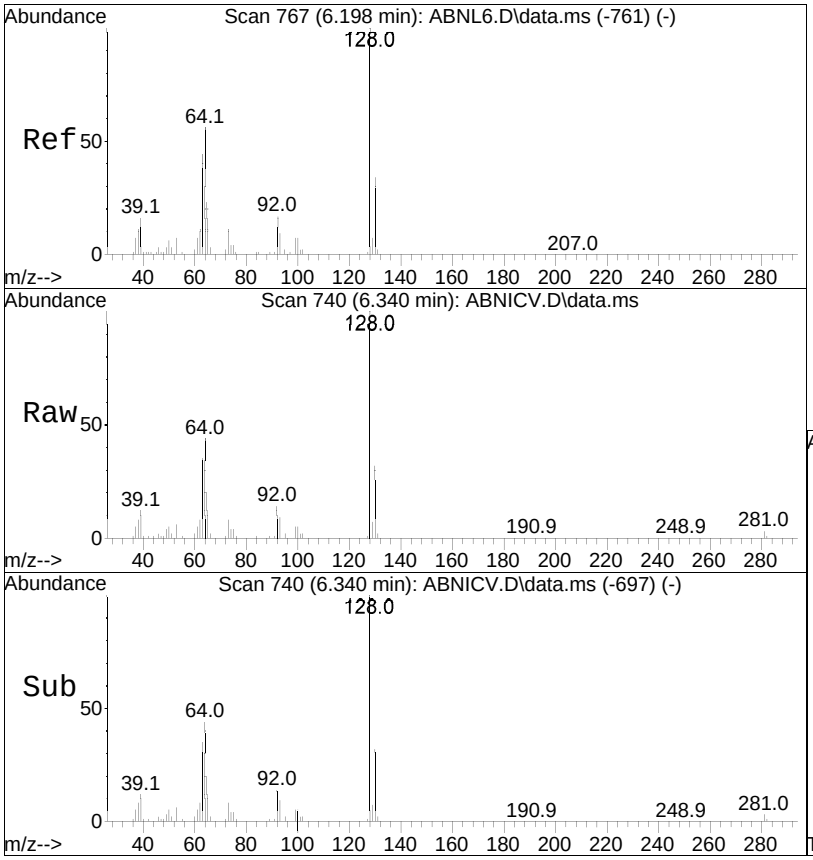


#5
Aniline
Concen: 5.13 ug/ml
RT: 6.198 min Scan# 716
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion: 93 Resp: 156034

Ion	Ratio	Lower	Upper
93	100		
66	39.1	32.6	49.0
65	19.7	17.6	26.4

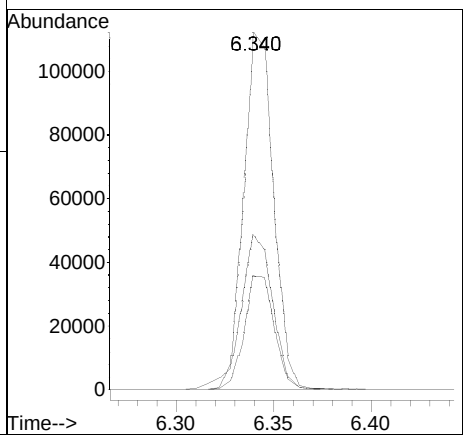


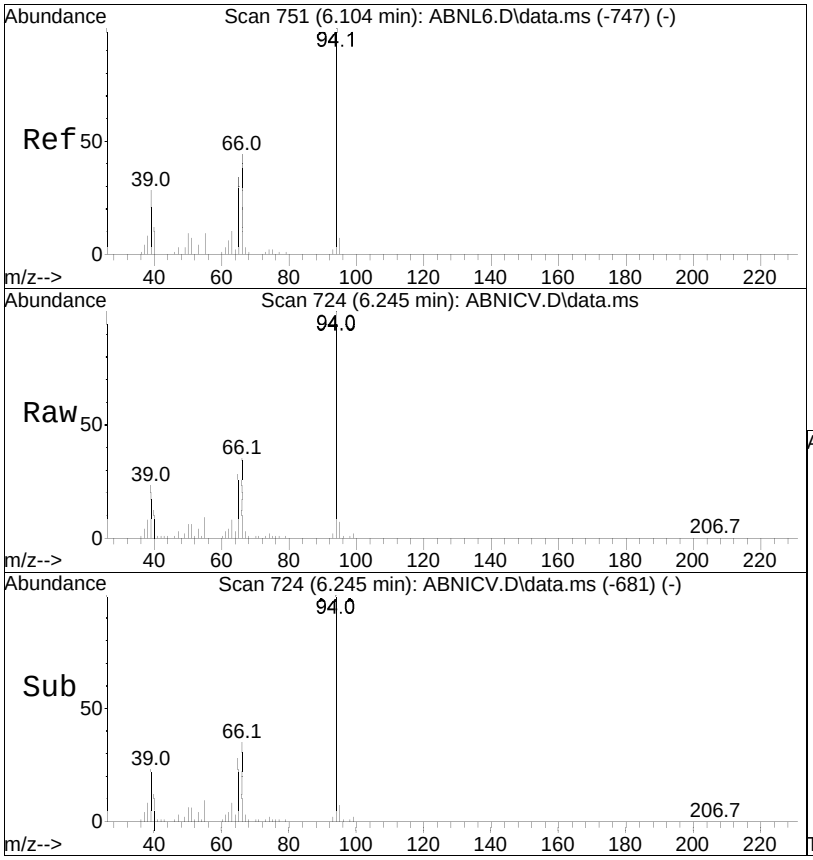


#6
2-Chlorophenol
Concen: 5.06 ug/ml
RT: 6.340 min Scan# 740
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:128 Resp: 118551

Ion	Ratio	Lower	Upper
128	100		
64	46.4	45.1	67.7
130	32.2	26.2	39.4

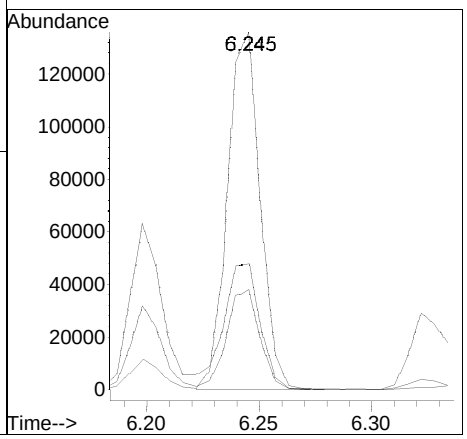


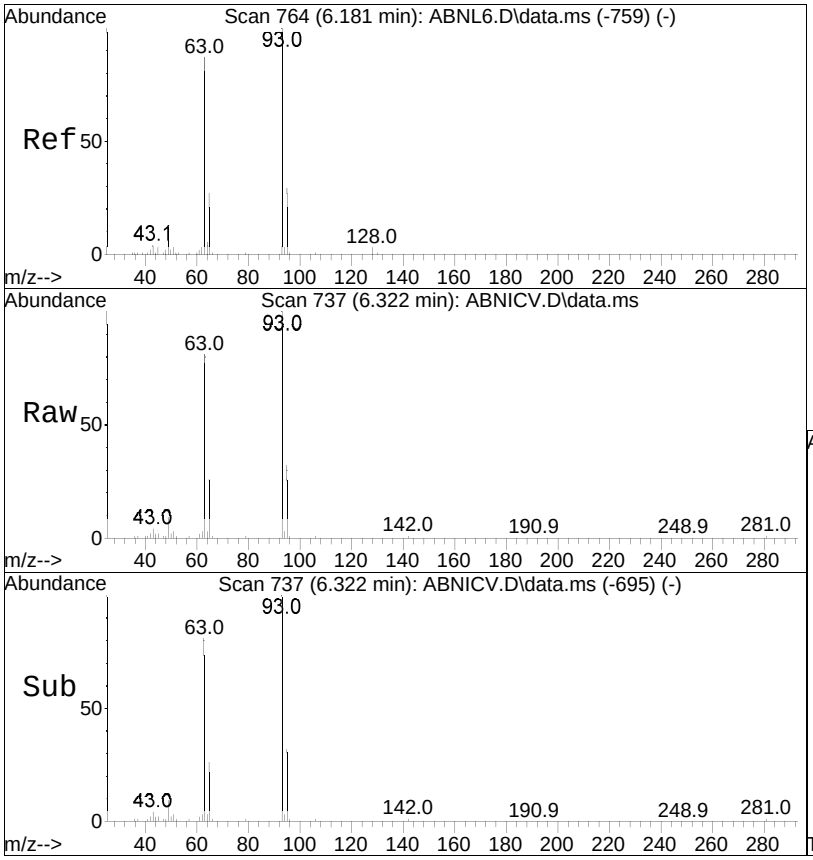


#8
Phenol
Concen: 5.12 ug/ml
RT: 6.245 min Scan# 724
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion: 94 Resp: 136545

Ion	Ratio	Lower	Upper
94	100		
65	28.7	26.0	39.0
66	39.5	33.8	50.8

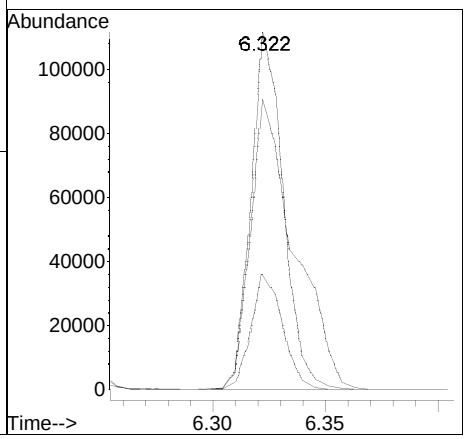


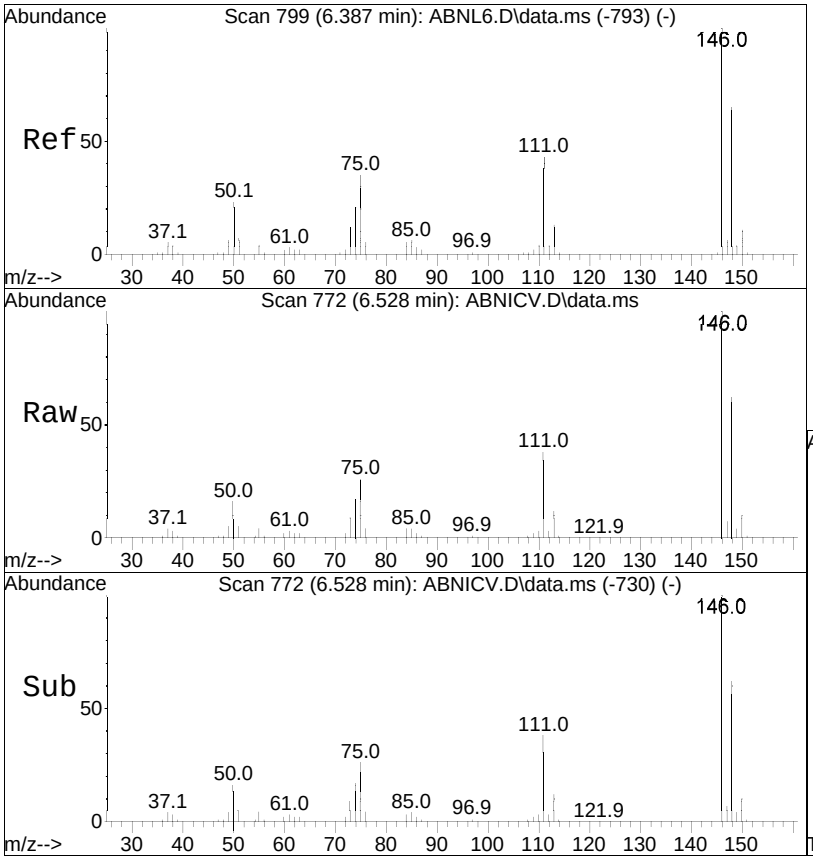


#9
Bis(2-chloroethyl)ether
Concen: 5.02 ug/ml
RT: 6.322 min Scan# 737
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion: 93 Resp: 110450

Ion	Ratio	Lower	Upper
93	100		
63	110.3	74.6	111.8
95	31.7	25.9	38.9

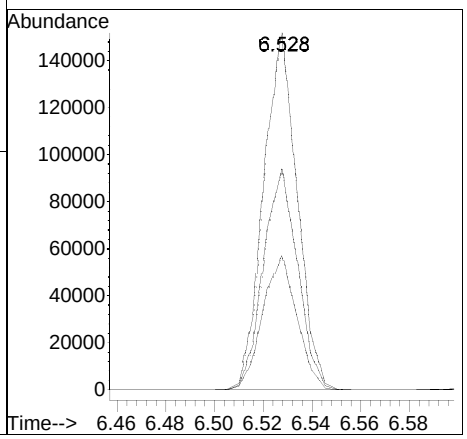


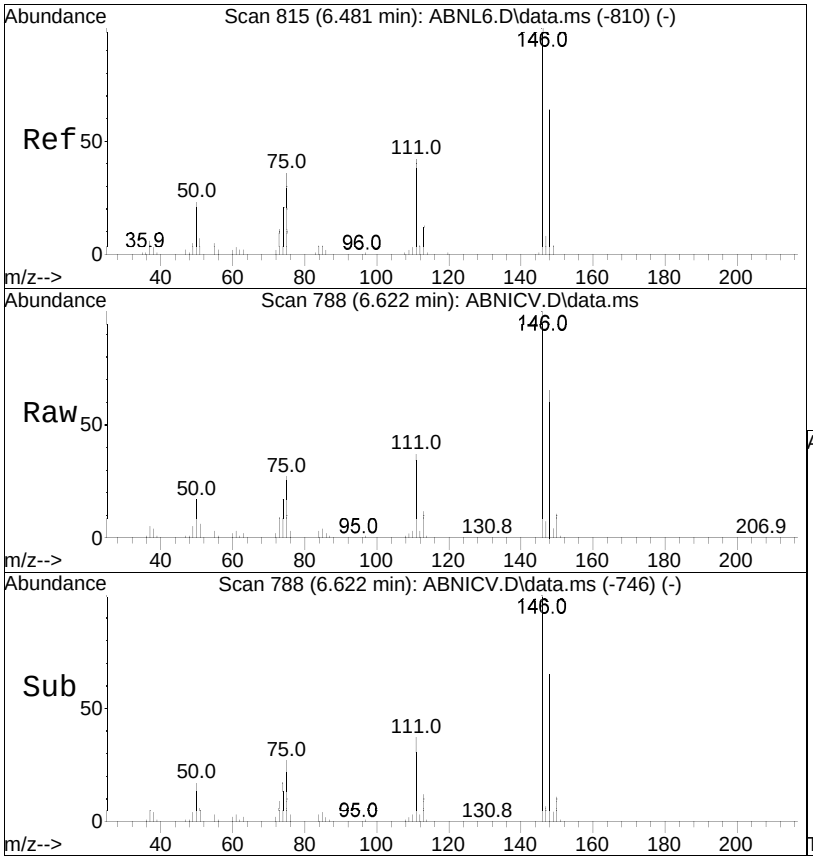


#10
1,3-Dichlorobenzene
Concen: 5.02 ug/ml
RT: 6.528 min Scan# 772
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:146 Resp: 143984

Ion	Ratio	Lower	Upper
146	100		
111	38.6	34.3	51.5
148	63.2	50.8	76.2

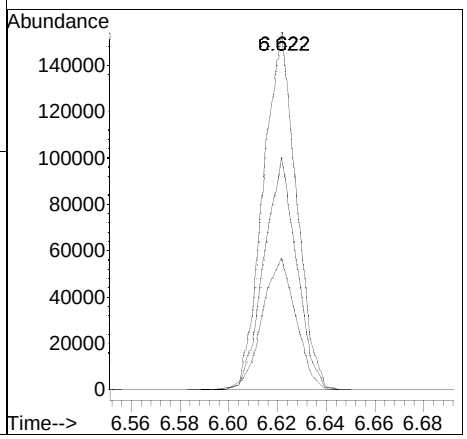


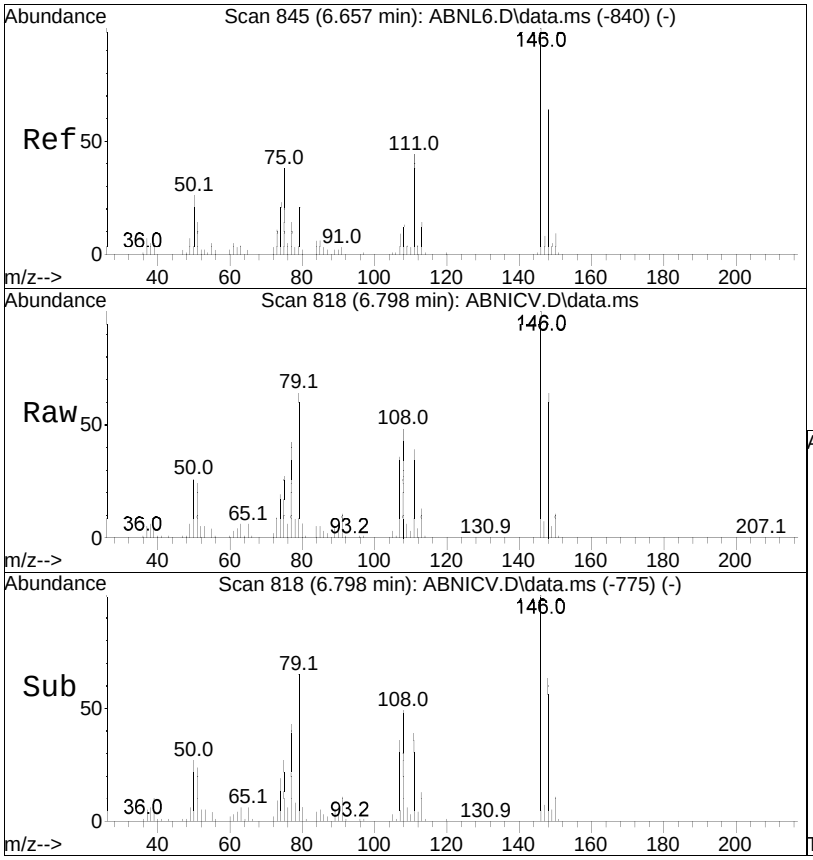


#11
1,4-Dichlorobenzene
Concen: 4.95 ug/ml
RT: 6.622 min Scan# 788
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:146 Resp: 144474

Ion	Ratio	Lower	Upper
146	100		
148	63.9	50.7	76.1
111	37.9	33.4	50.0

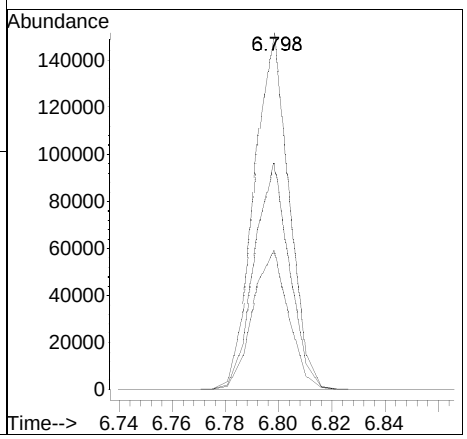


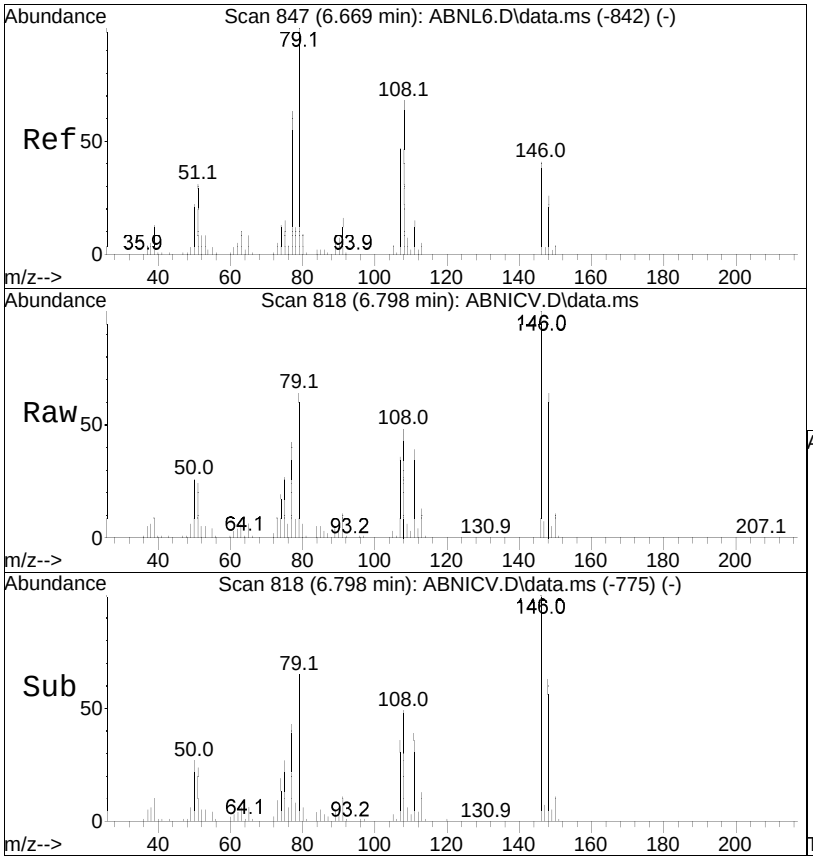


#12
1,2-Dichlorobenzene
Concen: 4.93 ug/ml
RT: 6.798 min Scan# 818
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:146 Resp: 137894

Ion	Ratio	Lower	Upper
146	100		
111	40.2	34.6	52.0
148	64.1	50.2	75.4

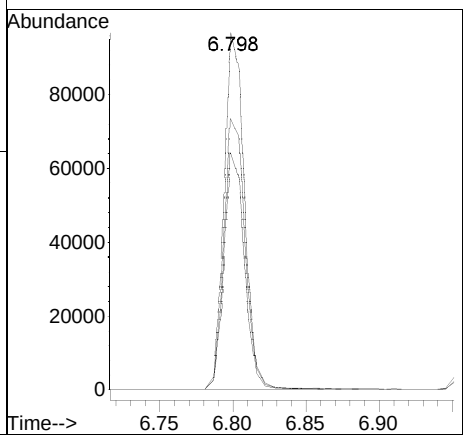


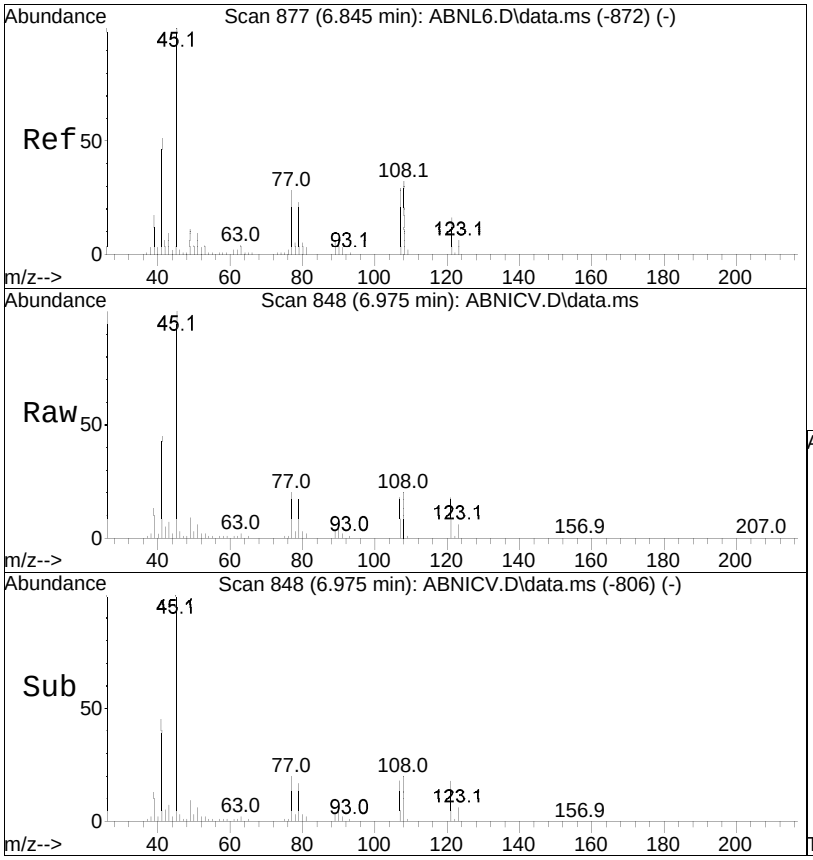


#13
Benzyl alcohol
Concen: 5.09 ug/ml
RT: 6.798 min Scan# 818
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion: 79 Resp: 92581

Ion	Ratio	Lower	Upper
79	100		
77	66.4	54.9	82.3
108	78.6	63.1	94.7

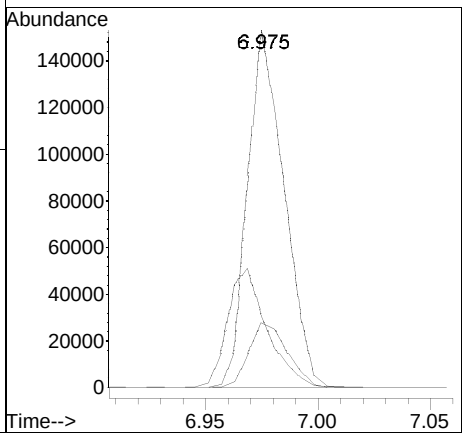


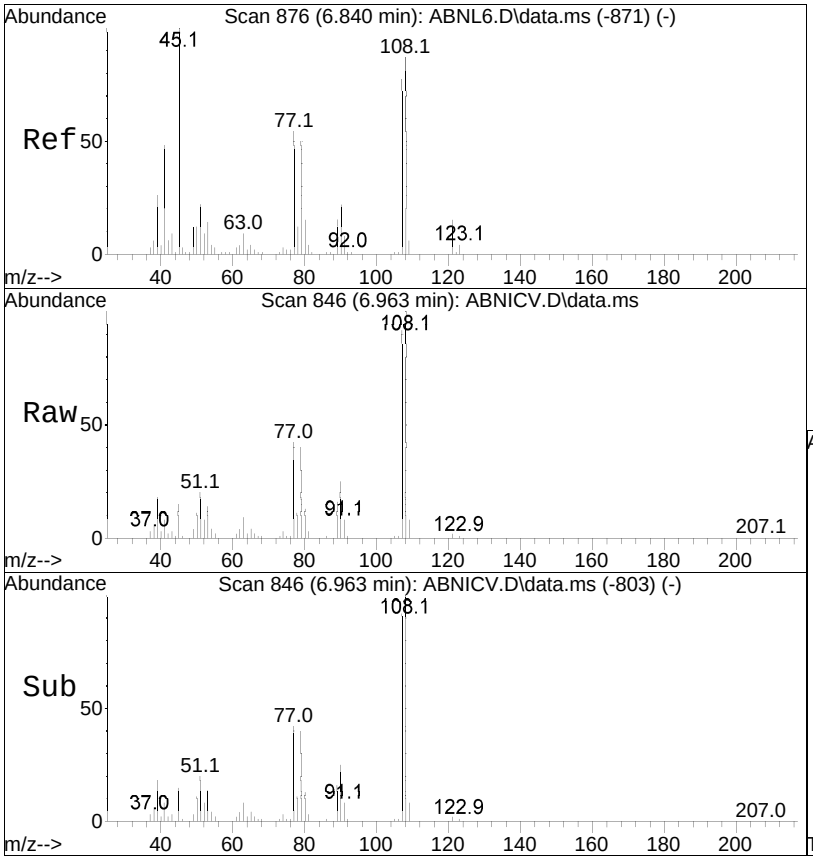


#14
Bis(2-chloroisopropyl)ether
Concen: 4.97 ug/ml
RT: 6.975 min Scan# 848
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion: 45 Resp: 171977

Ion	Ratio	Lower	Upper
45	100		
121	19.1	9.8	14.6#
77	36.1	6.1	9.1#

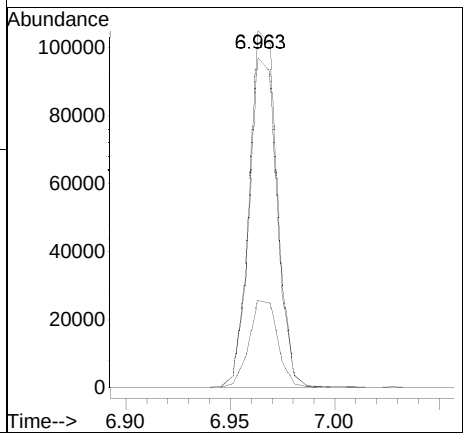


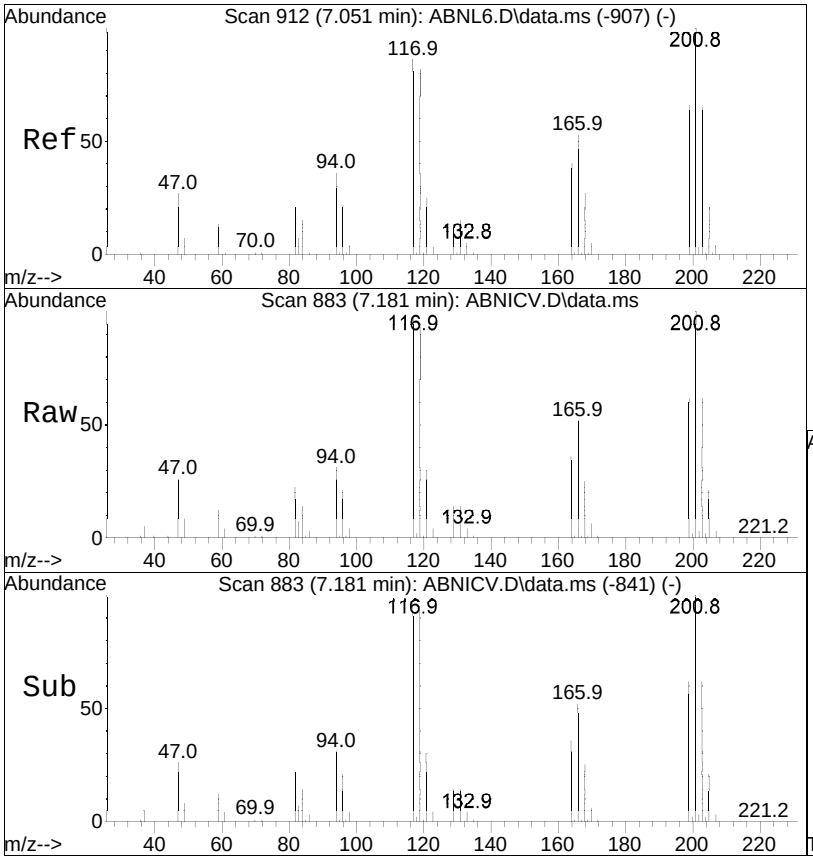


#15
2-Methylphenol
Concen: 5.06 ug/ml
RT: 6.963 min Scan# 846
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:108 Resp: 97643

Ion	Ratio	Lower	Upper
108	100		
107	92.3	70.7	106.1
90	25.1	18.7	28.1

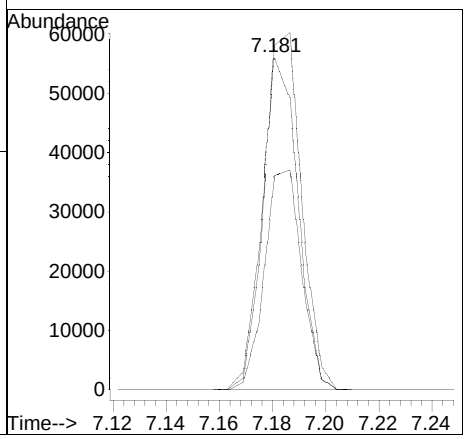


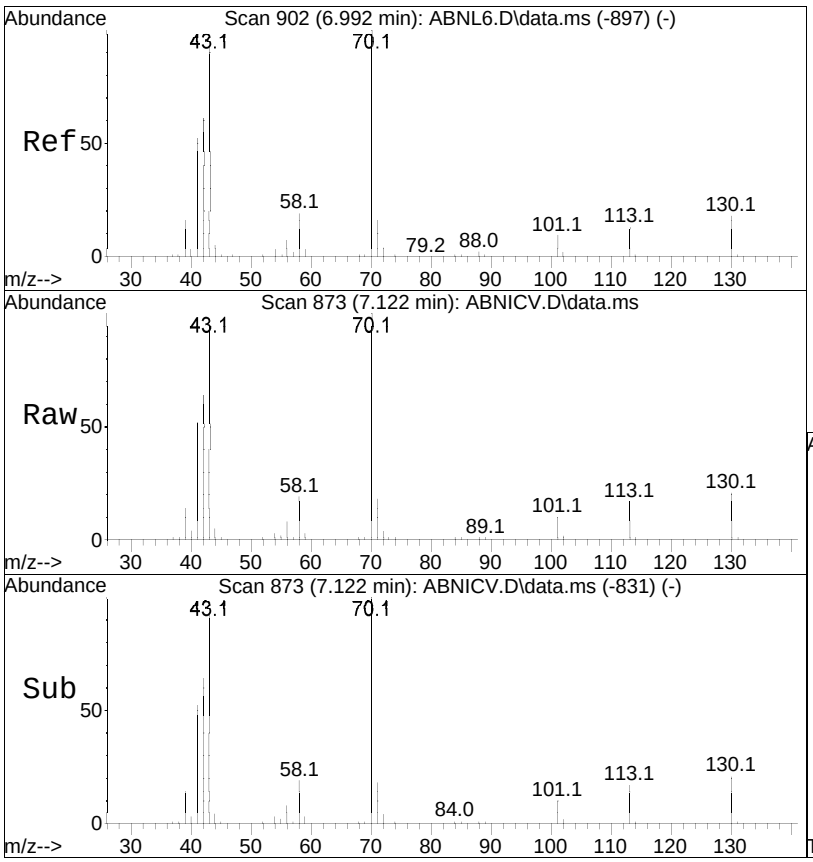


#16
Hexachloroethane
Concen: 5.00 ug/ml
RT: 7.181 min Scan# 883
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:117 Resp: 52744

Ion	Ratio	Lower	Upper
117	100		
201	111.9	58.6	87.8#
199	68.4	36.9	55.3#

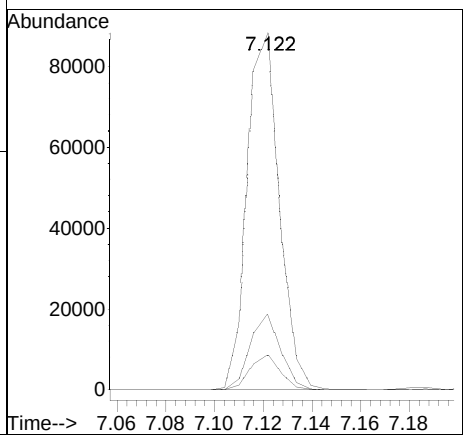


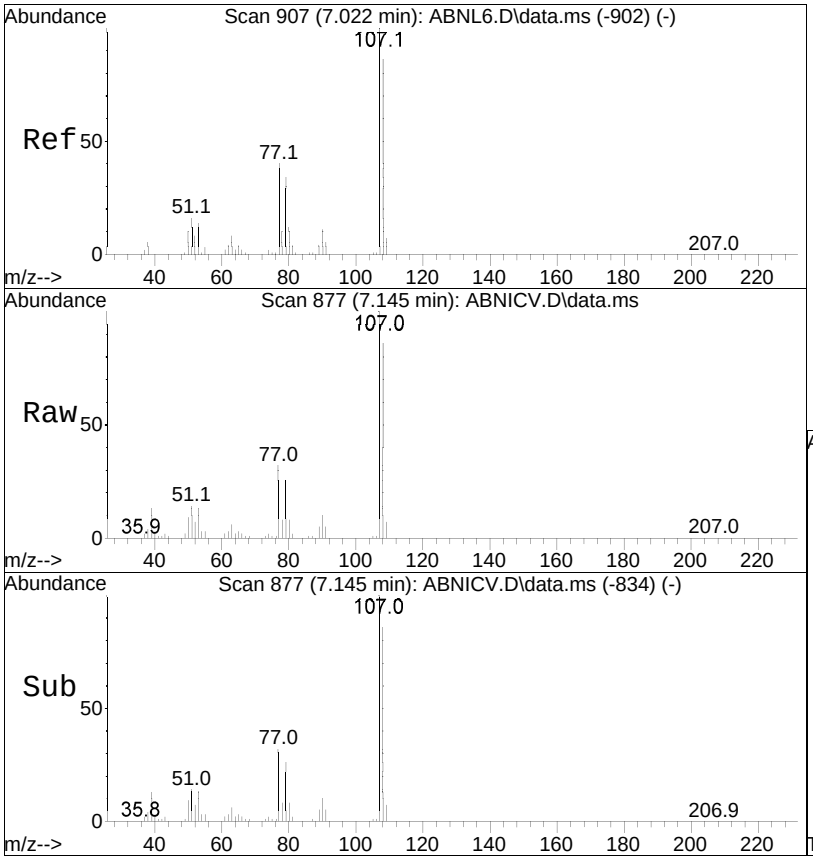


#17
n-Nitrosodi-n-propylamine
Concen: 5.03 ug/ml
RT: 7.122 min Scan# 873
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion: 70 Resp: 81185

Ion	Ratio	Lower	Upper
70	100		
130	20.1	18.2	27.4
101	9.2	7.8	11.8

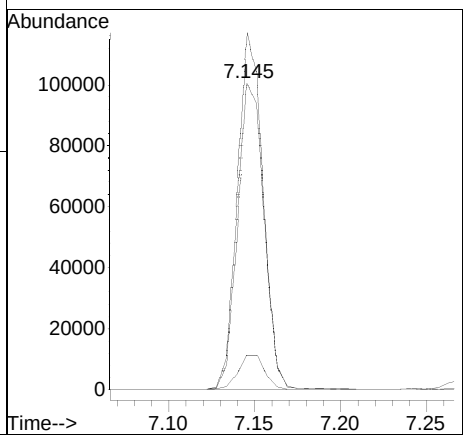


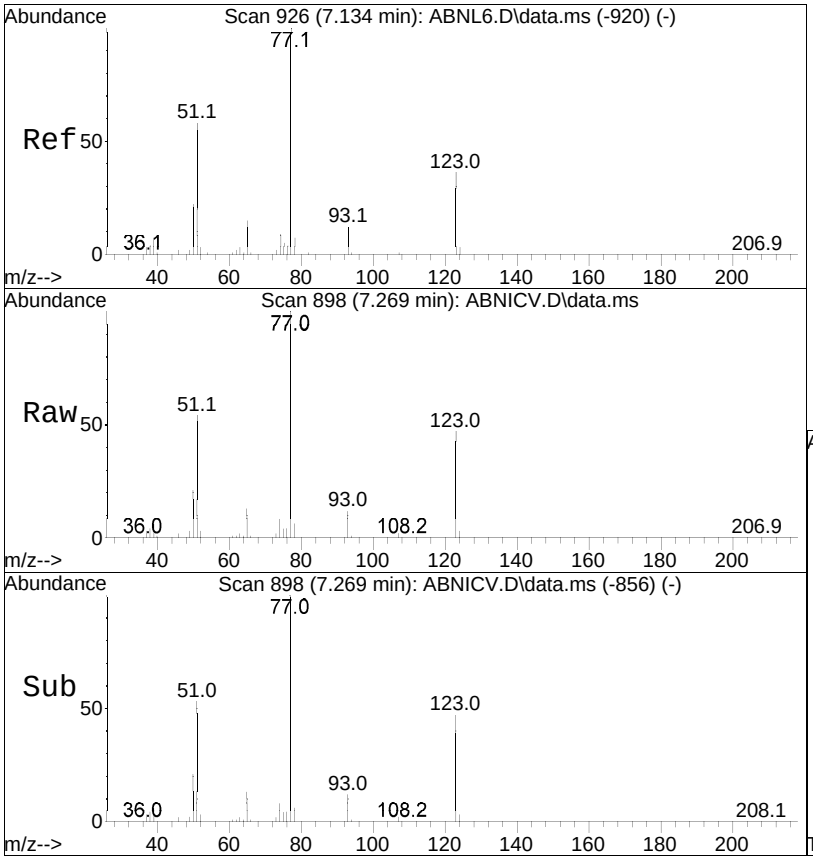


#18
3-Methylphenol/4-Methylphenol
Concen: 5.08 ug/ml
RT: 7.145 min Scan# 877
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:108 Resp: 106865

Ion	Ratio	Lower	Upper
108	100		
107	113.1	88.6	132.8
90	11.3	8.8	13.2

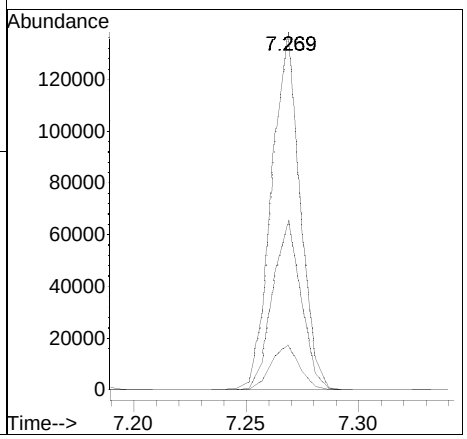


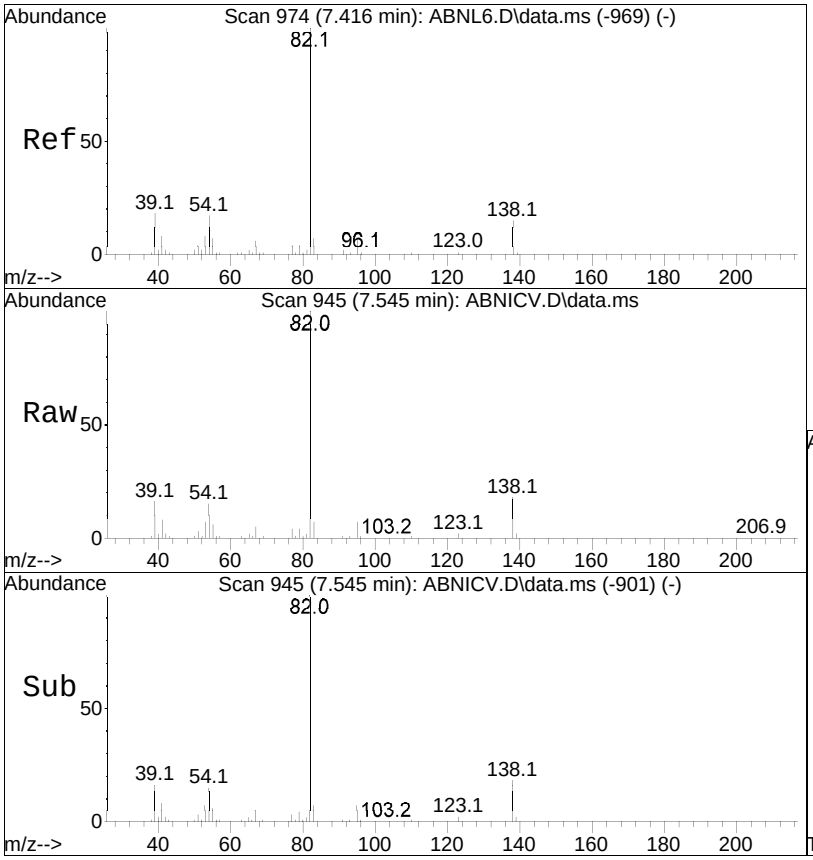


#20
Nitrobenzene
Concen: 5.07 ug/ml
RT: 7.269 min Scan# 898
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion: 77 Resp: 120866

Ion	Ratio	Lower	Upper
77	100		
123	47.6	36.3	54.5
65	12.7	11.6	17.4

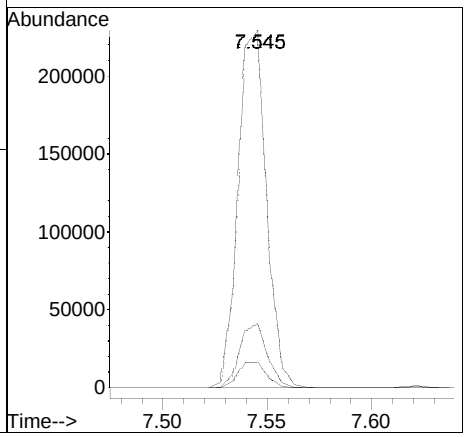


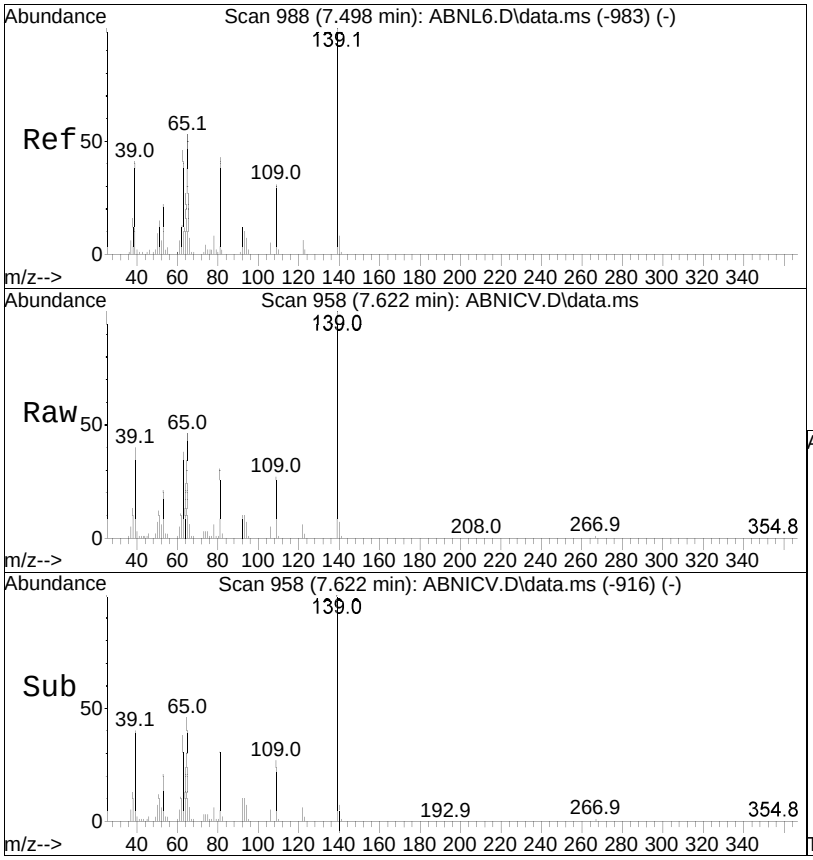


#21
Isophorone
Concen: 5.16 ug/ml
RT: 7.545 min Scan# 945
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion: 82 Resp: 214041

Ion	Ratio	Lower	Upper
82	100		
138	17.6	14.7	22.1
95	7.3	5.2	7.8

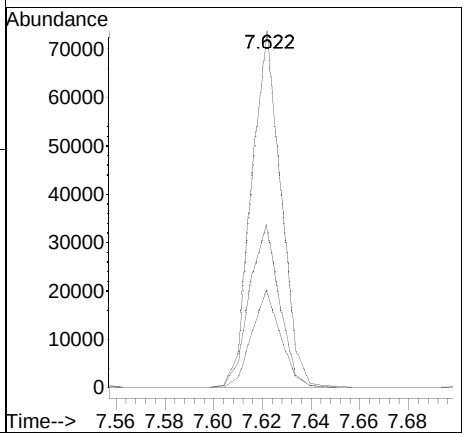


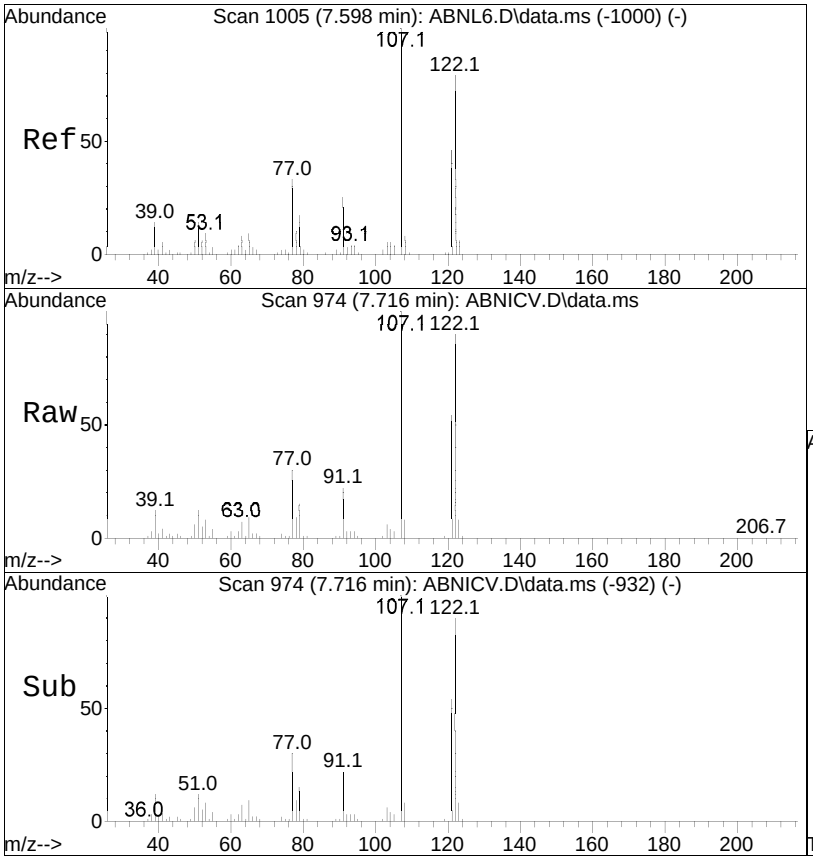


#22
2-Nitrophenol
Concen: 5.05 ug/ml
RT: 7.622 min Scan# 958
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:139 Resp: 61782

Ion	Ratio	Lower	Upper
139	100		
109	26.8	19.4	29.0
65	46.7	46.1	69.1

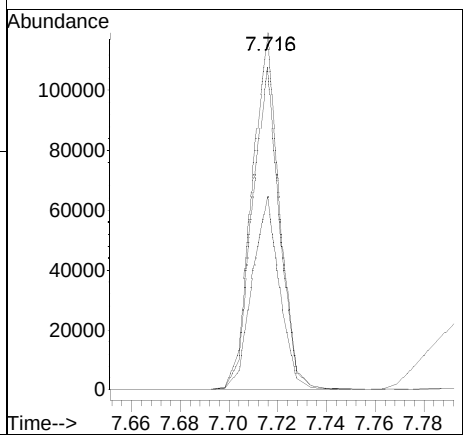


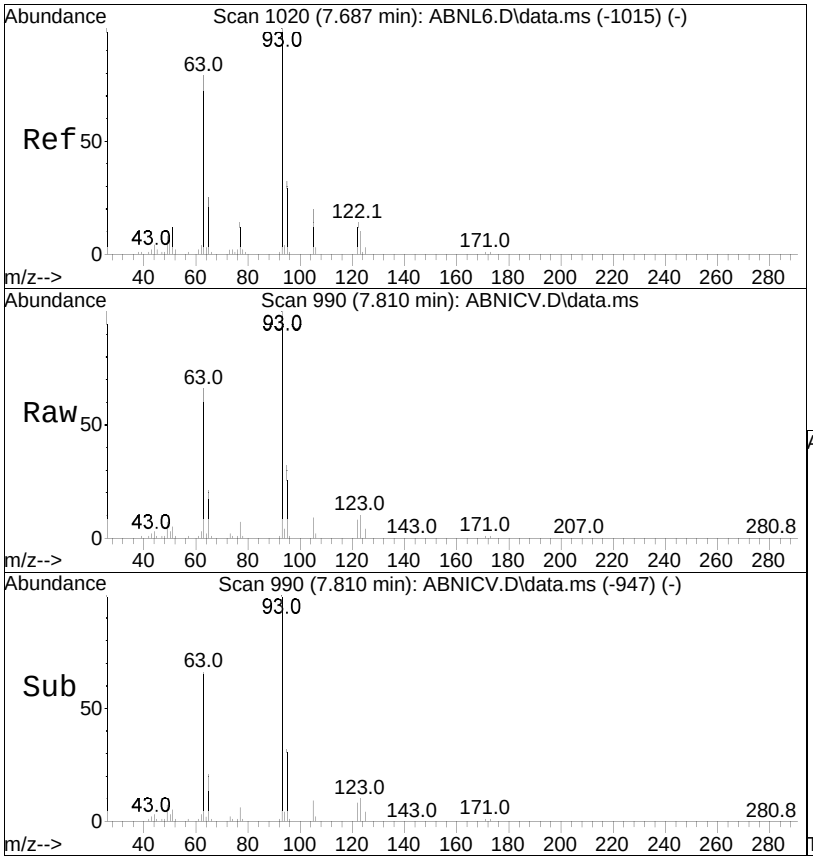


#23
2,4-Dimethylphenol
Concen: 4.83 ug/ml
RT: 7.716 min Scan# 974
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:107 Resp: 92715

Ion	Ratio	Lower	Upper
107	100		
121	54.2	40.0	60.0
122	89.8	70.2	105.4

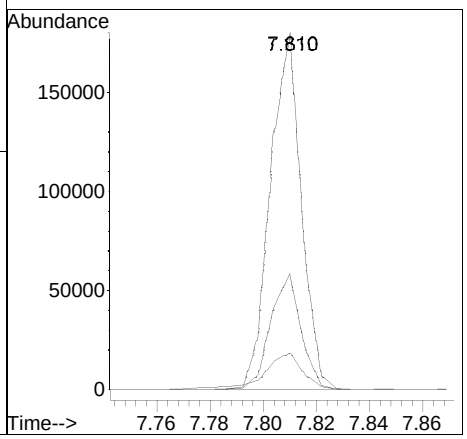


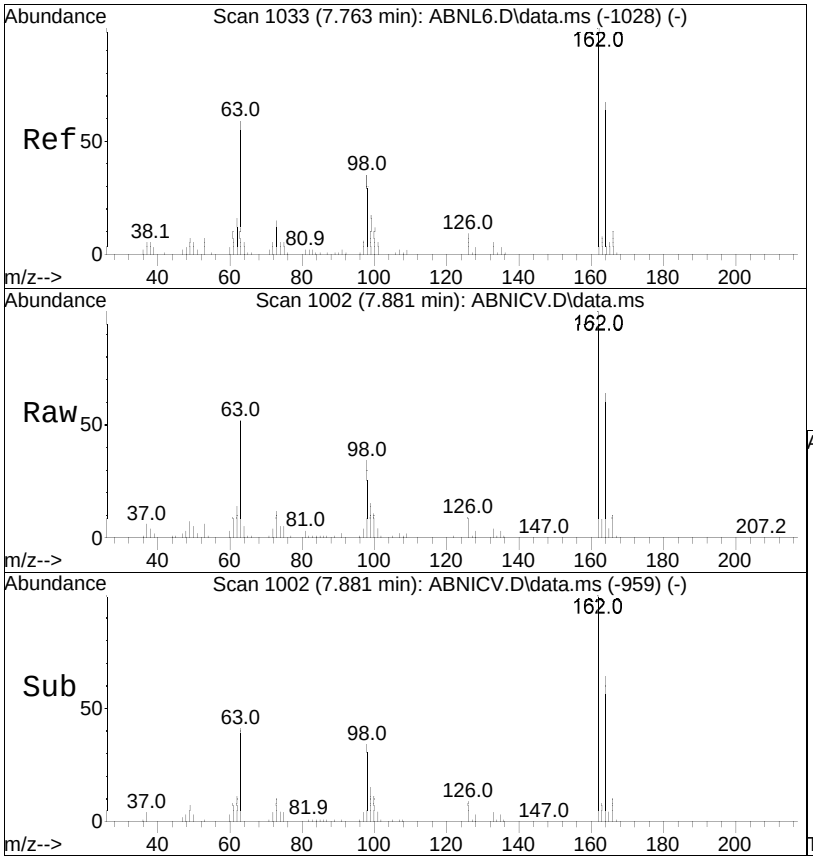


#24
Bis(2-chloroethoxy)methane
Concen: 5.18 ug/ml
RT: 7.810 min Scan# 990
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion: 93 Resp: 143604

Ion	Ratio	Lower	Upper
93	100		
95	32.0	25.8	38.8
123	12.7	10.1	15.1

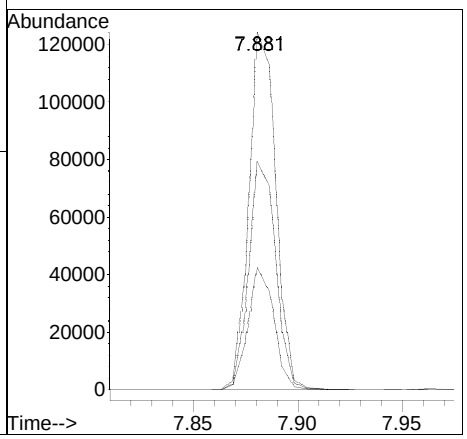


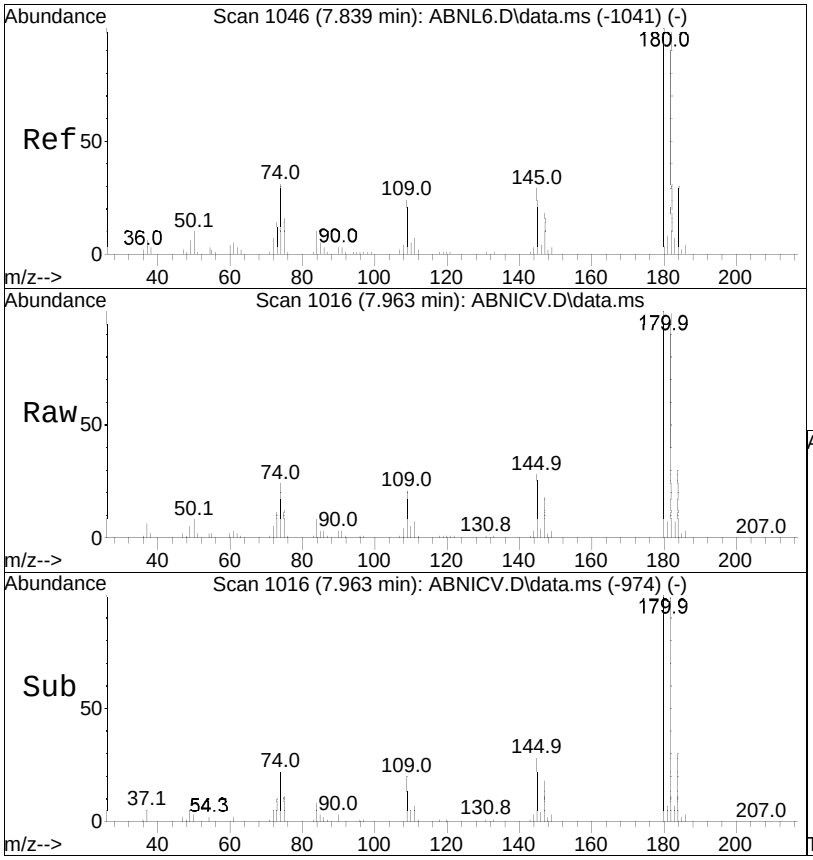


#25
2,4-Dichlorophenol
Concen: 5.15 ug/ml
RT: 7.881 min Scan# 1002
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:162 Resp: 110484

Ion	Ratio	Lower	Upper
162	100		
164	64.0	51.0	76.4
98	33.1	32.2	48.2

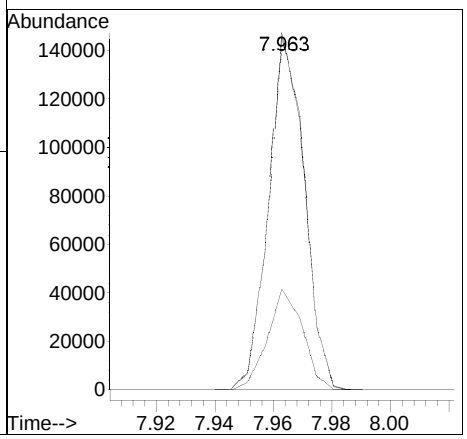


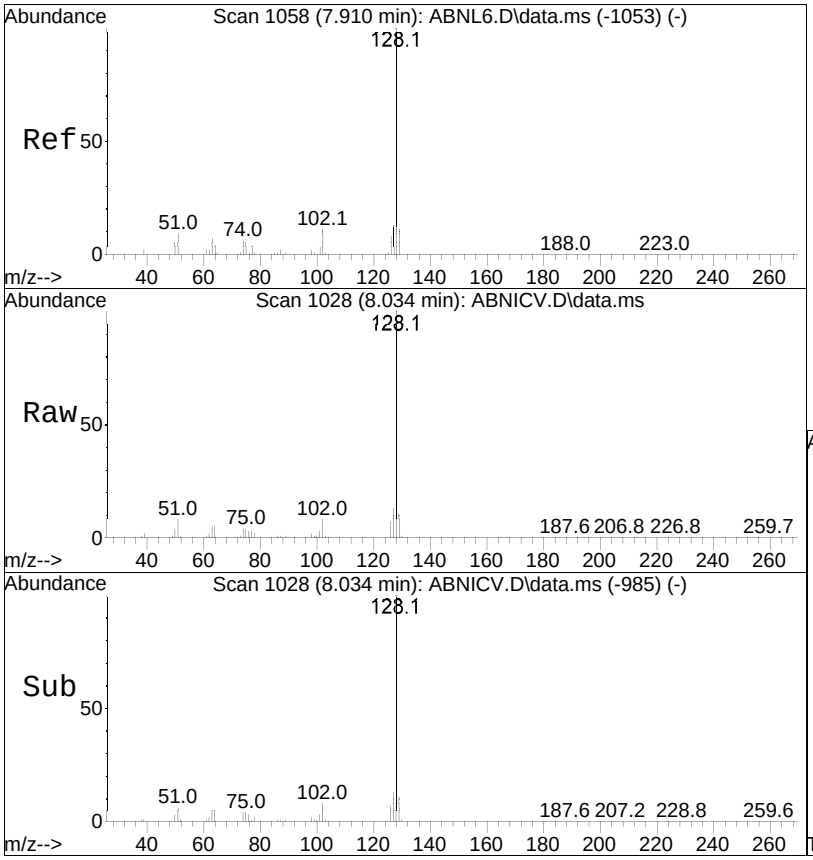


#26
1,2,4-Trichlorobenzene
Concen: 4.97 ug/ml
RT: 7.963 min Scan# 1016
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:180 Resp: 123600

Ion	Ratio	Lower	Upper
180	100		
182	100.4	76.0	114.0
145	28.1	25.7	38.5

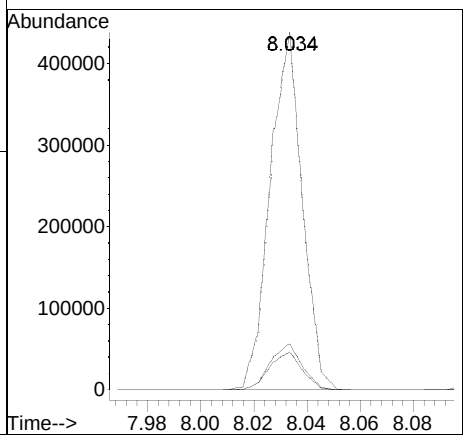


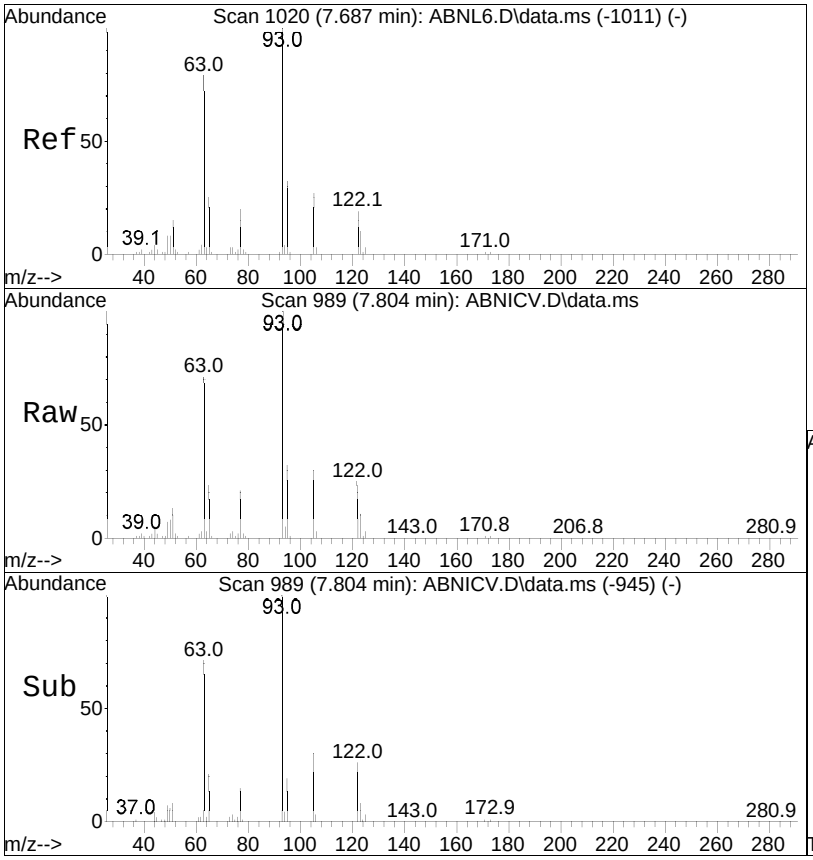


#36
Naphthalene
Concen: 5.00 ug/ml
RT: 8.034 min Scan# 1028
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:128 Resp: 363286

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.7	13.1
127	13.0	10.3	15.5

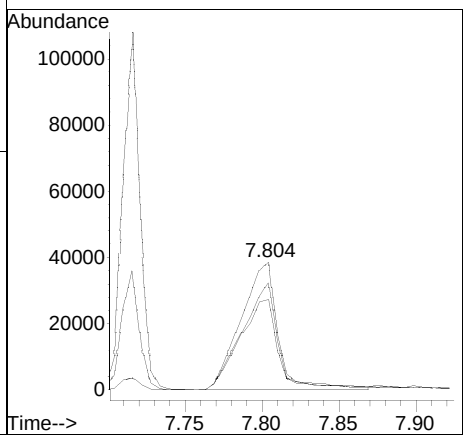


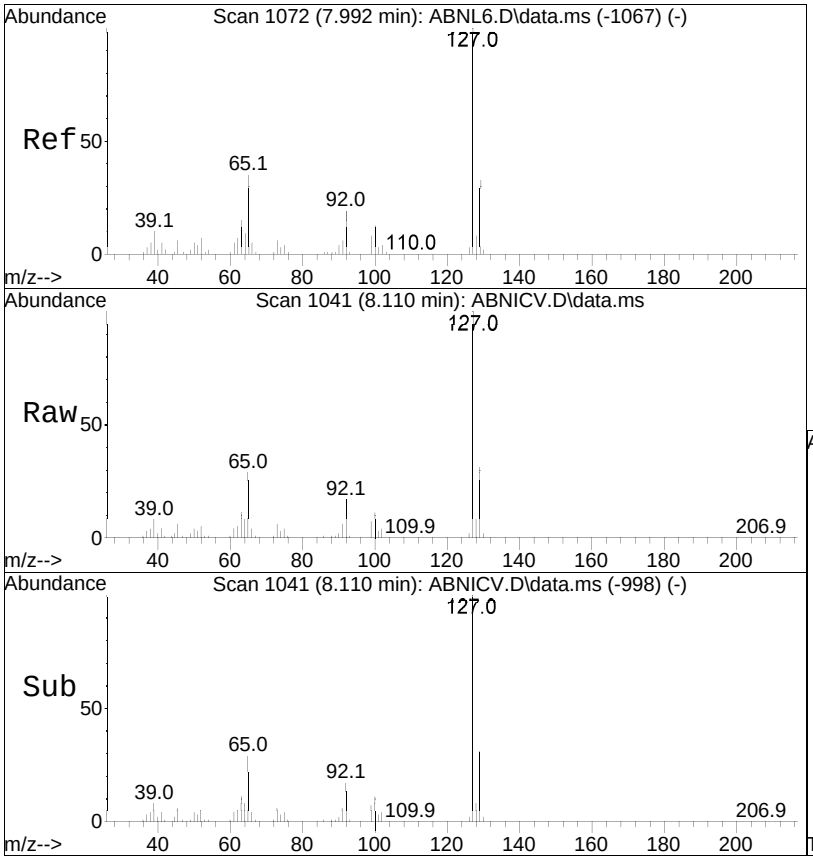


#37
Benzoic Acid
Concen: 4.75 ug/ml
RT: 7.804 min Scan# 989
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:105 Resp: 65401

Ion	Ratio	Lower	Upper
105	100		
122	82.6	59.9	89.9
77	72.9	60.1	90.1

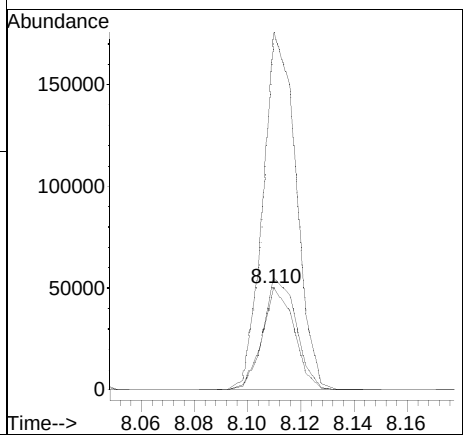


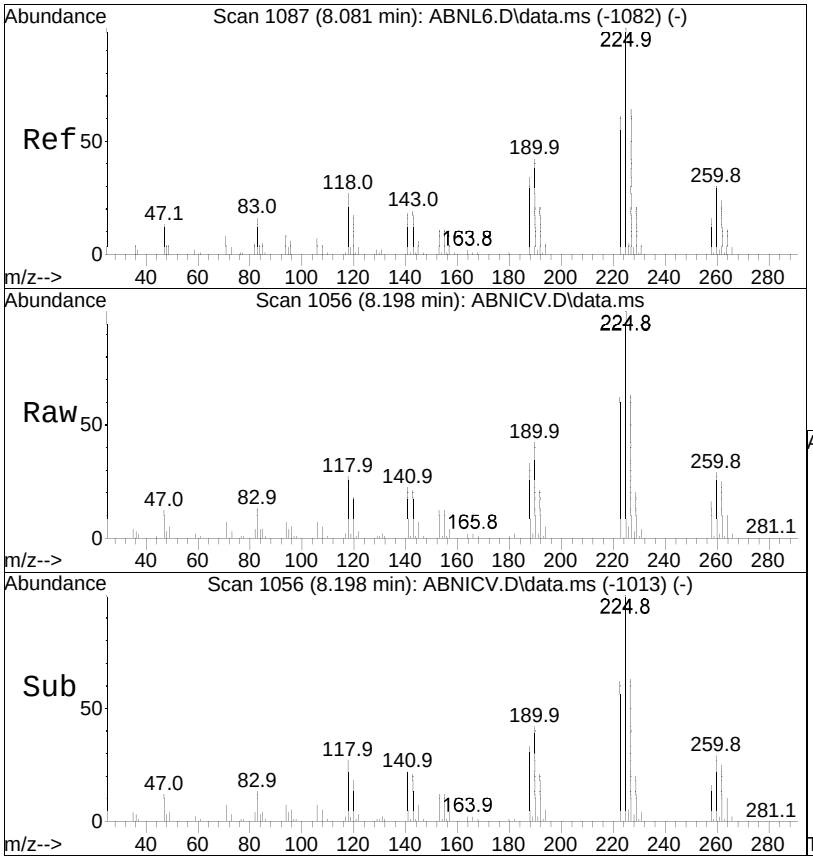


#38
4-Chloroaniline
Concen: 5.18 ug/ml
RT: 8.110 min Scan# 1041
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion: 65 Resp: 42184

Ion	Ratio	Lower	Upper
65	100		
127	357.3	237.6	356.4#
129	112.2	76.3	114.5

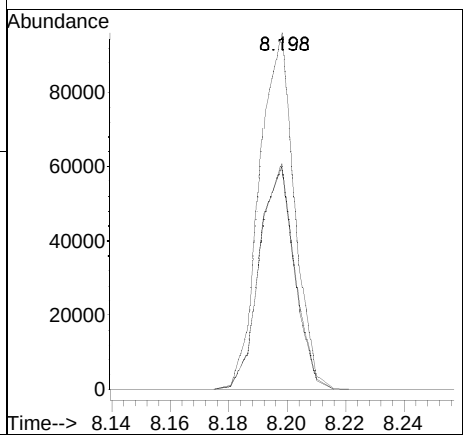


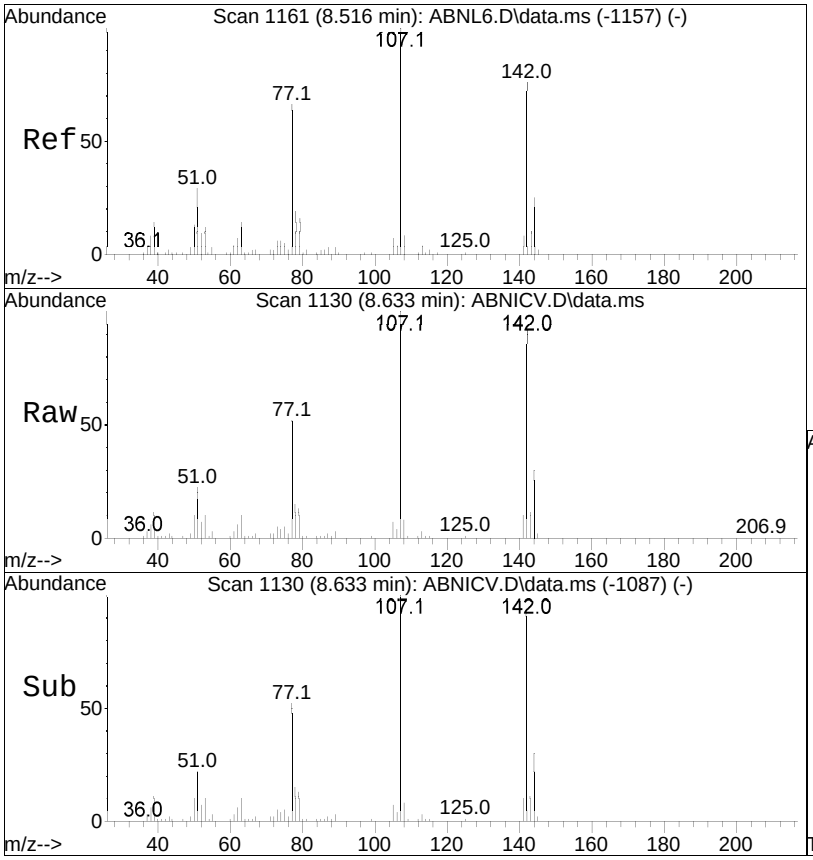


#39
Hexachlorobutadiene
Concen: 5.15 ug/ml
RT: 8.198 min Scan# 1056
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:225 Resp: 79167

Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.3	75.5
227	63.9	52.2	78.2

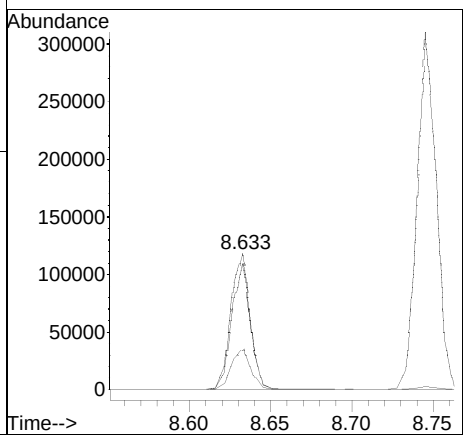


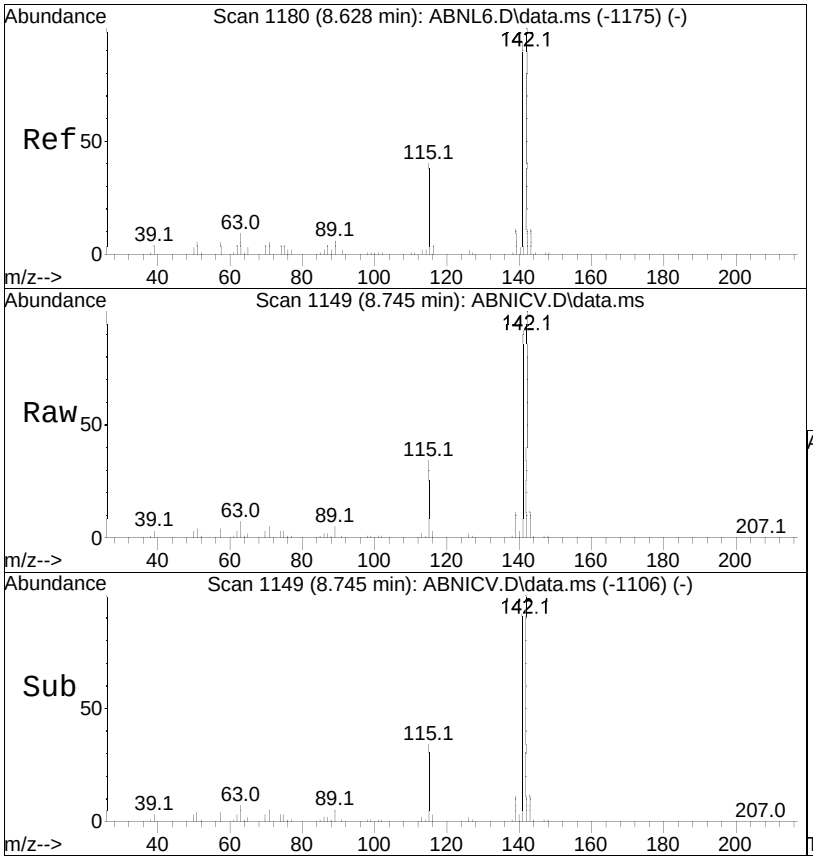


#40
p-Chloro-m-cresol
Concen: 5.12 ug/ml
RT: 8.633 min Scan# 1130
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:107 Resp: 97611

Ion	Ratio	Lower	Upper
107	100		
144	29.8	20.9	31.3
142	88.8	66.1	99.1

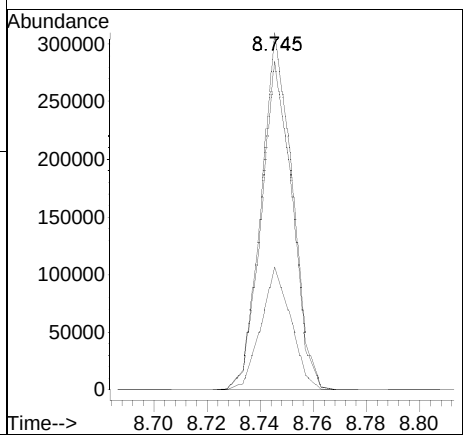


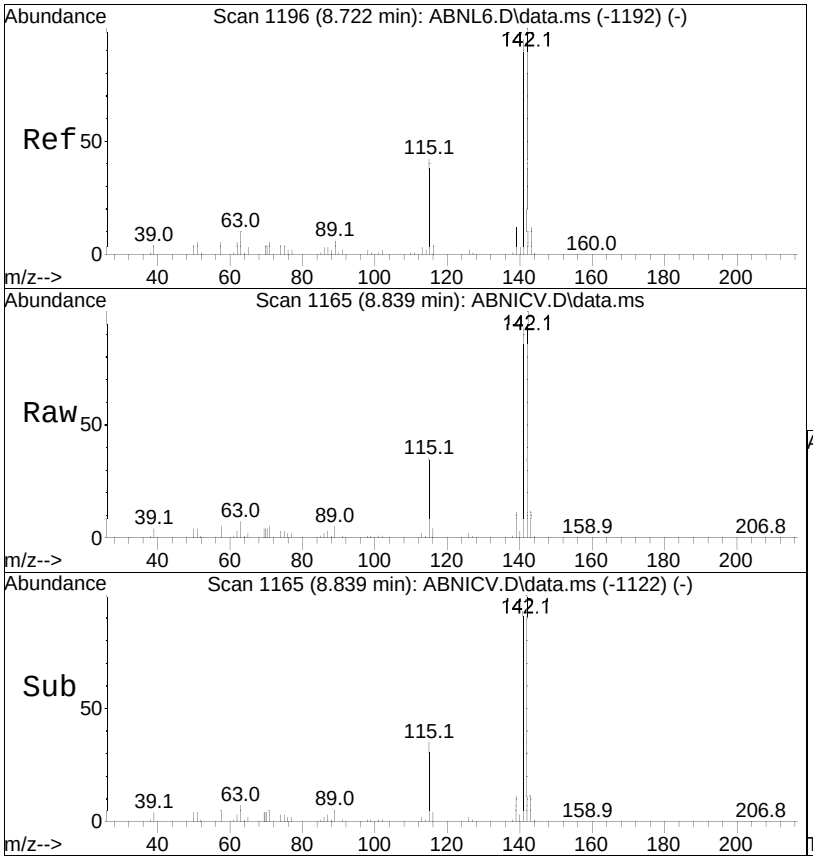


#41
2-Methylnaphthalene
Concen: 5.19 ug/ml
RT: 8.745 min Scan# 1149
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:142 Resp: 251305

Ion	Ratio	Lower	Upper
142	100		
141	91.8	69.6	104.4
115	33.3	26.6	40.0

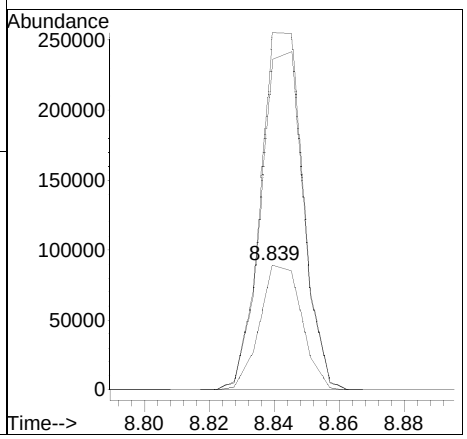


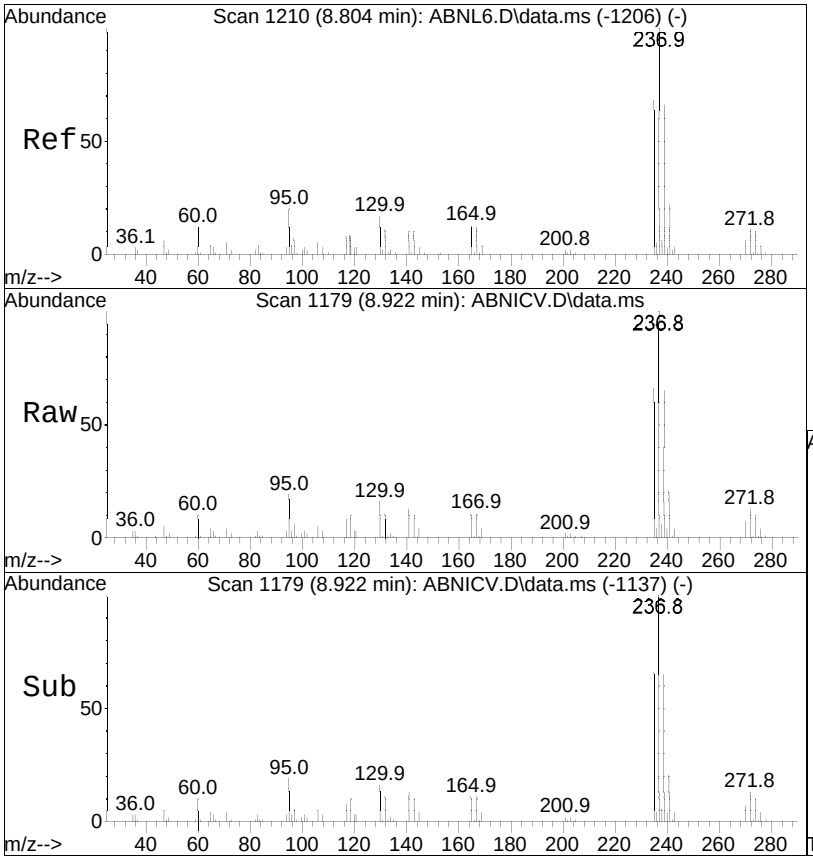


#42
1-Methylnaphthalene
Concen: 5.14 ug/ml
RT: 8.839 min Scan# 1165
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:115 Resp: 80597

Ion	Ratio	Lower	Upper
115	100		
141	272.5	207.8	311.6
142	289.7	226.8	340.2

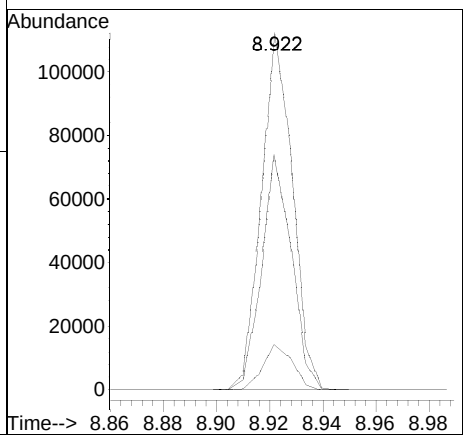


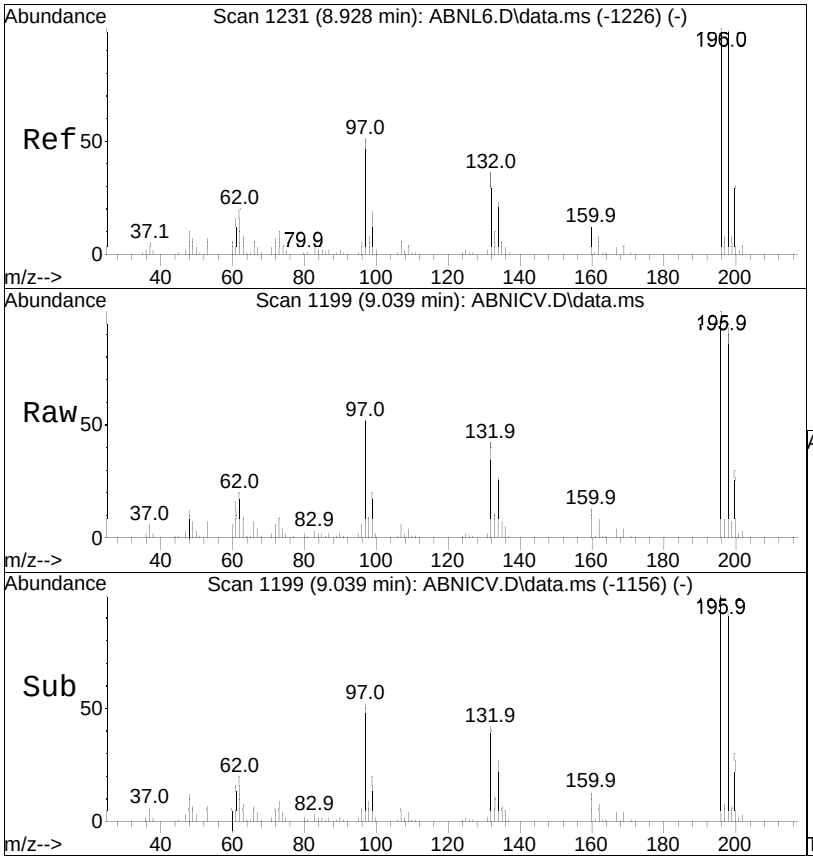


#43
Hexachlorocyclopentadiene
Concen: 5.39 ug/ml
RT: 8.922 min Scan# 1179
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:237 Resp: 90794

Ion	Ratio	Lower	Upper
237	100		
235	63.6	49.7	74.5
272	12.3	9.8	14.6

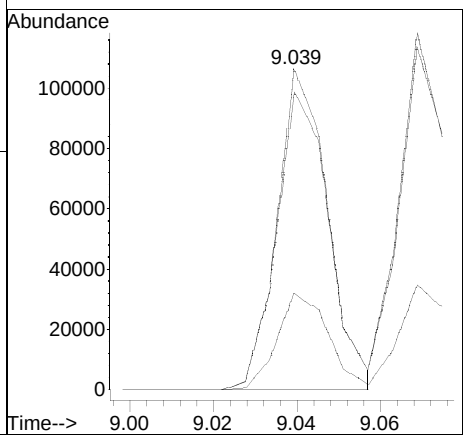


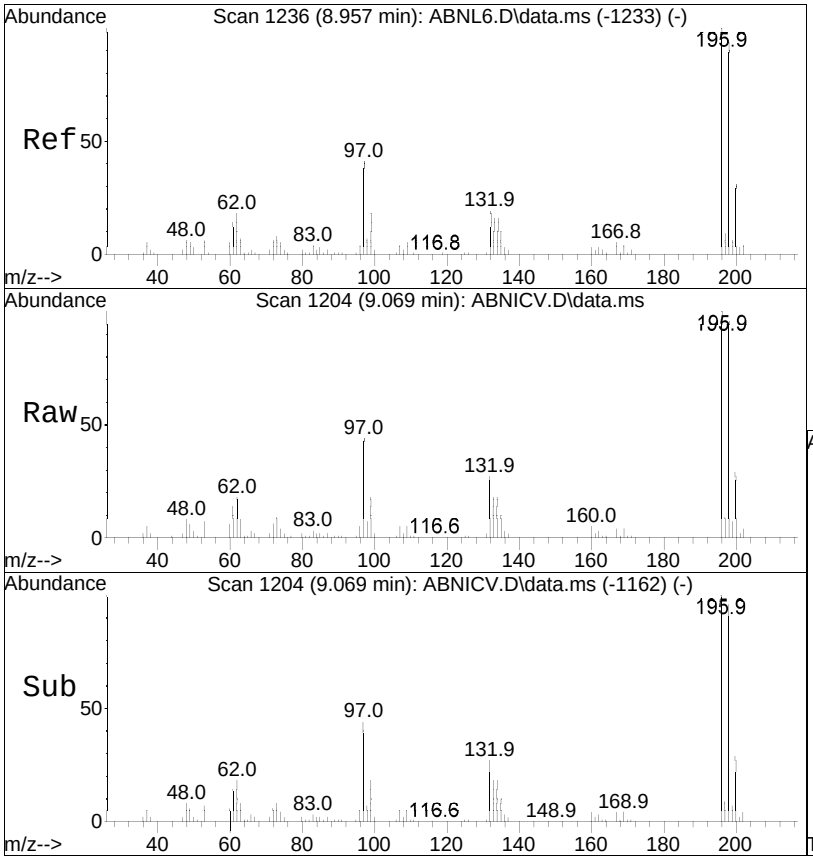


#44
2,4,6-Trichlorophenol
Concen: 5.05 ug/ml
RT: 9.039 min Scan# 1199
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:196 Resp: 89438

Ion	Ratio	Lower	Upper
196	100		
198	96.1	77.5	116.3
200	30.8	23.8	35.6

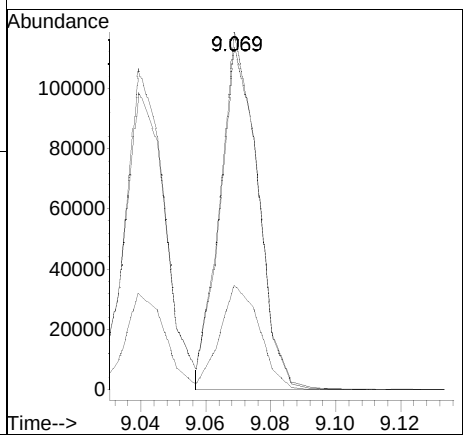


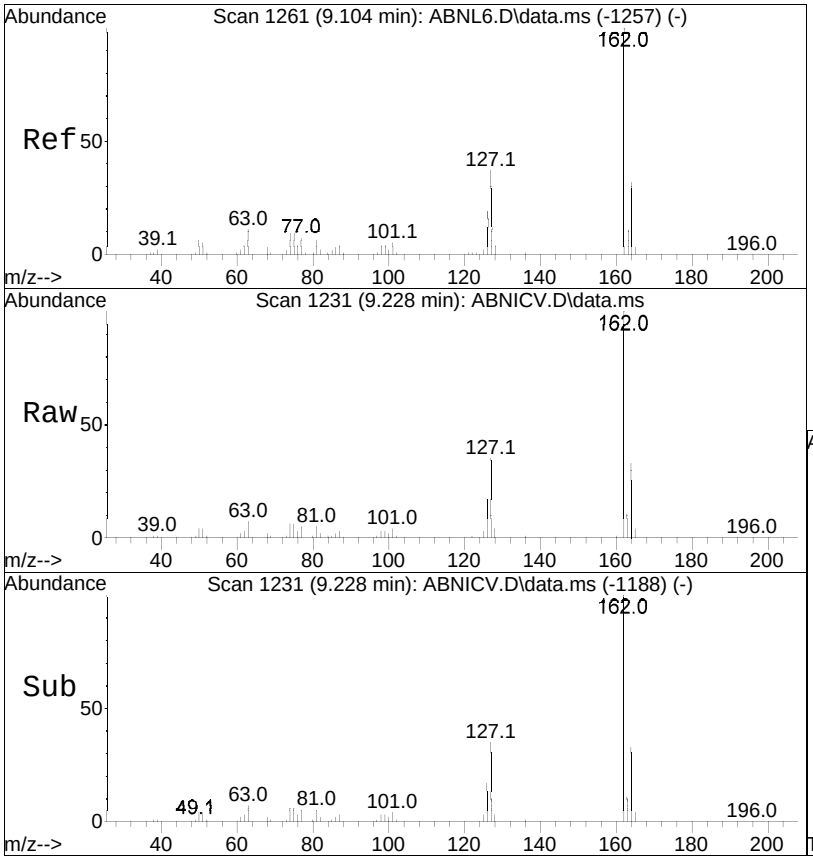


#45
2,4,5-Trichlorophenol
Concen: 5.15 ug/ml
RT: 9.069 min Scan# 1204
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:196 Resp: 94454

Ion	Ratio	Lower	Upper
196	100		
200	31.3	25.4	38.0
198	99.0	78.0	117.0

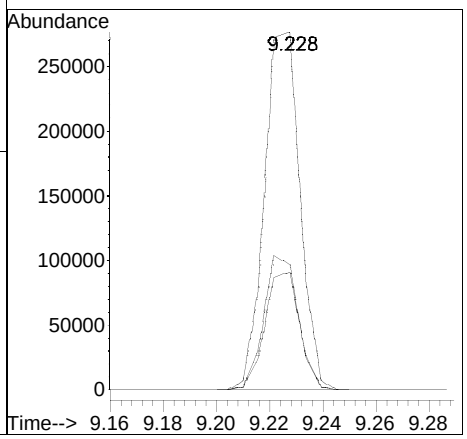


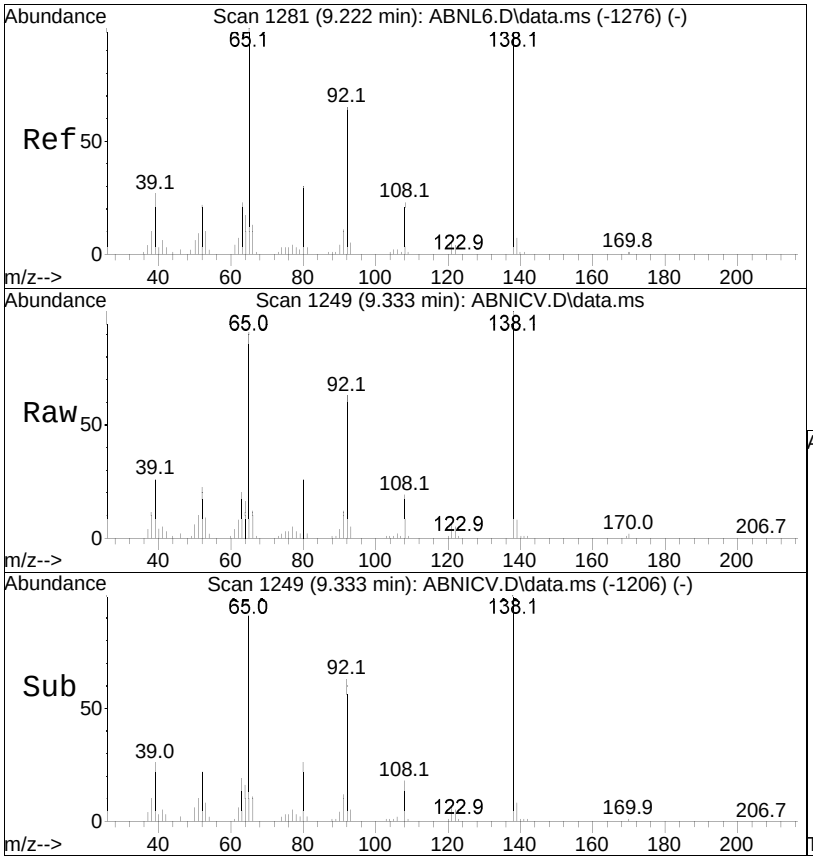


#47
2-Chloronaphthalene
Concen: 5.05 ug/ml
RT: 9.228 min Scan# 1231
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:162 Resp: 254917

Ion	Ratio	Lower	Upper
162	100		
127	36.2	32.2	48.4
164	32.3	25.7	38.5

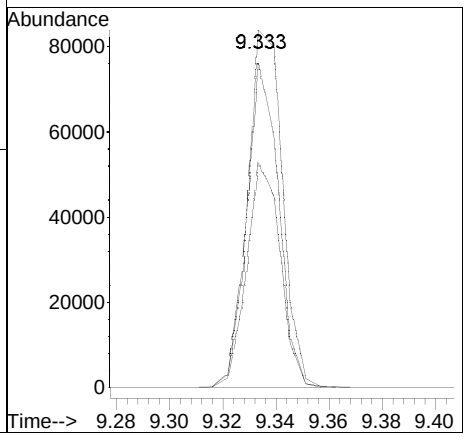


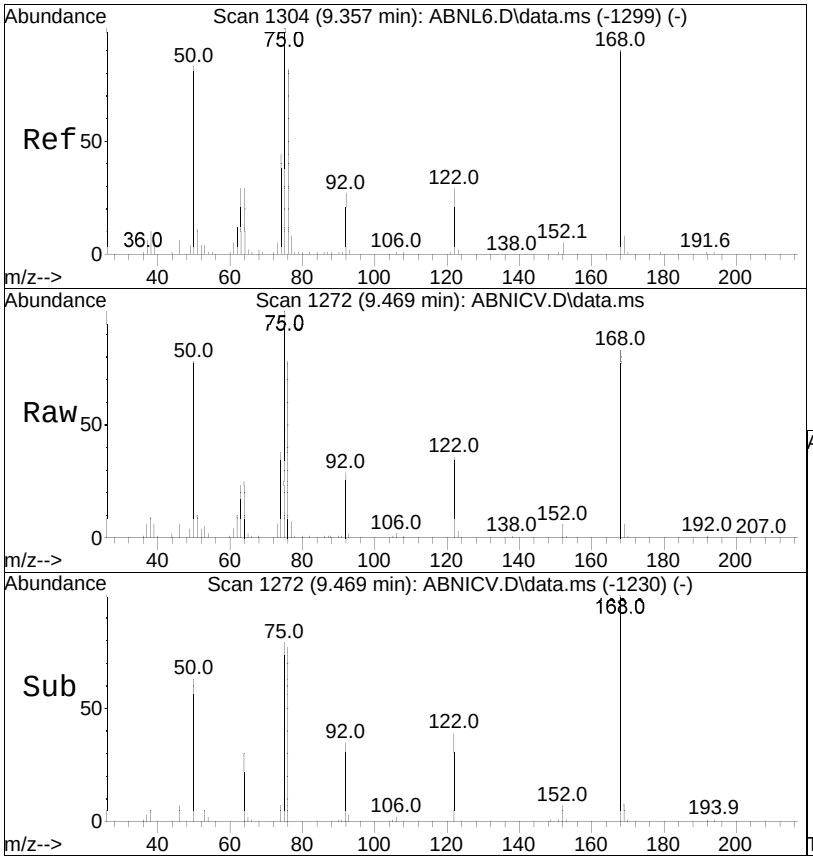


#48
2-Nitroaniline
Concen: 5.27 ug/ml
RT: 9.333 min Scan# 1249
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:138 Resp: 75716

Ion	Ratio	Lower	Upper
138	100		
92	60.7	53.5	80.3
65	83.3	86.3	129.5#

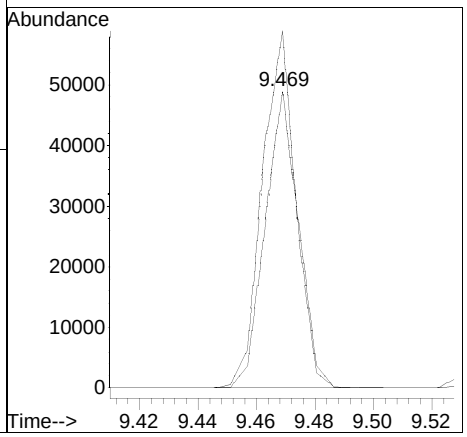


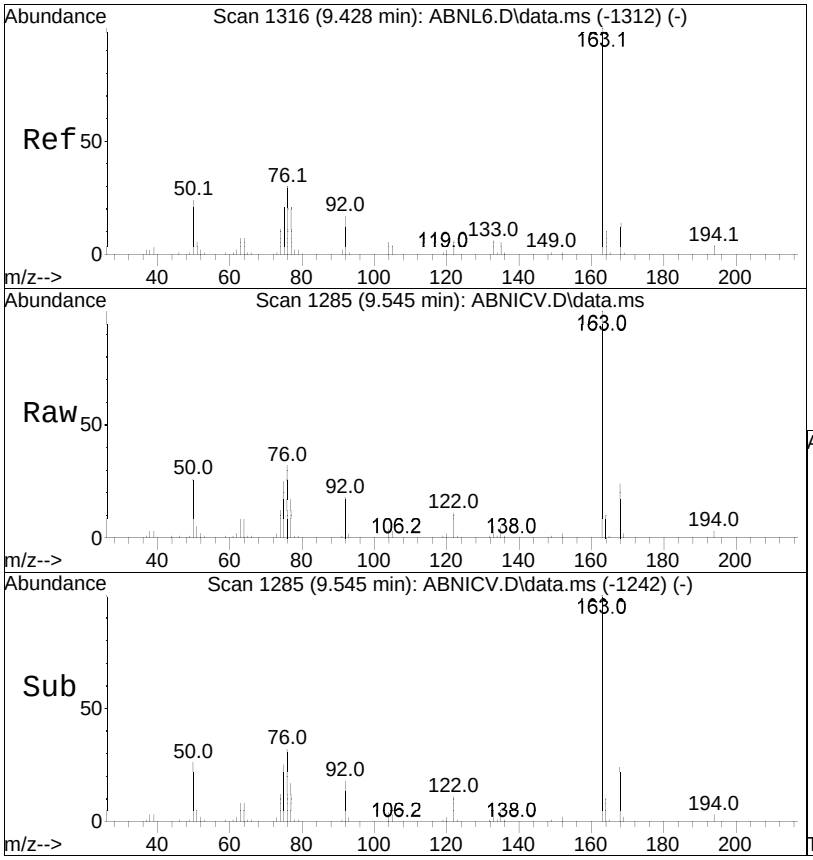


#49
1,4-Dinitrobenzene
Concen: 5.26 ug/ml
RT: 9.469 min Scan# 1272
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:168 Resp: 38619

Ion	Ratio	Lower	Upper
168	100		
75	120.8	121.8	182.8#

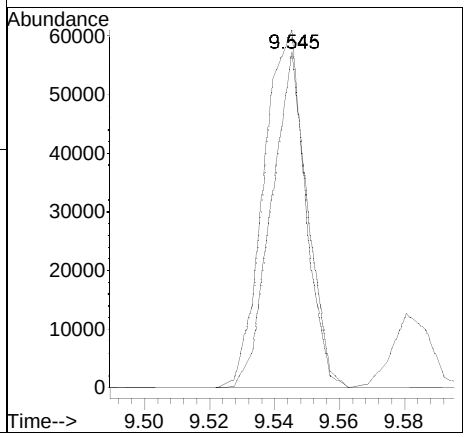


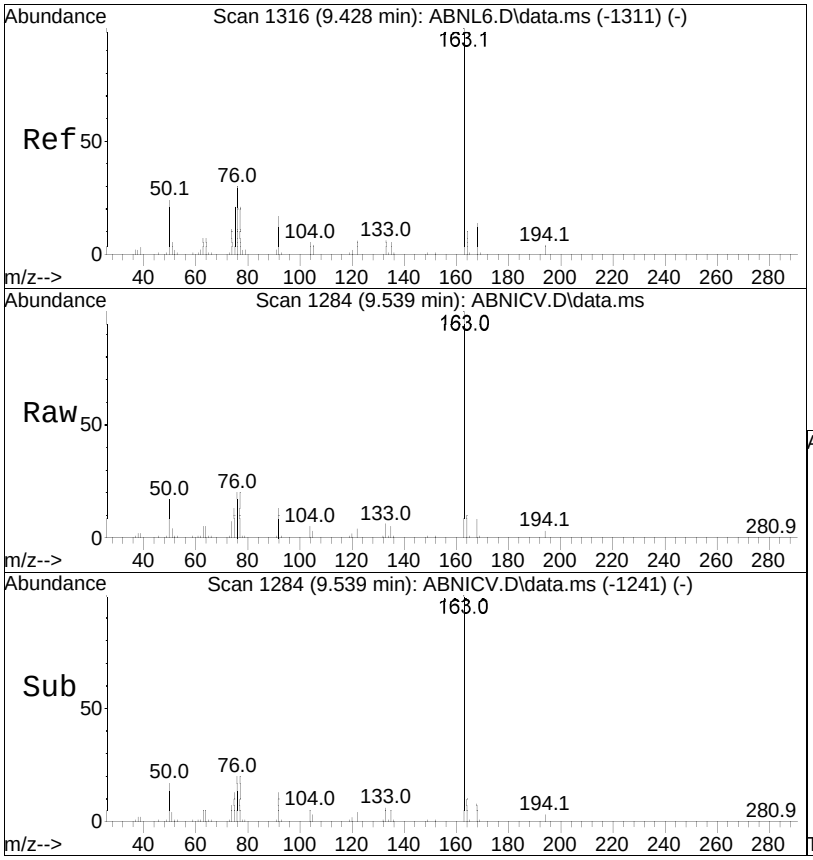


#50
1,3-Dinitrobenzene
Concen: 5.50 ug/ml
RT: 9.545 min Scan# 1285
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:168 Resp: 44206

Ion	Ratio	Lower	Upper
168	100		
75	121.7	22.7	34.1#

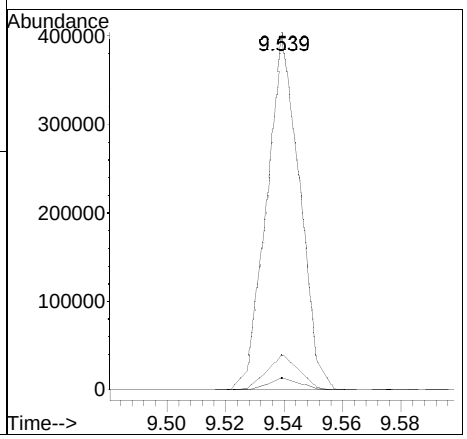


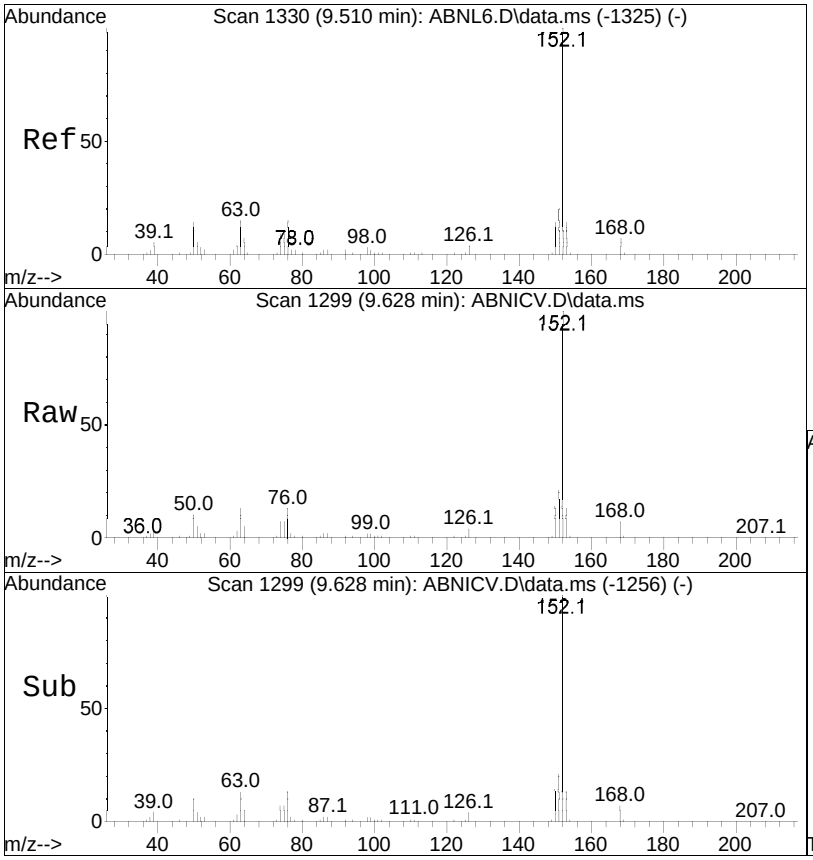


#51
Dimethyl phthalate
Concen: 5.29 ug/ml
RT: 9.539 min Scan# 1284
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:163 Resp: 311435

Ion	Ratio	Lower	Upper
163	100		
194	3.3	3.5	5.3#
164	9.8	7.9	11.9

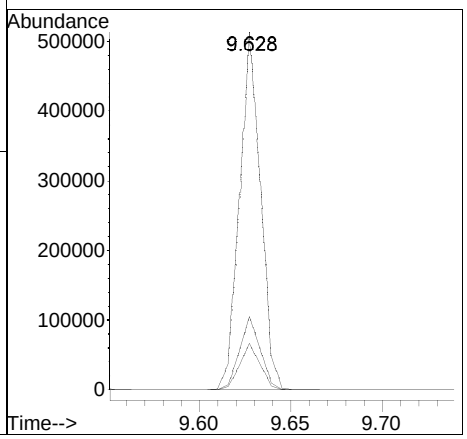


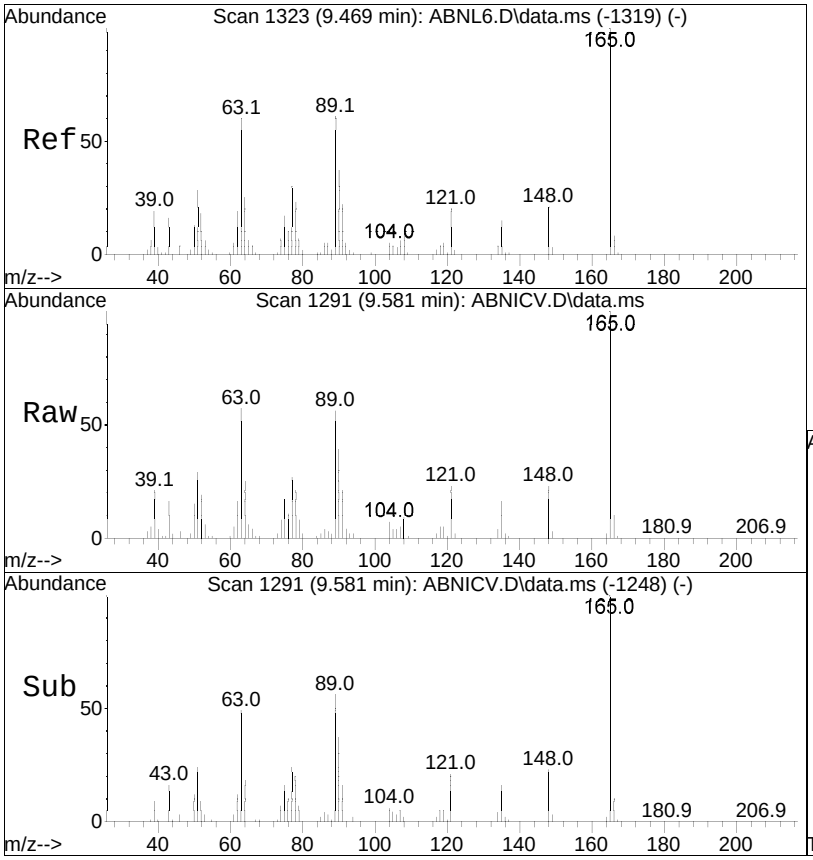


#52
Acenaphthylene
Concen: 5.36 ug/ml
RT: 9.628 min Scan# 1299
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:152 Resp: 403177

Ion	Ratio	Lower	Upper
152	100		
151	20.5	15.8	23.6
153	12.9	10.5	15.7

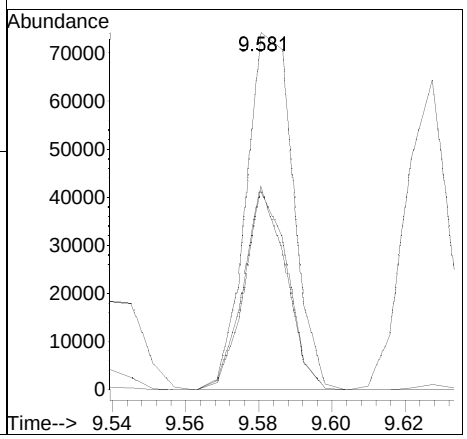


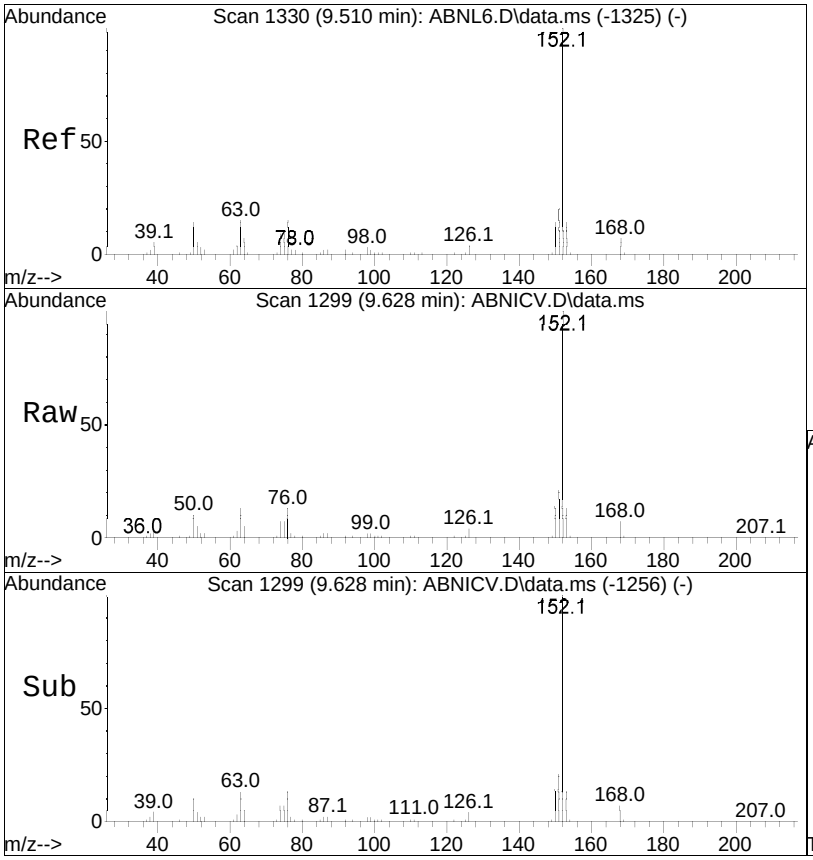


#53
2,6-Dinitrotoluene
Concen: 5.57 ug/ml
RT: 9.581 min Scan# 1291
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:165 Resp: 66602

Ion	Ratio	Lower	Upper
165	100		
89	51.0	54.2	81.2#
63	51.1	64.2	96.2#

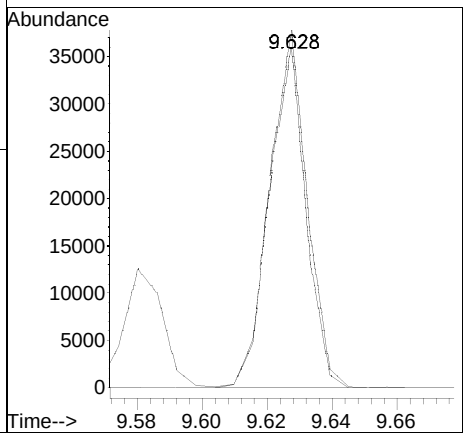


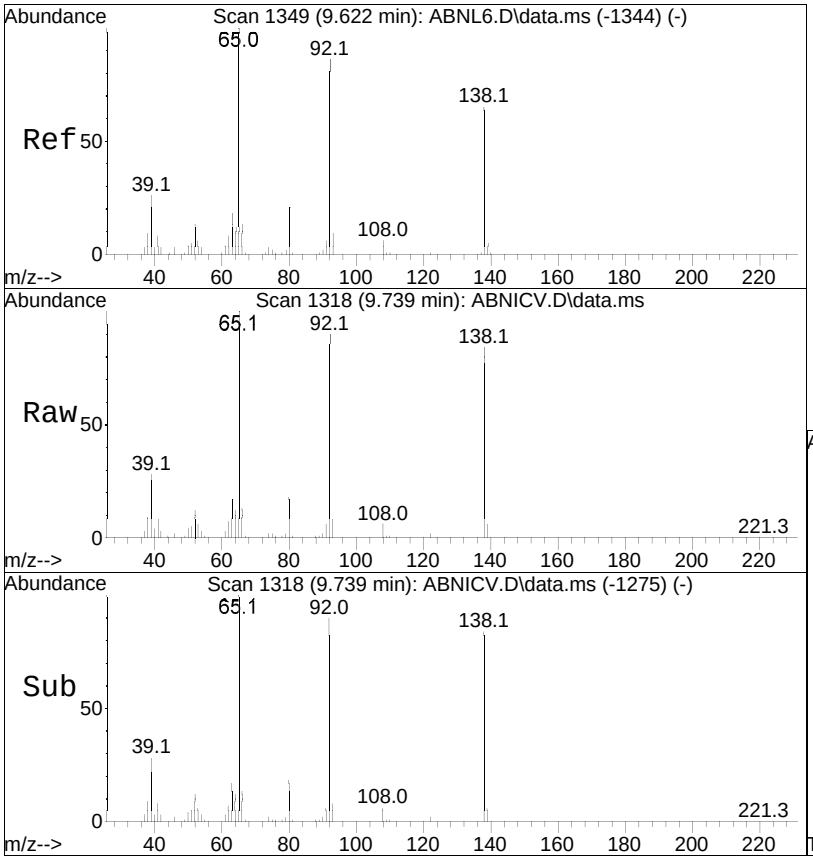


#54
1,2-Dinitrobenzene
Concen: 5.41 ug/ml
RT: 9.628 min Scan# 1299
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:168 Resp: 28077

Ion	Ratio	Lower	Upper
168	100		
75	107.0	30.9	46.3#

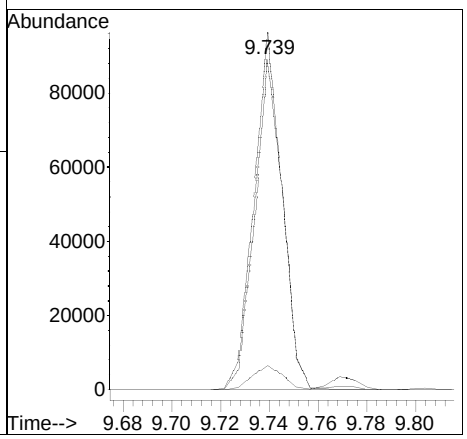


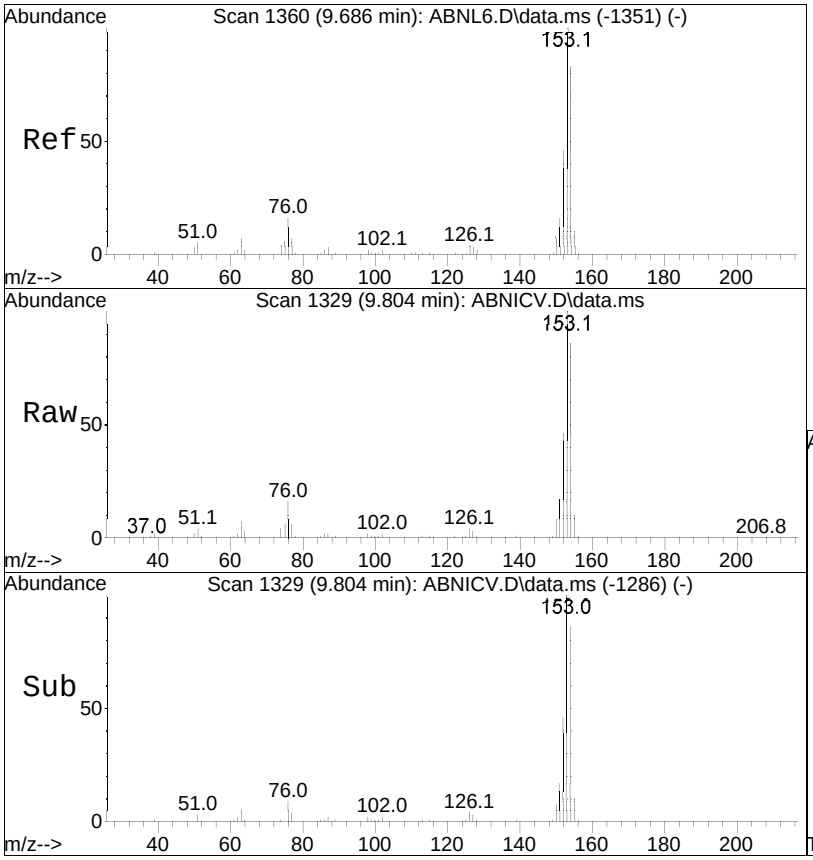


#64
3-Nitroaniline
Concen: 5.41 ug/ml
RT: 9.739 min Scan# 1318
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:138 Resp: 70653

Ion	Ratio	Lower	Upper
138	100		
92	107.9	93.4	140.2
108	8.2	9.5	14.3#

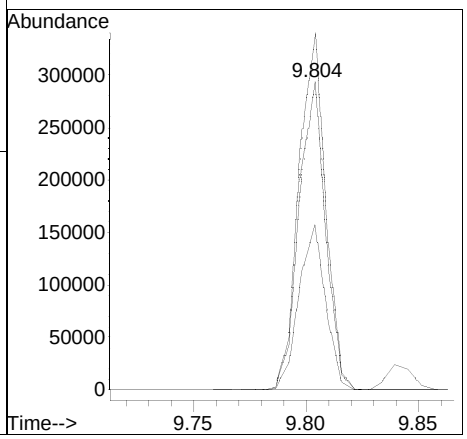


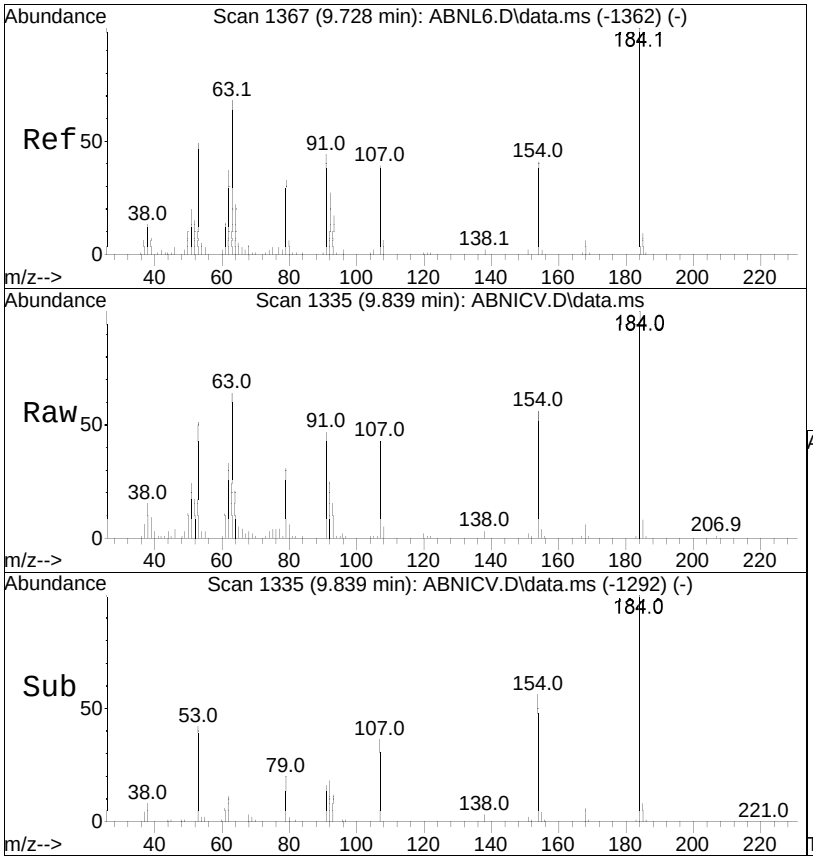


#65
Acenaphthene
Concen: 5.14 ug/ml
RT: 9.804 min Scan# 1329
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:154 Resp: 240578

Ion	Ratio	Lower	Upper
154	100		
153	116.2	85.3	127.9
152	54.2	41.4	62.0

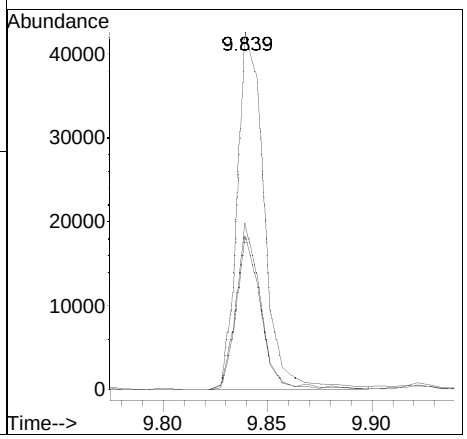


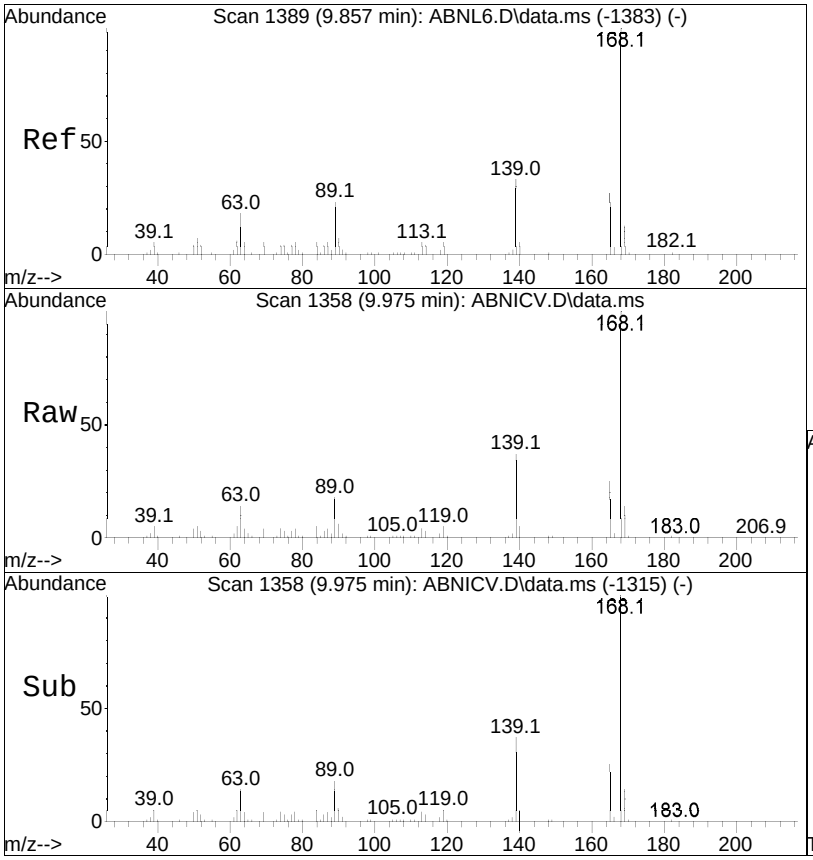


#66
2,4-Dinitrophenol
Concen: 4.89 ug/ml
RT: 9.839 min Scan# 1335
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:184 Resp: 38145

Ion	Ratio	Lower	Upper
184	100		
107	38.9	37.7	56.5
91	43.6	46.3	69.5#

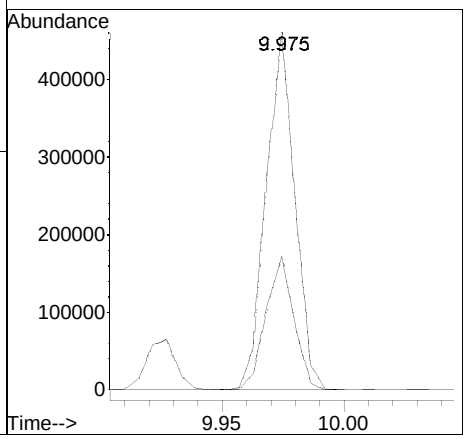


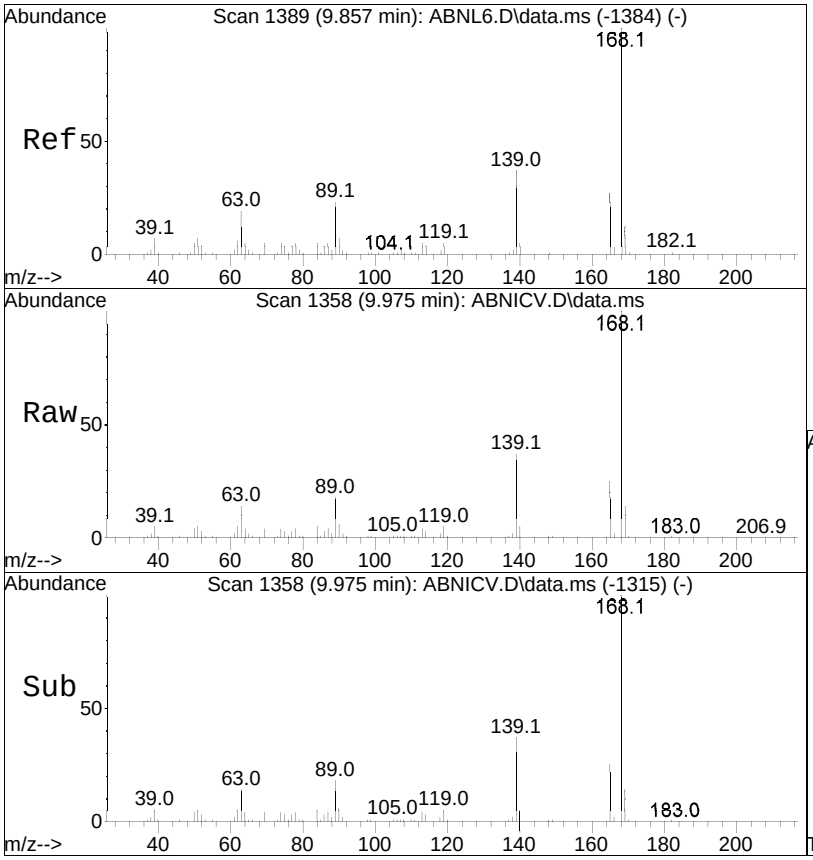


#67
Dibenzofuran
Concen: 4.92 ug/ml
RT: 9.975 min Scan# 1358
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:168 Resp: 372461

Ion	Ratio	Lower	Upper
168	100		
139	36.8	31.4	47.2

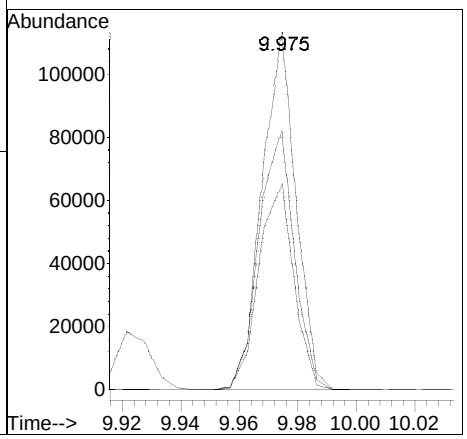


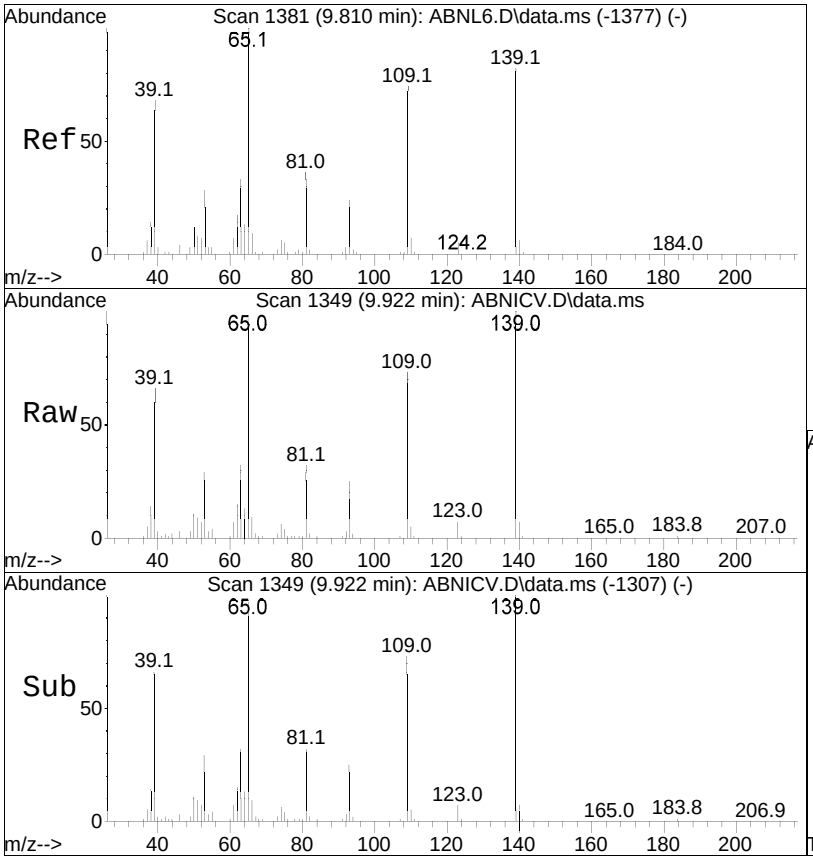


#68
2,4-Dinitrotoluene
Concen: 5.33 ug/ml
RT: 9.975 min Scan# 1358
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:165 Resp: 90317

Ion	Ratio	Lower	Upper
165	100		
89	75.8	72.0	108.0
63	60.3	52.7	79.1

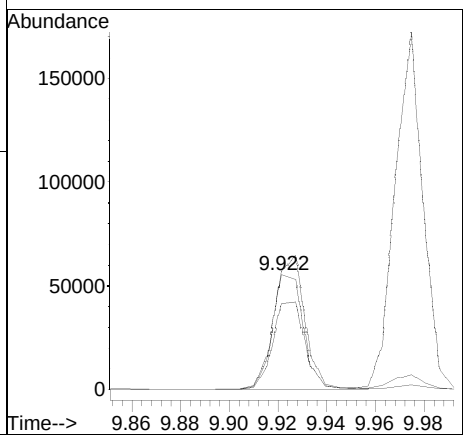


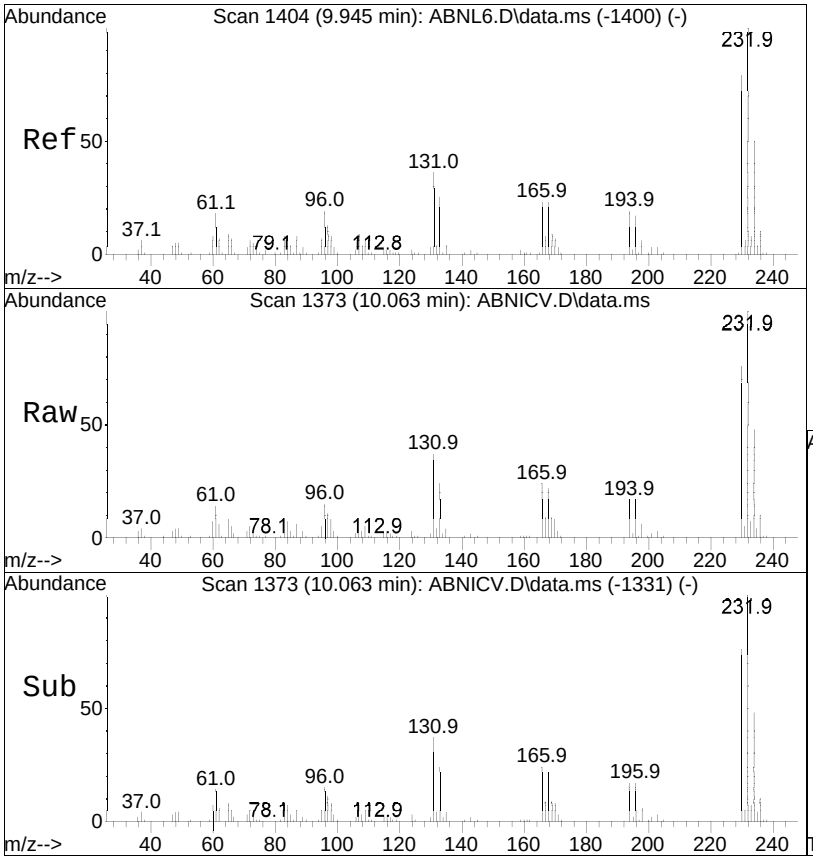


#69
4-Nitrophenol
Concen: 5.17 ug/ml
RT: 9.922 min Scan# 1349
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion: 65 Resp: 50008

Ion	Ratio	Lower	Upper
65	100		
109	77.7	47.4	71.2#
139	111.9	76.6	115.0

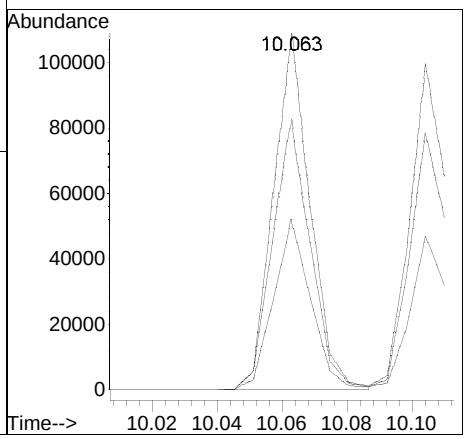


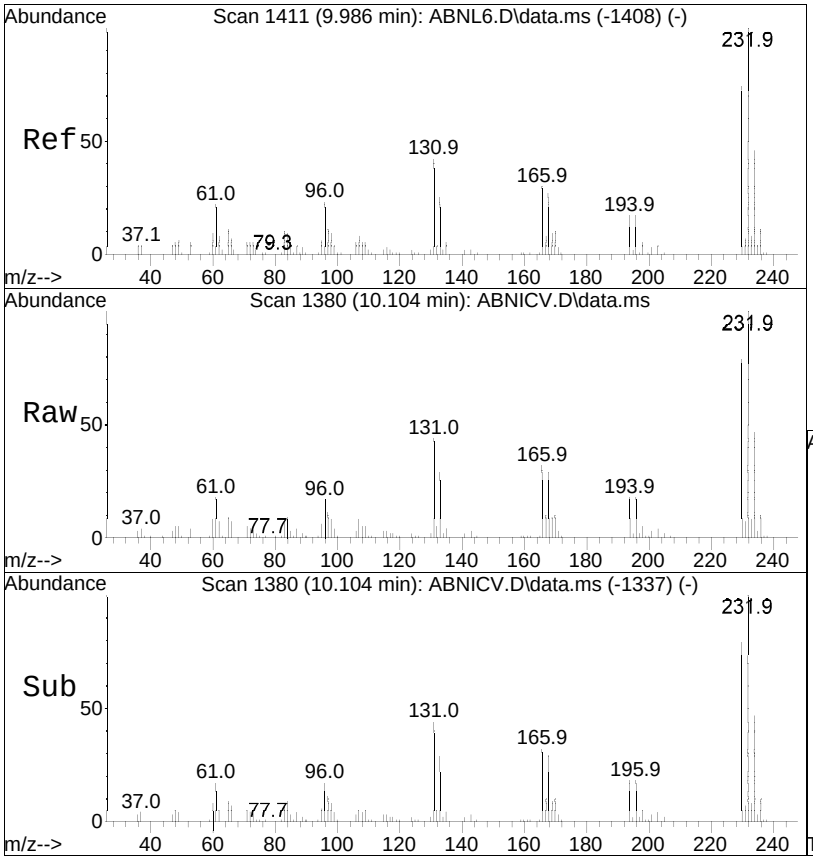


#70
2,3,5,6-Tetrachlorophenol
Concen: 5.40 ug/ml
RT: 10.063 min Scan# 1373
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:232 Resp: 85379

Ion	Ratio	Lower	Upper
232	100		
230	78.0	64.2	96.4
234	48.4	38.1	57.1

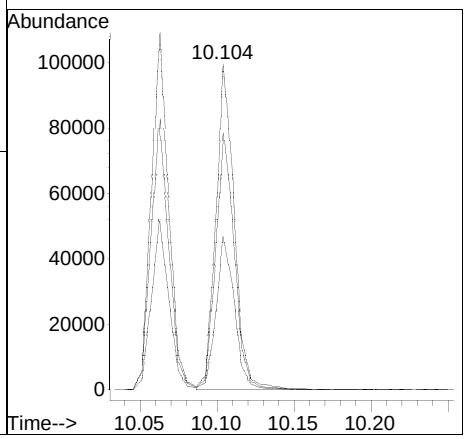


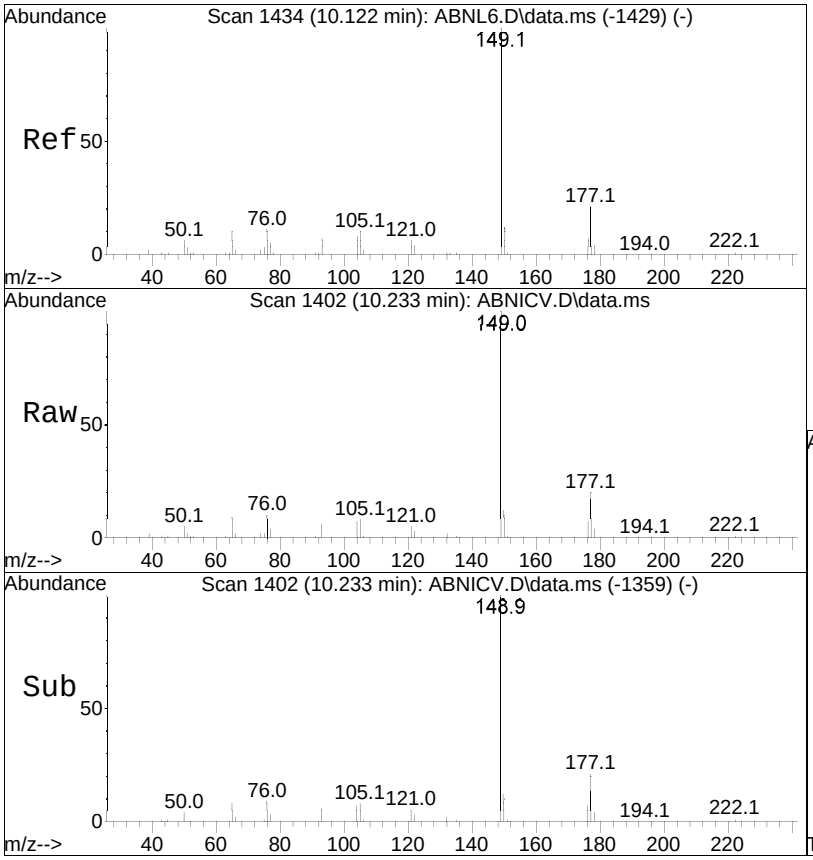


#71
2,3,4,6-Tetrachlorophenol
Concen: 5.36 ug/ml
RT: 10.104 min Scan# 1380
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:232 Resp: 83604

Ion	Ratio	Lower	Upper
232	100		
230	80.2	61.8	92.8
234	47.1	36.2	54.2

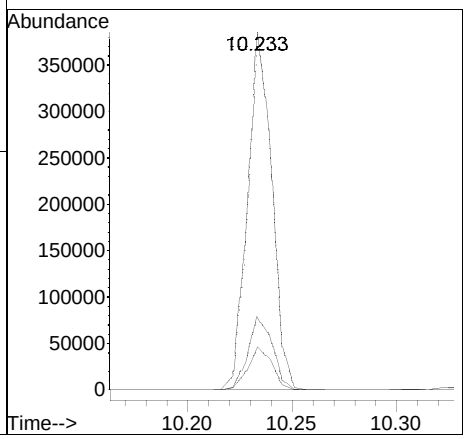


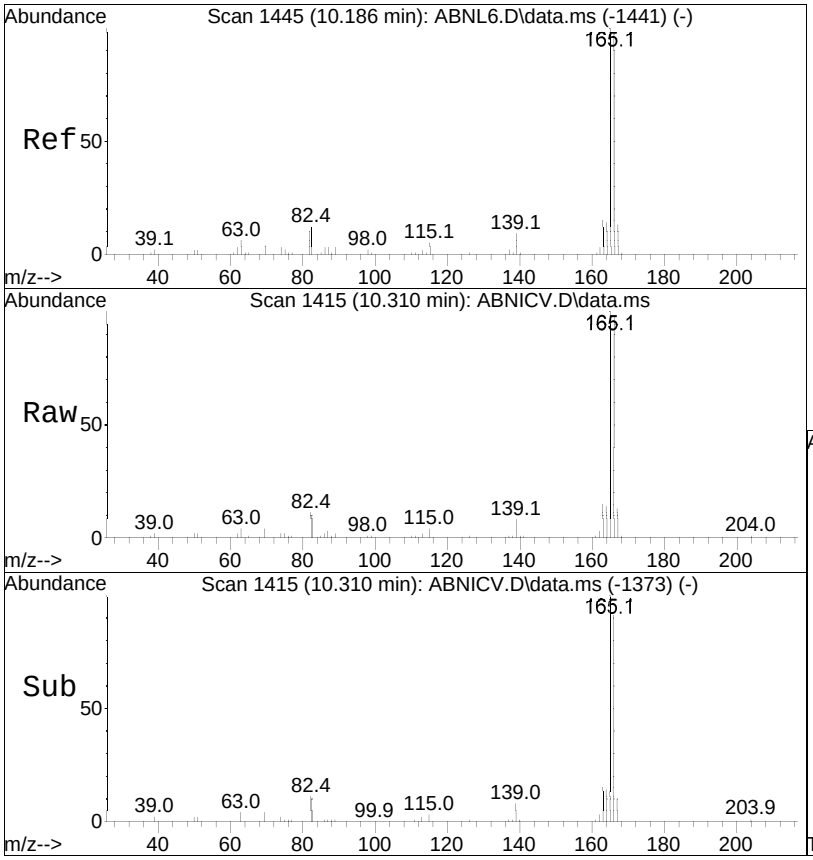


#72
Diethyl phthalate
Concen: 5.00 ug/ml
RT: 10.233 min Scan# 1402
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:149 Resp: 307265

Ion	Ratio	Lower	Upper
149	100		
177	20.9	16.1	24.1
150	12.1	9.4	14.2

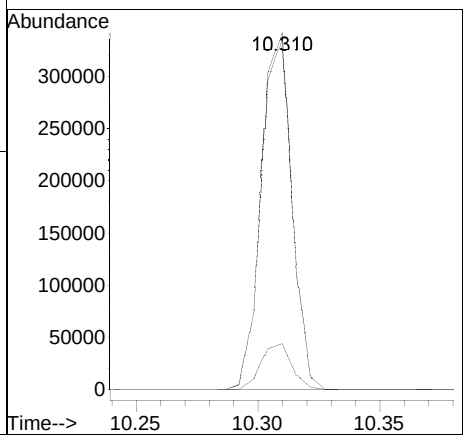


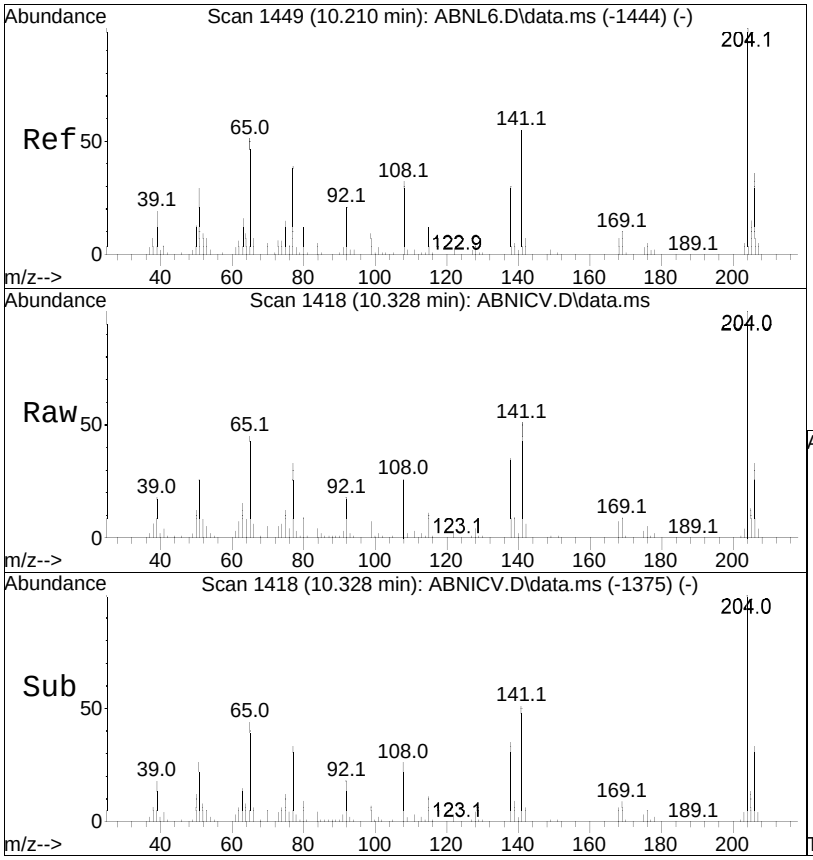


#73
Fluorene
Concen: 4.98 ug/ml
RT: 10.310 min Scan# 1415
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:166 Resp: 294821

Ion	Ratio	Lower	Upper
166	100		
165	101.7	76.2	114.2
167	13.4	10.6	15.8

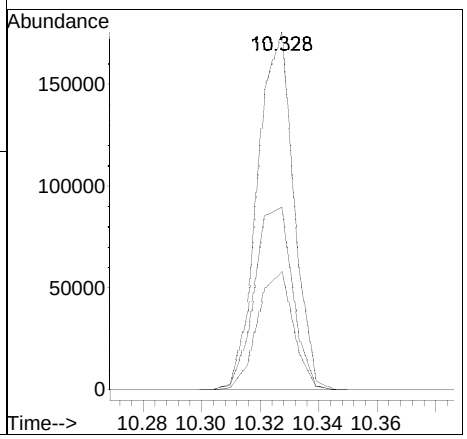


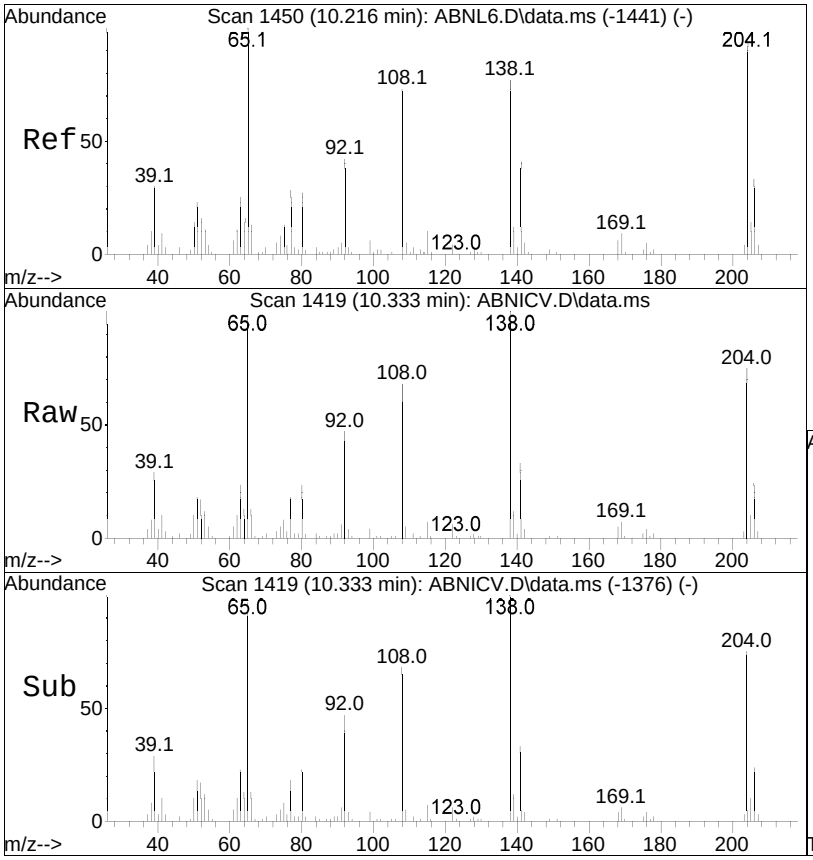


#74
4-Chlorophenyl phenyl ether
Concen: 4.94 ug/ml
RT: 10.328 min Scan# 1418
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:204 Resp: 150045

Ion	Ratio	Lower	Upper
204	100		
206	33.1	25.8	38.6
141	54.0	53.6	80.4

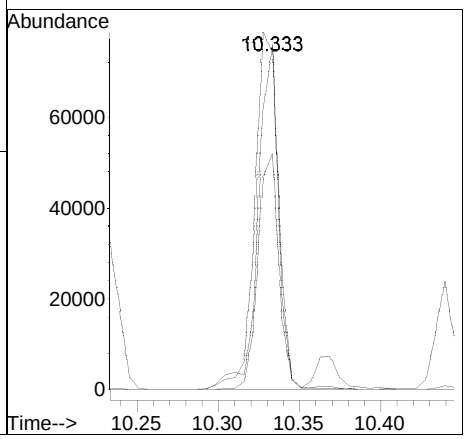


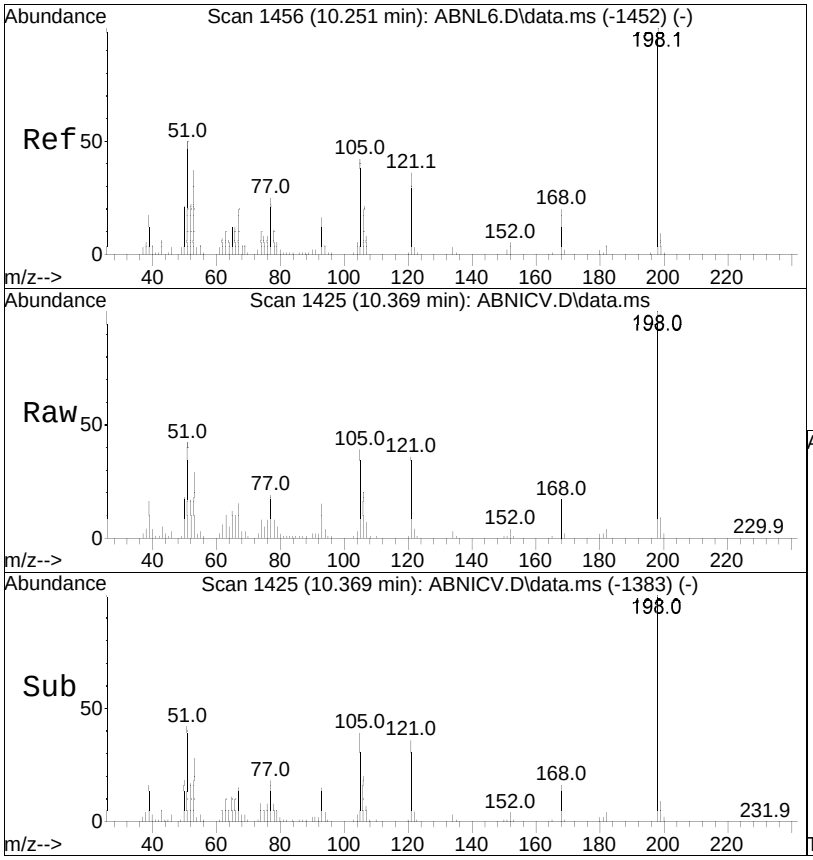


#75
4-Nitroaniline
Concen: 5.13 ug/ml
RT: 10.333 min Scan# 1419
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:138 Resp: 68272

Ion	Ratio	Lower	Upper
138	100		
108	68.0	52.1	78.1
65	112.7	115.0	172.6#

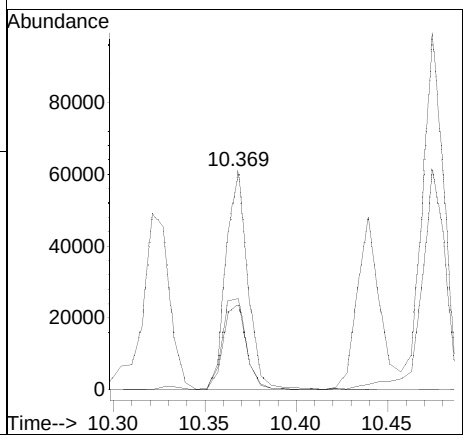


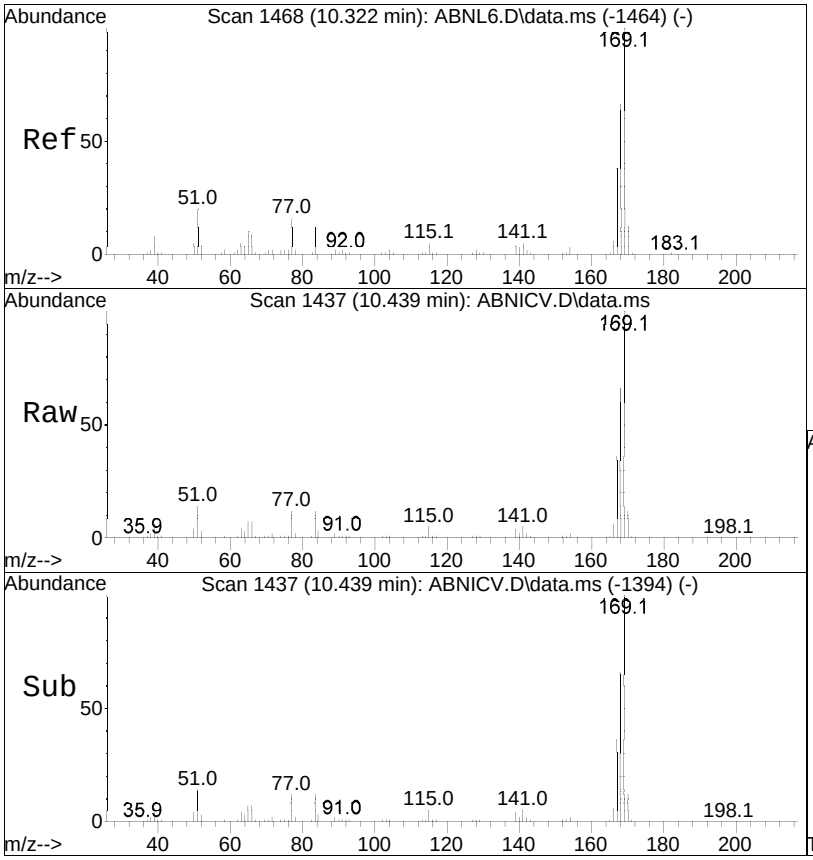


#76
4,6-Dinitro-o-cresol
Concen: 4.55 ug/ml
RT: 10.369 min Scan# 1425
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:198 Resp: 51882

Ion	Ratio	Lower	Upper
198	100		
51	44.5	76.0	114.0#
105	41.8	45.6	68.4#

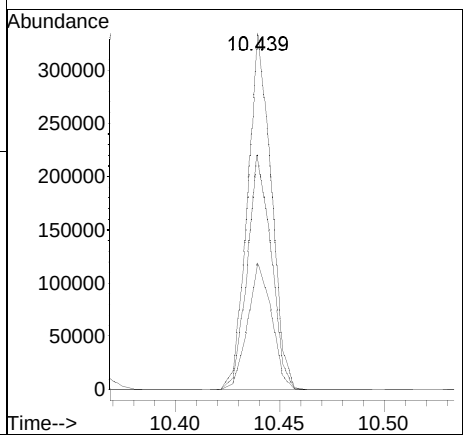


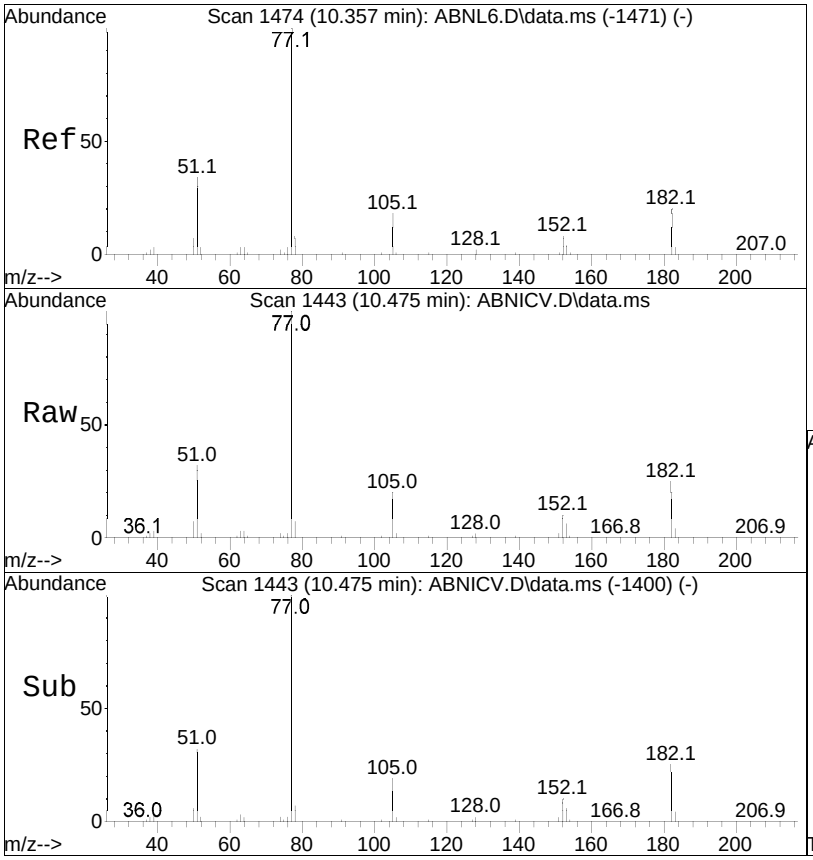


#77
NDPA/DPA
Concen: 5.18 ug/ml
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:169 Resp: 264255

Ion	Ratio	Lower	Upper
169	100		
168	66.4	54.0	81.0
167	36.1	28.6	42.8

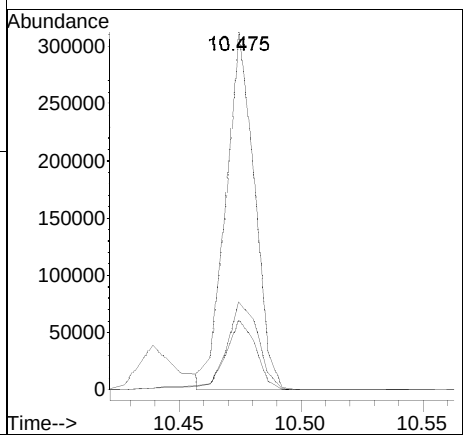


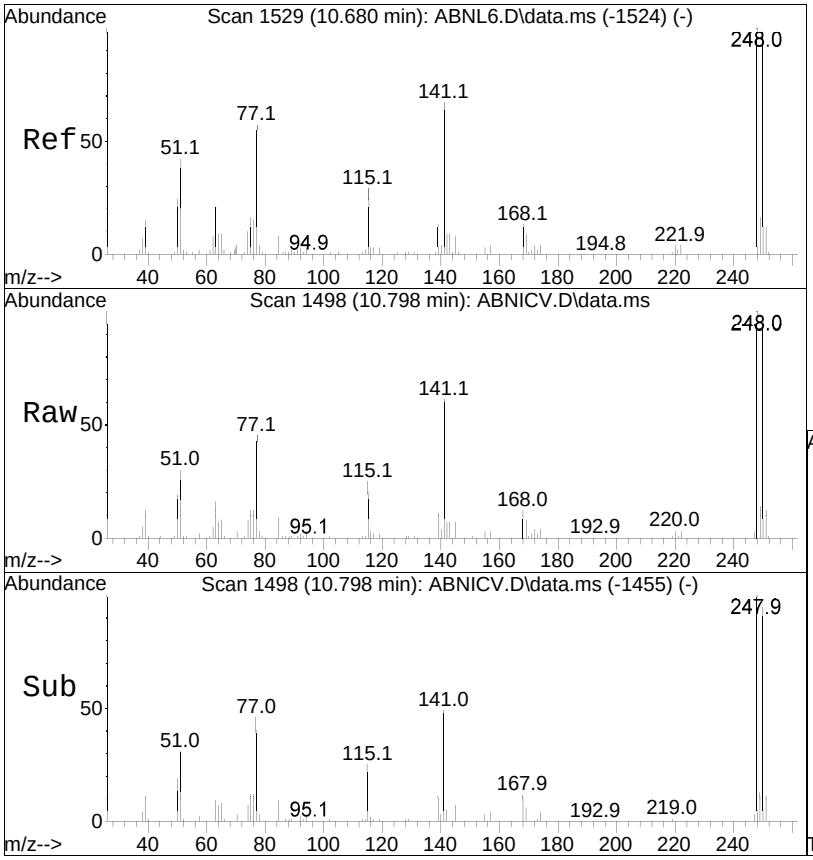


#78
Azobenzene
Concen: 5.06 ug/ml
RT: 10.475 min Scan# 1443
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion: 77 Resp: 252540

Ion	Ratio	Lower	Upper
77	100		
182	28.4	17.4	26.2#
105	22.1	15.4	23.2

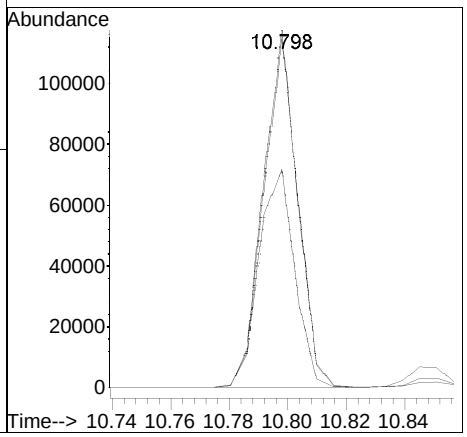


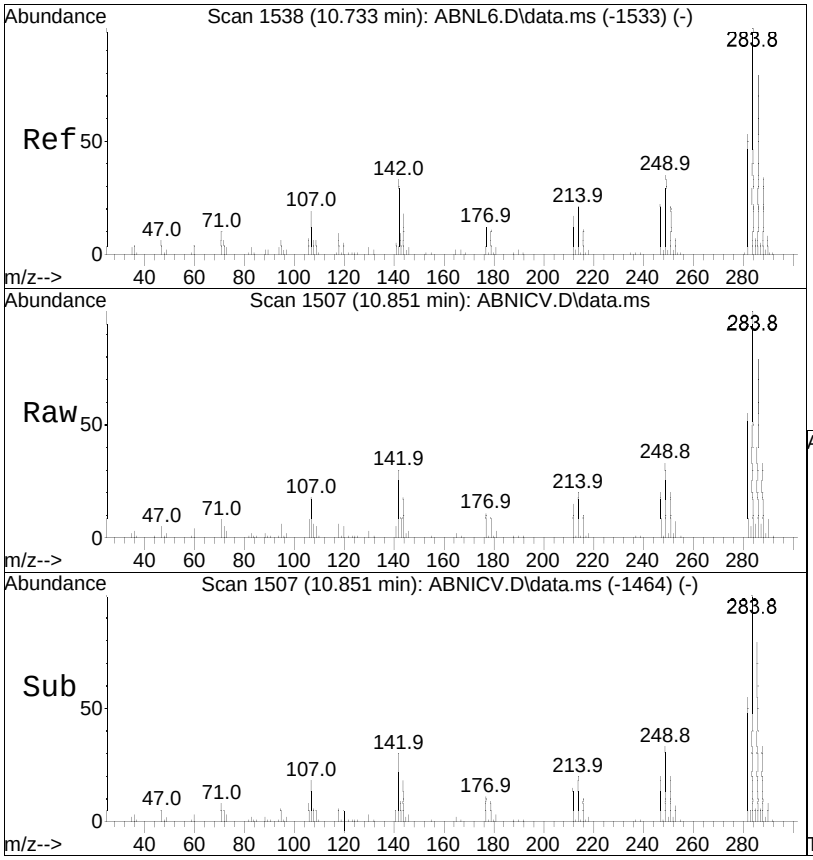


#80
4-Bromophenyl phenyl ether
Concen: 4.99 ug/ml
RT: 10.798 min Scan# 1498
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:248 Resp: 93831

Ion	Ratio	Lower	Upper
248	100		
141	64.5	76.6	114.8#
250	97.4	77.3	115.9

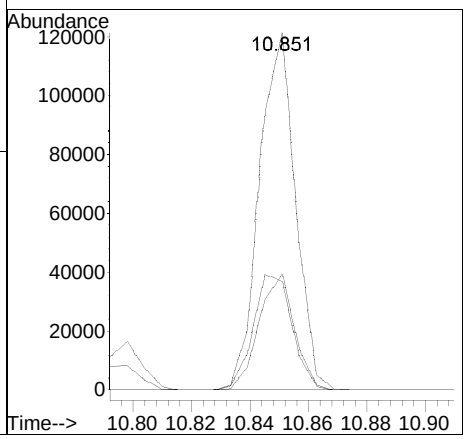


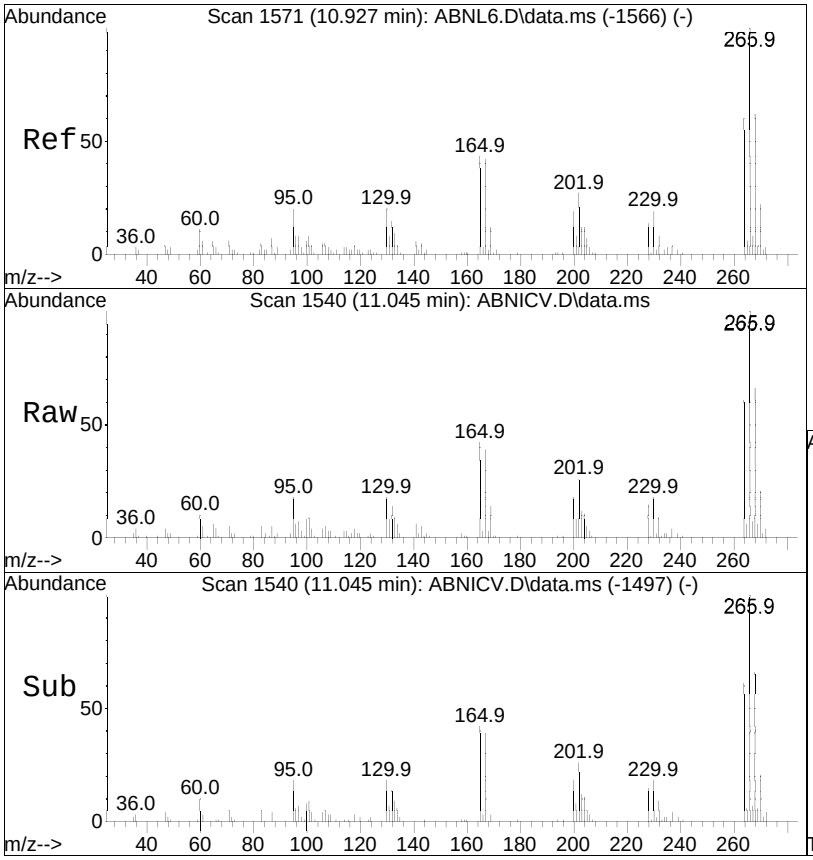


#81
Hexachlorobenzene
Concen: 4.86 ug/ml
RT: 10.851 min Scan# 1507
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:284 Resp: 103516

Ion	Ratio	Lower	Upper
284	100		
142	35.1	41.9	62.9#
249	32.1	24.1	36.1

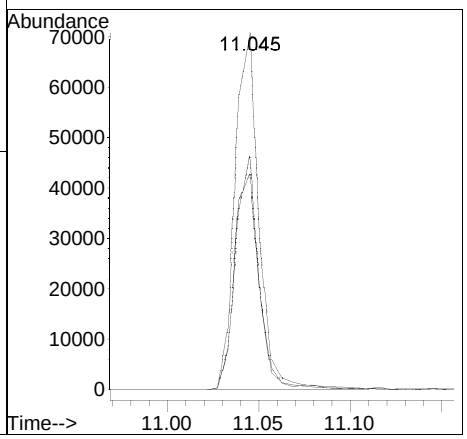


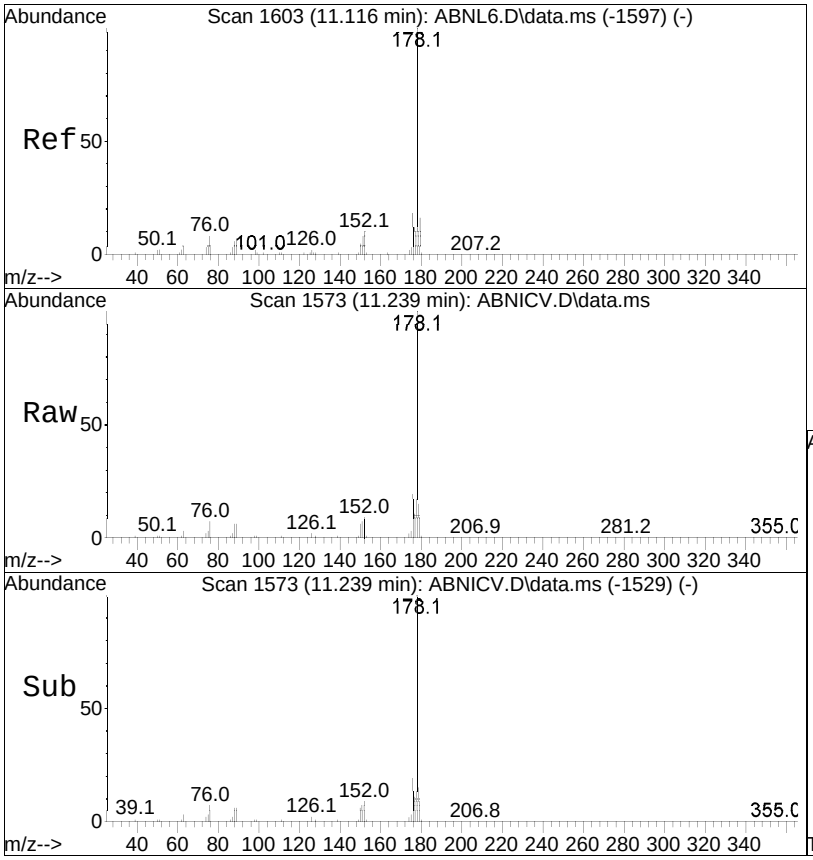


#82
Pentachlorophenol
Concen: 5.02 ug/ml
RT: 11.045 min Scan# 1540
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:266 Resp: 64691

Ion	Ratio	Lower	Upper
266	100		
264	62.9	49.7	74.5
268	64.2	50.5	75.7

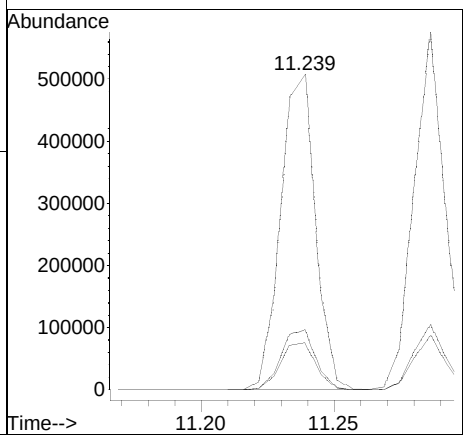


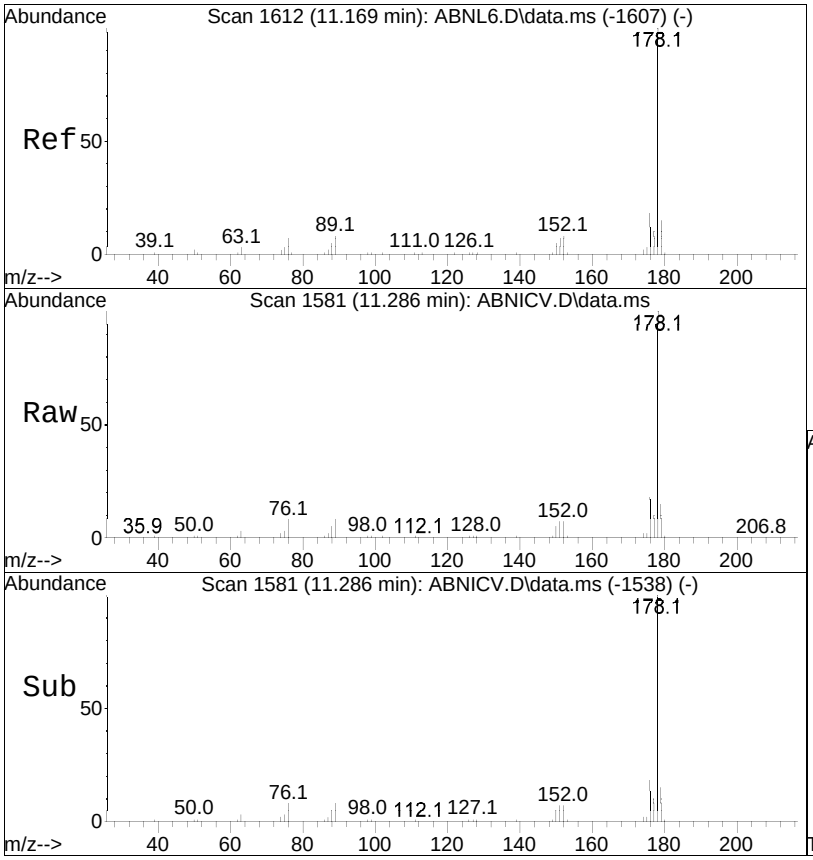


#89
Phenanthrene
Concen: 4.98 ug/ml
RT: 11.239 min Scan# 1573
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:178 Resp: 462471

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.2
176	18.9	15.4	23.2

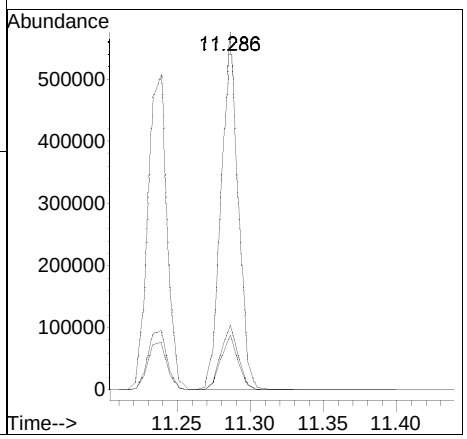


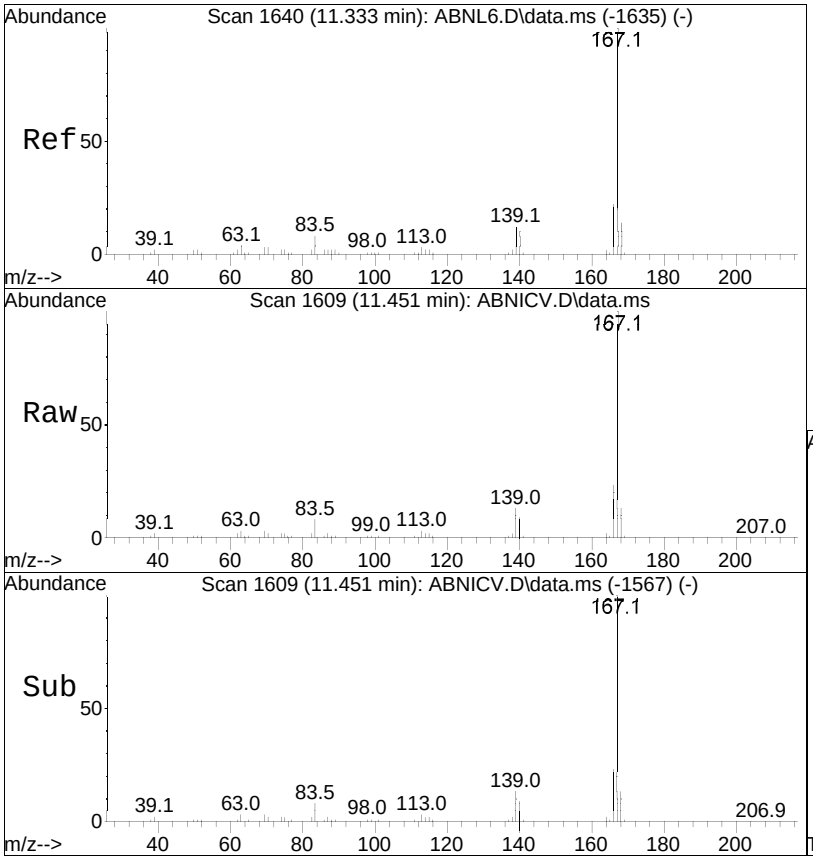


#90
Anthracene
Concen: 5.03 ug/ml
RT: 11.286 min Scan# 1581
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:178 Resp: 465973

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.0	18.0
176	18.4	14.6	22.0

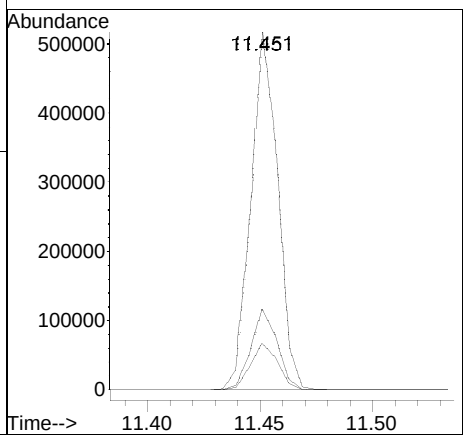


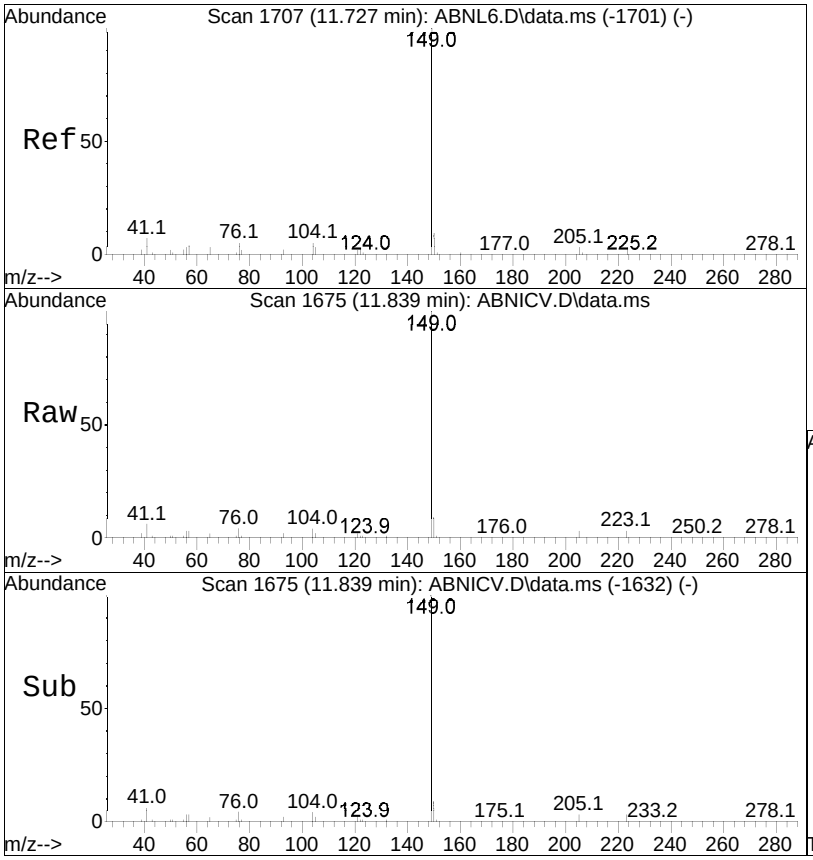


#91
Carbazole
Concen: 5.07 ug/ml
RT: 11.451 min Scan# 1609
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:167 Resp: 423253

Ion	Ratio	Lower	Upper
167	100		
168	13.3	10.6	15.8
166	22.2	17.4	26.0

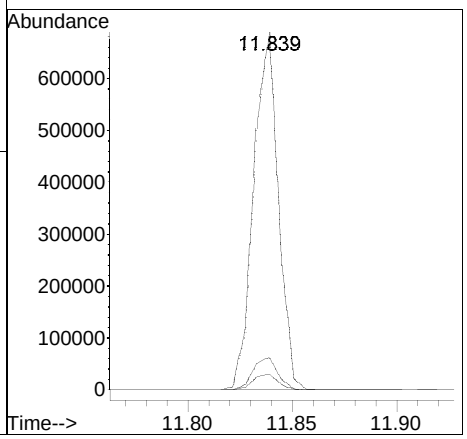


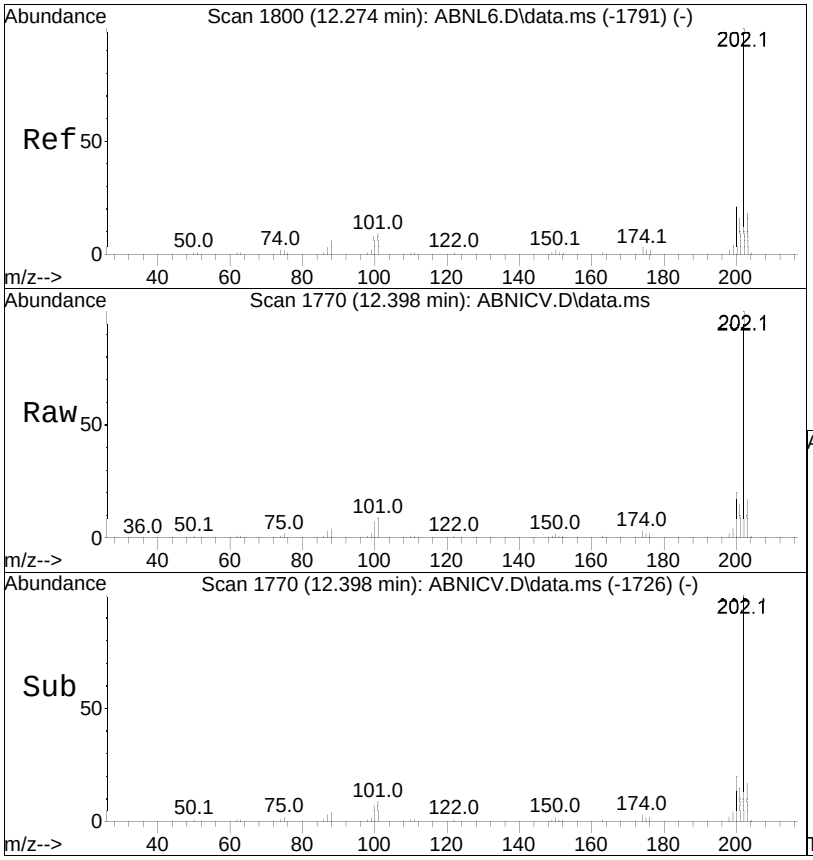


#92
Di-n-butylphthalate
Concen: 5.33 ug/ml
RT: 11.839 min Scan# 1675
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:149 Resp: 556869

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.0	10.6
104	4.6	4.5	6.7

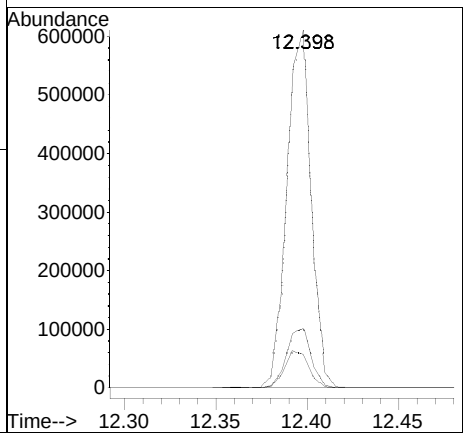


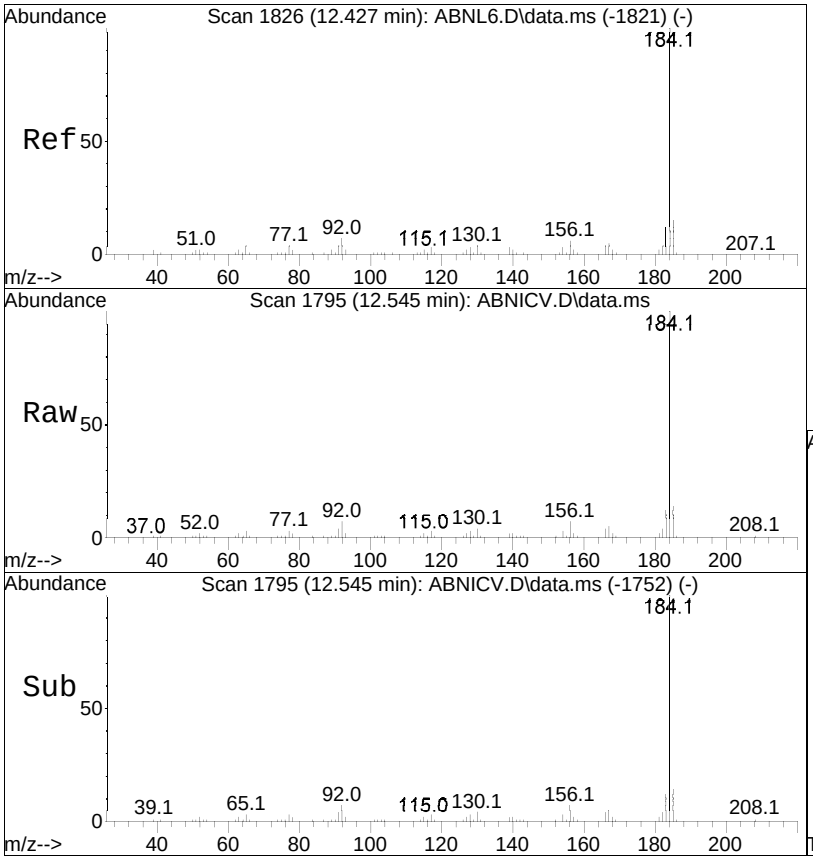


#93
Fluoranthene
Concen: 5.20 ug/ml
RT: 12.398 min Scan# 1770
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:202 Resp: 557525

Ion	Ratio	Lower	Upper
202	100		
101	10.5	13.5	20.3#
203	17.2	13.6	20.4

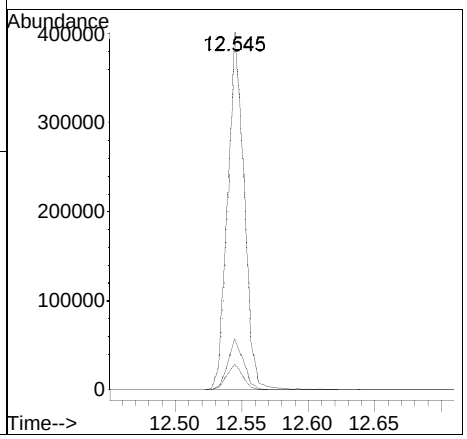


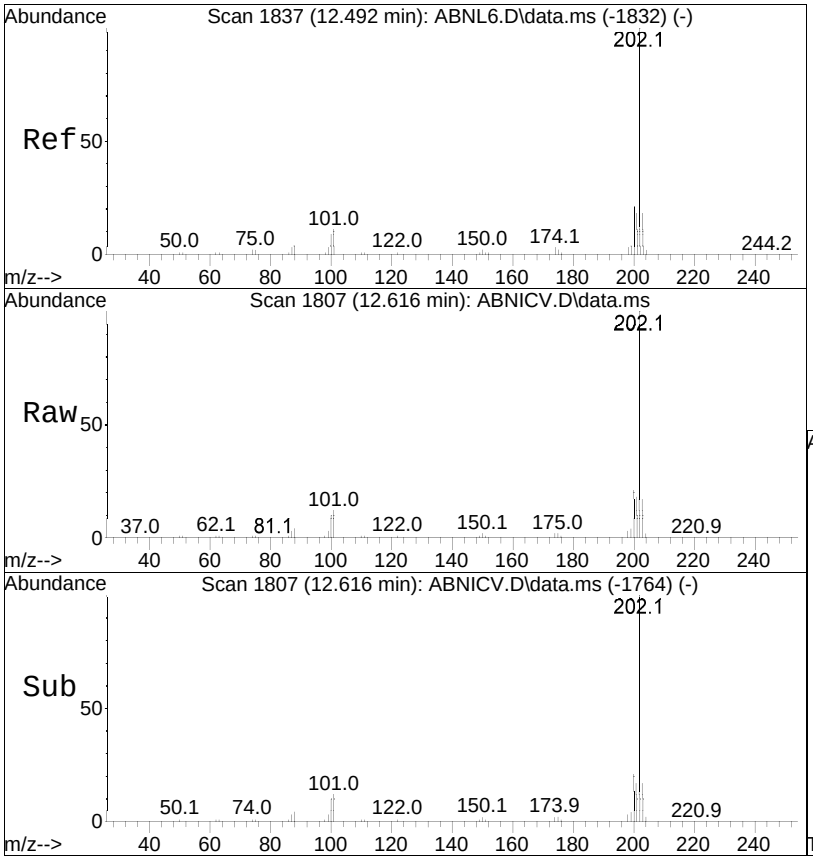


#94
Benzidine
Concen: 5.53 ug/ml
RT: 12.545 min Scan# 1795
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:184 Resp: 339703

Ion	Ratio	Lower	Upper
184	100		
92	7.2	9.1	13.7#
185	14.0	11.1	16.7

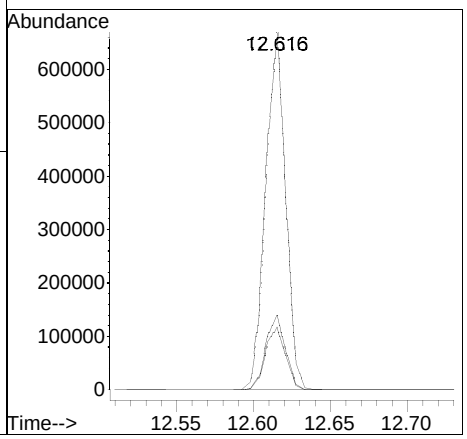


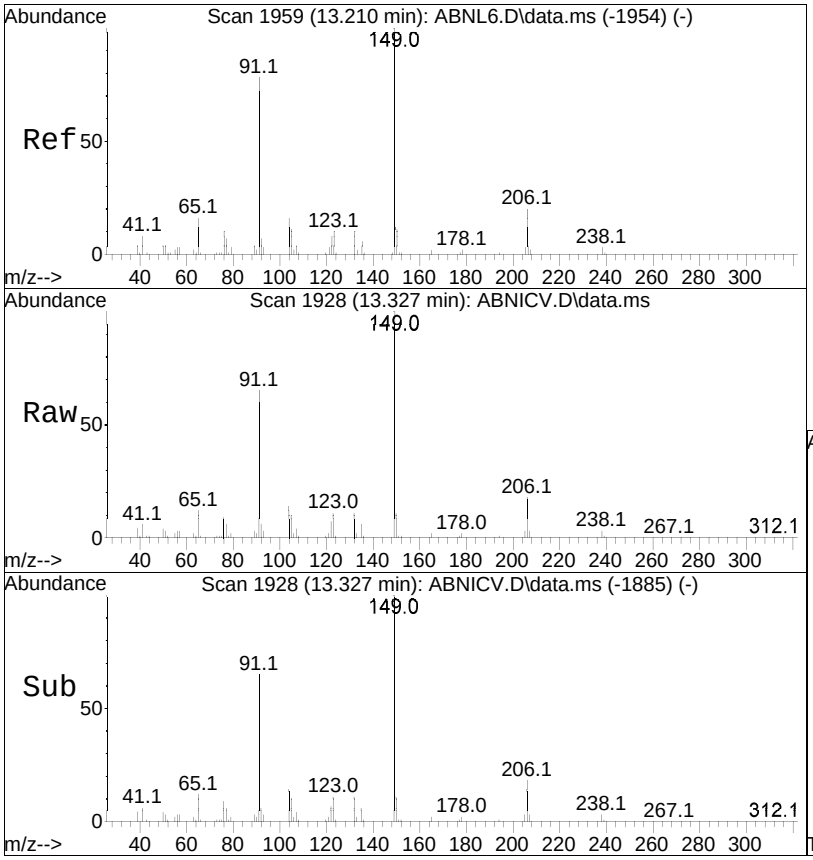


#95
Pyrene
Concen: 5.25 ug/ml
RT: 12.616 min Scan# 1807
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:202 Resp: 593234

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.7	25.1
203	17.9	14.2	21.4

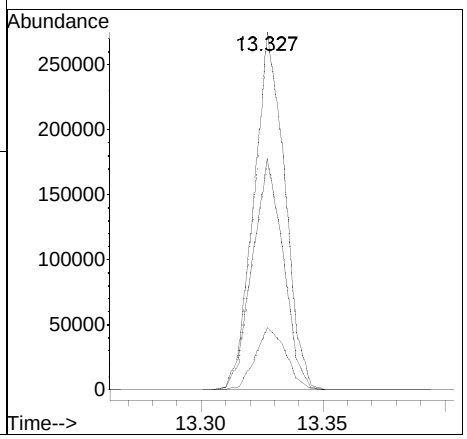


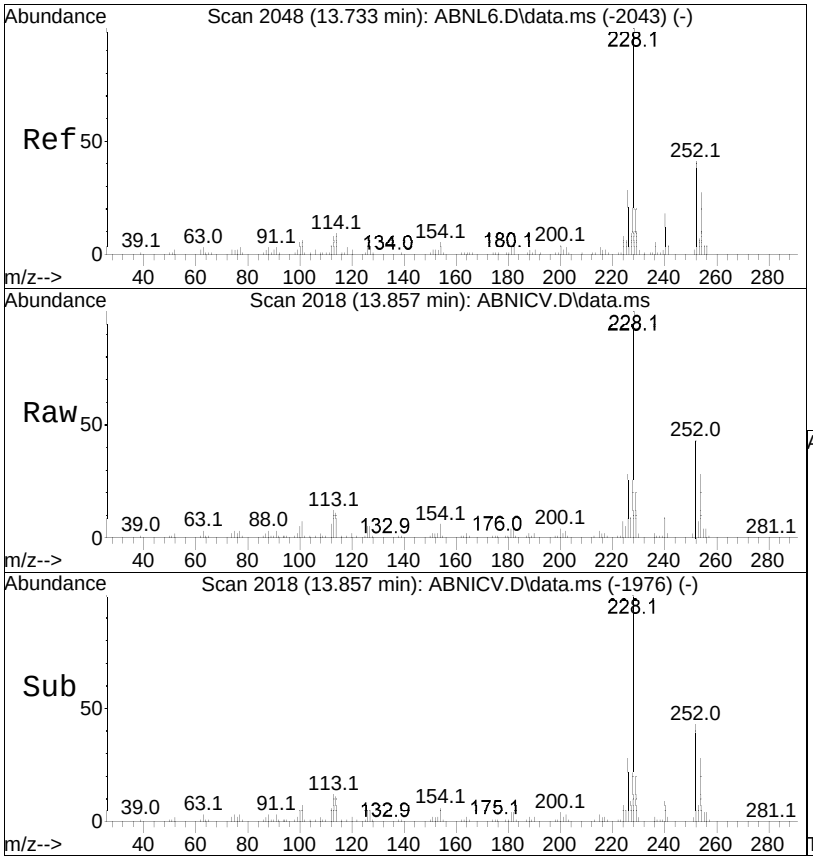


#97
Butyl benzyl phthalate
Concen: 5.44 ug/ml
RT: 13.327 min Scan# 1928
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:149 Resp: 238944

Ion	Ratio	Lower	Upper
149	100		
91	65.0	63.3	94.9
206	17.5	13.9	20.9

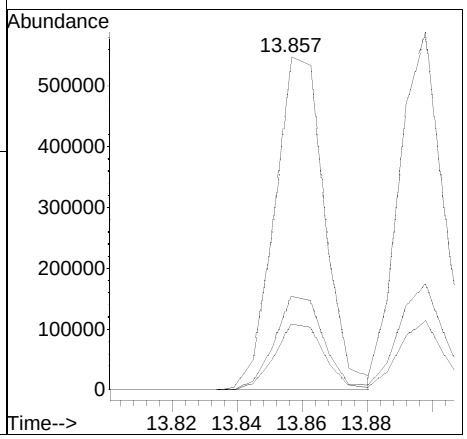


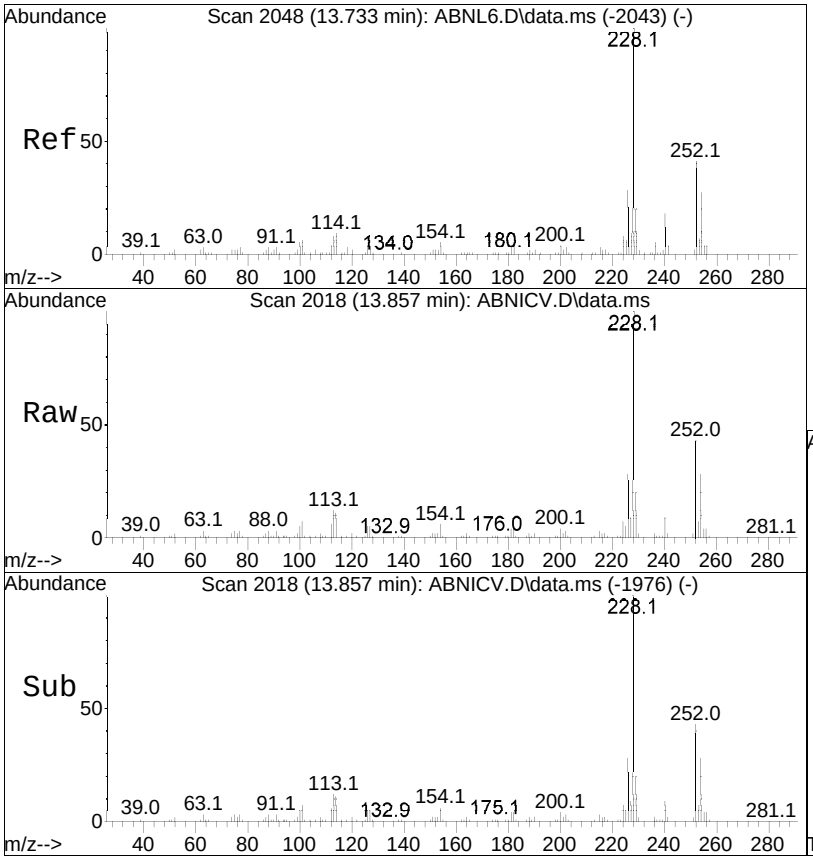


#105
Benzo(a)anthracene
Concen: 4.90 ug/ml
RT: 13.857 min Scan# 2018
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:228 Resp: 586338

Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.2	33.4
229	19.8	15.6	23.4

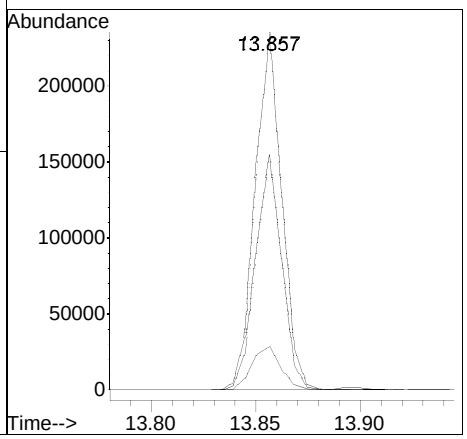


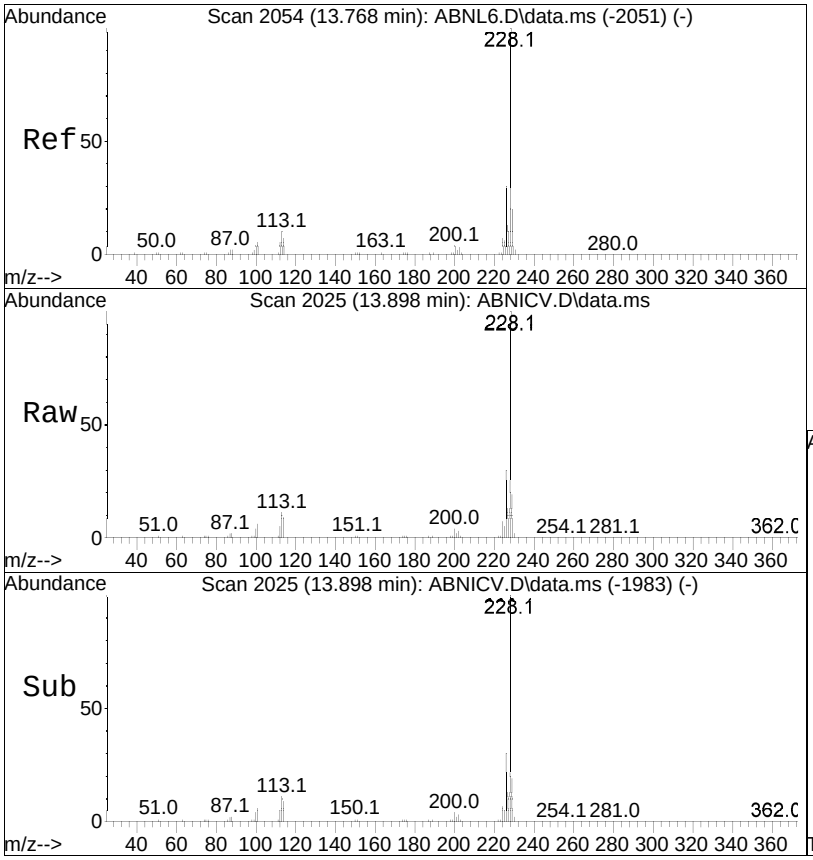


#106
3,3'-Dichlorobenzidine
Concen: 5.26 ug/ml
RT: 13.857 min Scan# 2018
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:252 Resp: 206912

Ion	Ratio	Lower	Upper
252	100		
126	13.5	14.5	21.7#
254	65.1	51.2	76.8

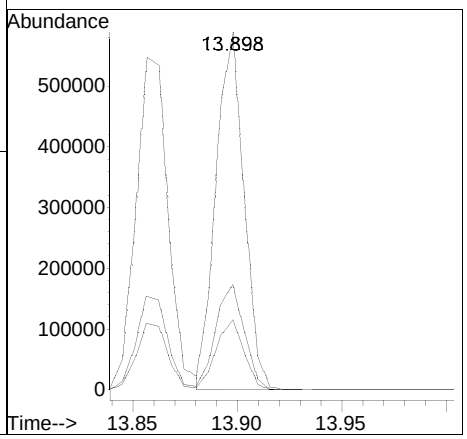


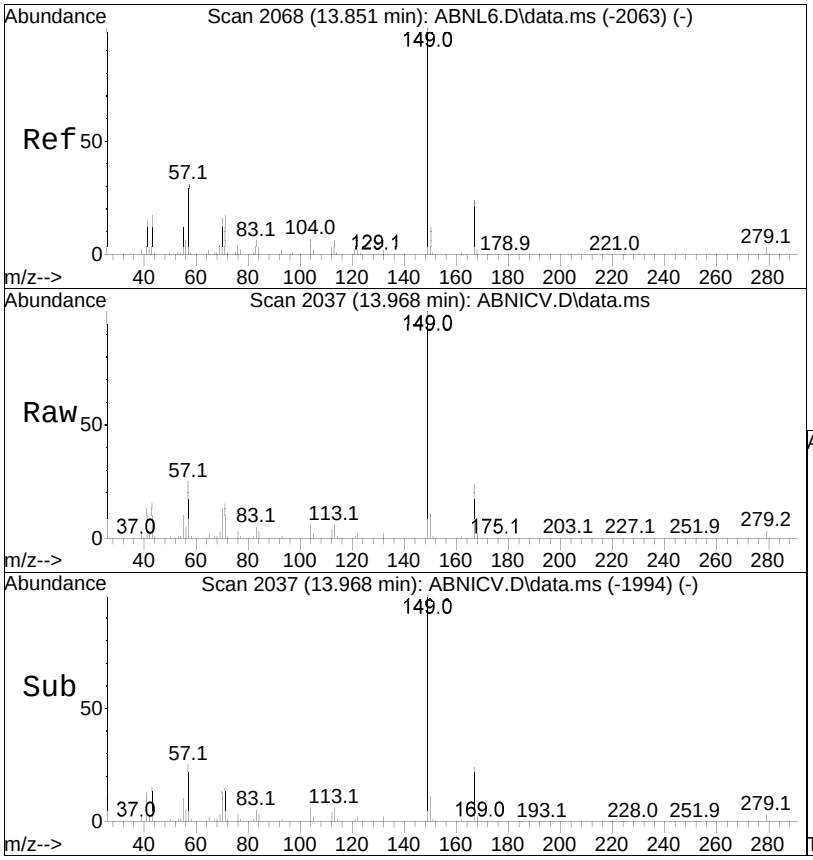


#107
Chrysene
Concen: 4.78 ug/ml
RT: 13.898 min Scan# 2025
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:228 Resp: 549197

Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.0	36.0
229	19.4	15.8	23.8

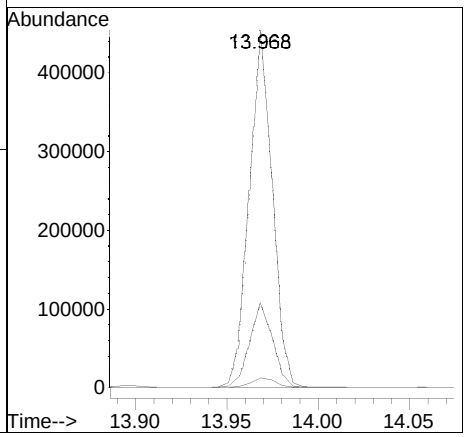


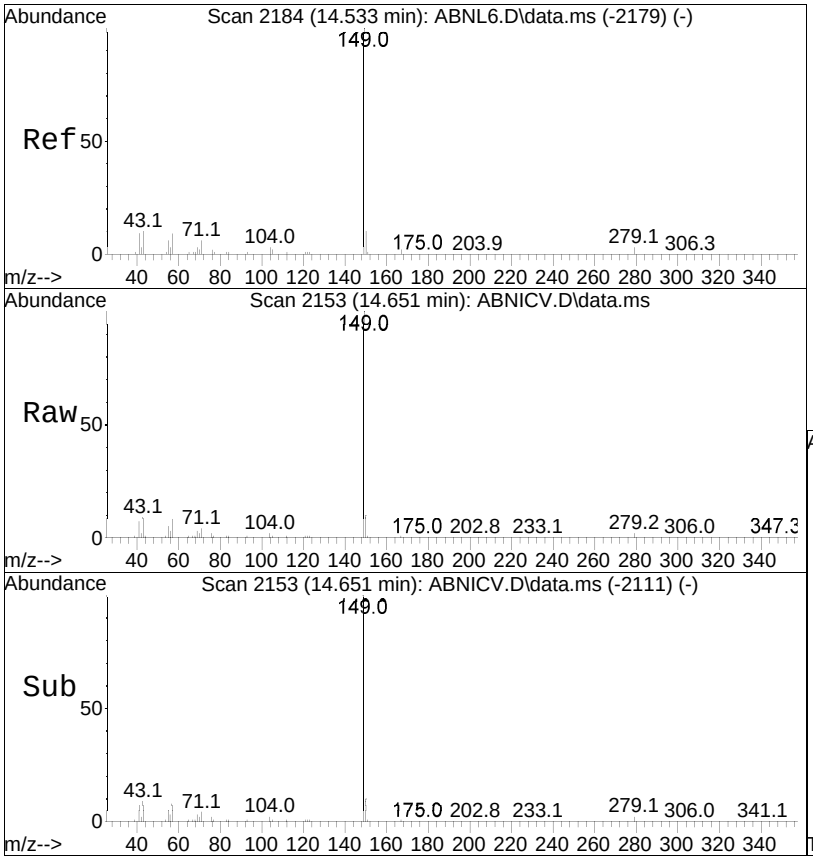


#108
Bis(2-ethylhexyl)phthalate
Concen: 5.48 ug/ml
RT: 13.968 min Scan# 2037
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:149 Resp: 394308

Ion	Ratio	Lower	Upper
149	100		
167	23.8	22.1	33.1
279	2.6	3.0	4.4#

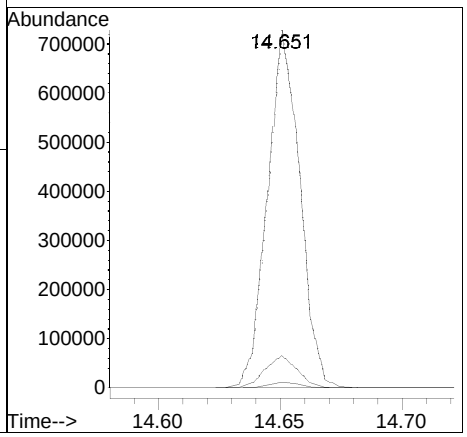


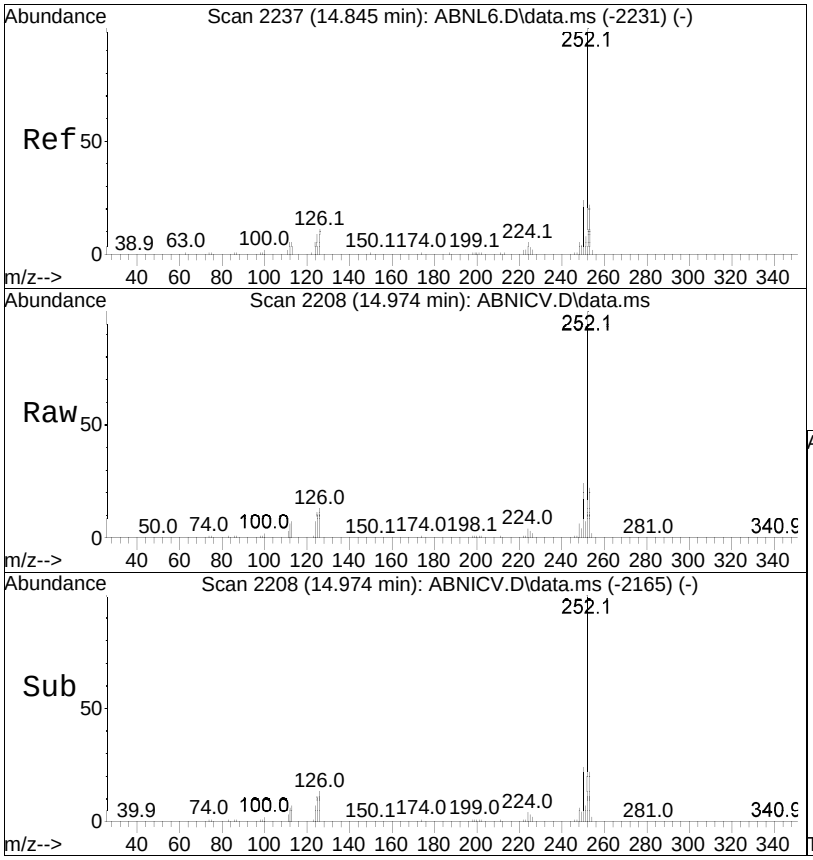


#109
Di-n-octylphthalate
Concen: 5.54 ug/ml
RT: 14.651 min Scan# 2153
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:149 Resp: 660821

Ion	Ratio	Lower	Upper
149	100		
43	9.2	18.8	28.2#
167	1.4	1.3	1.9

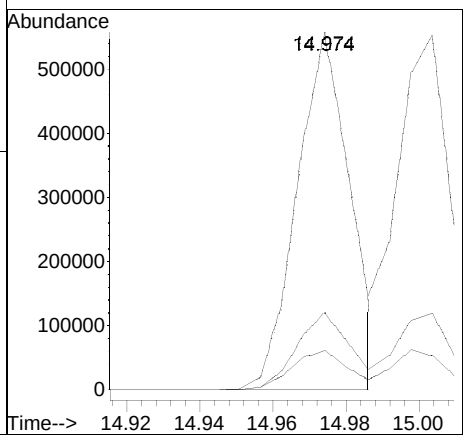


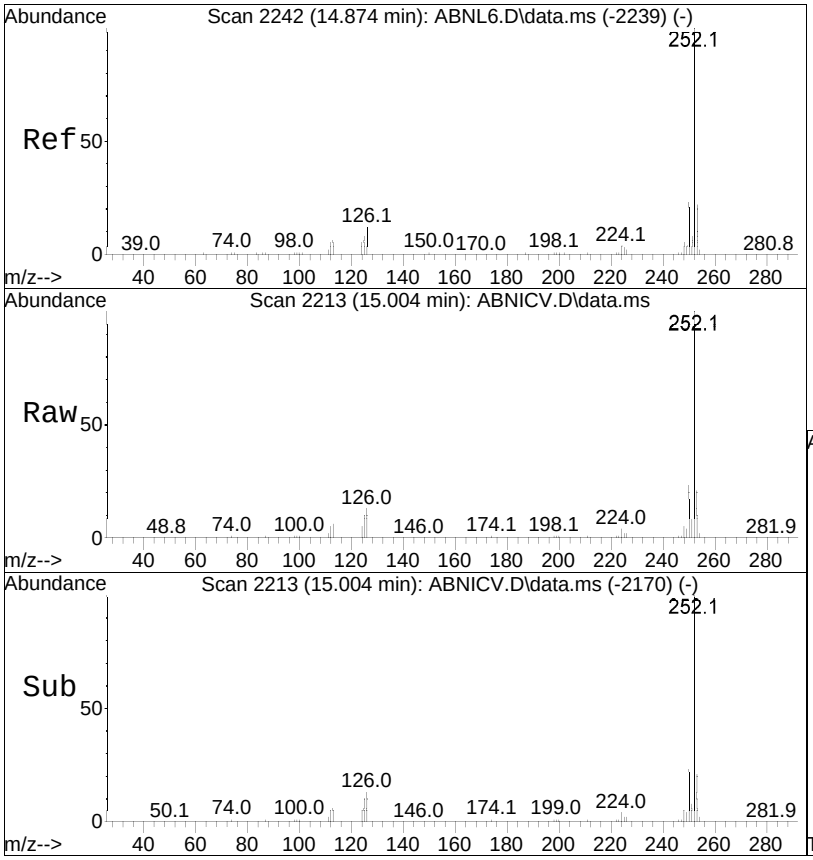


#110
Benzo(b)fluoranthene
Concen: 4.89 ug/ml
RT: 14.974 min Scan# 2208
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:252 Resp: 564800

Ion	Ratio	Lower	Upper
252	100		
125	11.9	13.3	19.9#
253	21.7	17.1	25.7

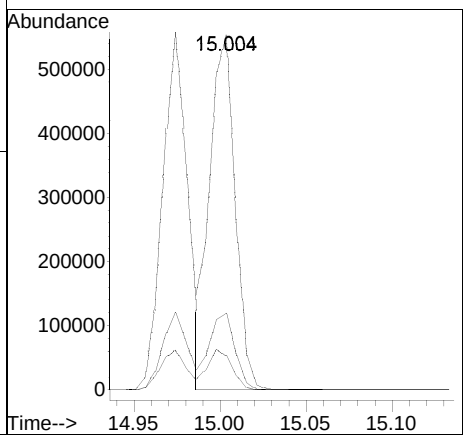


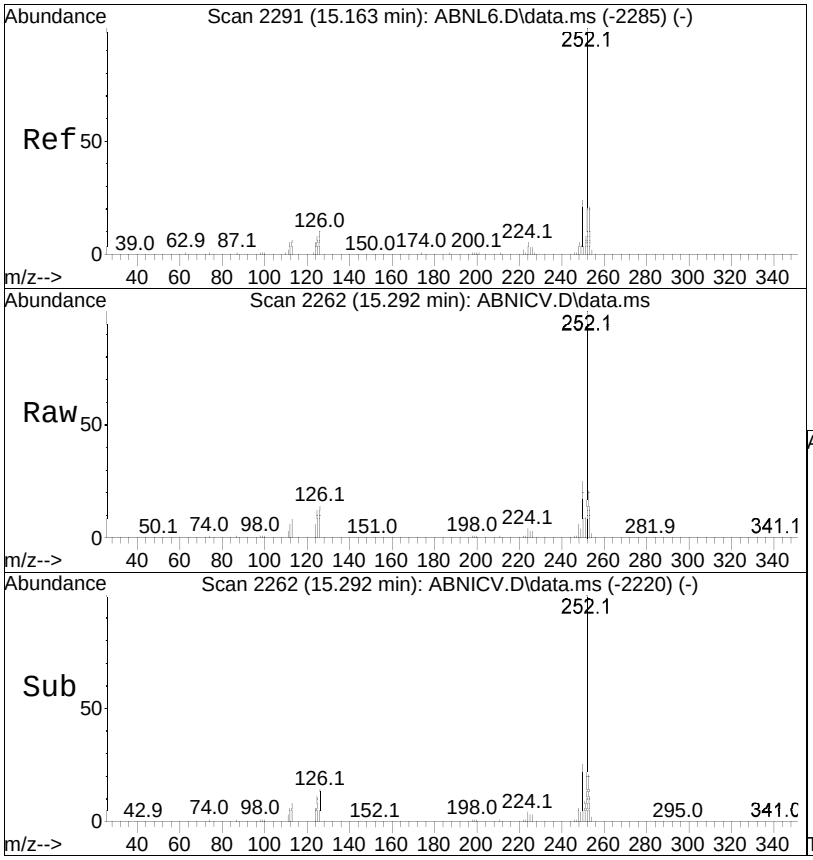


#111
Benzo(k)fluoranthene
Concen: 5.27 ug/ml
RT: 15.004 min Scan# 2213
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:252 Resp: 567319

Ion	Ratio	Lower	Upper
252	100		
125	11.0	13.0	19.6#
253	21.8	16.8	25.2

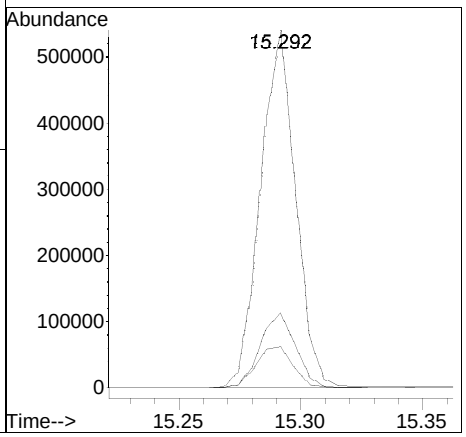


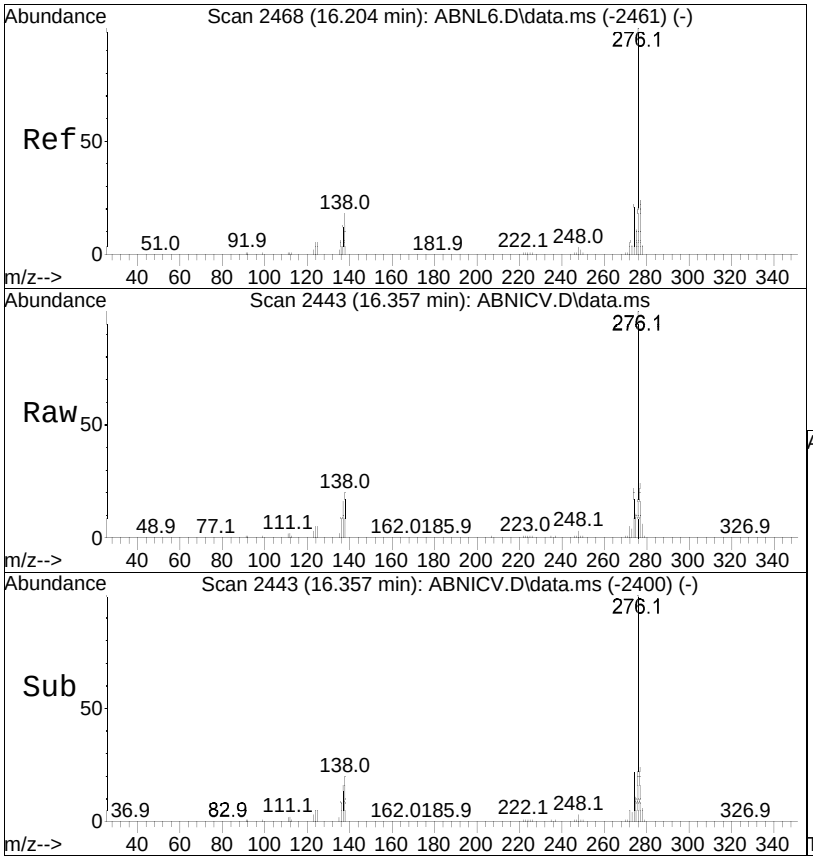


#112
Benzo(a)pyrene
Concen: 5.36 ug/ml
RT: 15.292 min Scan# 2262
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:252 Resp: 537065

Ion	Ratio	Lower	Upper
252	100		
125	12.5	14.2	21.2#
253	21.4	16.9	25.3

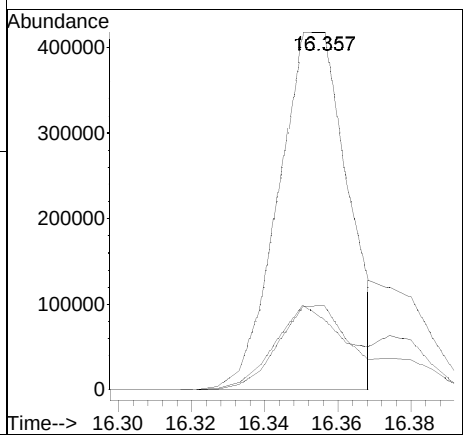


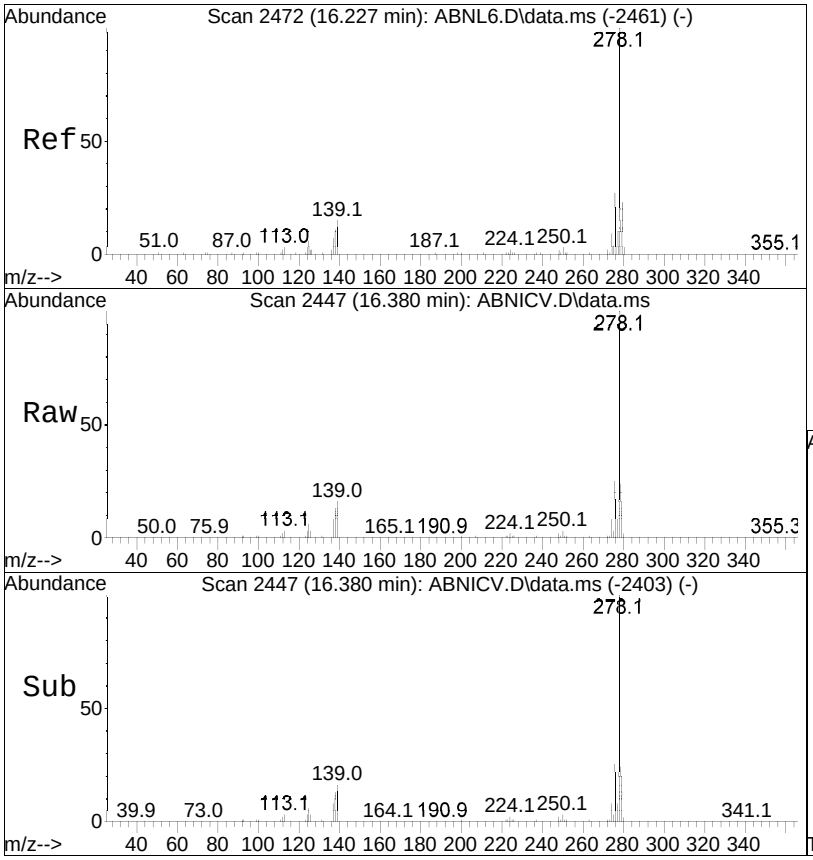


#114
Indeno(1,2,3-cd)pyrene
Concen: 5.01 ug/mL M6
RT: 16.357 min Scan# 2443
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:276 Resp: 557701

Ion	Ratio	Lower	Upper
276	100		
138	24.8	25.1	37.7#
277	30.8	18.6	28.0#

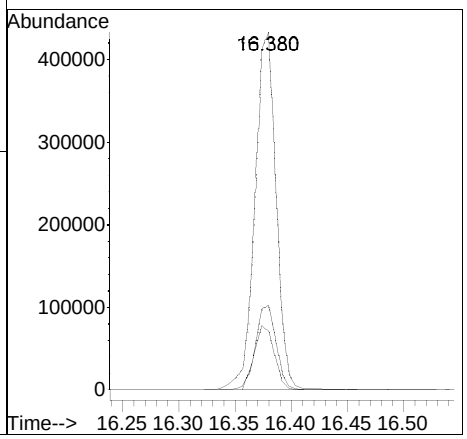


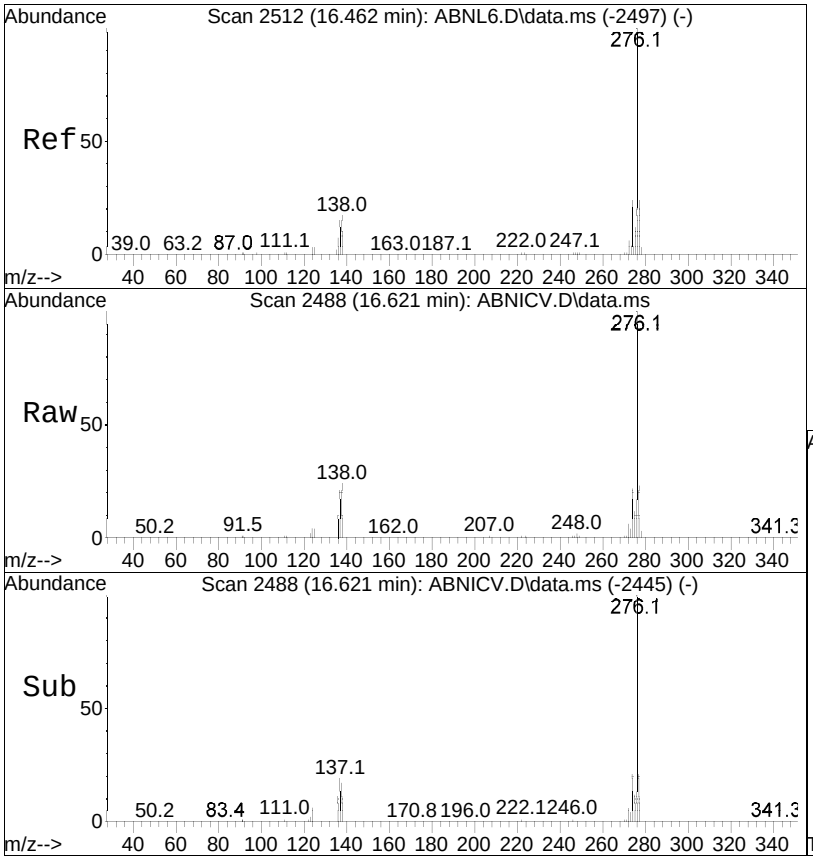


#115
Dibenzo(a,h)anthracene
Concen: 5.29 ug/ml
RT: 16.380 min Scan# 2447
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:278 Resp: 559514

Ion	Ratio	Lower	Upper
278	100		
139	17.3	20.8	31.2#
279	23.3	18.3	27.5

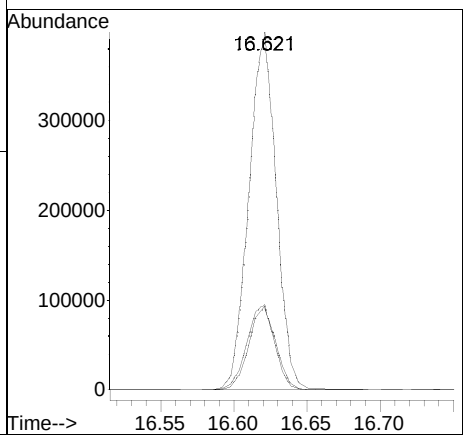




#116
Benzo(ghi)perylene
Concen: 5.18 ug/ml
RT: 16.621 min Scan# 2488
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:276 Resp: 513605

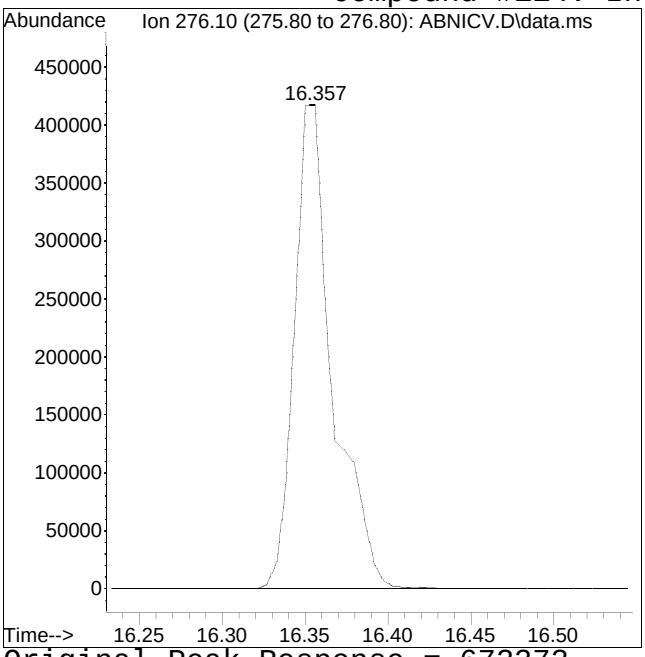
Ion	Ratio	Lower	Upper
276	100		
138	24.1	29.2	43.8#
277	23.2	18.8	28.2



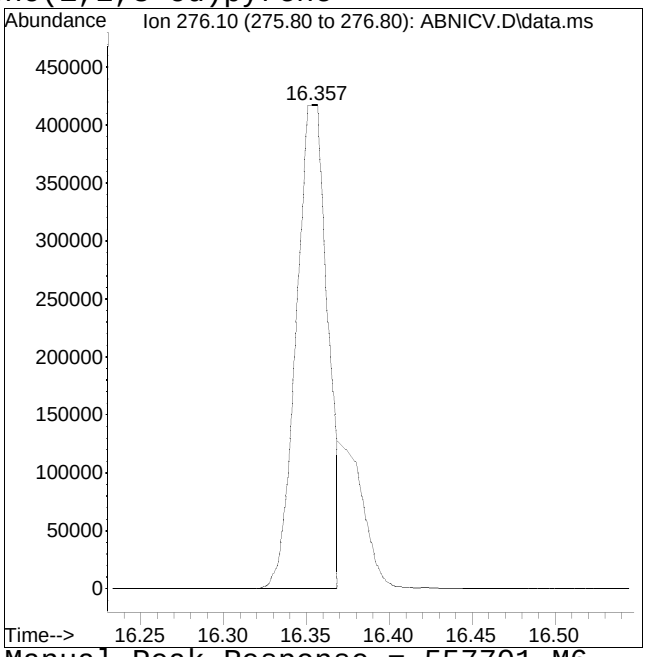
Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNICV.D Operator : SV106:HNY
Date Inj'd : 10/10/2024 3:13 am Instrument : SV 106
Sample : CQICV1,32,,ABNICV Lot# 110Quant Date : 10/16/2024 5:40 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 673373



Manual Peak Response = 557701 M6

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9ICV.D
Acq On : 10 Oct 2024 3:37 am
Operator : SV106:HNY
Sample : CQICV2,32,,AP9ICV Lot# 11032
Misc : WG1984388
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 11 12:12:14 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 12:10:20 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	102	0.00
28	T	Benzaldehyde	0.948	1.108	-16.9	116	0.00
29	T	Acetophenone	1.829	1.945	-6.3	110	0.00
30	T	m-Toluidine	1.612	1.865	-15.7	117	0.00
31	T	2-Chloroaniline	1.609	1.740	-8.1	107	0.00
55	I	IS2_Naphthalene-d8	1.000	1.000	0.0	102	0.00
56	T	a-Terpineol	0.282	0.298	-5.7	109	0.00
57	T	3-Chloroaniline	0.132	0.150	-13.6	109	0.00
58	T	2,6-Dichlorophenol	0.300	0.327	-9.0	108	0.00
59	T	1-chloro-2-nitrobenzene	0.145	0.158	-9.0	110	0.00
60	T	Caprolactam	0.147	0.159	-8.2	108	0.00
61	T	1,2,4,5-Tetrachlorobenzene	0.402	0.422	-5.0	108	0.00
62	T	Biphenyl	0.907	0.959	-5.7	106	0.00
83	I	IS2_Acenaphthene-d10	1.000	1.000	0.0	104	0.00
84	T	Dichloran	0.181	0.188	-3.9	109	0.00
85	T	Pentachloronitrobenzene	0.193	0.202	-4.7	105	0.00
98	I	IS2_Phenanthrene-d10	1.000	1.000	0.0	100	0.00
99	T	Diphenamid	0.505	0.546	-8.1	103	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9ICV.D
Acq On : 10 Oct 2024 3:37 am
Operator : SV106:HNY
Sample : CQICV2,32,,AP9ICV Lot# 11032
Misc : WG1984388
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 11 12:12:14 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 12:10:20 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.604	152	69862	4.000	ug/ml		0.00
Standard Area 3 = 68577			Recovery =	101.87%			
55) IS2_Naphthalene-d8	8.010	136	266878	4.000	ug/ml	#	0.00
Standard Area 3 = 261108			Recovery =	102.21%			
83) IS2_Acenaphthene-d10	9.769	164	159521	4.000	ug/ml		0.00
Standard Area 3 = 153971			Recovery =	103.60%			
98) IS2_Phenanthrene-d10	11.216	188	324327	4.000	ug/ml		0.00
Standard Area 3 = 324206			Recovery =	100.04%			
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	6.040	105	96802	5.849	ug/ml		95
29) Acetophenone	7.087	105	169891	5.319	ug/ml	#	80
30) m-Toluidine	7.187	106	162885	5.784	ug/ml		95
31) 2-Chloroaniline	7.587	127	151975	5.407	ug/ml	#	92
56) a-Terpineol	8.075	59	99379	5.279	ug/ml	#	83
57) 3-Chloroaniline	8.092	65	49908	5.646	ug/ml		97
58) 2,6-Dichlorophenol	8.122	162	109210	5.457	ug/ml	#	85
59) 1-chloro-2-nitrobenzene	8.387	111	52627	5.425	ug/ml	#	1
60) Caprolactam	8.422	55	53050	5.421	ug/ml	#	67
61) 1,2,4,5-Tetrachloroben...	8.922	216	140652	5.246	ug/ml		97
62) Biphenyl	9.222	154	320073	5.290	ug/ml		99
84) Dichloran	10.904	206	37449	5.186	ug/ml	#	70
85) Pentachloronitrobenzene	11.057	237	40333	5.233	ug/ml	#	80
99) Diphenamid	12.116	167	221467	5.410	ug/ml	#	79

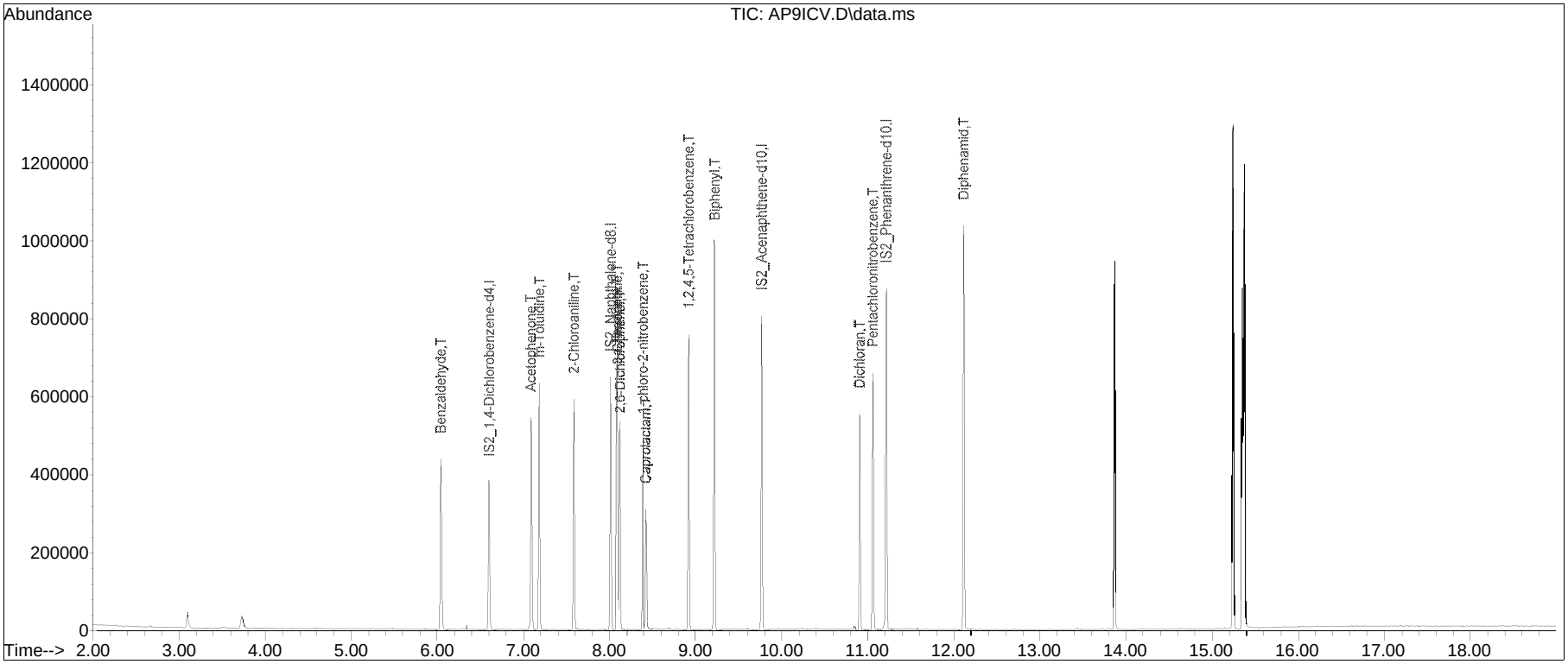
(#) = qualifier out of range (m) = manual integration (+) = signals summed

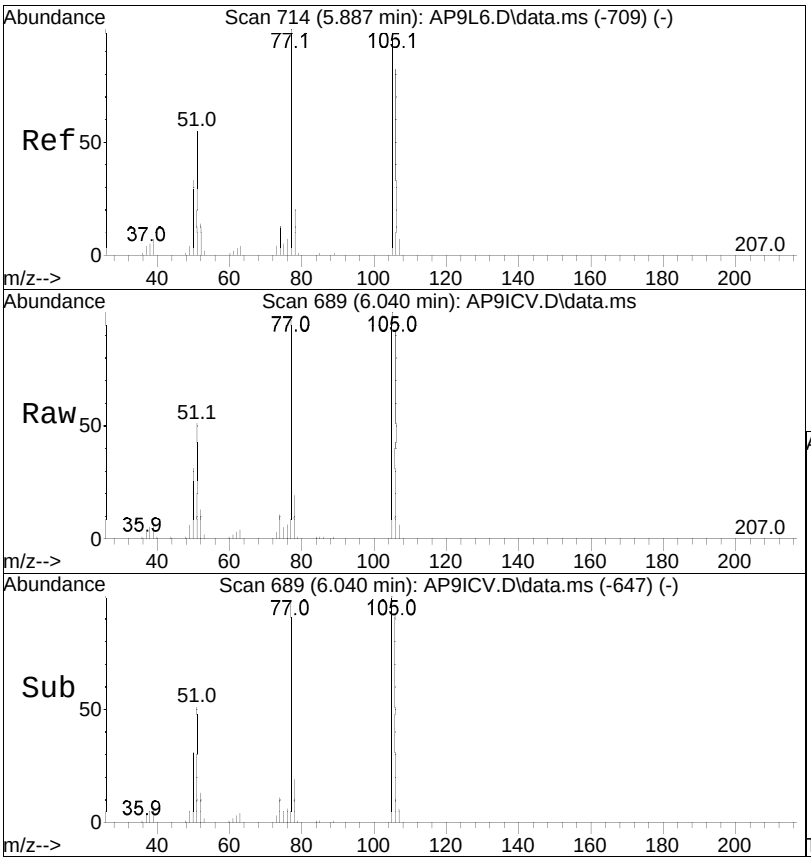
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9ICV.D
Acq On : 10 Oct 2024 3:37 am
Operator : SV106:HNY
Sample : CQICV2,32,,AP9ICV Lot# 11032
Misc : WG1984388
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 11 12:12:14 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 12:10:20 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•

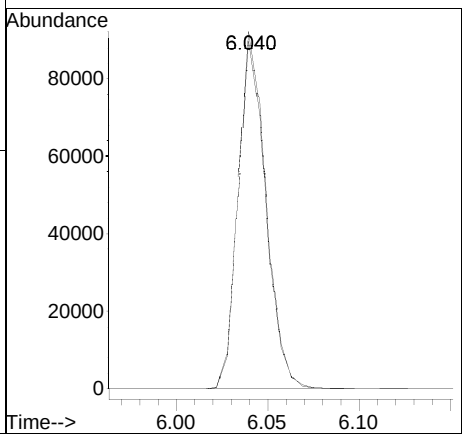


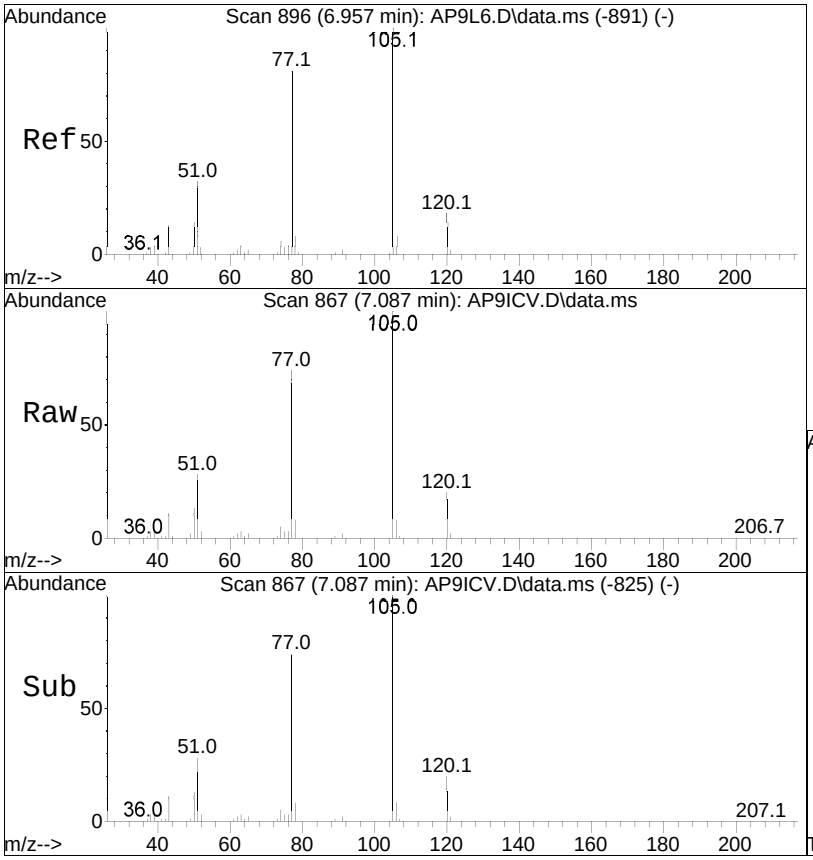


#28
Benzaldehyde
Concen: 5.85 ug/ml
RT: 6.040 min Scan# 689
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 10 Oct 2024 3:37 am

Tgt Ion:105 Resp: 96802

Ion	Ratio	Lower	Upper
105	100		
77	97.3	82.2	123.4

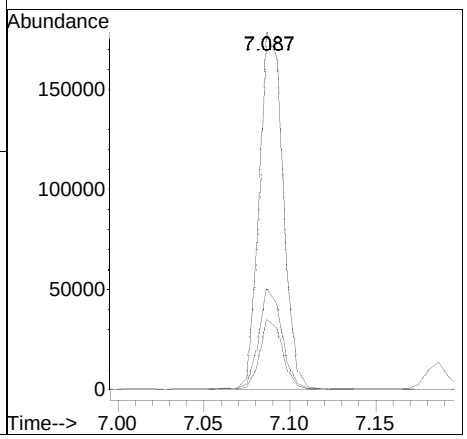


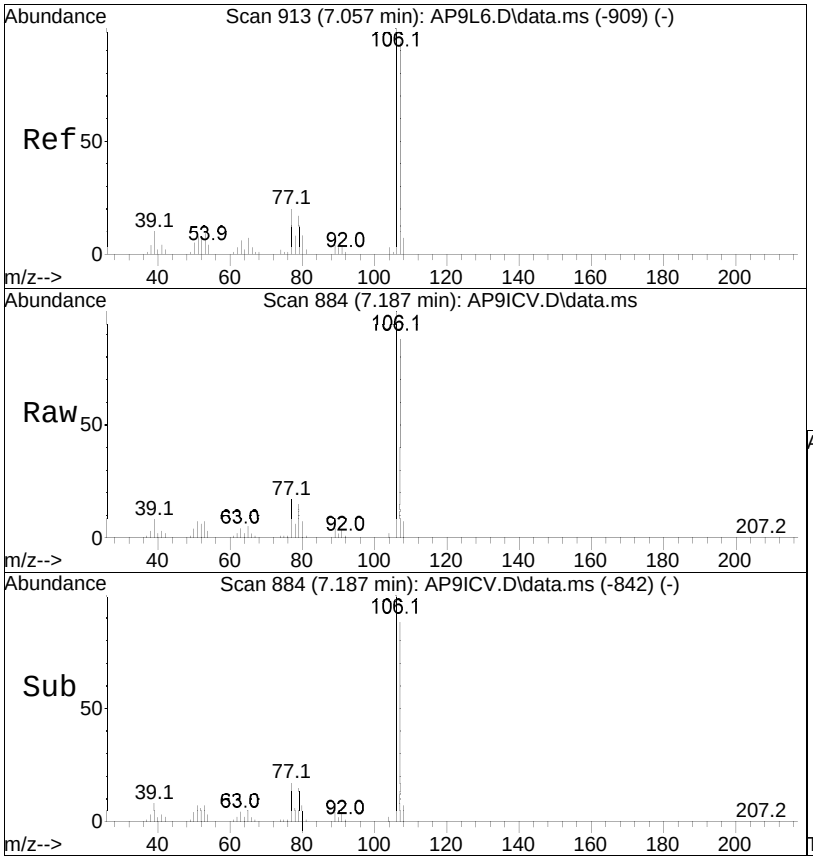


#29
Acetophenone
Concen: 5.32 ug/ml
RT: 7.087 min Scan# 867
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 10 Oct 2024 3:37 am

Tgt Ion:105 Resp: 169891

Ion	Ratio	Lower	Upper
105	100		
120	18.9	20.5	30.7#
51	27.6	34.9	52.3#

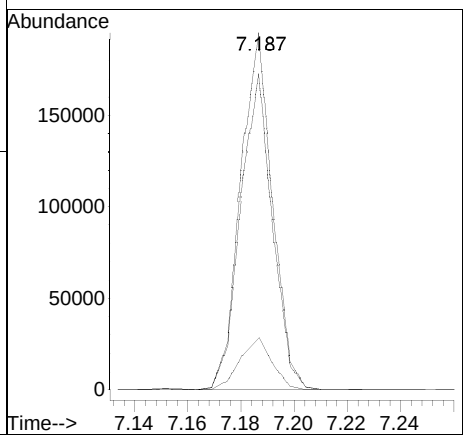


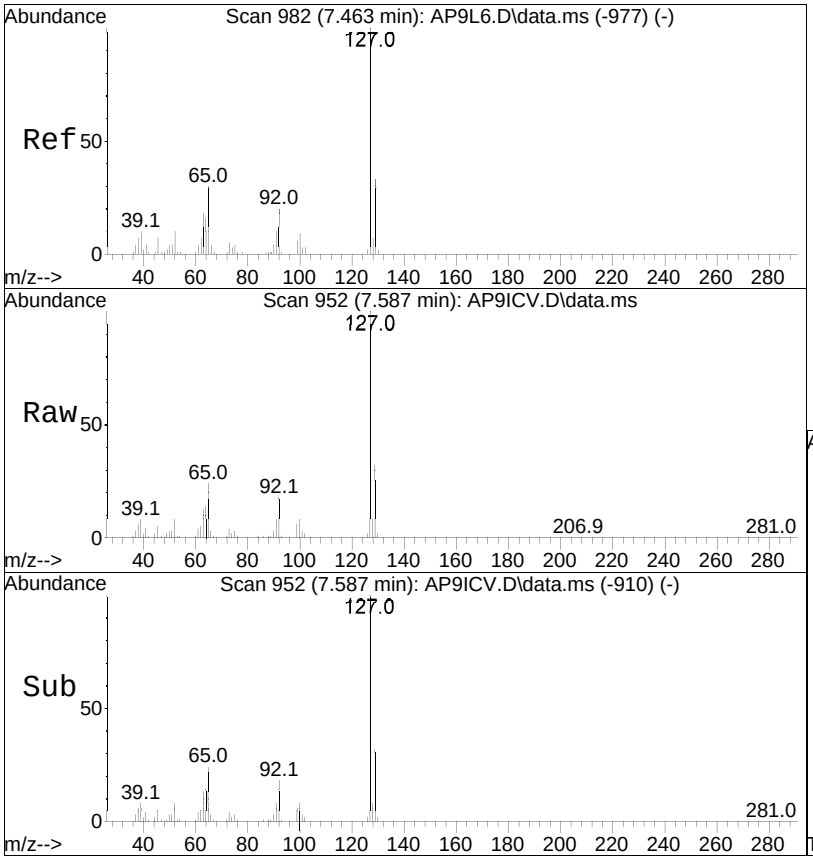


#30
m-Toluidine
Concen: 5.78 ug/ml
RT: 7.187 min Scan# 884
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 10 Oct 2024 3:37 am

Tgt Ion:106 Resp: 162885

Ion	Ratio	Lower	Upper
106	100		
107	88.6	75.7	113.5
79	14.8	11.8	17.8

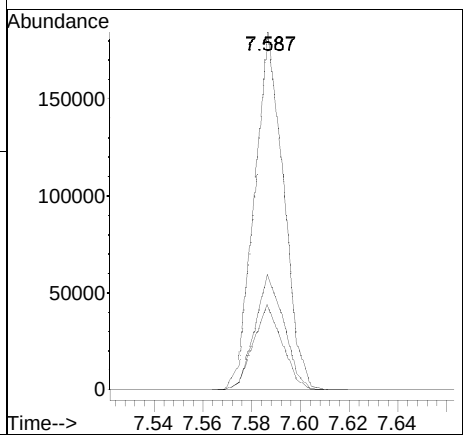


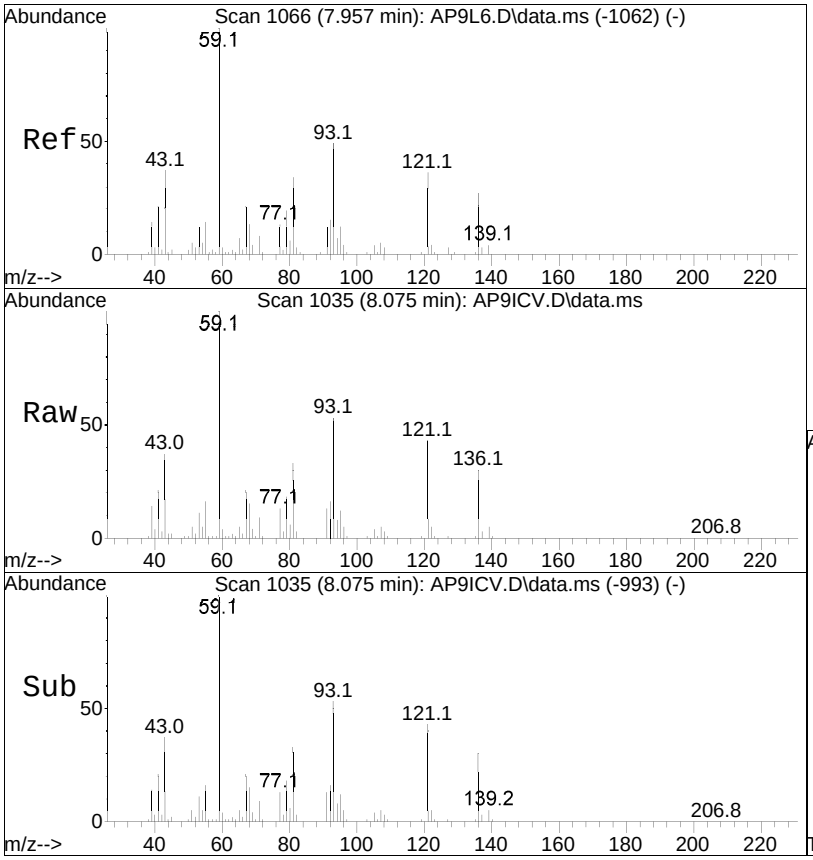


#31
2-Chloroaniline
Concen: 5.41 ug/ml
RT: 7.587 min Scan# 952
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 10 Oct 2024 3:37 am

Tgt Ion:127 Resp: 151975

Ion	Ratio	Lower	Upper
127	100		
129	32.3	25.9	38.9
65	23.8	26.3	39.5#

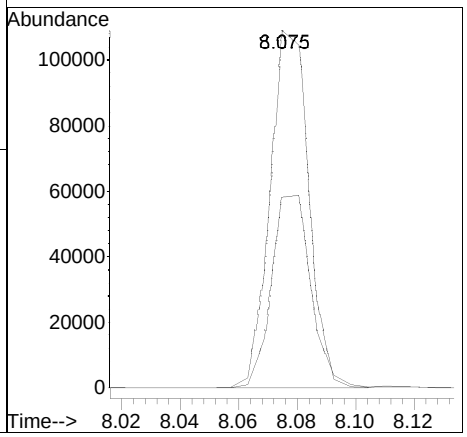


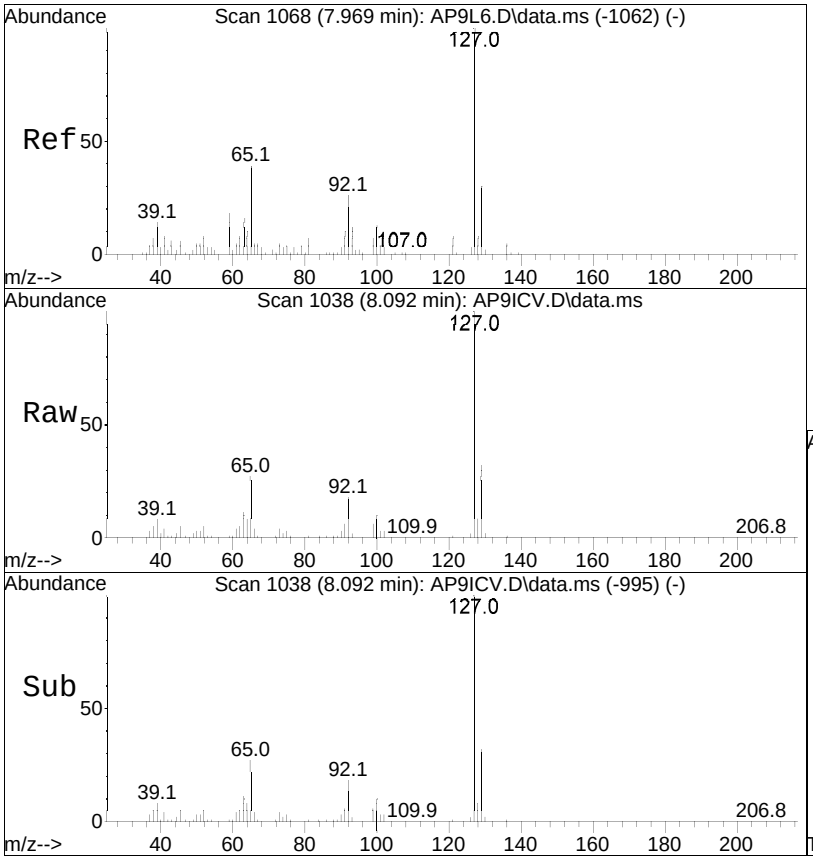


#56
a-Terpineol
Concen: 5.28 ug/ml
RT: 8.075 min Scan# 1035
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 10 Oct 2024 3:37 am

Tgt Ion: 59 Resp: 99379

Ion	Ratio	Lower	Upper
59	100		
93	55.7	35.6	53.4#

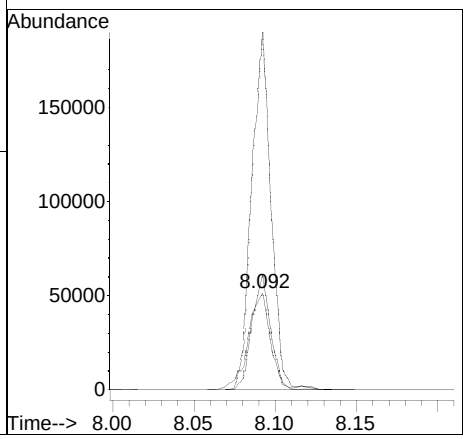


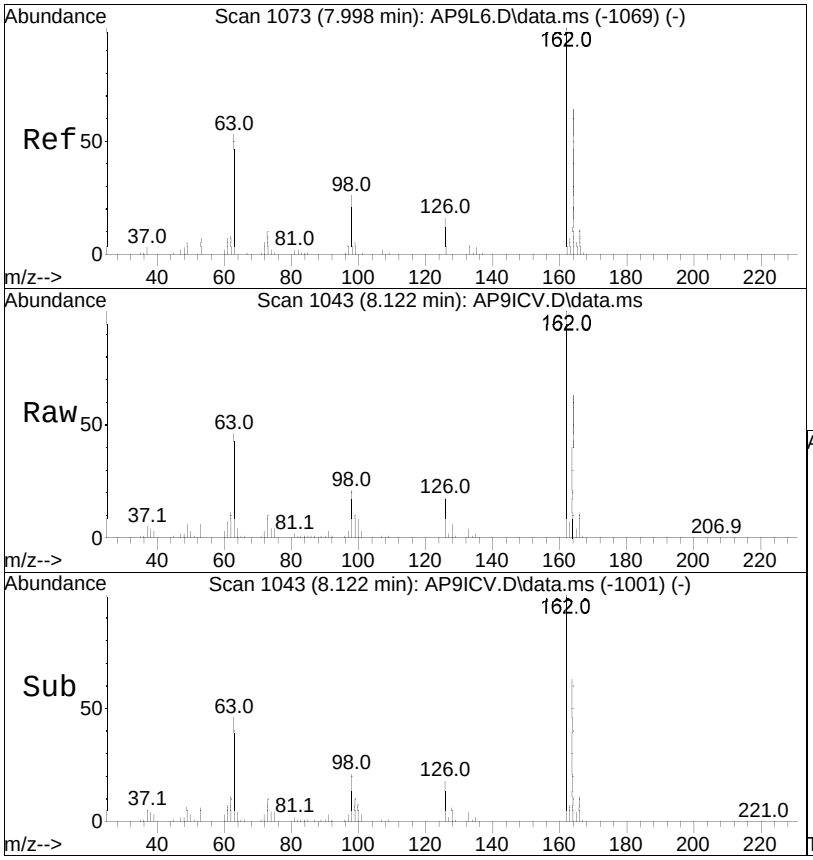


#57
3-Chloroaniline
Concen: 5.65 ug/ml
RT: 8.092 min Scan# 1038
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 10 Oct 2024 3:37 am

Tgt Ion: 65 Resp: 49908

Ion	Ratio	Lower	Upper
65	100		
127	310.5	243.2	364.8
129	98.1	78.8	118.2

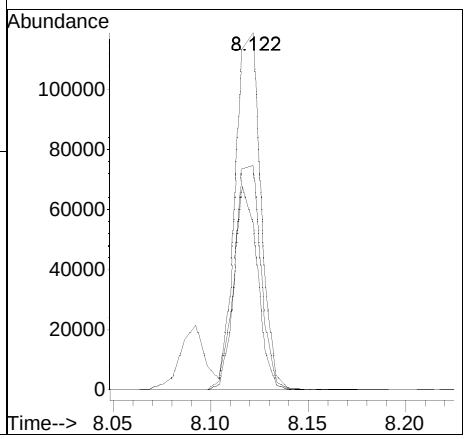


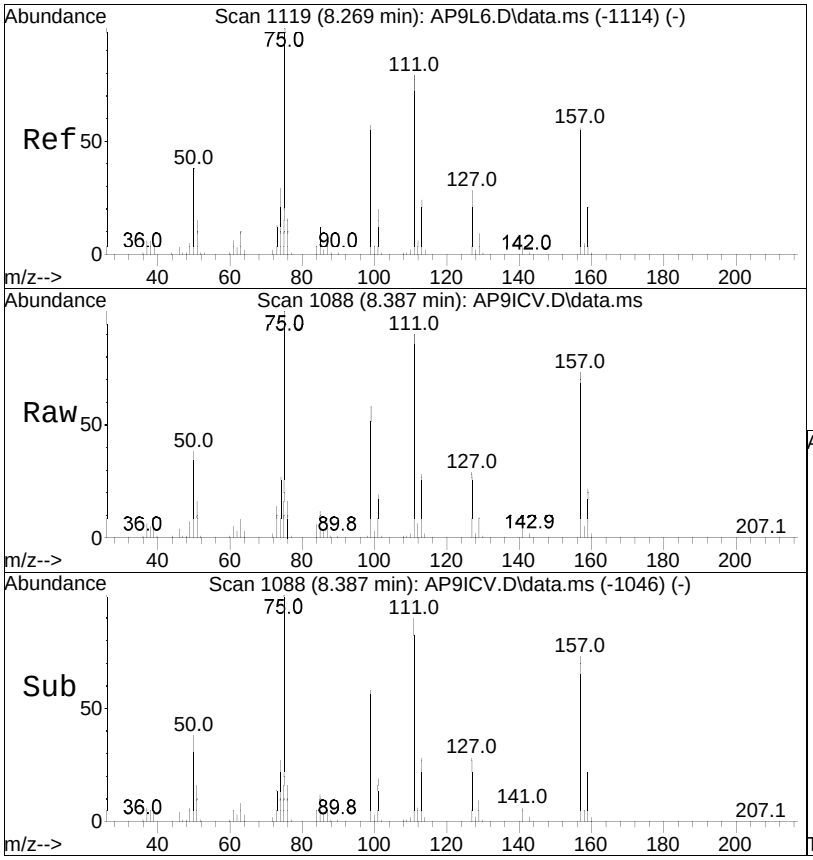


#58
2,6-Dichlorophenol
Concen: 5.46 ug/ml
RT: 8.122 min Scan# 1043
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 10 Oct 2024 3:37 am

Tgt Ion:162 Resp: 109210

Ion	Ratio	Lower	Upper
162	100		
164	63.2	51.1	76.7
63	52.7	60.8	91.2#

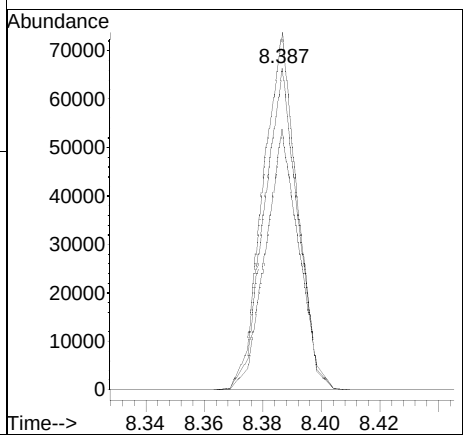


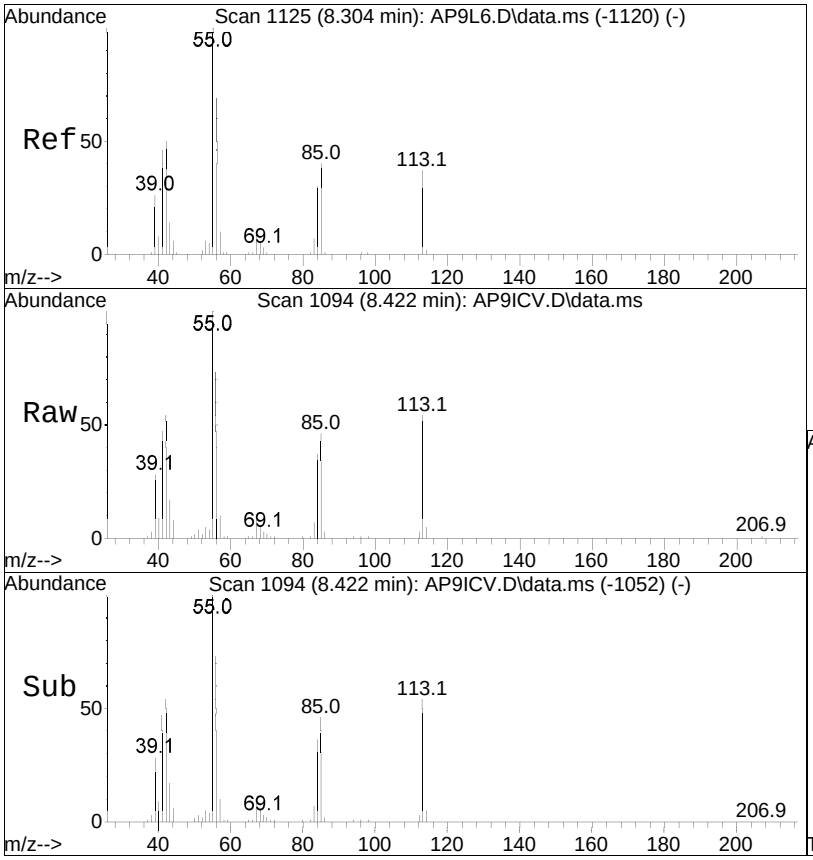


#59
1-chloro-2-nitrobenzene
Concen: 5.42 ug/ml
RT: 8.387 min Scan# 1088
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 10 Oct 2024 3:37 am

Tgt Ion:111 Resp: 52627

Ion	Ratio	Lower	Upper
111	100		
157	80.3	0.0	0.0#
75	112.7	28.2	42.2#

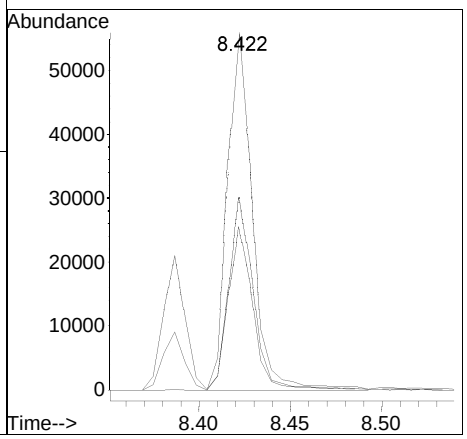


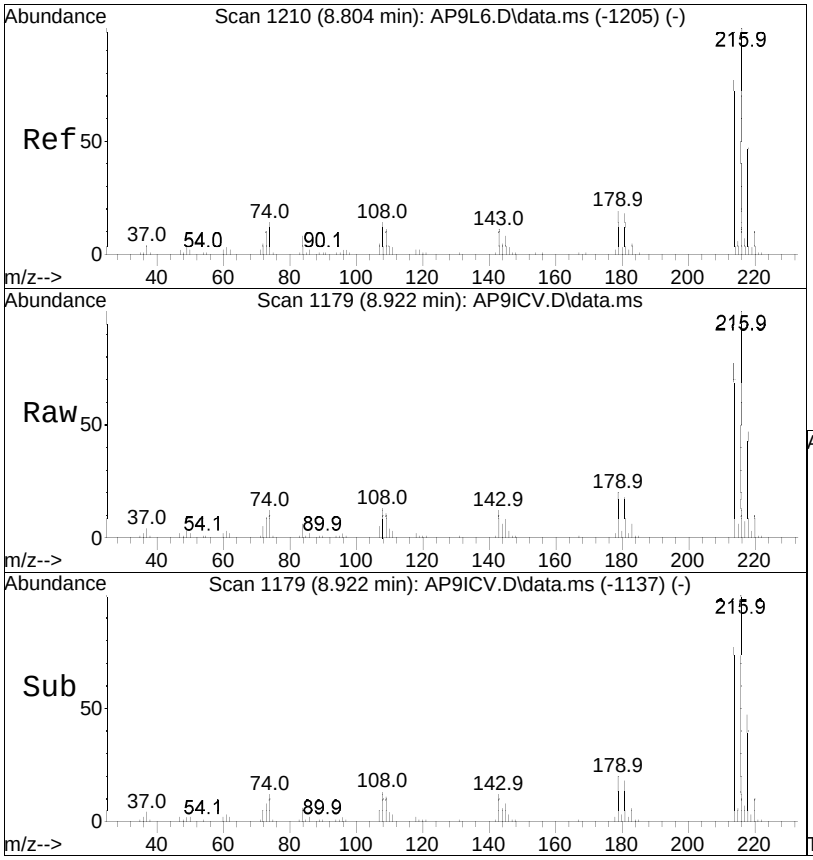


#60
Caprolactam
Concen: 5.42 ug/ml
RT: 8.422 min Scan# 1094
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 10 Oct 2024 3:37 am

Tgt Ion: 55 Resp: 53050

Ion	Ratio	Lower	Upper
55	100		
85	45.3	19.8	29.6#
113	53.3	29.6	44.4#

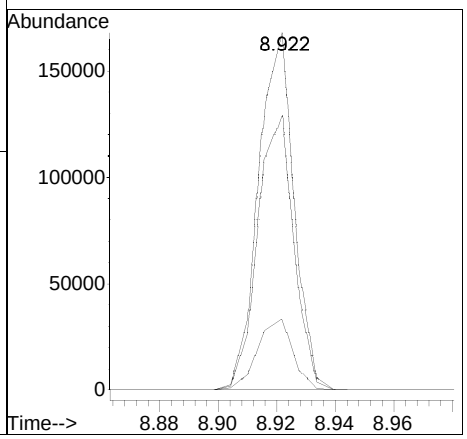


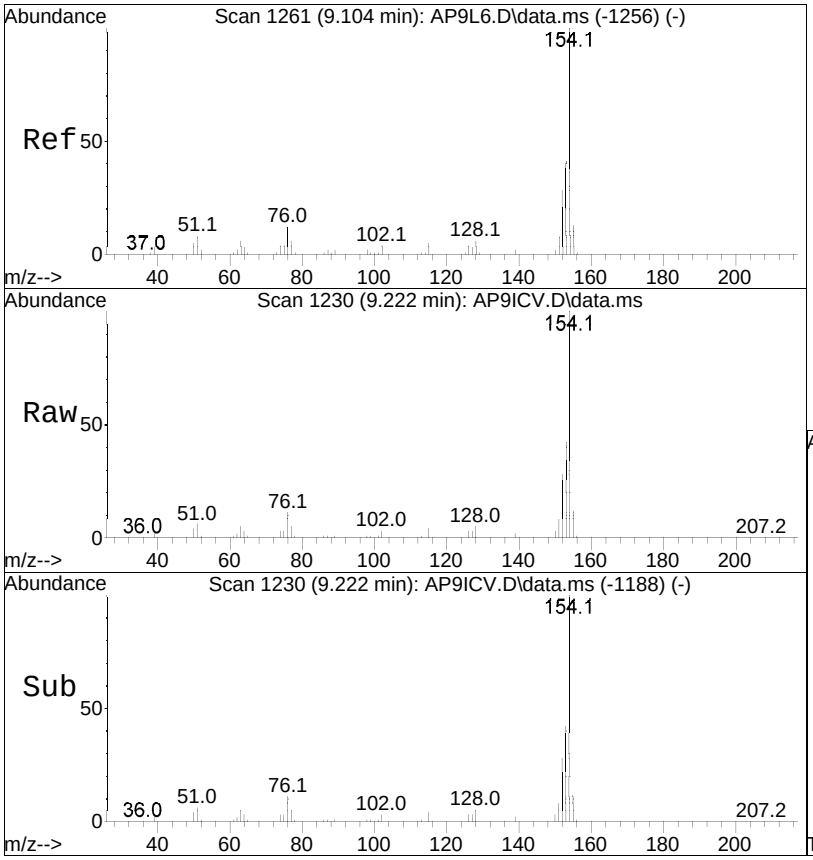


#61
1,2,4,5-Tetrachlorobenzene
Concen: 5.25 ug/ml
RT: 8.922 min Scan# 1179
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 10 Oct 2024 3:37 am

Tgt Ion:216 Resp: 140652

Ion	Ratio	Lower	Upper
216	100		
214	78.3	63.7	95.5
179	20.0	19.0	28.6

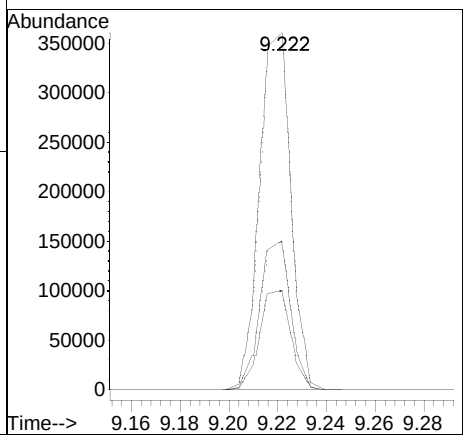


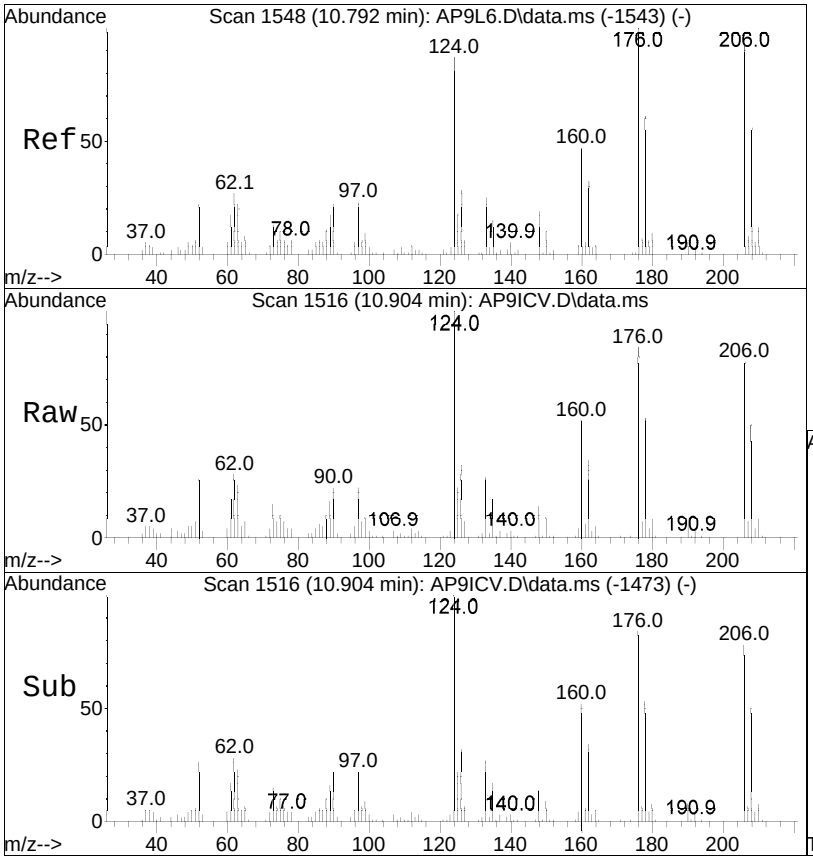


#62
Biphenyl
Concen: 5.29 ug/ml
RT: 9.222 min Scan# 1230
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 10 Oct 2024 3:37 am

Tgt Ion:154 Resp: 320073

Ion	Ratio	Lower	Upper
154	100		
153	41.1	32.3	48.5
152	28.1	22.5	33.7

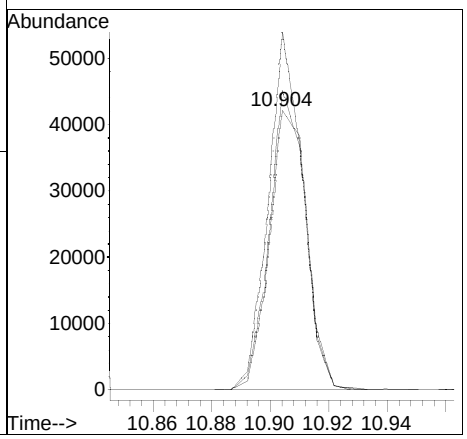


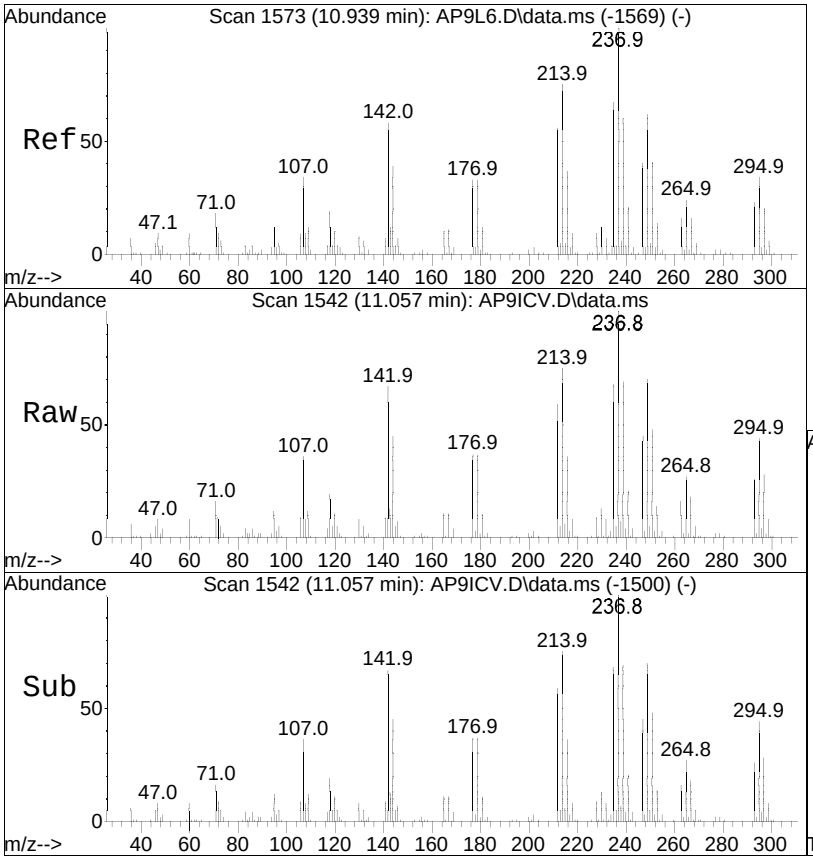


#84
Dichloran
Concen: 5.19 ug/ml
RT: 10.904 min Scan# 1516
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 10 Oct 2024 3:37 am

Tgt Ion:206 Resp: 37449

Ion	Ratio	Lower	Upper
206	100		
176	103.2	104.6	157.0#
124	116.2	130.5	195.7#

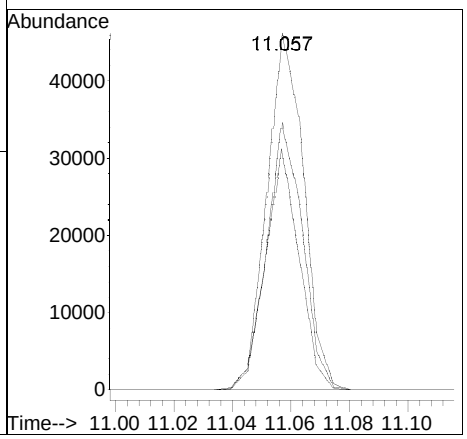


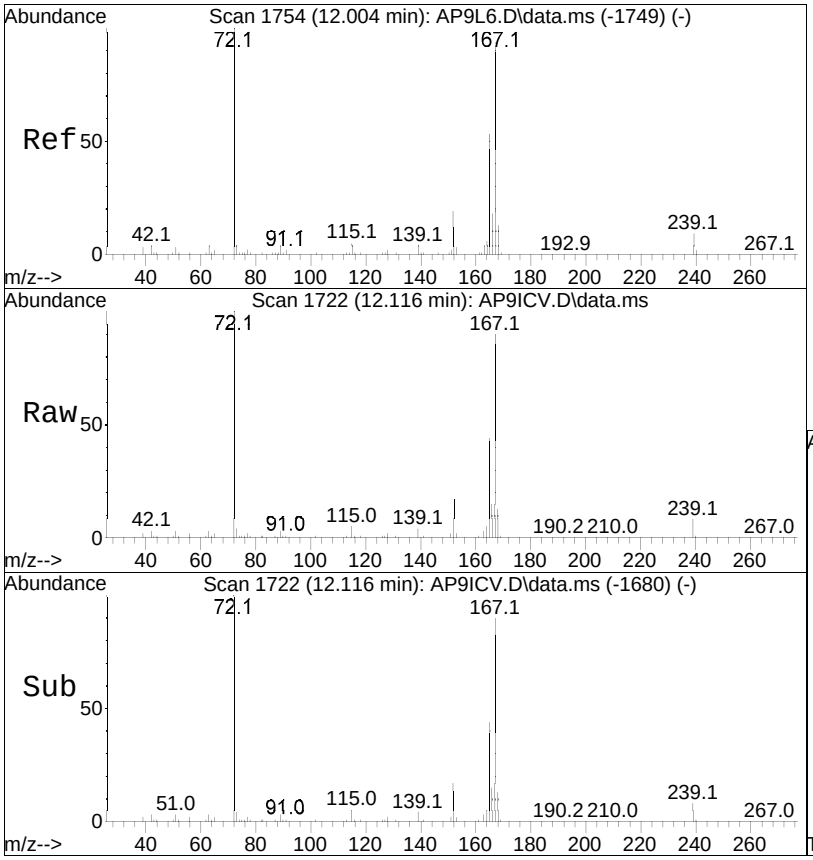


#85
Pentachloronitrobenzene
Concen: 5.23 ug/ml
RT: 11.057 min Scan# 1542
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 10 Oct 2024 3:37 am

Tgt Ion:237 Resp: 40333

Ion	Ratio	Lower	Upper
237	100		
142	62.1	77.0	115.4#
214	72.7	58.2	87.4

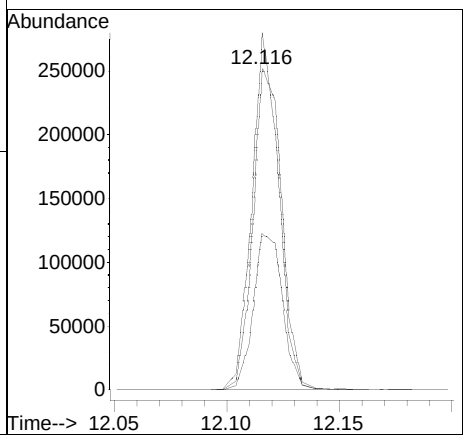




#99
Diphenamid
Concen: 5.41 ug/ml
RT: 12.116 min Scan# 1722
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 10 Oct 2024 3:37 am

Tgt Ion:167 Resp: 221467

Ion	Ratio	Lower	Upper
167	100		
72	103.0	109.7	164.5#
165	50.2	41.8	62.6



Manual Integration Report

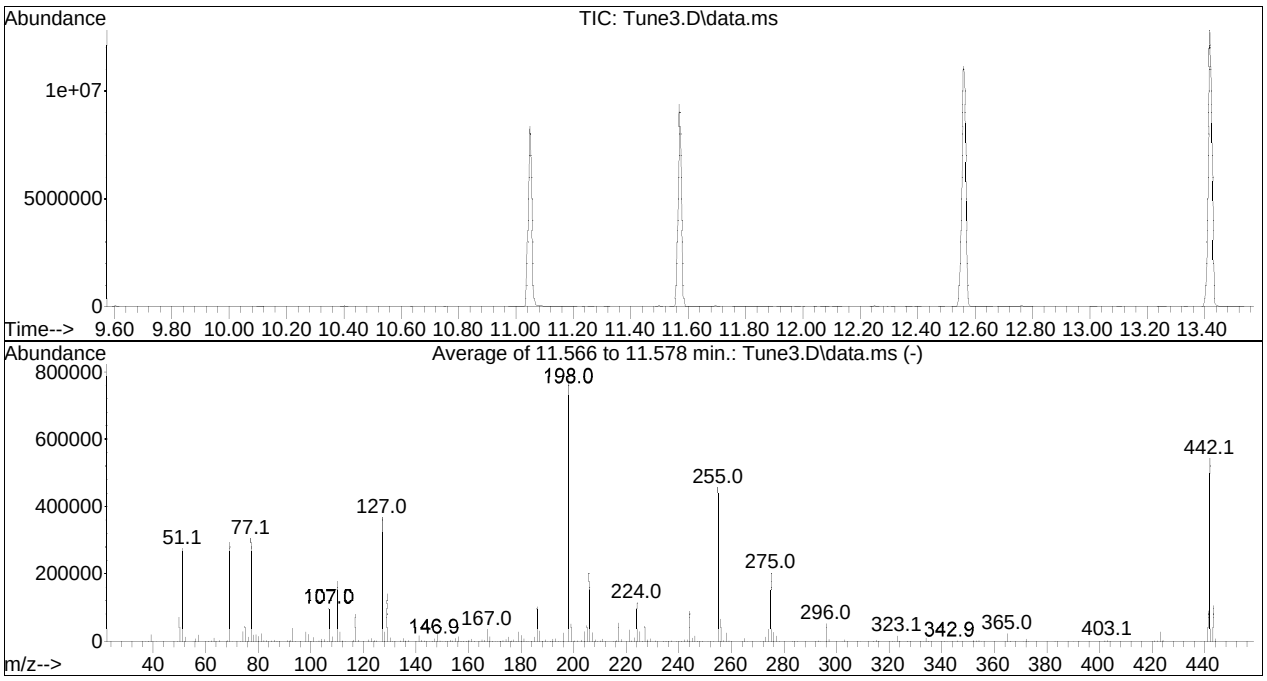
Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: AP9ICV.D	Operator	: SV106:HNY
Date Inj'd	: 10/10/2024 3:37 am	Instrument	: SV 106
Sample	: CQICV2,32,,AP9ICV Lot# 110	Quant Date	: 10/11/2024 12:13 pm

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

Data Path : I:\8270\SV106\241009RVTical\
Data File : Tune3.D
Acq On : 11 Oct 2024 12:20 pm
Operator : SV106:HNY
Sample : Tune3 Lot# 11080
Misc : WG1984388
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Oct 11 18:38:05 2024



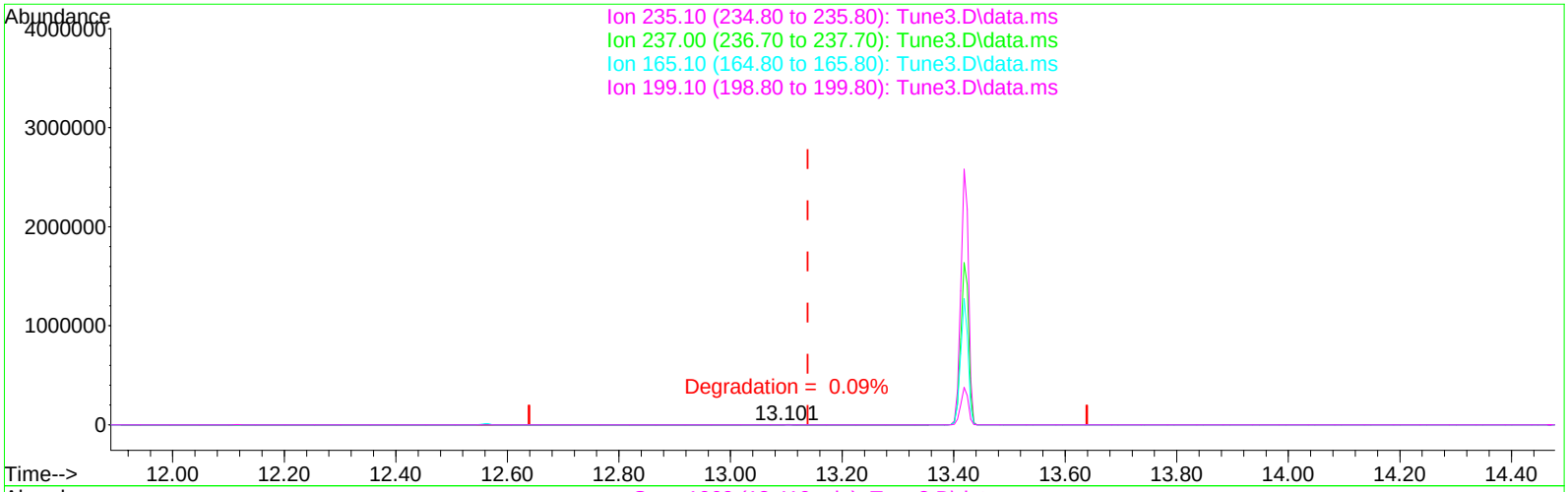
Spectrum Information: Average of 11.566 to 11.578 min.

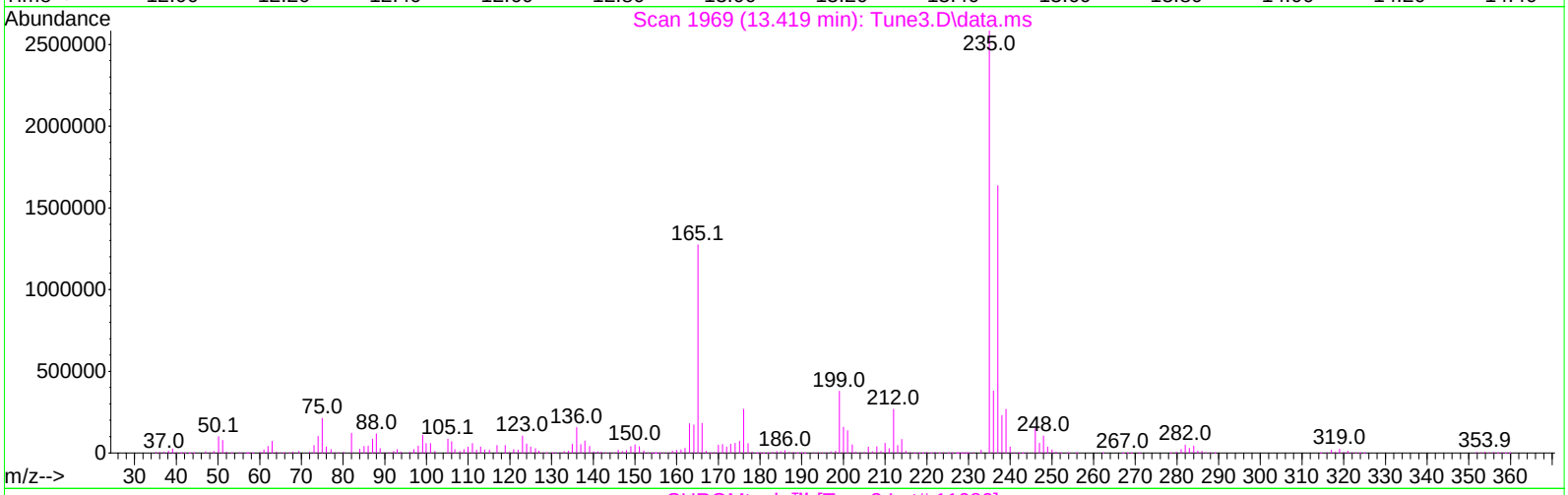
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	35.1	274715	PASS
68	69	0.00	2	1.6	4747	PASS
69	69	100	100	100.0	292965	PASS
70	69	0.00	2	0.5	1381	PASS
127	198	10	80	46.8	365867	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	782443	PASS
199	198	5	9	6.7	52056	PASS
275	198	10	60	25.8	202091	PASS
365	198	1	100	2.9	22768	PASS
441	442	0.01	24	16.5	89168	PASS
442	198	50	100	69.1	541013	PASS
443	442	15	24	19.3	104563	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\241009RVTical\
Data File : Tune3.D
Acq On : 11 Oct 2024 12:20 pm
Operator : SV106:HNY
Sample : Tune3 Lot# 11080
Misc : WG1984388
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 11 17:51:31 2024
Quant Method : I:\8270\SV106\241011RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 17:52:57 2024
Response via : Initial Calibration





CHROMtools™ [Tune3 Lot# 11080]

(6) DDT (T)

13.419min (+ 0.280) 405.47

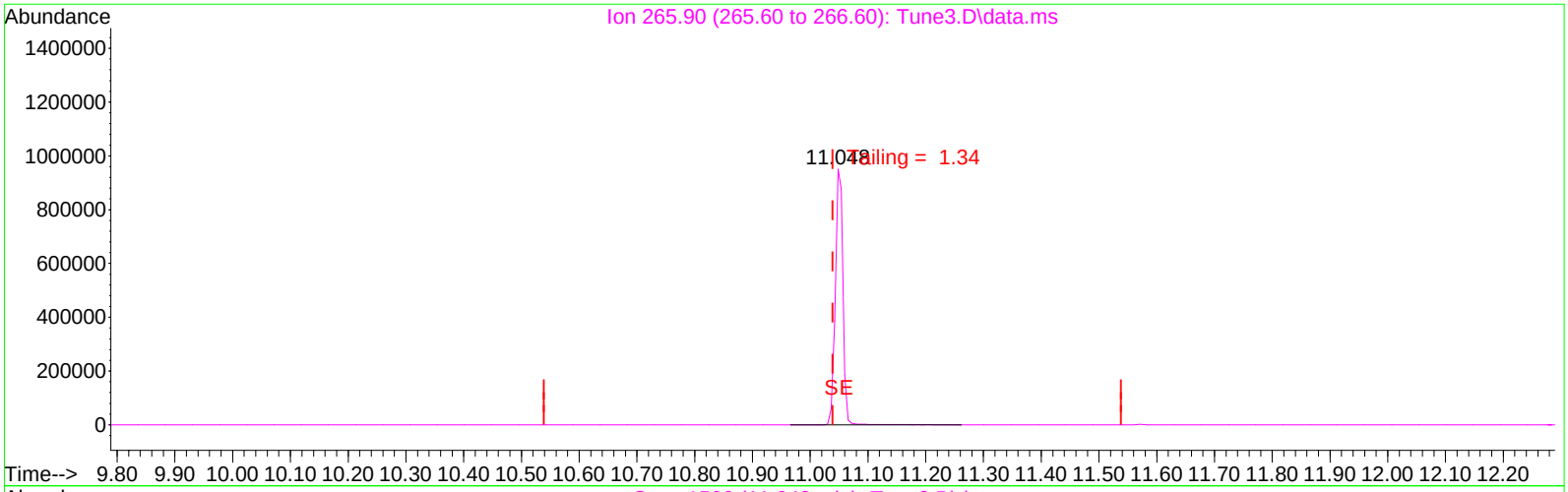
response 2471615

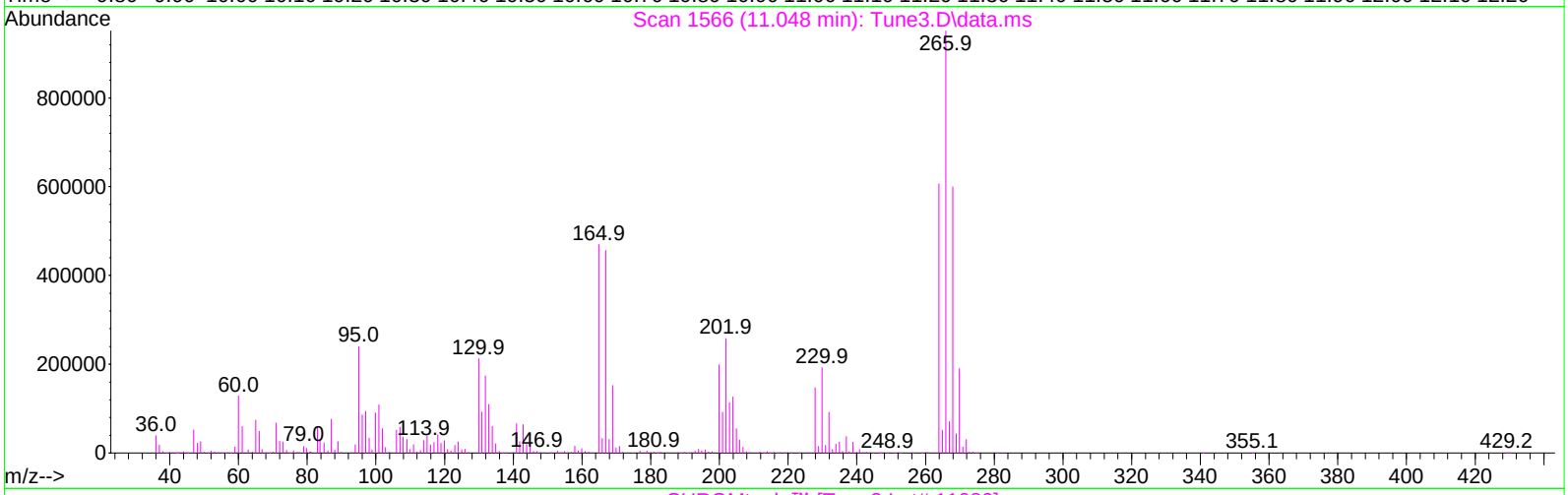
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.30	63.99
165.10	44.50	47.29
199.10	14.80	14.26

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\241009RVTical\
Data File : Tune3.D
Acq On : 11 Oct 2024 12:20 pm
Operator : SV106:HNY
Sample : Tune3 Lot# 11080
Misc : WG1984388
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 11 17:51:31 2024
Quant Method : I:\8270\SV106\241011RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 17:52:57 2024
Response via : Initial Calibration





CHROMtools™ [Tune3 Lot# 11080]

(1) Pentachlorophenol (T)

11.048min (+ 0.009) 420.41

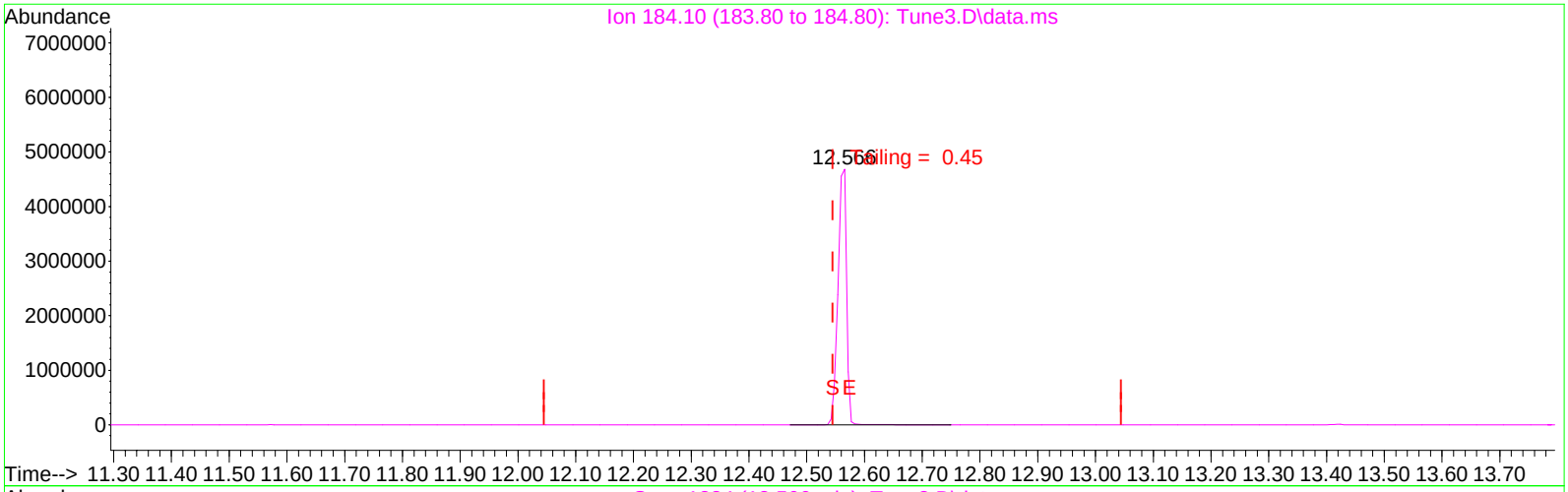
response 883002

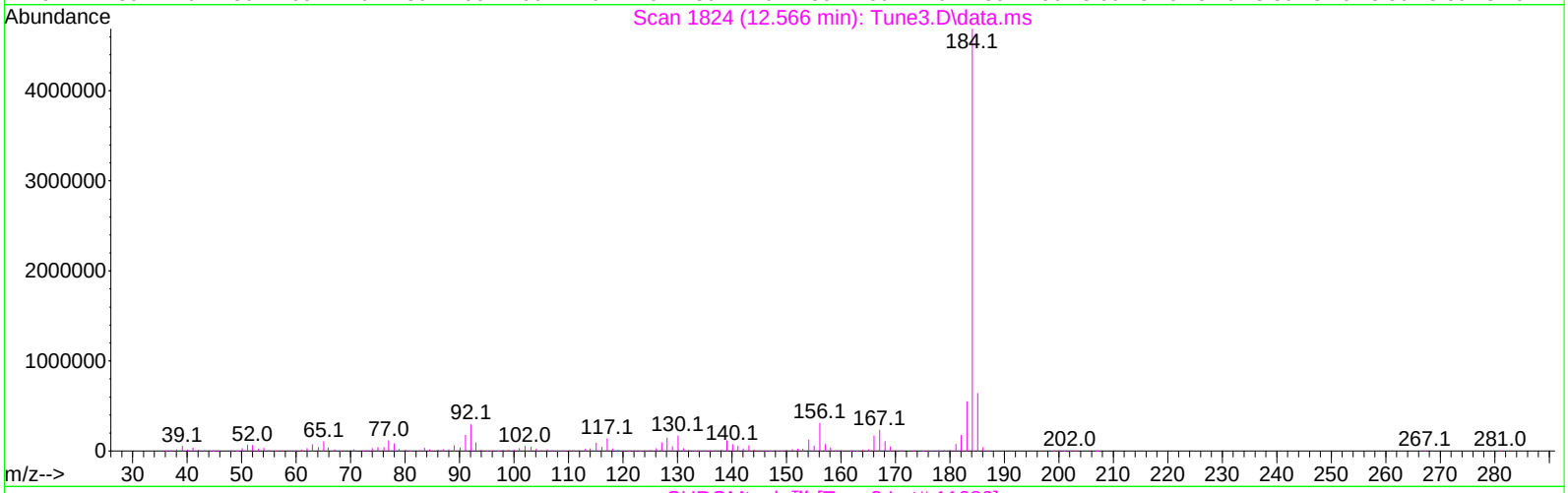
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\241009RVTical\
Data File : Tune3.D
Acq On : 11 Oct 2024 12:20 pm
Operator : SV106:HNY
Sample : Tune3 Lot# 11080
Misc : WG1984388
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 11 17:51:31 2024
Quant Method : I:\8270\SV106\241011RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 17:52:57 2024
Response via : Initial Calibration





CHROMtools™ [Tune3 Lot# 11080]

(3) Benzidine (T)

12.566min (+ 0.021) 470.83

response 4793063

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL9.D
Acq On : 11 Oct 2024 12:44 pm
Operator : SV106:HNY
Sample : IL2,32,,ADPL50 Lot# 11022
Misc : WG1984388
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 11 18:38:42 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241011RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.601	152	77314	4.000	ug/ml	0.00
Standard Area 1 = 83977			Recovery = 92.07%			
86) IS3_Acenaphthene-d10	9.772	164	172330	4.000	ug/ml	0.00
Standard Area 1 = 177498			Recovery = 97.09%			
100) IS3_Phenanthrene-d10	11.213	188	347488	4.000	ug/ml	0.00
Standard Area 1 = 353826			Recovery = 98.21%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	2.008	88	449898	47.947	ug/ml#	74
34) n-Decane	6.490	57	1465533	51.028	ug/ml#	42
87) Atrazine	10.989	200	995667	55.687	ug/ml	95
101) n-Octadecane	11.183	57	2256366	53.507	ug/ml#	1
102) Parathion	12.007	109	681058	49.562	ug/ml	98
103) 3,3'-Dimethylbenzidine	13.307	212	4168031	58.458	ug/ml	99

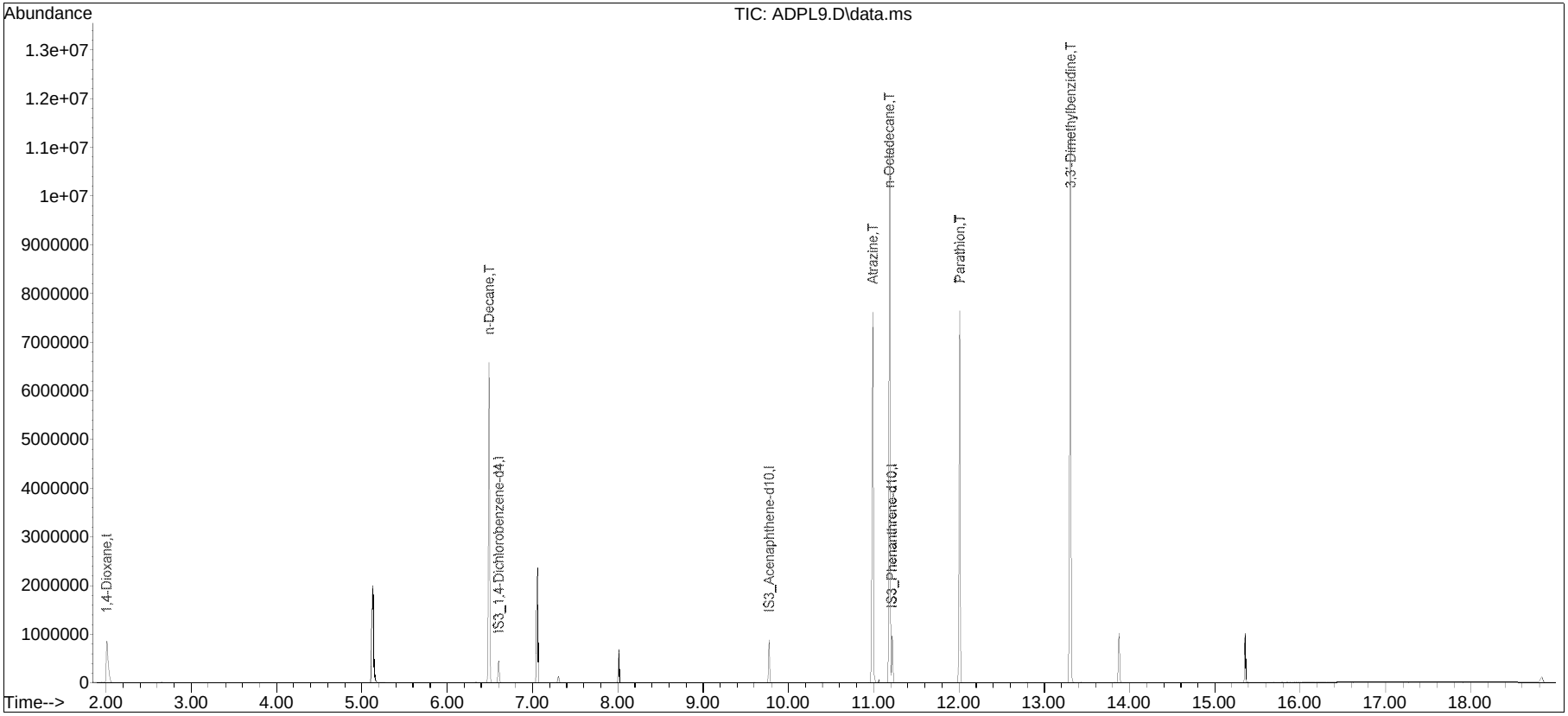
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL9.D
Acq On : 11 Oct 2024 12:44 pm
Operator : SV106:HNY
Sample : IL2,32,,ADPL50 Lot# 11022
Misc : WG1984388
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 11 18:38:42 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: ADPL9.D	Operator	: SV106:HNY
Date Inj'd	: 10/11/2024 12:44 pm	Instrument	: SV 106
Sample	: IL2,32,,ADPL50 Lot# 11022	Quant Date	: 10/11/2024 6:40 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL8.D
Acq On : 11 Oct 2024 1:07 pm
Operator : SV106:HNY
Sample : IL3,32,,ADPL25 Lot# 11023
Misc : WG1984388
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 11 18:38:31 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241011RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.601	152	79483	4.000	ug/ml	0.00
Standard Area 1 = 83977			Recovery =	94.65%		
86) IS3_Acenaphthene-d10	9.772	164	171838	4.000	ug/ml	0.00
Standard Area 1 = 177498			Recovery =	96.81%		
100) IS3_Phenanthrene-d10	11.213	188	349936	4.000	ug/ml	0.00
Standard Area 1 = 353826			Recovery =	98.90%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	2.013	88	226490	23.479	ug/ml#	75
34) n-Decane	6.489	57	729617	24.711	ug/ml#	42
87) Atrazine	10.983	200	485050	27.206	ug/ml	96
101) n-Octadecane	11.183	57	1120938	26.396	ug/ml#	1
102) Parathion	12.001	109	317731	26.192	ug/ml	98
103) 3,3'-Dimethylbenzidine	13.301	212	2096004	29.191	ug/ml	99

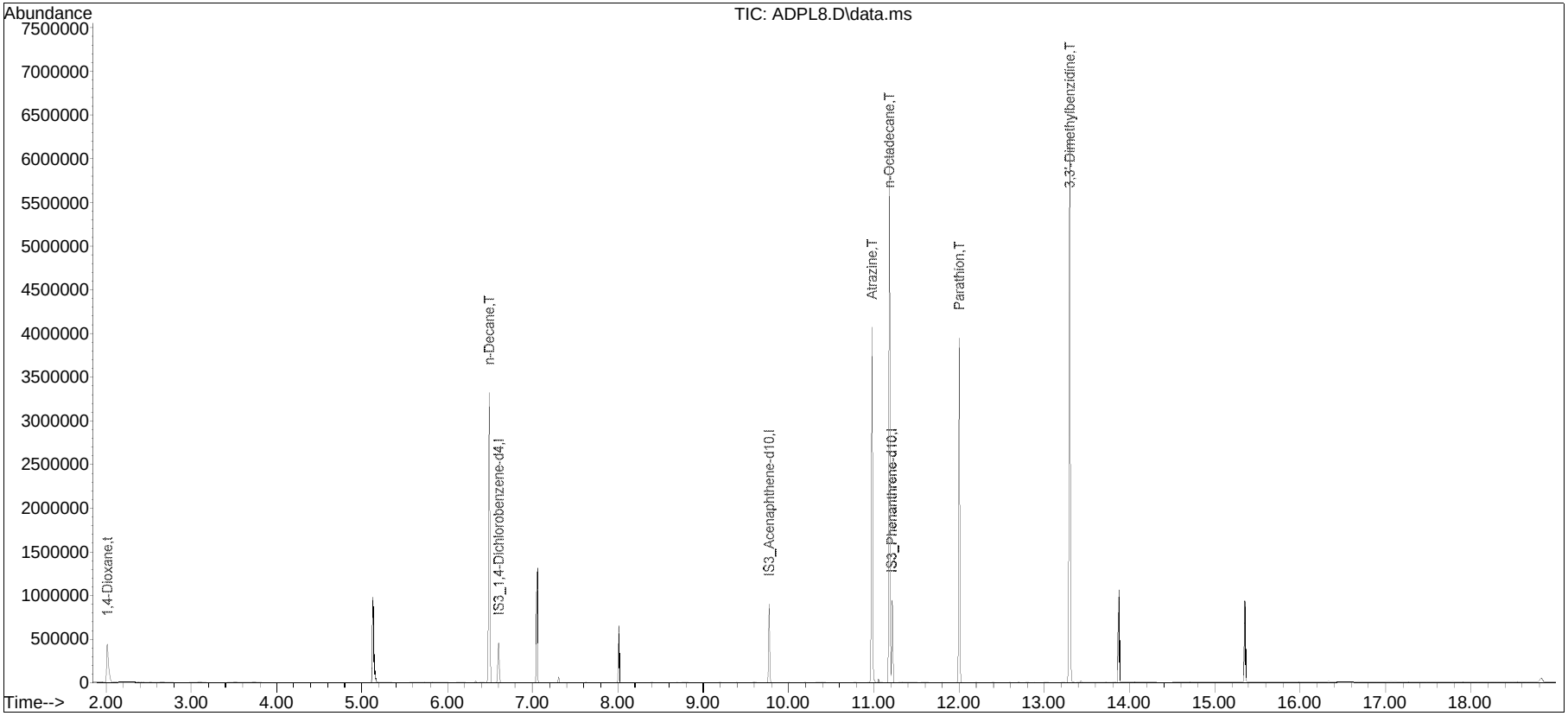
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL8.D
Acq On : 11 Oct 2024 1:07 pm
Operator : SV106:HNY
Sample : IL3,32,,ADPL25 Lot# 11023
Misc : WG1984388
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 11 18:38:31 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



FS241009SV106.m Tue Oct 15 09:32:30 2024 Page: 2

Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: ADPL8.D	Operator	: SV106:HNY
Date Inj'd	: 10/11/2024 1:07 pm	Instrument	: SV 106
Sample	: IL3,32,,ADPL25 Lot# 11023	Quant Date	: 10/11/2024 6:39 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL7.D
Acq On : 11 Oct 2024 1:31 pm
Operator : SV106:HNY
Sample : IL4,32,,ADPL10 Lot# 11024
Misc : WG1984388
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 11 18:38:20 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241011RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.601	152	79632	4.000	ug/ml	0.00
Standard Area 1 = 83977			Recovery = 94.83%			
86) IS3_Acenaphthene-d10	9.772	164	168371	4.000	ug/ml	0.00
Standard Area 1 = 177498			Recovery = 94.86%			
100) IS3_Phenanthrene-d10	11.213	188	340889	4.000	ug/ml	0.00
Standard Area 1 = 353826			Recovery = 96.34%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	2.013	88	91898	9.509	ug/ml#	76
34) n-Decane	6.489	57	296110	10.010	ug/ml#	42
87) Atrazine	10.977	200	177424	10.156	ug/ml	95
101) n-Octadecane	11.183	57	427042	10.323	ug/ml#	1
102) Parathion	12.001	109	106886	10.070	ug/ml	98
103) 3,3'-Dimethylbenzidine	13.295	212	763576	10.917	ug/ml	99

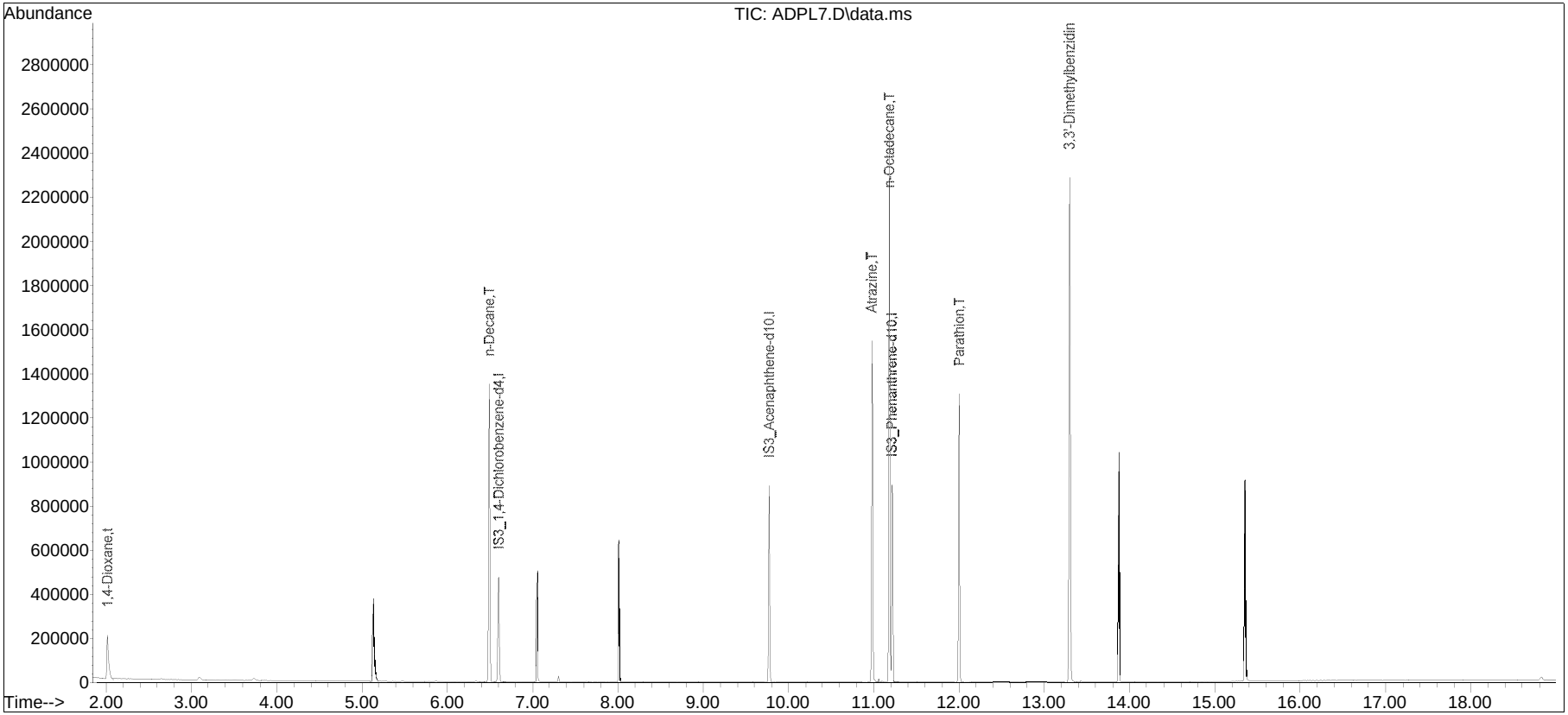
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL7.D
Acq On : 11 Oct 2024 1:31 pm
Operator : SV106:HNY
Sample : IL4,32,,ADPL10 Lot# 11024
Misc : WG1984388
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 11 18:38:20 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: ADPL7.D	Operator	: SV106:HNY
Date Inj'd	: 10/11/2024 1:31 pm	Instrument	: SV 106
Sample	: IL4,32,,ADPL10 Lot# 11024	Quant Date	: 10/11/2024 6:39 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL6.D
Acq On : 11 Oct 2024 1:55 pm
Operator : SV106:HNY
Sample : IL5,32,,ADPL5 Lot# 11025
Misc : WG1984388
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 11 18:38:09 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241011RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.601	152	83977	4.000	ug/ml	0.00
Standard Area 1 = 83977			Recovery =	100.00%		
86) IS3_Acenaphthene-d10	9.772	164	177498	4.000	ug/ml	0.00
Standard Area 1 = 177498			Recovery =	100.00%		
100) IS3_Phenanthrene-d10	11.213	188	353826	4.000	ug/ml	0.00
Standard Area 1 = 353826			Recovery =	100.00%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	2.013	88	41456	4.068	ug/ml#	73
34) n-Decane	6.490	57	133134	4.268	ug/ml#	42
87) Atrazine	10.978	200	87448	4.748	ug/ml	95
101) n-Octadecane	11.183	57	213685	4.976	ug/ml#	1
102) Parathion	11.995	109	45931	4.395	ug/ml	98
103) 3,3'-Dimethylbenzidine	13.295	212	330565	4.553	ug/ml	99

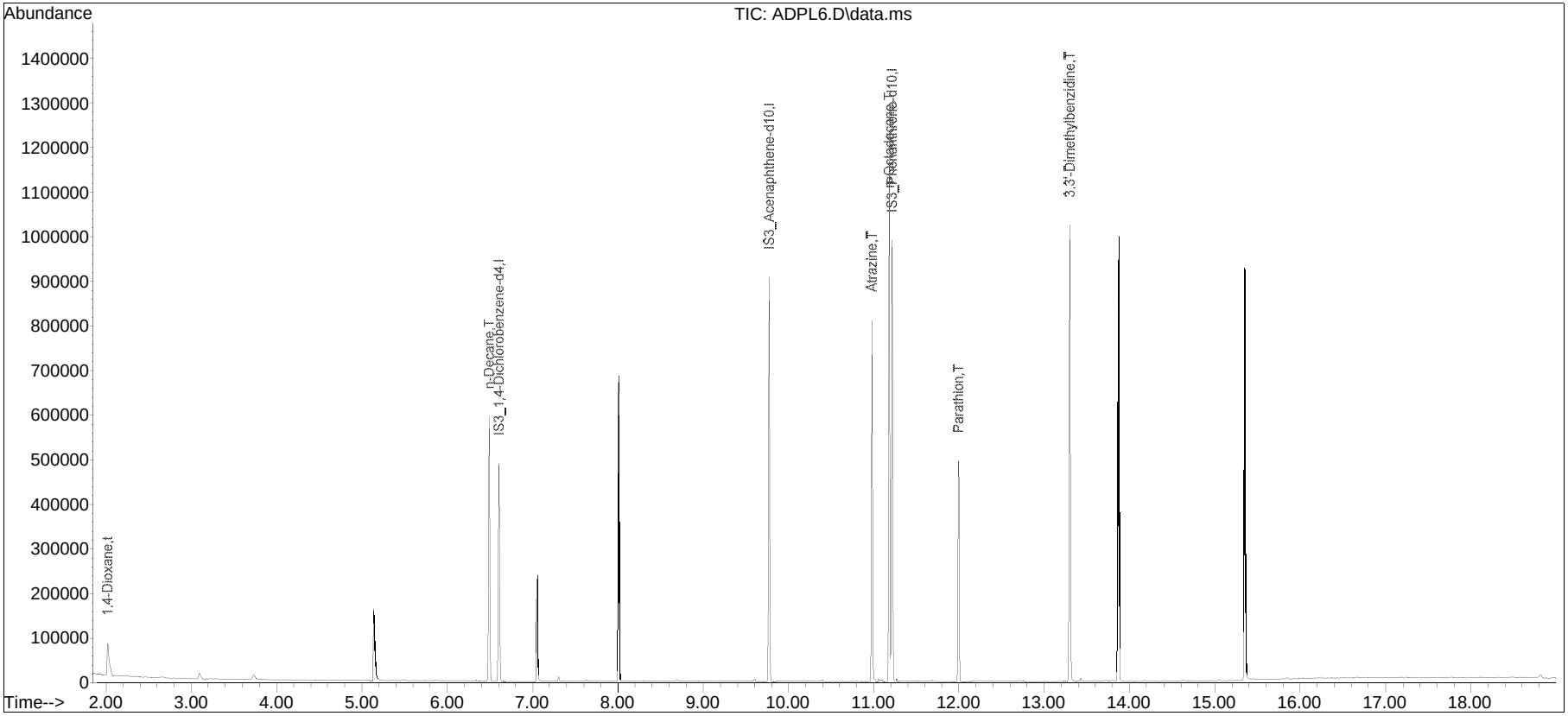
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL6.D
Acq On : 11 Oct 2024 1:55 pm
Operator : SV106:HNY
Sample : IL5,32,,ADPL5 Lot# 11025
Misc : WG1984388
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 11 18:38:09 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: ADPL6.D	Operator	: SV106:HNY
Date Inj'd	: 10/11/2024 1:55 pm	Instrument	: SV 106
Sample	: IL5,32,,ADPL5 Lot# 11025	Quant Date	: 10/11/2024 6:39 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL5.D
Acq On : 11 Oct 2024 2:18 pm
Operator : SV106:HNY
Sample : IL6,32,,ADPL2.5 Lot# 11026
Misc : WG1984388
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 11 18:37:58 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241011RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
32) IS3_1,4-Dichlorobenzen...	6.601	152	81139	4.000	ug/ml		0.00
Standard Area 1 = 83977			Recovery = 96.62%				
86) IS3_Acenaphthene-d10	9.772	164	168837	4.000	ug/ml		0.00
Standard Area 1 = 177498			Recovery = 95.12%				
100) IS3_Phenanthrene-d10	11.213	188	341165	4.000	ug/ml	#	0.00
Standard Area 1 = 353826			Recovery = 96.42%				
System Monitoring Compounds							
Target Compounds							Qvalue
33) 1,4-Dioxane	2.025	88	22249	2.259	ug/ml	#	76
34) n-Decane	6.490	57	71357	2.367	ug/ml	#	43
87) Atrazine	10.977	200	42829	2.445	ug/ml		95
101) n-Octadecane	11.183	57	102021	2.464	ug/ml	#	1
102) Parathion	11.995	109	20596	2.136	ug/ml		95
103) 3,3'-Dimethylbenzidine	13.295	212	149664	2.138	ug/ml		99

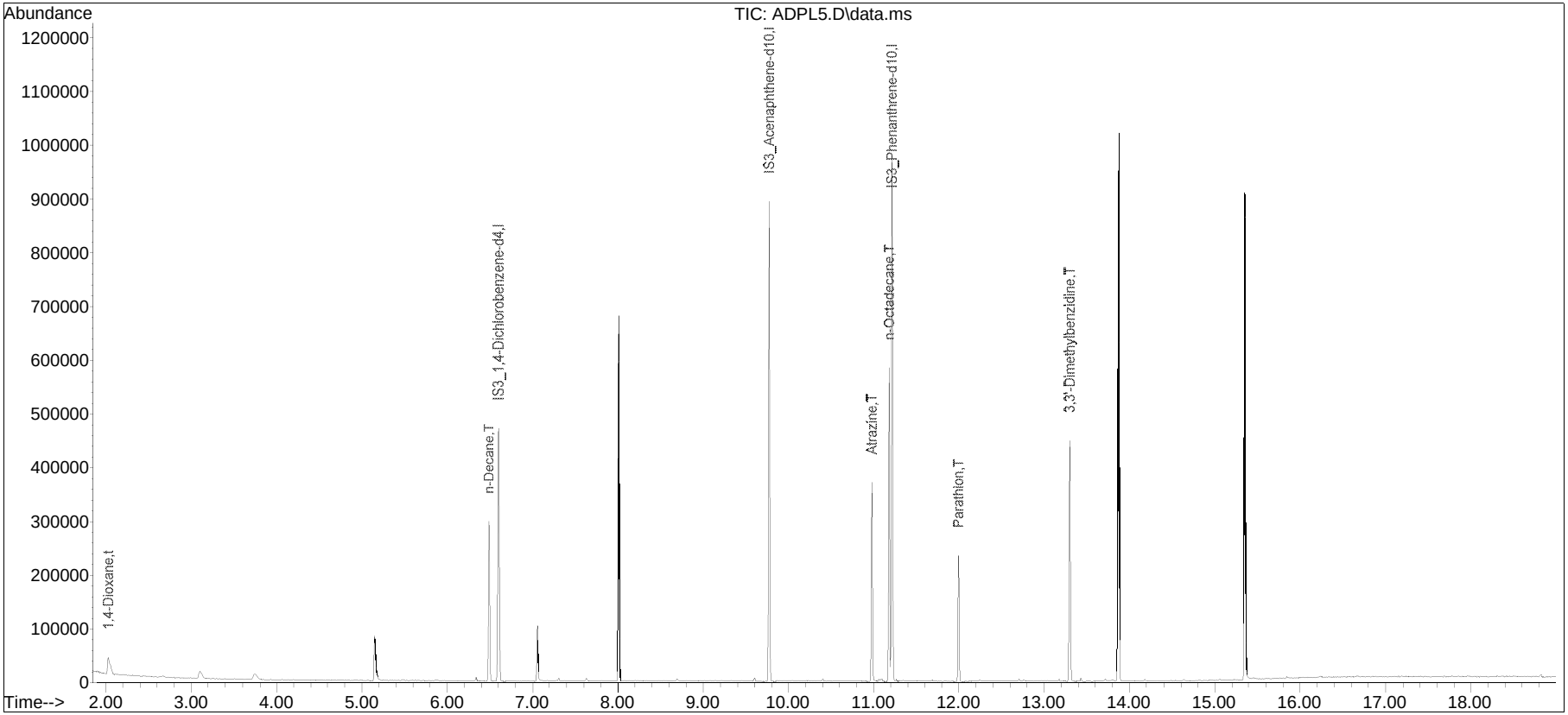
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL5.D
Acq On : 11 Oct 2024 2:18 pm
Operator : SV106:HNY
Sample : IL6,32,,ADPL2.5 Lot# 11026
Misc : WG1984388
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 11 18:37:58 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: ADPL5.D	Operator	: SV106:HNY
Date Inj'd	: 10/11/2024 2:18 pm	Instrument	: SV 106
Sample	: IL6,32,,ADPL2.5 Lot# 11026	Quant Date	: 10/11/2024 6:39 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL4.D
Acq On : 11 Oct 2024 2:42 pm
Operator : SV106:HNY
Sample : IL7,32,,ADPL1 Lot# 11027
Misc : WG1984388
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 11 18:37:47 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241011RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
32) IS3_1,4-Dichlorobenzen...	6.601	152	84735	4.000 ug/ml	0.00
Standard Area 1 = 83977			Recovery = 100.90%		
86) IS3_Acenaphthene-d10	9.772	164	180291	4.000 ug/ml	0.00
Standard Area 1 = 177498			Recovery = 101.57%		
100) IS3_Phenanthrene-d10	11.213	188	366685	4.000 ug/ml	0.00
Standard Area 1 = 353826			Recovery = 103.63%		
System Monitoring Compounds					
Target Compounds					Qvalue
33) 1,4-Dioxane	2.019	88	12868	1.251 ug/ml#	78
34) n-Decane	6.489	57	40689	1.293 ug/ml#	42
87) Atrazine	10.977	200	21547	1.152 ug/ml	92
101) n-Octadecane	11.183	57	52423	1.178 ug/ml#	1
102) Parathion	11.995	109	10400	1.071 ug/ml	98
103) 3,3'-Dimethylbenzidine	13.295	212	73345	0.975 ug/ml	99

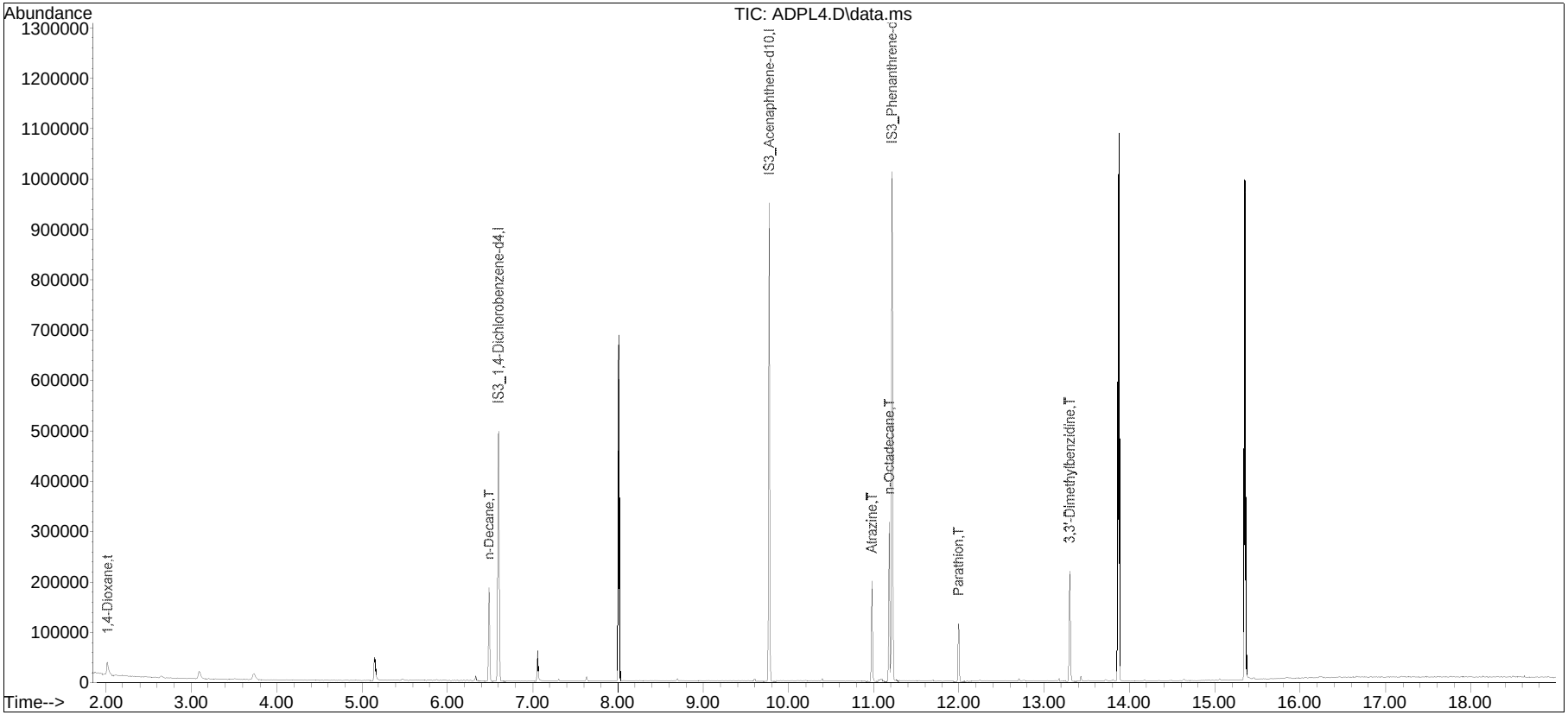
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL4.D
Acq On : 11 Oct 2024 2:42 pm
Operator : SV106:HNY
Sample : IL7,32,,ADPL1 Lot# 11027
Misc : WG1984388
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 11 18:37:47 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: ADPL4.D	Operator	: SV106:HNY
Date Inj'd	: 10/11/2024 2:42 pm	Instrument	: SV 106
Sample	: IL7,32,,ADPL1 Lot# 11027	Quant Date	: 10/11/2024 6:39 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL3.D
Acq On : 11 Oct 2024 3:06 pm
Operator : SV106:HNY
Sample : IL8,32,,ADPL0.5 Lot# 11028
Misc : WG1984388
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 11 18:37:37 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241011RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.601	152	91857	4.000	ug/ml	0.00
Standard Area 1 = 83977			Recovery =	109.38%		
86) IS3_Acenaphthene-d10	9.772	164	194378	4.000	ug/ml	0.00
Standard Area 1 = 177498			Recovery =	109.51%		
100) IS3_Phenanthrene-d10	11.213	188	393088	4.000	ug/ml	0.00
Standard Area 1 = 353826			Recovery =	111.10%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	2.025	88	5172	0.464	ug/ml#	75
34) n-Decane	6.490	57	15097	0.442	ug/ml#	41
87) Atrazine	10.977	200	8023	0.398	ug/ml#	90
101) n-Octadecane	11.183	57	18924	0.397	ug/ml#	1
102) Parathion	11.995	109	3743	0.437	ug/ml	89
103) 3,3'-Dimethylbenzidine	13.295	212	21912	0.272	ug/ml	98

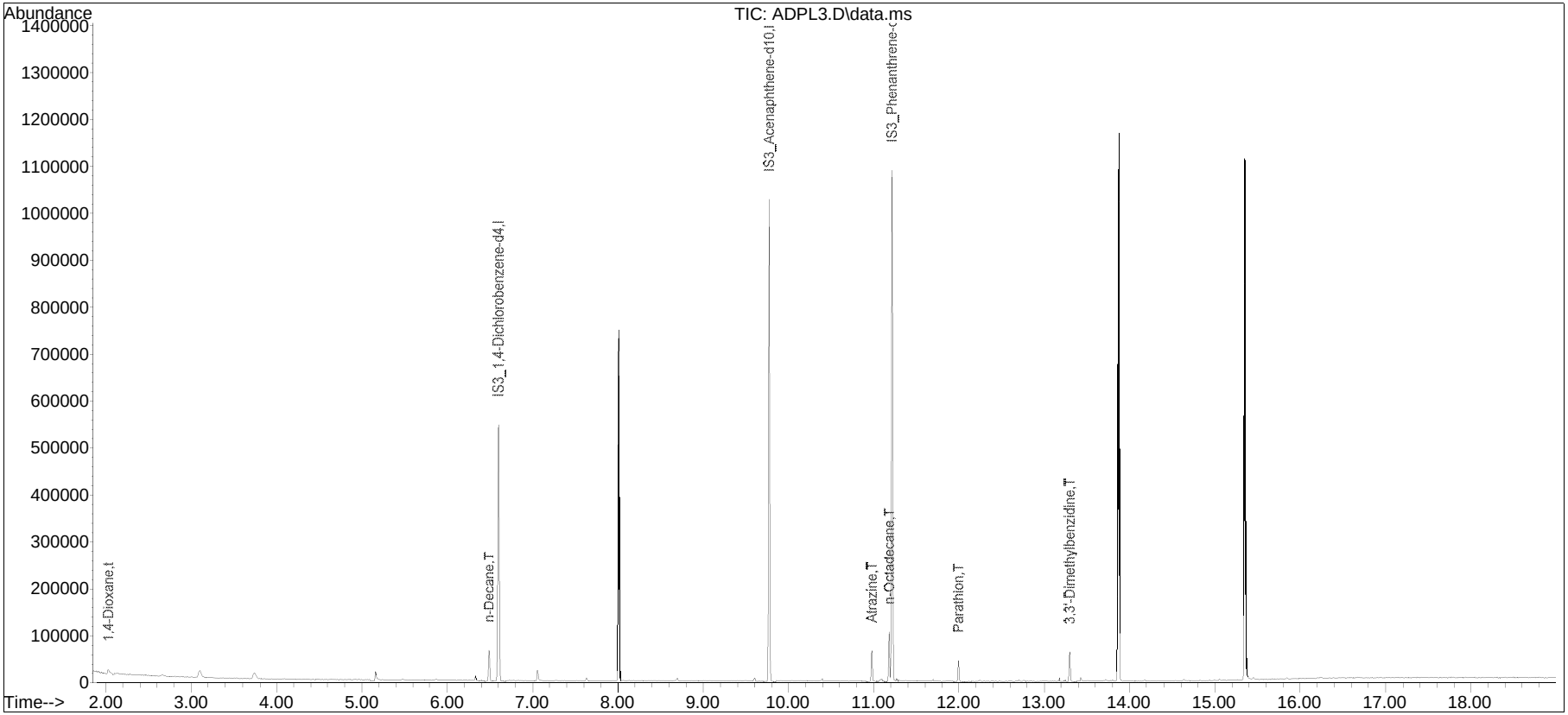
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL3.D
Acq On : 11 Oct 2024 3:06 pm
Operator : SV106:HNY
Sample : IL8,32,,ADPL0.5 Lot# 11028
Misc : WG1984388
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 11 18:37:37 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: ADPL3.D	Operator	: SV106:HNY
Date Inj'd	: 10/11/2024 3:06 pm	Instrument	: SV 106
Sample	: IL8,32,,ADPL0.5 Lot# 11028	Quant Date	: 10/11/2024 6:39 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL2.D
Acq On : 11 Oct 2024 3:29 pm
Operator : SV106:HNY
Sample : IL9,32,,ADPL0.2 Lot# 11029
Misc : WG1984388
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 11 18:37:27 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241011RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.601	152	78513	4.000	ug/ml	0.00
Standard Area 1 = 83977			Recovery = 93.49%			
86) IS3_Acenaphthene-d10	9.772	164	165260	4.000	ug/ml	0.00
Standard Area 1 = 177498			Recovery = 93.11%			
100) IS3_Phenanthrene-d10	11.213	188	331195	4.000	ug/ml	0.00
Standard Area 1 = 353826			Recovery = 93.60%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	2.025	88	2391	0.251	ug/ml#	86
34) n-Decane	6.489	57	5903	0.202	ug/ml#	40
87) Atrazine	10.977	200	3111	0.181	ug/ml	92
101) n-Octadecane	11.183	57	7149	0.178	ug/ml#	1
102) Parathion	11.995	109	1374	0.255	ug/ml	86
103) 3,3'-Dimethylbenzidine	13.295	212	7380	0.109	ug/ml	98

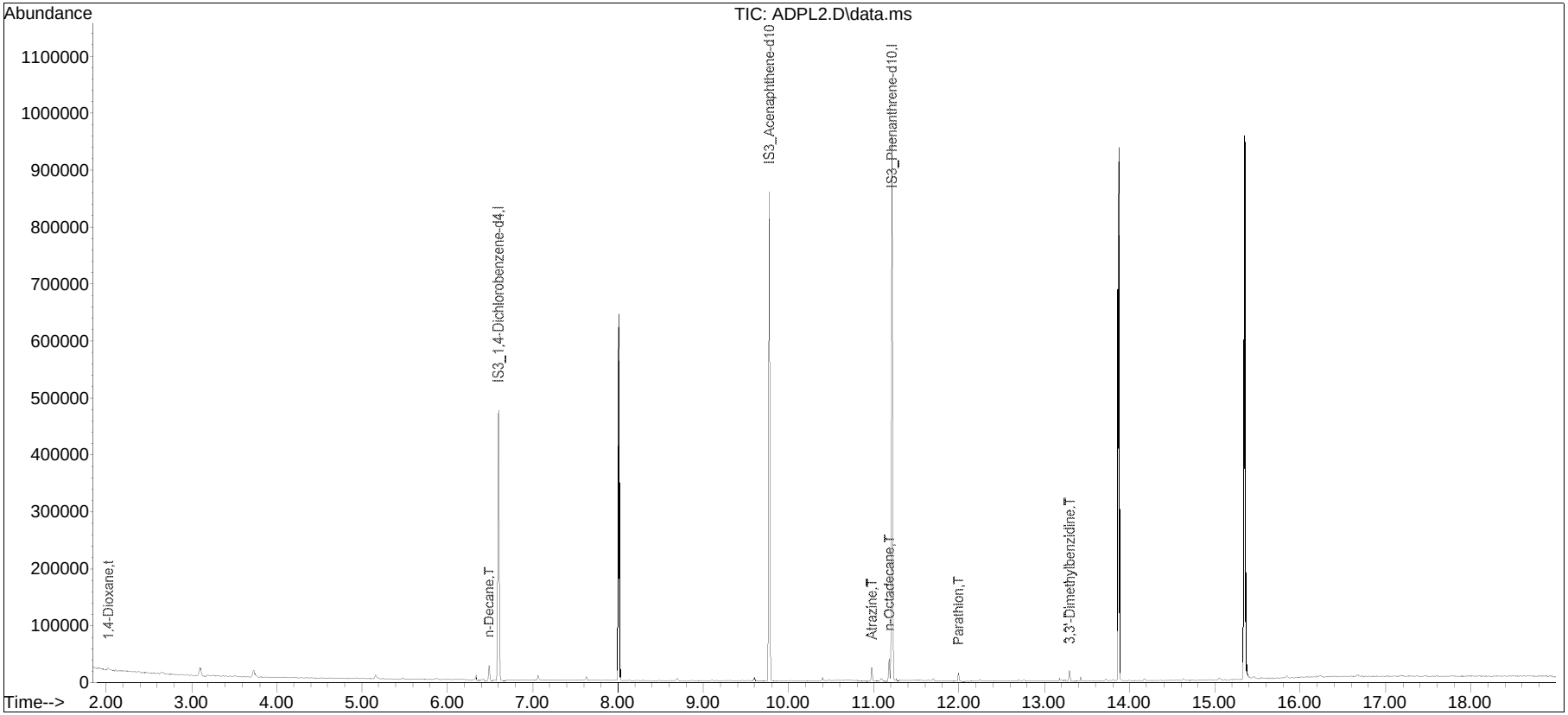
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL2.D
Acq On : 11 Oct 2024 3:29 pm
Operator : SV106:HNY
Sample : IL9,32,,ADPL0.2 Lot# 11029
Misc : WG1984388
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 11 18:37:27 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: ADPL2.D	Operator	: SV106:HNY
Date Inj'd	: 10/11/2024 3:29 pm	Instrument	: SV 106
Sample	: IL9,32,,ADPL0.2 Lot# 11029	Quant Date	: 10/11/2024 6:38 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL1.D
Acq On : 11 Oct 2024 3:53 pm
Operator : SV106:HNY
Sample : IL10,32,,ADPL0.1 Lot# 11030
Misc : WG1984388
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 11 18:37:16 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241011RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.601	152	79565	4.000	ug/ml	0.00
Standard Area 1 = 83977			Recovery = 94.75%			
86) IS3_Acenaphthene-d10	9.772	164	172907	4.000	ug/ml	0.00
Standard Area 1 = 177498			Recovery = 97.41%			
100) IS3_Phenanthrene-d10	11.213	188	339068	4.000	ug/ml	0.00
Standard Area 1 = 353826			Recovery = 95.83%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	2.019	88	2741	0.284	ug/ml	96
34) n-Decane	6.490	57	6338	0.214	ug/ml#	41
87) Atrazine	10.977	200	2926	0.163	ug/ml	97
101) n-Octadecane	11.183	57	6808	0.165	ug/ml#	1
102) Parathion	11.995	109	1594	0.274	ug/ml#	84
103) 3,3'-Dimethylbenzidine	13.289	212	7116	0.102	ug/ml	99

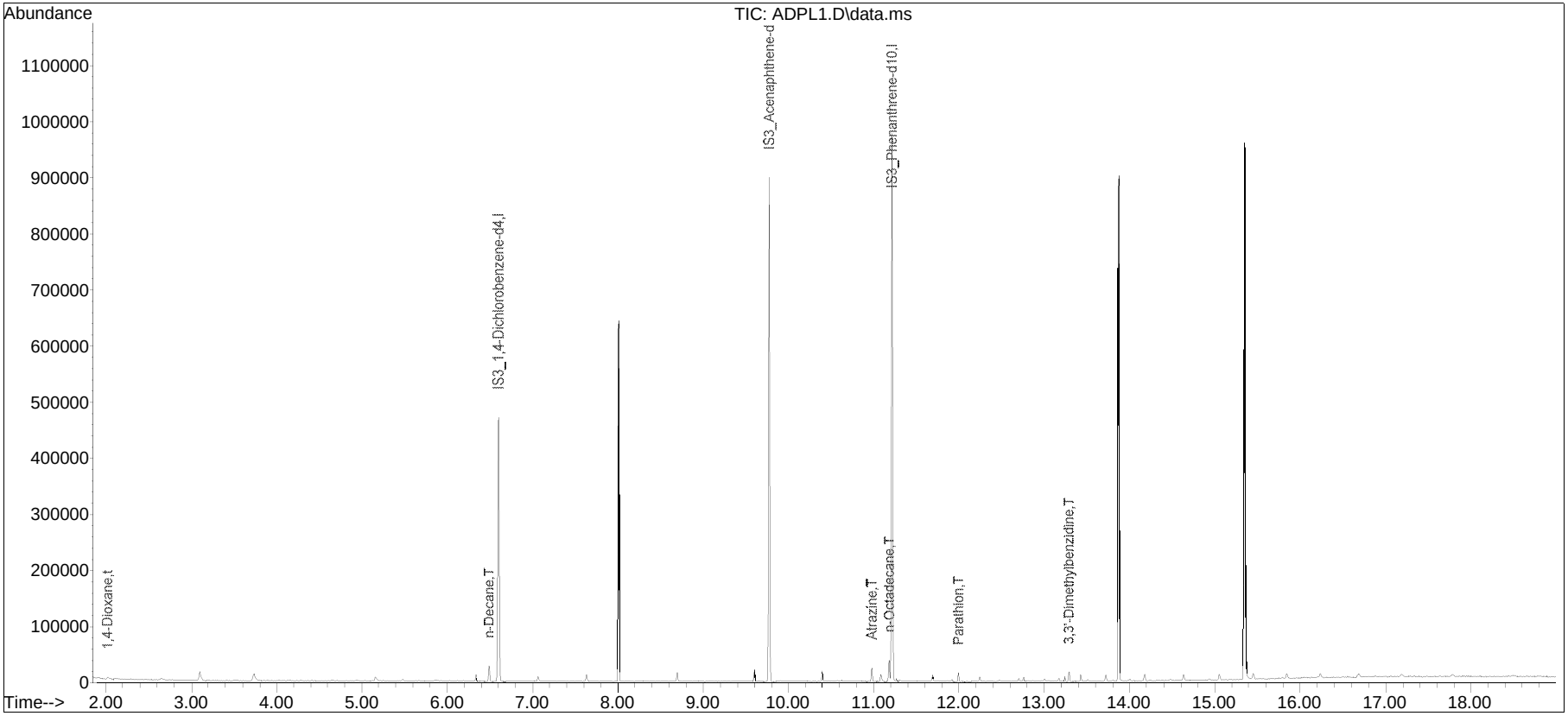
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL1.D
Acq On : 11 Oct 2024 3:53 pm
Operator : SV106:HNY
Sample : IL10,32,,ADPL0.1 Lot# 11030
Misc : WG1984388
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 11 18:37:16 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: ADPL1.D	Operator	: SV106:HNY
Date Inj'd	: 10/11/2024 3:53 pm	Instrument	: SV 106
Sample	: IL10,32,,ADPL0.1 Lot# 1103	Quant Date	: 10/11/2024 6:38 pm

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPICV.D
Acq On : 11 Oct 2024 4:16 pm
Operator : SV106:HNY
Sample : CQICV3,32,,ADPICV Lot# 11033
Misc : WG1984388
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 11 18:37:07 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 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	83	0.00
33	t	1,4-Dioxane		0.485	0.475	2.1	100	0.00
34	T	n-Decane		1.486	1.563	-5.2	102	0.00
86	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	85	0.00
87	T	Atrazine		0.415	0.328	21.0#	71	0.00
100	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	81	0.00
101	T	n-Octadecane		0.485	0.485	0.0	82	0.00
102	T	Parathion	*	5.000	3.976	20.5	73	0.00
103	T	3,3'-Dimethylbenzidine		0.821	0.594	27.6#	65	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPICV.D
Acq On : 11 Oct 2024 4:16 pm
Operator : SV106:HNY
Sample : CQICV3,32,,ADPICV Lot# 11033
Misc : WG1984388
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 11 18:37:07 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241011RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.601	152	69792	4.000	ug/ml	0.00
Standard Area 1 = 83977			Recovery = 83.11%			
86) IS3_Acenaphthene-d10	9.772	164	150496	4.000	ug/ml	0.00
Standard Area 1 = 177498			Recovery = 84.79%			
100) IS3_Phenanthrene-d10	11.213	188	287401	4.000	ug/ml	# 0.00
Standard Area 1 = 353826			Recovery = 81.23%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	2.008	88	41435	4.892	ug/ml#	75
34) n-Decane	6.490	57	136314	5.258	ug/ml#	43
87) Atrazine	10.978	200	61696	3.951	ug/ml	96
101) n-Octadecane	11.183	57	174193	4.994	ug/ml#	1
102) Parathion	11.995	109	33558	3.976	ug/ml	97
103) 3,3'-Dimethylbenzidine	13.295	212	213312	3.617	ug/ml	99

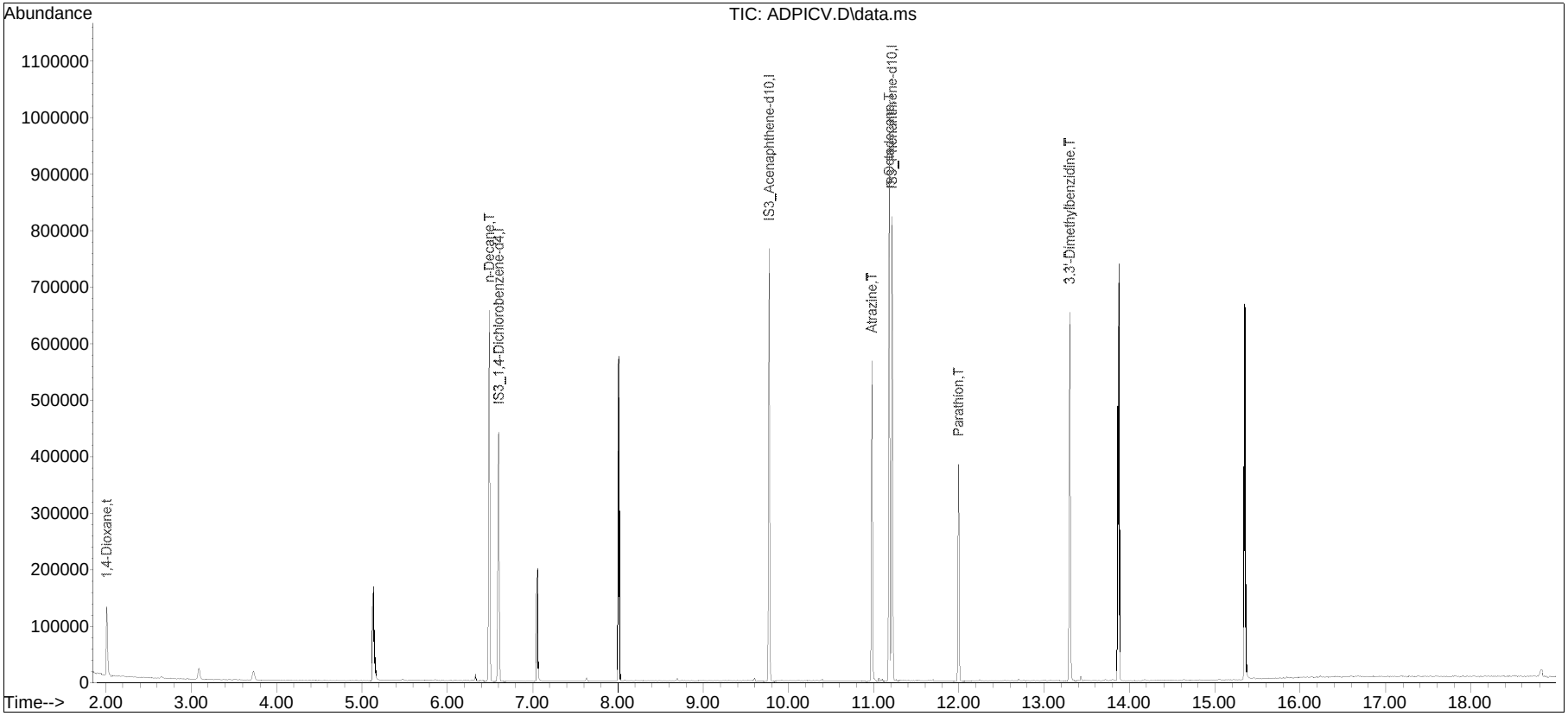
(#) = qualifier out of range (m) = manual integration (+) = signals summed

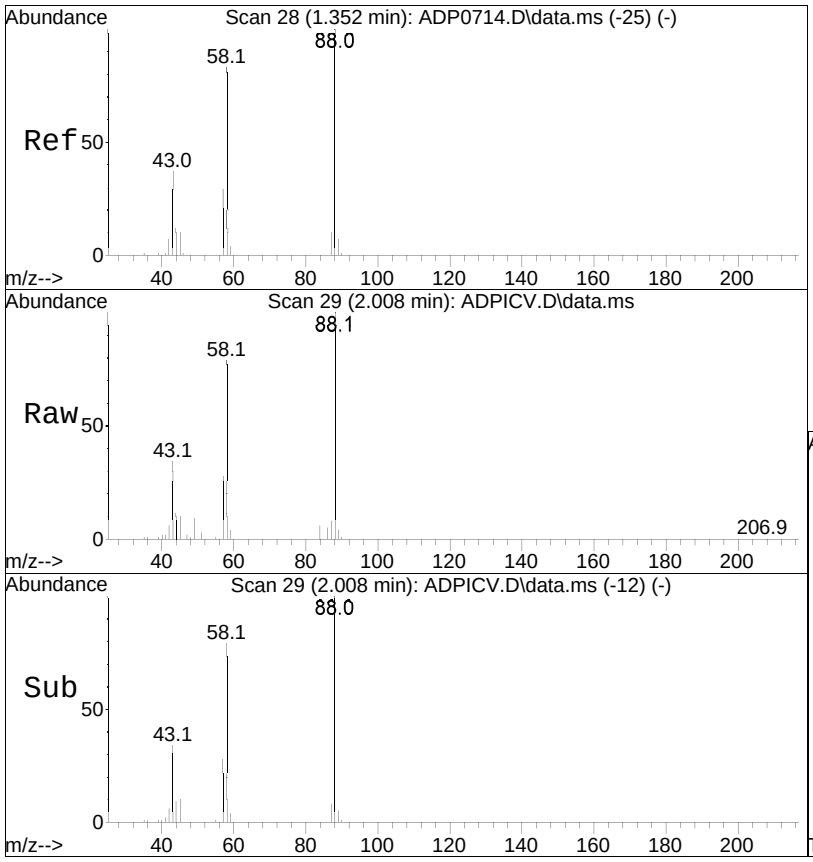
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPICV.D
Acq On : 11 Oct 2024 4:16 pm
Operator : SV106:HNY
Sample : CQICV3,32,,ADPICV Lot# 11033
Misc : WG1984388
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 11 18:37:07 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•

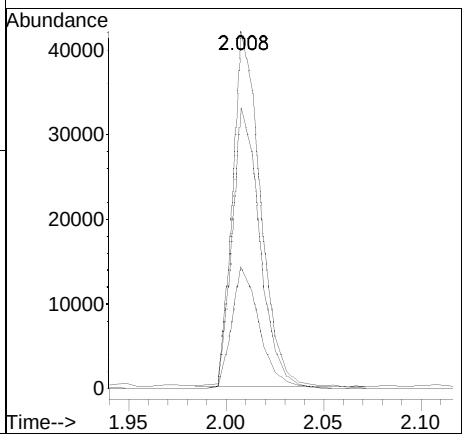


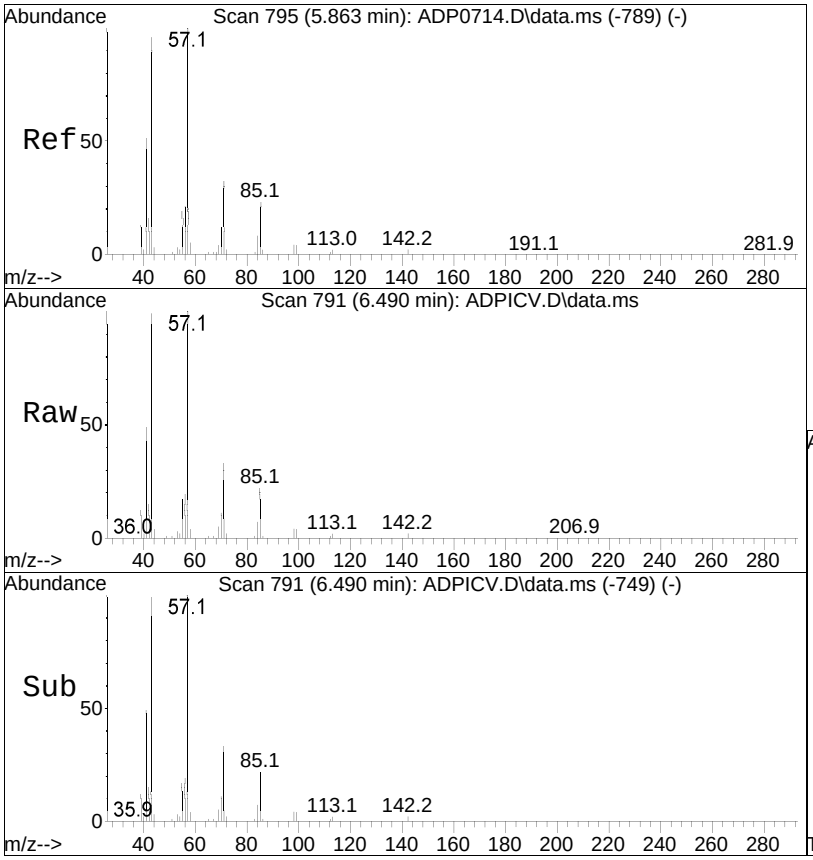


#33
1,4-Dioxane
Concen: 4.89 ug/ml
RT: 2.008 min Scan# 29
Delta R.T. -0.002 min
Lab File: ADPICV.D
Acq: 11 Oct 2024 4:16 pm

Tgt Ion: 88 Resp: 41435

Ion	Ratio	Lower	Upper
88	100		
58	78.7	44.8	67.2#
43	34.3	22.4	33.6#

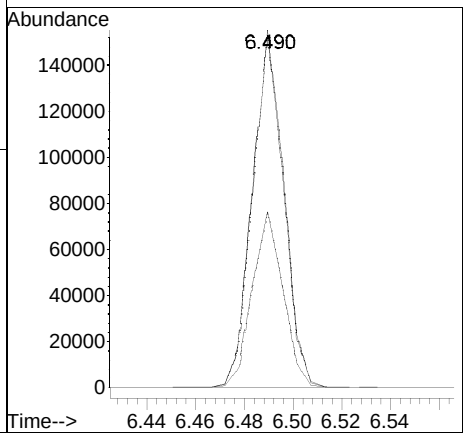


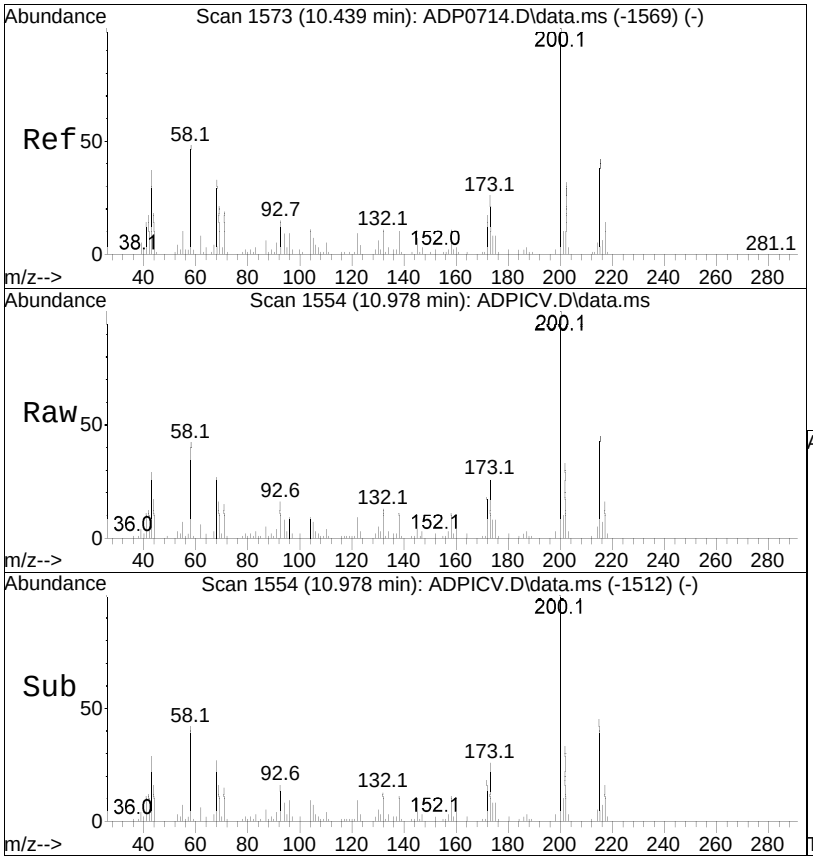


#34
n-Decane
Concen: 5.26 ug/ml
RT: 6.490 min Scan# 791
Delta R.T. -0.002 min
Lab File: ADPICV.D
Acq: 11 Oct 2024 4:16 pm

Tgt Ion: 57 Resp: 136314

Ion	Ratio	Lower	Upper
57	100		
43	98.8	0.2	0.2#
41	48.9	0.2	0.2#

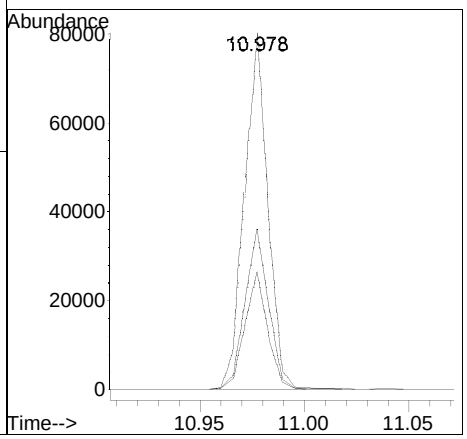


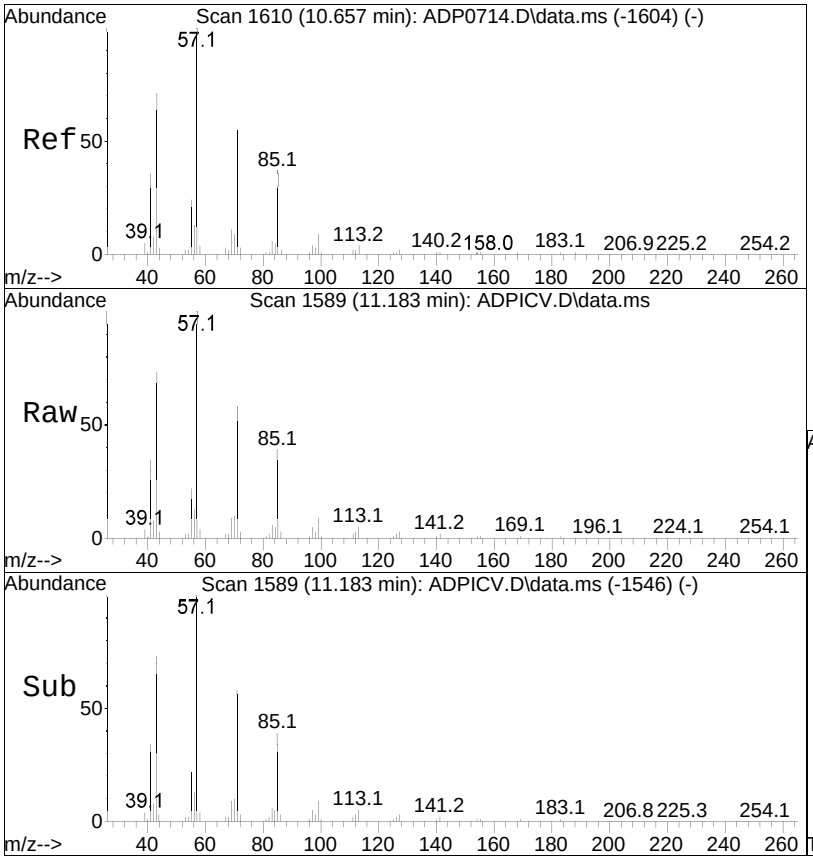


#87
Atrazine
Concen: 3.95 ug/ml
RT: 10.978 min Scan# 1554
Delta R.T. -0.002 min
Lab File: ADPICV.D
Acq: 11 Oct 2024 4:16 pm

Tgt Ion:200 Resp: 61696

Ion	Ratio	Lower	Upper
200	100		
202	32.3	25.8	38.6
215	45.6	40.2	60.4

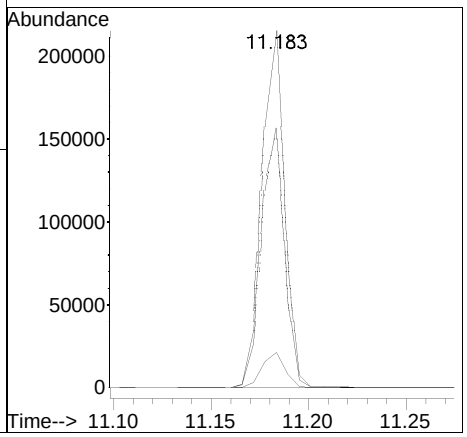


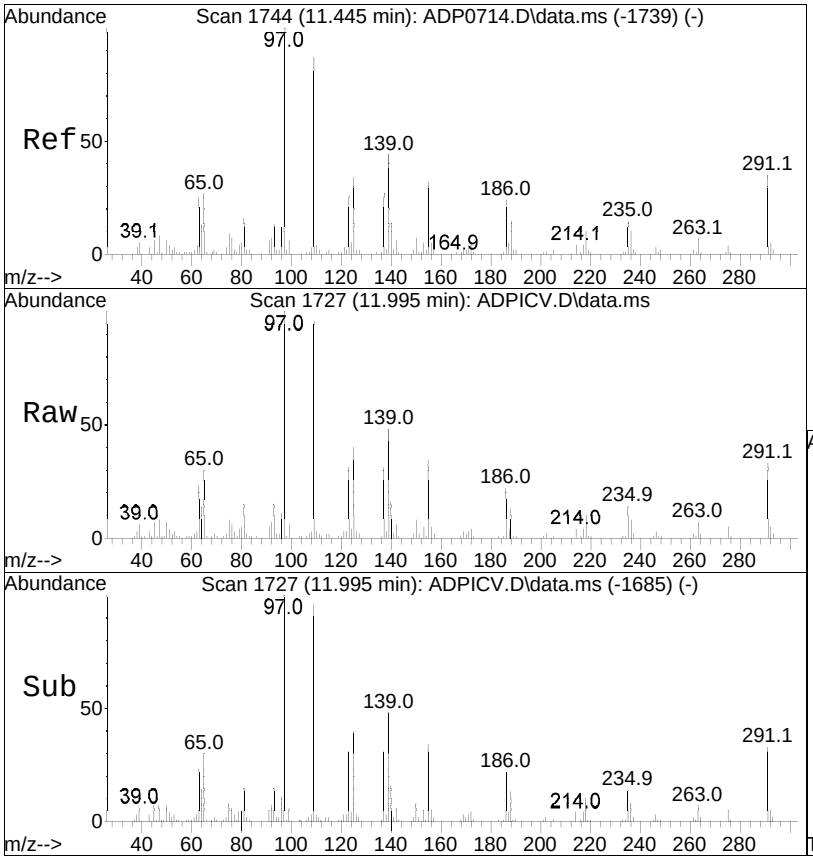


#101
n-Octadecane
Concen: 4.99 ug/ml
RT: 11.183 min Scan# 1589
Delta R.T. 0.003 min
Lab File: ADPICV.D
Acq: 11 Oct 2024 4:16 pm

Tgt Ion: 57 Resp: 174193

Ion	Ratio	Lower	Upper
57	100		
43	73.9	9.0	13.6#
70	9.9	0.2	0.2#

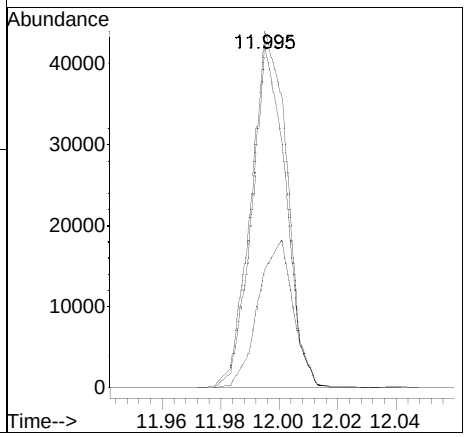


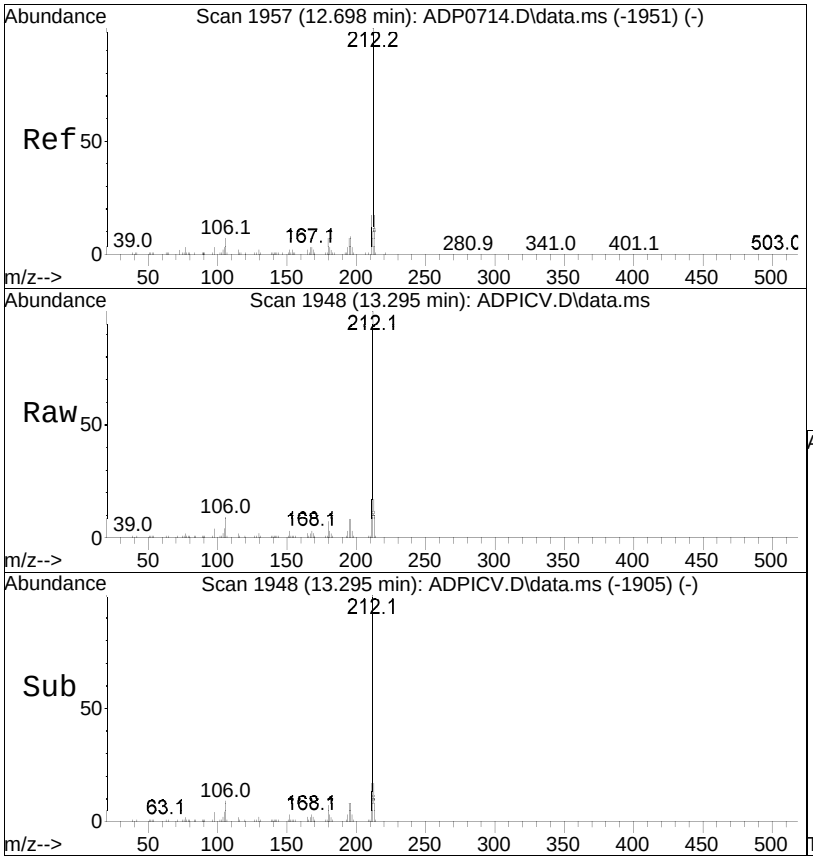


#102
Parathion
Concen: 3.98 ug/ml
RT: 11.995 min Scan# 1727
Delta R.T. -0.003 min
Lab File: ADPICV.D
Acq: 11 Oct 2024 4:16 pm

Tgt Ion:109 Resp: 33558

Ion	Ratio	Lower	Upper
109	100		
97	111.6	87.4	131.2
291	45.0	34.2	51.2

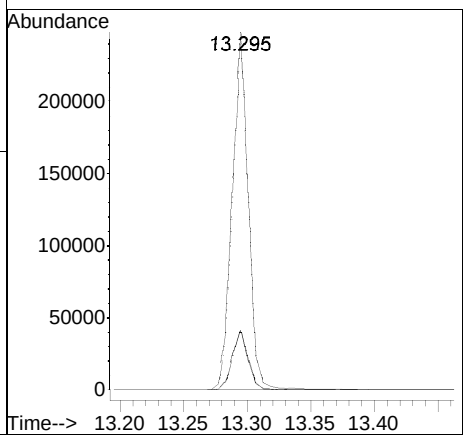




#103
3,3'-Dimethylbenzidine
Concen: 3.62 ug/ml
RT: 13.295 min Scan# 1948
Delta R.T. 0.003 min
Lab File: ADPICV.D
Acq: 11 Oct 2024 4:16 pm

Tgt Ion:212 Resp: 213312

Ion	Ratio	Lower	Upper
212	100		
211	16.7	12.9	19.3
213	16.5	13.2	19.8



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: ADPICV.D	Operator	: SV106:HNY
Date Inj'd	: 10/11/2024 4:16 pm	Instrument	: SV 106
Sample	: CQICV3,32,,ADPICV Lot# 110	Quant Date	: 10/11/2024 6:38 pm

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

Evaluate Relative Error Report SV 106

Method Path : I:\8270\SV106\241009RVTical\
Method File : FS241009SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Oct 16 05:38:35 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
37	T Benzoic Acid	L	ug/ml	5.0	4.924	-1.5	2.50	2.638	5.5
66	T 2,4-Dinitrophenol	L	ug/ml	5.0	5.071	1.4	2.50	2.574	3.0
76	T 4,6-Dinitro-o-cresol	L	ug/ml	5.0	4.663	-6.7	0.50	0.618	23.6
102	T Parathion	Q	ug/ml	5.0	4.395	-12.1	0.20	0.255	27.5

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
37	T Benzoic Acid	Linear	0.999398	0.000000	0.293627	-0.0949847
66	T 2,4-Dinitrophenol	Linear	0.999957	0.000000	0.255049	-0.0761305
76	T 4,6-Dinitro-o-cresol	Linear	0.998192	0.000000	0.304418	-0.0260477
102	T Parathion	Quadratic	0.997945	0.003299	0.117574	-0.00336064

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 12/18/24 22:19		
Lab File ID	: ABN1218	**Init. Calib. Date(s)**	: 10/09/24	10/11/24	
Sample No	: WG2011026-3	**Init. Calib. Times**	: 20:07	15:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	72	0
n-Nitrosodimethylamine	0.76	0.676	-	11.1	20	64	0
Pyridine	1.219	1.149	-	5.7	20	68	0
2-Fluorophenol	1.245	1.117	-	10.3	20	65	0
Aniline	1.771	1.59	-	10.2	20	63	0
2-Chlorophenol	1.365	1.299	-	4.8	20	67	0
Phenol-d6	1.498	1.314	-	12.3	20	64	0
Phenol	1.555	1.353	-	13	20	62	0
Bis(2-chloroethyl)ether	1.28	1.07	-	16.4	20	59	0
1,3-Dichlorobenzene	1.669	1.511	-	9.5	20	66	0
1,4-Dichlorobenzene	1.7	1.515	-	10.9	20	66	0
1,2-Dichlorobenzene	1.63	1.466	-	10.1	20	65	0
Benzyl alcohol	1.06	0.9	-	15.1	20	61	0
Bis(2-chloroisopropyl)ethe	2.014	1.412	-	29.9*	20	51	0
2-Methylphenol	1.123	1.11	-	1.2	20	70	0
Hexachloroethane	0.614	0.589	-	4.1	20	70	0
n-Nitrosodi-n-propylamine	0.94	0.824	-	12.3	20	61	0
3-Methylphenol/4-Methylphe	1.225	1.159	-	5.4	20	66	0
Nitrobenzene-d5	1.359	1.242	-	8.6	20	65	0
Nitrobenzene	1.389	1.233	-	11.2	20	64	0
Isophorone	2.416	2.048	-	15.2	20	59	0
2-Nitrophenol	0.713	0.691	-	3.1	20	66	0
2,4-Dimethylphenol	1.119	0.945	-	15.5	20	60	0
Bis(2-chloroethoxy)methane	1.614	1.356	-	16	20	59	0
2,4-Dichlorophenol	1.25	1.194	-	4.5	20	66	0
1,2,4-Trichlorobenzene	1.449	1.309	-	9.7	20	66	0
IS1_Naphthalene-d8	1	1	-	0	20	69	0
Naphthalene	1.129	1.011	-	10.5	20	64	0
Benzoic Acid	5	4.589	-	8.2	20	63	0
4-Chloroaniline	0.127	0.108	-	15	20	58	0
Hexachlorobutadiene	0.239	0.237	-	0.8	20	68	0
p-Chloro-m-cresol	0.296	0.284	-	4.1	20	64	0
2-Methylnaphthalene	0.752	0.7	-	6.9	20	65	0
1-Methylnaphthalene	0.243	0.236	-	2.9	20	69	0
Hexachlorocyclopentadiene	0.262	0.263	-	-0.4	20	70	0
2,4,6-Trichlorophenol	0.275	0.263	-	4.4	20	64	0
2,4,5-Trichlorophenol	0.285	0.276	-	3.2	20	66	0
2-Fluorobiphenyl	0.926	0.825	-	10.9	20	62	0
2-Chloronaphthalene	0.785	0.797	-	-1.5	20	72	0
2-Nitroaniline	0.223	0.238	-	-6.7	20	70	0
1,4-Dinitrobenzene	0.114	0.122	-	-7	20	69	0
1,3-Dinitrobenzene	0.125	0.135	-	-8	20	69	0
Dimethyl phthalate	0.915	0.945	-	-3.3	20	69	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 12/18/24 22:19		
Lab File ID	: ABN1218	**Init. Calib. Date(s)**	: 10/09/24	10/11/24	
Sample No	: WG2011026-3	**Init. Calib. Times**	: 20:07	15:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.17	1.214	-	-3.8	20	71	0
2,6-Dinitrotoluene	0.186	0.202	-	-8.6	20	68	0
1,2-Dinitrobenzene	0.081	0.084	-	-3.7	20	68	0
IS1_Acenaphthene-d10	1	1	-	0	20	74	0
3-Nitroaniline	0.323	0.319	-	1.2	20	70	0
Acenaphthene	1.157	1.065	-	8	20	71	0
2,4-Dinitrophenol	5	5.113	-	-2.3	20	74	0
Dibenzofuran	1.872	1.681	-	10.2	20	70	0
2,4-Dinitrotoluene	0.419	0.413	-	1.4	20	70	0
4-Nitrophenol	0.239	0.216	-	9.6	20	62	0
2,3,5,6-Tetrachlorophenol	0.39	0.397	-	-1.8	20	72	0
2,3,4,6-Tetrachlorophenol	0.385	0.388	-	-0.8	20	71	0
Diethyl phthalate	1.518	1.341	-	11.7	20	67	0
Fluorene	1.462	1.357	-	7.2	20	70	0
4-Chlorophenyl phenyl ethe	0.75	0.677	-	9.7	20	69	0
4-Nitroaniline	0.329	0.307	-	6.7	20	68	0
4,6-Dinitro-o-cresol	5	4.505	-	9.9	20	71	0
NDPA/DPA	1.261	1.183	-	6.2	20	69	0
Azobenzene	1.232	1.042	-	15.4	20	62	0
2,4,6-Tribromophenol	0.226	0.224	-	0.9	20	72	0
4-Bromophenyl phenyl ether	0.465	0.427	-	8.2	20	69	0
Hexachlorobenzene	0.526	0.493	-	6.3	20	73	0
Pentachlorophenol	0.319	0.315	-	1.3	20	71	0
IS1_Phenanthrene-d10	1	1	-	0	20	70	0
Phenanthrene	1.174	1.105	-	5.9	20	69	0
Anthracene	1.17	1.104	-	5.6	20	70	0
Carbazole	1.054	1.022	-	3	20	69	0
Di-n-butylphthalate	1.319	1.267	-	3.9	20	66	0
Fluoranthene	1.353	1.334	-	1.4	20	70	0
Benzidine	0.776	0.784	-	-1	20	66	0
Pyrene	1.428	1.393	-	2.5	20	70	0
4-Terphenyl-d14	1.073	1.088	-	-1.4	20	72	0
Butyl benzyl phthalate	0.555	0.579	-	-4.3	20	68	0
IS1_Chrysene-d12	1	1	-	0	20	75	0
Benzo(a)anthracene	1.379	1.274	-	7.6	20	72	0
3,3'-Dichlorobenzidine	0.453	0.456	-	-0.7	20	73	0
Chrysene	1.324	1.203	-	9.1	20	71	0
Bis(2-ethylhexyl)phthalate	0.828	0.785	-	5.2	20	66	0
Di-n-octylphthalate	1.373	1.372	-	0.1	20	68	0
Benzo(b)fluoranthene	1.331	1.391	-	-4.5	20	81	0
Benzo(k)fluoranthene	1.24	1.214	-	2.1	20	72	0
Benzo(a)pyrene	1.155	1.207	-	-4.5	20	78	0
IS1_Perylene-d12	1	1	-	0	20	80	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 12/18/24 22:19		
Lab File ID	: ABN1218	**Init. Calib. Date(s)**	: 10/09/24	10/11/24	
Sample No	: WG2011026-3	**Init. Calib. Times**	: 20:07	15:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.213	1.264	-	-4.2	20	84	0
Dibenzo(a,h)anthracene	1.153	1.199	-	-4	20	83	0
Benzo(ghi)perylene	1.08	1.141	-	-5.6	20	84	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 12/18/24 22:43		
Lab File ID	: AP91218	**Init. Calib. Date(s)**	: 10/09/24	10/11/24	
Sample No	: WG2011026-4	**Init. Calib. Times**	: 20:07	15:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	84	0
Benzaldehyde	0.948	0.908	-	4.2	20	78	0
Acetophenone	1.829	1.553	-	15.1	20	72	0
m-Toluidine	1.612	1.484	-	7.9	20	77	0
2-Chloroaniline	1.609	1.49	-	7.4	20	76	0
IS2_Naphthalene-d8	1	1	-	0	20	79	0
a-Terpineol	0.282	0.213	-	24.5*	20	60	0
3-Chloroaniline	0.132	0.117	-	11.4	20	66	0
2,6-Dichlorophenol	0.3	0.291	-	3	20	74	0
1-chloro-2-nitrobenzene	0.145	0.13	-	10.3	20	71	0
Caprolactam	0.147	0.111	-	24.5*	20	59	0
1,2,4,5-Tetrachlorobenzene	0.402	0.366	-	9	20	73	0
Biphenyl	0.907	0.829	-	8.6	20	71	0
IS2_Acenaphthene-d10	1	1	-	0	20	79	0
Dichloran	0.181	0.186	-	-2.8	20	82	0
Pentachloronitrobenzene	0.193	0.2	-	-3.6	20	79	0
IS2_Phenanthrene-d10	1	1	-	0	20	74	0
Diphenamid	0.505	0.511	-	-1.2	20	72	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 12/18/24 23:07		
Lab File ID	: ADP1218	**Init. Calib. Date(s)**	: 10/09/24	10/11/24	
Sample No	: WG2011026-5	**Init. Calib. Times**	: 20:07	15:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	60	0
1,4-Dioxane	0.485	0.426	-	12.2	20	64	0
n-Decane	1.486	1.087	-	26.9*	20	51	0
IS3_Acenaphthene-d10	1	1	-	0	20	64	0
Atrazine	0.415	0.367	-	11.6	20	60	0
IS3_Phenanthrene-d10	1	1	-	0	20	67	0
n-Octadecane	0.485	0.318	-	34.4*	20	44	0
Parathion	5	4.497	-	10.1	20	69	0
3,3'-Dimethylbenzidine	0.821	0.74	-	9.9	20	66	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\241218RVT\
Data File : ABN1218.D
Acq On : 18 Dec 2024 10:19 pm
Operator : SV106:im
Sample : WG2011026-3,32,,ABN RVT CCV Lot # 11043
Misc : WG2011026,,ical21604
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 18 23:00:16 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:01:54 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	72	0.00
2	t	n-Nitrosodimethylamine		0.760	0.676	11.1	64	0.00
3	t	Pyridine		1.219	1.149	5.7	68	0.00
4	S	2-Fluorophenol		1.245	1.117	10.3	65	0.00
5	T	Aniline		1.771	1.590	10.2	63	0.00
6	t	2-Chlorophenol		1.365	1.299	4.8	67	0.00
7	S	Phenol-d6		1.498	1.314	12.3	64	0.00
8	T	Phenol		1.555	1.353	13.0	62	0.00
9	T	Bis(2-chloroethyl)ether		1.280	1.070	16.4	59	0.00
10	T	1,3-Dichlorobenzene		1.669	1.511	9.5	66	0.00
11	T	1,4-Dichlorobenzene		1.700	1.515	10.9	66	0.00
12	T	1,2-Dichlorobenzene		1.630	1.466	10.1	65	0.00
13	t	Benzyl alcohol		1.060	0.900	15.1	61	0.00
14	T	Bis(2-chloroisopropyl)ether		2.014	1.412	29.9#	51	0.00
15	T	2-Methylphenol		1.123	1.110	1.2	70	0.00
16	T	Hexachloroethane		0.614	0.589	4.1	70	0.00
17	T	n-Nitrosodi-n-propylamine		0.940	0.824	12.3	61	0.00
18	T	3-Methylphenol/4-Methylphen		1.225	1.159	5.4	66	0.00
19	S	Nitrobenzene-d5		1.359	1.242	8.6	65	0.00
20	T	Nitrobenzene		1.389	1.233	11.2	64	0.00
21	T	Isophorone		2.416	2.048	15.2	59	0.00
22	T	2-Nitrophenol		0.713	0.691	3.1	66	0.00
23	T	2,4-Dimethylphenol		1.119	0.945	15.5	60	0.00
24	T	Bis(2-chloroethoxy)methane		1.614	1.356	16.0	59	0.00
25	T	2,4-Dichlorophenol		1.250	1.194	4.5	66	0.00
26	T	1,2,4-Trichlorobenzene		1.449	1.309	9.7	66	0.00
35	I	IS1_Naphthalene-d8		1.000	1.000	0.0	69	0.00
36	T	Naphthalene		1.129	1.011	10.5	64	0.00
37	T	Benzoic Acid	*	5.000	4.589	8.2	63	0.00
38	T	4-Chloroaniline		0.127	0.108	15.0	58	0.00
39	T	Hexachlorobutadiene		0.239	0.237	0.8	68	0.00
40	T	p-Chloro-m-cresol		0.296	0.284	4.1	64	0.00
41	T	2-Methylnaphthalene		0.752	0.700	6.9	65	0.00
42	T	1-Methylnaphthalene		0.243	0.236	2.9	69	0.00
43	T	Hexachlorocyclopentadiene		0.262	0.263	-0.4	70	0.00
44	T	2,4,6-Trichlorophenol		0.275	0.263	4.4	64	0.00
45	T	2,4,5-Trichlorophenol		0.285	0.276	3.2	66	0.00
46	S	2-Fluorobiphenyl		0.926	0.825	10.9	62	0.00

Data Path : I:\8270\SV106\241218RVT\
Data File : ABN1218.D
Acq On : 18 Dec 2024 10:19 pm
Operator : SV106:im
Sample : WG2011026-3,32,,ABN RVT CCV Lot # 11043
Misc : WG2011026,,ical21604
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 18 23:00:16 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:01:54 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		0.785	0.797	-1.5	72	0.00
48	T	2-Nitroaniline		0.223	0.238	-6.7	70	0.00
49	T	1,4-Dinitrobenzene		0.114	0.122	-7.0	69	0.00
50	T	1,3-Dinitrobenzene		0.125	0.135	-8.0	69	0.00
51	T	Dimethyl phthalate		0.915	0.945	-3.3	69	0.00
52	T	Acenaphthylene		1.170	1.214	-3.8	71	0.00
53	T	2,6-Dinitrotoluene		0.186	0.202	-8.6	68	0.00
54	T	1,2-Dinitrobenzene		0.081	0.084	-3.7	68	0.00
63	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	74	0.00
64	T	3-Nitroaniline		0.323	0.319	1.2	70	0.00
65	T	Acenaphthene		1.157	1.065	8.0	71	0.00
66	T	2,4-Dinitrophenol	*	5.000	5.113	-2.3	74	0.00
67	T	Dibenzofuran		1.872	1.681	10.2	70	0.00
68	T	2,4-Dinitrotoluene		0.419	0.413	1.4	70	0.00
69	T	4-Nitrophenol		0.239	0.216	9.6	62	0.00
70	T	2,3,5,6-Tetrachlorophenol		0.390	0.397	-1.8	72	0.00
71	T	2,3,4,6-Tetrachlorophenol		0.385	0.388	-0.8	71	0.00
72	T	Diethyl phthalate		1.518	1.341	11.7	67	0.00
73	T	Fluorene		1.462	1.357	7.2	70	0.00
74	T	4-Chlorophenyl phenyl ether		0.750	0.677	9.7	69	0.00
75	T	4-Nitroaniline		0.329	0.307	6.7	68	0.00
76	T	4,6-Dinitro-o-cresol	*	5.000	4.505	9.9	71	0.00
77	T	NDPA/DPA		1.261	1.183	6.2	69	0.00
78	T	Azobenzene		1.232	1.042	15.4	62	0.00
79	S	2,4,6-Tribromophenol		0.226	0.224	0.9	72	0.00
80	T	4-Bromophenyl phenyl ether		0.465	0.427	8.2	69	0.00
81	T	Hexachlorobenzene		0.526	0.493	6.3	73	0.00
82	T	Pentachlorophenol		0.319	0.315	1.3	71	0.00
88	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	70	0.00
89	T	Phenanthrene		1.174	1.105	5.9	69	0.00
90	T	Anthracene		1.170	1.104	5.6	70	0.00
91	T	Carbazole		1.054	1.022	3.0	69	0.00
92	T	Di-n-butylphthalate		1.319	1.267	3.9	66	0.00
93	T	Fluoranthene		1.353	1.334	1.4	70	0.00
94	T	Benzidine		0.776	0.784	-1.0	66	0.00
95	T	Pyrene		1.428	1.393	2.5	70	0.00
96	S	4-Terphenyl-d14		1.073	1.088	-1.4	72	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\241218RVT\
Data File : ABN1218.D
Acq On : 18 Dec 2024 10:19 pm
Operator : SV106:im
Sample : WG2011026-3,32,,ABN RVT CCV Lot # 11043
Misc : WG2011026,,ical21604
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 18 23:00:16 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:01:54 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	0.555	0.579	-4.3	68	0.00
104	I	IS1_Chrysene-d12	1.000	1.000	0.0	75	0.00
105	T	Benzo(a)anthracene	1.379	1.274	7.6	72	0.00
106	T	3,3'-Dichlorobenzidine	0.453	0.456	-0.7	73	0.00
107	T	Chrysene	1.324	1.203	9.1	71	0.00
108	T	Bis(2-ethylhexyl)phthalate	0.828	0.785	5.2	66	0.00
109	T	Di-n-octylphthalate	1.373	1.372	0.1	68	0.00
110	T	Benzo(b)fluoranthene	1.331	1.391	-4.5	81	0.00
111	T	Benzo(k)fluoranthene	1.240	1.214	2.1	72	0.00
112	T	Benzo(a)pyrene	1.155	1.207	-4.5	78	0.00
113	I	IS1_Perylene-d12	1.000	1.000	0.0	80	0.00
114	T	Indeno(1,2,3-cd)pyrene	1.213	1.264	-4.2	84	0.00
115	T	Dibenzo(a,h)anthracene	1.153	1.199	-4.0	83	0.00
116	T	Benzo(ghi)perylene	1.080	1.141	-5.6	84	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241218RVT\
Data File : ABN1218.D
Acq On : 18 Dec 2024 10:19 pm
Operator : SV106:im
Sample : WG2011026-3,32,,ABN RVT CCV Lot # 11043
Misc : WG2011026,,ical21604
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 18 23:00:16 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:01:54 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...	6.639	152	49612	4.000	ug/ml	0.00
35)	IS1_Naphthalene-d8	8.045	136	183058	4.000	ug/ml	0.00
63)	IS1_Acenaphthene-d10	9.810	164	122903	4.000	ug/ml	0.00
88)	IS1_Phenanthrene-d10	11.251	188	229574	4.000	ug/ml	0.00
104)	IS1_Chrysene-d12	13.904	240	264435	4.000	ug/ml	0.00
113)	IS1_Perylene-d12	15.386	264	304444	4.000	ug/ml	0.00
	System Monitoring Compounds						
4)	2-Fluorophenol	4.840	112	69263	4.487	ug/ml	0.00
	Spiked Amount 2.000	Range 15 - 110		Recovery = 224.35%#			
7)	Phenol-d6	6.269	99	81460	4.385	ug/ml	0.00
	Spiked Amount 2.000	Range 15 - 110		Recovery = 219.25%#			
19)	Nitrobenzene-d5	7.286	82	77003	4.567	ug/ml	0.00
	Spiked Amount 1.000	Range 30 - 130		Recovery = 456.70%#			
46)	2-Fluorobiphenyl	9.163	172	188753	4.455	ug/ml	0.00
	Spiked Amount 1.000	Range 30 - 130		Recovery = 445.50%#			
79)	2,4,6-Tribromophenol	10.580	330	34441	4.953	ug/ml	0.00
	Spiked Amount 2.000	Range 15 - 110		Recovery = 247.65%#			
96)	4-Terphenyl-d14	12.833	244	312195	5.067	ug/ml	0.00
	Spiked Amount 1.000	Range 30 - 130		Recovery = 506.70%#			
	Target Compounds						Qvalue
2)	n-Nitrosodimethylamine	2.375	74	41925	4.447	ug/ml#	60
3)	Pyridine	2.422	79	71240	4.713	ug/ml#	57
5)	Aniline	6.245	93	98632	4.490	ug/ml	93
6)	2-Chlorophenol	6.386	128	80548	4.757	ug/ml#	84
8)	Phenol	6.286	94	83884	4.351	ug/ml	95
9)	Bis(2-chloroethyl)ether	6.363	93	66385	4.180	ug/ml	93
10)	1,3-Dichlorobenzene	6.569	146	93685	4.526	ug/ml	97
11)	1,4-Dichlorobenzene	6.663	146	93935	4.456	ug/ml	97
12)	1,2-Dichlorobenzene	6.839	146	90930	4.497	ug/ml	96
13)	Benzyl alcohol	6.839	79	55785	4.243	ug/ml	97
14)	Bis(2-chloroisopropyl)...	7.010	45	87587	3.507	ug/ml#	32
15)	2-Methylphenol	7.004	108	68808	4.939	ug/ml	97
16)	Hexachloroethane	7.222	117	36555	4.801	ug/ml#	56
17)	n-Nitrosodi-n-propylamine	7.157	70	51121	4.384	ug/ml	99
18)	3-Methylphenol/4-Methy...	7.186	108	71892	4.731	ug/ml	97
20)	Nitrobenzene	7.304	77	76465	4.439	ug/ml	92
21)	Isophorone	7.580	82	127036	4.239	ug/ml#	96
22)	2-Nitrophenol	7.657	139	42845	4.848	ug/ml#	83

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241218RVT\
Data File : ABN1218.D
Acq On : 18 Dec 2024 10:19 pm
Operator : SV106:im
Sample : WG2011026-3,32,,ABN RVT CCV Lot # 11043
Misc : WG2011026,,ical21604
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 18 23:00:16 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:01:54 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	7.751	107	58587	4.223	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.845	93	84119	4.202	ug/ml	98
25) 2,4-Dichlorophenol	7.922	162	74018	4.774	ug/ml#	92
26) 1,2,4-Trichlorobenzene	7.998	180	81204	4.519	ug/ml	97
36) Naphthalene	8.069	128	231395	4.477	ug/ml	100
37) Benzoic Acid	7.833	105	44281	4.589	ug/ml	92
38) 4-Chloroaniline	8.145	65	24699	4.261	ug/ml#	59
39) Hexachlorobutadiene	8.233	225	54132	4.954	ug/ml	98
40) p-Chloro-m-cresol	8.669	107	64934	4.790	ug/ml	94
41) 2-Methylnaphthalene	8.780	142	160141	4.650	ug/ml	97
42) 1-Methylnaphthalene	8.880	115	54015	4.848	ug/ml	95
43) Hexachlorocyclopentadiene	8.957	237	60071	5.012	ug/ml	100
44) 2,4,6-Trichlorophenol	9.075	196	60151	4.776	ug/ml	98
45) 2,4,5-Trichlorophenol	9.104	196	63151	4.843	ug/ml	98
47) 2-Chloronaphthalene	9.263	162	182283	5.077	ug/ml	96
48) 2-Nitroaniline	9.374	138	54405	5.323	ug/ml#	78
49) 1,4-Dinitrobenzene	9.504	168	27967	5.359	ug/ml#	69
50) 1,3-Dinitrobenzene	9.580	168	30926	5.406	ug/ml#	1
51) Dimethyl phthalate	9.574	163	216299	5.168	ug/ml#	99
52) Acenaphthylene	9.663	152	277726	5.188	ug/ml	99
53) 2,6-Dinitrotoluene	9.616	165	46130	5.421	ug/ml#	72
54) 1,2-Dinitrobenzene	9.663	168	19310	5.235	ug/ml#	1
64) 3-Nitroaniline	9.774	138	49042	4.941	ug/ml#	86
65) Acenaphthene	9.839	154	163623	4.602	ug/ml	91
66) 2,4-Dinitrophenol	9.874	184	30713	5.113	ug/ml#	86
67) Dibenzofuran	10.010	168	258251	4.490	ug/ml	97
68) 2,4-Dinitrotoluene	10.010	165	63506	4.931	ug/ml#	82
69) 4-Nitrophenol	9.957	65	33188	4.521	ug/ml#	70
70) 2,3,5,6-Tetrachlorophenol	10.098	232	61001	5.085	ug/ml	98
71) 2,3,4,6-Tetrachlorophenol	10.139	232	59617	5.035	ug/ml	98
72) Diethyl phthalate	10.269	149	206004	4.417	ug/ml	98
73) Fluorene	10.345	166	208495	4.642	ug/ml	97
74) 4-Chlorophenyl phenyl ...	10.357	204	103982	4.510	ug/ml	92
75) 4-Nitroaniline	10.363	138	47184	4.672	ug/ml#	74
76) 4,6-Dinitro-o-cresol	10.404	198	38936	4.505	ug/ml#	54
77) NDPA/DPA	10.474	169	181681	4.688	ug/ml	99
78) Azobenzene	10.510	77	160042	4.226	ug/ml#	87
80) 4-Bromophenyl phenyl e...	10.833	248	65547	4.589	ug/ml#	84
81) Hexachlorobenzene	10.886	284	75792	4.687	ug/ml#	80
82) Pentachlorophenol	11.074	266	48426	4.948	ug/ml	98
89) Phenanthrene	11.269	178	317167	4.709	ug/ml	100

Data Path : I:\8270\SV106\241218RVT\
Data File : ABN1218.D
Acq On : 18 Dec 2024 10:19 pm
Operator : SV106:im
Sample : WG2011026-3,32,,ABN RVT CCV Lot # 11043
Misc : WG2011026,,ical21604
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 18 23:00:16 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:01:54 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) Anthracene	11.321	178	316864	4.718	ug/ml	100
91) Carbazole	11.486	167	293213	4.848	ug/ml	99
92) Di-n-butylphthalate	11.868	149	363714	4.805	ug/ml	98
93) Fluoranthene	12.433	202	382874	4.929	ug/ml#	91
94) Benzidine	12.580	184	225115	5.055	ug/ml#	94
95) Pyrene	12.651	202	399865	4.879	ug/ml	100
97) Butyl benzyl phthalate	13.362	149	166081	5.219	ug/ml#	83
105) Benzo(a)anthracene	13.898	228	421080	4.618	ug/ml	99
106) 3,3'-Dichlorobenzidine	13.892	252	150767	5.033	ug/ml#	96
107) Chrysene	13.933	228	397583	4.544	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	14.004	149	259536	4.741	ug/ml	93
109) Di-n-octylphthalate	14.686	149	453418	4.995	ug/ml#	69
110) Benzo(b)fluoranthene	15.009	252	459757	5.226	ug/ml#	91
111) Benzo(k)fluoranthene	15.039	252	401238	4.896	ug/ml#	93
112) Benzo(a)pyrene	15.327	252	398809	5.223	ug/ml#	92
114) Indeno(1,2,3-cd)pyrene	16.398	276	480901M6	5.211	ug/mL	
115) Dibenzo(a,h)anthracene	16.421	278	456172	5.197	ug/ml#	88
116) Benzo(ghi)perylene	16.668	276	434164	5.283	ug/ml#	85

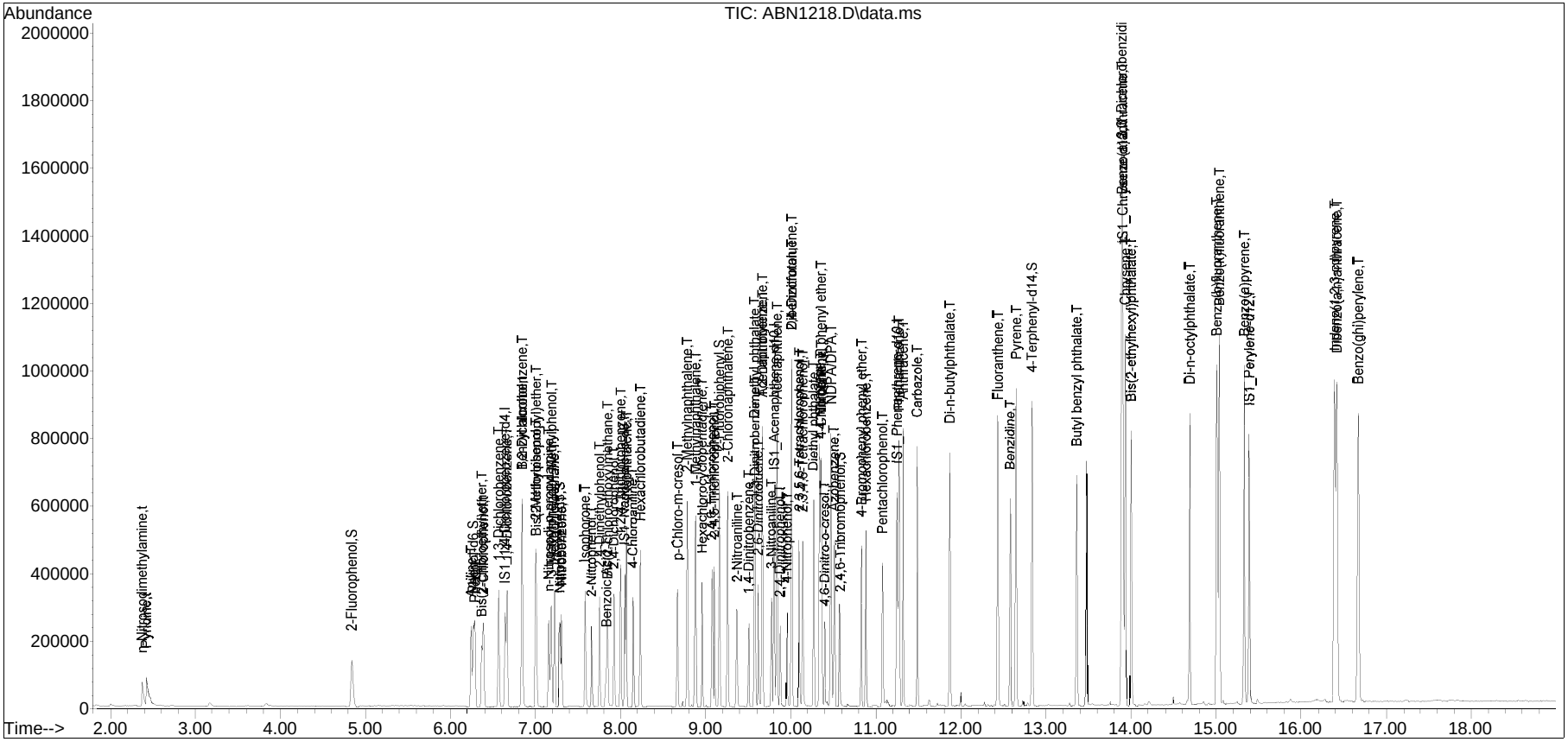
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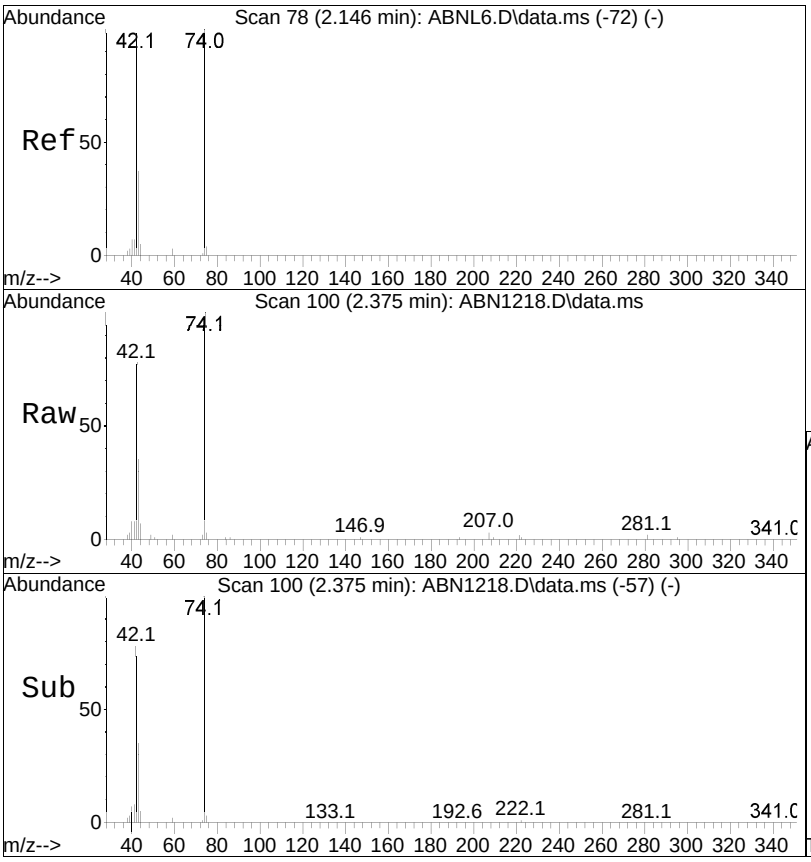
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241218RVT\
Data File : ABN1218.D
Acq On : 18 Dec 2024 10:19 pm
Operator : SV106:im
Sample : WG2011026-3,32,,ABN RVT CCV Lot # 11043
Misc : WG2011026,,ical21604
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 18 23:00:16 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:01:54 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

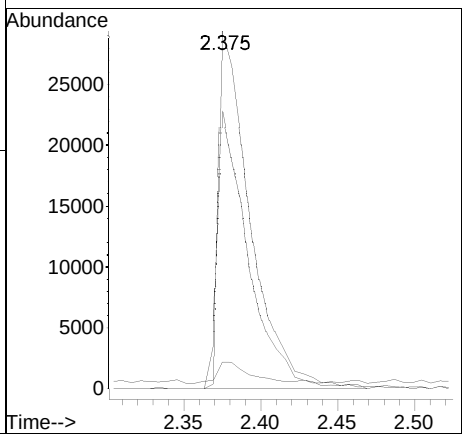


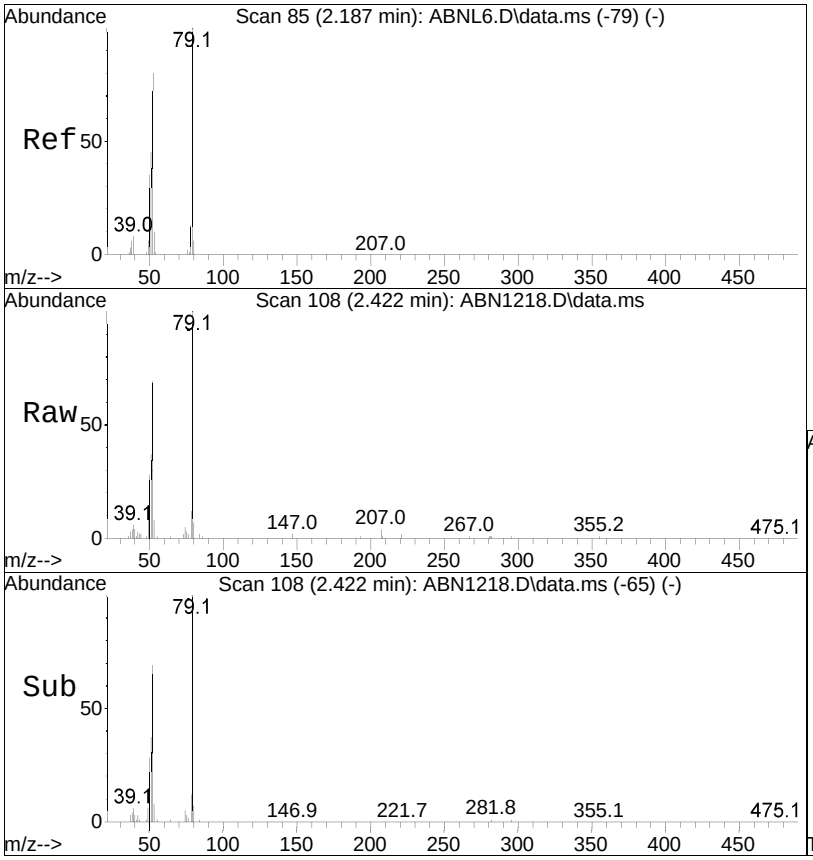


#2
n-Nitrosodimethylamine
Concen: 4.45 ug/ml
RT: 2.375 min Scan# 100
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion: 74 Resp: 41925

Ion	Ratio	Lower	Upper
74	100		
42	76.8	100.0	150.0#
44	6.1	6.7	10.1#

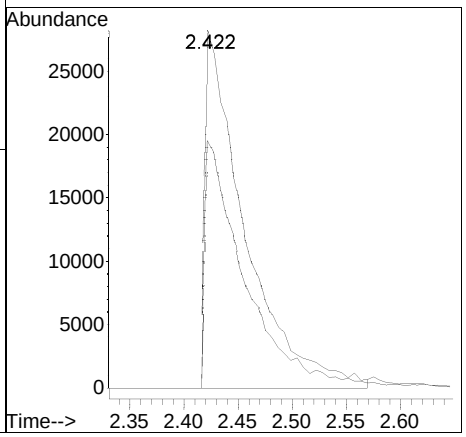


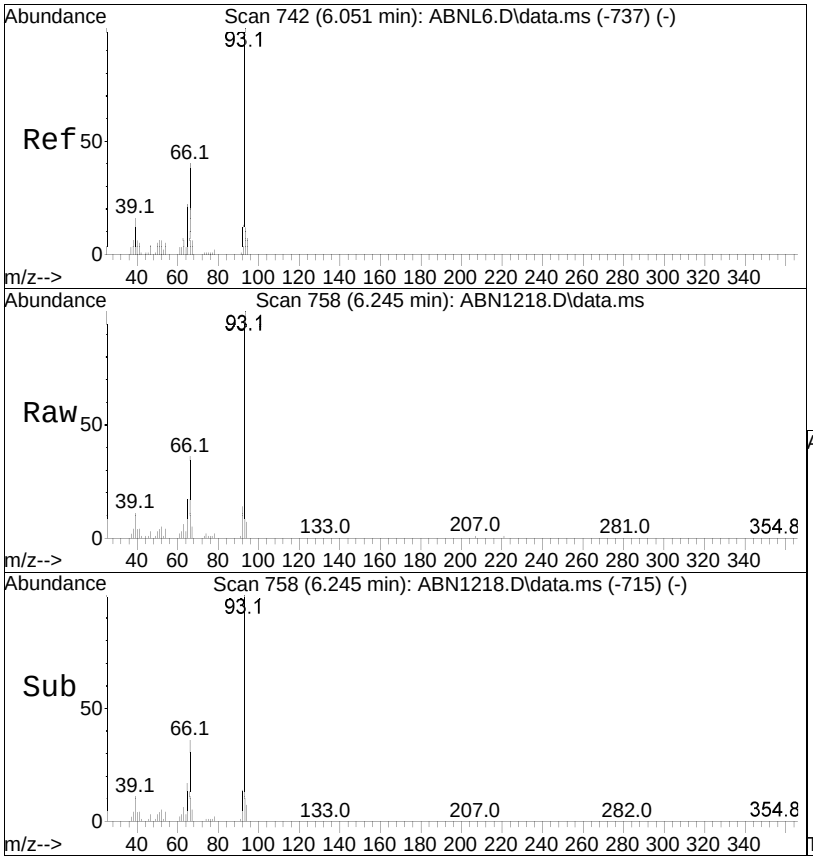


#3
Pyridine
Concen: 4.71 ug/ml
RT: 2.422 min Scan# 108
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion: 79 Resp: 71240

Ion	Ratio	Lower	Upper
79	100		
52	69.8	93.1	139.7#

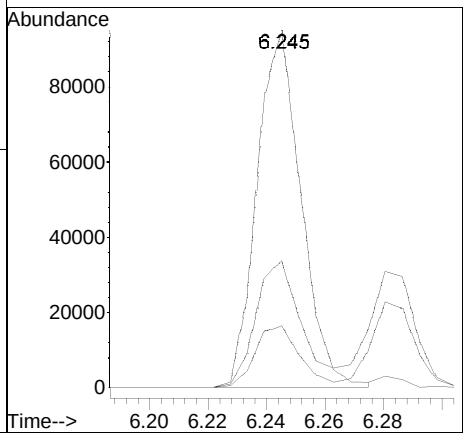


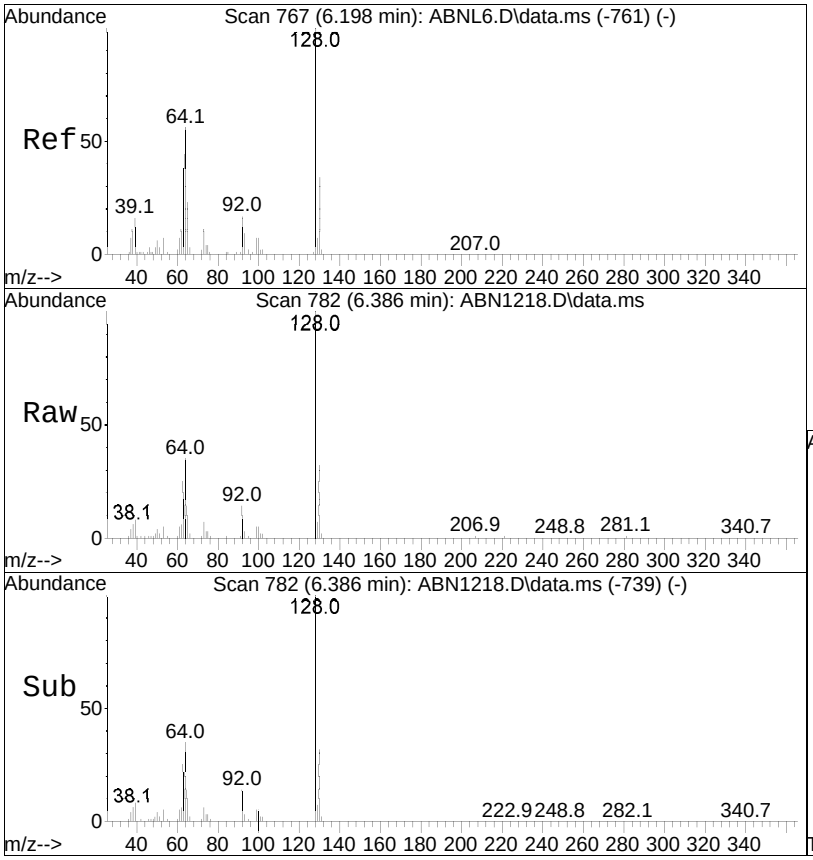


#5
Aniline
Concen: 4.49 ug/ml
RT: 6.245 min Scan# 758
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion: 93 Resp: 98632

Ion	Ratio	Lower	Upper
93	100		
66	37.3	32.6	49.0
65	17.9	17.6	26.4

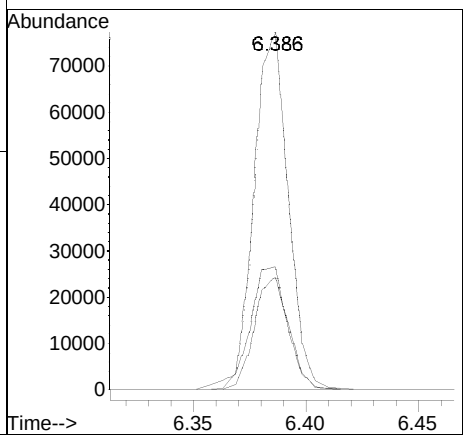


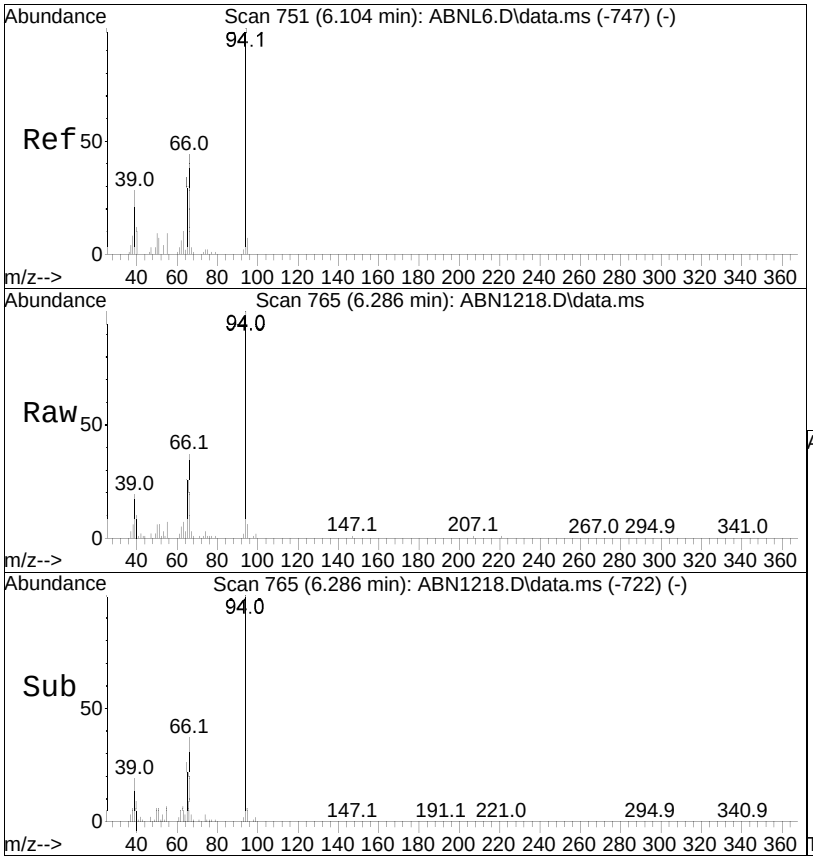


#6
2-Chlorophenol
Concen: 4.76 ug/ml
RT: 6.386 min Scan# 782
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:128 Resp: 80548

Ion	Ratio	Lower	Upper
128	100		
64	38.3	45.1	67.7#
130	32.1	26.2	39.4

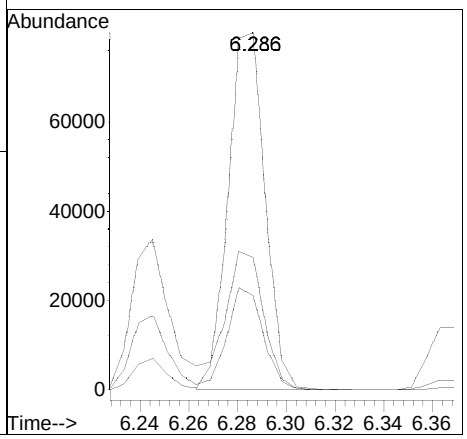


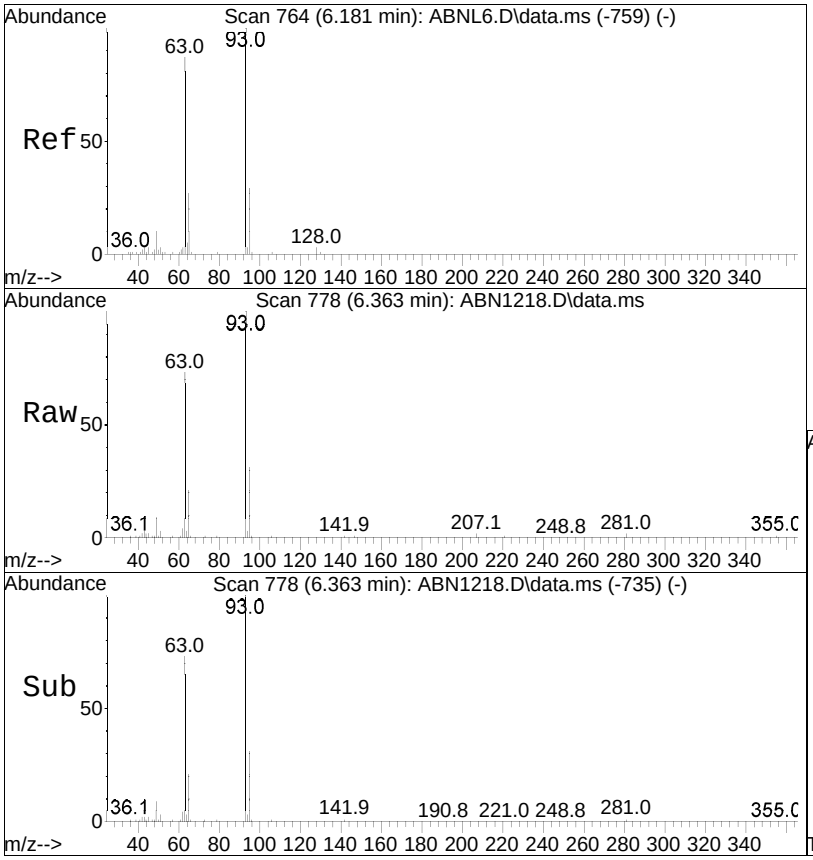


#8
Phenol
Concen: 4.35 ug/ml
RT: 6.286 min Scan# 765
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion: 94 Resp: 83884

Ion	Ratio	Lower	Upper
94	100		
65	28.3	26.0	39.0
66	40.8	33.8	50.8

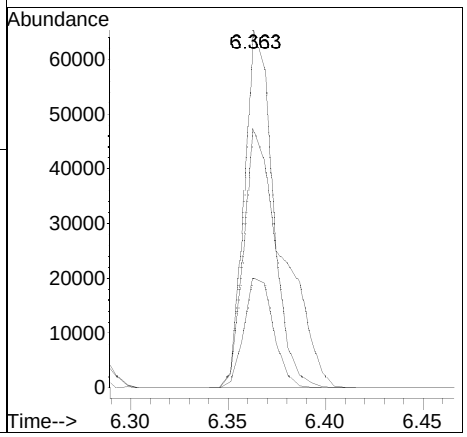


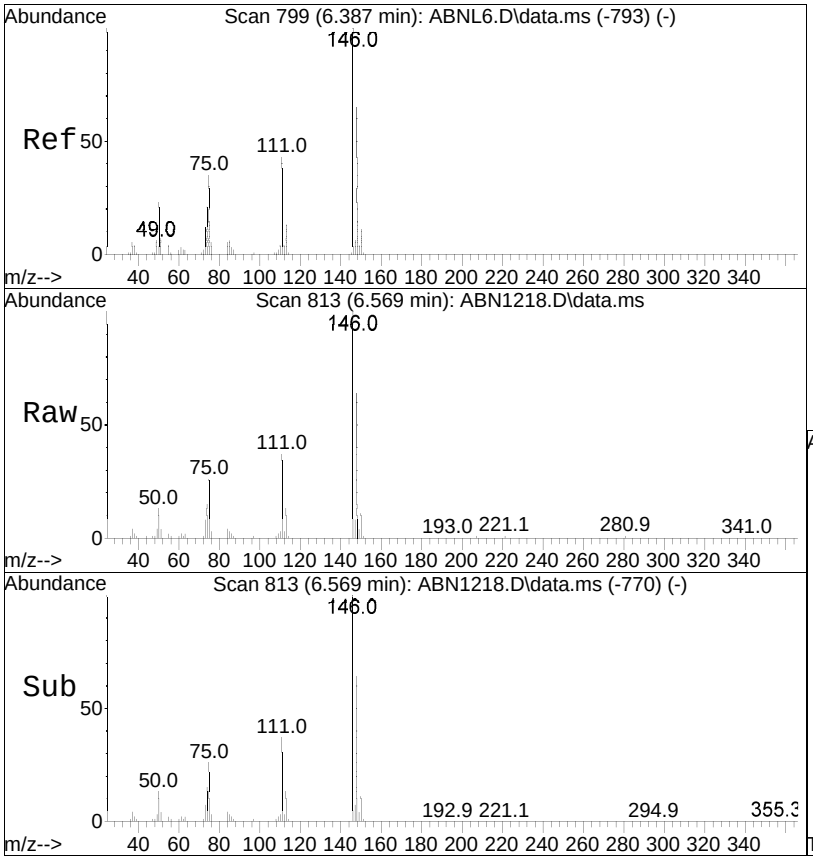


#9
Bis(2-chloroethyl)ether
Concen: 4.18 ug/ml
RT: 6.363 min Scan# 778
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion: 93 Resp: 66385

Ion	Ratio	Lower	Upper
93	100		
63	101.4	74.6	111.8
95	31.9	25.9	38.9

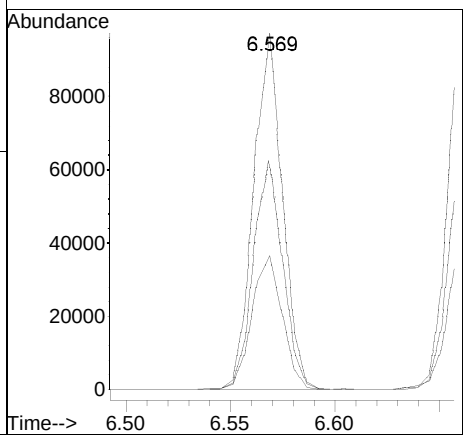


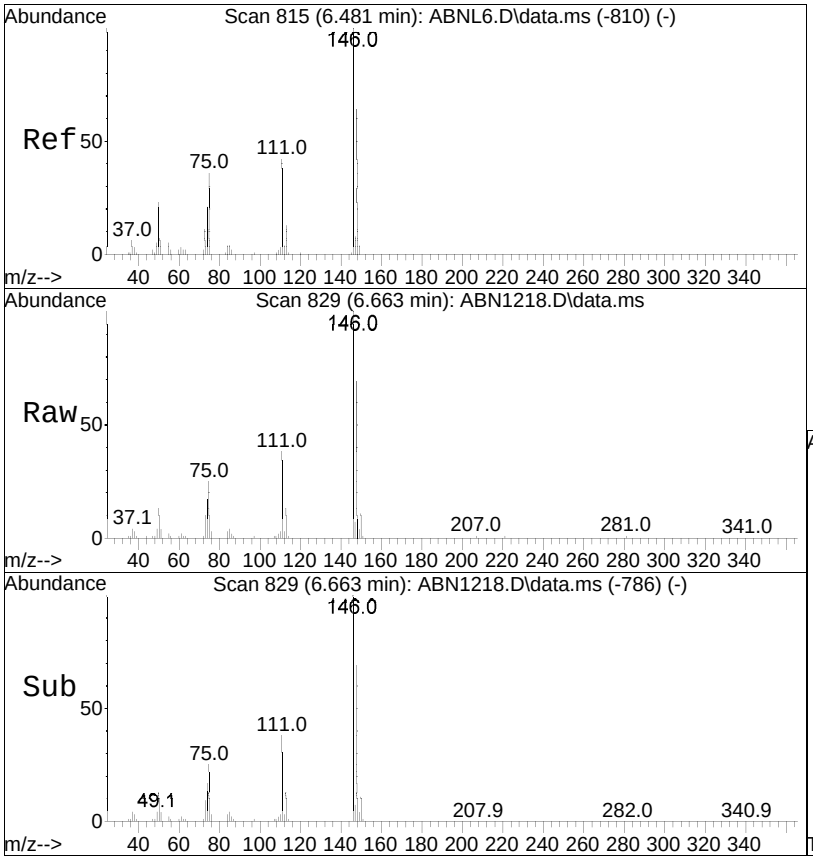


#10
1,3-Dichlorobenzene
Concen: 4.53 ug/ml
RT: 6.569 min Scan# 813
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:146 Resp: 93685

Ion	Ratio	Lower	Upper
146	100		
111	39.4	34.3	51.5
148	65.2	50.8	76.2

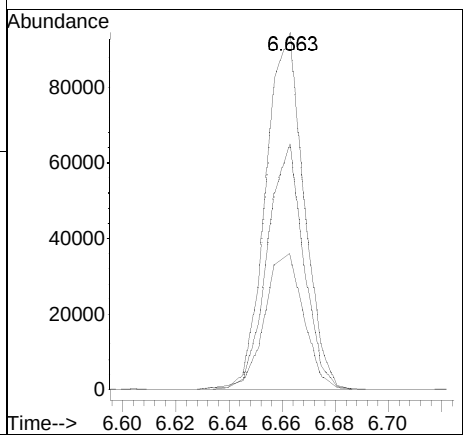


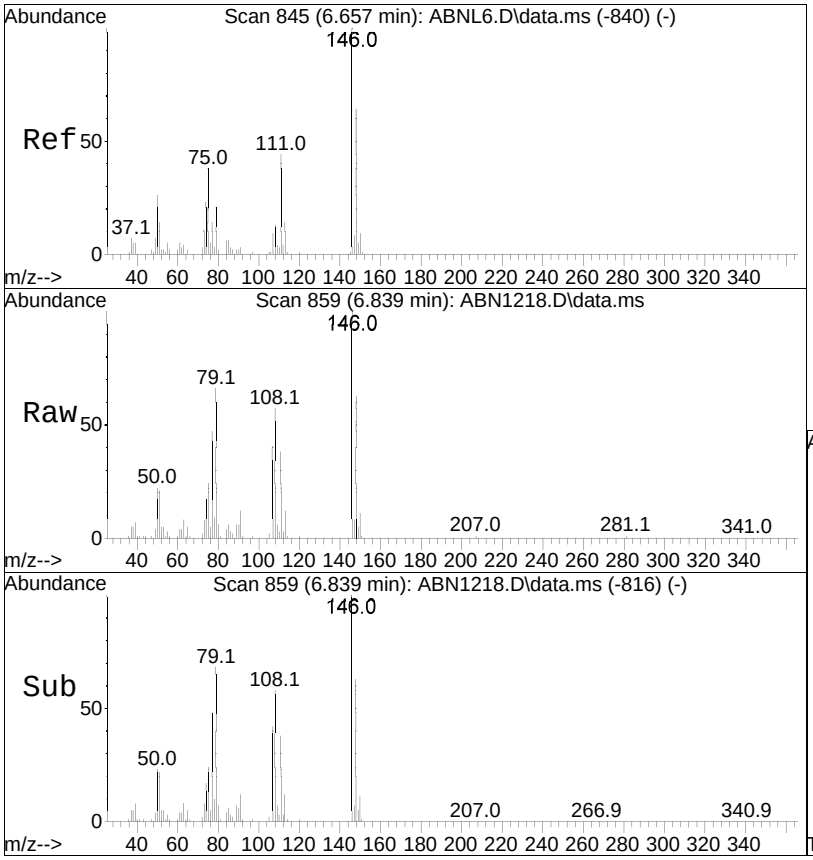


#11
1,4-Dichlorobenzene
Concen: 4.46 ug/ml
RT: 6.663 min Scan# 829
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:146 Resp: 93935

Ion	Ratio	Lower	Upper
146	100		
148	65.8	50.7	76.1
111	39.5	33.4	50.0

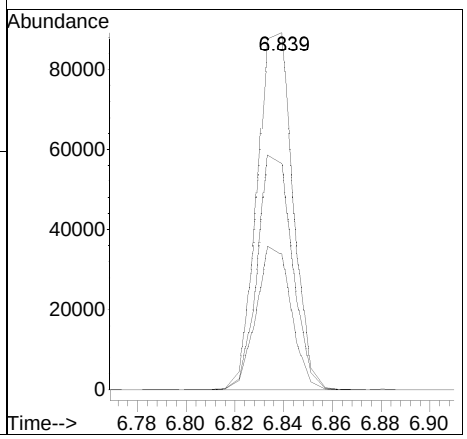


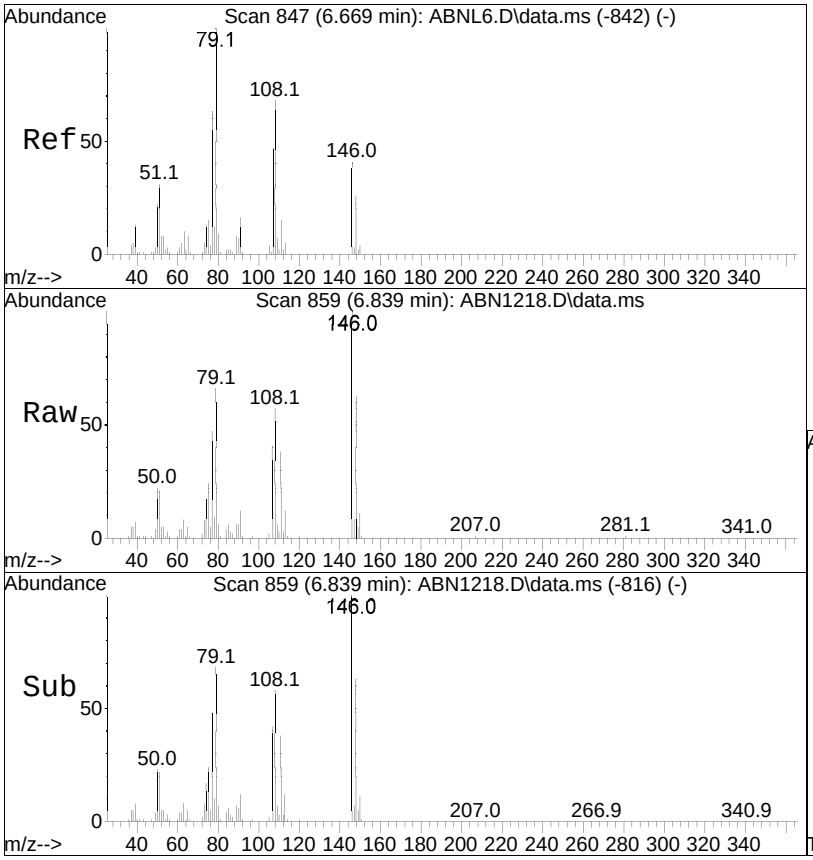


#12
1,2-Dichlorobenzene
Concen: 4.50 ug/ml
RT: 6.839 min Scan# 859
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:146 Resp: 90930

Ion	Ratio	Lower	Upper
146	100		
111	39.6	34.6	52.0
148	64.5	50.2	75.4

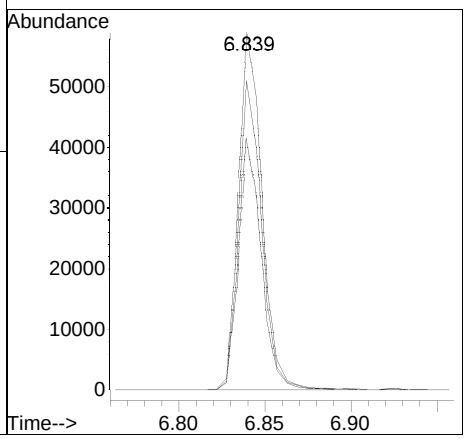


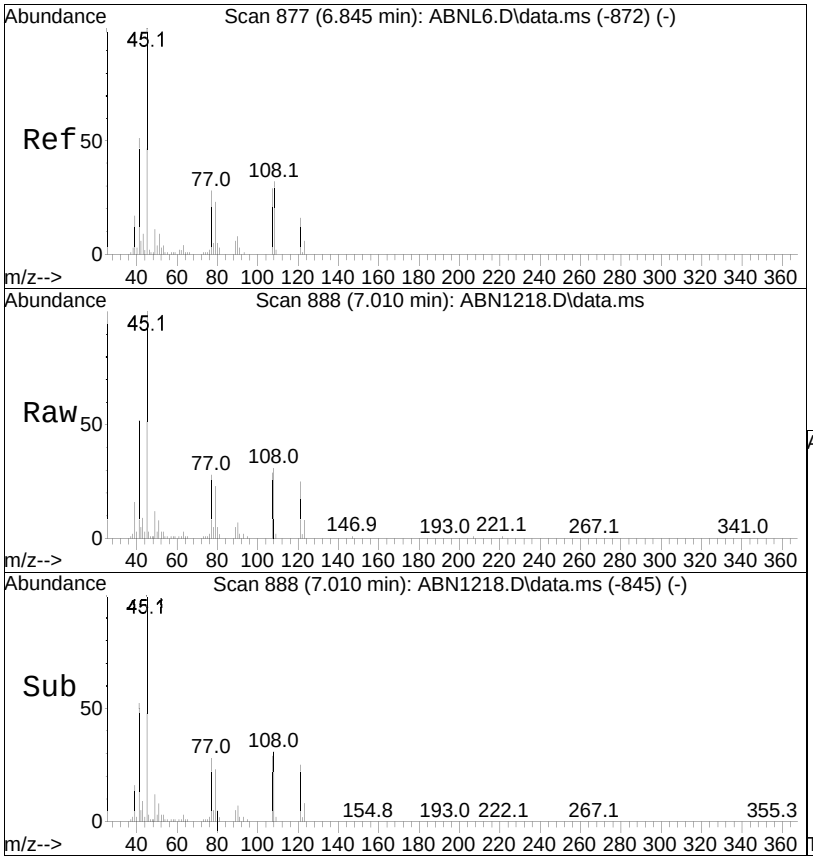


#13
Benzyl alcohol
Concen: 4.24 ug/ml
RT: 6.839 min Scan# 859
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion: 79 Resp: 55785

Ion	Ratio	Lower	Upper
79	100		
77	68.3	54.9	82.3
108	83.6	63.1	94.7

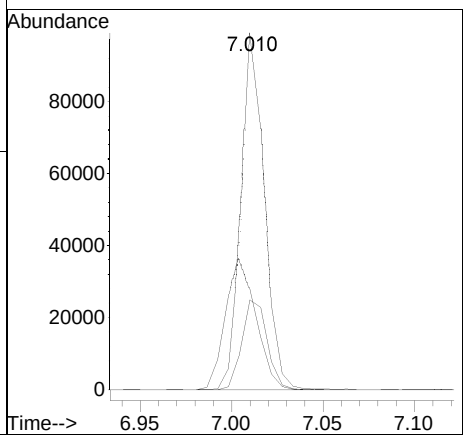


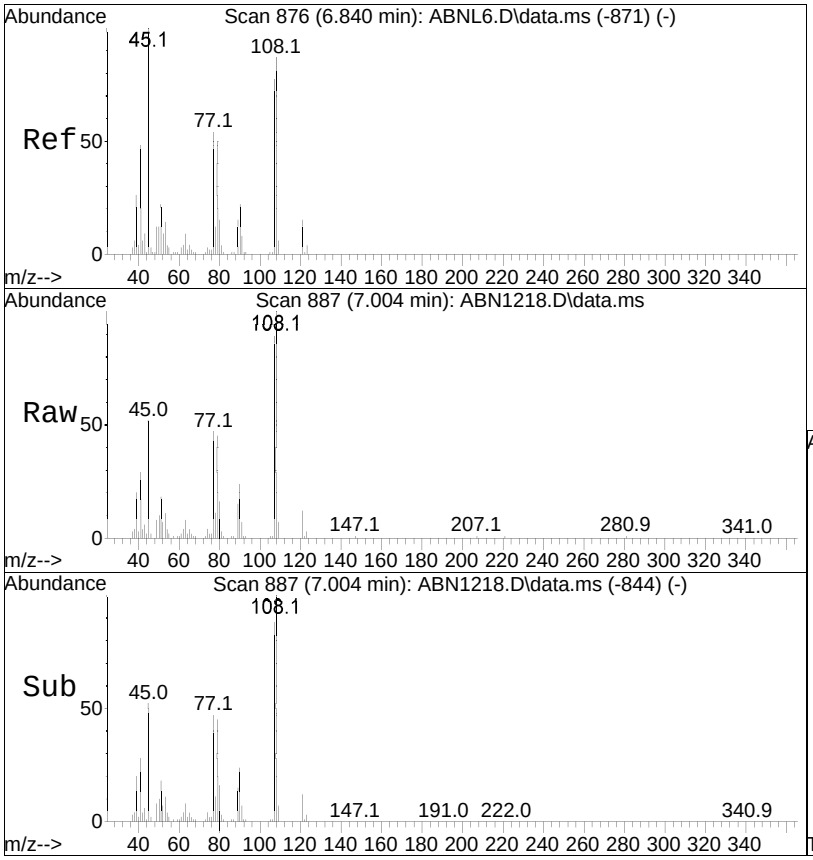


#14
Bis(2-chloroisopropyl)ether
Concen: 3.51 ug/ml
RT: 7.010 min Scan# 888
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion: 45 Resp: 87587

Ion	Ratio	Lower	Upper
45	100		
121	27.2	9.8	14.6#
77	48.2	6.1	9.1#

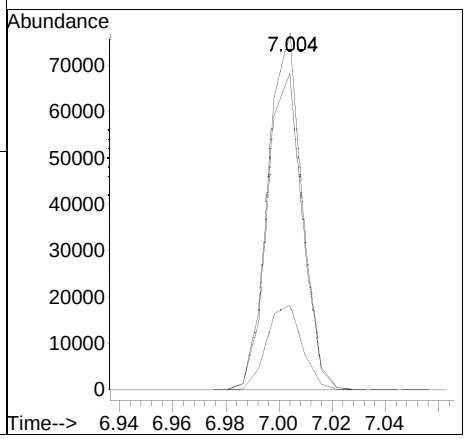


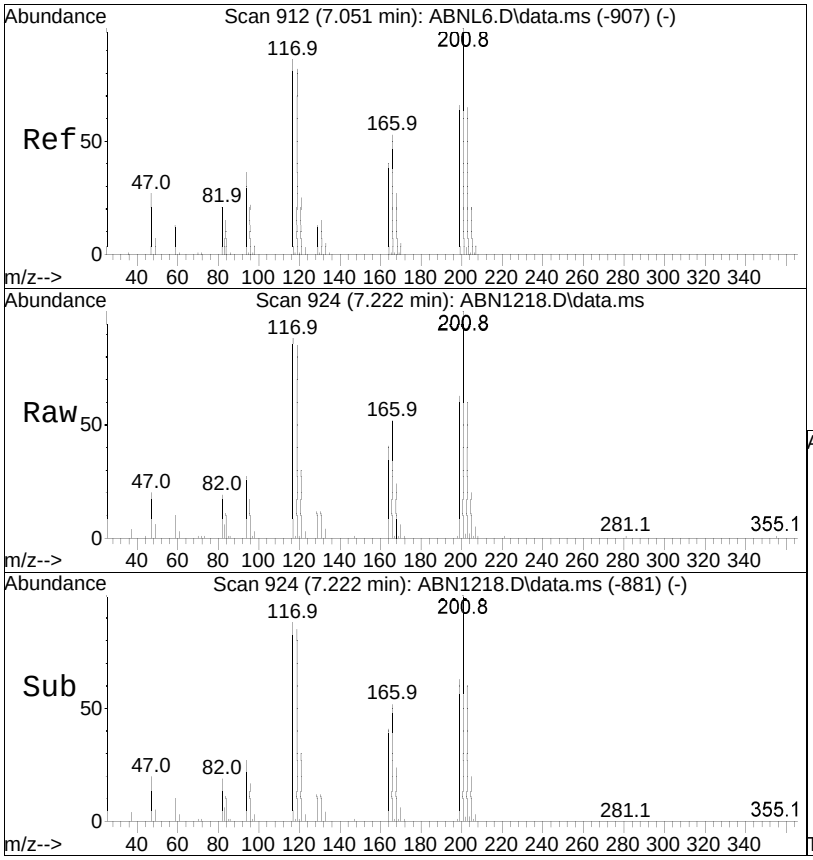


#15
2-Methylphenol
Concen: 4.94 ug/ml
RT: 7.004 min Scan# 887
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:108 Resp: 68808

Ion	Ratio	Lower	Upper
108	100		
107	91.2	70.7	106.1
90	24.7	18.7	28.1

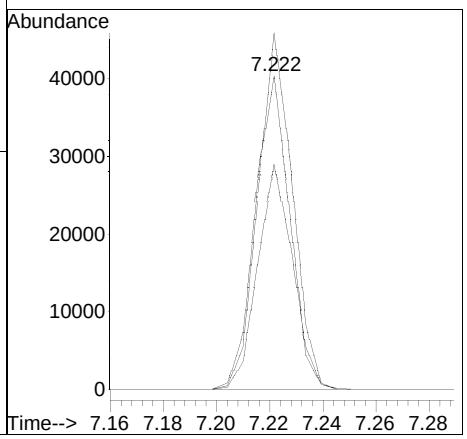


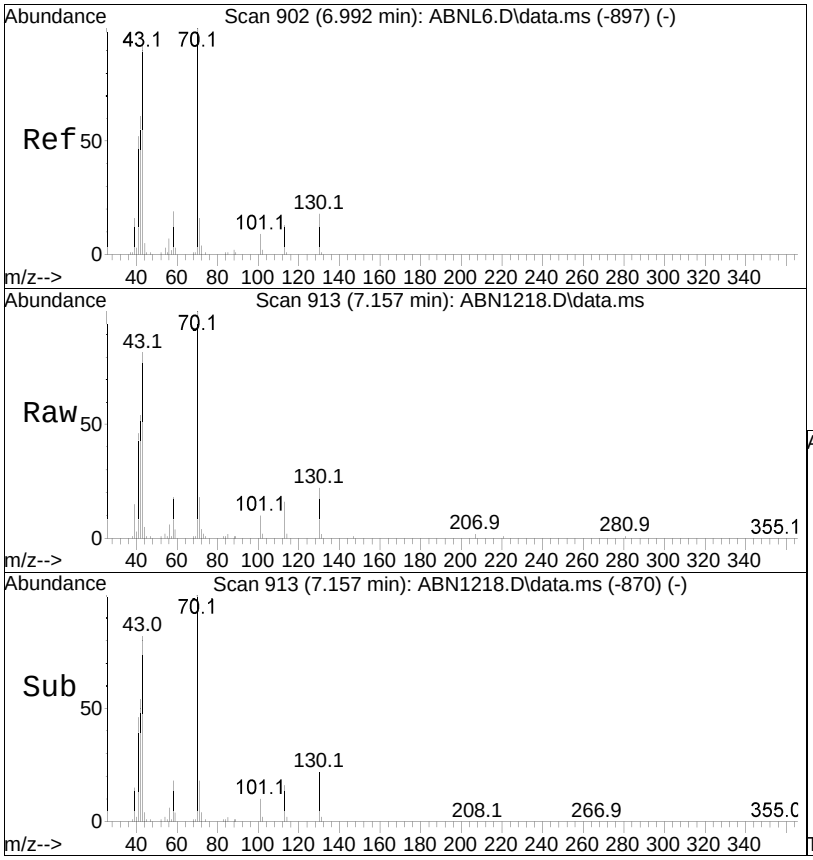


#16
Hexachloroethane
Concen: 4.80 ug/ml
RT: 7.222 min Scan# 924
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:117 Resp: 36555

Ion	Ratio	Lower	Upper
117	100		
201	112.5	58.6	87.8#
199	72.5	36.9	55.3#

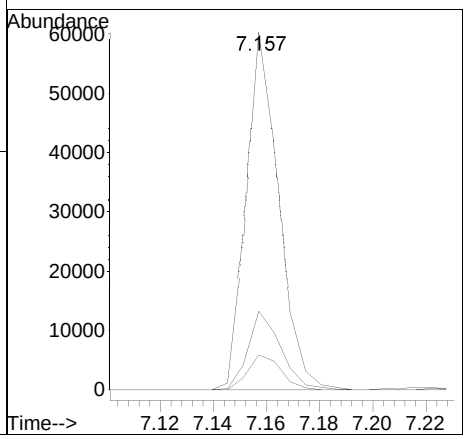


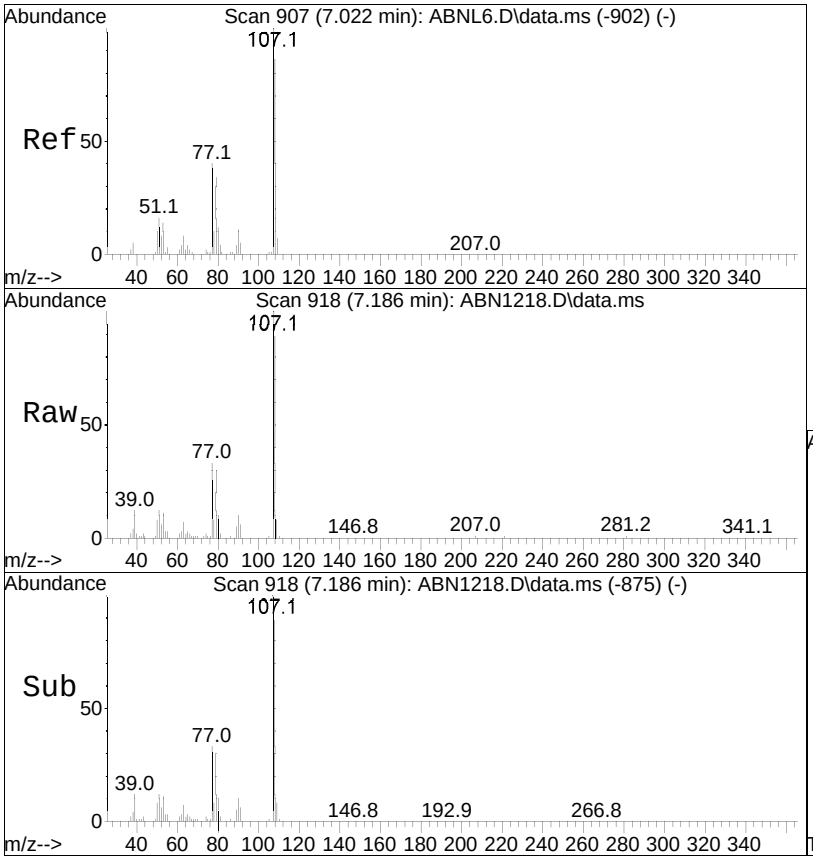


#17
n-Nitrosodi-n-propylamine
Concen: 4.38 ug/ml
RT: 7.157 min Scan# 913
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion: 70 Resp: 51121

Ion	Ratio	Lower	Upper
70	100		
130	22.2	18.2	27.4
101	9.9	7.8	11.8

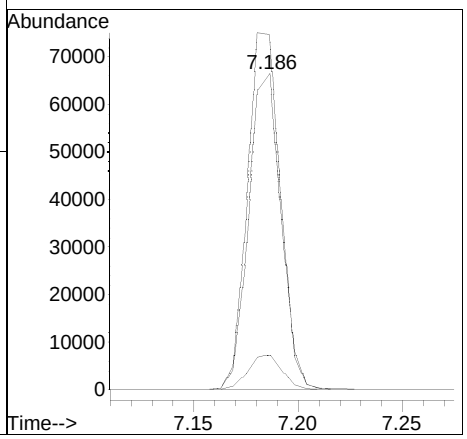


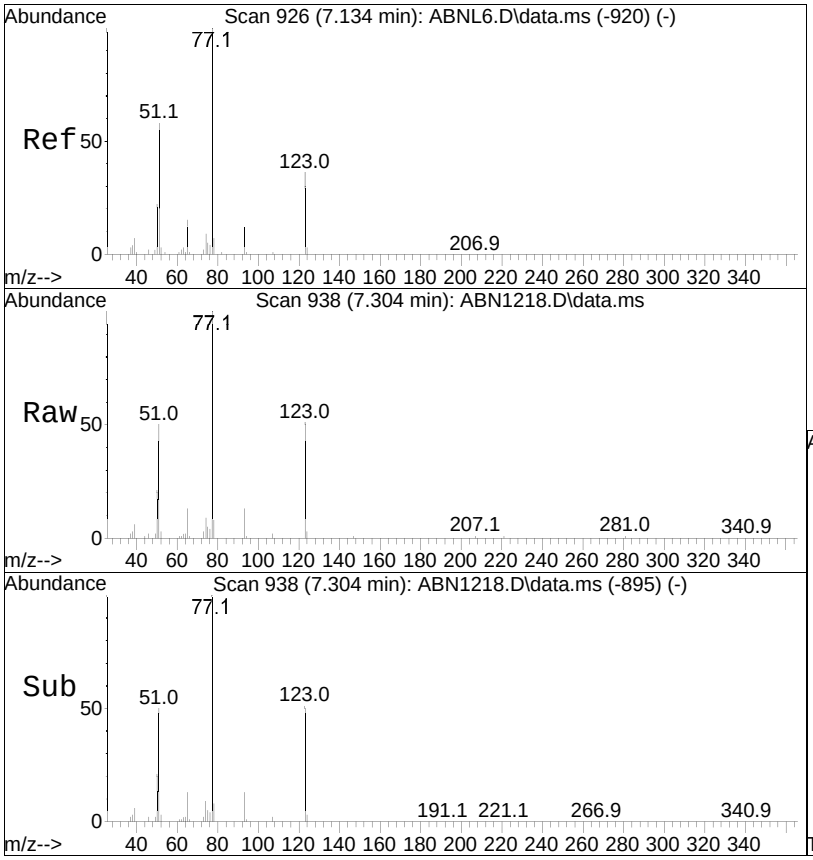


#18
3-Methylphenol/4-Methylphenol
Concen: 4.73 ug/ml
RT: 7.186 min Scan# 918
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:108 Resp: 71892

Ion	Ratio	Lower	Upper
108	100		
107	114.7	88.6	132.8
90	11.4	8.8	13.2

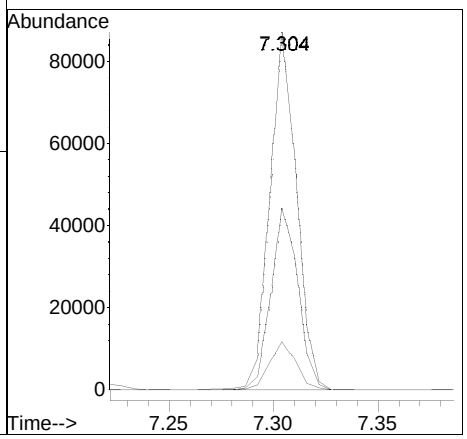


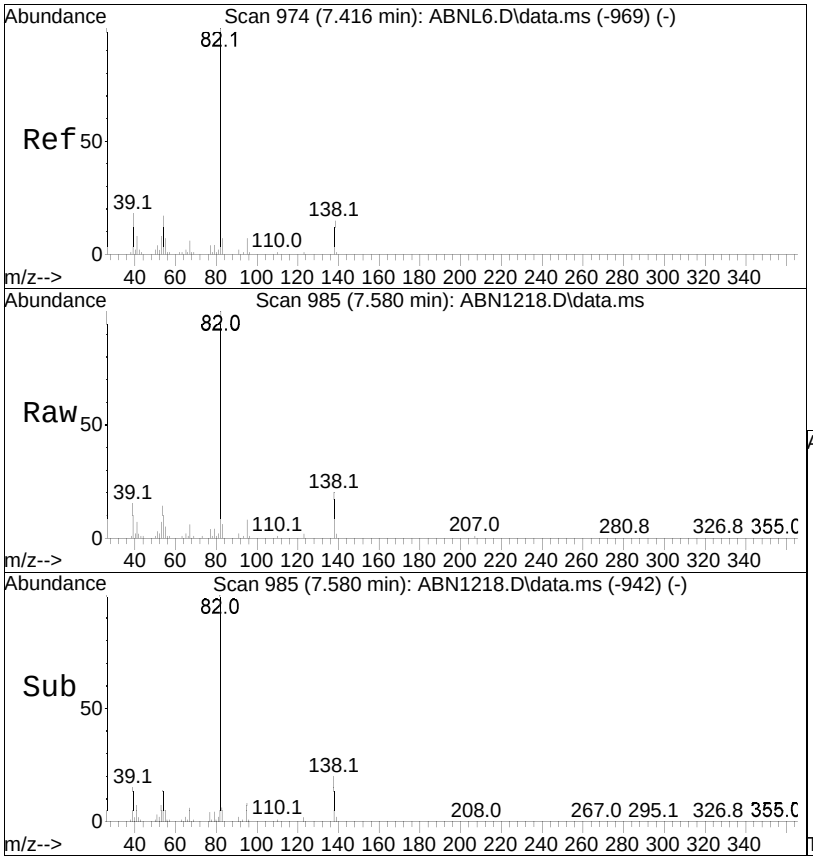


#20
Nitrobenzene
Concen: 4.44 ug/ml
RT: 7.304 min Scan# 938
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion: 77 Resp: 76465

Ion	Ratio	Lower	Upper
77	100		
123	51.5	36.3	54.5
65	13.7	11.6	17.4

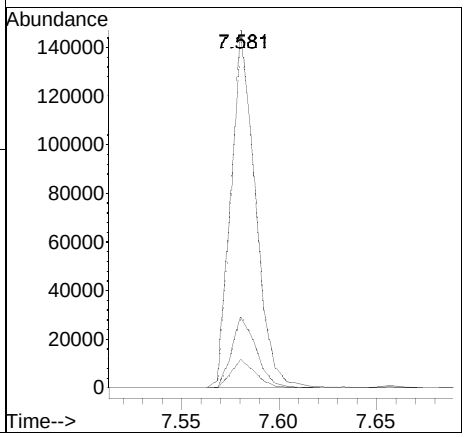


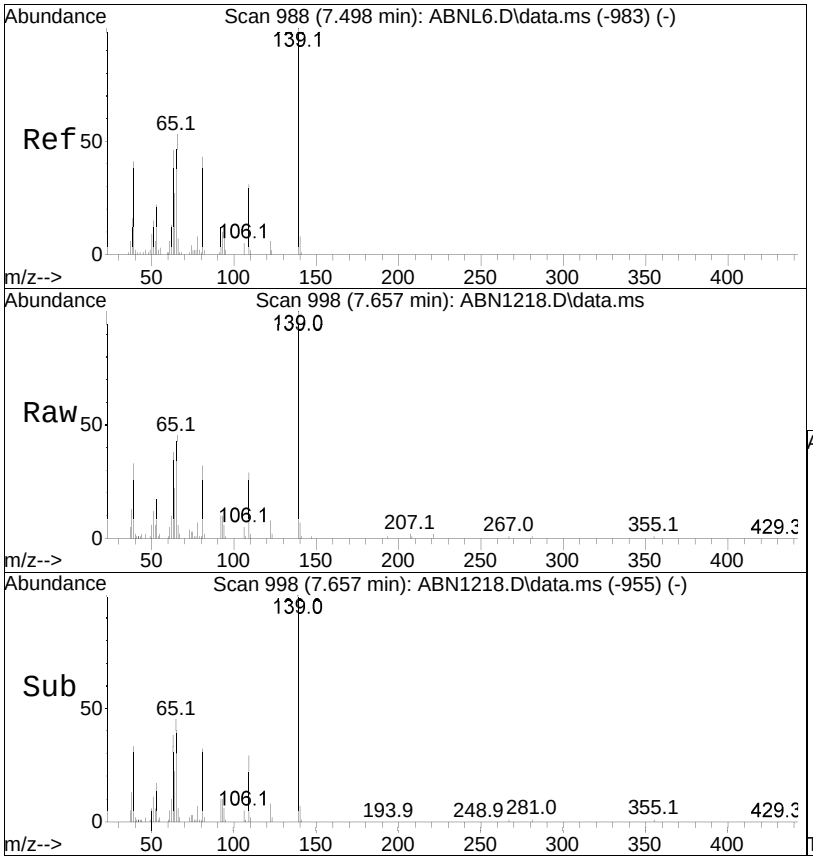


#21
Isophorone
Concen: 4.24 ug/ml
RT: 7.580 min Scan# 985
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion: 82 Resp: 127036

Ion	Ratio	Lower	Upper
82	100		
138	20.0	14.7	22.1
95	7.9	5.2	7.8#

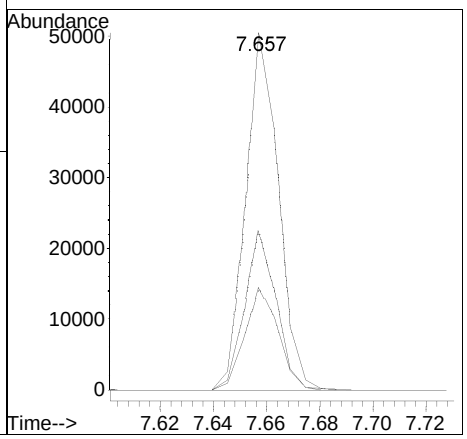


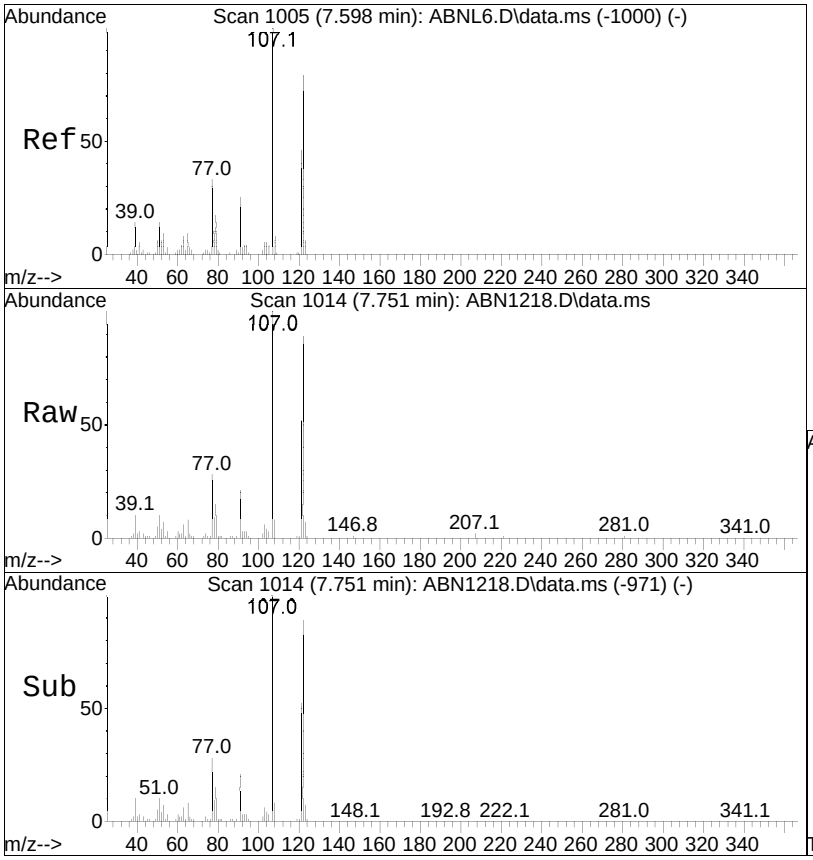


#22
2-Nitrophenol
Concen: 4.85 ug/ml
RT: 7.657 min Scan# 998
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:139 Resp: 42845

Ion	Ratio	Lower	Upper
139	100		
109	29.3	19.4	29.0#
65	42.9	46.1	69.1#

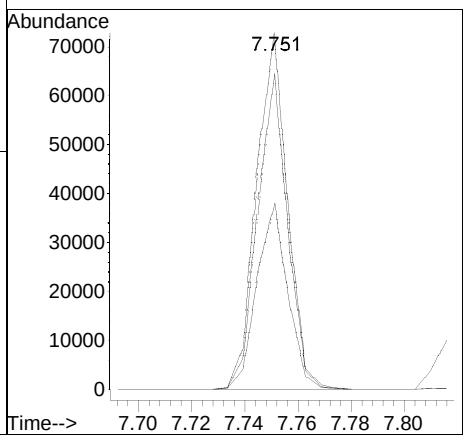


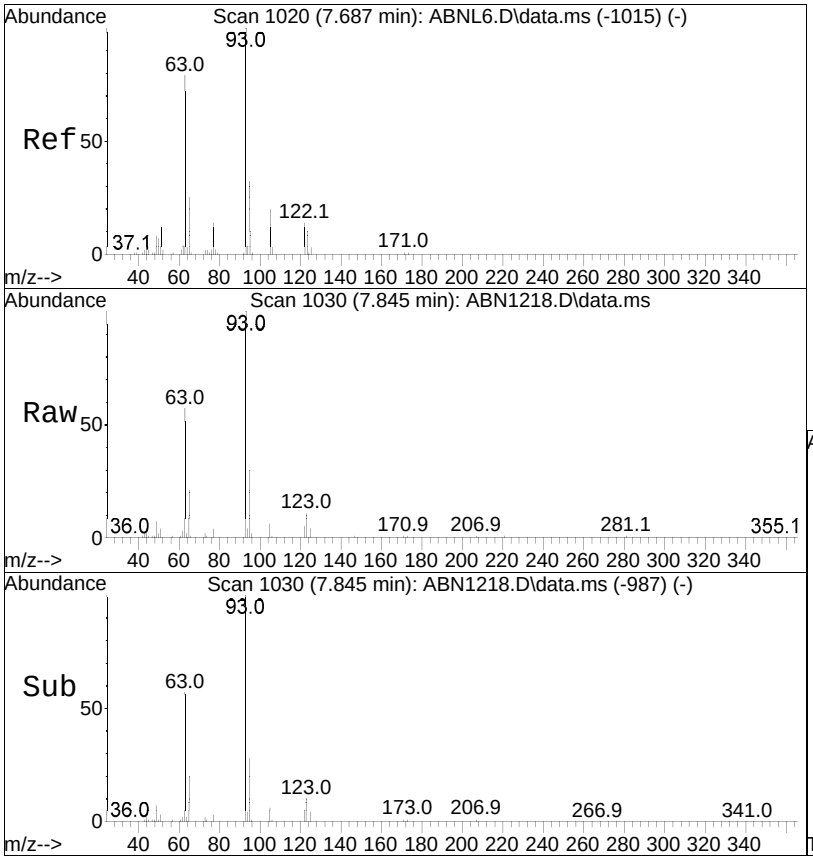


#23
2,4-Dimethylphenol
Concen: 4.22 ug/ml
RT: 7.751 min Scan# 1014
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:107 Resp: 58587

Ion	Ratio	Lower	Upper
107	100		
121	52.3	40.0	60.0
122	85.5	70.2	105.4

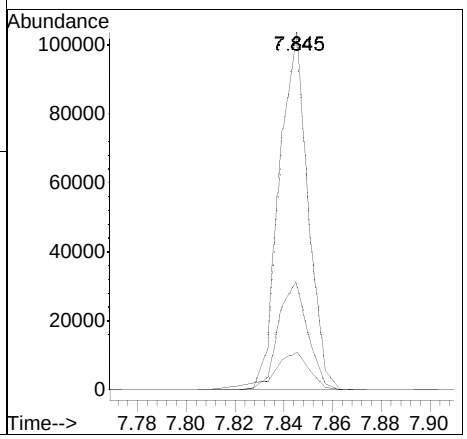


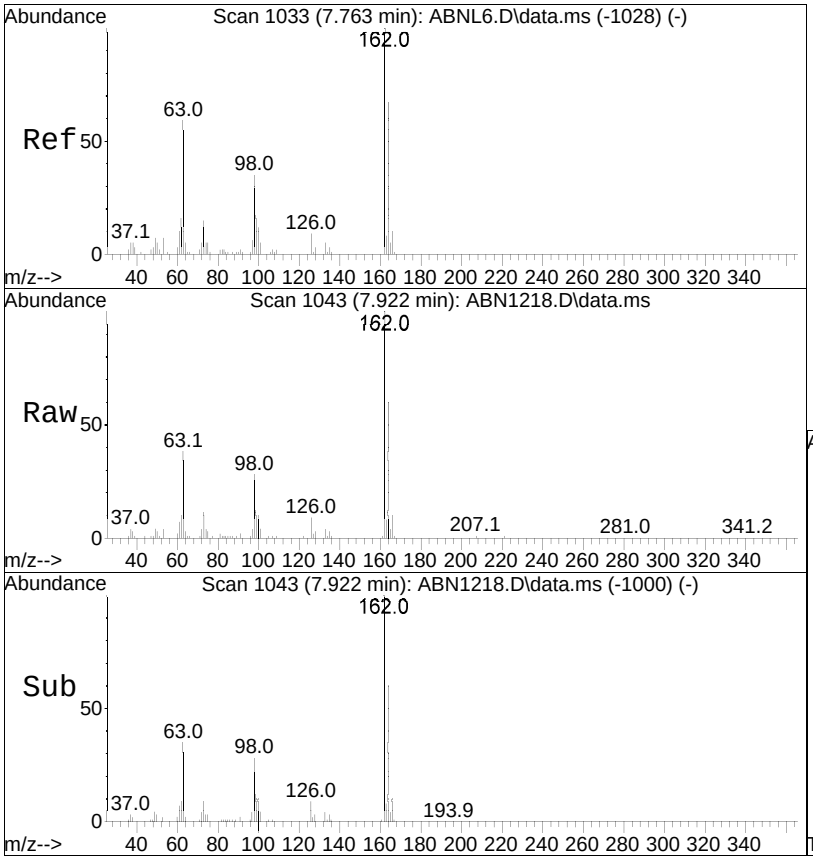


#24
Bis(2-chloroethoxy)methane
Concen: 4.20 ug/ml
RT: 7.845 min Scan# 1030
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion: 93 Resp: 84119

Ion	Ratio	Lower	Upper
93	100		
95	31.2	25.8	38.8
123	13.6	10.1	15.1

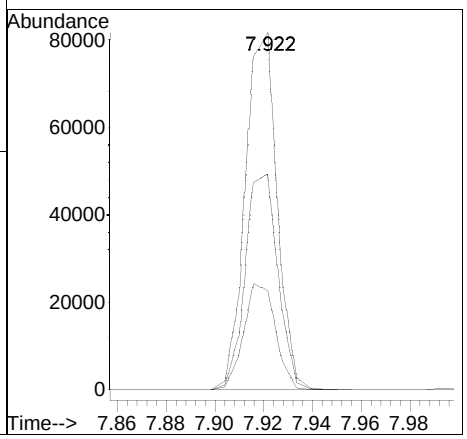


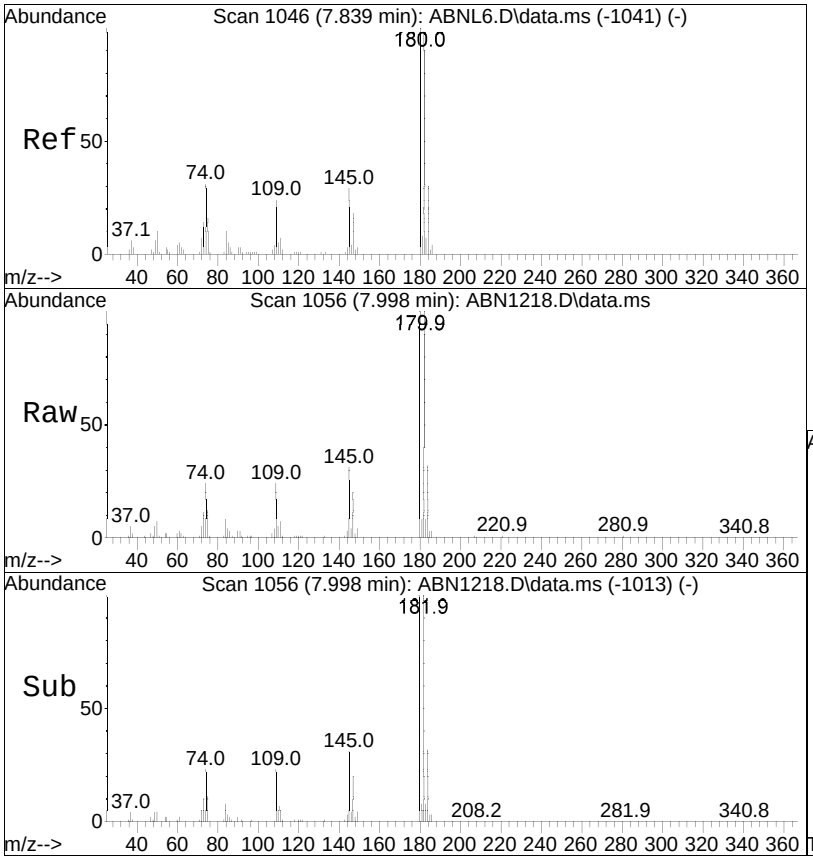


#25
2,4-Dichlorophenol
Concen: 4.77 ug/ml
RT: 7.922 min Scan# 1043
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:162 Resp: 74018

Ion	Ratio	Lower	Upper
162	100		
164	61.9	51.0	76.4
98	30.0	32.2	48.2#

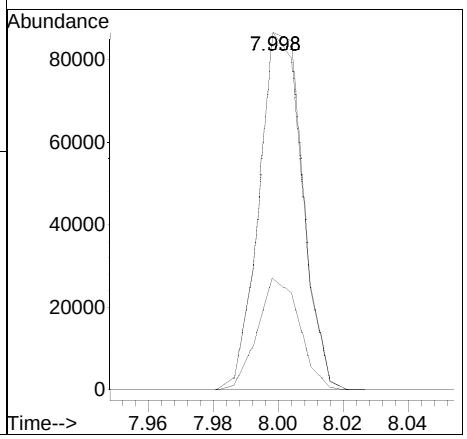


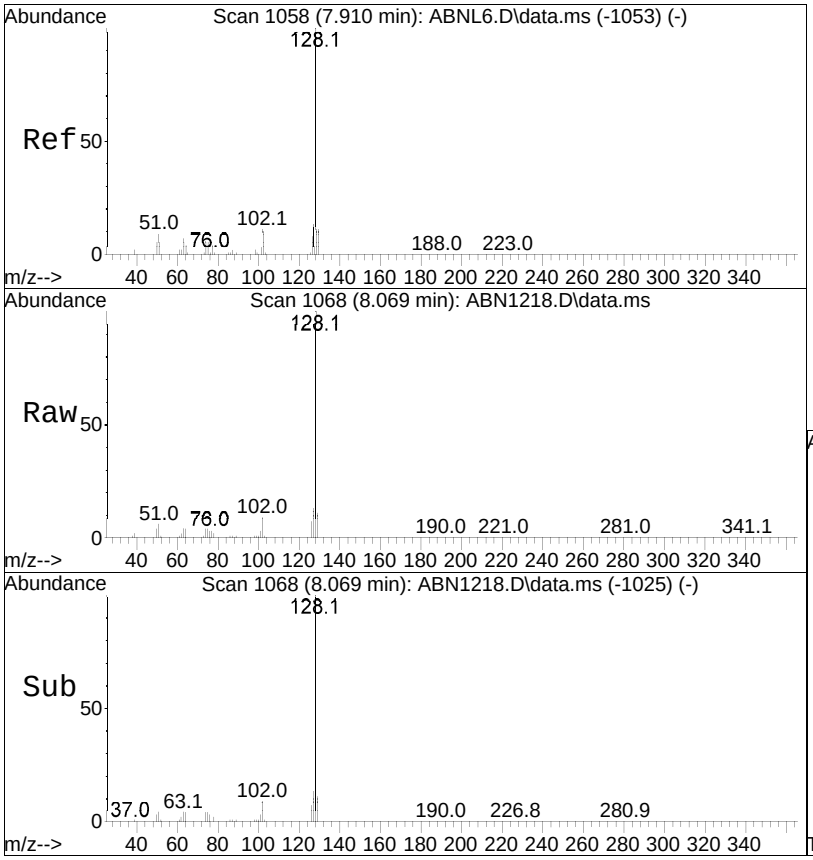


#26
1,2,4-Trichlorobenzene
Concen: 4.52 ug/ml
RT: 7.998 min Scan# 1056
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:180 Resp: 81204

Ion	Ratio	Lower	Upper
180	100		
182	97.9	76.0	114.0
145	30.1	25.7	38.5

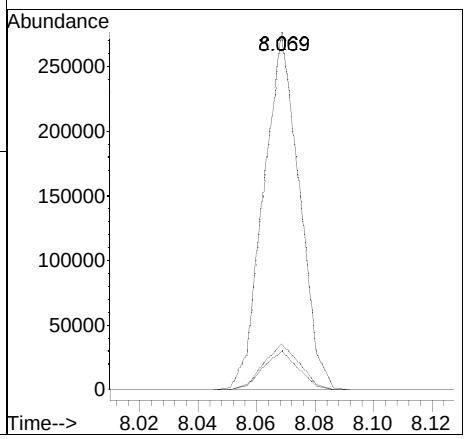


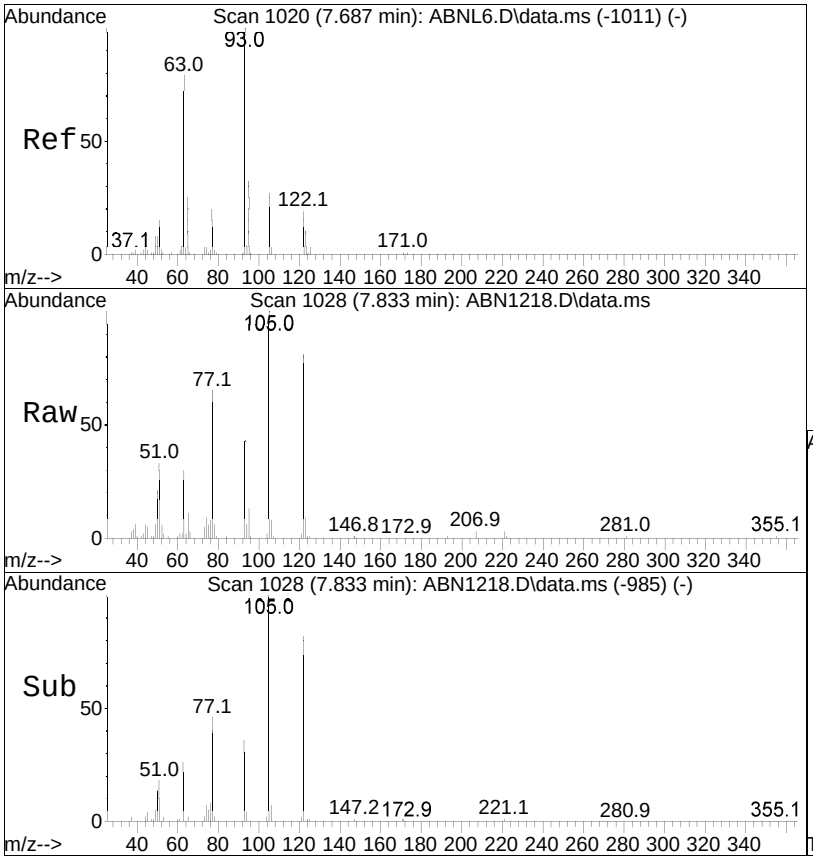


#36
Naphthalene
Concen: 4.48 ug/ml
RT: 8.069 min Scan# 1068
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:128 Resp: 231395

Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.7	13.1
127	13.1	10.3	15.5

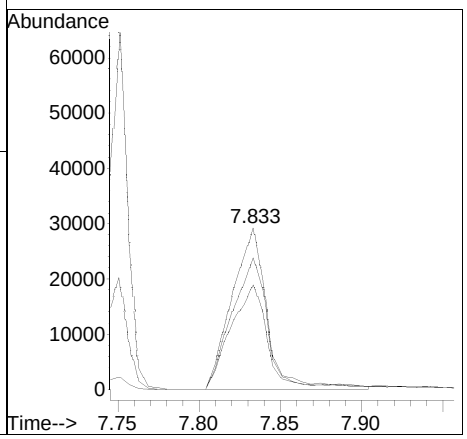


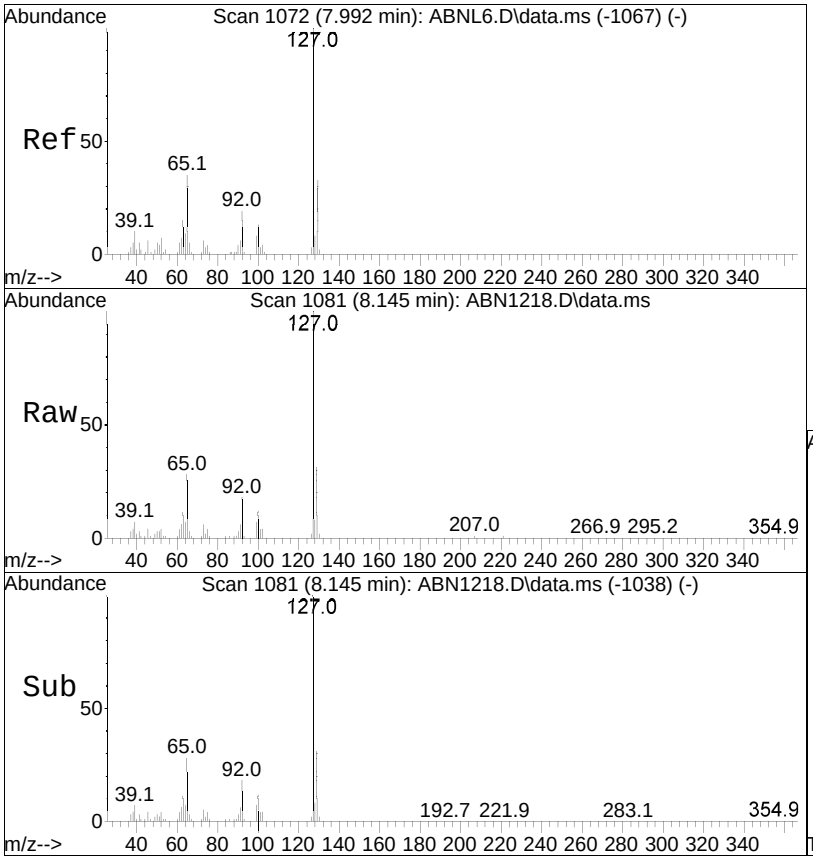


#37
Benzoic Acid
Concen: 4.59 ug/ml
RT: 7.833 min Scan# 1028
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:105 Resp: 44281

Ion	Ratio	Lower	Upper
105	100		
122	81.6	59.9	89.9
77	68.6	60.1	90.1

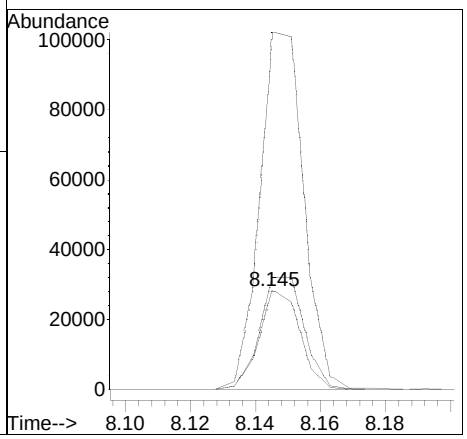


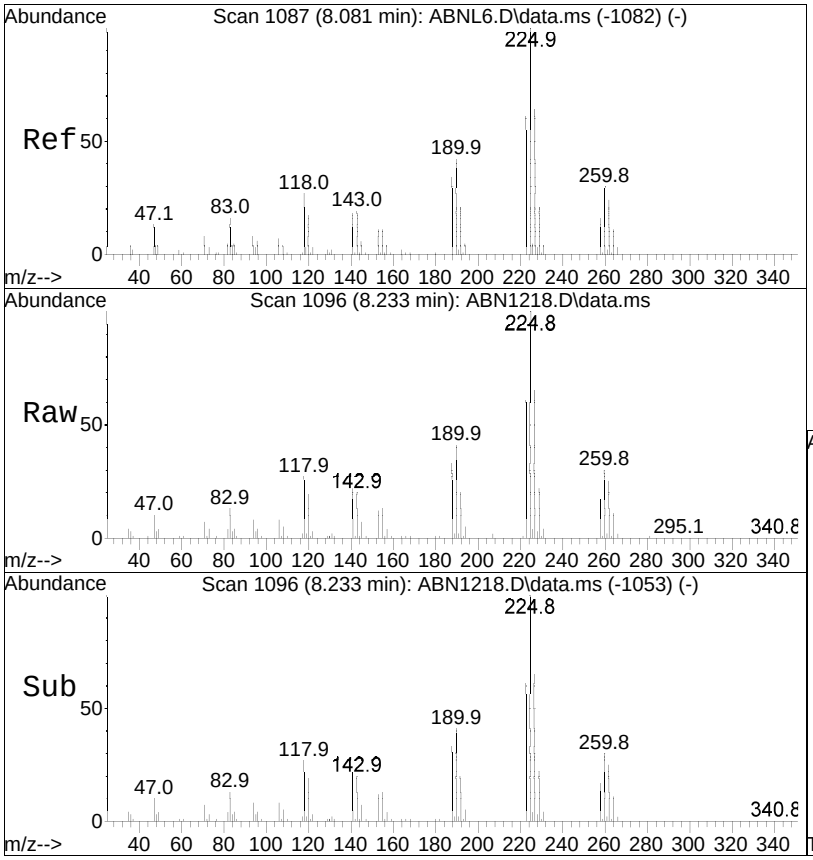


#38
4-Chloroaniline
Concen: 4.26 ug/ml
RT: 8.145 min Scan# 1081
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion: 65 Resp: 24699

Ion	Ratio	Lower	Upper
65	100		
127	385.0	237.6	356.4#
129	123.1	76.3	114.5#

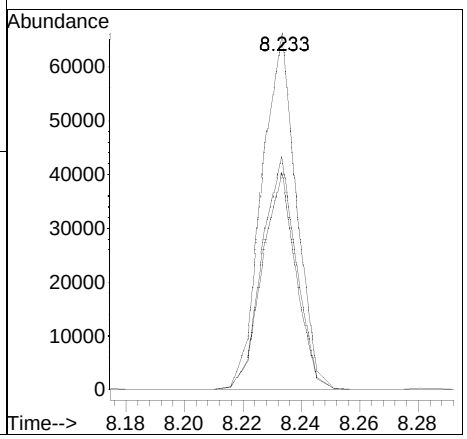


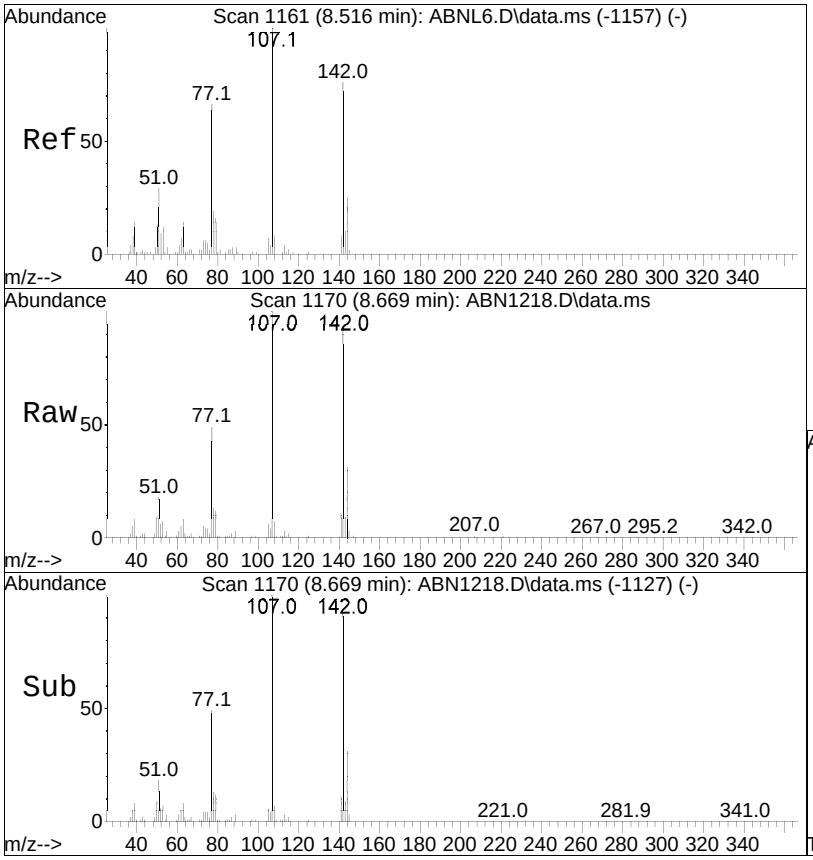


#39
Hexachlorobutadiene
Concen: 4.95 ug/ml
RT: 8.233 min Scan# 1096
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:225 Resp: 54132

Ion	Ratio	Lower	Upper
225	100		
223	59.9	50.3	75.5
227	65.2	52.2	78.2

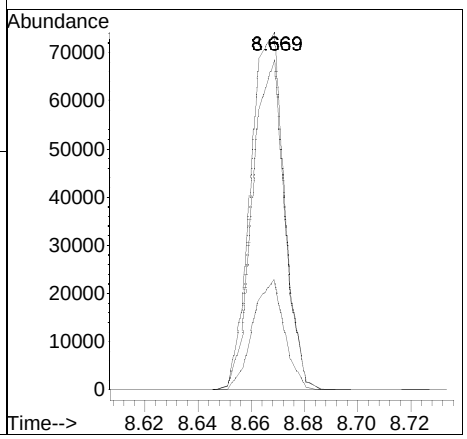


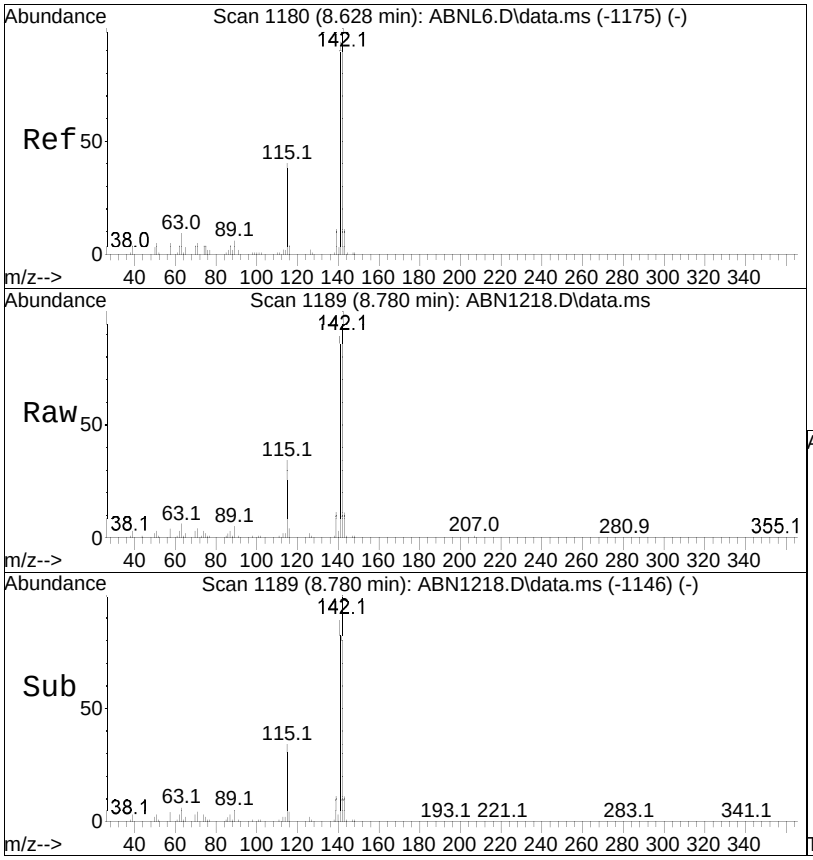


#40
p-Chloro-m-cresol
Concen: 4.79 ug/ml
RT: 8.669 min Scan# 1170
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:107 Resp: 64934

Ion	Ratio	Lower	Upper
107	100		
144	29.1	20.9	31.3
142	87.6	66.1	99.1

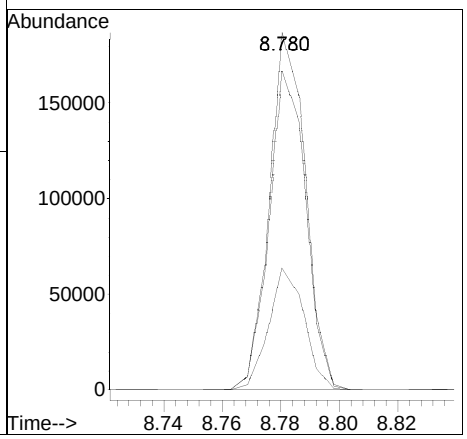


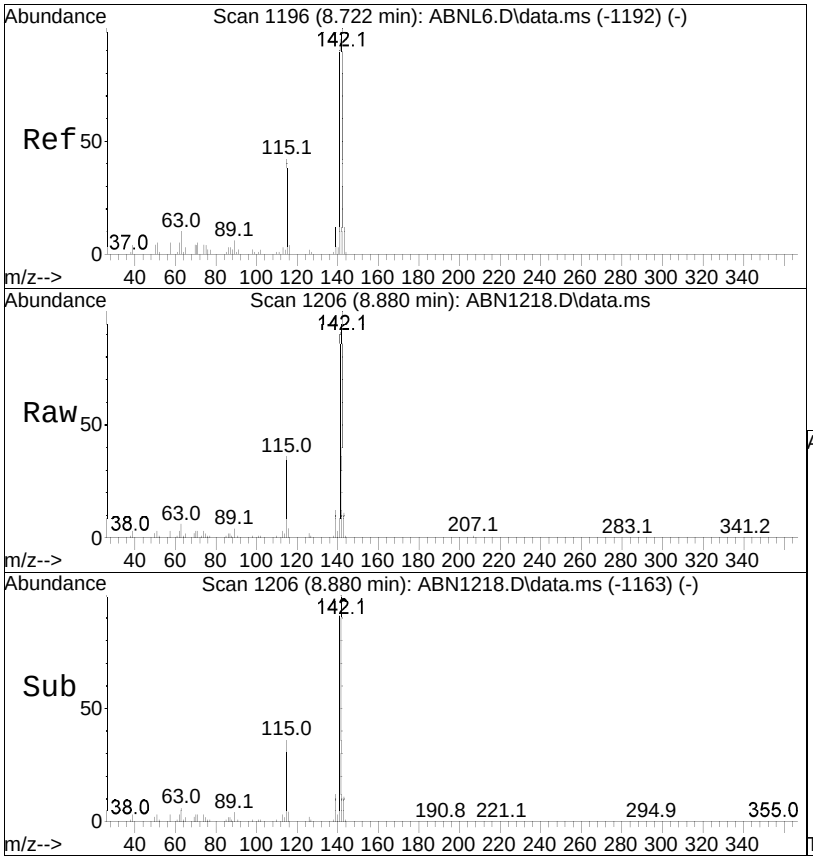


#41
2-Methylnaphthalene
Concen: 4.65 ug/ml
RT: 8.780 min Scan# 1189
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:142 Resp: 160141

Ion	Ratio	Lower	Upper
142	100		
141	90.5	69.6	104.4
115	33.8	26.6	40.0

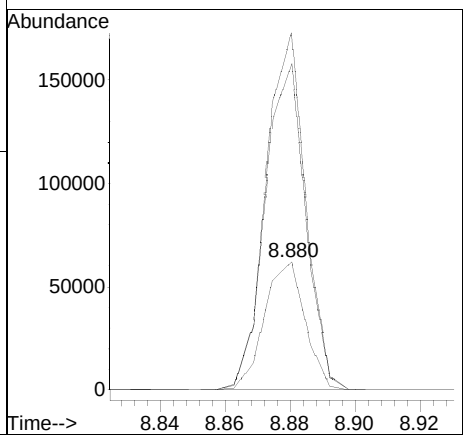


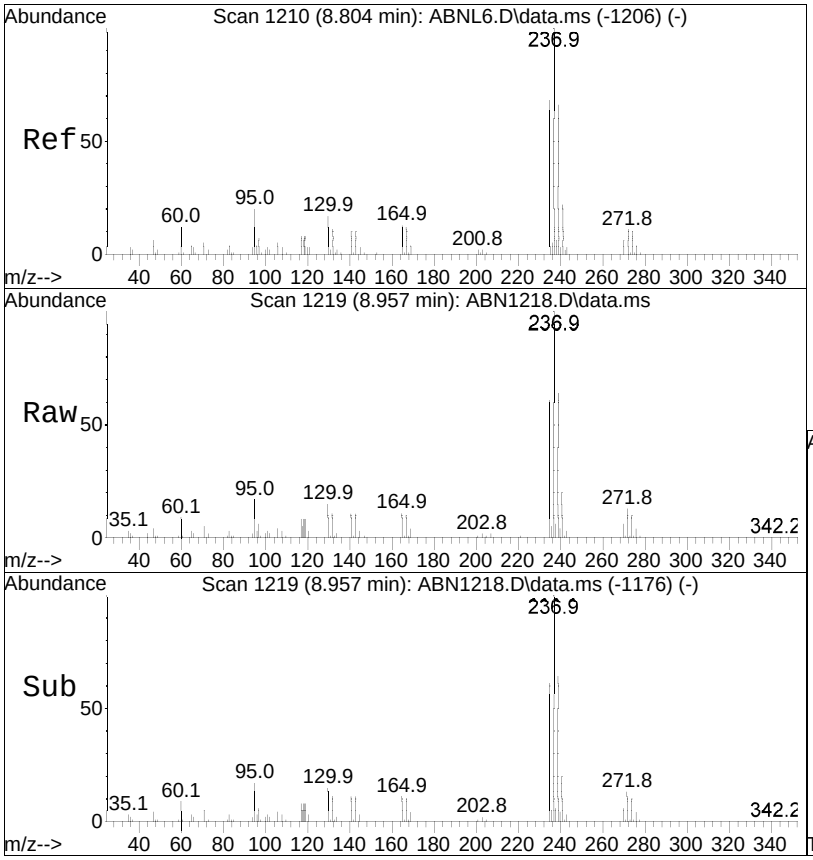


#42
1-Methylnaphthalene
Concen: 4.85 ug/ml
RT: 8.880 min Scan# 1206
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:115 Resp: 54015

Ion	Ratio	Lower	Upper
115	100		
141	252.9	207.8	311.6
142	272.0	226.8	340.2

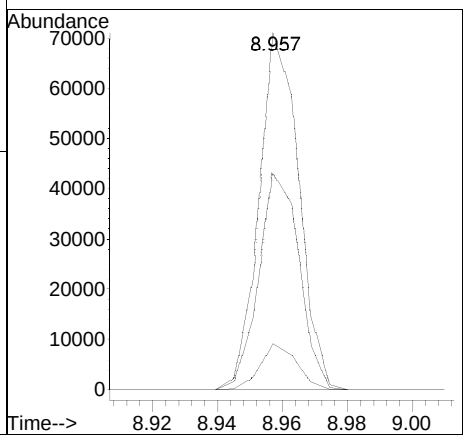


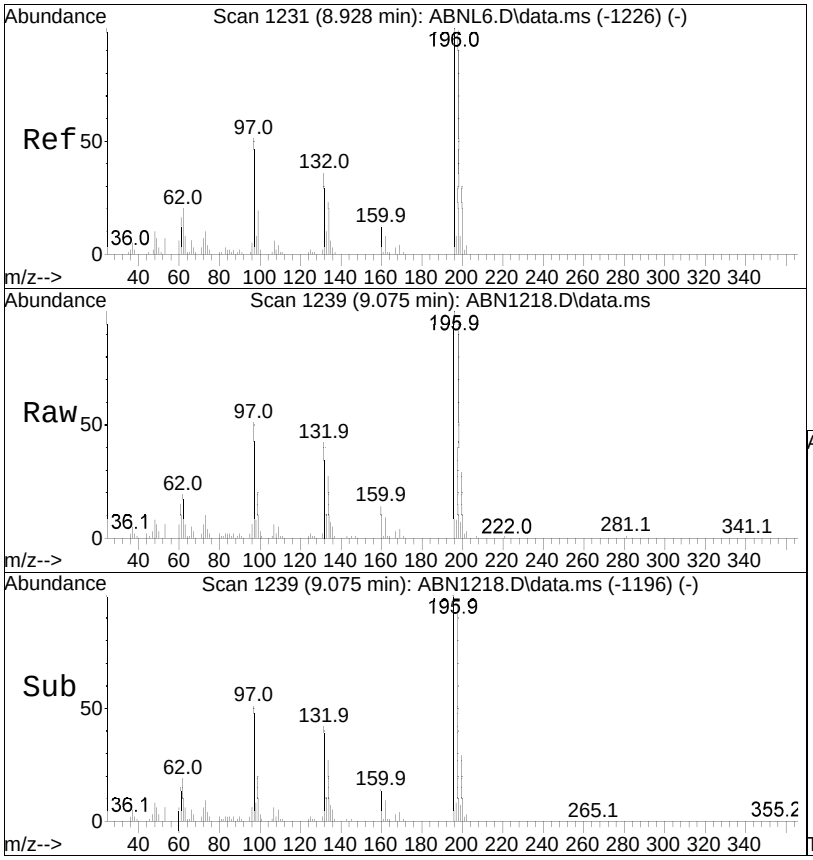


#43
Hexachlorocyclopentadiene
Concen: 5.01 ug/ml
RT: 8.957 min Scan# 1219
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:237 Resp: 60071

Ion	Ratio	Lower	Upper
237	100		
235	62.0	49.7	74.5
272	12.2	9.8	14.6

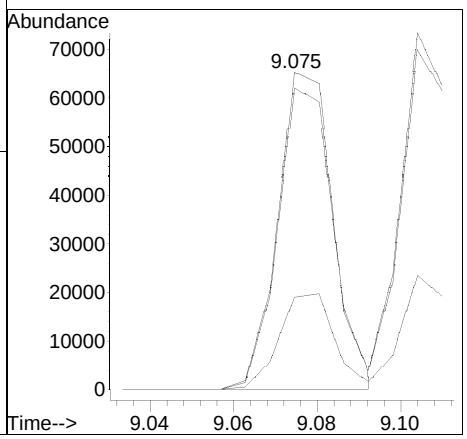


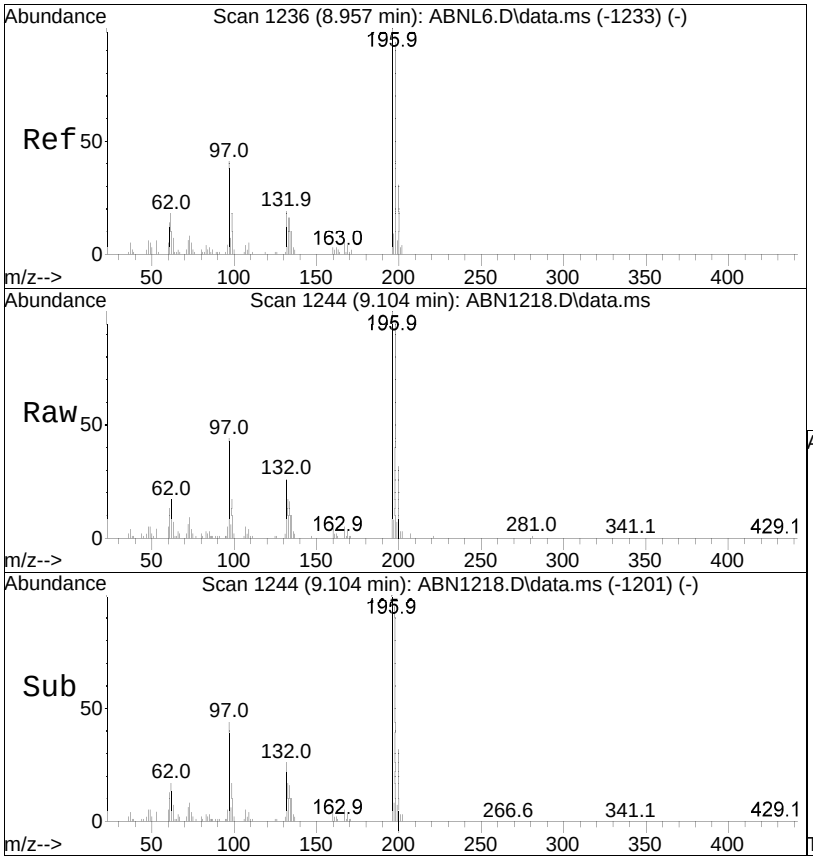


#44
2,4,6-Trichlorophenol
Concen: 4.78 ug/ml
RT: 9.075 min Scan# 1239
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:196 Resp: 60151

Ion	Ratio	Lower	Upper
196	100		
198	95.4	77.5	116.3
200	30.5	23.8	35.6

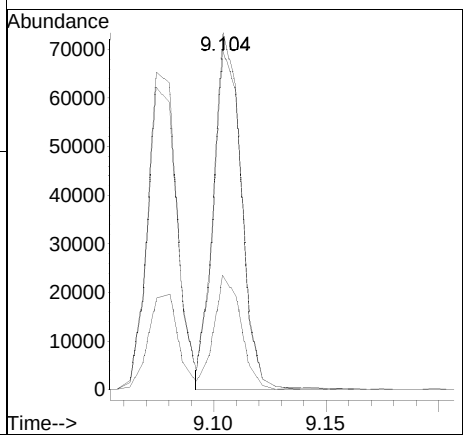


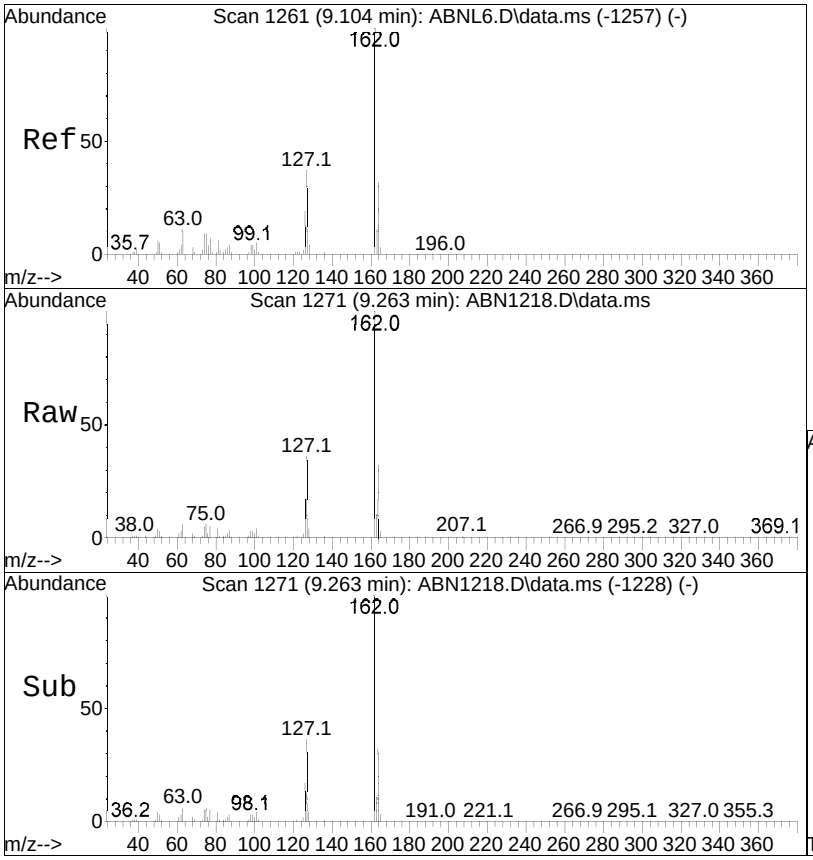


#45
2,4,5-Trichlorophenol
Concen: 4.84 ug/ml
RT: 9.104 min Scan# 1244
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:196 Resp: 63151

Ion	Ratio	Lower	Upper
196	100		
200	31.2	25.4	38.0
198	95.8	78.0	117.0

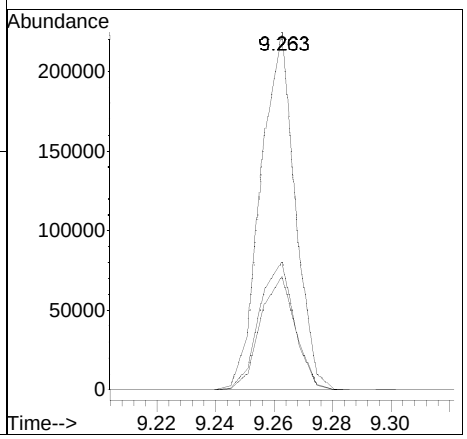


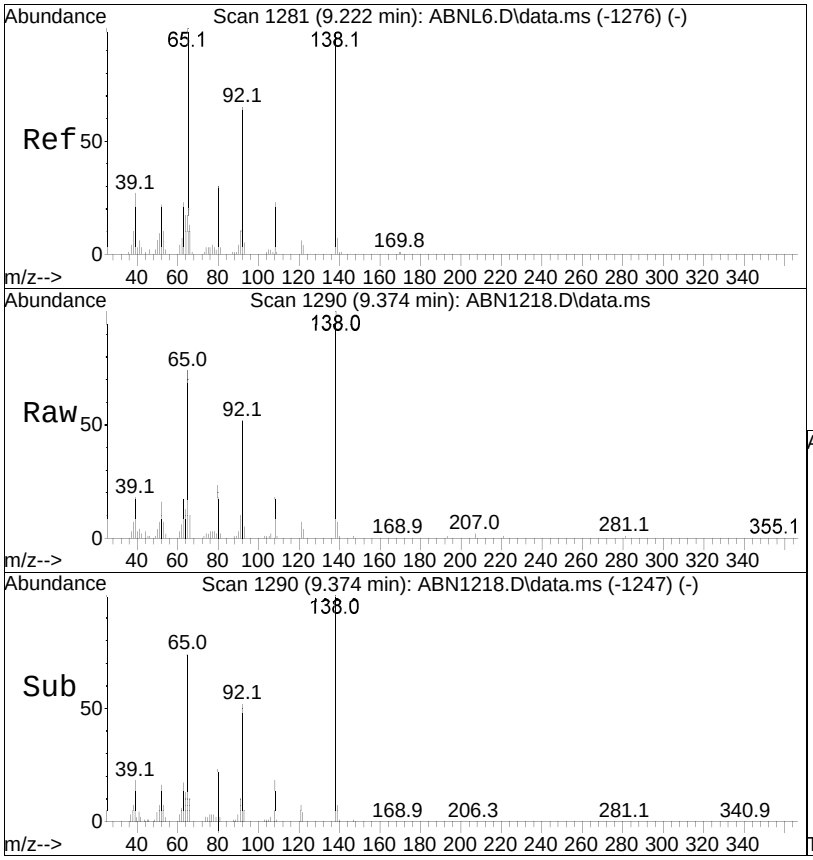


#47
2-Chloronaphthalene
Concen: 5.08 ug/ml
RT: 9.263 min Scan# 1271
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:162 Resp: 182283

Ion	Ratio	Lower	Upper
162	100		
127	36.8	32.2	48.4
164	32.9	25.7	38.5

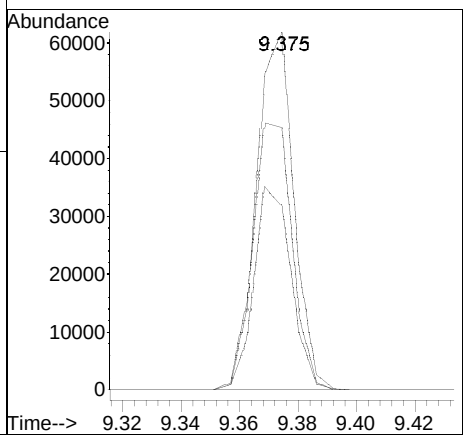


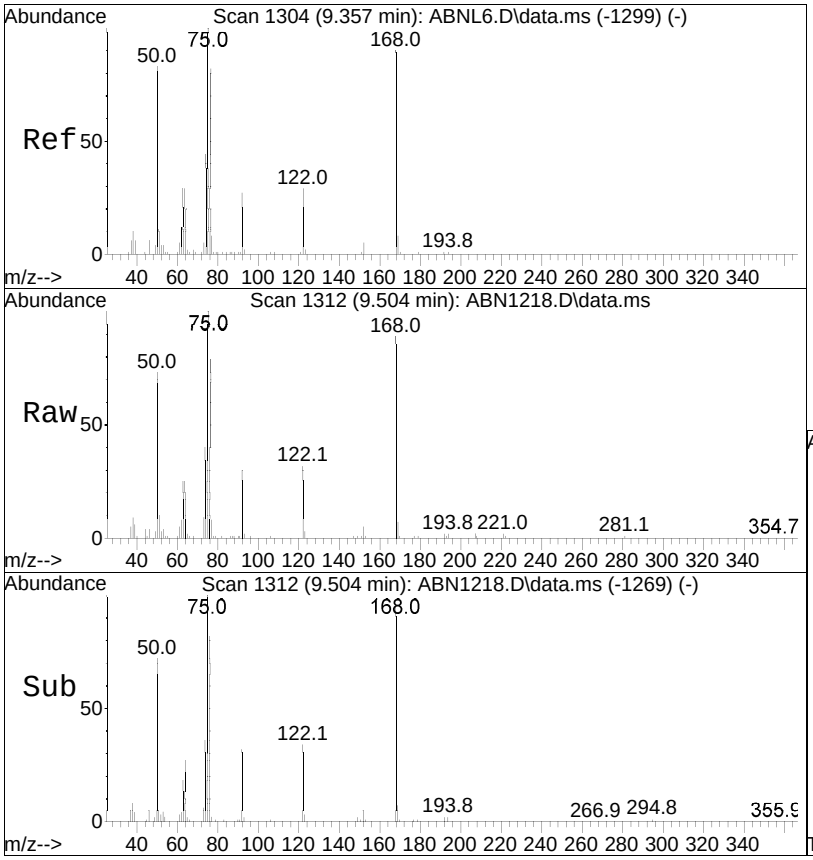


#48
2-Nitroaniline
Concen: 5.32 ug/ml
RT: 9.374 min Scan# 1290
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:138 Resp: 54405

Ion	Ratio	Lower	Upper
138	100		
92	56.8	53.5	80.3
65	79.3	86.3	129.5#

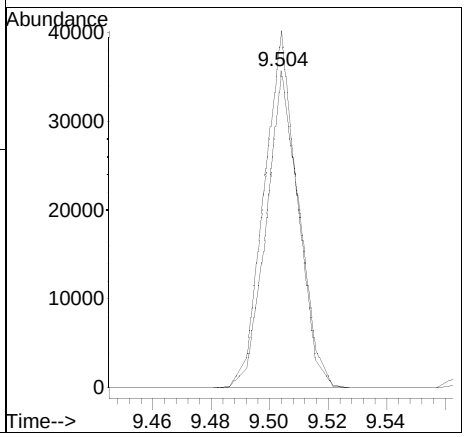


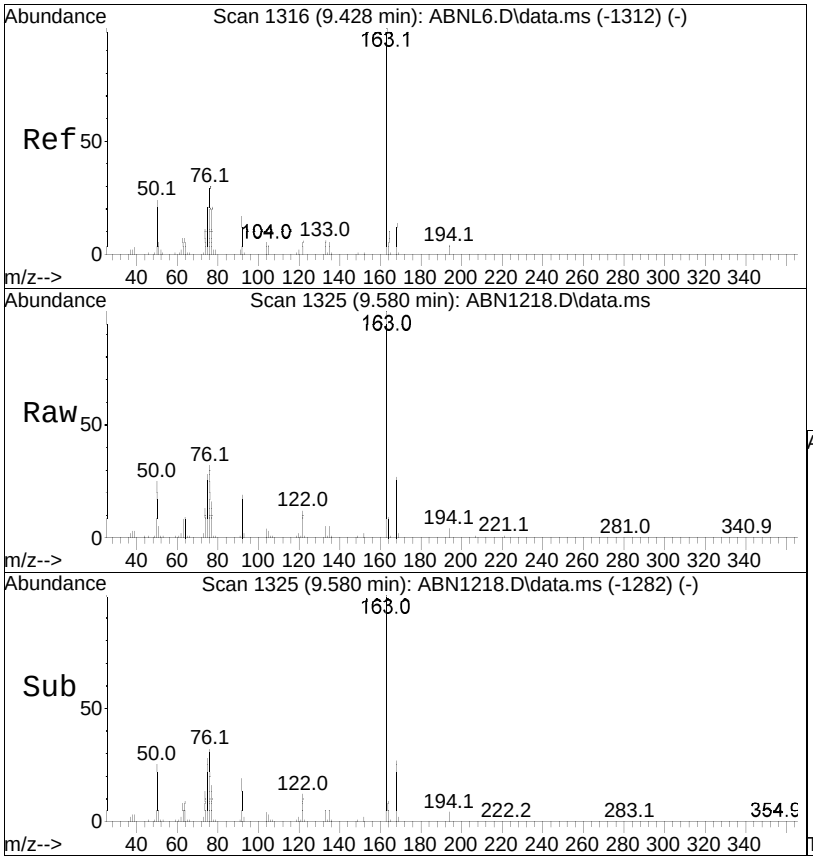


#49
1,4-Dinitrobenzene
Concen: 5.36 ug/ml
RT: 9.504 min Scan# 1312
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:168 Resp: 27967

Ion	Ratio	Lower	Upper
168	100		
75	112.2	121.8	182.8#

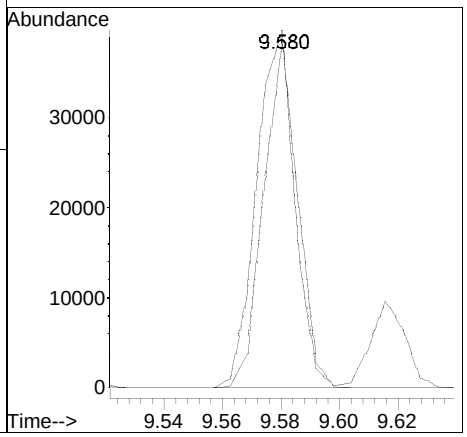


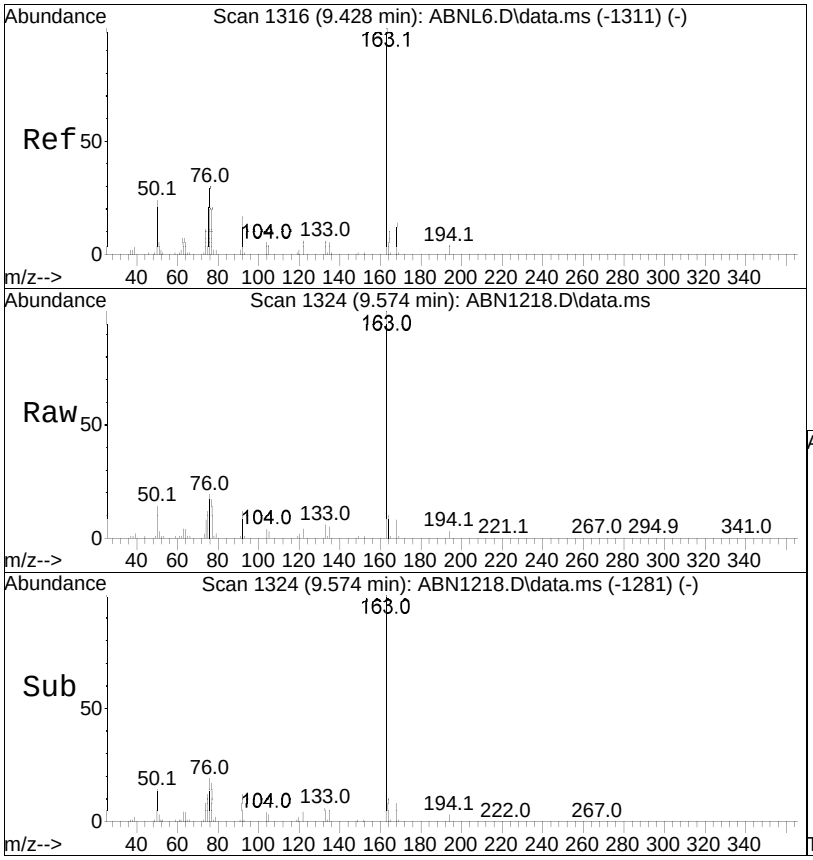


#50
1,3-Dinitrobenzene
Concen: 5.41 ug/ml
RT: 9.580 min Scan# 1325
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:168 Resp: 30926

Ion	Ratio	Lower	Upper
168	100		
75	115.1	22.7	34.1#

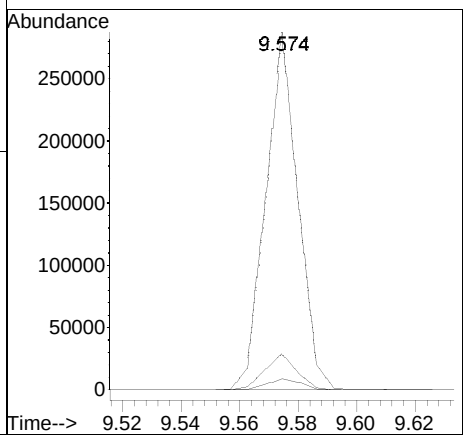


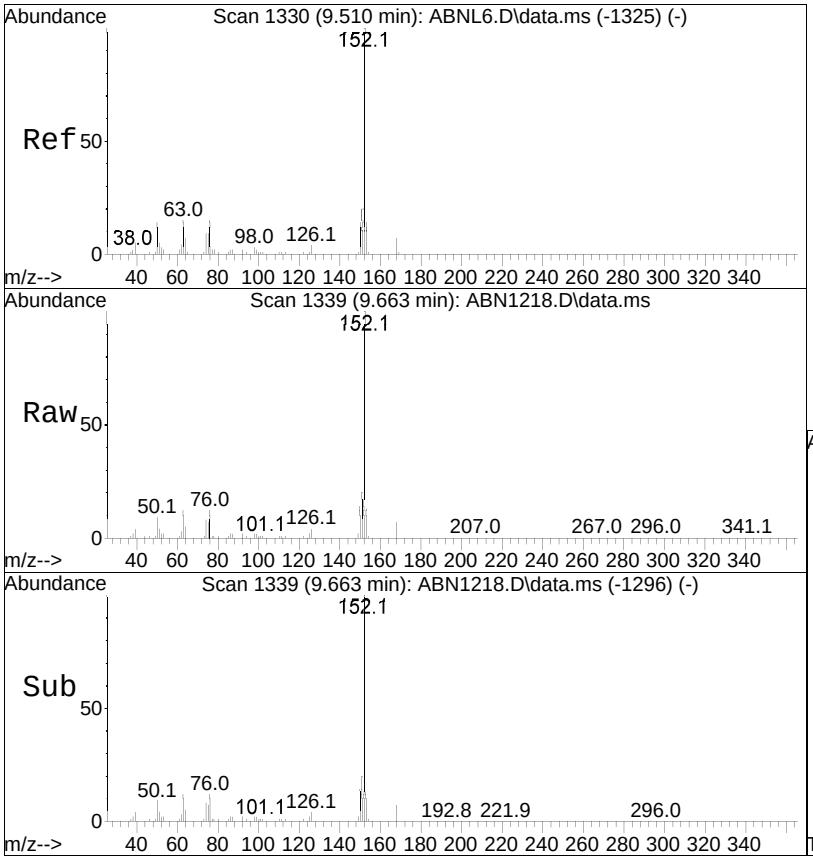


#51
Dimethyl phthalate
Concen: 5.17 ug/ml
RT: 9.574 min Scan# 1324
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:163 Resp: 216299

Ion	Ratio	Lower	Upper
163	100		
194	3.3	3.5	5.3#
164	10.0	7.9	11.9

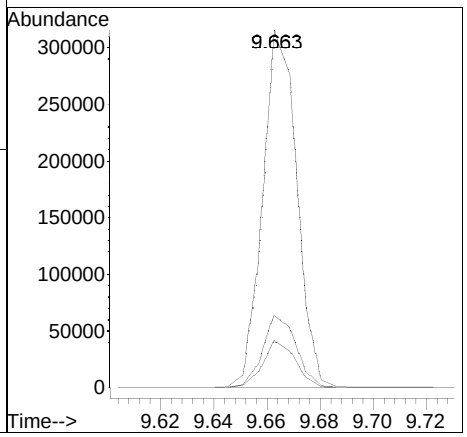


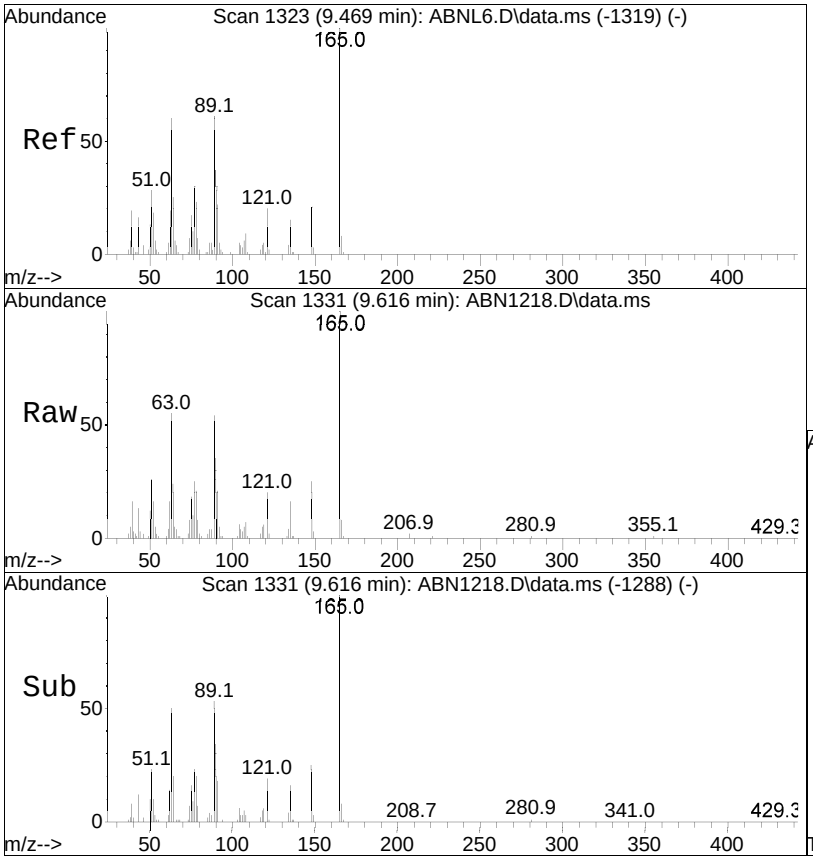


#52
Acenaphthylene
Concen: 5.19 ug/ml
RT: 9.663 min Scan# 1339
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:152 Resp: 277726

Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.8	23.6
153	12.6	10.5	15.7

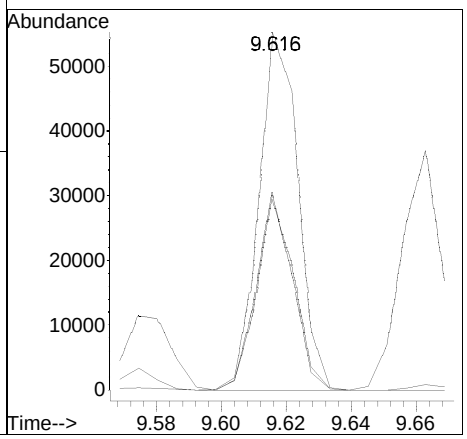


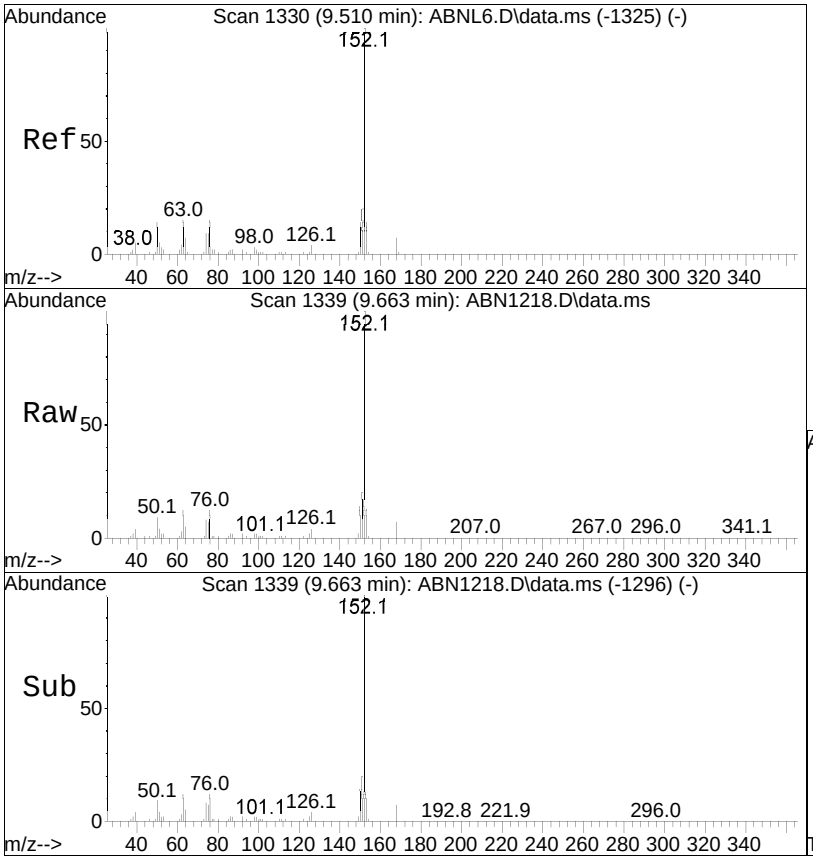


#53
2,6-Dinitrotoluene
Concen: 5.42 ug/ml
RT: 9.616 min Scan# 1331
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:165 Resp: 46130

Ion	Ratio	Lower	Upper
165	100		
89	51.0	54.2	81.2#
63	50.7	64.2	96.2#

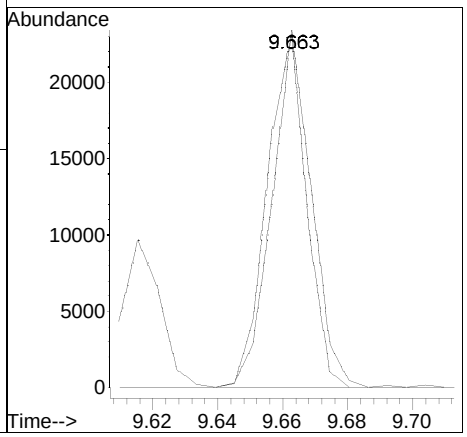


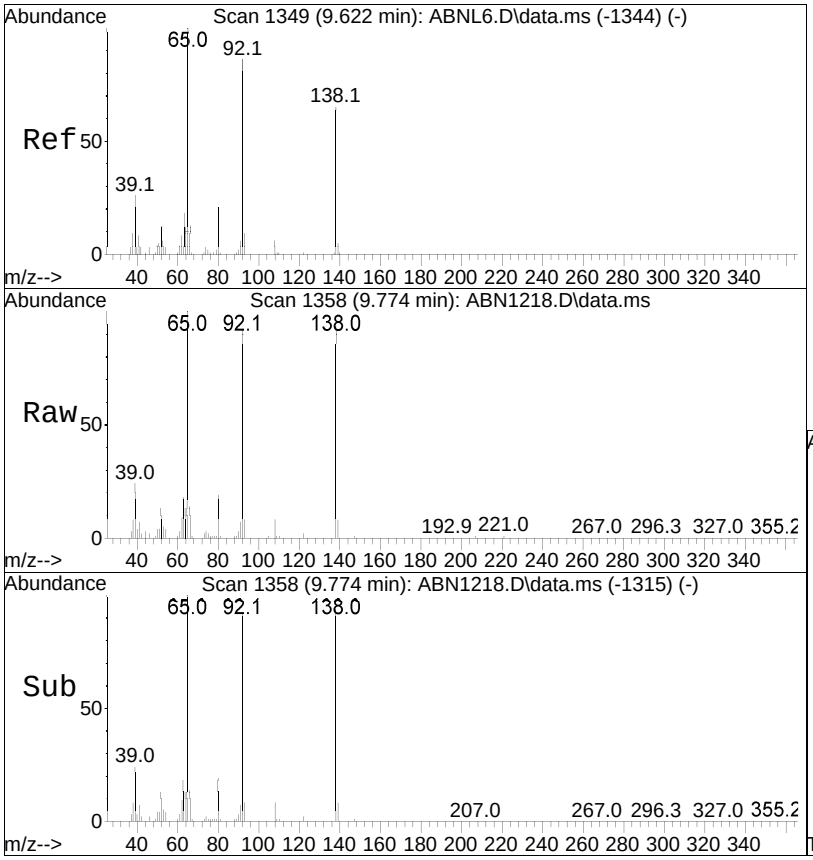


#54
1,2-Dinitrobenzene
Concen: 5.23 ug/ml
RT: 9.663 min Scan# 1339
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:168 Resp: 19310

Ion	Ratio	Lower	Upper
168	100		
75	101.3	30.9	46.3#

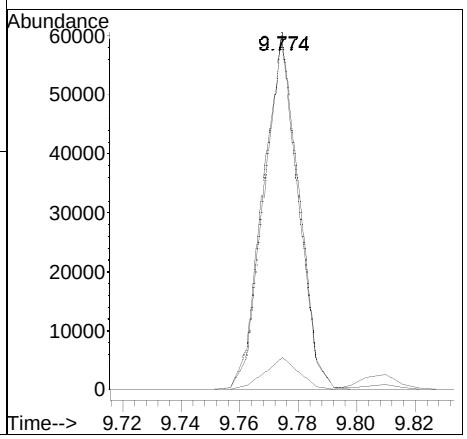


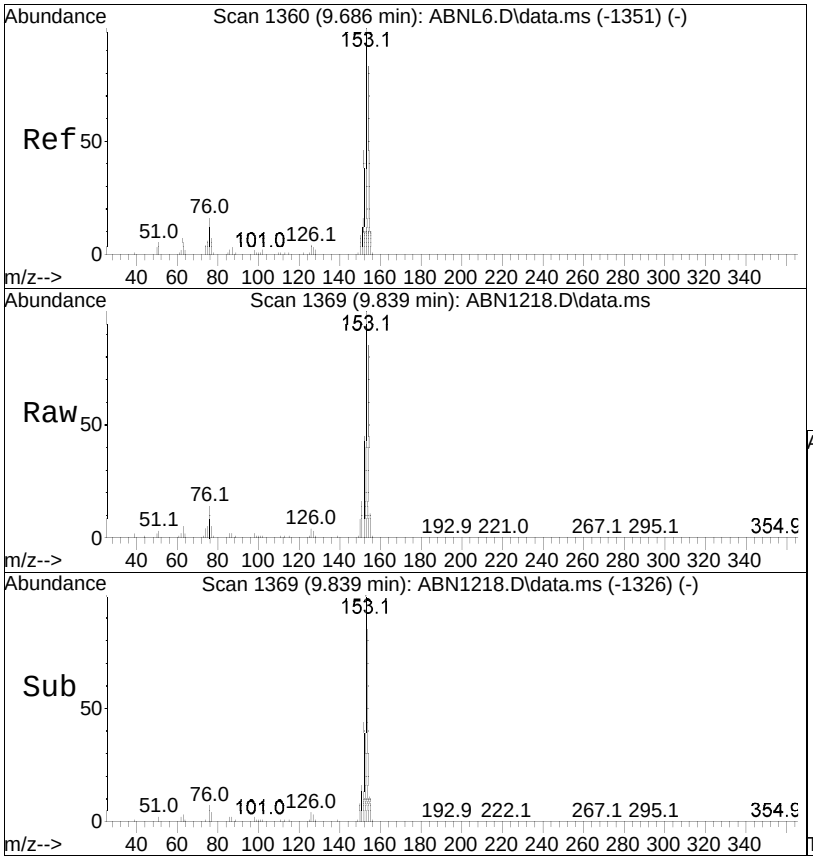


#64
3-Nitroaniline
Concen: 4.94 ug/ml
RT: 9.774 min Scan# 1358
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:138 Resp: 49042

Ion	Ratio	Lower	Upper
138	100		
92	100.5	93.4	140.2
108	8.9	9.5	14.3#

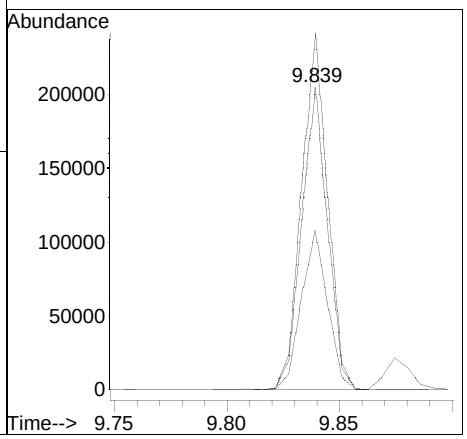


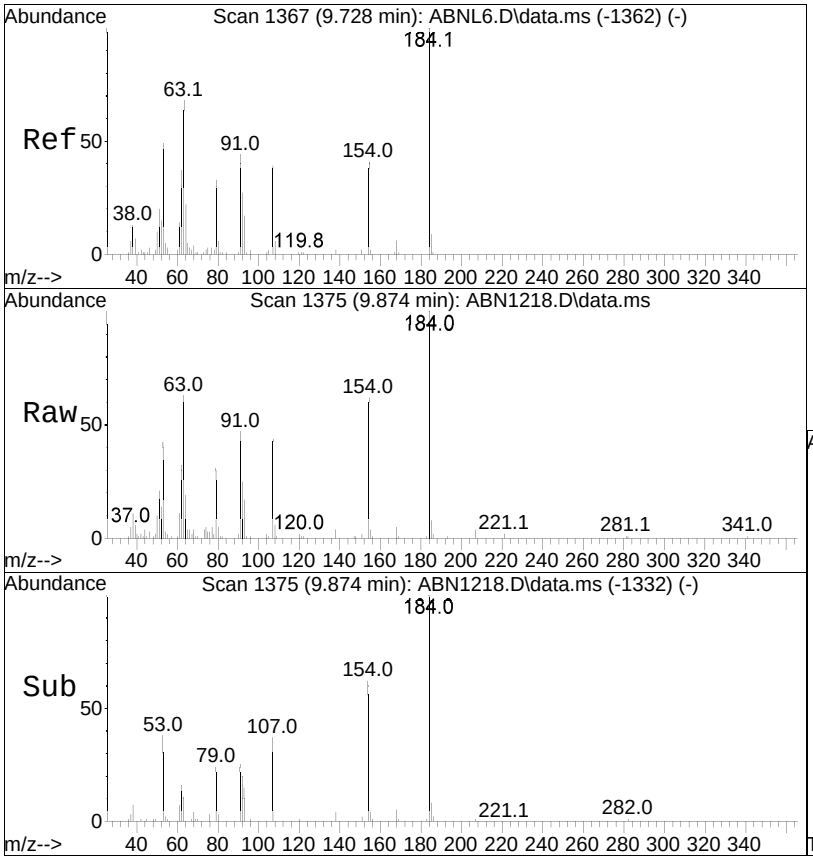


#65
Acenaphthene
Concen: 4.60 ug/ml
RT: 9.839 min Scan# 1369
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:154 Resp: 163623

Ion	Ratio	Lower	Upper
154	100		
153	118.3	85.3	127.9
152	53.7	41.4	62.0

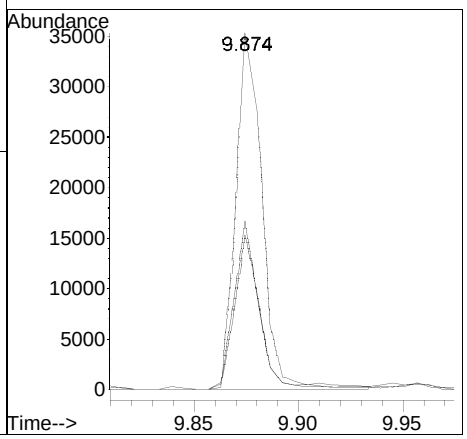


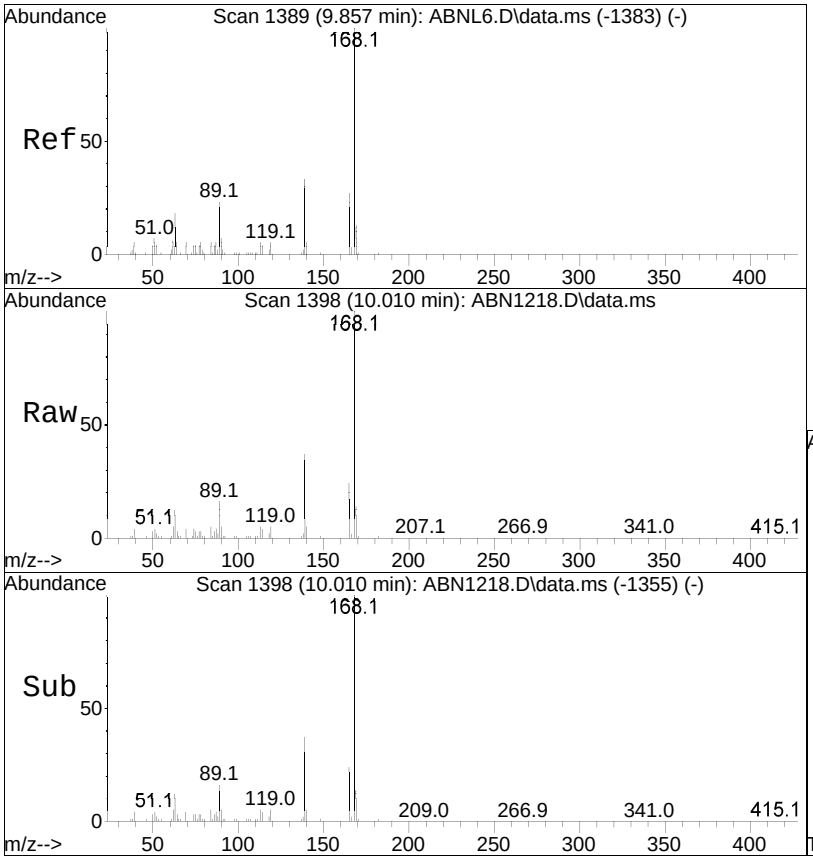


#66
2,4-Dinitrophenol
Concen: 5.11 ug/ml
RT: 9.874 min Scan# 1375
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:184 Resp: 30713

Ion	Ratio	Lower	Upper
184	100		
107	41.9	37.7	56.5
91	44.2	46.3	69.5#

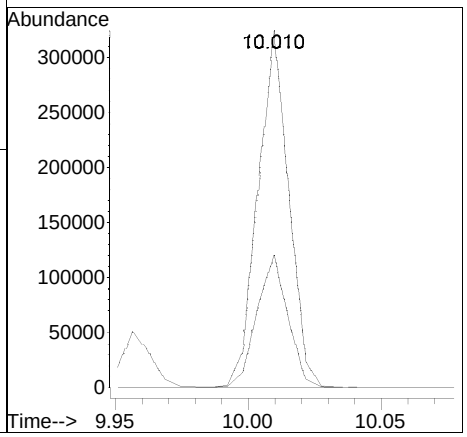


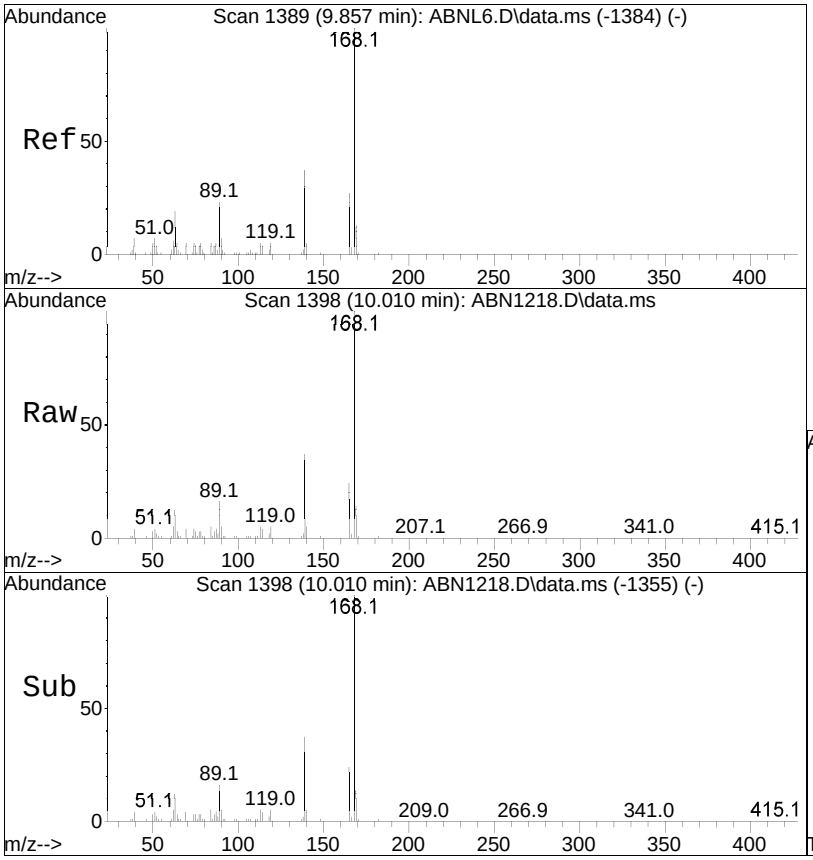


#67
Dibenzofuran
Concen: 4.49 ug/ml
RT: 10.010 min Scan# 1398
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:168 Resp: 258251

Ion	Ratio	Lower	Upper
168	100		
139	37.5	31.4	47.2

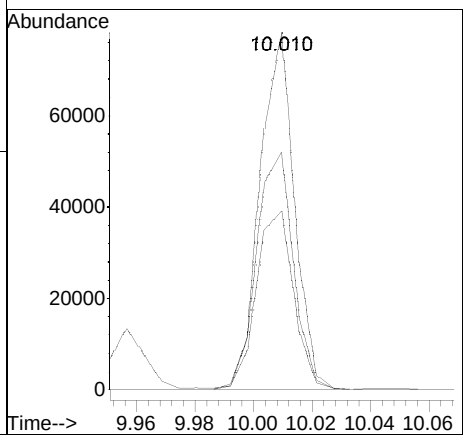


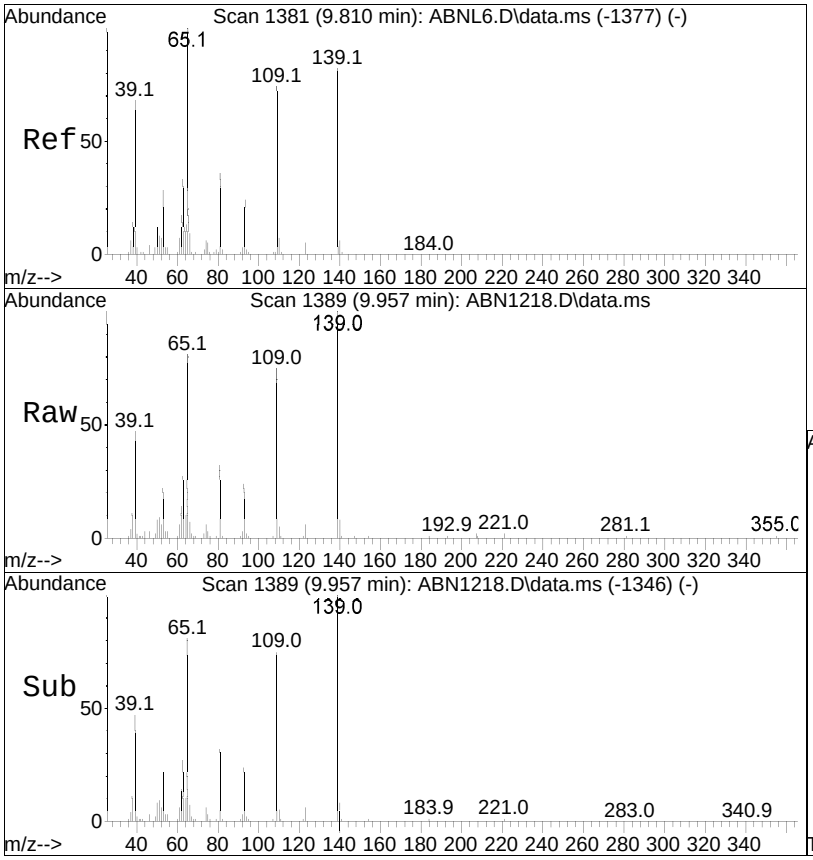


#68
2,4-Dinitrotoluene
Concen: 4.93 ug/ml
RT: 10.010 min Scan# 1398
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:165 Resp: 63506

Ion	Ratio	Lower	Upper
165	100		
89	70.8	72.0	108.0#
63	54.5	52.7	79.1

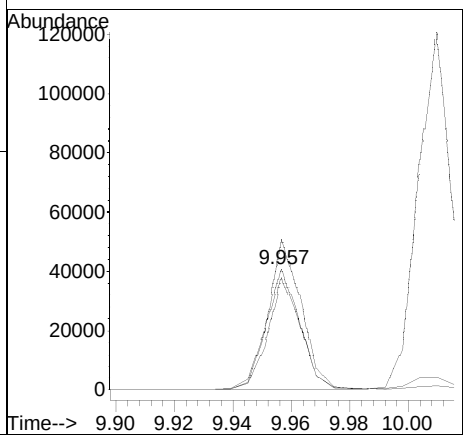


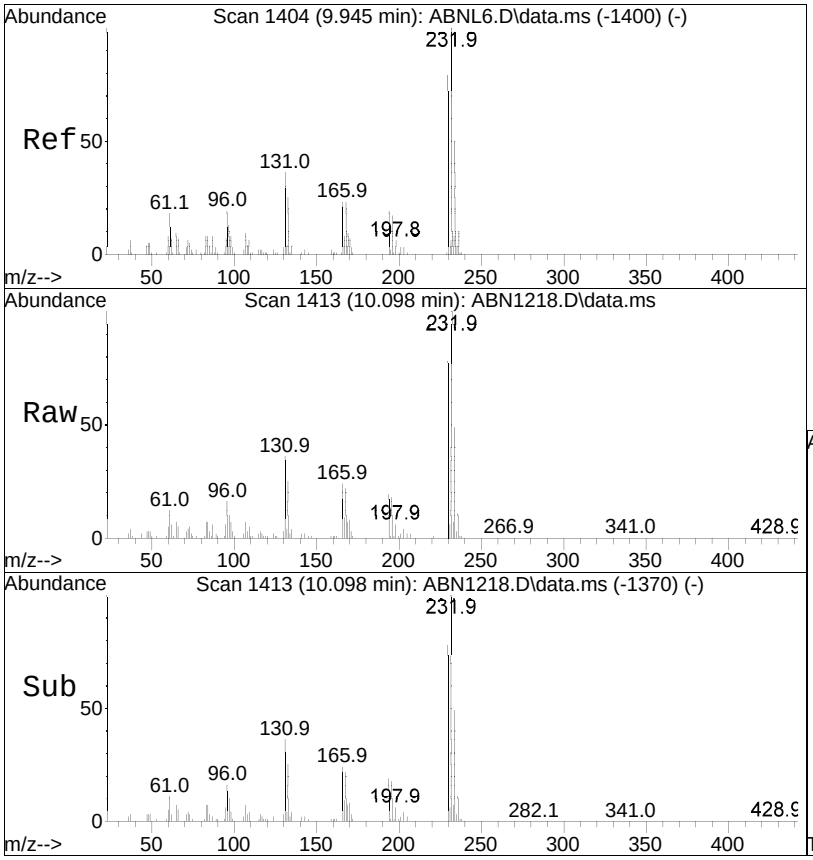


#69
4-Nitrophenol
Concen: 4.52 ug/ml
RT: 9.957 min Scan# 1389
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion: 65 Resp: 33188

Ion	Ratio	Lower	Upper
65	100		
109	88.6	47.4	71.2#
139	120.3	76.6	115.0#

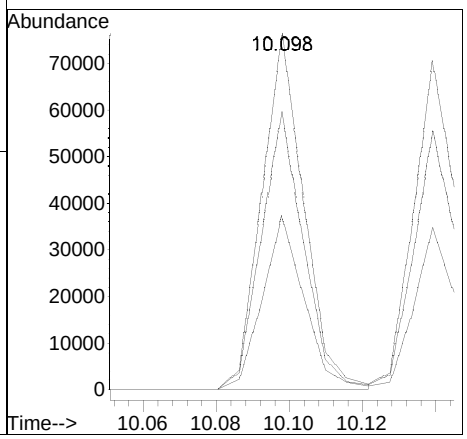


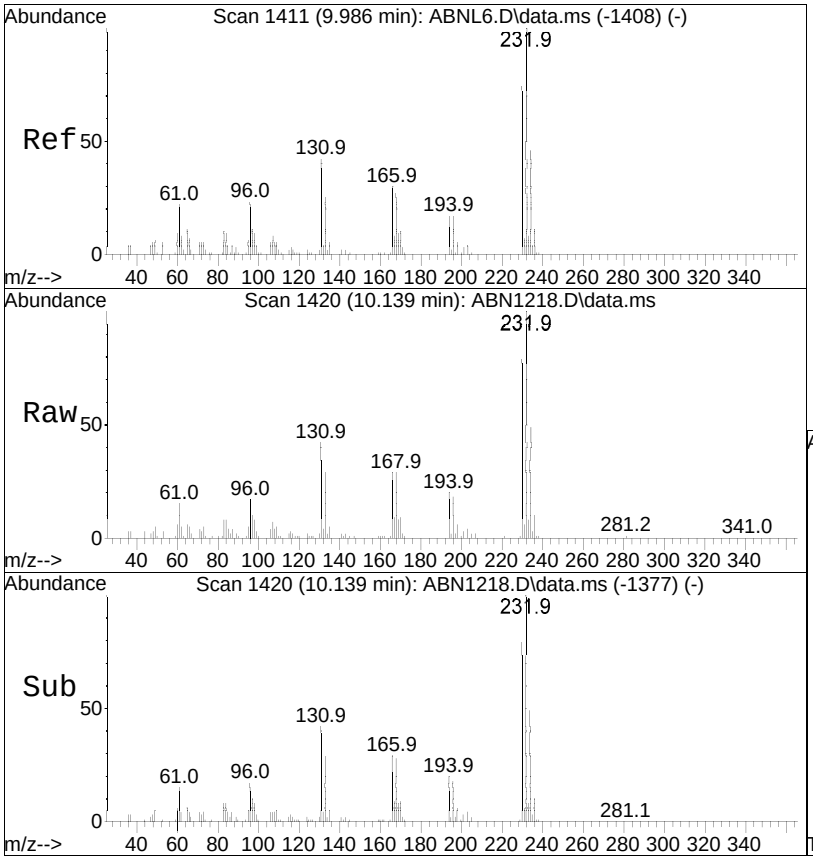


#70
2,3,5,6-Tetrachlorophenol
Concen: 5.09 ug/ml
RT: 10.098 min Scan# 1413
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:232 Resp: 61001

Ion	Ratio	Lower	Upper
232	100		
230	78.5	64.2	96.4
234	48.5	38.1	57.1

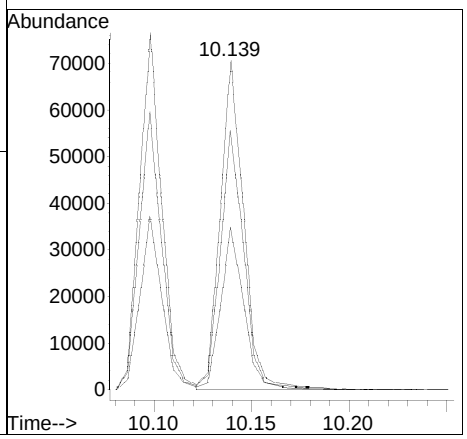


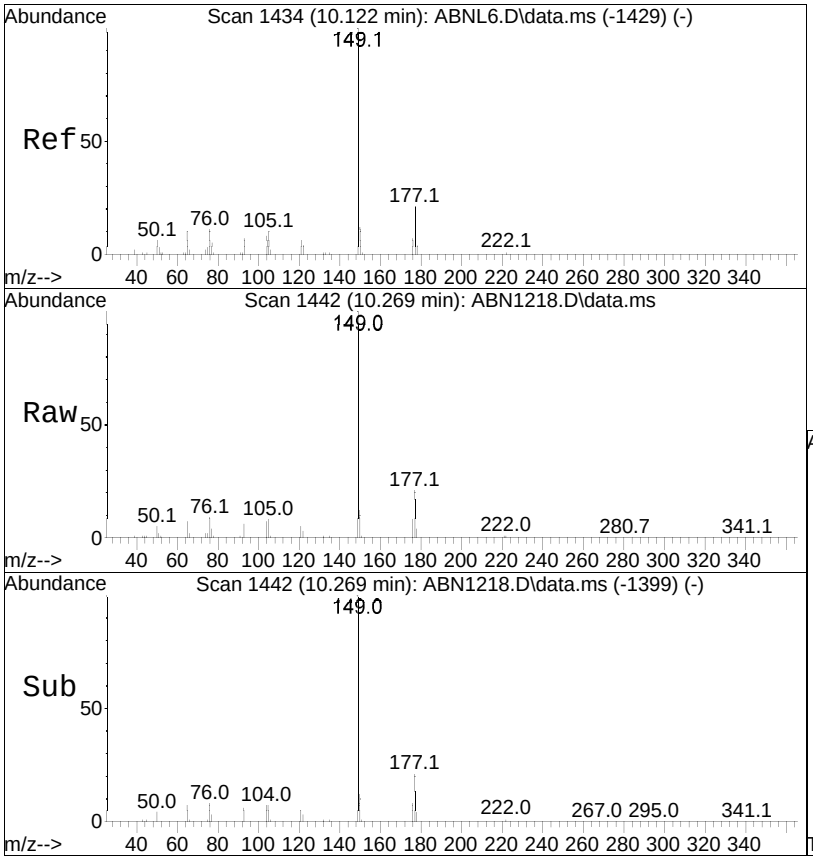


#71
2,3,4,6-Tetrachlorophenol
Concen: 5.04 ug/ml
RT: 10.139 min Scan# 1420
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:232 Resp: 59617

Ion	Ratio	Lower	Upper
232	100		
230	77.6	61.8	92.8
234	48.7	36.2	54.2

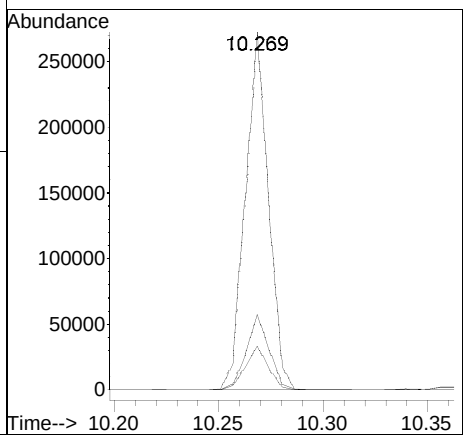


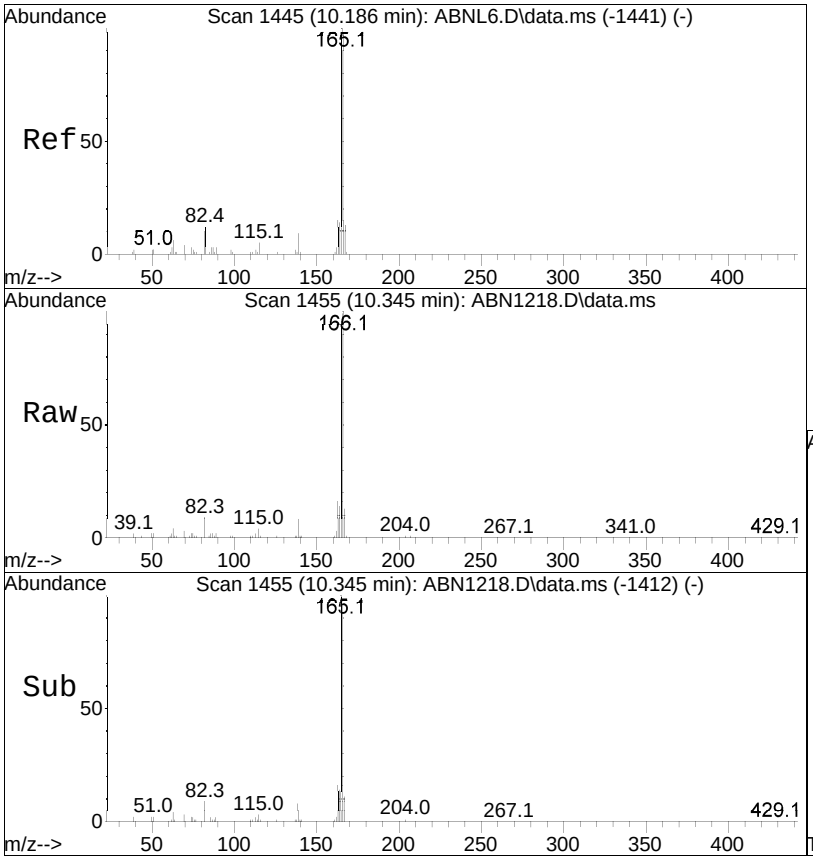


#72
Diethyl phthalate
Concen: 4.42 ug/ml
RT: 10.269 min Scan# 1442
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:149 Resp: 206004

Ion	Ratio	Lower	Upper
149	100		
177	21.0	16.1	24.1
150	12.3	9.4	14.2

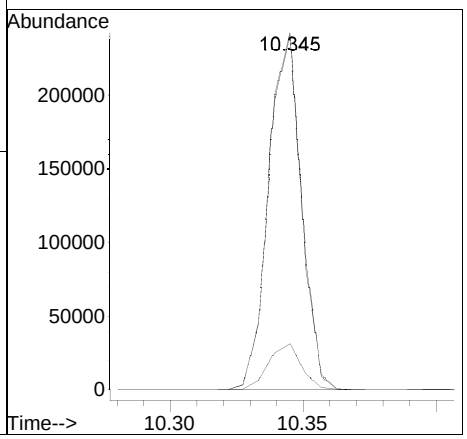


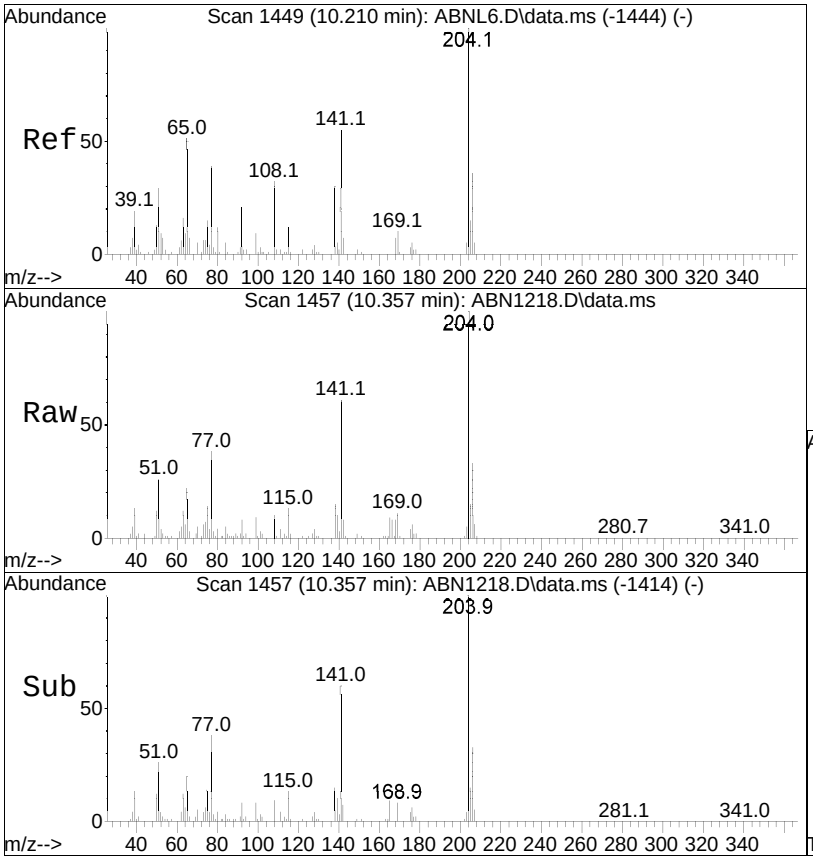


#73
Fluorene
Concen: 4.64 ug/ml
RT: 10.345 min Scan# 1455
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:166 Resp: 208495

Ion	Ratio	Lower	Upper
166	100		
165	98.5	76.2	114.2
167	13.1	10.6	15.8

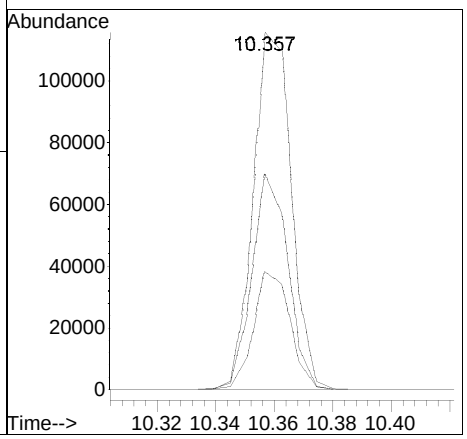


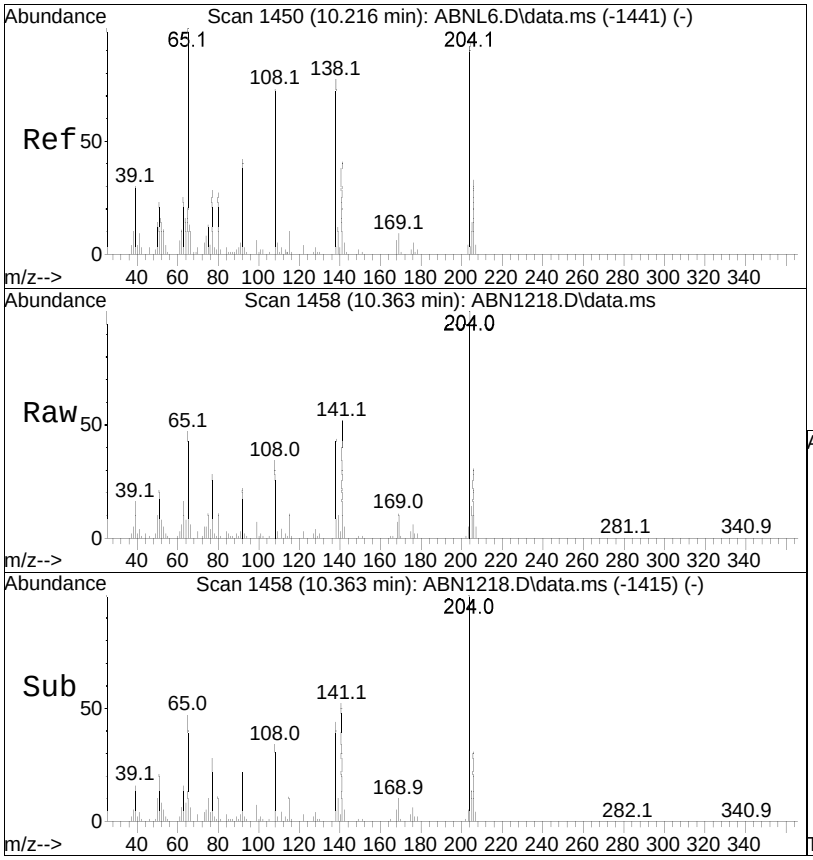


#74
4-Chlorophenyl phenyl ether
Concen: 4.51 ug/ml
RT: 10.357 min Scan# 1457
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:204 Resp: 103982

Ion	Ratio	Lower	Upper
204	100		
206	31.9	25.8	38.6
141	57.3	53.6	80.4

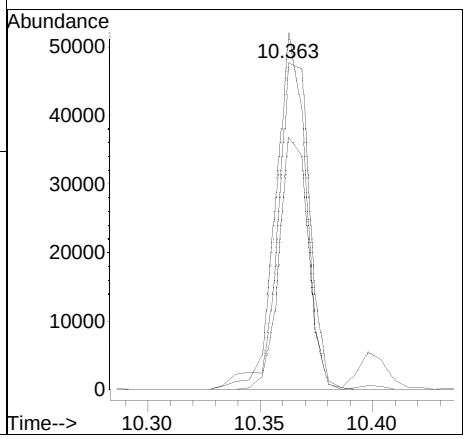


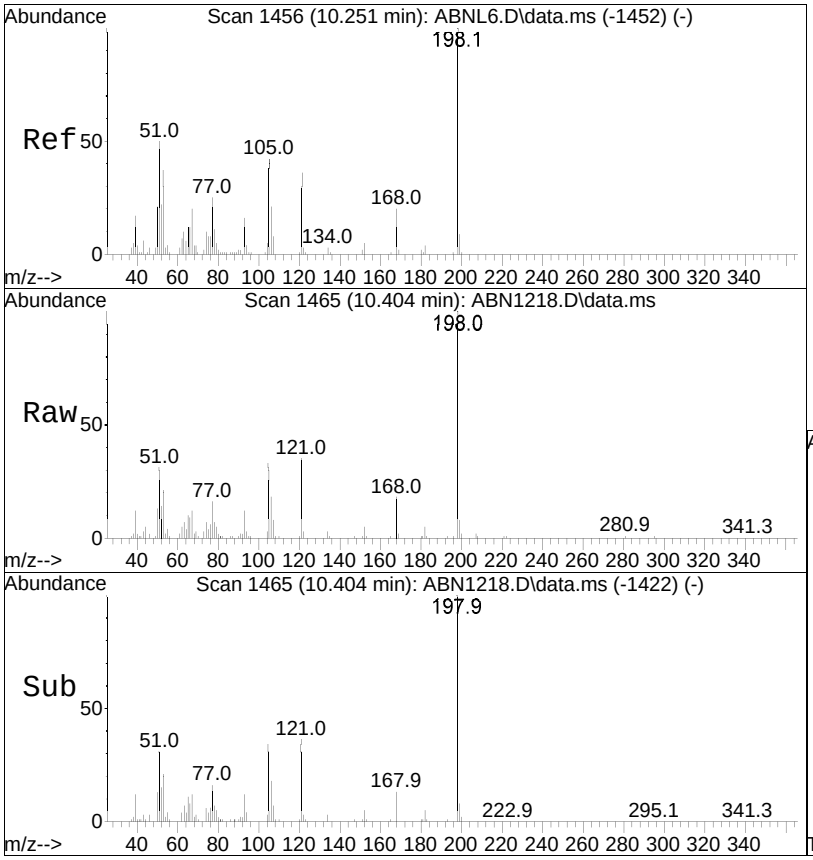


#75
4-Nitroaniline
Concen: 4.67 ug/ml
RT: 10.363 min Scan# 1458
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:138 Resp: 47184

Ion	Ratio	Lower	Upper
138	100		
108	70.3	52.1	78.1
65	101.4	115.0	172.6#

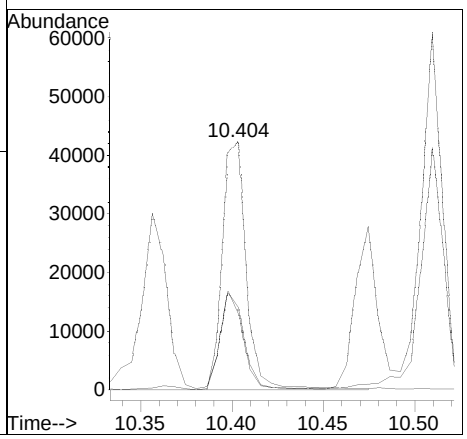


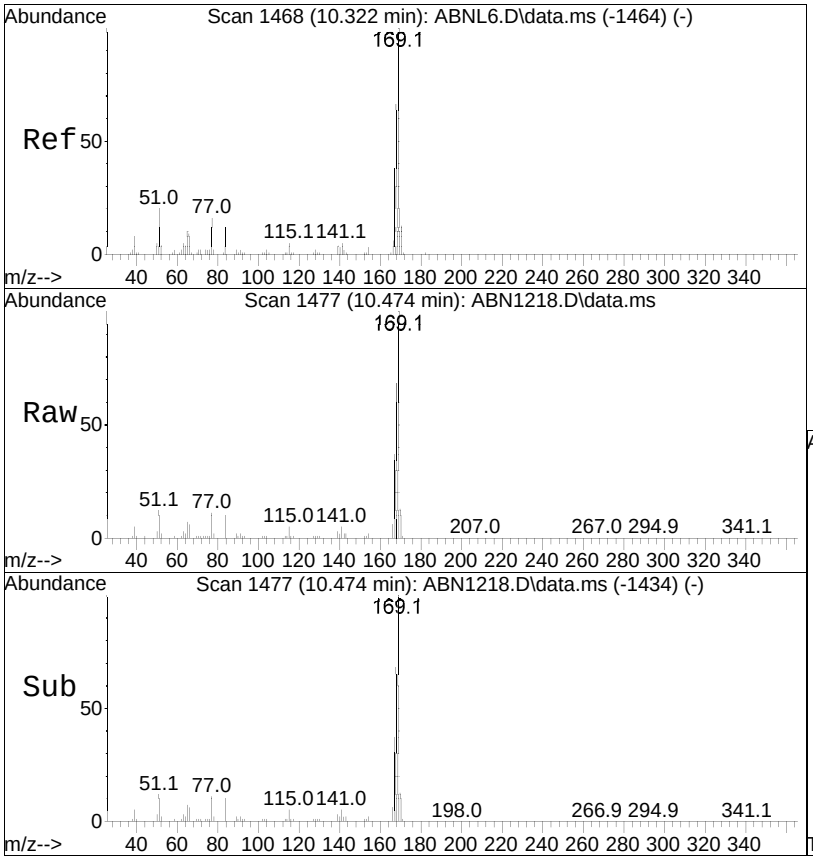


#76
4,6-Dinitro-o-cresol
Concen: 4.50 ug/ml
RT: 10.404 min Scan# 1465
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:198 Resp: 38936

Ion	Ratio	Lower	Upper
198	100		
51	38.4	76.0	114.0#
105	39.0	45.6	68.4#

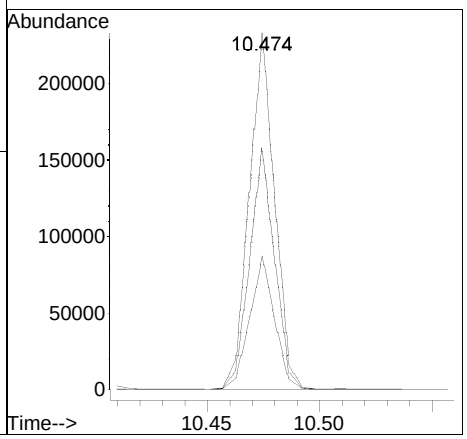


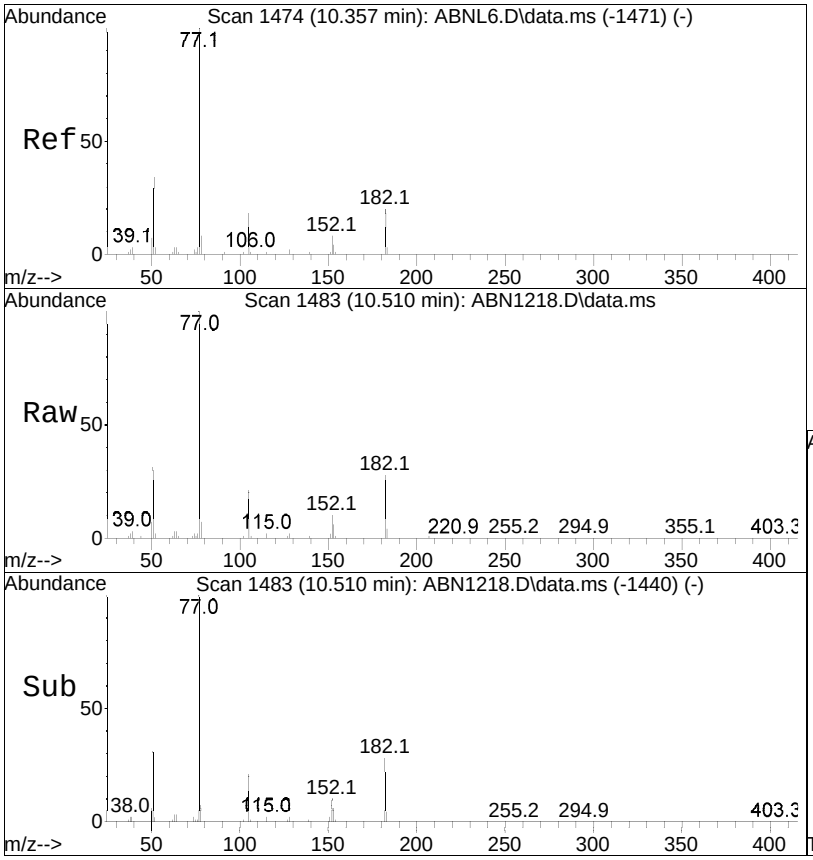


#77
NDPA/DPA
Concen: 4.69 ug/ml
RT: 10.474 min Scan# 1477
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:169 Resp: 181681

Ion	Ratio	Lower	Upper
169	100		
168	66.9	54.0	81.0
167	36.8	28.6	42.8

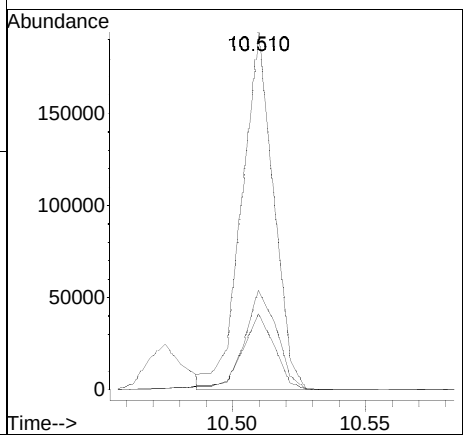


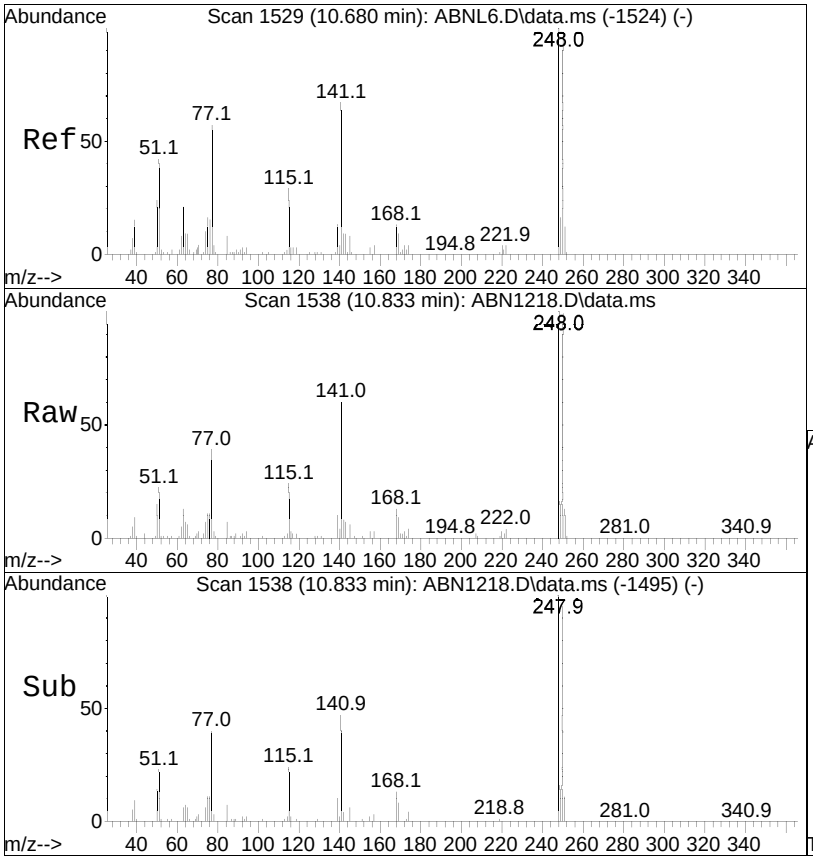


#78
Azobenzene
Concen: 4.23 ug/ml
RT: 10.510 min Scan# 1483
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion: 77 Resp: 160042

Ion	Ratio	Lower	Upper
77	100		
182	29.8	17.4	26.2#
105	23.2	15.4	23.2#

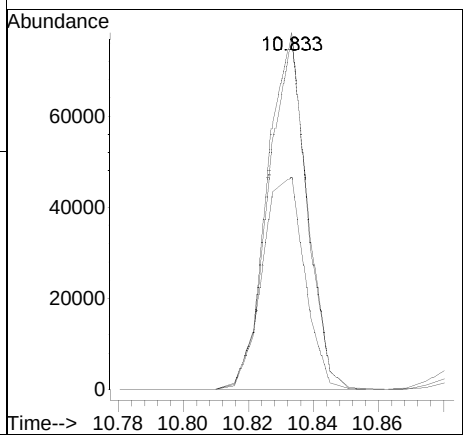


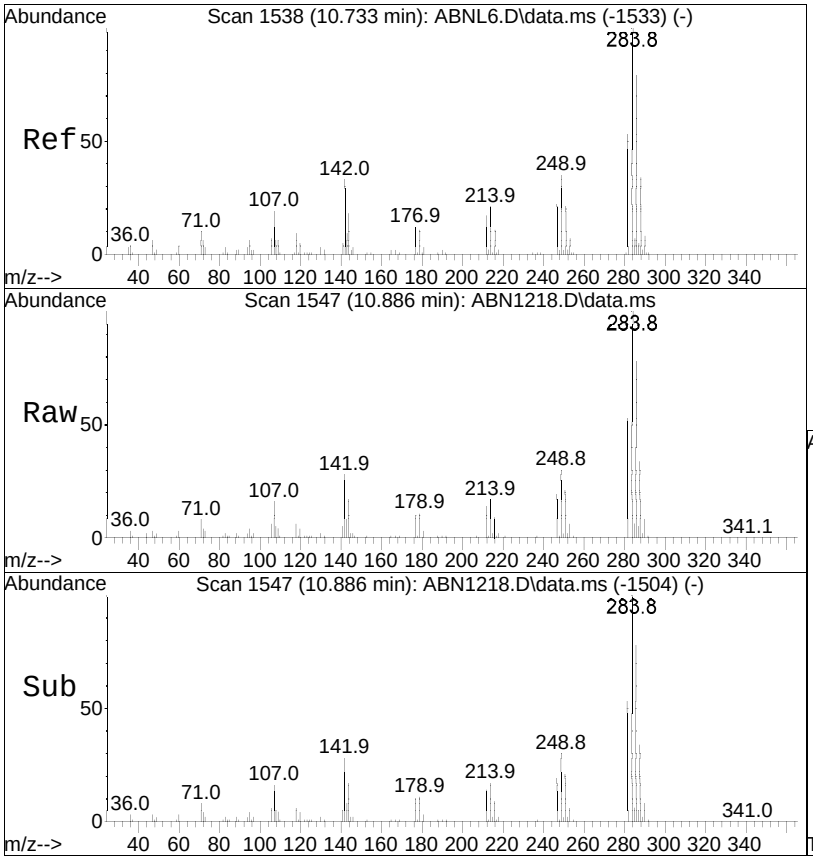


#80
4-Bromophenyl phenyl ether
Concen: 4.59 ug/ml
RT: 10.833 min Scan# 1538
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:248 Resp: 65547

Ion	Ratio	Lower	Upper
248	100		
141	65.0	76.6	114.8#
250	97.1	77.3	115.9

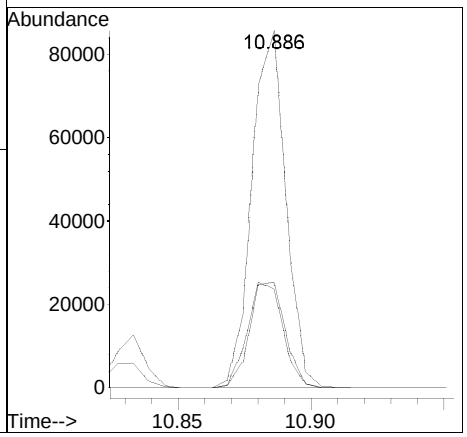


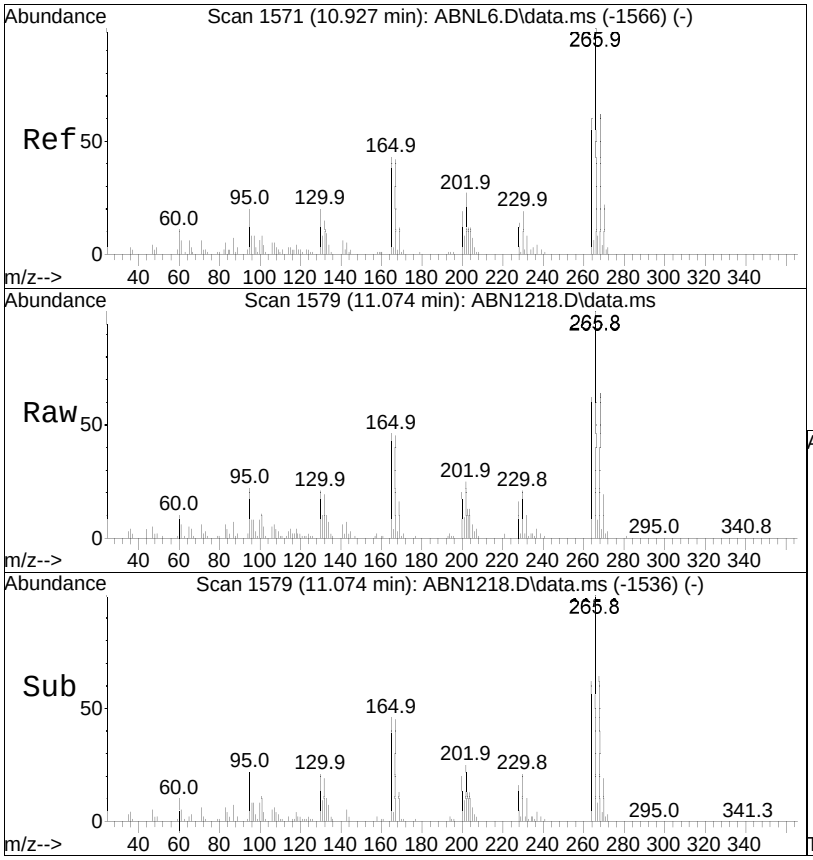


#81
Hexachlorobenzene
Concen: 4.69 ug/ml
RT: 10.886 min Scan# 1547
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:284 Resp: 75792

Ion	Ratio	Lower	Upper
284	100		
142	31.1	41.9	62.9#
249	31.2	24.1	36.1

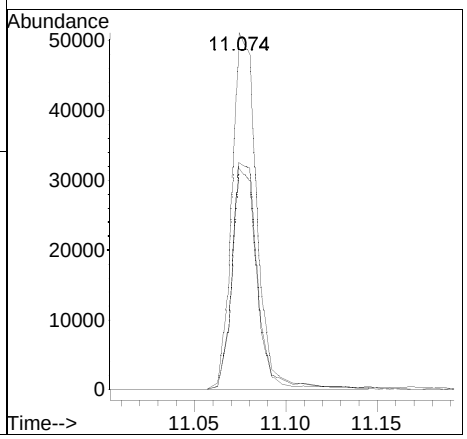


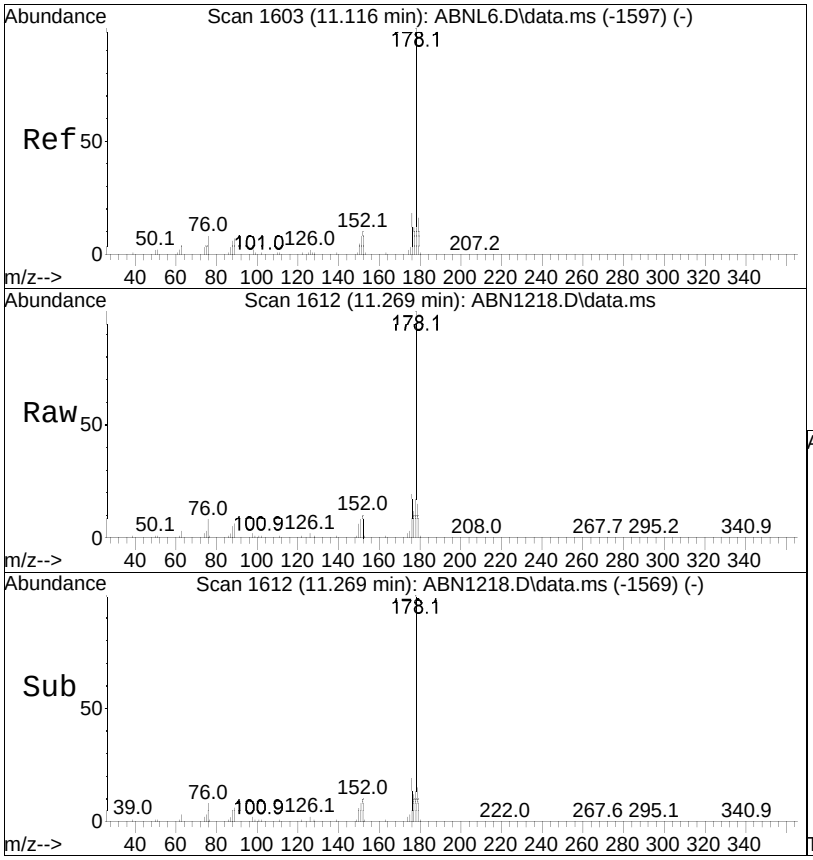


#82
Pentachlorophenol
Concen: 4.95 ug/ml
RT: 11.074 min Scan# 1579
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:266 Resp: 48426

Ion	Ratio	Lower	Upper
266	100		
264	61.3	49.7	74.5
268	66.0	50.5	75.7

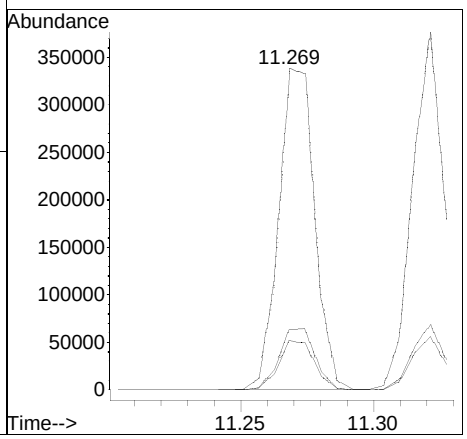


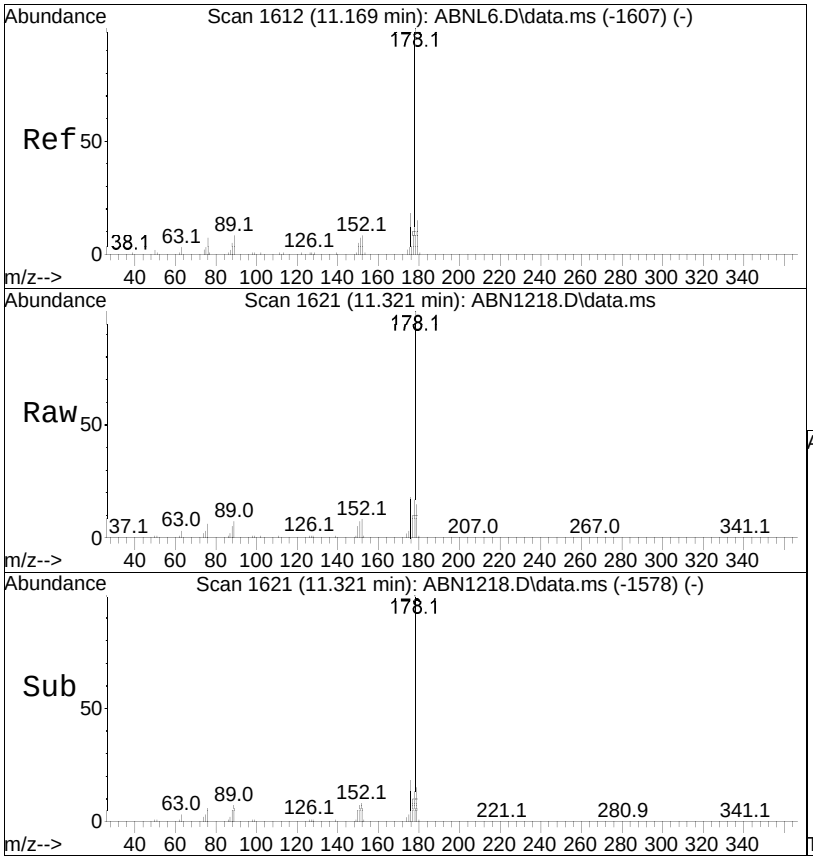


#89
Phenanthrene
Concen: 4.71 ug/ml
RT: 11.269 min Scan# 1612
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:178 Resp: 317167

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.2	18.2
176	19.1	15.4	23.2

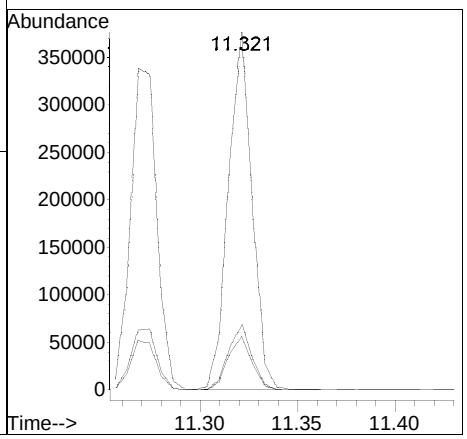


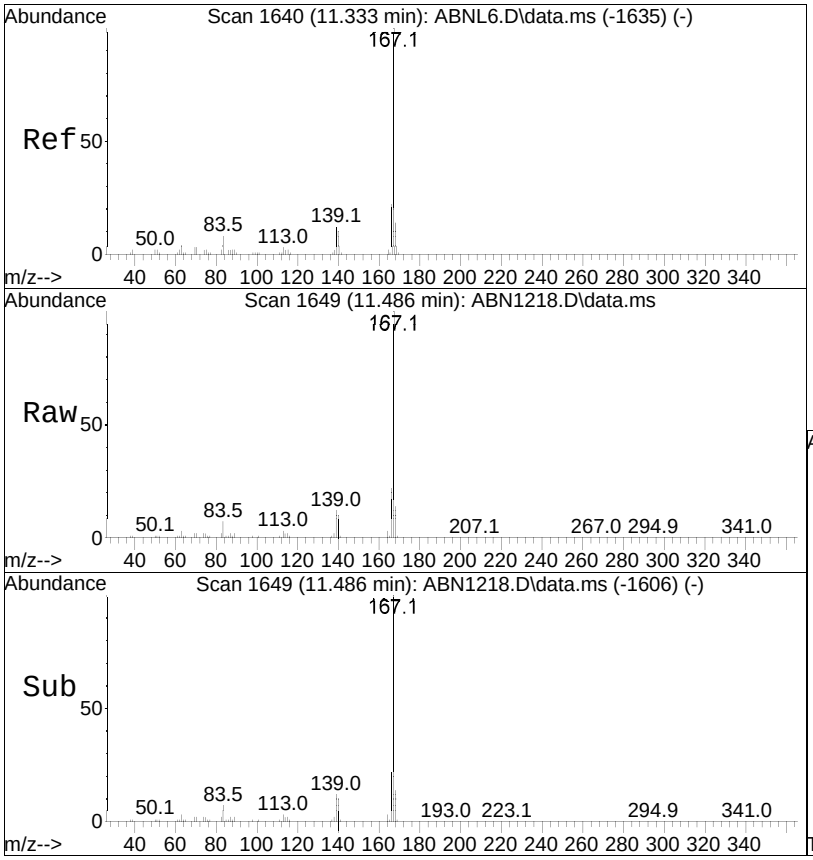


#90
Anthracene
Concen: 4.72 ug/ml
RT: 11.321 min Scan# 1621
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:178 Resp: 316864

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.0	18.0
176	18.3	14.6	22.0

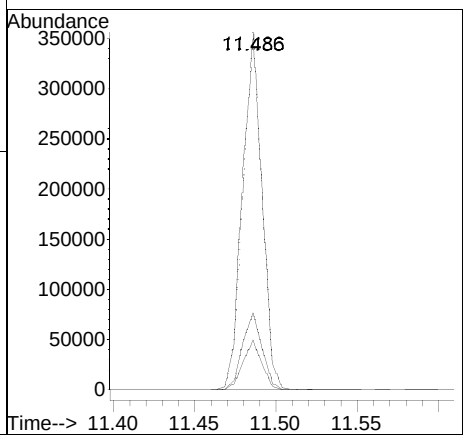


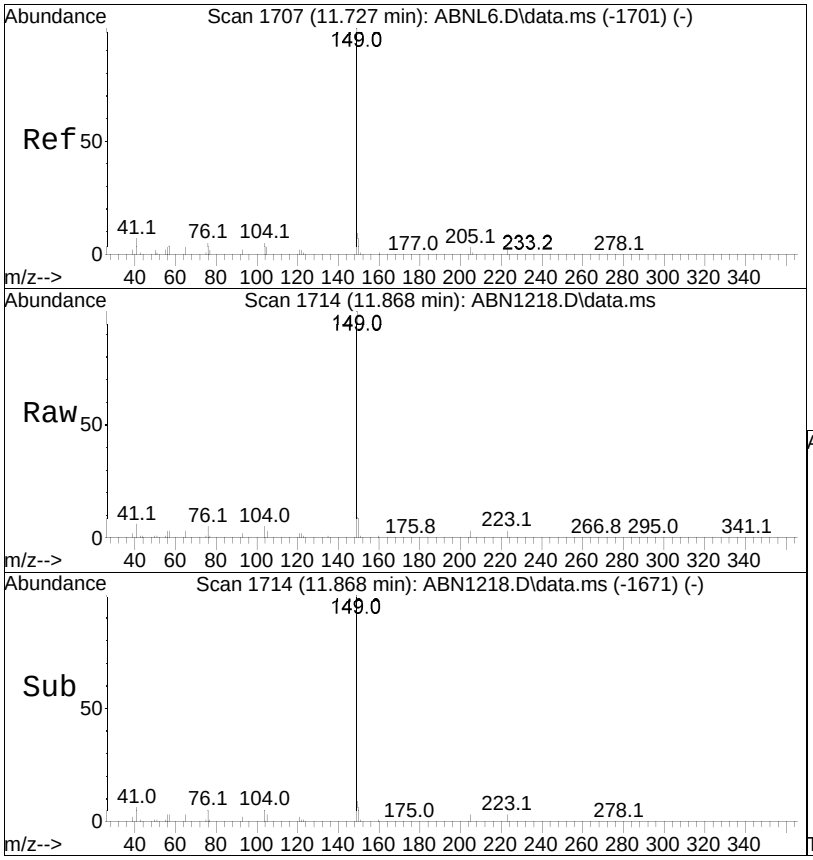


#91
Carbazole
Concen: 4.85 ug/ml
RT: 11.486 min Scan# 1649
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:167 Resp: 293213

Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.6	15.8
166	22.0	17.4	26.0

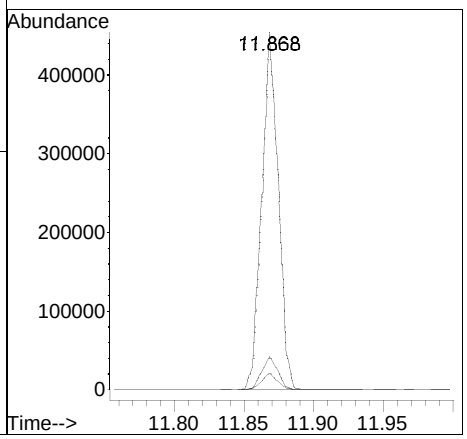


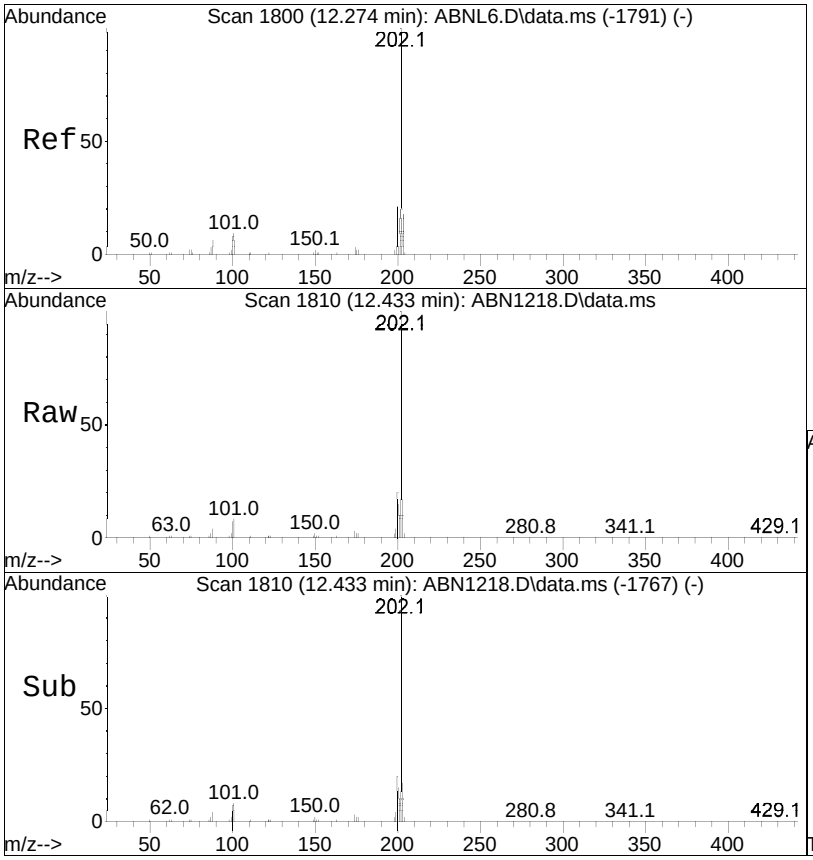


#92
Di-n-butylphthalate
Concen: 4.80 ug/ml
RT: 11.868 min Scan# 1714
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:149 Resp: 363714

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.0	10.6
104	4.6	4.5	6.7

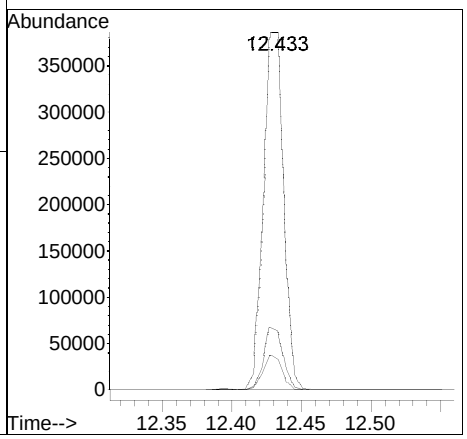


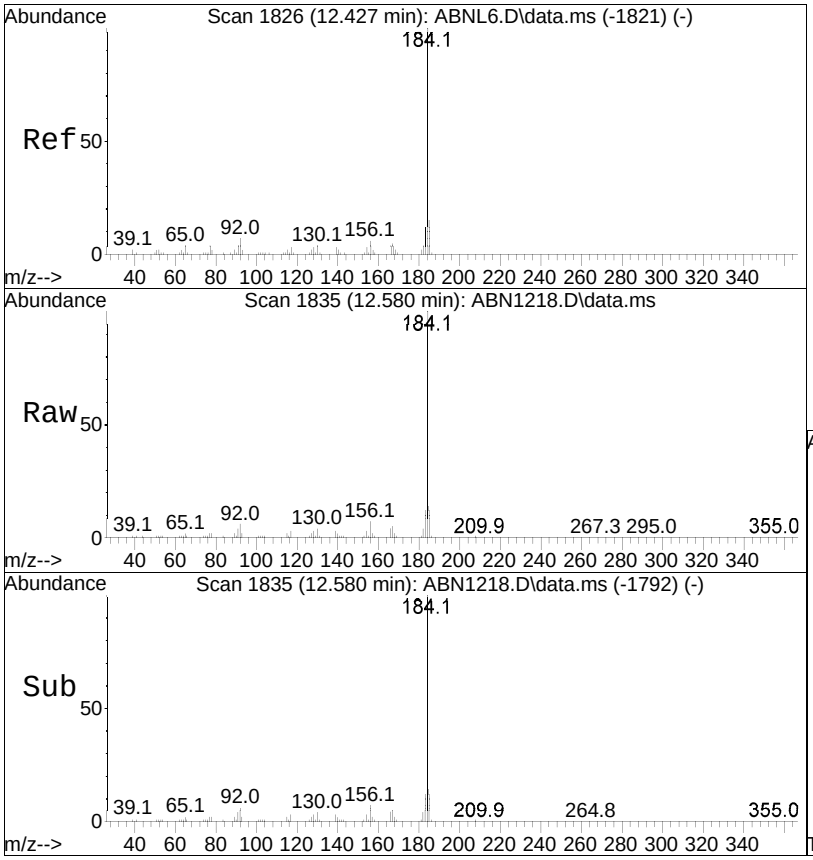


#93
Fluoranthene
Concen: 4.93 ug/ml
RT: 12.433 min Scan# 1810
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:202 Resp: 382874

Ion	Ratio	Lower	Upper
202	100		
101	9.3	13.5	20.3#
203	16.9	13.6	20.4

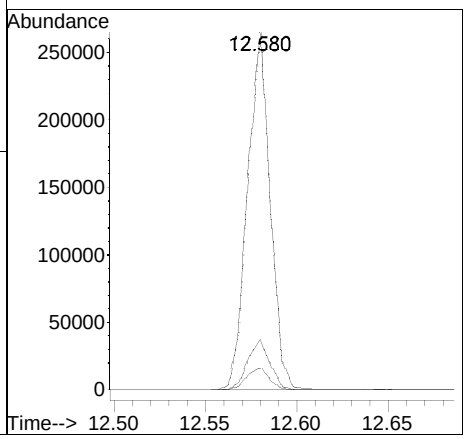


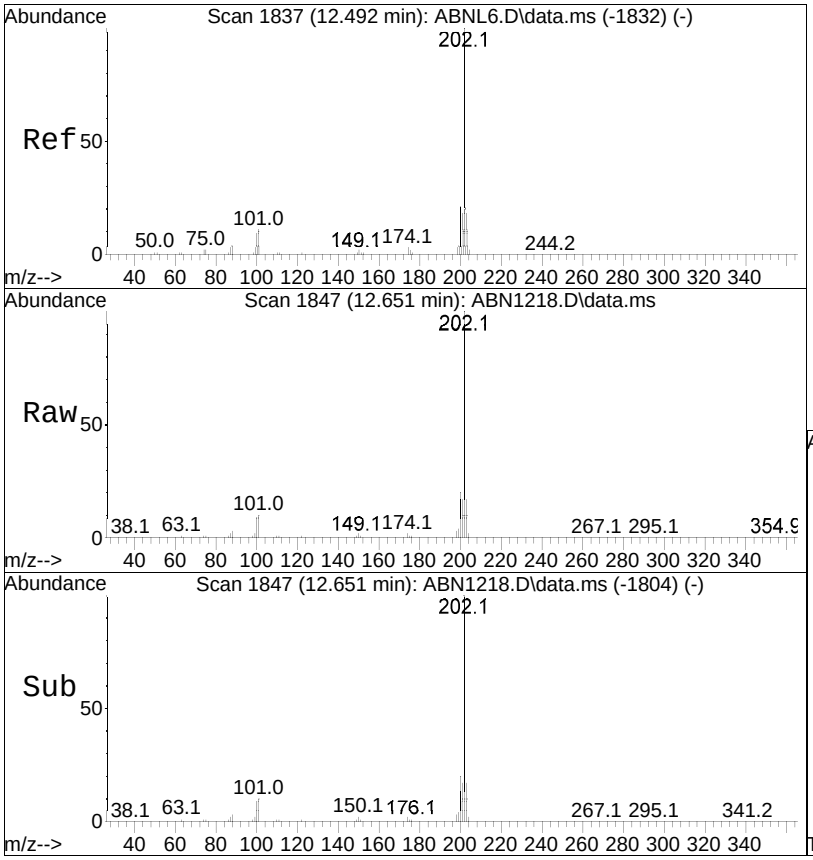


#94
Benzidine
Concen: 5.06 ug/ml
RT: 12.580 min Scan# 1835
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:184 Resp: 225115

Ion	Ratio	Lower	Upper
184	100		
92	6.4	9.1	13.7#
185	14.0	11.1	16.7

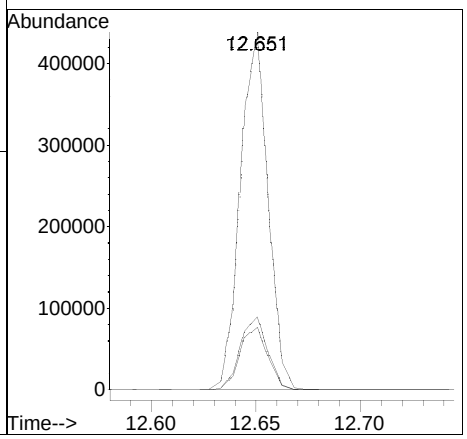


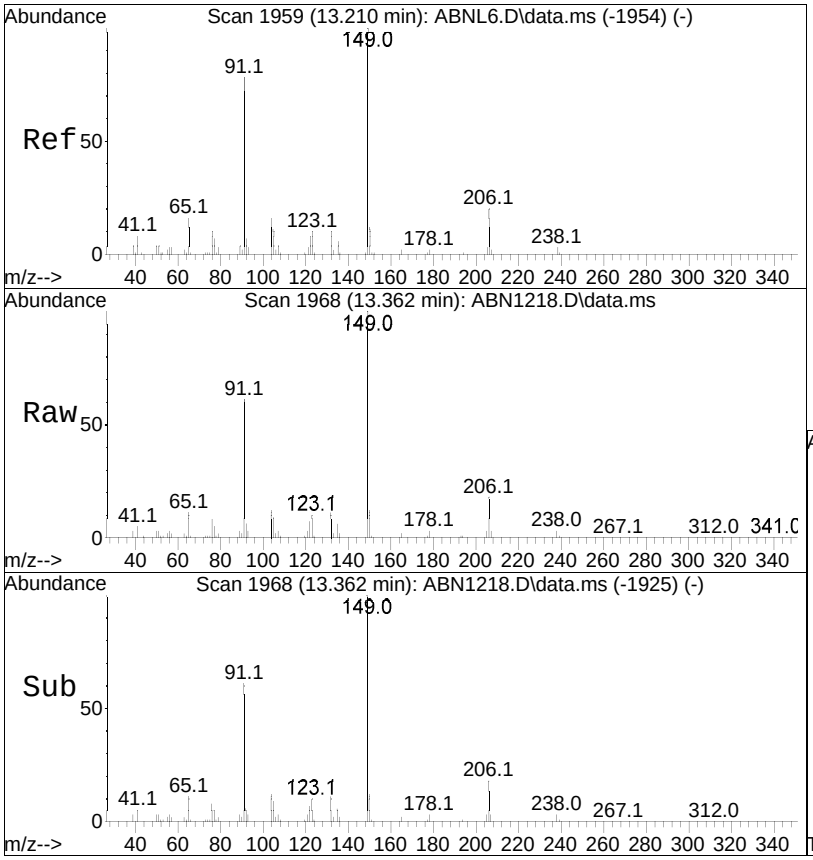


#95
Pyrene
Concen: 4.88 ug/ml
RT: 12.651 min Scan# 1847
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:202 Resp: 399865

Ion	Ratio	Lower	Upper
202	100		
200	20.5	16.7	25.1
203	17.8	14.2	21.4

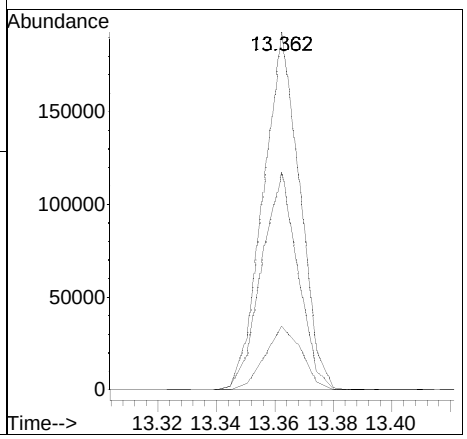


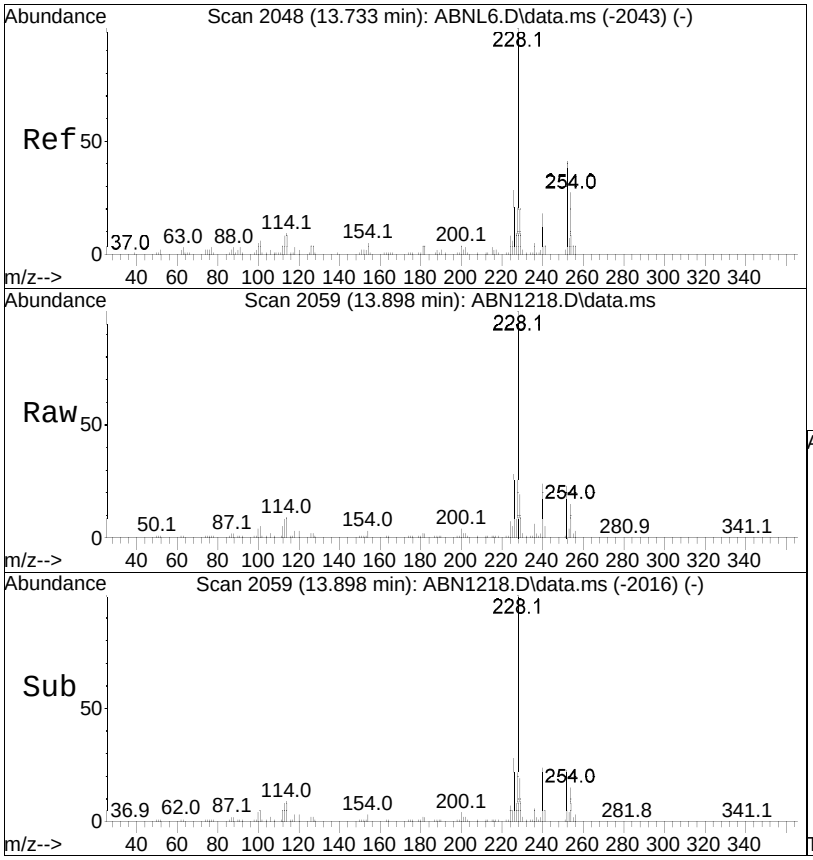


#97
Butyl benzyl phthalate
Concen: 5.22 ug/ml
RT: 13.362 min Scan# 1968
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:149 Resp: 166081

Ion	Ratio	Lower	Upper
149	100		
91	61.2	63.3	94.9#
206	18.0	13.9	20.9

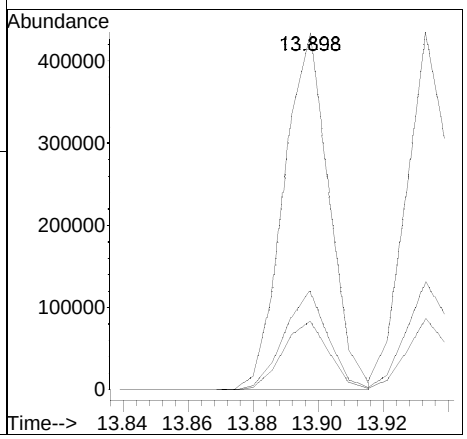


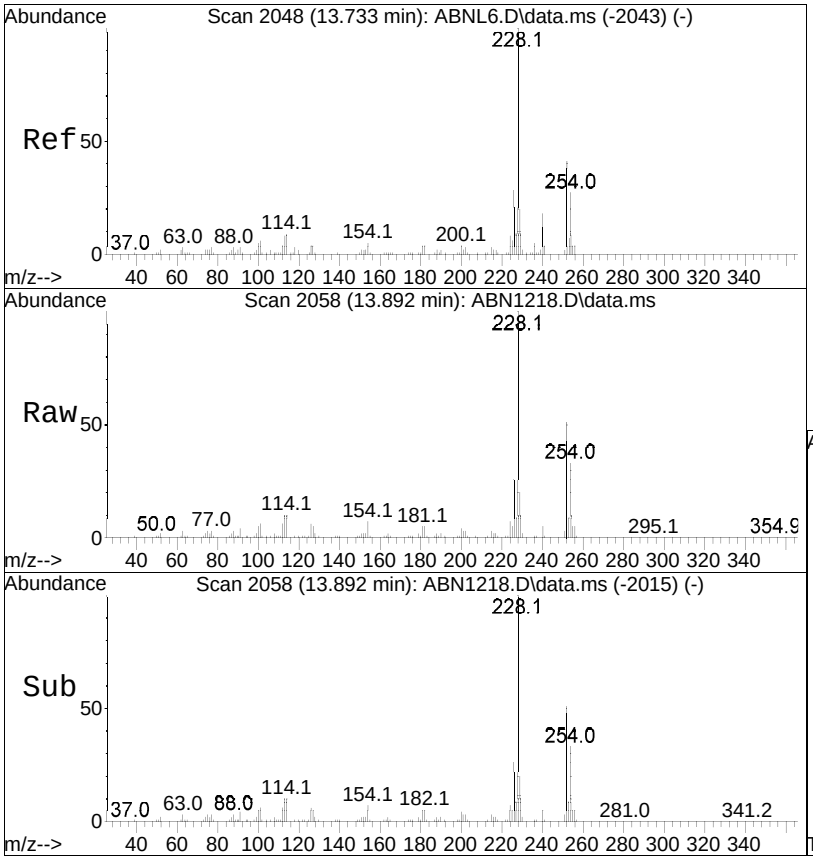


#105
Benzo(a)anthracene
Concen: 4.62 ug/ml
RT: 13.898 min Scan# 2059
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:228 Resp: 421080

Ion	Ratio	Lower	Upper
228	100		
226	27.1	22.2	33.4
229	19.6	15.6	23.4

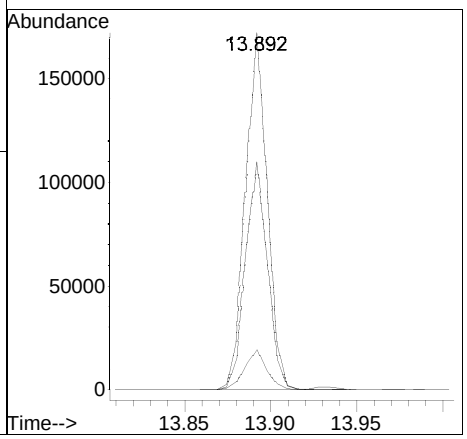


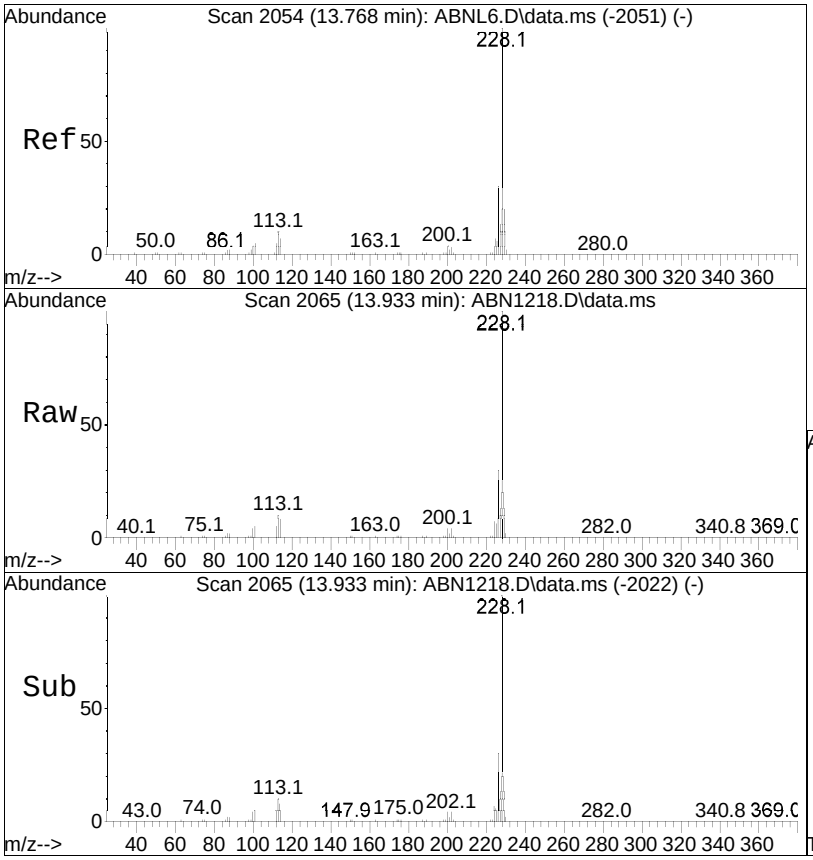


#106
3,3'-Dichlorobenzidine
Concen: 5.03 ug/ml
RT: 13.892 min Scan# 2058
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:252 Resp: 150767

Ion	Ratio	Lower	Upper
252	100		
126	11.6	14.5	21.7#
254	64.6	51.2	76.8

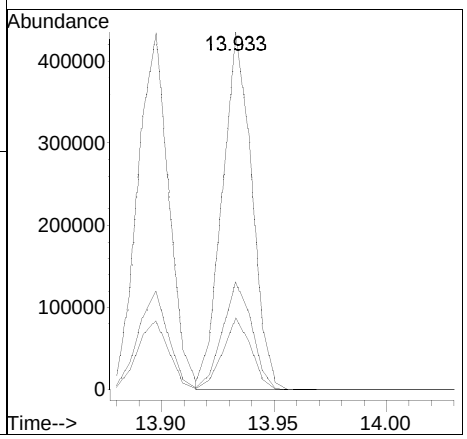


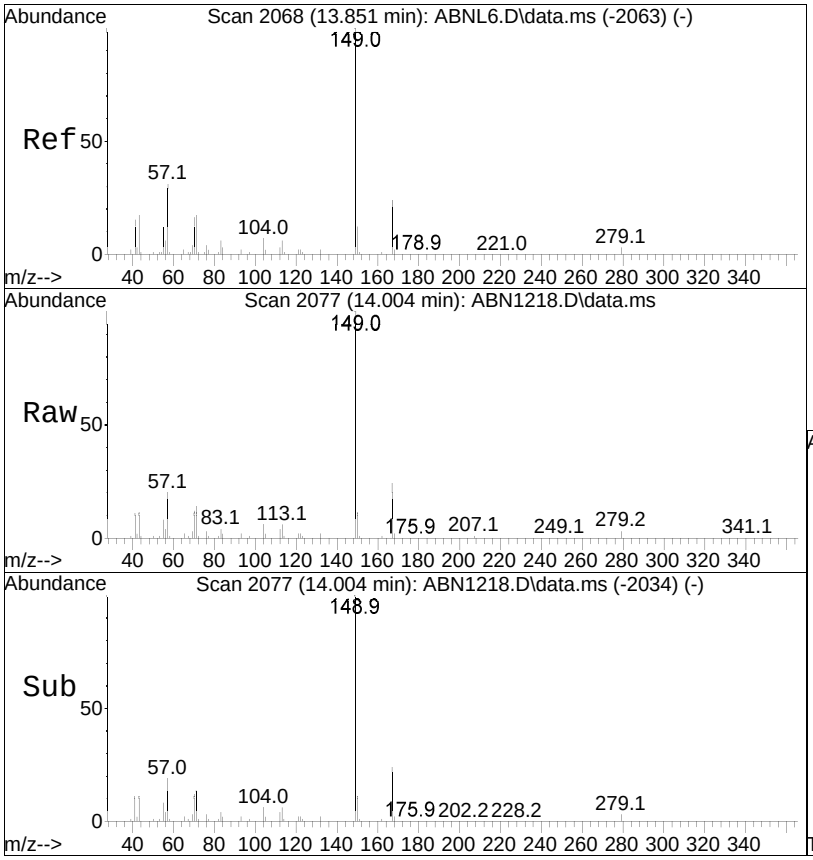


#107
Chrysene
Concen: 4.54 ug/ml
RT: 13.933 min Scan# 2065
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:228 Resp: 397583

Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.0	36.0
229	19.3	15.8	23.8

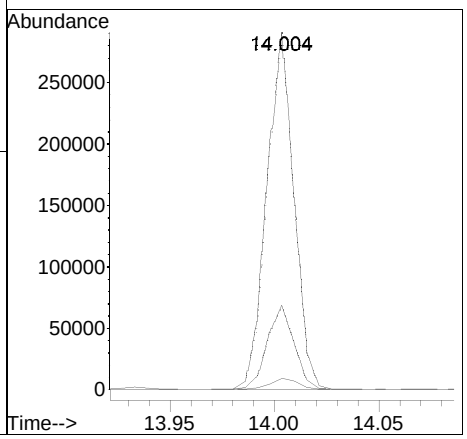


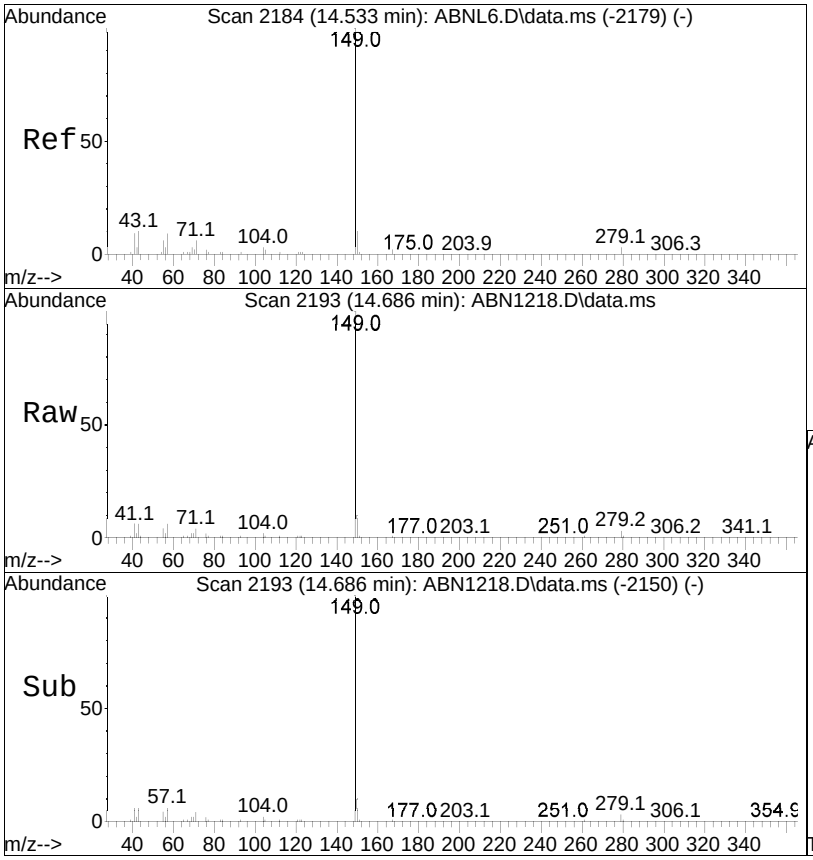


#108
Bis(2-ethylhexyl)phthalate
Concen: 4.74 ug/ml
RT: 14.004 min Scan# 2077
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:149 Resp: 259536

Ion	Ratio	Lower	Upper
149	100		
167	23.4	22.1	33.1
279	3.0	3.0	4.4

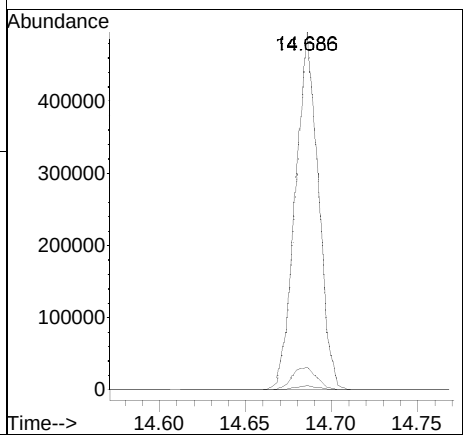


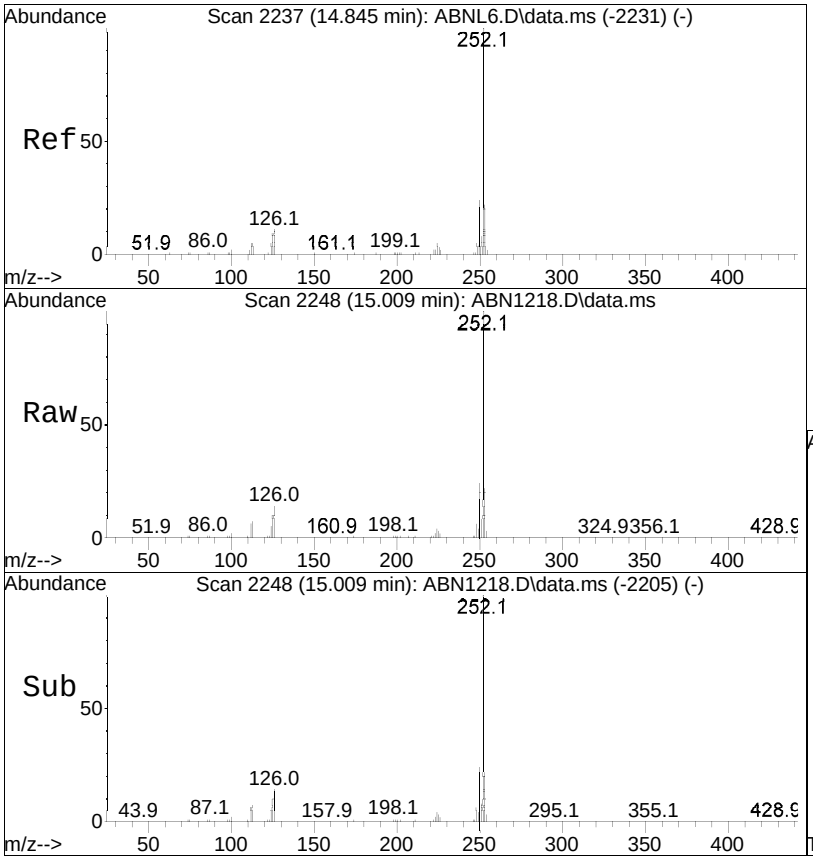


#109
Di-n-octylphthalate
Concen: 4.99 ug/ml
RT: 14.686 min Scan# 2193
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:149 Resp: 453418

Ion	Ratio	Lower	Upper
149	100		
43	7.1	18.8	28.2#
167	1.4	1.3	1.9

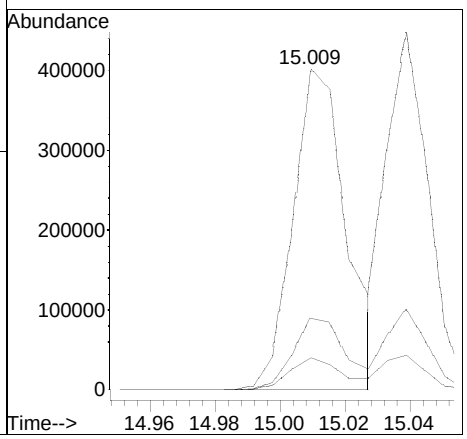


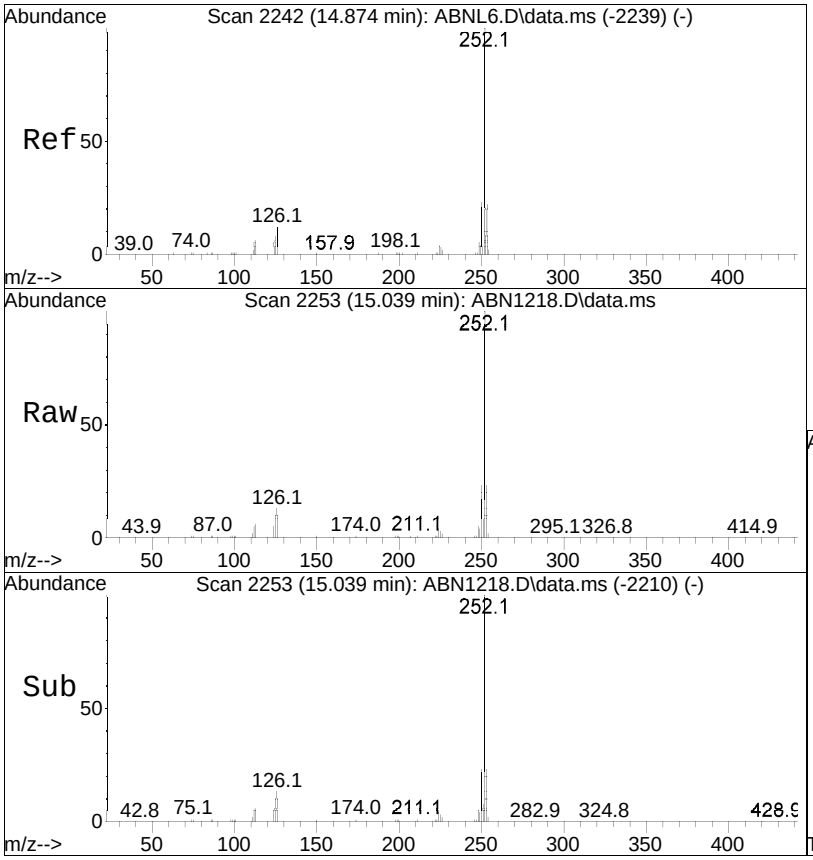


#110
Benzo(b)fluoranthene
Concen: 5.23 ug/ml
RT: 15.009 min Scan# 2248
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:252 Resp: 459757

Ion	Ratio	Lower	Upper
252	100		
125	9.0	13.3	19.9#
253	22.4	17.1	25.7

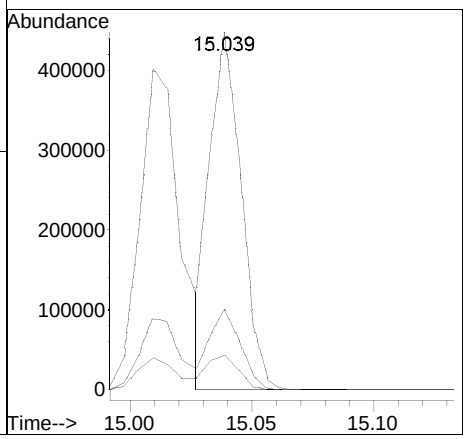


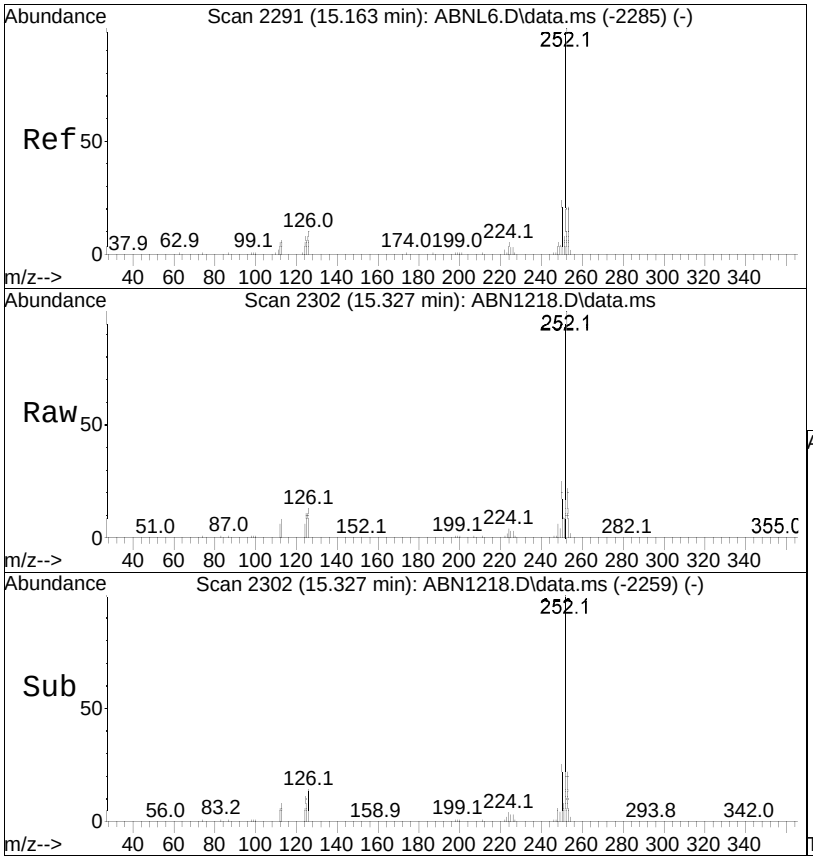


#111
Benzo(k)fluoranthene
Concen: 4.90 ug/ml
RT: 15.039 min Scan# 2253
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:252 Resp: 401238

Ion	Ratio	Lower	Upper
252	100		
125	10.8	13.0	19.6#
253	21.9	16.8	25.2

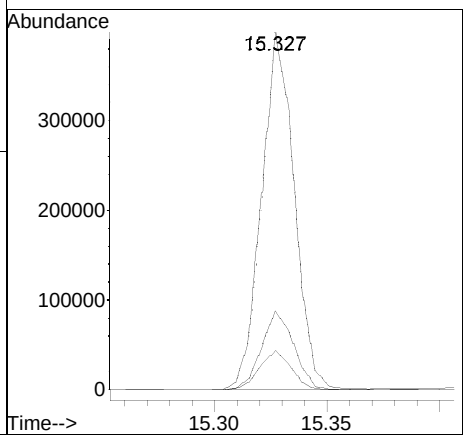


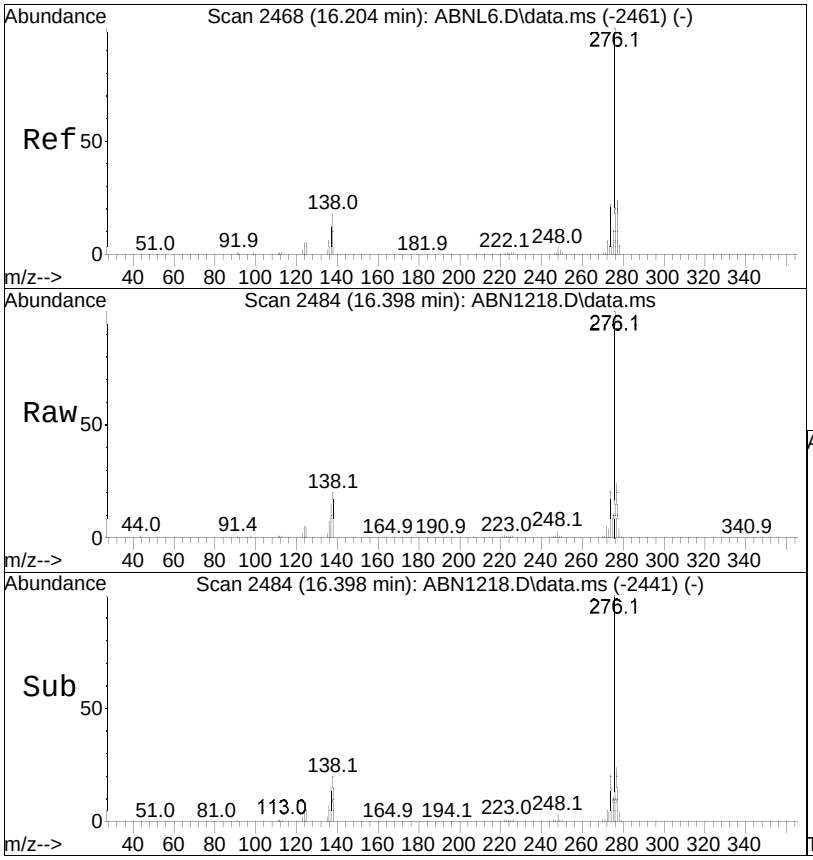


#112
Benzo(a)pyrene
Concen: 5.22 ug/ml
RT: 15.327 min Scan# 2302
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:252 Resp: 398809

Ion	Ratio	Lower	Upper
252	100		
125	10.8	14.2	21.2#
253	22.1	16.9	25.3

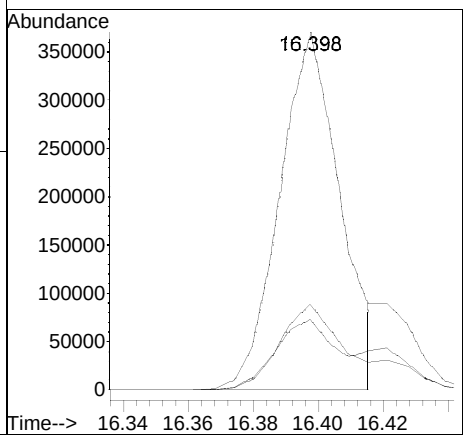


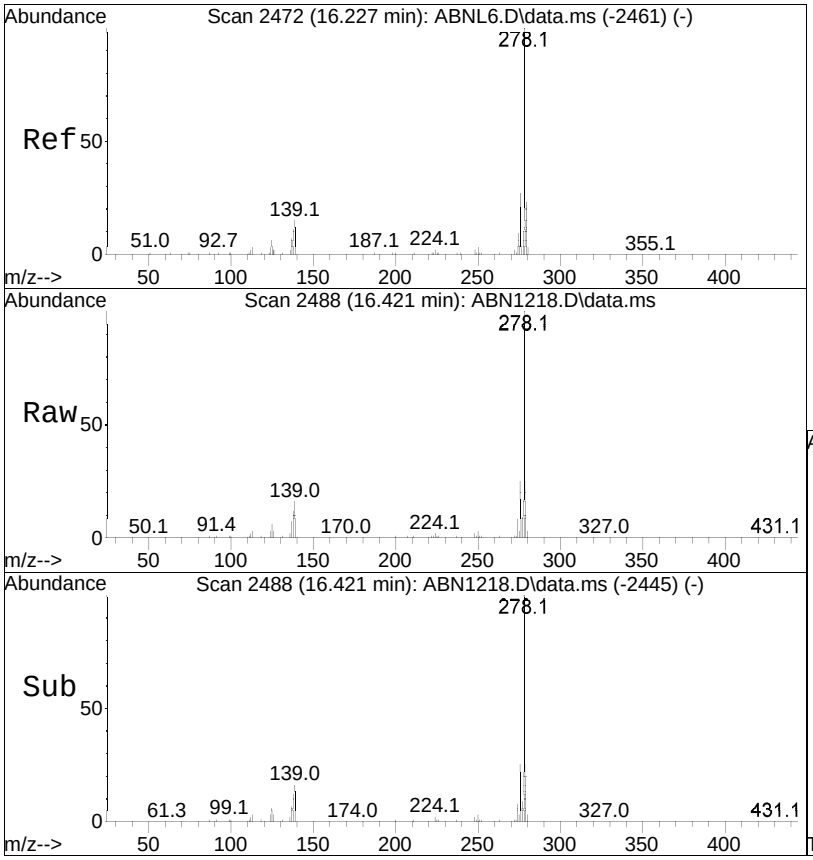


#114
Indeno(1,2,3-cd)pyrene
Concen: 5.21 ug/mL M6
RT: 16.398 min Scan# 2484
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:276 Resp: 480901

Ion	Ratio	Lower	Upper
276	100		
138	29.4	25.1	37.7
277	29.9	18.6	28.0#

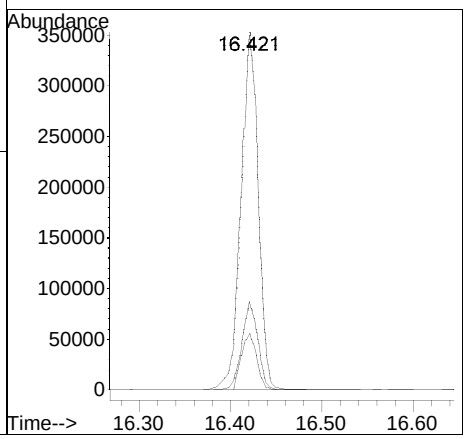


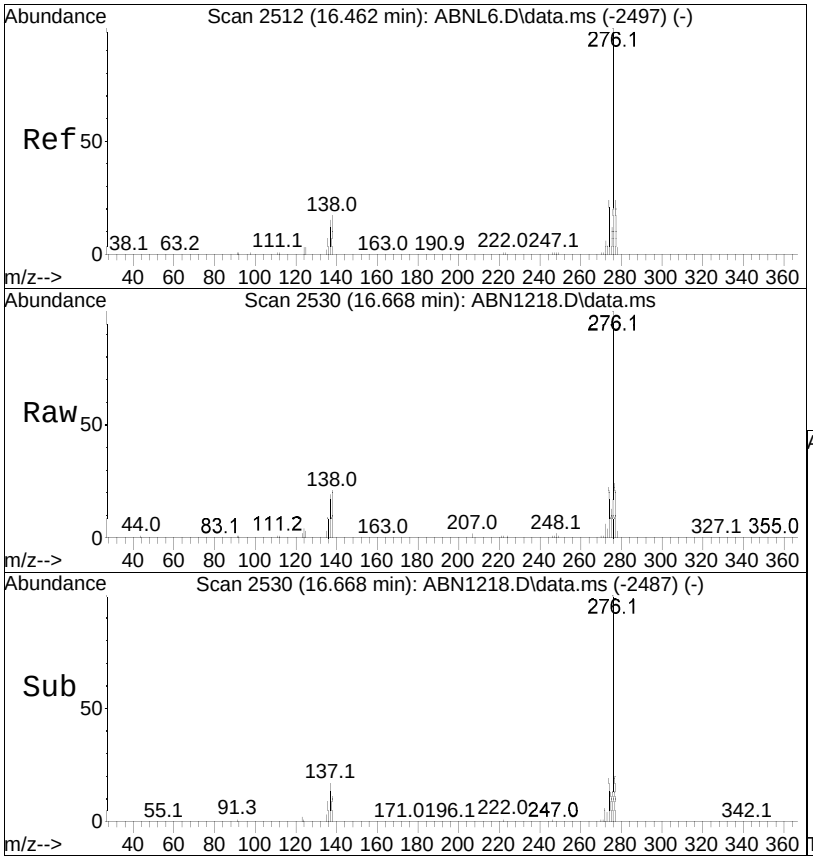


#115
Dibenzo(a,h)anthracene
Concen: 5.20 ug/ml
RT: 16.421 min Scan# 2488
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:278 Resp: 456172

Ion	Ratio	Lower	Upper
278	100		
139	14.3	20.8	31.2#
279	23.2	18.3	27.5

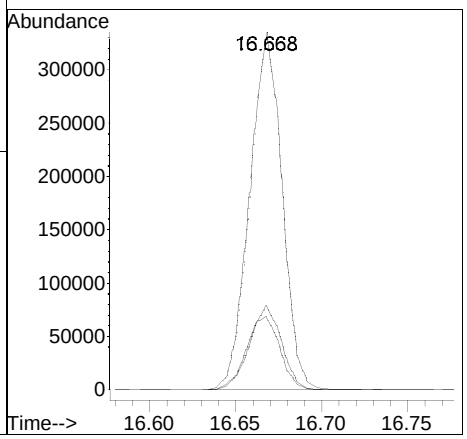




#116
Benzo(ghi)perylene
Concen: 5.28 ug/ml
RT: 16.668 min Scan# 2530
Delta R.T. 0.000 min
Lab File: ABN1218.D
Acq: 18 Dec 2024 10:19 pm

Tgt Ion:276 Resp: 434164

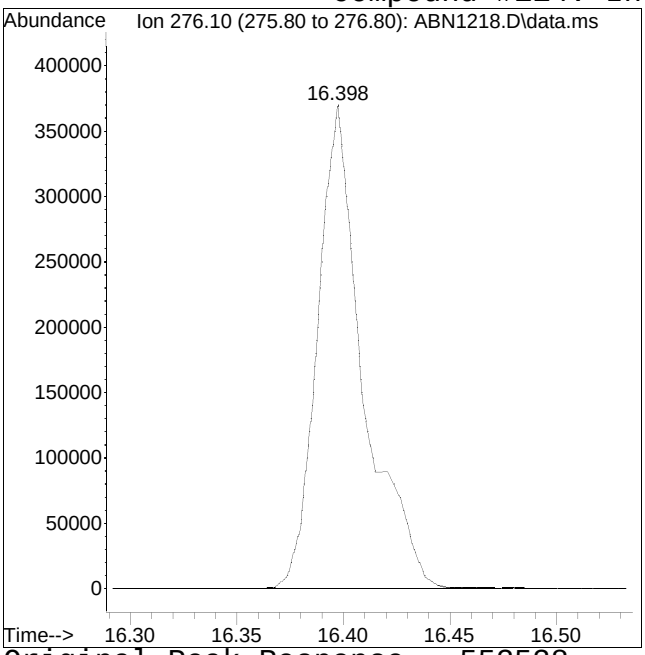
Ion	Ratio	Lower	Upper
276	100		
138	21.5	29.2	43.8#
277	23.5	18.8	28.2



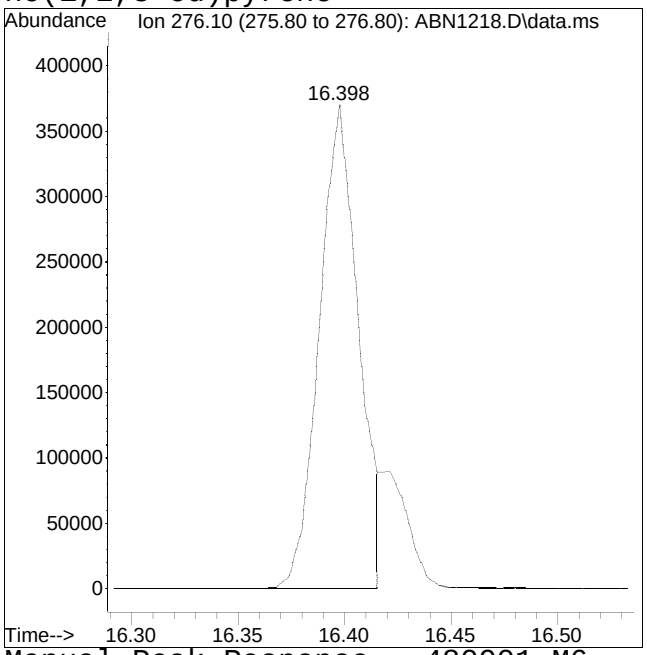
Manual Integration Report

Data Path : I:\8270\SV106\241218RVT\ QMethod : FS241009SV106.m
Data File : ABN1218.D Operator : SV106:im
Date Inj'd : 12/18/2024 10:19 pm Instrument : SV 106
Sample : WG2011026-3,32,,ABN RVT CCQuant Date : 12/18/2024 11:02 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 553538



Manual Peak Response = 480901 M6

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\241218RVT\
Data File : AP91218.D
Acq On : 18 Dec 2024 10:43 pm
Operator : SV106:im
Sample : WG2011026-4,32,,AP9 RVT CCV Lot # 11152
Misc : WG2011026,,ical21604
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Dec 18 23:04:02 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:05:36 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	84	0.00
28	T	Benzaldehyde	0.948	0.908	4.2	78	0.00
29	T	Acetophenone	1.829	1.553	15.1	72	0.00
30	T	m-Toluidine	1.612	1.484	7.9	77	0.00
31	T	2-Chloroaniline	1.609	1.490	7.4	76	0.00
55	I	IS2_Naphthalene-d8	1.000	1.000	0.0	79	0.00
56	T	a-Terpineol	0.282	0.213	24.5#	60	0.00
57	T	3-Chloroaniline	0.132	0.117	11.4	66	0.00
58	T	2,6-Dichlorophenol	0.300	0.291	3.0	74	0.00
59	T	1-chloro-2-nitrobenzene	0.145	0.130	10.3	71	0.00
60	T	Caprolactam	0.147	0.111	24.5#	59	0.00
61	T	1,2,4,5-Tetrachlorobenzene	0.402	0.366	9.0	73	0.00
62	T	Biphenyl	0.907	0.829	8.6	71	0.00
83	I	IS2_Acenaphthene-d10	1.000	1.000	0.0	79	0.00
84	T	Dichloran	0.181	0.186	-2.8	82	0.00
85	T	Pentachloronitrobenzene	0.193	0.200	-3.6	79	0.00
98	I	IS2_Phenanthrene-d10	1.000	1.000	0.0	74	0.00
99	T	Diphenamid	0.505	0.511	-1.2	72	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241218RVT\
Data File : AP91218.D
Acq On : 18 Dec 2024 10:43 pm
Operator : SV106:im
Sample : WG2011026-4,32,,AP9 RVT CCV Lot # 11152
Misc : WG2011026,,ical21604
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Dec 18 23:04:02 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:05:36 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...	6.640	152	57665	4.000	ug/ml	0.00
55) IS2_Naphthalene-d8	8.045	136	207211	4.000	ug/ml	0.00
83) IS2_Acenaphthene-d10	9.804	164	120872	4.000	ug/ml	0.00
98) IS2_Phenanthrene-d10	11.251	188	240818	4.000	ug/ml	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	6.087	105	65433	4.790	ug/ml	89
29) Acetophenone	7.128	105	111942	4.246	ug/ml#	76
30) m-Toluidine	7.222	106	106942	4.601	ug/ml	97
31) 2-Chloroaniline	7.622	127	107384	4.628	ug/ml#	89
56) a-Terpineol	8.116	59	55224	3.778	ug/ml#	63
57) 3-Chloroaniline	8.128	65	30278	4.412	ug/ml	86
58) 2,6-Dichlorophenol	8.157	162	75306	4.846	ug/ml#	81
59) 1-chloro-2-nitrobenzene	8.422	111	33724	4.477	ug/ml#	1
60) Caprolactam	8.463	55	28867	3.799	ug/ml#	49
61) 1,2,4,5-Tetrachloroben...	8.957	216	94837	4.556	ug/ml	97
62) Biphenyl	9.257	154	214715	4.570	ug/ml	99
84) Dichloran	10.939	206	28097	5.135	ug/ml#	67
85) Pentachloronitrobenzene	11.092	237	30219	5.174	ug/ml#	75
99) Diphenamid	12.151	167	153951	5.064	ug/ml#	69

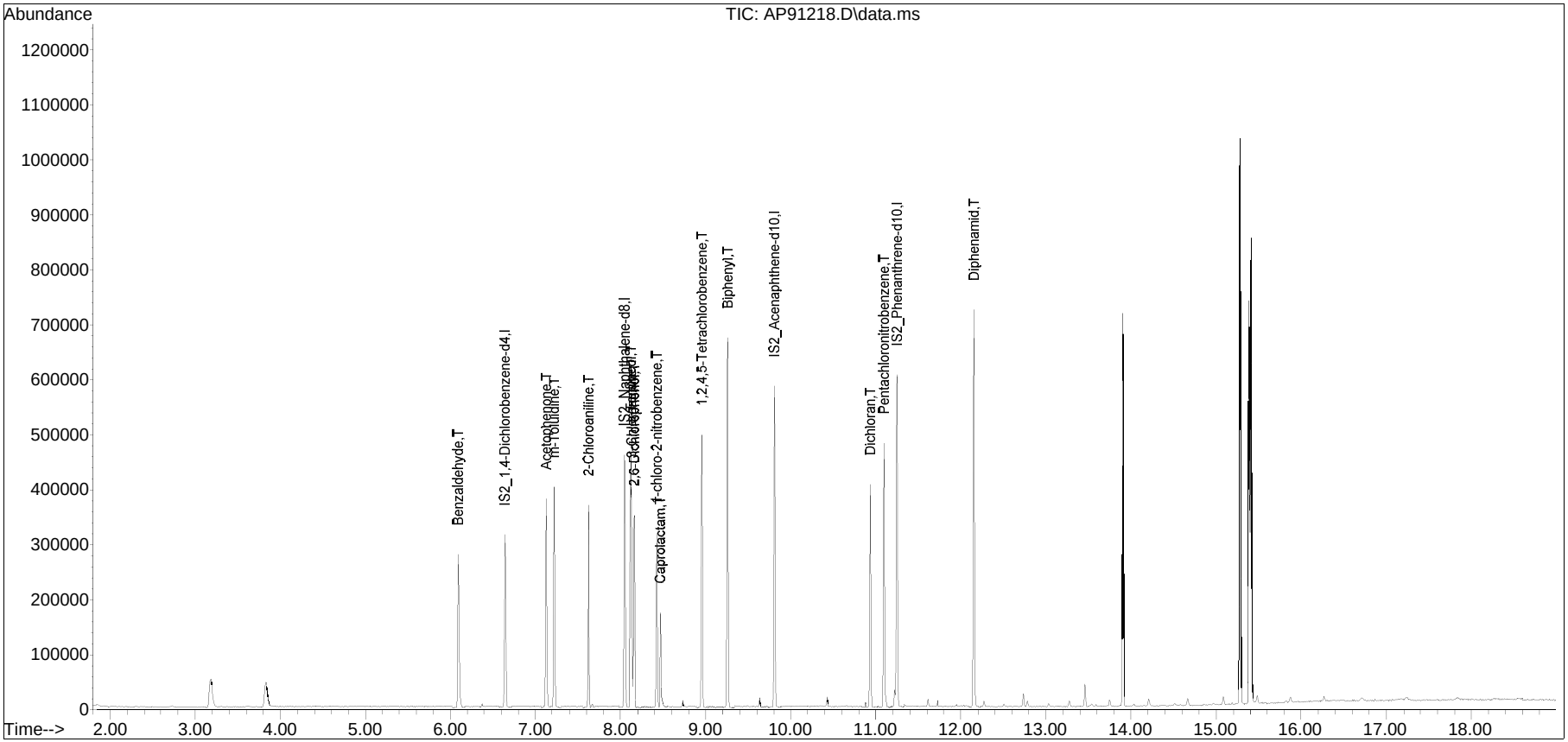
(#) = qualifier out of range (m) = manual integration (+) = signals summed

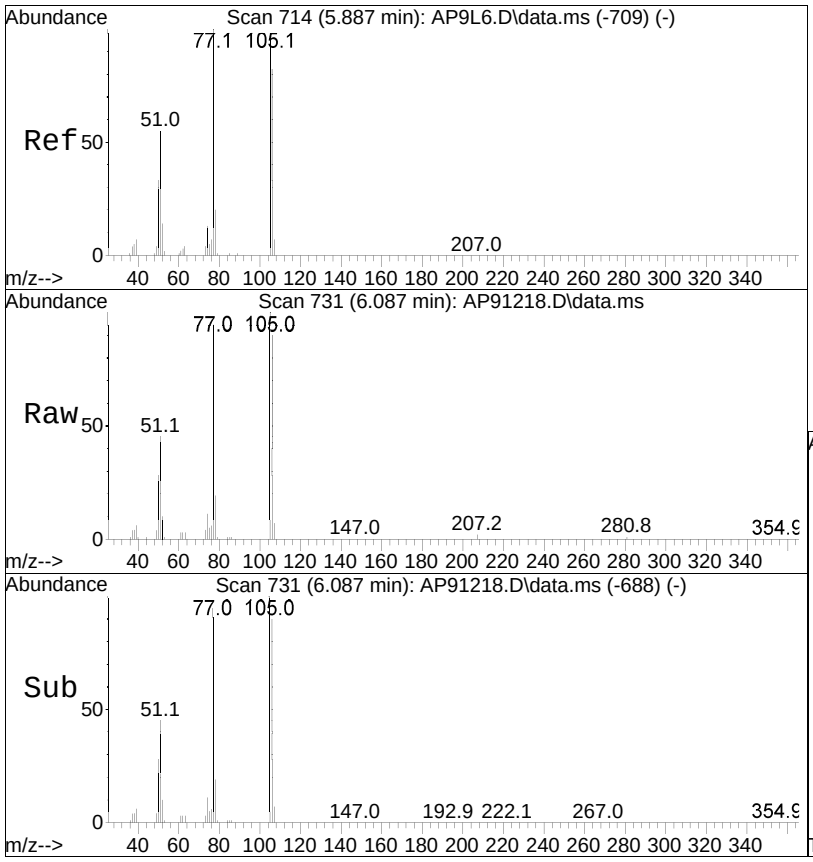
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241218RVT\
Data File : AP91218.D
Acq On : 18 Dec 2024 10:43 pm
Operator : SV106:im
Sample : WG2011026-4,32,,AP9 RVT CCV Lot # 11152
Misc : WG2011026,,ical21604
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Dec 18 23:04:02 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:05:36 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

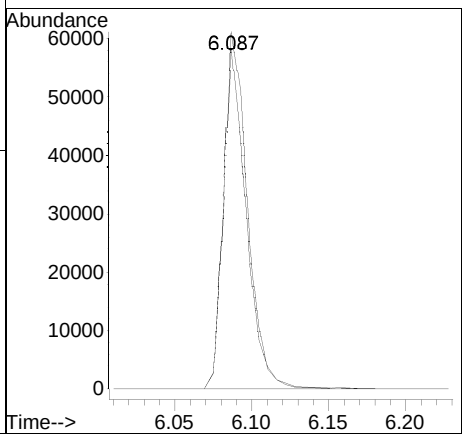


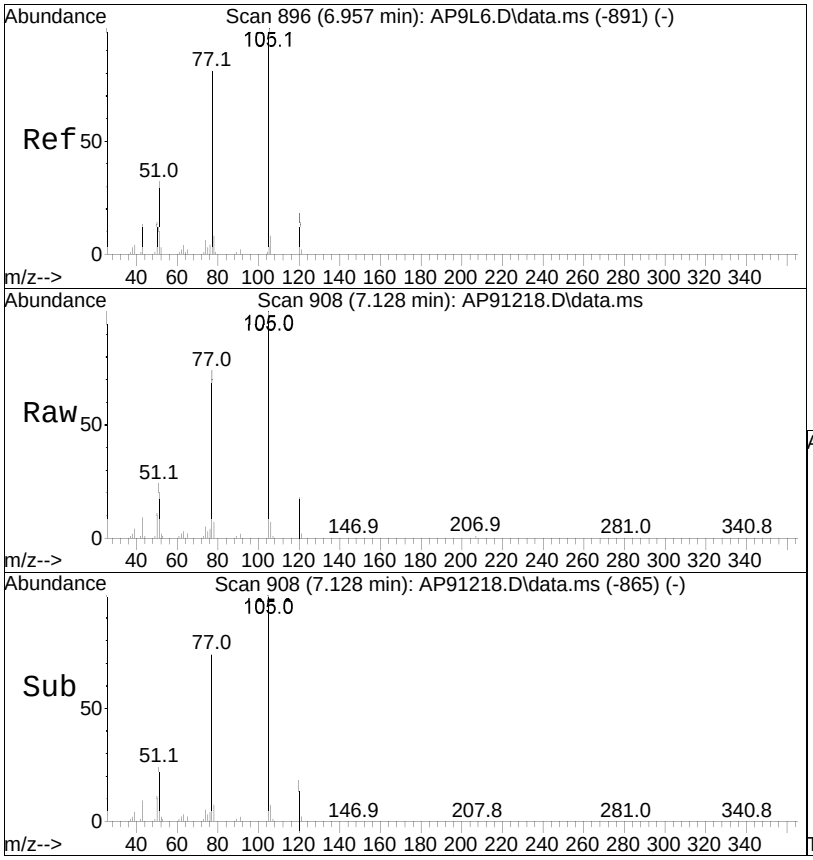


#28
Benzaldehyde
Concen: 4.79 ug/ml
RT: 6.087 min Scan# 731
Delta R.T. 0.000 min
Lab File: AP91218.D
Acq: 18 Dec 2024 10:43 pm

Tgt Ion:105 Resp: 65433

Ion	Ratio	Lower	Upper
105	100		
77	91.6	82.2	123.4

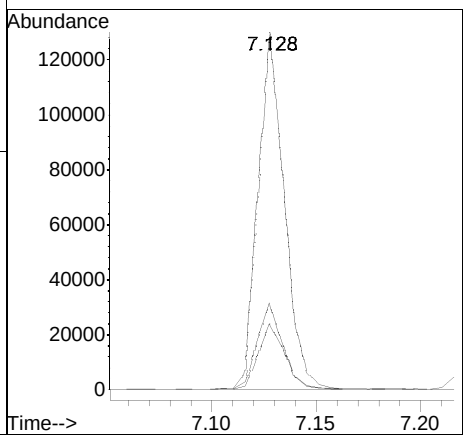


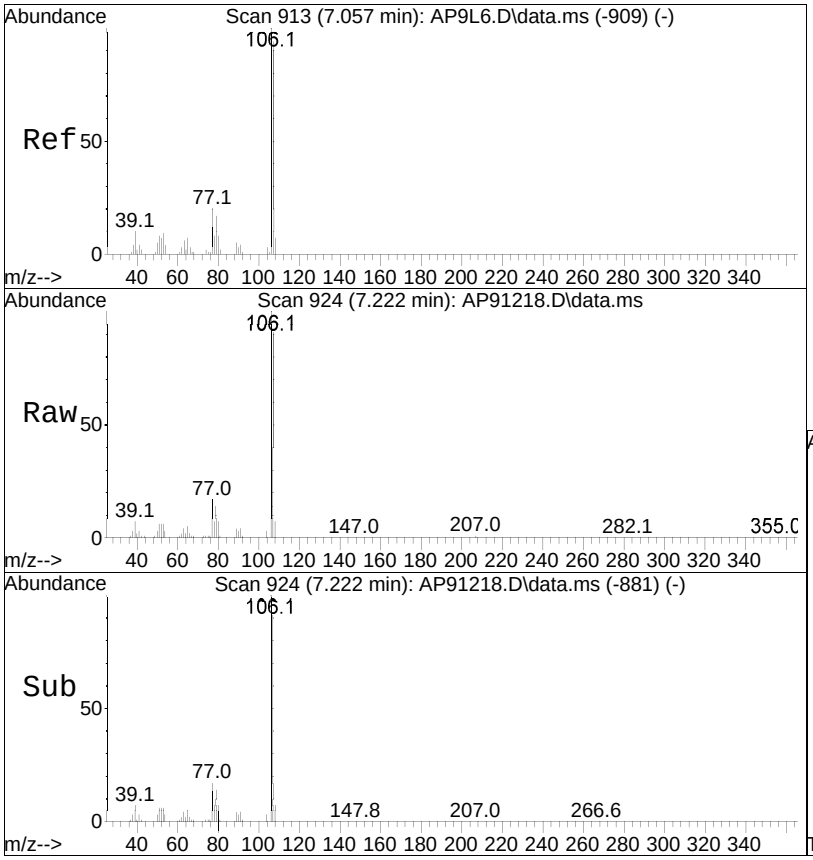


#29
Acetophenone
Concen: 4.25 ug/ml
RT: 7.128 min Scan# 908
Delta R.T. 0.000 min
Lab File: AP91218.D
Acq: 18 Dec 2024 10:43 pm

Tgt Ion:105 Resp: 111942

Ion	Ratio	Lower	Upper
105	100		
120	18.8	20.5	30.7#
51	23.9	34.9	52.3#

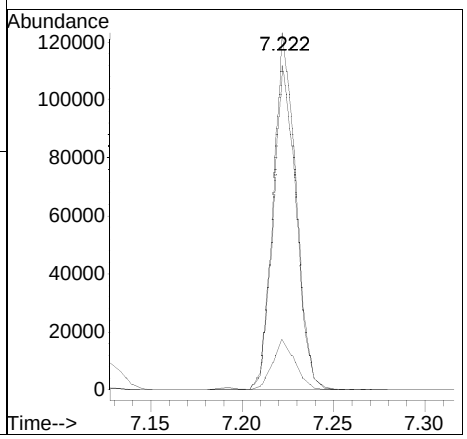


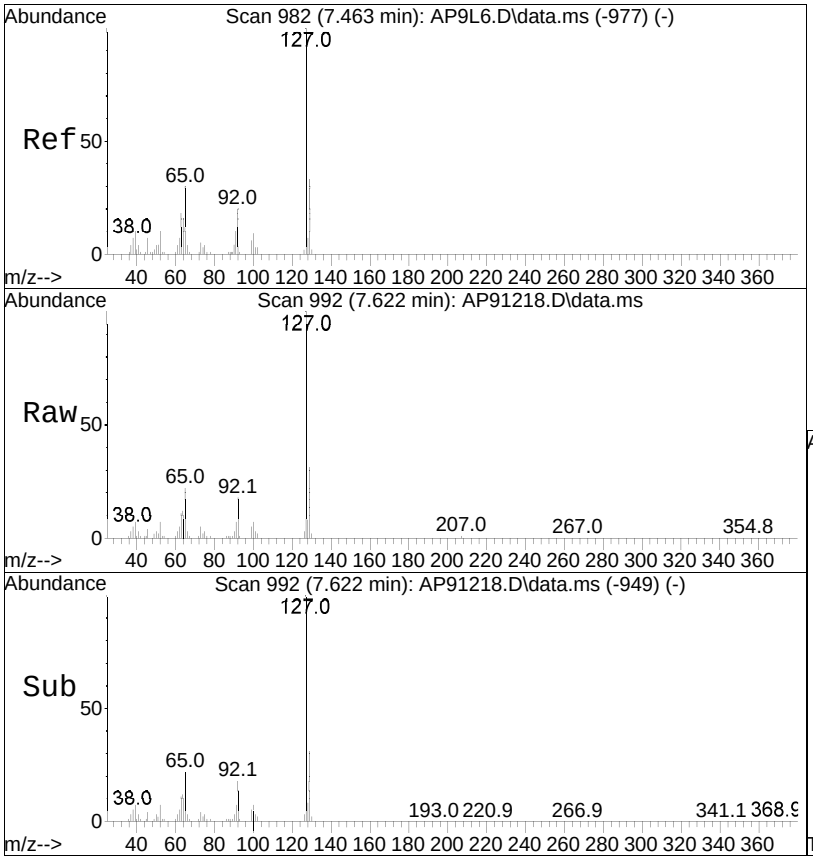


#30
m-Toluidine
Concen: 4.60 ug/ml
RT: 7.222 min Scan# 924
Delta R.T. 0.000 min
Lab File: AP91218.D
Acq: 18 Dec 2024 10:43 pm

Tgt Ion:106 Resp: 106942

Ion	Ratio	Lower	Upper
106	100		
107	91.1	75.7	113.5
79	14.1	11.8	17.8

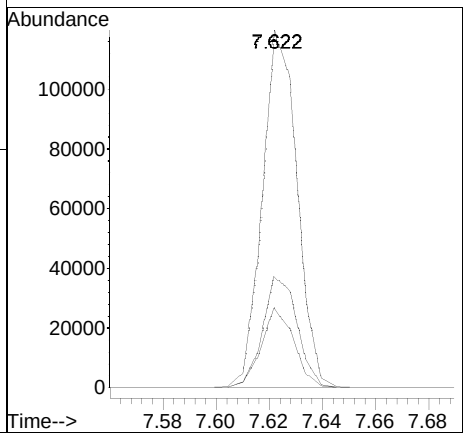


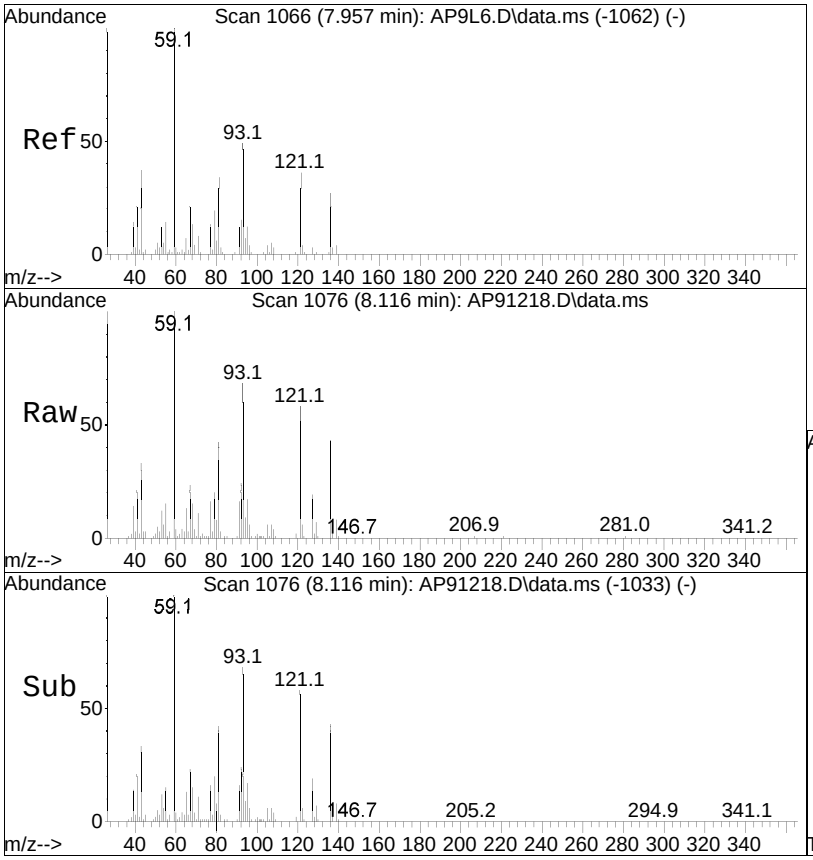


#31
2-Chloroaniline
Concen: 4.63 ug/ml
RT: 7.622 min Scan# 992
Delta R.T. 0.000 min
Lab File: AP91218.D
Acq: 18 Dec 2024 10:43 pm

Tgt Ion:127 Resp: 107384

Ion	Ratio	Lower	Upper
127	100		
129	31.3	25.9	38.9
65	21.2	26.3	39.5#

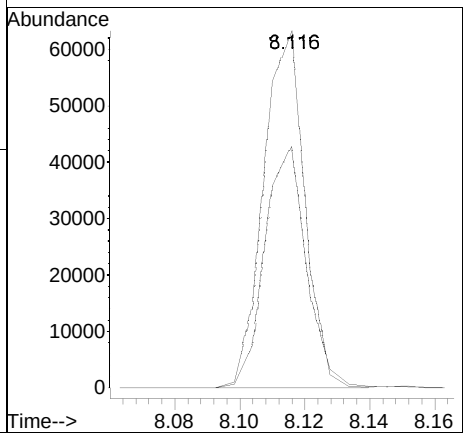


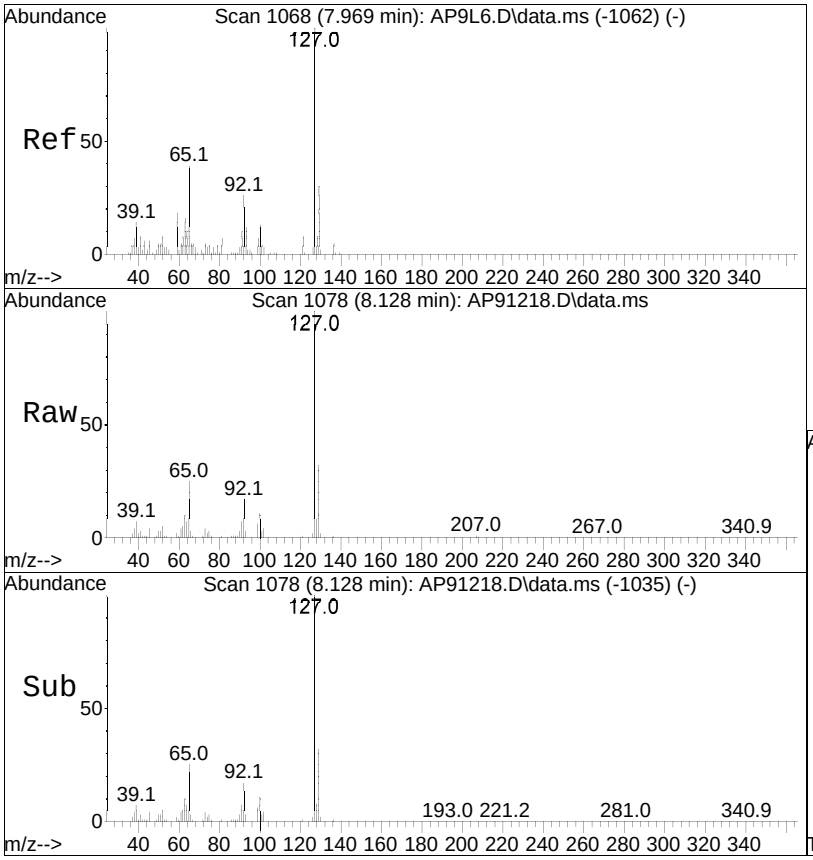


#56
a-Terpineol
Concen: 3.78 ug/ml
RT: 8.116 min Scan# 1076
Delta R.T. 0.000 min
Lab File: AP91218.D
Acq: 18 Dec 2024 10:43 pm

Tgt Ion: 59 Resp: 55224

Ion	Ratio	Lower	Upper
59	100		
93	68.9	35.6	53.4#

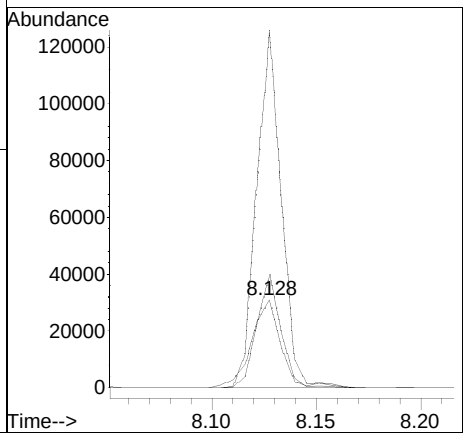


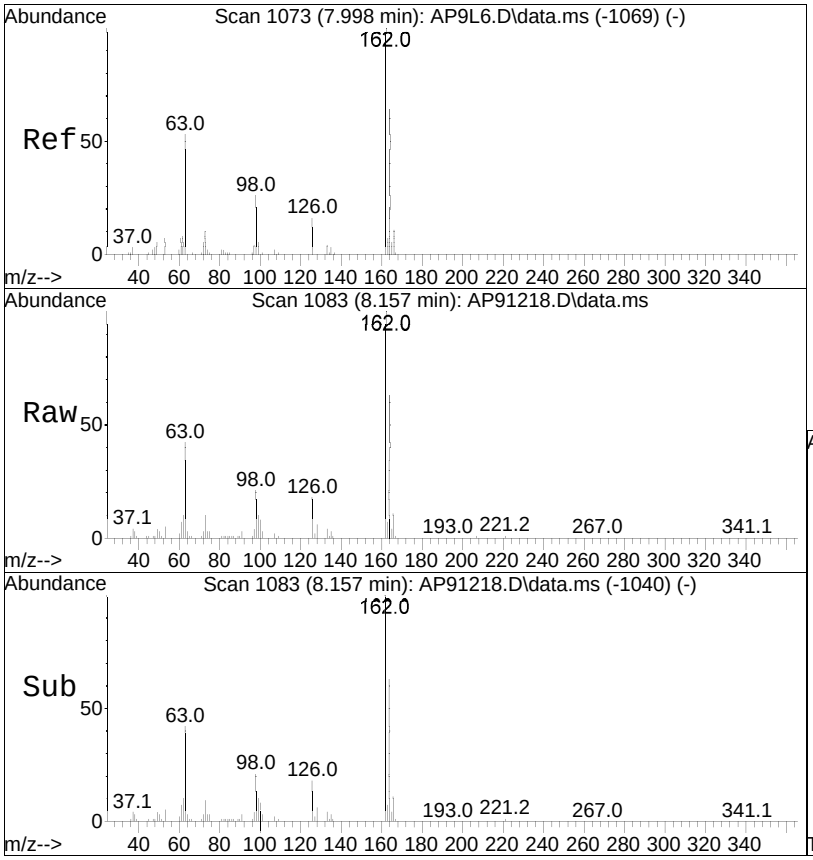


#57
3-Chloroaniline
Concen: 4.41 ug/ml
RT: 8.128 min Scan# 1078
Delta R.T. 0.000 min
Lab File: AP91218.D
Acq: 18 Dec 2024 10:43 pm

Tgt Ion: 65 Resp: 30278

Ion	Ratio	Lower	Upper
65	100		
127	336.4	243.2	364.8
129	105.8	78.8	118.2

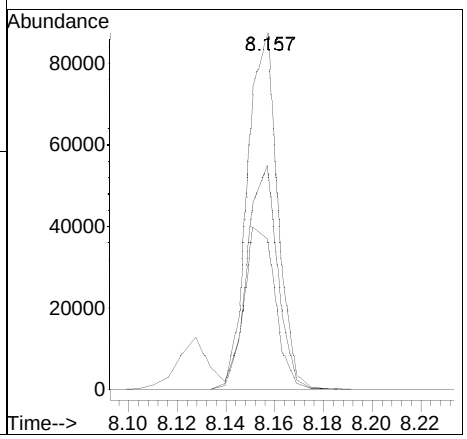


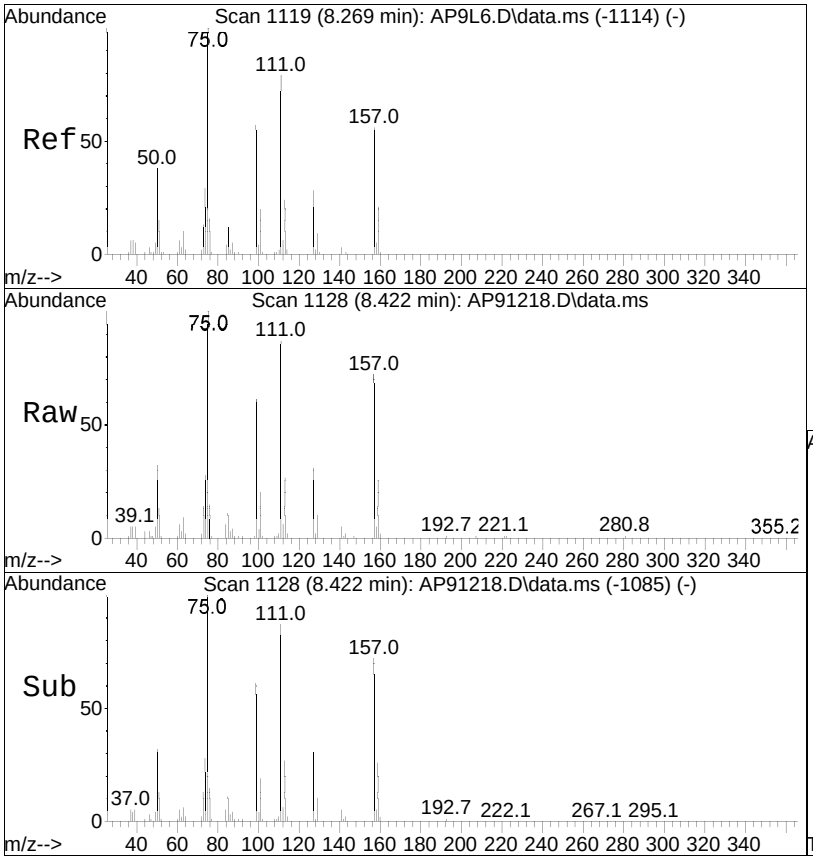


#58
2,6-Dichlorophenol
Concen: 4.85 ug/ml
RT: 8.157 min Scan# 1083
Delta R.T. 0.000 min
Lab File: AP91218.D
Acq: 18 Dec 2024 10:43 pm

Tgt Ion:162 Resp: 75306

Ion	Ratio	Lower	Upper
162	100		
164	63.0	51.1	76.7
63	47.2	60.8	91.2#

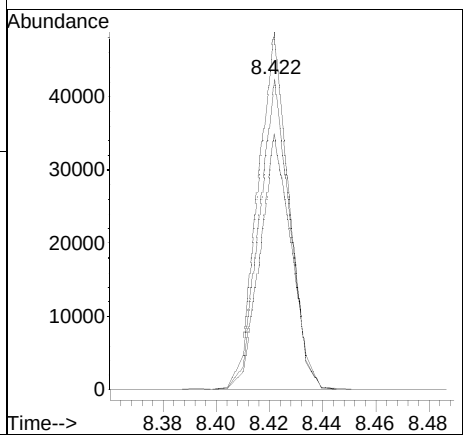


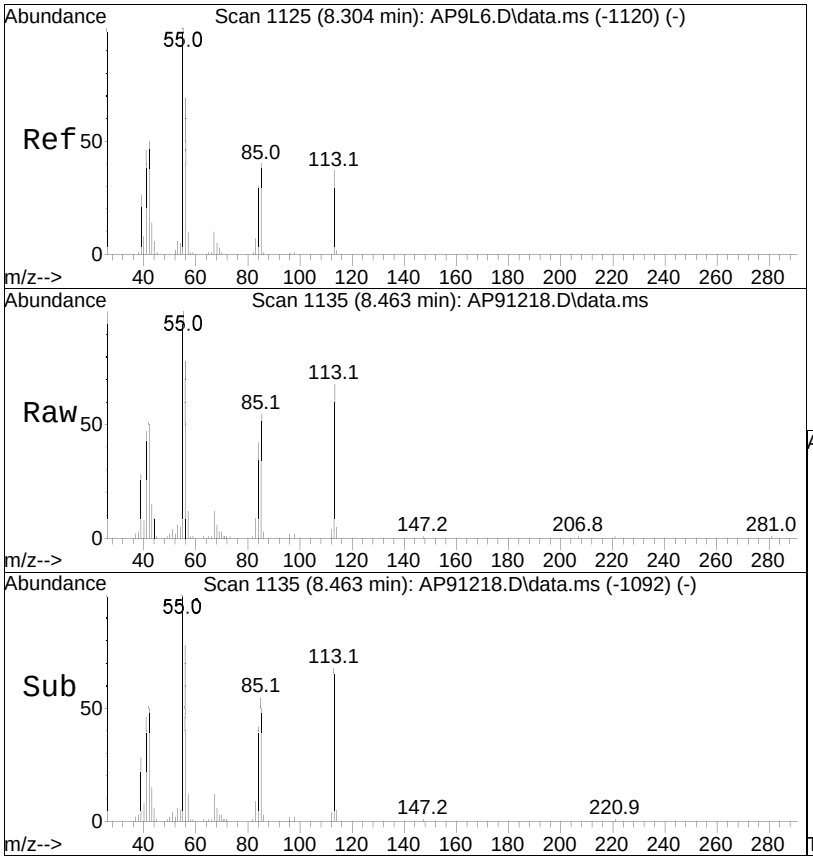


#59
1-chloro-2-nitrobenzene
Concen: 4.48 ug/ml
RT: 8.422 min Scan# 1128
Delta R.T. 0.000 min
Lab File: AP91218.D
Acq: 18 Dec 2024 10:43 pm

Tgt Ion:111 Resp: 33724

Ion	Ratio	Lower	Upper
111	100		
157	84.0	0.0	0.0#
75	116.2	28.2	42.2#

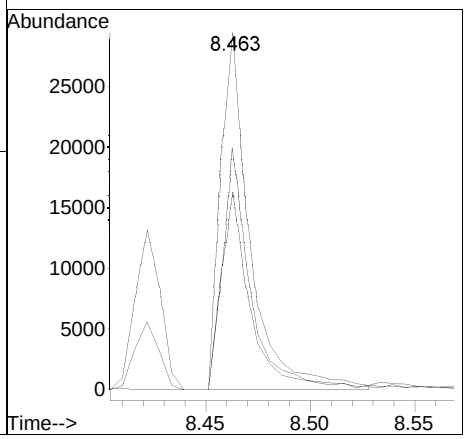


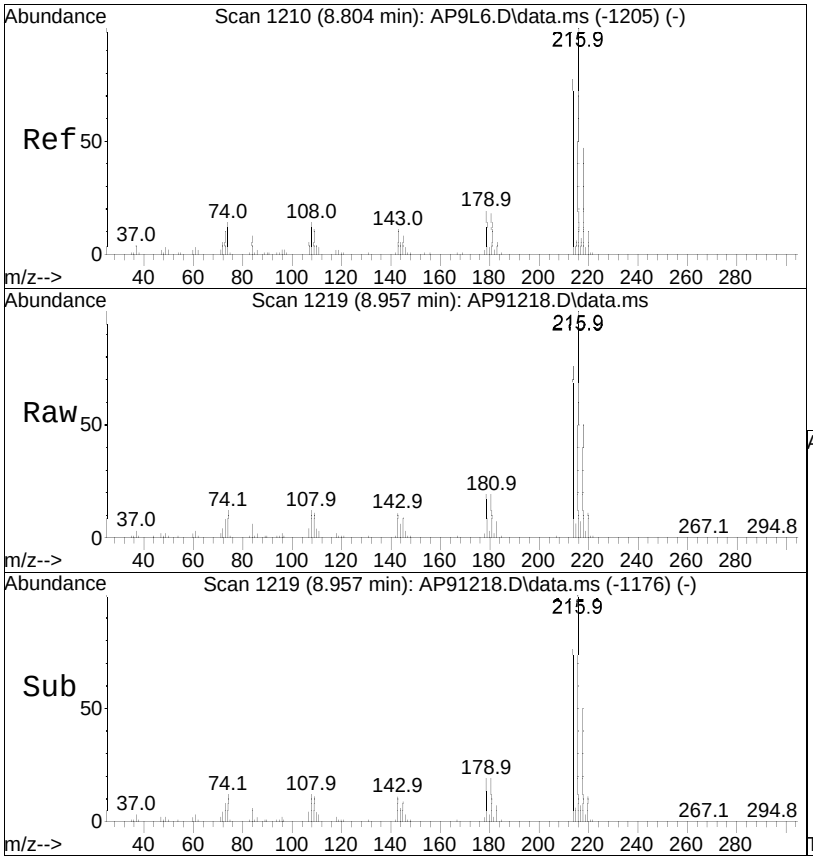


#60
Caprolactam
Concen: 3.80 ug/ml
RT: 8.463 min Scan# 1135
Delta R.T. 0.000 min
Lab File: AP91218.D
Acq: 18 Dec 2024 10:43 pm

Tgt Ion: 55 Resp: 28867

Ion	Ratio	Lower	Upper
55	100		
85	54.6	19.8	29.6#
113	64.3	29.6	44.4#

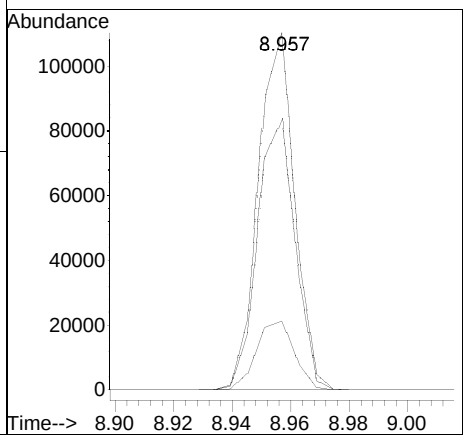


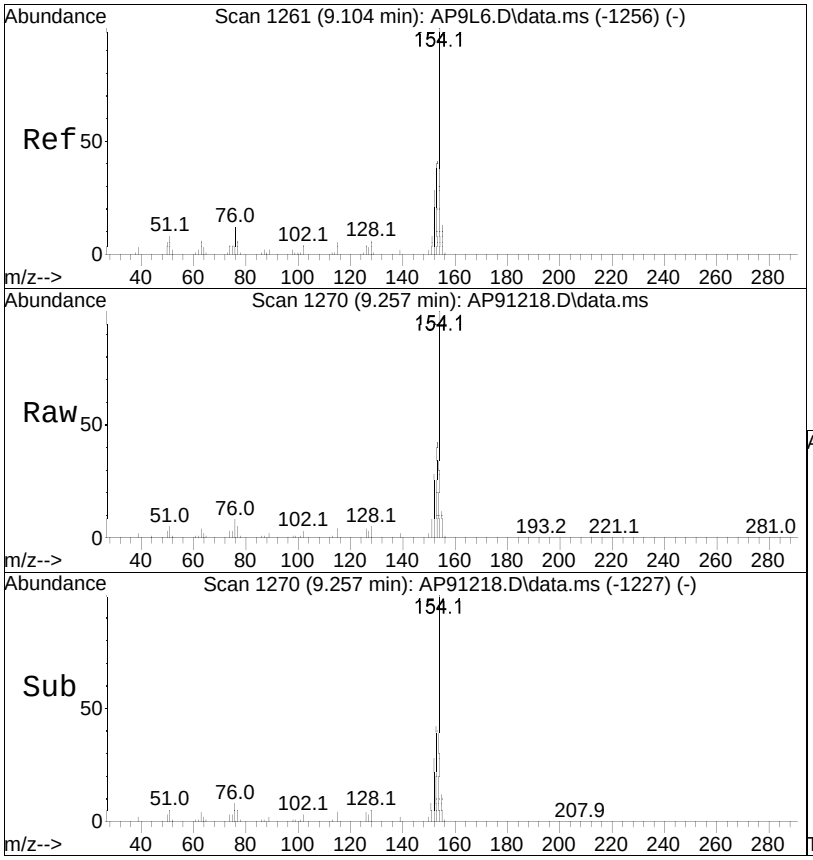


#61
1,2,4,5-Tetrachlorobenzene
Concen: 4.56 ug/ml
RT: 8.957 min Scan# 1219
Delta R.T. 0.000 min
Lab File: AP91218.D
Acq: 18 Dec 2024 10:43 pm

Tgt Ion:216 Resp: 94837

Ion	Ratio	Lower	Upper
216	100		
214	78.5	63.7	95.5
179	20.4	19.0	28.6

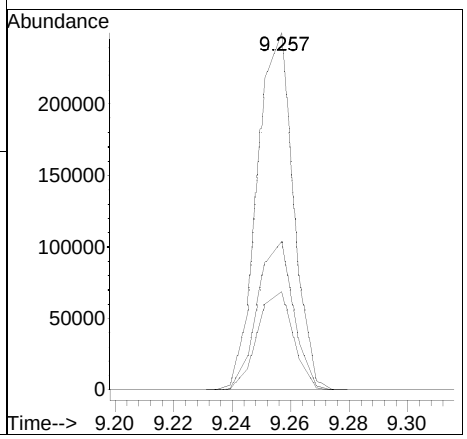


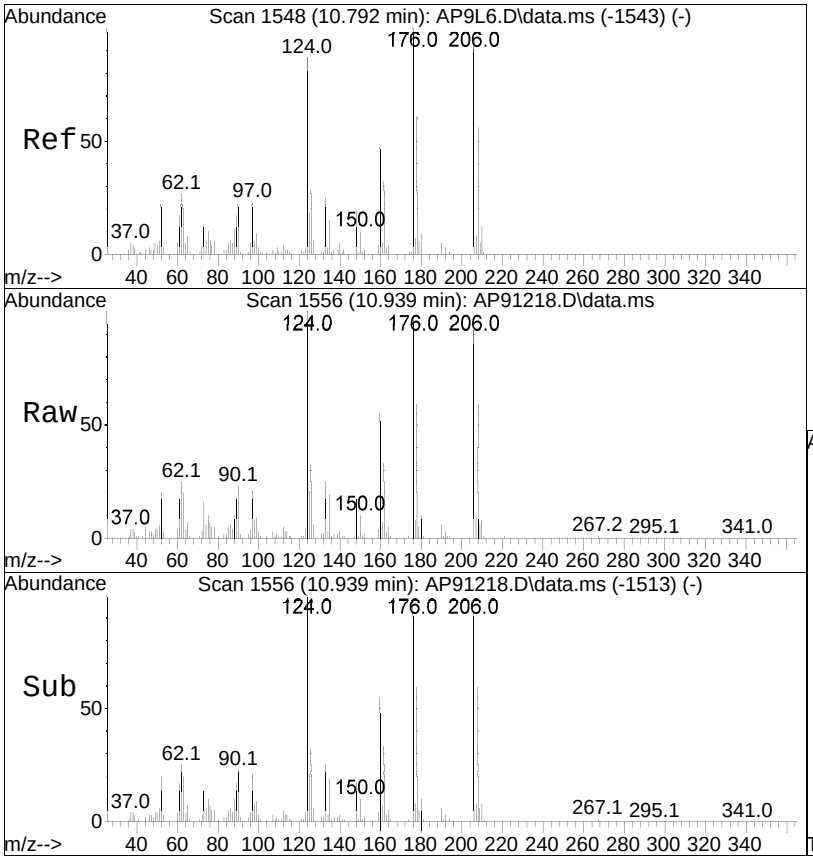


#62
Biphenyl
Concen: 4.57 ug/ml
RT: 9.257 min Scan# 1270
Delta R.T. 0.000 min
Lab File: AP91218.D
Acq: 18 Dec 2024 10:43 pm

Tgt Ion:154 Resp: 214715

Ion	Ratio	Lower	Upper
154	100		
153	41.5	32.3	48.5
152	27.6	22.5	33.7

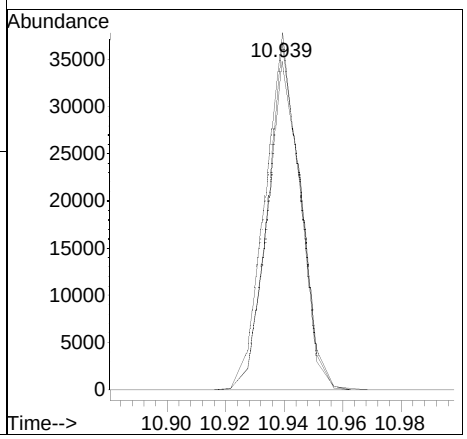


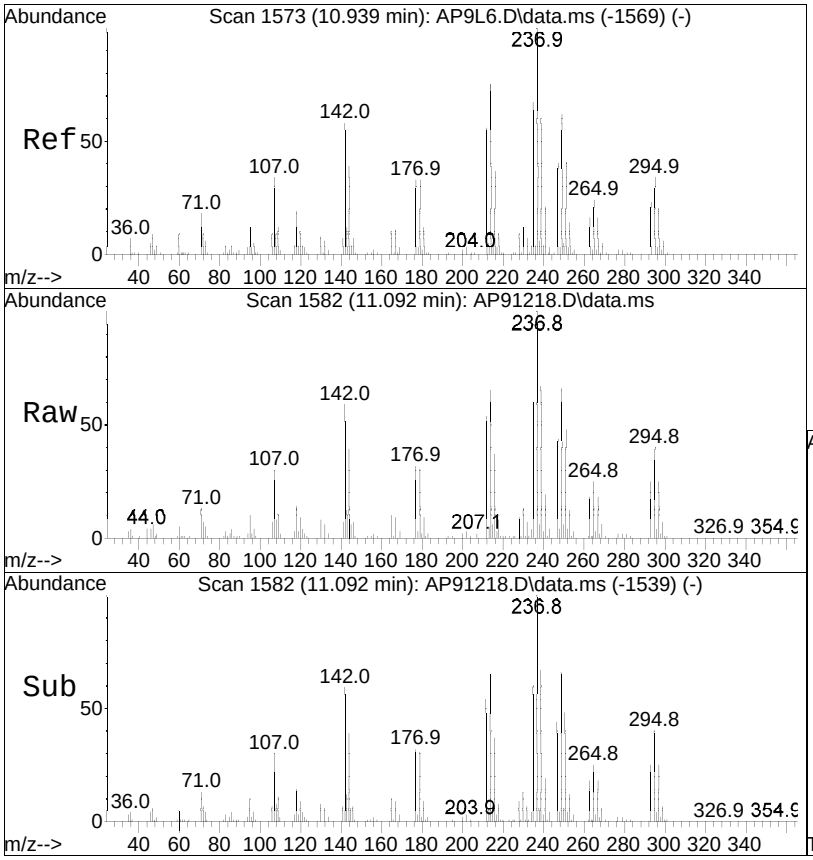


#84
Dichloran
Concen: 5.13 ug/ml
RT: 10.939 min Scan# 1556
Delta R.T. 0.000 min
Lab File: AP91218.D
Acq: 18 Dec 2024 10:43 pm

Tgt Ion:206 Resp: 28097

Ion	Ratio	Lower	Upper
206	100		
176	101.5	104.6	157.0#
124	109.4	130.5	195.7#

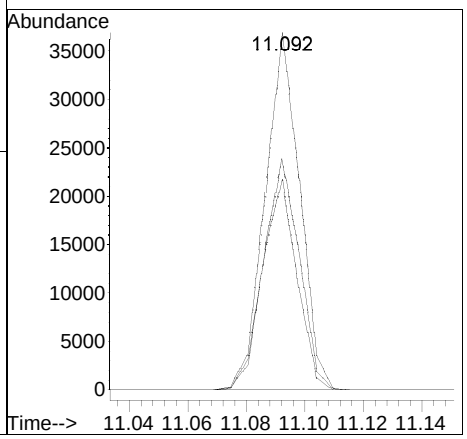


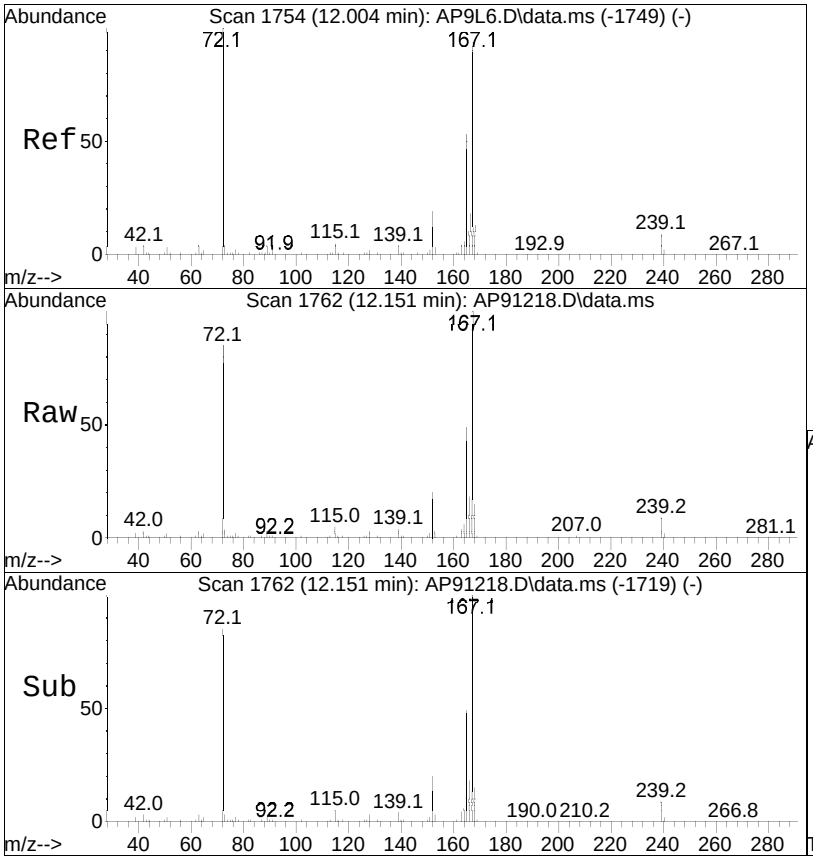


#85
Pentachloronitrobenzene
Concen: 5.17 ug/ml
RT: 11.092 min Scan# 1582
Delta R.T. 0.000 min
Lab File: AP91218.D
Acq: 18 Dec 2024 10:43 pm

Tgt Ion:237 Resp: 30219

Ion	Ratio	Lower	Upper
237	100		
142	59.2	77.0	115.4#
214	66.5	58.2	87.4

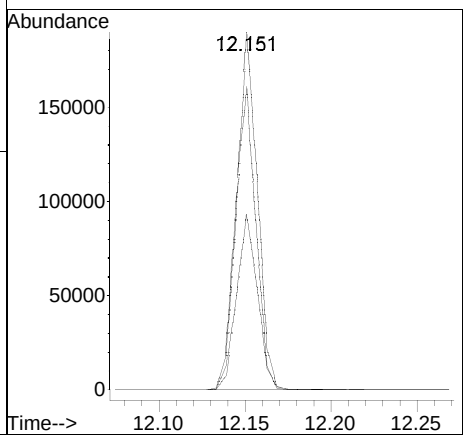




#99
Diphenamid
Concen: 5.06 ug/ml
RT: 12.151 min Scan# 1762
Delta R.T. 0.000 min
Lab File: AP91218.D
Acq: 18 Dec 2024 10:43 pm

Tgt Ion:167 Resp: 153951

Ion	Ratio	Lower	Upper
167	100		
72	86.2	109.7	164.5#
165	50.3	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\SV106\241218RVT\	QMethod	: FS241009SV106.m
Data File	: AP91218.D	Operator	: SV106:im
Date Inj'd	: 12/18/2024 10:43 pm	Instrument	: SV 106
Sample	: WG2011026-4,32,,AP9 RVT CC	Quant Date	: 12/18/2024 11:05 pm

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\241218RVT\
Data File : ADP1218.D
Acq On : 18 Dec 2024 11:07 pm
Operator : SV106:im
Sample : WG2011026-5,32,,ADP RVT CCV Lot # 11153
Misc : WG2011026,,ical21604
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Dec 18 23:36:40 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:16 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	60	0.00
33	t	1,4-Dioxane		0.485	0.426	12.2	64	0.00
34	T	n-Decane		1.486	1.087	26.9#	51	0.00
86	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	64	0.00
87	T	Atrazine		0.415	0.367	11.6	60	0.00
100	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	67	0.00
101	T	n-Octadecane		0.485	0.318	34.4#	44#	0.00
102	T	Parathion	*	5.000	4.497	10.1	69	0.00
103	T	3,3'-Dimethylbenzidine		0.821	0.740	9.9	66	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241218RVT\
Data File : ADP1218.D
Acq On : 18 Dec 2024 11:07 pm
Operator : SV106:im
Sample : WG2011026-5,32,,ADP RVT CCV Lot # 11153
Misc : WG2011026,,ical21604
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Dec 18 23:36:40 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:16 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...	6.640	152	50150	4.000	ug/ml	0.00
86)	IS3_Acenaphthene-d10	9.804	164	113815	4.000	ug/ml	0.00
100)	IS3_Phenanthrene-d10	11.245	188	236979	4.000	ug/ml	0.00
	System Monitoring Compounds						
	Target Compounds						Qvalue
33)	1,4-Dioxane	2.087	88	26686	4.384	ug/ml#	89
34)	n-Decane	6.528	57	68135	3.657	ug/ml#	47
87)	Atrazine	11.010	200	52243	4.424	ug/ml	93
101)	n-Octadecane	11.210	57	94339	3.280	ug/ml#	1
102)	Parathion	12.027	109	31518	4.497	ug/ml#	94
103)	3,3'-Dimethylbenzidine	13.327	212	219234	4.509	ug/ml	99

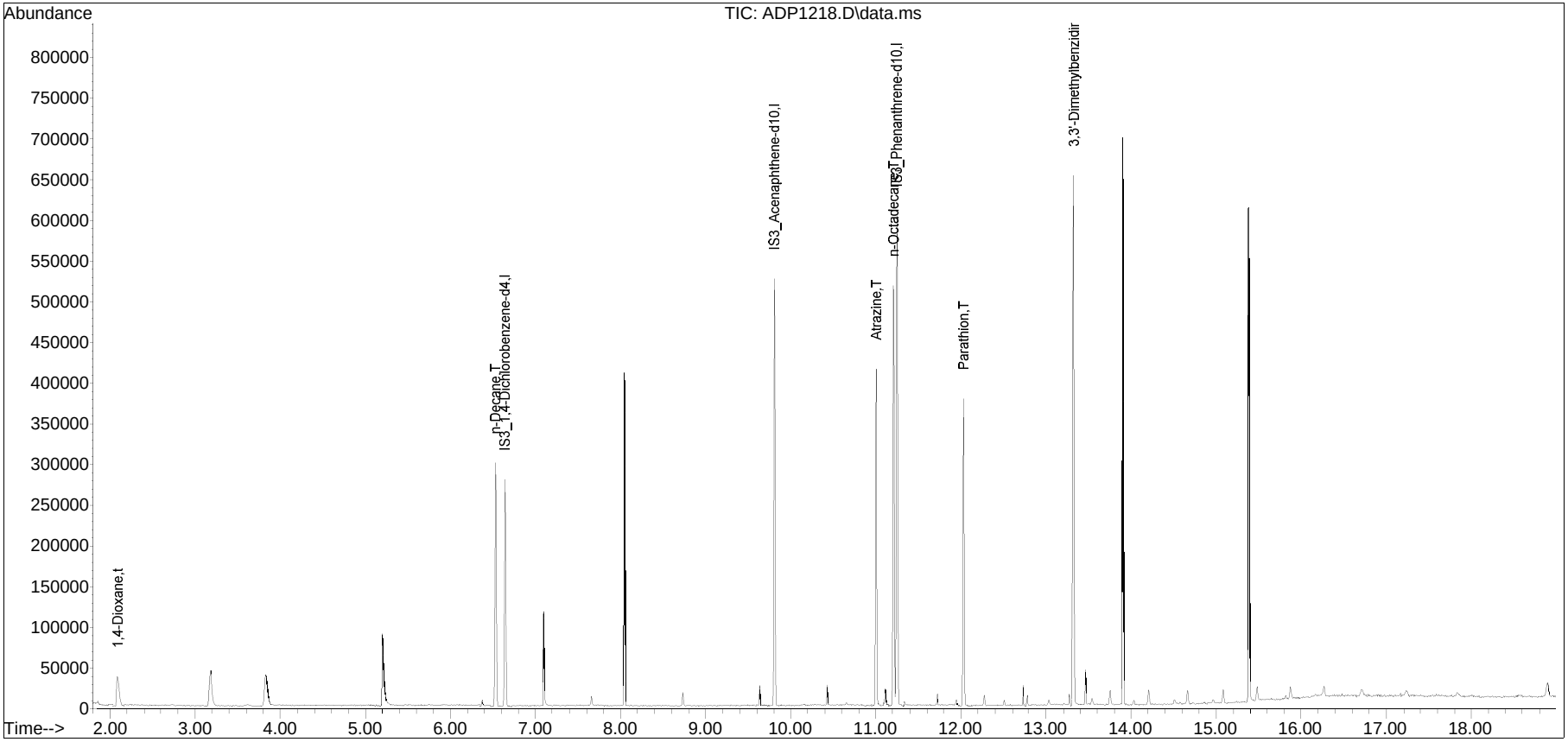
(#) = qualifier out of range (m) = manual integration (+) = signals summed

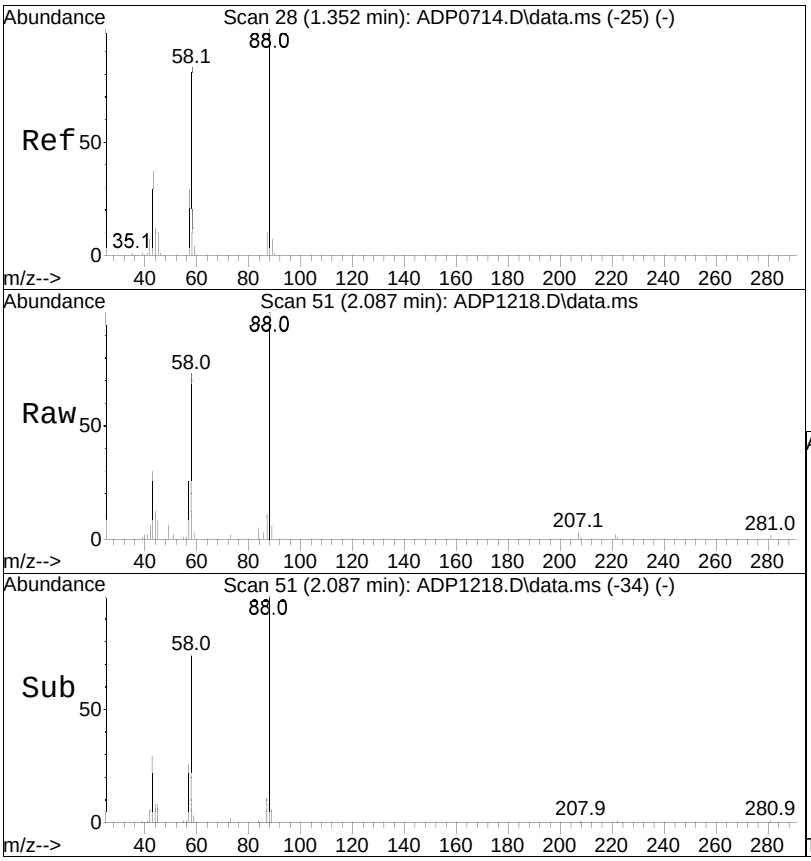
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241218RVT\
Data File : ADP1218.D
Acq On : 18 Dec 2024 11:07 pm
Operator : SV106:im
Sample : WG2011026-5,32,,ADP RVT CCV Lot # 11153
Misc : WG2011026,,ical21604
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Dec 18 23:36:40 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:16 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

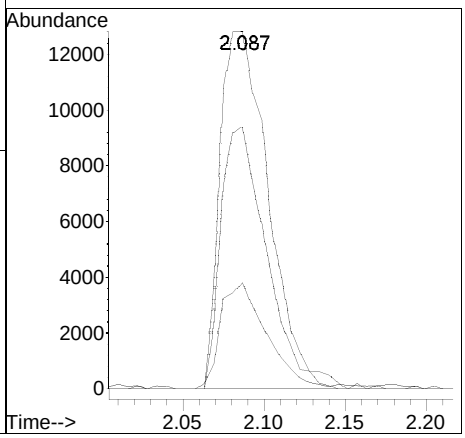


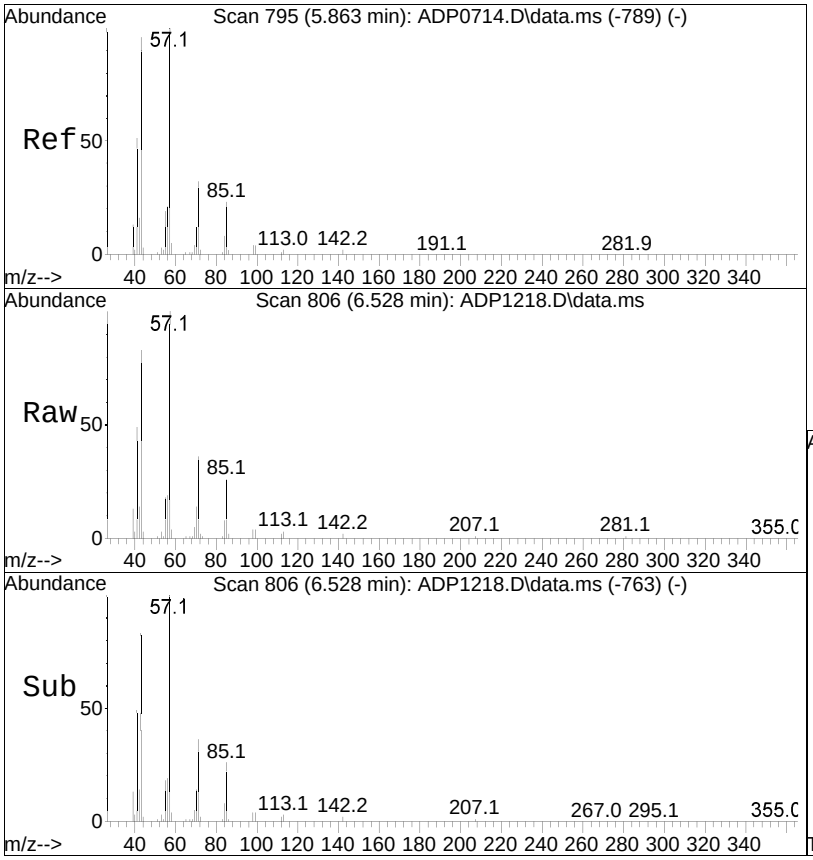


#33
1,4-Dioxane
Concen: 4.38 ug/ml
RT: 2.087 min Scan# 51
Delta R.T. 0.000 min
Lab File: ADP1218.D
Acq: 18 Dec 2024 11:07 pm

Tgt Ion: 88 Resp: 26686

Ion	Ratio	Lower	Upper
88	100		
58	67.6	44.8	67.2#
43	28.1	22.4	33.6

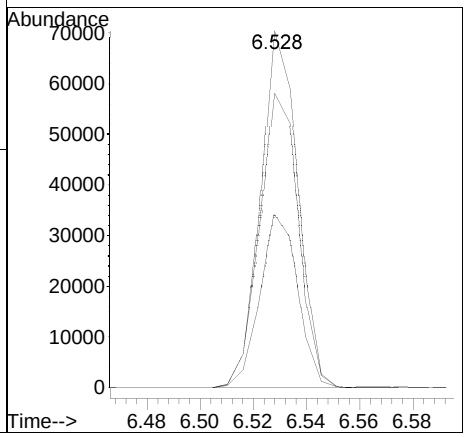


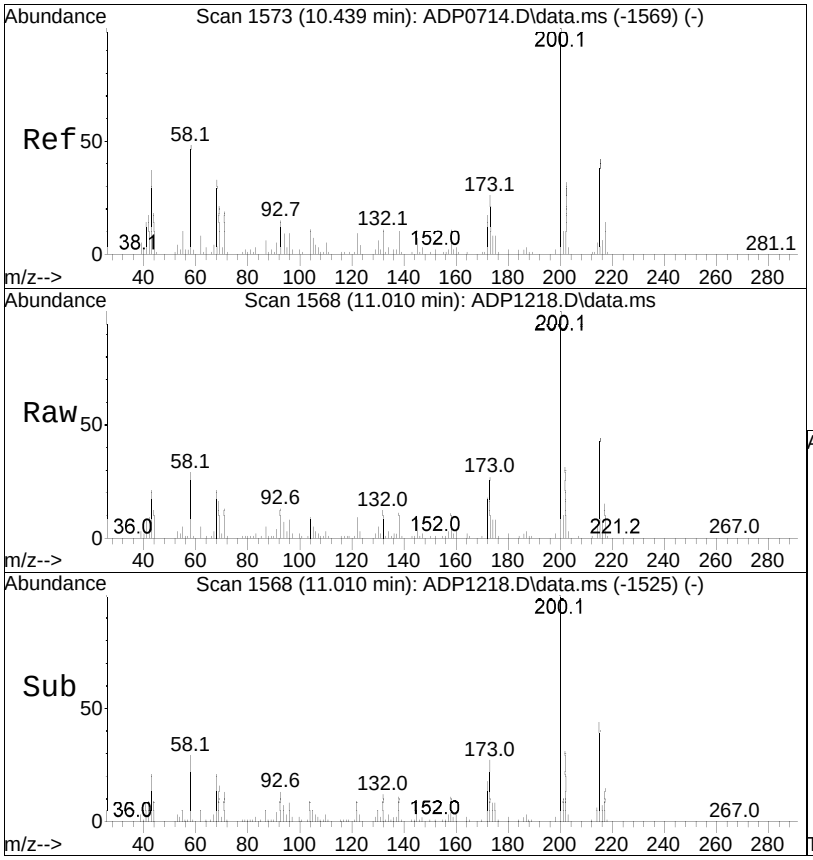


#34
n-Decane
Concen: 3.66 ug/ml
RT: 6.528 min Scan# 806
Delta R.T. 0.000 min
Lab File: ADP1218.D
Acq: 18 Dec 2024 11:07 pm

Tgt Ion: 57 Resp: 68135

Ion	Ratio	Lower	Upper
57	100		
43	86.1	0.2	0.2#
41	49.5	0.2	0.2#

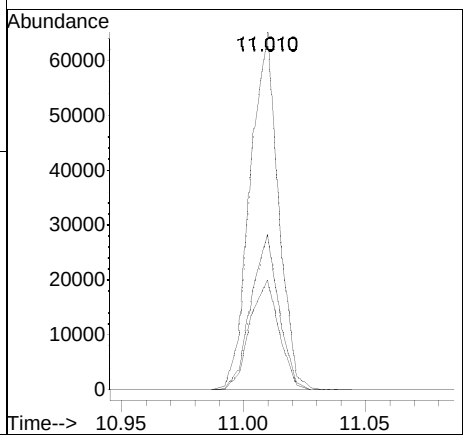


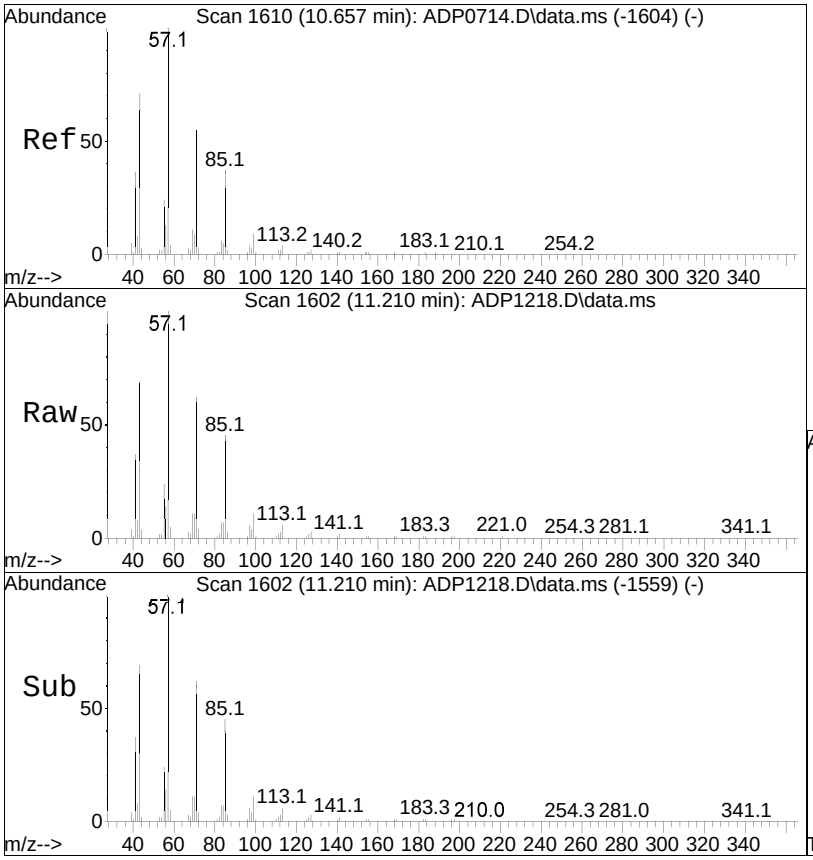


#87
Atrazine
Concen: 4.42 ug/ml
RT: 11.010 min Scan# 1568
Delta R.T. 0.000 min
Lab File: ADP1218.D
Acq: 18 Dec 2024 11:07 pm

Tgt Ion:200 Resp: 52243

Ion	Ratio	Lower	Upper
200	100		
202	31.7	25.8	38.6
215	42.6	40.2	60.4

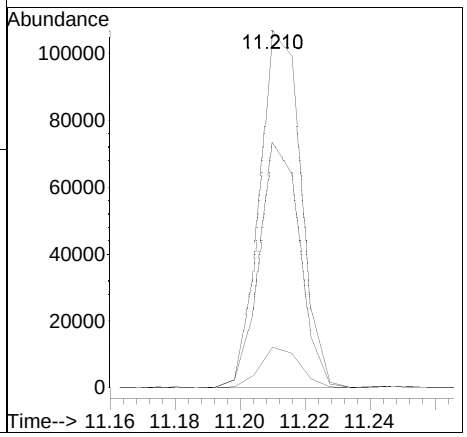


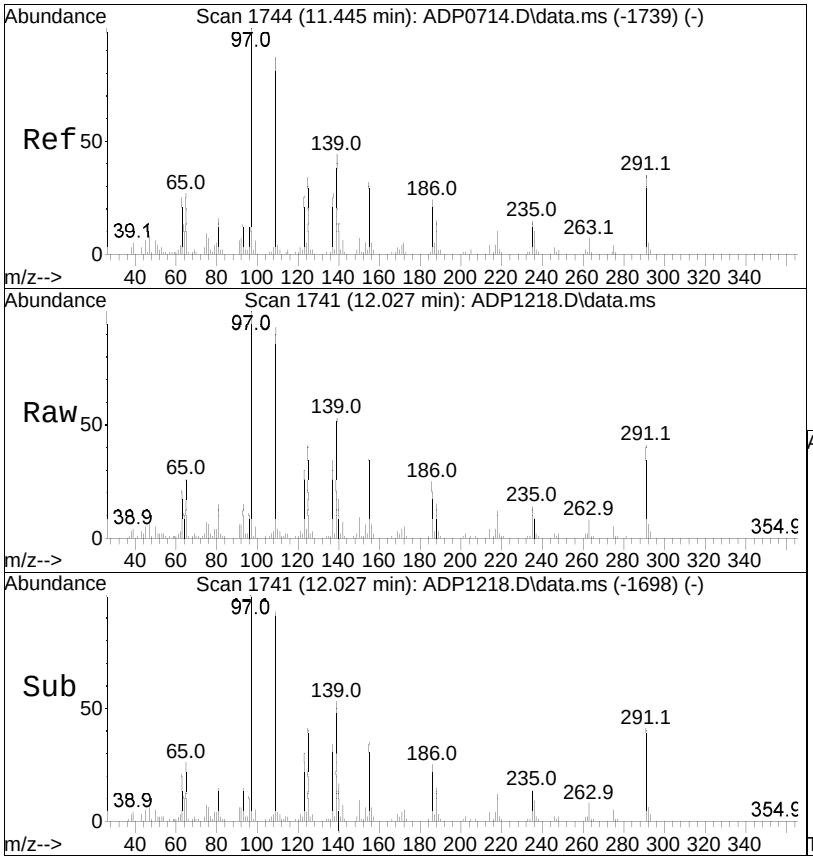


#101
n-Octadecane
Concen: 3.28 ug/ml
RT: 11.210 min Scan# 1602
Delta R.T. 0.000 min
Lab File: ADP1218.D
Acq: 18 Dec 2024 11:07 pm

Tgt Ion: 57 Resp: 94339

Ion	Ratio	Lower	Upper
57	100		
43	67.2	9.0	13.6#
70	10.9	0.2	0.2#

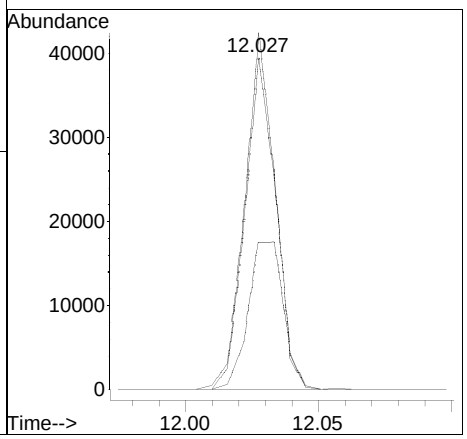


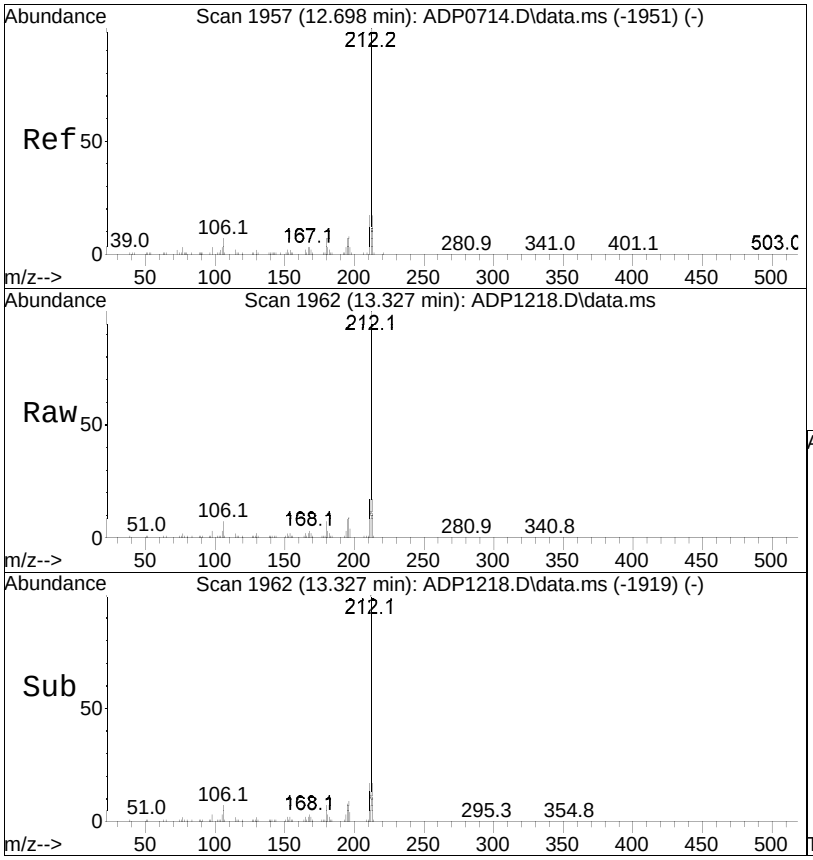


#102
Parathion
Concen: 4.50 ug/ml
RT: 12.027 min Scan# 1741
Delta R.T. 0.000 min
Lab File: ADP1218.D
Acq: 18 Dec 2024 11:07 pm

Tgt Ion:109 Resp: 31518

Ion	Ratio	Lower	Upper
109	100		
97	105.8	87.4	131.2
291	51.5	34.2	51.2#

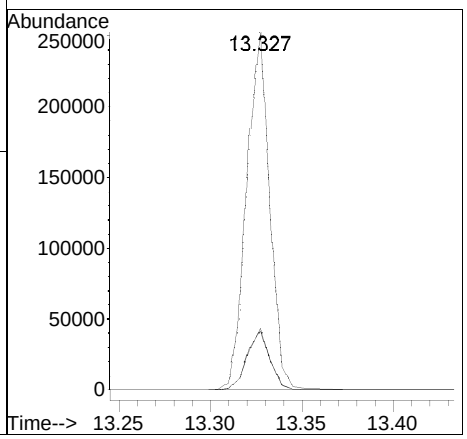




#103
3,3'-Dimethylbenzidine
Concen: 4.51 ug/ml
RT: 13.327 min Scan# 1962
Delta R.T. 0.000 min
Lab File: ADP1218.D
Acq: 18 Dec 2024 11:07 pm

Tgt Ion:212 Resp: 219234

Ion	Ratio	Lower	Upper
212	100		
211	16.6	12.9	19.3
213	16.6	13.2	19.8



Manual Integration Report

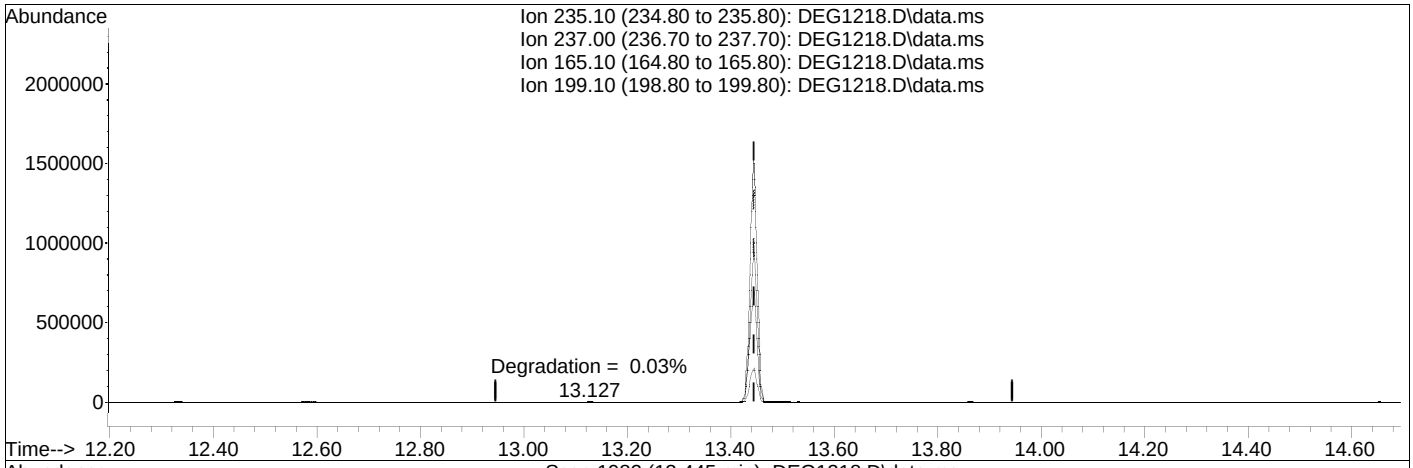
Data Path	: I:\8270\SV106\241218RVT\	QMethod	: FS241009SV106.m
Data File	: ADP1218.D	Operator	: SV106:im
Date Inj'd	: 12/18/2024 11:07 pm	Instrument	: SV 106
Sample	: WG2011026-5,32,,ADP RVT CC	Quant Date	: 12/18/2024 11:38 pm

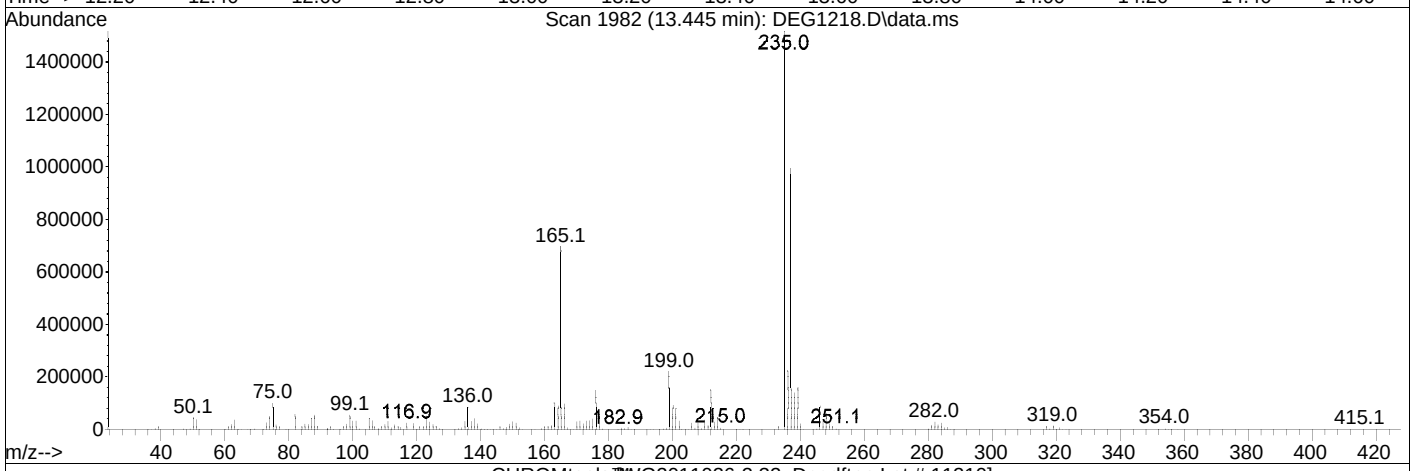
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\241218RVT\
Data File : DEG1218.D
Acq On : 18 Dec 2024 9:55 pm
Operator : SV106:im
Sample : WG2011026-2,32,,Degdftpp Lot # 11210
Misc : WG2011026,,ical21604
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 18 22:15:55 2024
Quant Method : I:\8270\SV106\241218RVT\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 22:17:44 2024
Response via : Initial Calibration





CHROMtools [WG2011026-2,32,,Degdftpp Lot # 11210]

(6) DDT (T)

13.445min (-0.000) 227.59

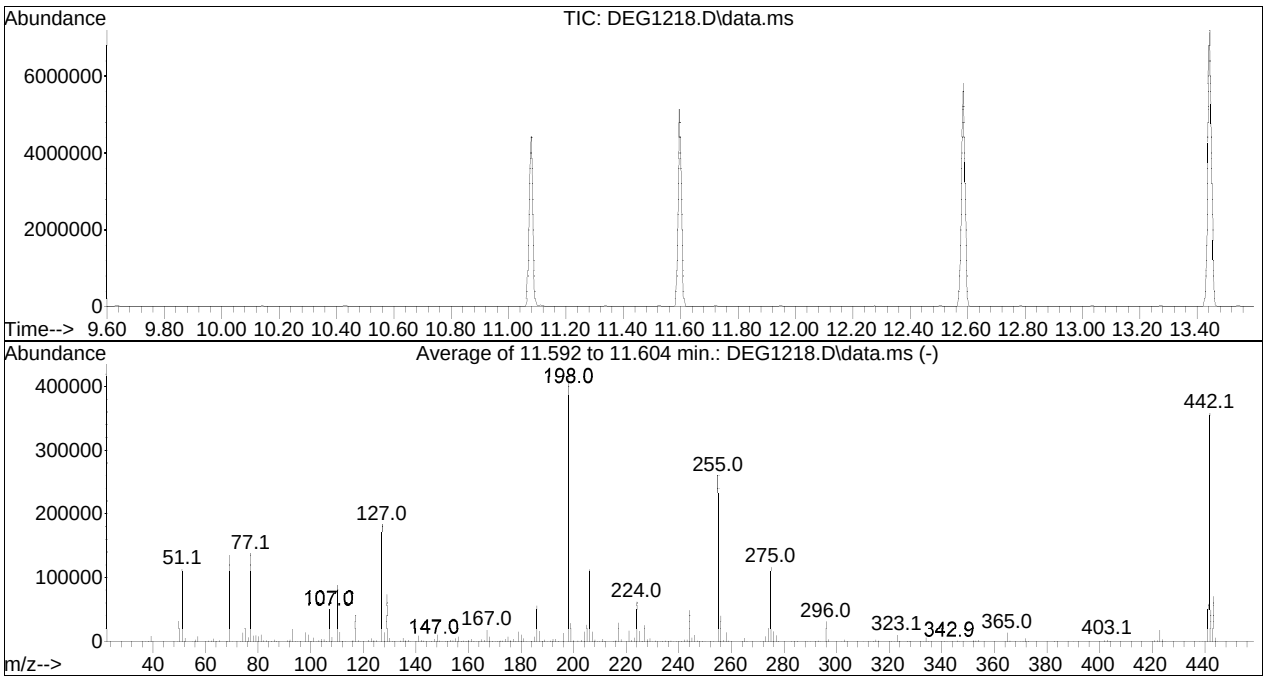
response 1387307

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.30	64.45
165.10	44.50	45.98
199.10	14.80	14.41

Data Path : I:\8270\SV106\241218RVT\
Data File : DEG1218.D
Acq On : 18 Dec 2024 9:55 pm
Operator : SV106: ASK
Sample : WG2011026-1,32,,Degdftpp Lot # 11210
Misc : WG2011026,,ical21604
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Dec 18 23:05:34 2024



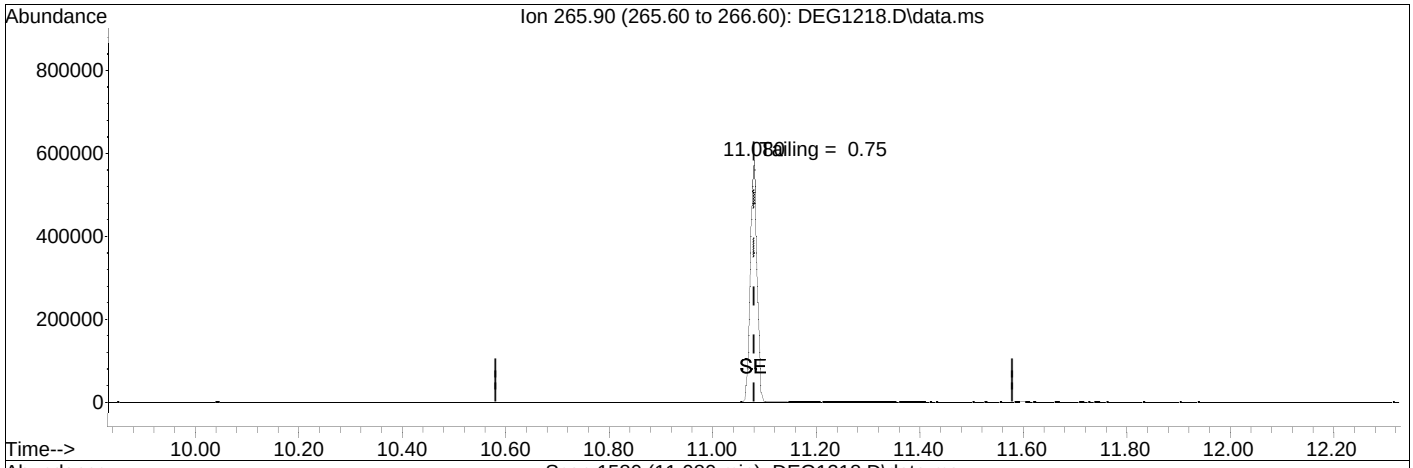
Spectrum Information: Average of 11.592 to 11.604 min.

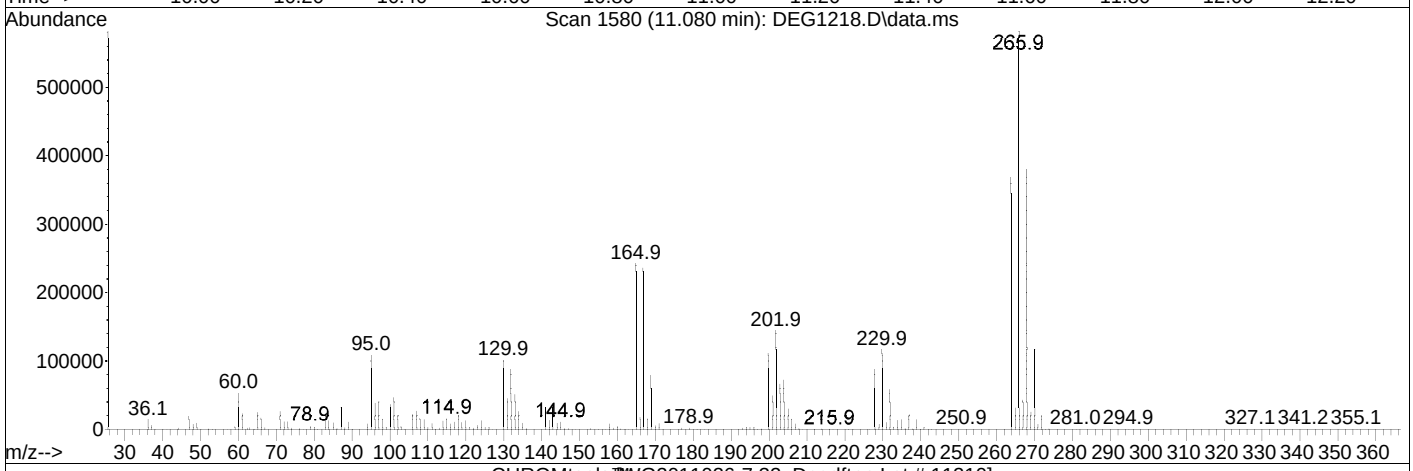
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	27.4	113344	PASS
68	69	0.00	2	1.1	1550	PASS
69	69	100	100	100.0	134853	PASS
70	69	0.00	2	0.5	607	PASS
127	198	10	80	44.3	183376	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	413888	PASS
199	198	5	9	6.8	28286	PASS
275	198	10	60	28.1	116104	PASS
365	198	1	100	3.3	13663	PASS
441	442	0.01	24	16.5	59013	PASS
442	198	50	100	86.6	358421	PASS
443	442	15	24	19.6	70115	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\241218RVT\
Data File : DEG1218.D
Acq On : 18 Dec 2024 9:55 pm
Operator : SV106:im
Sample : WG2011026-7,32,,Degdftpp Lot # 11210
Misc : WG2011026,,ical21604
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 18 22:15:55 2024
Quant Method : I:\8270\SV106\241218RVT\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 22:17:44 2024
Response via : Initial Calibration





CHROMtools [WG2011026-7,32,,Degdftpp Lot # 11210]

(1) Pentachlorophenol (T)

11.080min (+ 0.000) 236.67

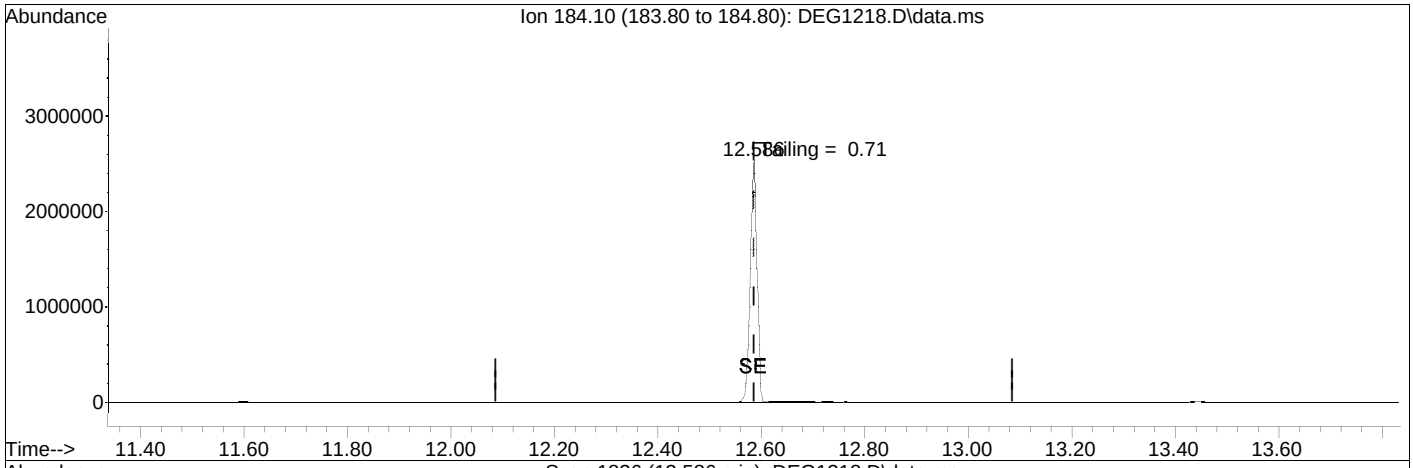
response 497091

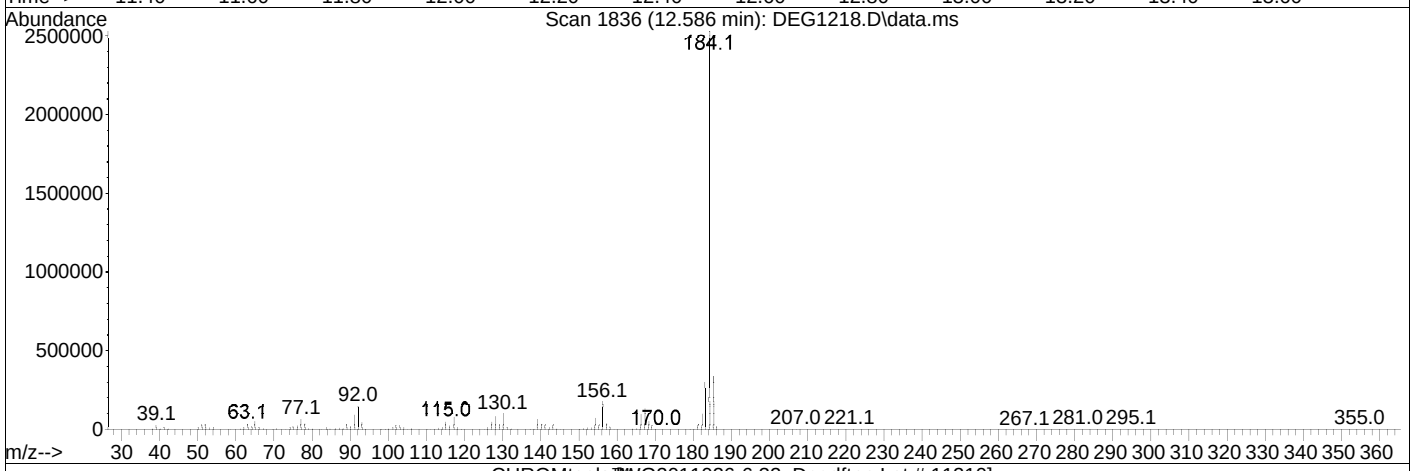
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\241218RVT\
Data File : DEG1218.D
Acq On : 18 Dec 2024 9:55 pm
Operator : SV106:im
Sample : WG2011026-6,32,,Degdftpp Lot # 11210
Misc : WG2011026,,ical21604
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 18 22:15:55 2024
Quant Method : I:\8270\SV106\241218RVT\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 22:17:44 2024
Response via : Initial Calibration





CHROMtools [WG2011026-6,32,,Degdftpp Lot # 11210]

(3) Benzidine (T)

12.586min (+ 0.000) 215.51

response 2193950

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\SV106\241218RVT\
Data File : 010761-1.D
Acq On : 19 Dec 2024 12:42 am
Operator : SV106:im
Sample : WG2010761-1,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 19 10:12:04 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241218RVT\ABN1218.D
: 2 - I:\8270\SV106\241218RVT\ADP1218.D
: 3 - I:\8270\SV106\241218RVT\AP91218.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.640	152	57323	4.000	ug/ml	0.00
Standard Area 1 = 49612			Recovery = 115.54%			
27) IS2_1,4-Dichlorobenzen...	6.640	152	57323	4.000	ug/ml	0.00
Standard Area 3 = 57665			Recovery = 99.41%			
32) IS3_1,4-Dichlorobenzen...	6.640	152	57323	4.000	ug/ml	0.00
Standard Area 2 = 50150			Recovery = 114.30%			
35) IS1_Naphthalene-d8	8.045	136	226145	4.000	ug/ml	0.00
Standard Area 1 = 183058			Recovery = 123.54%			
55) IS2_Naphthalene-d8	8.045	136	226145	4.000	ug/ml	0.00
Standard Area 3 = 207211			Recovery = 109.14%			
63) IS1_Acenaphthene-d10	9.804	164	133913	4.000	ug/ml	0.00
Standard Area 1 = 122903			Recovery = 108.96%			
83) IS2_Acenaphthene-d10	9.804	164	133913	4.000	ug/ml	0.00
Standard Area 3 = 120872			Recovery = 110.79%			
86) IS3_Acenaphthene-d10	9.804	164	133913	4.000	ug/ml	0.00
Standard Area 2 = 113815			Recovery = 117.66%			
88) IS1_Phenanthrene-d10	11.245	188	259300	4.000	ug/ml	0.00
Standard Area 1 = 229574			Recovery = 112.95%			
100) IS3_Phenanthrene-d10	11.245	188	259300	4.000	ug/ml	0.00
Standard Area 2 = 236979			Recovery = 109.42%			
104) IS1_Chrysene-d12	13.904	240	274033	4.000	ug/ml	0.00
Standard Area 1 = 264435			Recovery = 103.63%			
113) IS1_Perylene-d12	15.380	264	328810	4.000	ug/ml	0.00
Standard Area 1 = 304444			Recovery = 108.00%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.840	112	11856	0.665	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 33.25%			
7) Phenol-d6	6.269	99	10054	0.468	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 23.40%			
19) Nitrobenzene-d5	7.287	82	10019	0.514	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 51.40%			
46) 2-Fluorobiphenyl	9.163	172	27358	0.523	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 52.30%			
79) 2,4,6-Tribromophenol	10.575	330	6871	0.907	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 45.35%			

Data Path : I:\8270\SV106\241218RVT\
Data File : 010761-1.D
Acq On : 19 Dec 2024 12:42 am
Operator : SV106:im
Sample : WG2010761-1,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 19 10:12:04 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241218RVT\ABN1218.D
: 2 - I:\8270\SV106\241218RVT\ADP1218.D
: 3 - I:\8270\SV106\241218RVT\AP91218.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	12.833	244	38285	0.550	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 55.00%

Target Compounds				Qvalue
6) 2-Chlorophenol	0.000	0	N.D.	
8) Phenol	0.000	0	N.D.	
14) Bis(2-chloroisopropyl)...	0.000	0	N.D.	
15) 2-Methylphenol	0.000	0	N.D.	
17) n-Nitrosodi-n-propylamine	0.000	0	N.D.	d
18) 3-Methylphenol/4-Methy...	0.000	0	N.D.	
20) Nitrobenzene	0.000	0	N.D.	
21) Isophorone	0.000	0	N.D.	
22) 2-Nitrophenol	0.000	0	N.D.	
23) 2,4-Dimethylphenol	0.000	0	N.D.	
24) Bis(2-chloroethoxy)met...	0.000	0	N.D.	
25) 2,4-Dichlorophenol	0.000	0	N.D.	
28) Benzaldehyde	0.000	0	N.D.	
29) Acetophenone	0.000	0	N.D.	
38) 4-Chloroaniline	0.000	0	N.D.	
40) p-Chloro-m-cresol	0.000	0	N.D.	
43) Hexachlorocyclopentadiene	0.000	0	N.D.	
44) 2,4,6-Trichlorophenol	0.000	0	N.D.	
45) 2,4,5-Trichlorophenol	0.000	0	N.D.	
48) 2-Nitroaniline	0.000	0	N.D.	
51) Dimethyl phthalate	0.000	0	N.D.	
53) 2,6-Dinitrotoluene	0.000	0	N.D.	d
60) Caprolactam	0.000	0	N.D.	
61) 1,2,4,5-Tetrachloroben...	0.000	0	N.D.	
62) Biphenyl	0.000	0	N.D.	
64) 3-Nitroaniline	0.000	0	N.D.	
66) 2,4-Dinitrophenol	0.000	0	N.D.	
67) Dibenzofuran	0.000	0	N.D.	
68) 2,4-Dinitrotoluene	0.000	0	N.D.	d
69) 4-Nitrophenol	0.000	0	N.D.	d
72) Diethyl phthalate	0.000	0	N.D.	
74) 4-Chlorophenyl phenyl ...	0.000	0	N.D.	
75) 4-Nitroaniline	0.000	0	N.D.	

Data Path : I:\8270\SV106\241218RVT\
Data File : 010761-1.D
Acq On : 19 Dec 2024 12:42 am
Operator : SV106:im
Sample : WG2010761-1,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 19 10:12:04 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241218RVT\ABN1218.D
: 2 - I:\8270\SV106\241218RVT\ADP1218.D
: 3 - I:\8270\SV106\241218RVT\AP91218.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.		
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
87) Atrazine	0.000		0	N.D.		
91) Carbazole	0.000		0	N.D.		
92) Di-n-butylphthalate	0.000		0	N.D. d		
97) Butyl benzyl phthalate	0.000		0	N.D.		
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
108) Bis(2-ethylhexyl)phtha...	13.998	149	1476	0.026	ug/ml#	52
109) Di-n-octylphthalate	0.000		0	N.D. d		

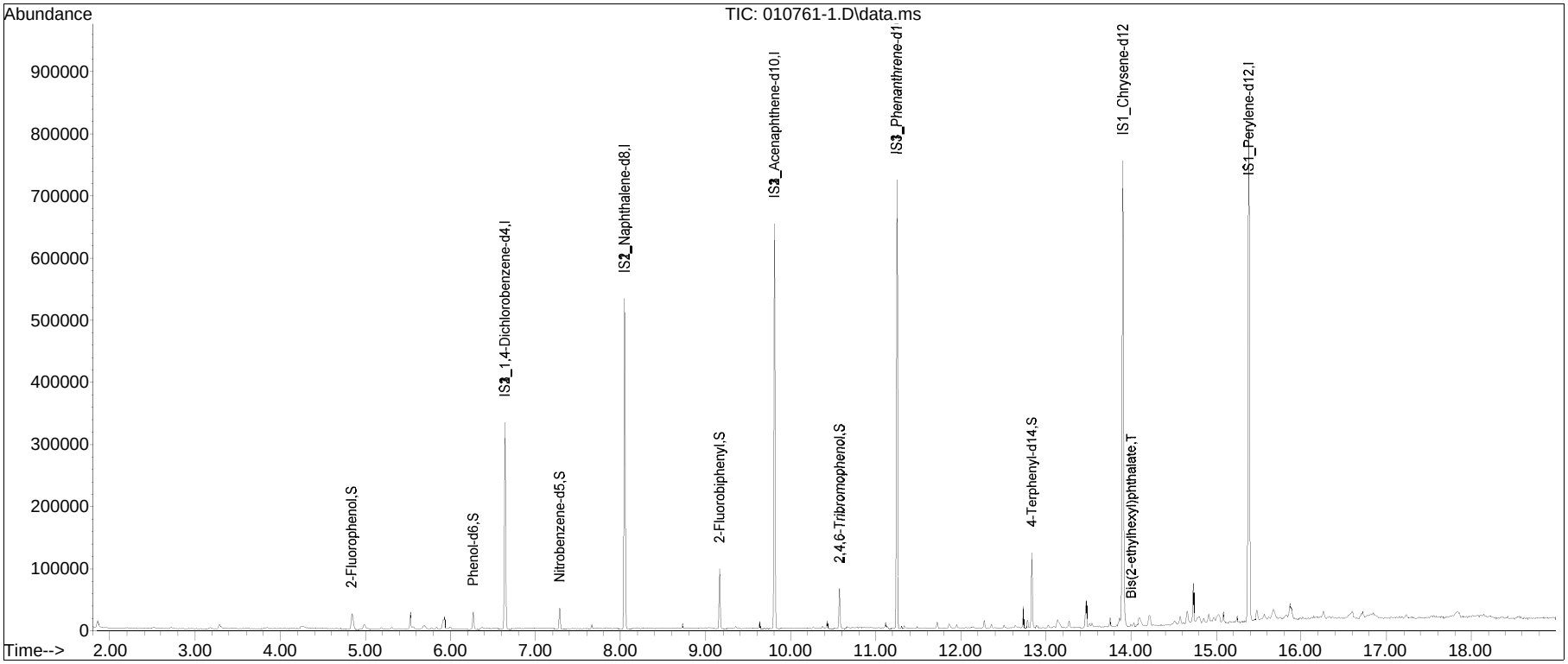
(#) = qualifier out of range (m) = manual integration (+) = signals summed

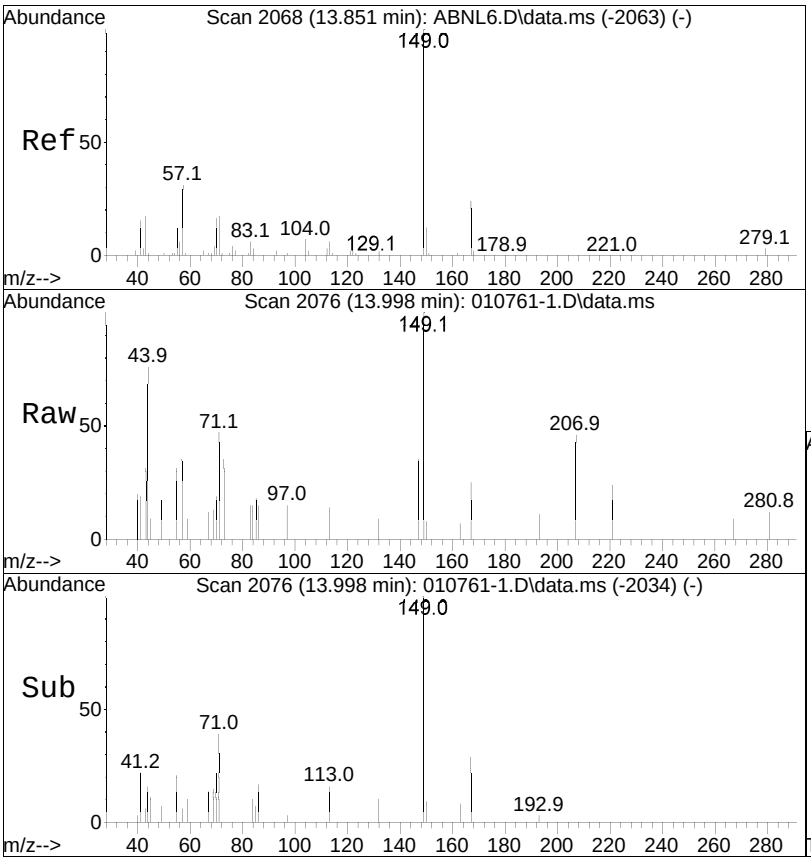
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241218RVT\
Data File : 010761-1.D
Acq On : 19 Dec 2024 12:42 am
Operator : SV106:im
Sample : WG2010761-1,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 19 10:12:04 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:14 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MARVT\AP91218.D•

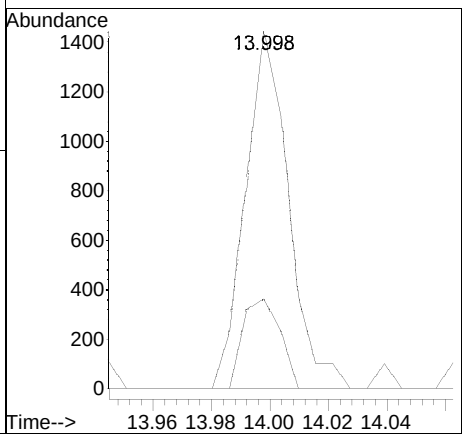




#108
Bis(2-ethylhexyl)phthalate
Concen: 0.03 ug/ml
RT: 13.998 min Scan# 2076
Delta R.T. -0.006 min
Lab File: 010761-1.D
Acq: 19 Dec 2024 12:42 am

Tgt Ion:149 Resp: 1476

Ion	Ratio	Lower	Upper
149	100		
167	0.0	22.1	33.1#
279	0.0	3.0	4.4#



Manual Integration Report

Data Path	: I:\8270\SV106\241218RVT\	QMethod	: FS241009SV106.m
Data File	: 010761-1.D	Operator	: SV106:im
Date Inj'd	: 12/19/2024 12:42 am	Instrument	: SV 106
Sample	: WG2010761-1,32,,ASK	Quant Date	: 12/19/2024 1:01 am

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

LSC Area Percent Report

Data Path : I:\8270\SV106\241218RVT\
Data File : 010761-1.D
Acq On : 19 Dec 2024 12:42 am
Operator : SV106:im
Sample : WG2010761-1,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Title : Semivolatiles by GC/MS by modified 8270

Signal : TIC: 010761-1.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.852	4	11	20	rBV2	11234	24153	2.70%	0.514%
2	3.287	250	255	263	rBV6	6972	14202	1.59%	0.302%
3	4.840	515	519	527	rVB	25658	38866	4.35%	0.827%
4	4.987	538	544	554	rBV4	7952	15466	1.73%	0.329%
5	5.528	631	636	640	rBV3	26395	34928	3.91%	0.743%
6	5.687	654	663	665	rBV7	5880	9641	1.08%	0.205%
7	5.910	696	701	702	rBV	14401	16221	1.81%	0.345%
8	5.928	702	704	708	rVB2	19494	20680	2.31%	0.440%
9	6.269	758	762	768	rVB	28615	28358	3.17%	0.603%
10	6.640	821	825	831	rVB	332835	313648	35.07%	6.672%
11	7.287	930	935	938	rBV	34406	32367	3.62%	0.689%
12	8.045	1060	1064	1068	rBV	532240	444008	49.65%	9.445%
13	9.163	1250	1254	1258	rVB	96636	76221	8.52%	1.621%
14	9.633	1331	1334	1337	rVB2	11038	9086	1.02%	0.193%
15	9.804	1360	1363	1367	rVB	651447	562415	62.89%	11.964%
16	10.428	1466	1469	1472	rBV2	11612	9455	1.06%	0.201%
17	10.575	1490	1494	1498	rBV	63923	53830	6.02%	1.145%
18	11.245	1604	1608	1612	rBV	722195	627994	70.22%	13.359%
19	11.716	1685	1688	1692	rVB	10329	10903	1.22%	0.232%
20	11.857	1709	1712	1719	rBV6	7279	10099	1.13%	0.215%
21	12.274	1777	1783	1786	rBV2	12794	12501	1.40%	0.266%
22	12.727	1854	1860	1865	rVB	34850	30317	3.39%	0.645%
23	12.780	1866	1869	1872	rBV2	12655	13893	1.55%	0.296%
24	12.833	1875	1878	1882	rVV	120299	103138	11.53%	2.194%
25	13.139	1926	1930	1938	rBV3	12873	27458	3.07%	0.584%
26	13.269	1946	1952	1957	rBV3	10979	13550	1.52%	0.288%
27	13.469	1979	1986	1990	rBV2	43597	59278	6.63%	1.261%
28	13.745	2028	2033	2037	rBV2	14546	18575	2.08%	0.395%

LSC Area Percent Report

Data Path : I:\8270\SV106\241218RVT\
Data File : 010761-1.D
Acq On : 19 Dec 2024 12:42 am
Operator : SV106:im
Sample : WG2010761-1,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Title : Semivolatiles by GC/MS by modified 8270

29	13.869	2050	2054	2056	rBV4	13010	16665	1.86%	0.355%
30	13.904	2056	2060	2068	rVB	750230	757889	84.75%	16.123%
31	14.104	2084	2094	2102	rBV6	14231	39045	4.37%	0.831%
32	14.216	2108	2113	2119	rBV6	16741	30202	3.38%	0.642%
33	14.574	2167	2174	2178	rBV3	12532	17530	1.96%	0.373%
34	14.651	2183	2187	2192	rBV3	20794	33034	3.69%	0.703%
35	14.733	2197	2201	2204	rVV	60723	59826	6.69%	1.273%
36	14.851	2217	2221	2225	rBV6	7534	9921	1.11%	0.211%
37	14.910	2227	2231	2234	rBV2	13549	15728	1.76%	0.335%
38	14.963	2238	2240	2244	rVV4	7154	9963	1.11%	0.212%
39	15.021	2244	2250	2255	rVB7	11915	28059	3.14%	0.597%
40	15.080	2256	2260	2263	rBV2	15036	16380	1.83%	0.348%
41	15.245	2285	2288	2290	rBV2	9172	8997	1.01%	0.191%
42	15.380	2306	2311	2318	rBV	800398	894269	100.00%	19.024%
43	15.480	2325	2328	2333	rVB4	15972	23000	2.57%	0.489%
44	15.568	2341	2343	2349	rVB7	8034	10044	1.12%	0.214%
45	15.674	2356	2361	2367	rVB7	13102	25241	2.82%	0.537%
46	15.868	2390	2394	2406	rVB7	23661	54945	6.14%	1.169%
47	16.268	2458	2462	2468	rVB5	12279	18765	2.10%	0.399%

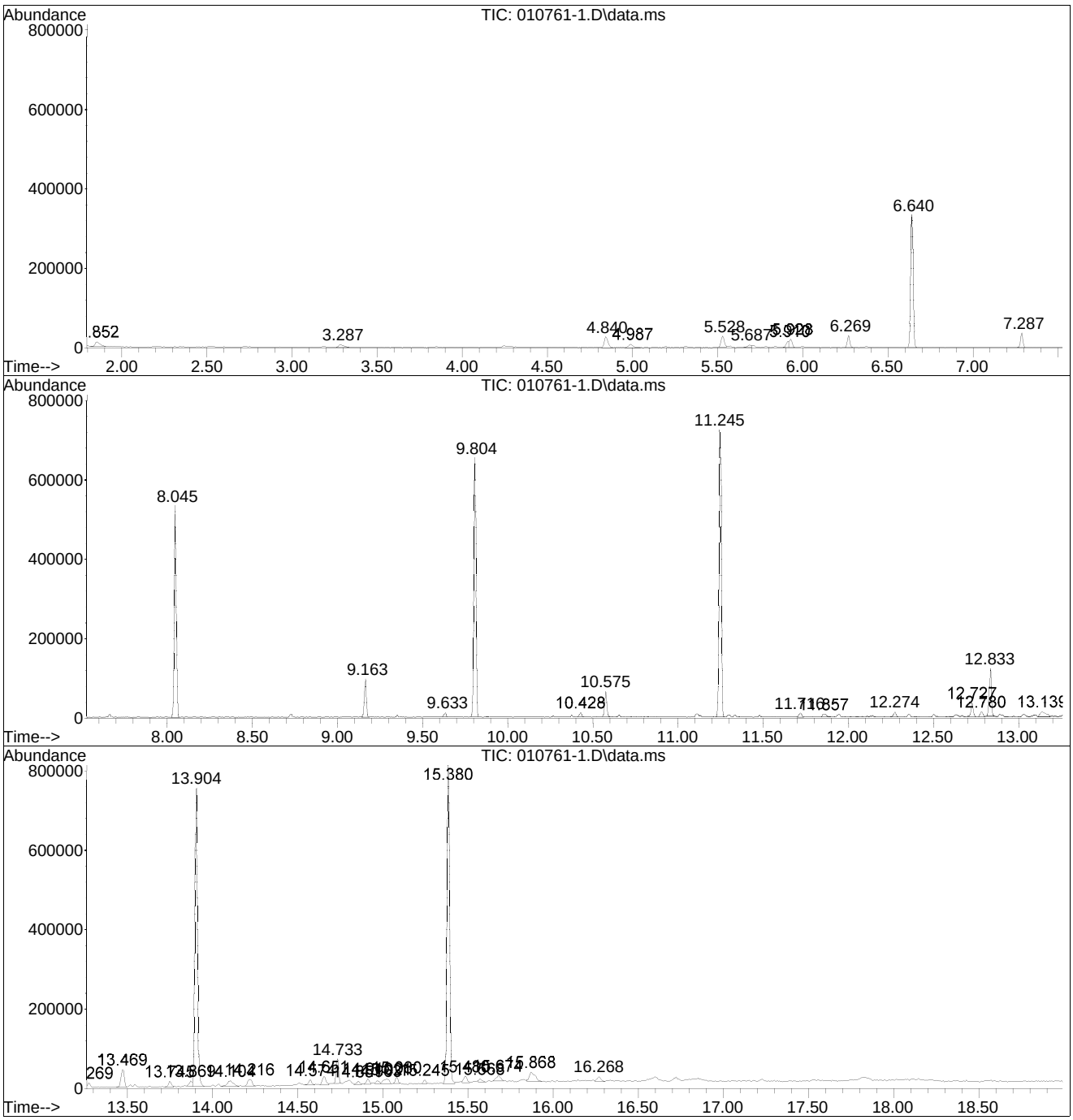
Sum of corrected areas: 4700754

LSC Report - Integrated Chromatogram

Data Path : I:\8270\SV106\241218RVT\
Data File : 010761-1.D
Acq On : 19 Dec 2024 12:42 am
Operator : SV106:im
Sample : WG2010761-1,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 4 Sample Multiplier: 1

Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P



Data Path : I:\8270\SV106\241218RVT\
Data File : 010761-1.D
Acq On : 19 Dec 2024 12:42 am
Operator : SV106:im
Sample : WG2010761-1,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 4 Sample Multiplier: 1

Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

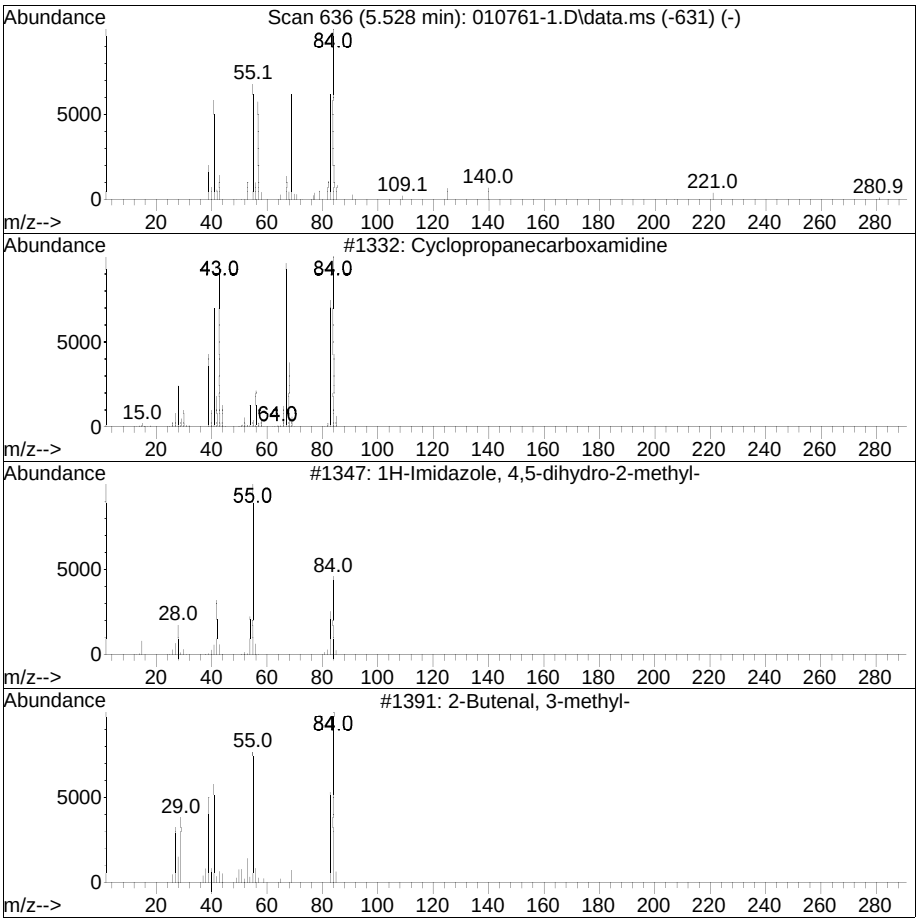
TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

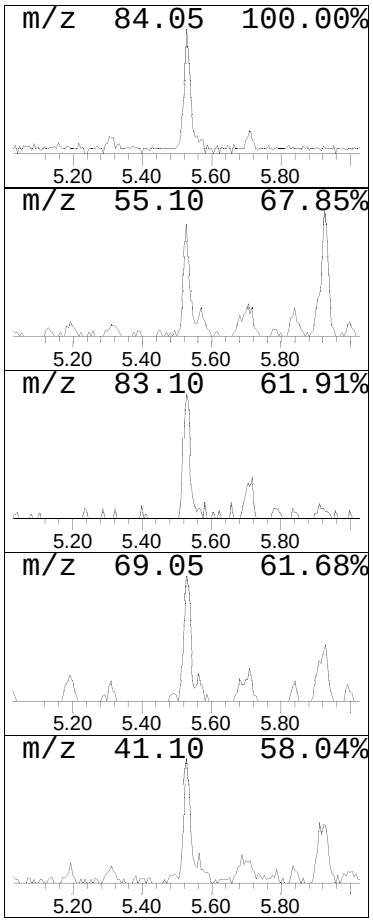
****

Peak Number 1 Unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.528	0.45 ug/ml	34928	IS2_1,4-Dichlorobenzene-d4	6.640

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopropanecarboxamidine	84	C4H8N2	054070-74-5	72
2	1H-Imidazole, 4,5-dihydro-2-methyl-	84	C4H8N2	000534-26-9	64
3	2-Butenal, 3-methyl-	84	C5H8O	000107-86-8	59
4	3,6,6-Trimethyl-cyclohex-2-enol	140	C9H16O	073741-62-5	47
5	2-Butenal, 2-methyl-	84	C5H8O	001115-11-3	46





Tentatively Identified Compound (LSC) summary

Data Path : I:\8270\SV106\241218RVT\
Data File : 010761-1.D
Acq On : 19 Dec 2024 12:42 am
Operator : SV106:im
Sample : WG2010761-1,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 4 Sample Multiplier: 1

Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	5.528	0.4	ug/ml	34928	1	6.640	313648	4.0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241218RVT\
Data File : 010761-2.D
Acq On : 19 Dec 2024 1:05 am
Operator : SV106:im
Sample : WG2010761-2,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 19 10:14:26 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241218RVT\ABN1218.D
: 2 - I:\8270\SV106\241218RVT\ADP1218.D
: 3 - I:\8270\SV106\241218RVT\AP91218.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.639	152	63456	4.000	ug/ml	0.00
Standard Area 1 = 49612			Recovery = 127.90%			
27) IS2_1,4-Dichlorobenzen...	6.639	152	63456	4.000	ug/ml	0.00
Standard Area 3 = 57665			Recovery = 110.04%			
32) IS3_1,4-Dichlorobenzen...	6.639	152	63456	4.000	ug/ml	0.00
Standard Area 2 = 50150			Recovery = 126.53%			
35) IS1_Naphthalene-d8	8.045	136	238341	4.000	ug/ml	0.00
Standard Area 1 = 183058			Recovery = 130.20%			
55) IS2_Naphthalene-d8	8.045	136	238341	4.000	ug/ml	0.00
Standard Area 3 = 207211			Recovery = 115.02%			
63) IS1_Acenaphthene-d10	9.804	164	144128	4.000	ug/ml	0.00
Standard Area 1 = 122903			Recovery = 117.27%			
83) IS2_Acenaphthene-d10	9.804	164	144128	4.000	ug/ml	0.00
Standard Area 3 = 120872			Recovery = 119.24%			
86) IS3_Acenaphthene-d10	9.804	164	144128	4.000	ug/ml	0.00
Standard Area 2 = 113815			Recovery = 126.63%			
88) IS1_Phenanthrene-d10	11.245	188	288611	4.000	ug/ml	0.00
Standard Area 1 = 229574			Recovery = 125.72%			
100) IS3_Phenanthrene-d10	11.245	188	288611	4.000	ug/ml	0.00
Standard Area 2 = 236979			Recovery = 121.79%			
104) IS1_Chrysene-d12	13.904	240	320038	4.000	ug/ml	0.00
Standard Area 1 = 264435			Recovery = 121.03%			
113) IS1_Perylene-d12	15.380	264	364602	4.000	ug/ml	0.00
Standard Area 1 = 304444			Recovery = 119.76%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.851	112	16326	0.827	ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 41.35%			
7) Phenol-d6	6.269	99	15137	0.637	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 31.85%			
19) Nitrobenzene-d5	7.286	82	12375	0.574	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 57.40%			
46) 2-Fluorobiphenyl	9.163	172	32887	0.596	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 59.60%			
79) 2,4,6-Tribromophenol	10.575	330	10774	1.321	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 66.05%			

Data Path : I:\8270\SV106\241218RVT\
Data File : 010761-2.D
Acq On : 19 Dec 2024 1:05 am
Operator : SV106:im
Sample : WG2010761-2,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 19 10:14:26 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241218RVT\ABN1218.D
: 2 - I:\8270\SV106\241218RVT\ADP1218.D
: 3 - I:\8270\SV106\241218RVT\AP91218.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	12.833	244	55665	0.719	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 71.90%

Target Compounds						Qvalue
6) 2-Chlorophenol	6.387	128	23797	1.099	ug/ml#	88
8) Phenol	6.287	94	16058	0.651	ug/ml	96
14) Bis(2-chloroisopropyl)...	7.010	45	24773	0.775	ug/ml#	29
15) 2-Methylphenol	7.004	108	19696	1.105	ug/ml	99
17) n-Nitrosodi-n-propylamine	7.157	70	16505	1.107	ug/ml	96
18) 3-Methylphenol/4-Methy...	7.181	108	20474	1.053	ug/ml	97
20) Nitrobenzene	7.304	77	23441	1.064	ug/ml	93
21) Isophorone	7.581	82	43688	1.140	ug/ml	98
22) 2-Nitrophenol	7.657	139	13475	1.192	ug/ml#	84
23) 2,4-Dimethylphenol	7.751	107	14442	0.814	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.845	93	29215	1.141	ug/ml#	96
25) 2,4-Dichlorophenol	7.922	162	23965	1.209	ug/ml#	93
28) Benzaldehyde	6.092	105	19954	1.327	ug/ml	90
29) Acetophenone	7.128	105	37905	1.307	ug/ml#	81
38) 4-Chloroaniline	8.145	65	5656M3	0.749	ug/ml	
40) p-Chloro-m-cresol	8.663	107	23284	1.319	ug/ml	93
43) Hexachlorocyclopentadiene	8.957	237	9345	0.599	ug/ml	98
44) 2,4,6-Trichlorophenol	9.075	196	20124	1.227	ug/ml	97
45) 2,4,5-Trichlorophenol	9.104	196	22609	1.332	ug/ml	96
48) 2-Nitroaniline	9.369	138	18906	1.421	ug/ml#	77
51) Dimethyl phthalate	9.575	163	76687	1.407	ug/ml	99
53) 2,6-Dinitrotoluene	9.616	165	15687	1.416	ug/ml#	71
60) Caprolactam	8.475	55	4334	0.496	ug/ml#	64
61) 1,2,4,5-Tetrachloroben...	8.957	216	26512	1.107	ug/ml	98
62) Biphenyl	9.257	154	64591	1.195	ug/ml	99
64) 3-Nitroaniline	9.775	138	15594	1.340	ug/ml	86
66) 2,4-Dinitrophenol	9.875	184	7163	1.973	ug/ml#	88
67) Dibenzofuran	10.010	168	82765	1.227	ug/ml	97
68) 2,4-Dinitrotoluene	10.004	165	22144	1.466	ug/ml	83
69) 4-Nitrophenol	9.957	65	7646	0.888	ug/ml#	66
72) Diethyl phthalate	10.269	149	76455	1.398	ug/ml	98
74) 4-Chlorophenyl phenyl ...	10.357	204	34132	1.262	ug/ml	90
75) 4-Nitroaniline	10.363	138	17625	1.488	ug/ml#	73

Data Path : I:\8270\SV106\241218RVT\
Data File : 010761-2.D
Acq On : 19 Dec 2024 1:05 am
Operator : SV106:im
Sample : WG2010761-2,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 19 10:14:26 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241218RVT\ABN1218.D
: 2 - I:\8270\SV106\241218RVT\ADP1218.D
: 3 - I:\8270\SV106\241218RVT\AP91218.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) 4,6-Dinitro-o-cresol	10.398	198	13164	1.542	ug/ml#	55
77) NDPA/DPA	10.475	169	63392	1.395	ug/ml	98
80) 4-Bromophenyl phenyl e...	10.827	248	21685	1.295	ug/ml#	83
87) Atrazine	11.010	200	21368	1.429	ug/ml	96
91) Carbazole	11.486	167	104040	1.368	ug/ml	98
92) Di-n-butylphthalate	11.869	149	134395	1.412	ug/ml	99
97) Butyl benzyl phthalate	13.357	149	59919	1.498	ug/ml#	82
106) 3,3'-Dichlorobenzidine	13.886	252	54676	1.508	ug/ml#	96
108) Bis(2-ethylhexyl)phtha...	13.998	149	96679	1.459	ug/ml#	94
109) Di-n-octylphthalate	14.686	149	163292	1.486	ug/ml#	68

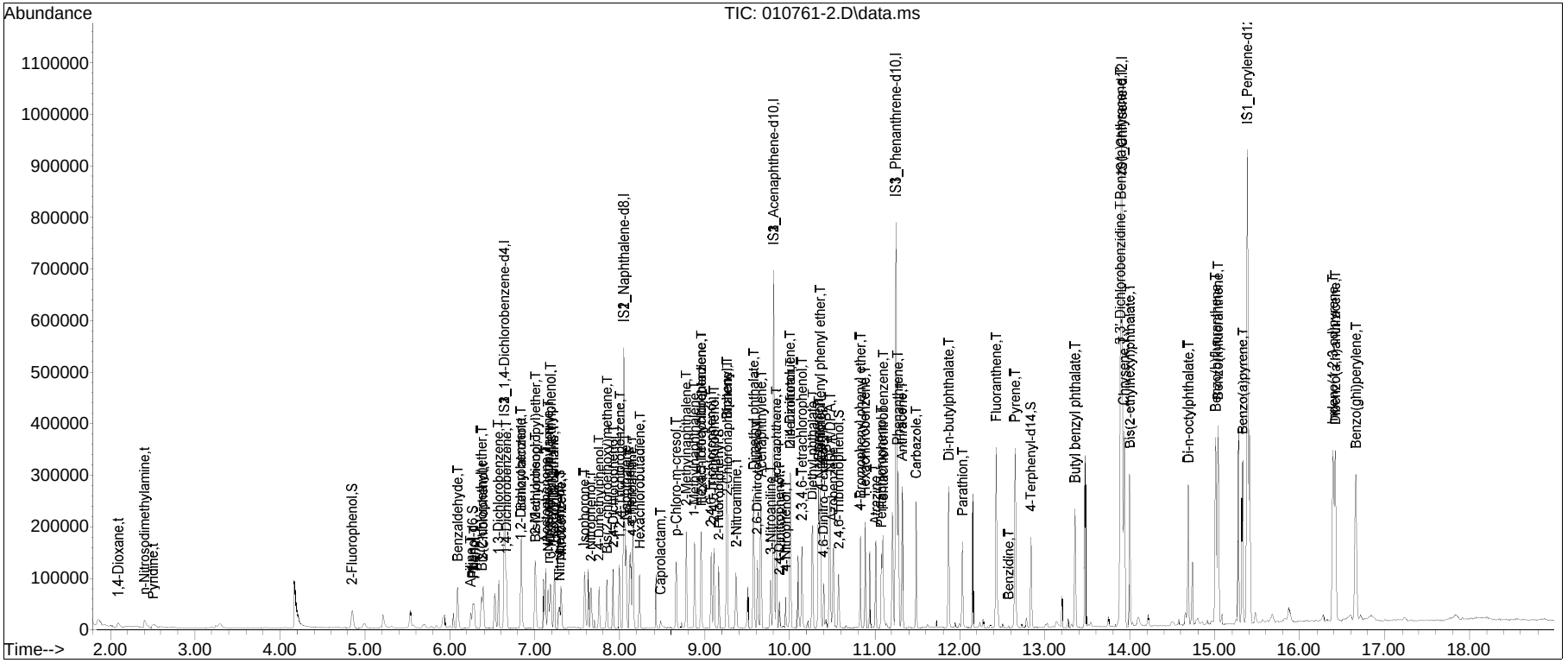
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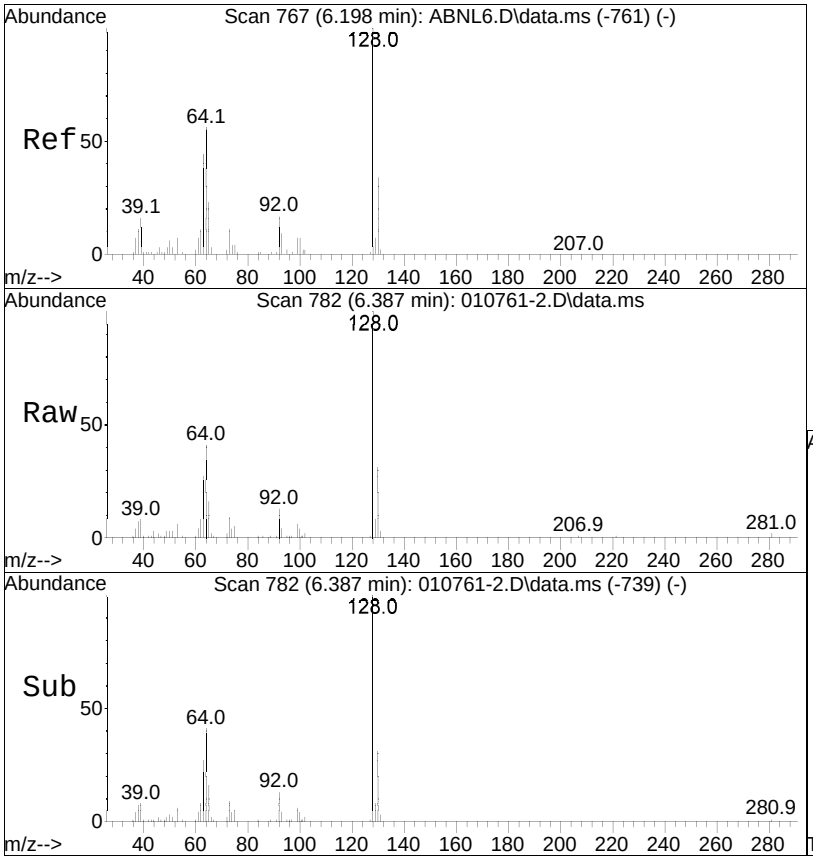
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241218RVT\
Data File : 010761-2.D
Acq On : 19 Dec 2024 1:05 am
Operator : SV106:im
Sample : WG2010761-2,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 19 10:14:26 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:14 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MARVT\AP91218.D•

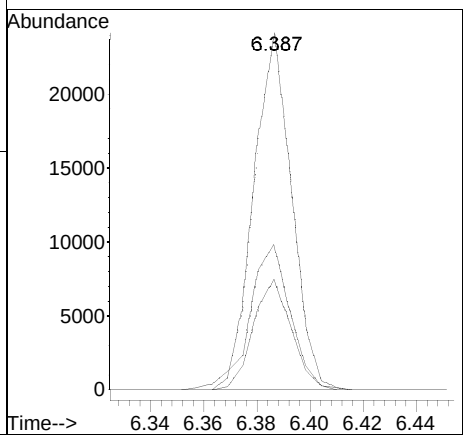


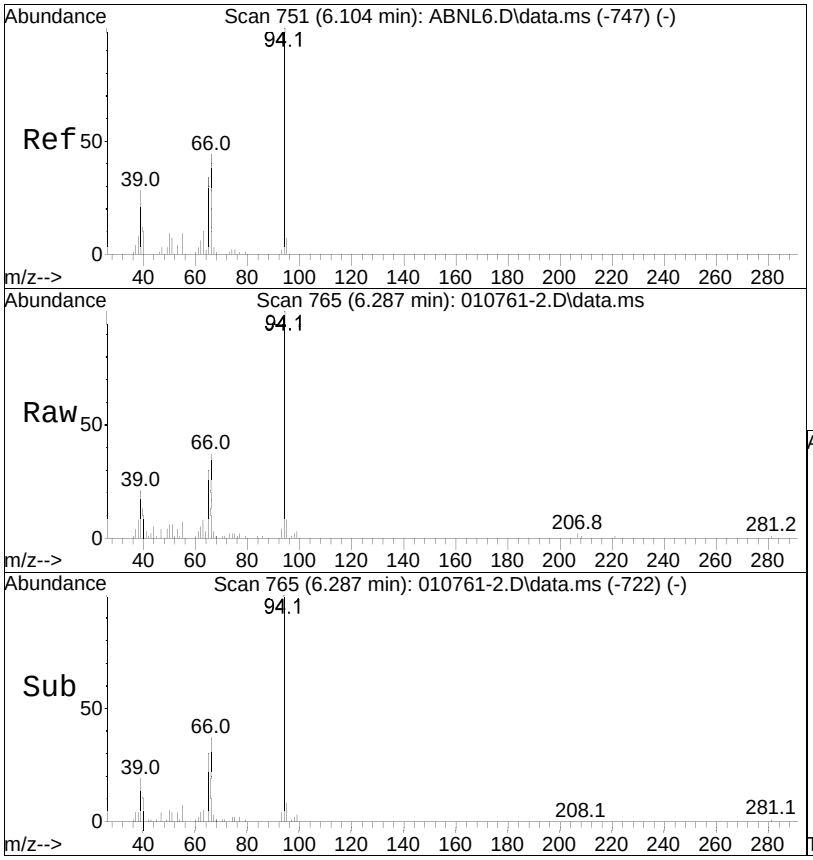


#6
2-Chlorophenol
Concen: 1.10 ug/ml
RT: 6.387 min Scan# 782
Delta R.T. 0.000 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:128 Resp: 23797

Ion	Ratio	Lower	Upper
128	100		
64	43.3	45.1	67.7#
130	31.3	26.2	39.4

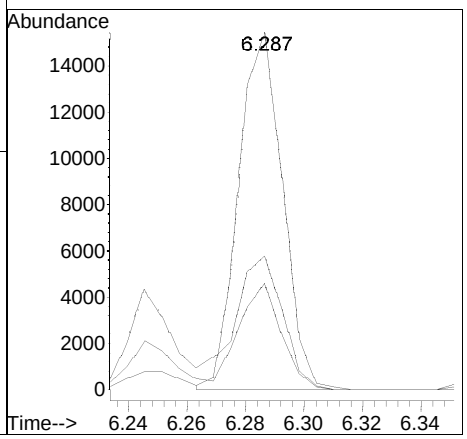


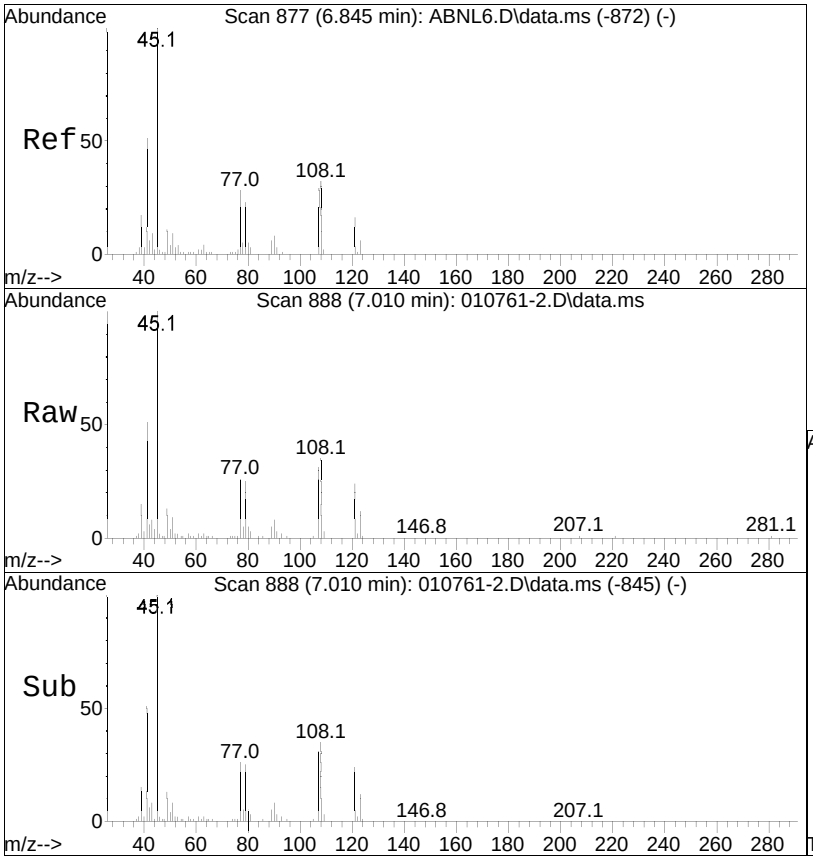


#8
Phenol
Concen: 0.65 ug/ml
RT: 6.287 min Scan# 765
Delta R.T. 0.000 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion: 94 Resp: 16058

Ion	Ratio	Lower	Upper
94	100		
65	28.8	26.0	39.0
66	41.2	33.8	50.8

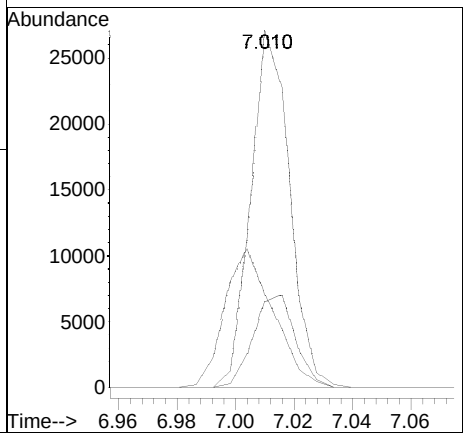


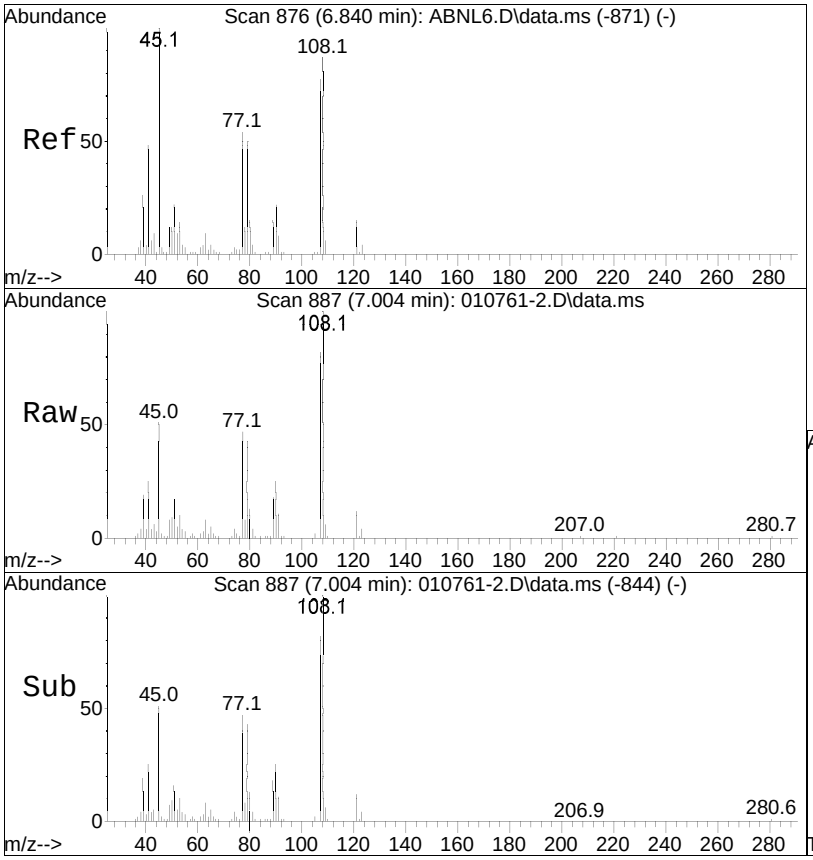


#14
Bis(2-chloroisopropyl)ether
Concen: 0.78 ug/ml
RT: 7.010 min Scan# 888
Delta R.T. 0.000 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion: 45 Resp: 24773

Ion	Ratio	Lower	Upper
45	100		
121	28.3	9.8	14.6#
77	48.9	6.1	9.1#

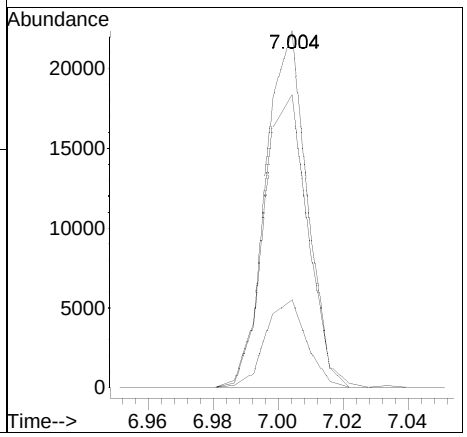


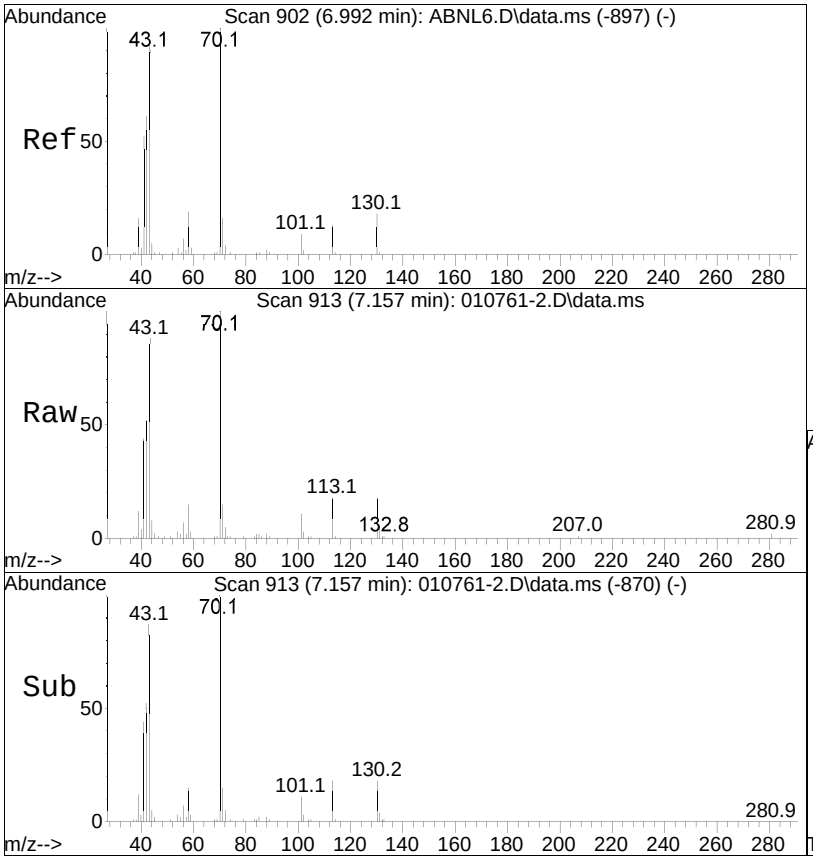


#15
2-Methylphenol
Concen: 1.11 ug/ml
RT: 7.004 min Scan# 887
Delta R.T. 0.000 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:108 Resp: 19696

Ion	Ratio	Lower	Upper
108	100		
107	87.7	70.7	106.1
90	24.7	18.7	28.1

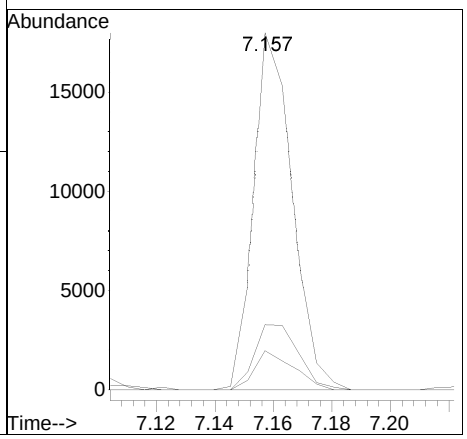


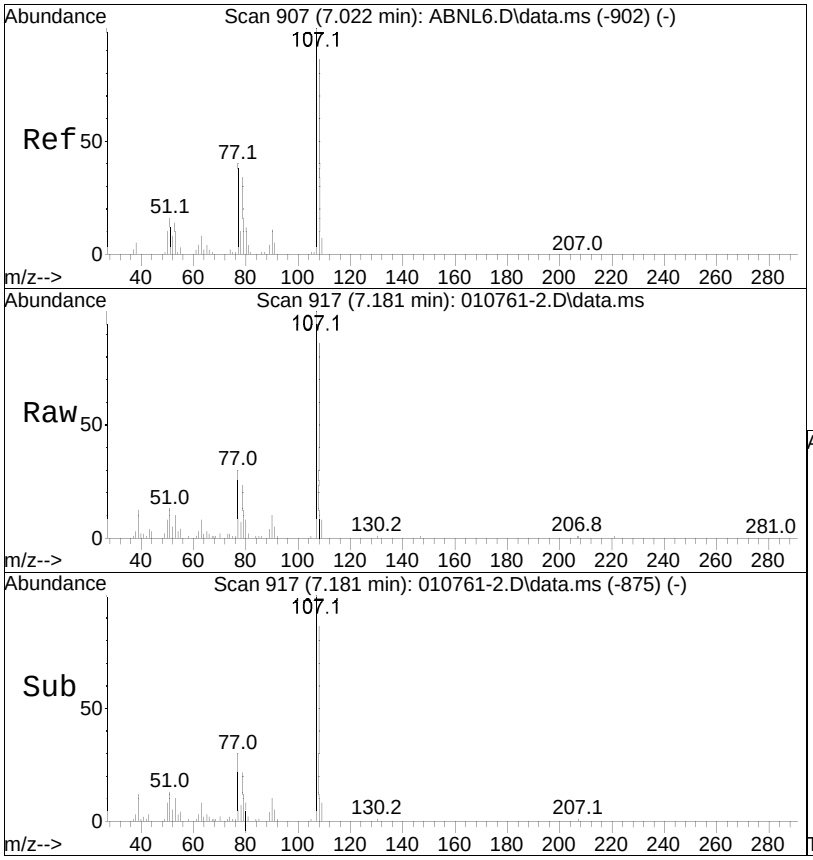


#17
n-Nitrosodi-n-propylamine
Concen: 1.11 ug/ml
RT: 7.157 min Scan# 913
Delta R.T. 0.000 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion: 70 Resp: 16505

Ion	Ratio	Lower	Upper
70	100		
130	20.7	18.2	27.4
101	11.0	7.8	11.8

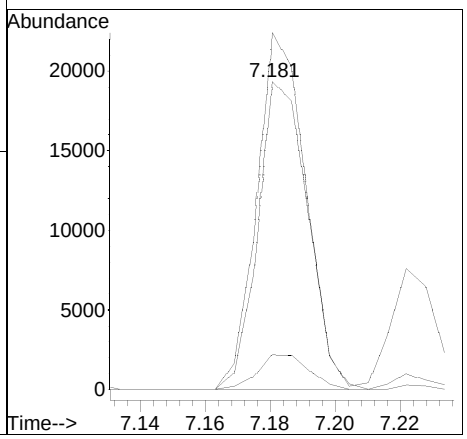


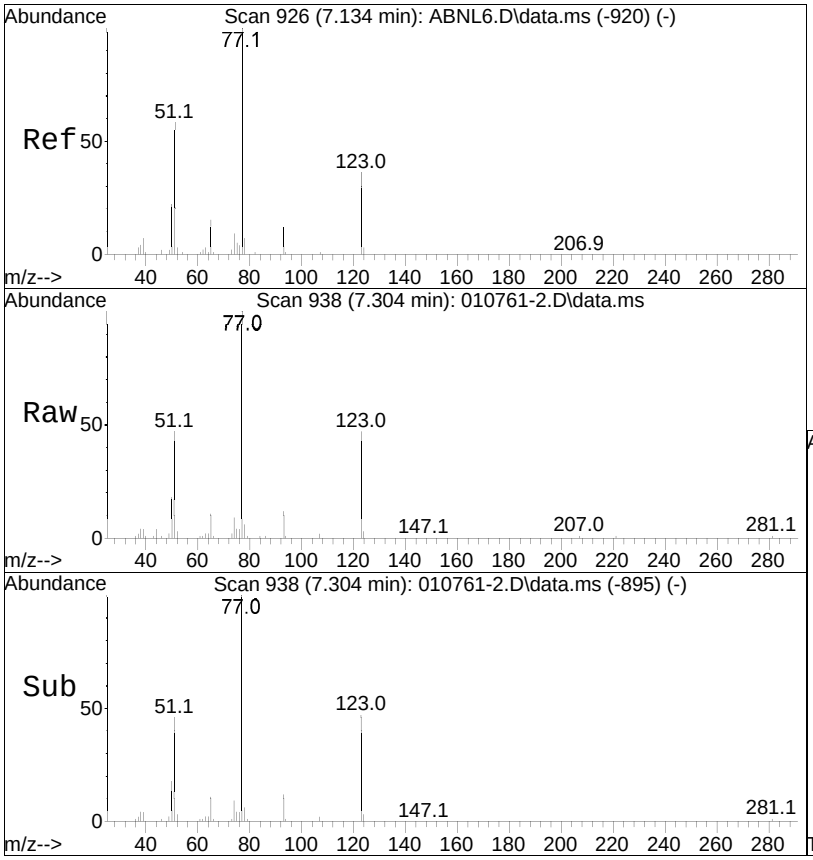


#18
3-Methylphenol/4-Methylphenol
Concen: 1.05 ug/ml
RT: 7.181 min Scan# 917
Delta R.T. -0.006 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:108 Resp: 20474

Ion	Ratio	Lower	Upper
108	100		
107	114.2	88.6	132.8
90	11.8	8.8	13.2

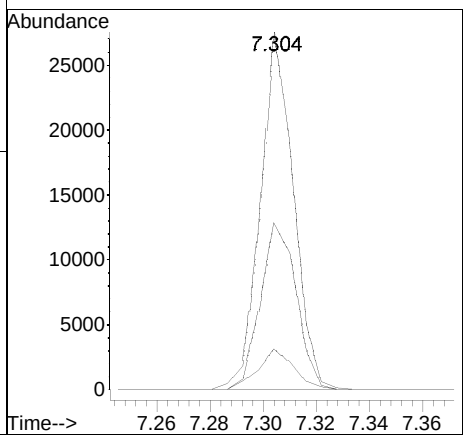


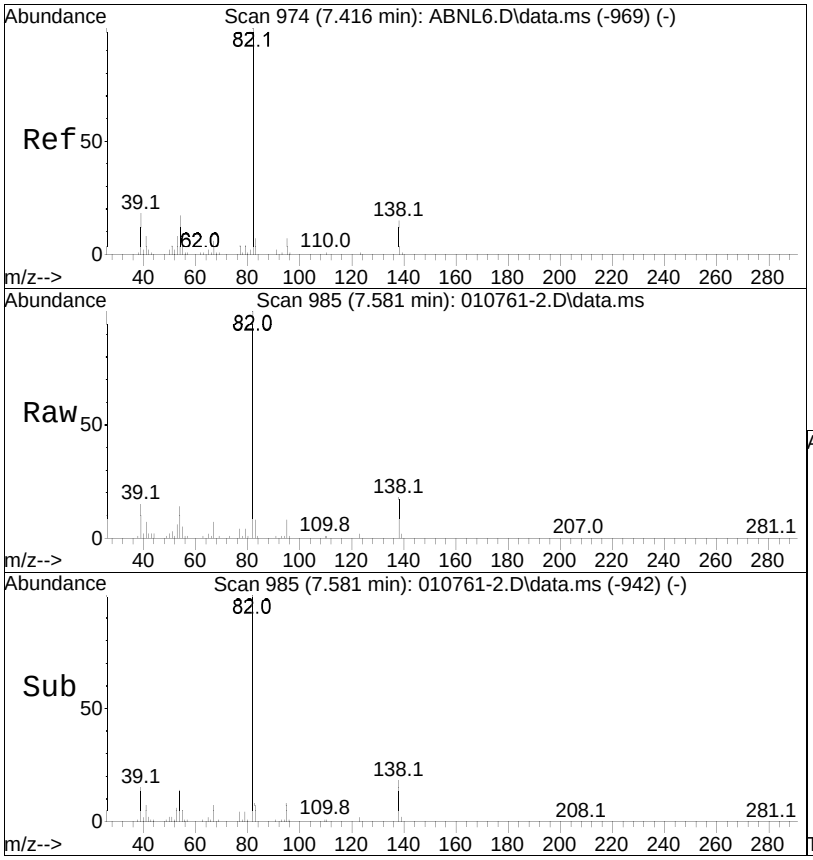


#20
Nitrobenzene
Concen: 1.06 ug/ml
RT: 7.304 min Scan# 938
Delta R.T. 0.000 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion: 77 Resp: 23441

Ion	Ratio	Lower	Upper
77	100		
123	50.8	36.3	54.5
65	12.5	11.6	17.4

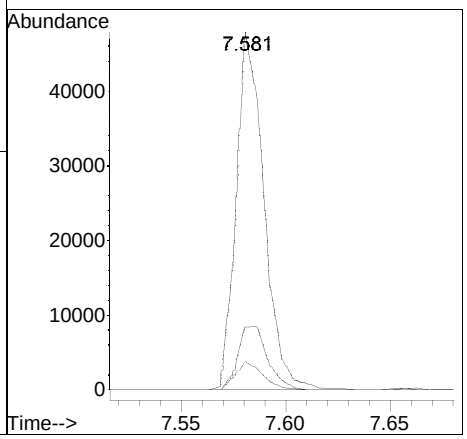


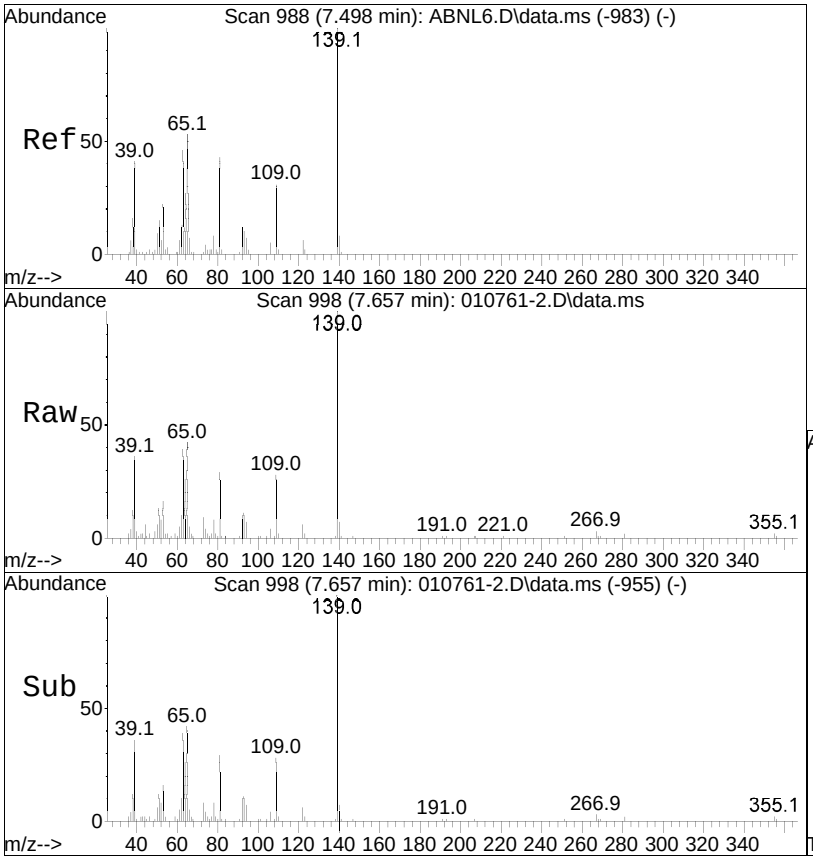


#21
Isophorone
Concen: 1.14 ug/ml
RT: 7.581 min Scan# 985
Delta R.T. 0.000 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion: 82 Resp: 43688

Ion	Ratio	Lower	Upper
82	100		
138	19.0	14.7	22.1
95	7.8	5.2	7.8

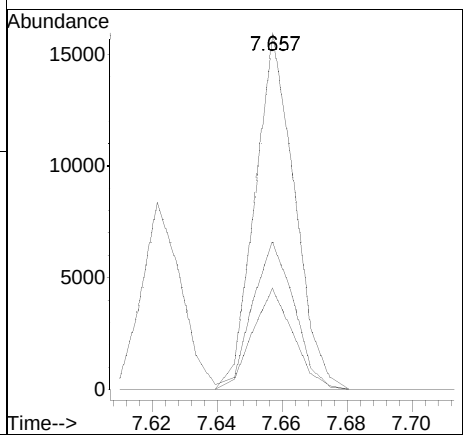


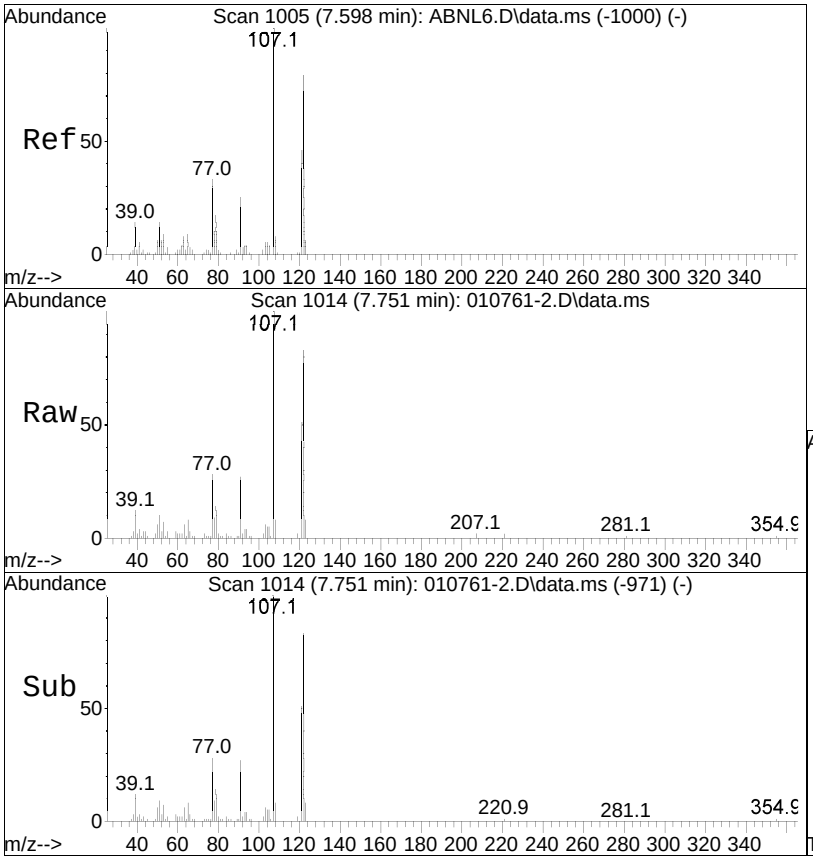


#22
2-Nitrophenol
Concen: 1.19 ug/ml
RT: 7.657 min Scan# 998
Delta R.T. 0.000 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:139 Resp: 13475

Ion	Ratio	Lower	Upper
139	100		
109	29.3	19.4	29.0#
65	43.5	46.1	69.1#

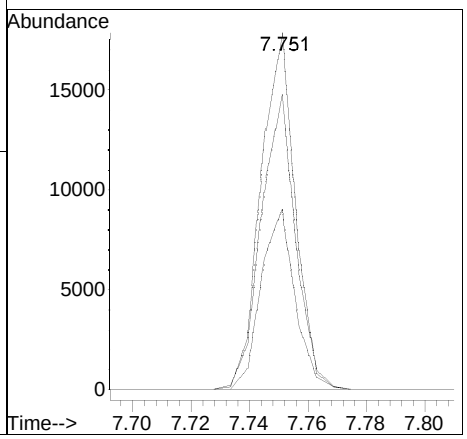


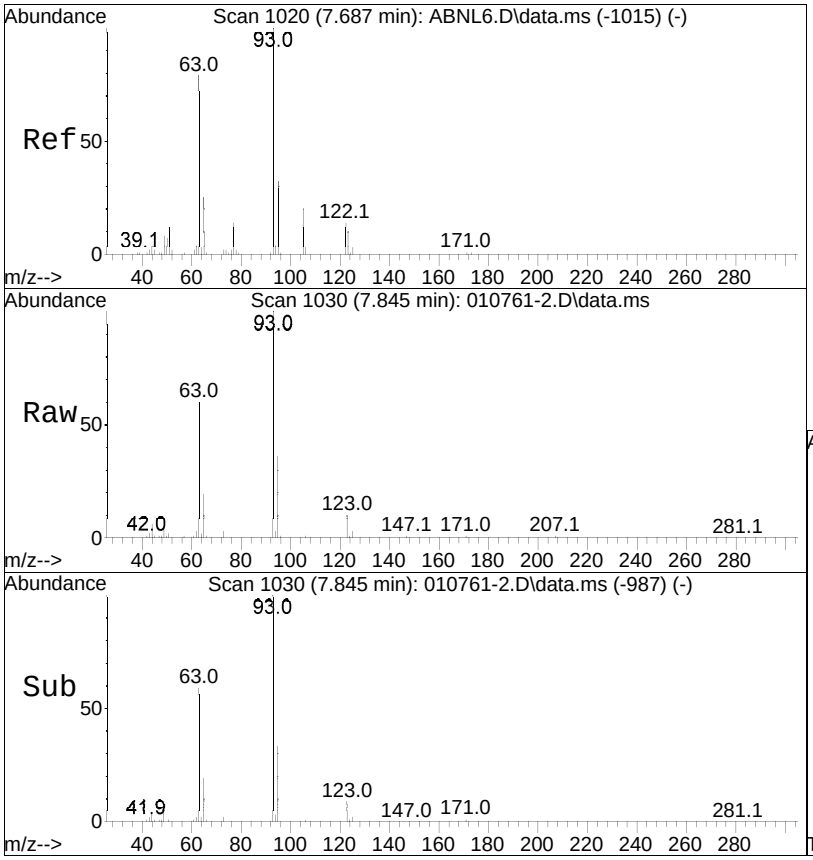


#23
2,4-Dimethylphenol
Concen: 0.81 ug/ml
RT: 7.751 min Scan# 1014
Delta R.T. 0.000 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:107 Resp: 14442

Ion	Ratio	Lower	Upper
107	100		
121	50.3	40.0	60.0
122	83.5	70.2	105.4

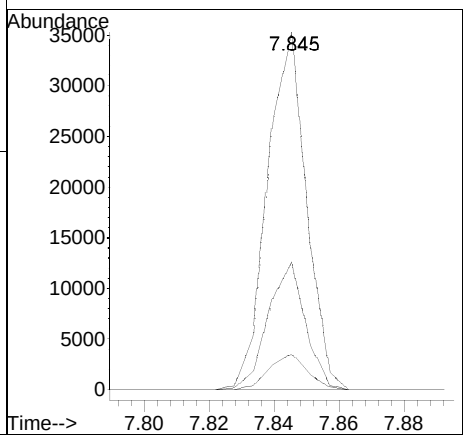


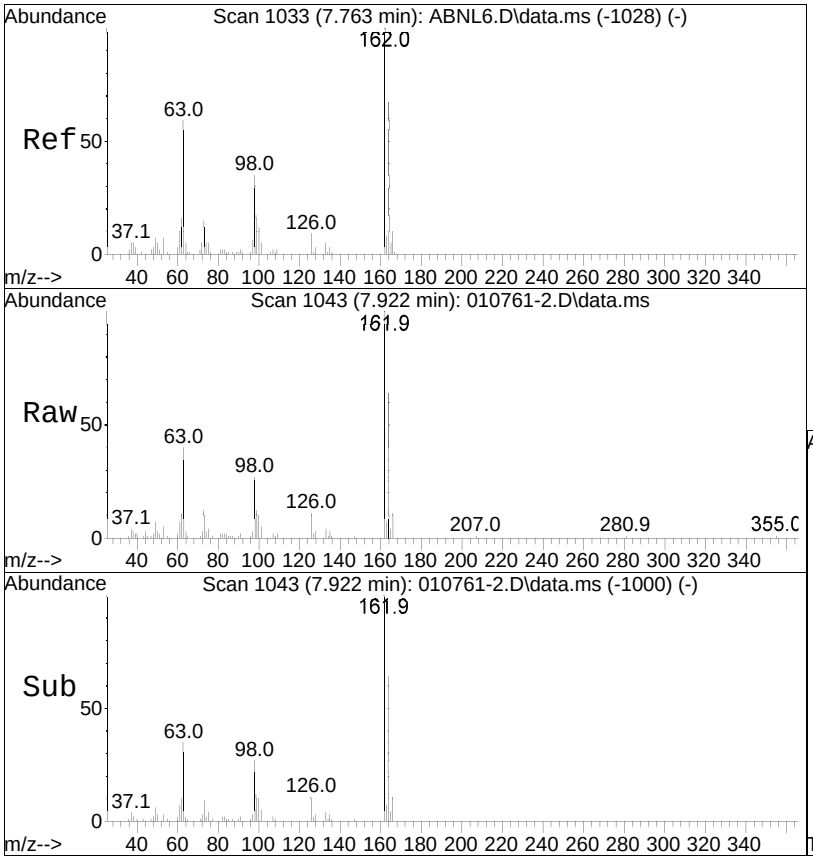


#24
Bis(2-chloroethoxy)methane
Concen: 1.14 ug/ml
RT: 7.845 min Scan# 1030
Delta R.T. 0.000 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion: 93 Resp: 29215

Ion	Ratio	Lower	Upper
93	100		
95	34.2	25.8	38.8
123	9.8	10.1	15.1#

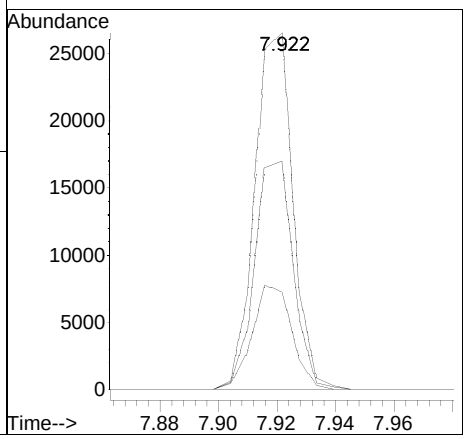


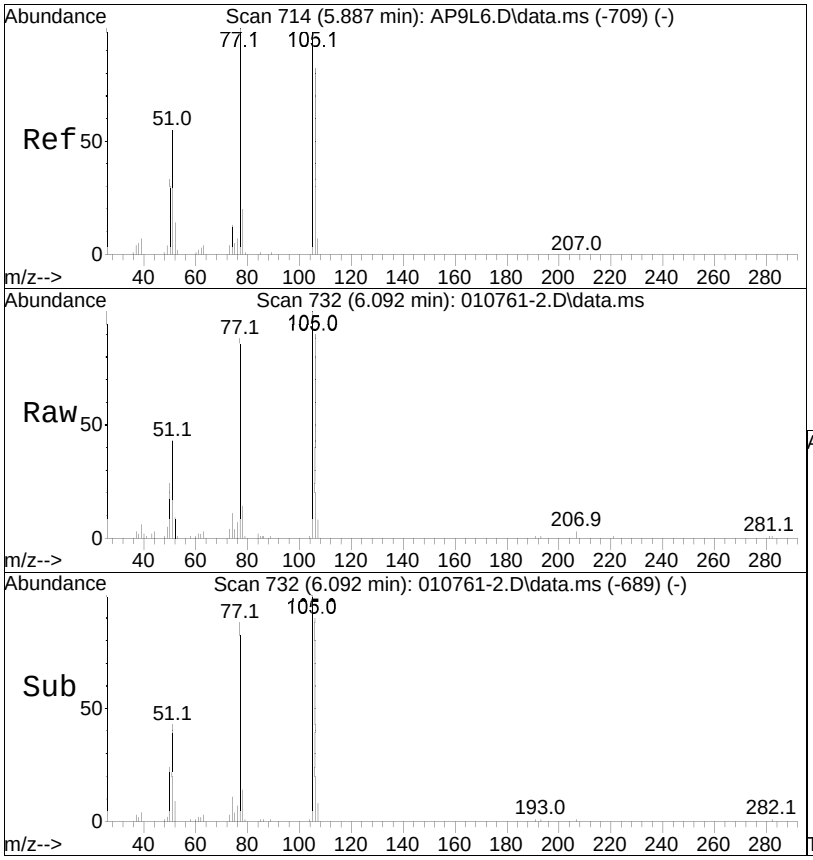


#25
2,4-Dichlorophenol
Concen: 1.21 ug/ml
RT: 7.922 min Scan# 1043
Delta R.T. 0.000 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:162 Resp: 23965

Ion	Ratio	Lower	Upper
162	100		
164	65.3	51.0	76.4
98	30.7	32.2	48.2#

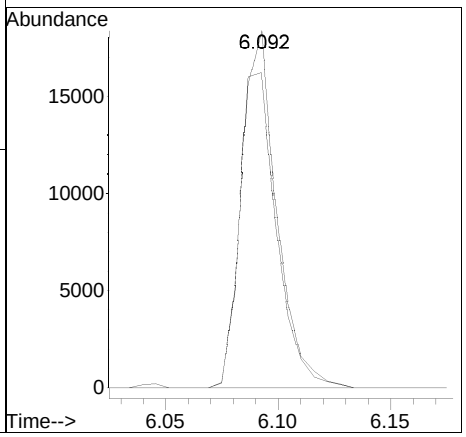


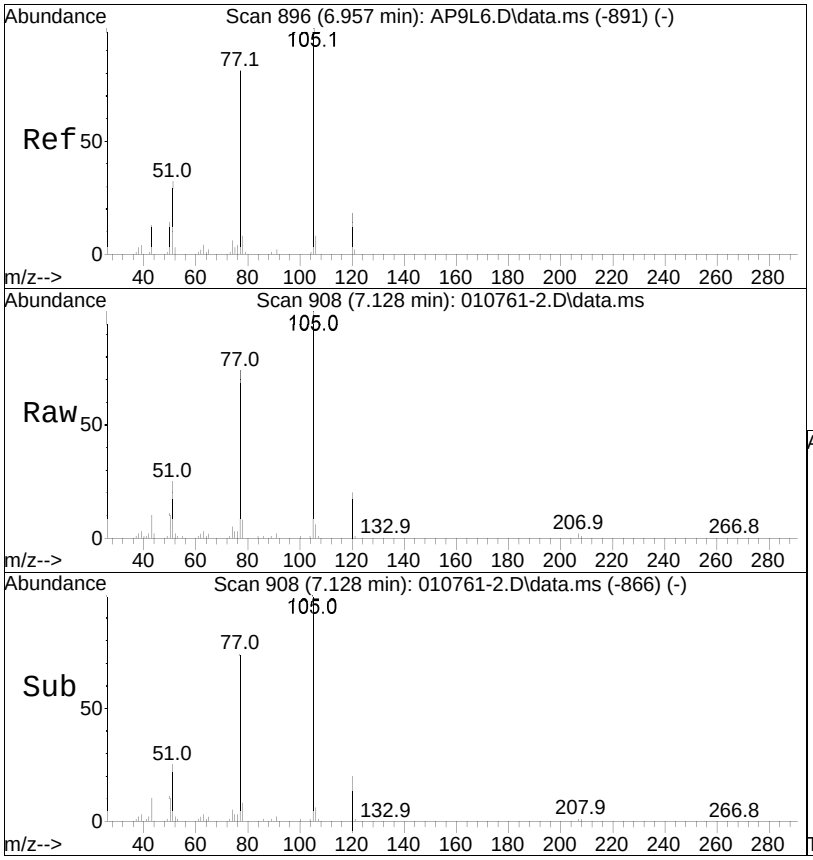


#28
Benzaldehyde
Concen: 1.33 ug/ml
RT: 6.092 min Scan# 732
Delta R.T. 0.006 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:105 Resp: 19954

Ion	Ratio	Lower	Upper
105	100		
77	92.9	82.2	123.4

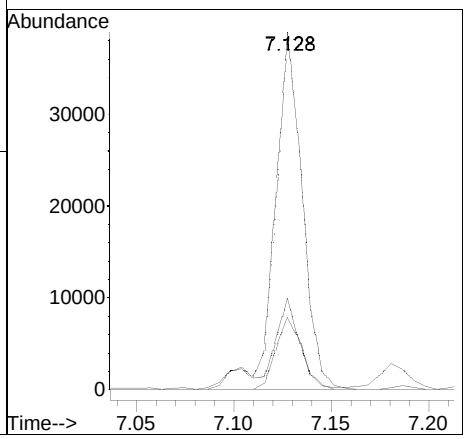


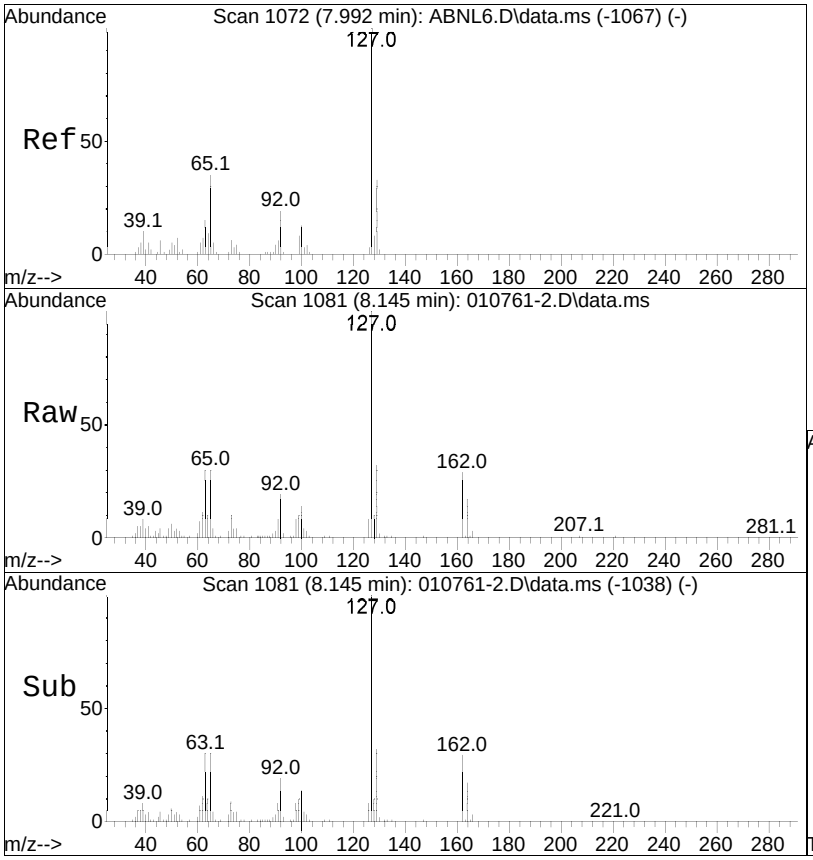


#29
Acetophenone
Concen: 1.31 ug/ml
RT: 7.128 min Scan# 908
Delta R.T. -0.000 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:105 Resp: 37905

Ion	Ratio	Lower	Upper
105	100		
120	19.3	20.5	30.7#
51	28.8	34.9	52.3#

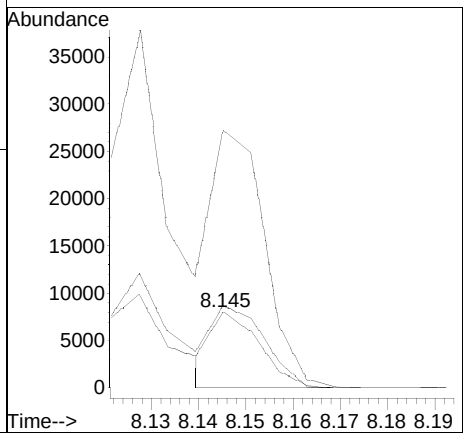


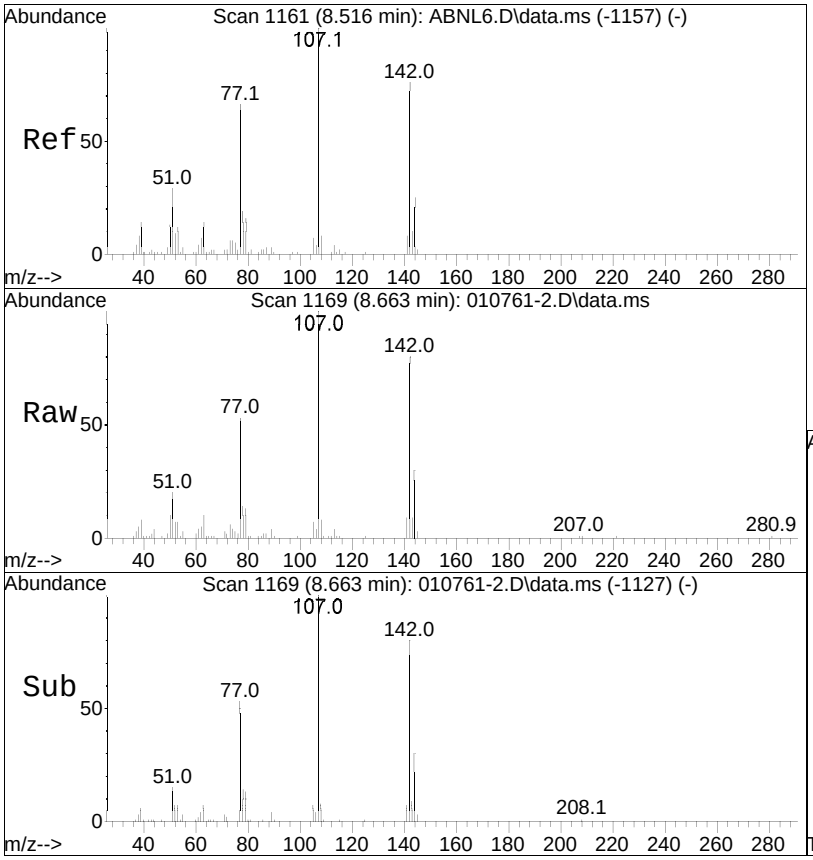


#38
4-Chloroaniline
Concen: 0.75 ug/ml M3
RT: 8.145 min Scan# 1081
Delta R.T. 0.000 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion: 65 Resp: 5656

Ion	Ratio	Lower	Upper
65	100		
127	593.8	237.6	356.4#
129	193.5	76.3	114.5#

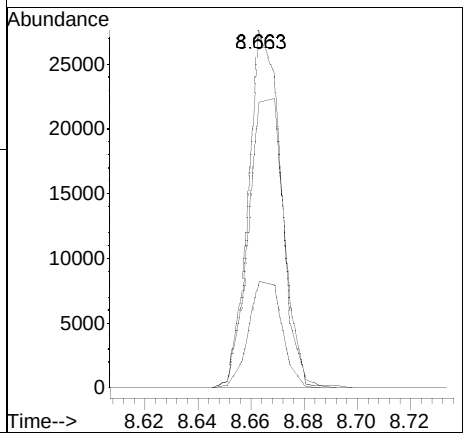


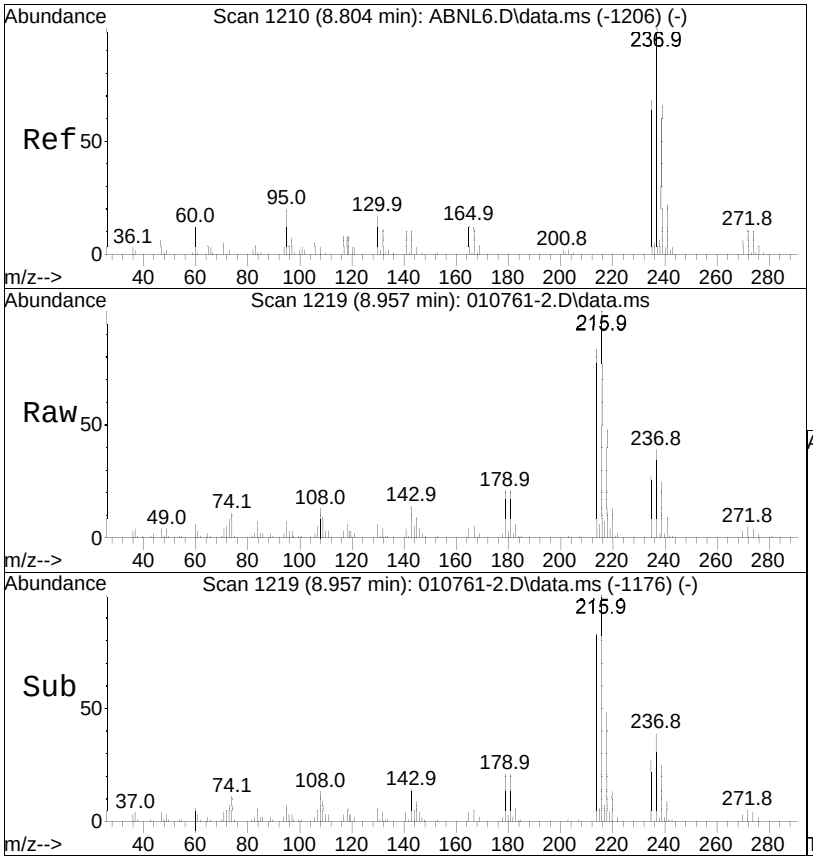


#40
p-Chloro-m-cresol
Concen: 1.32 ug/ml
RT: 8.663 min Scan# 1169
Delta R.T. -0.006 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:107 Resp: 23284

Ion	Ratio	Lower	Upper
107	100		
144	30.8	20.9	31.3
142	88.6	66.1	99.1

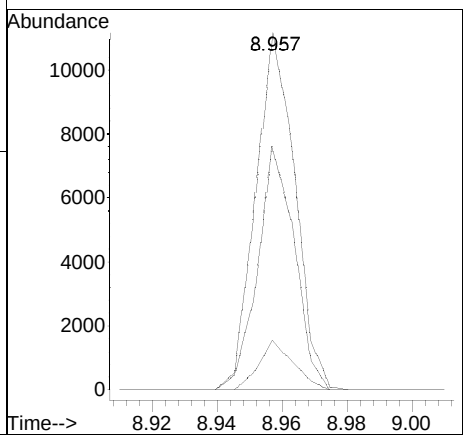


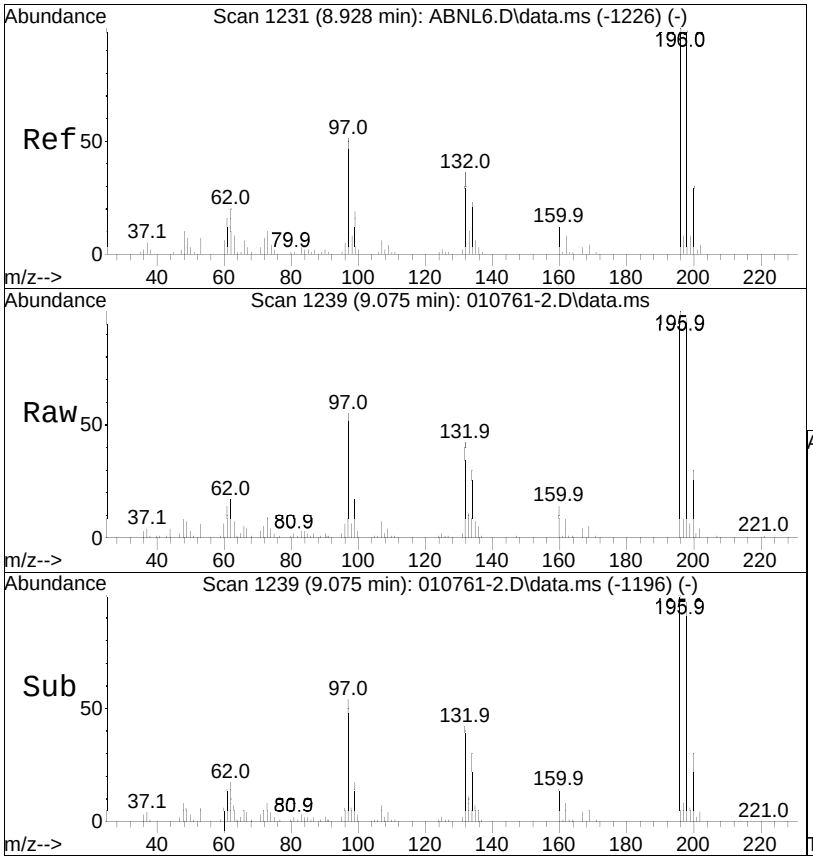


#43
Hexachlorocyclopentadiene
Concen: 0.60 ug/ml
RT: 8.957 min Scan# 1219
Delta R.T. 0.000 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:237 Resp: 9345

Ion	Ratio	Lower	Upper
237	100		
235	64.0	49.7	74.5
272	12.2	9.8	14.6

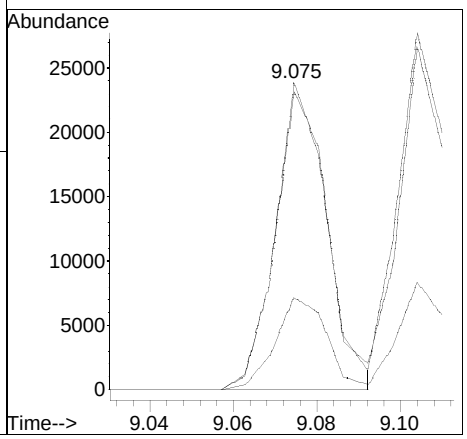


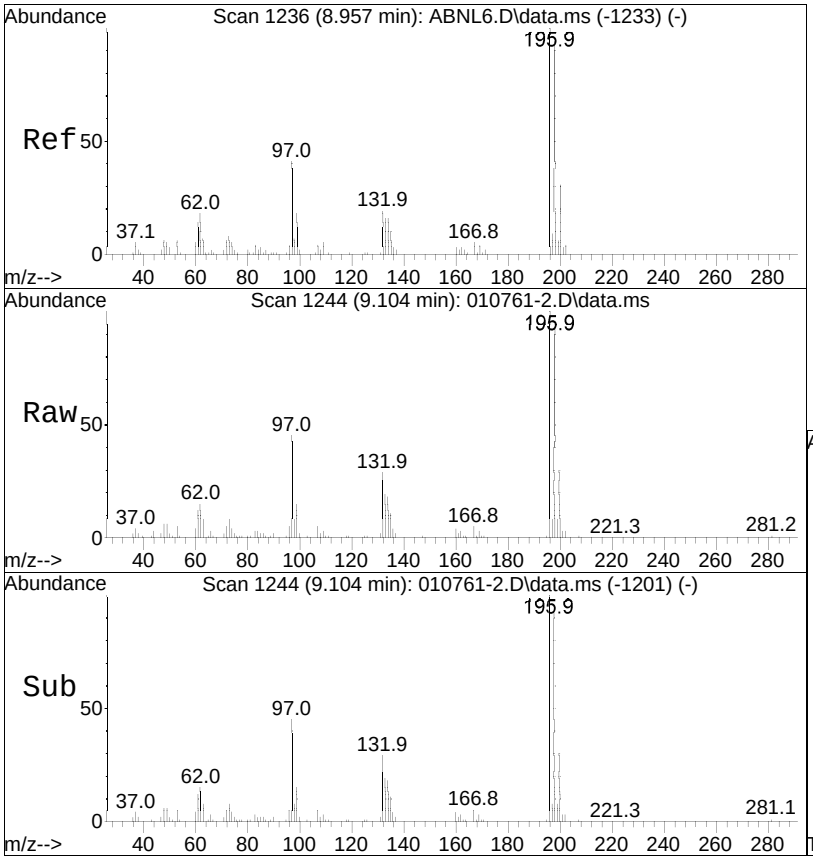


#44
2,4,6-Trichlorophenol
Concen: 1.23 ug/ml
RT: 9.075 min Scan# 1239
Delta R.T. 0.000 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:196 Resp: 20124

Ion	Ratio	Lower	Upper
196	100		
198	100.2	77.5	116.3
200	30.7	23.8	35.6

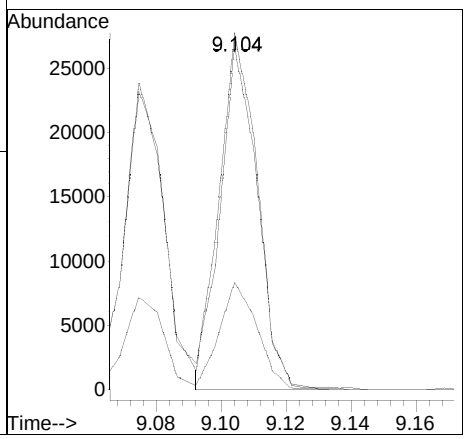


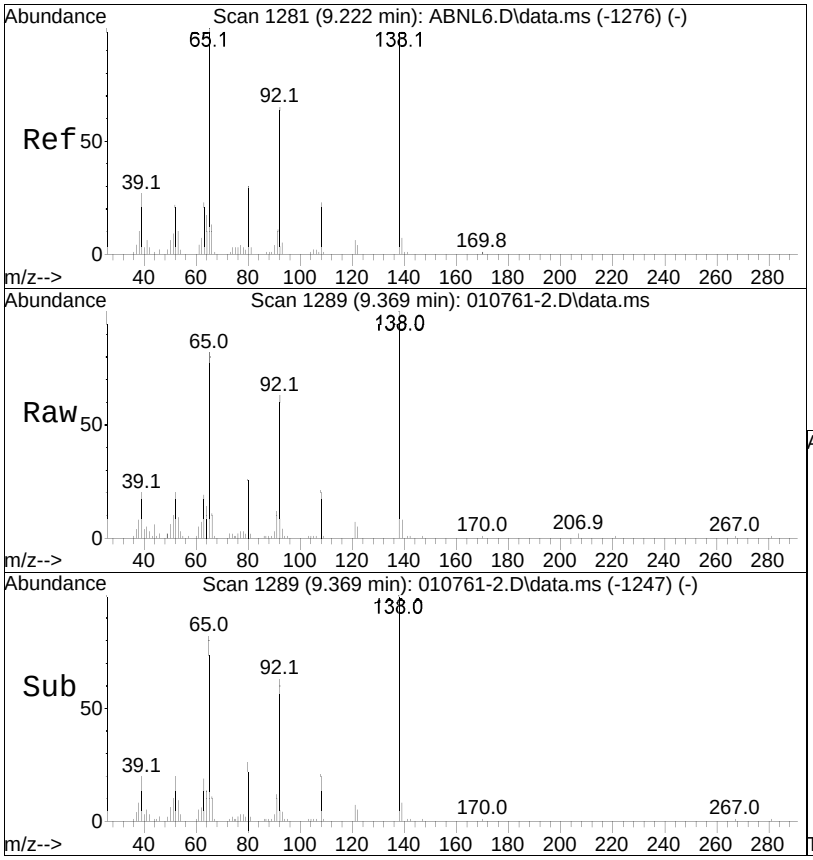


#45
2,4,5-Trichlorophenol
Concen: 1.33 ug/ml
RT: 9.104 min Scan# 1244
Delta R.T. 0.000 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:196 Resp: 22609

Ion	Ratio	Lower	Upper
196	100		
200	30.0	25.4	38.0
198	93.1	78.0	117.0

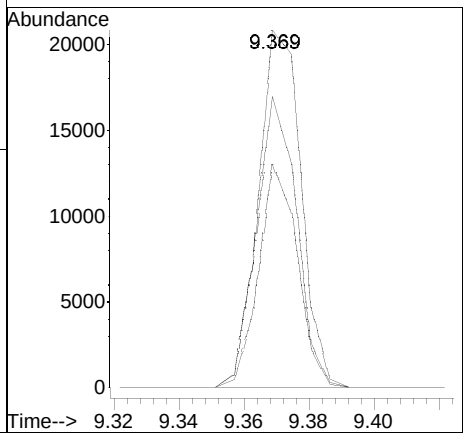


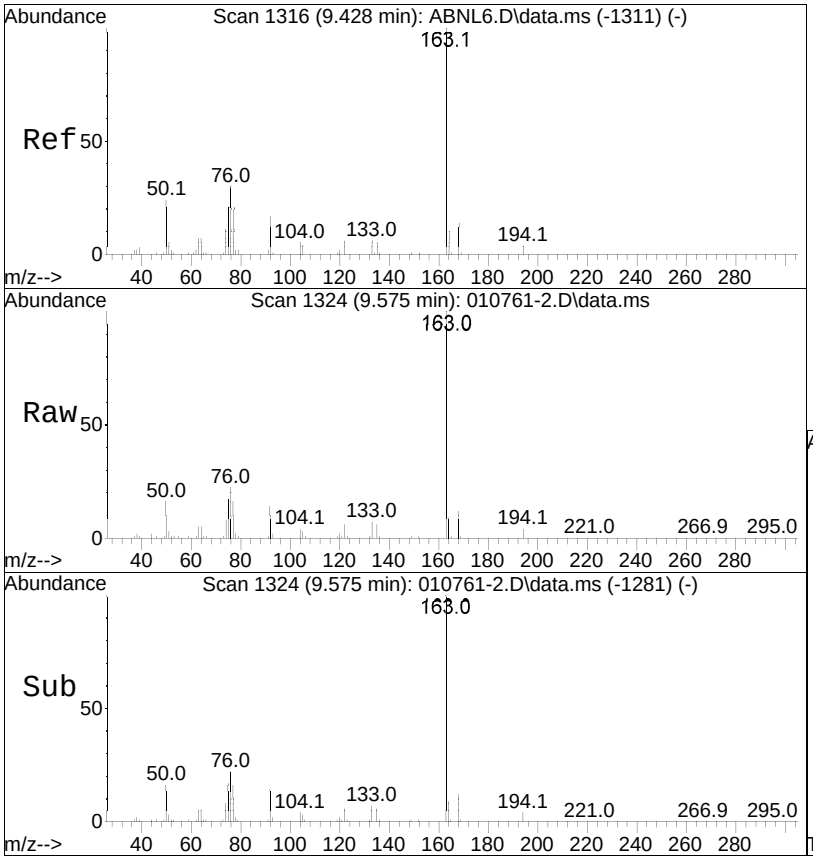


#48
2-Nitroaniline
Concen: 1.42 ug/ml
RT: 9.369 min Scan# 1289
Delta R.T. -0.006 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:138 Resp: 18906

Ion	Ratio	Lower	Upper
138	100		
92	56.8	53.5	80.3
65	76.6	86.3	129.5#

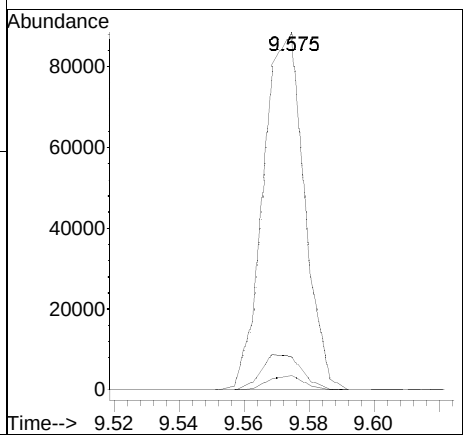


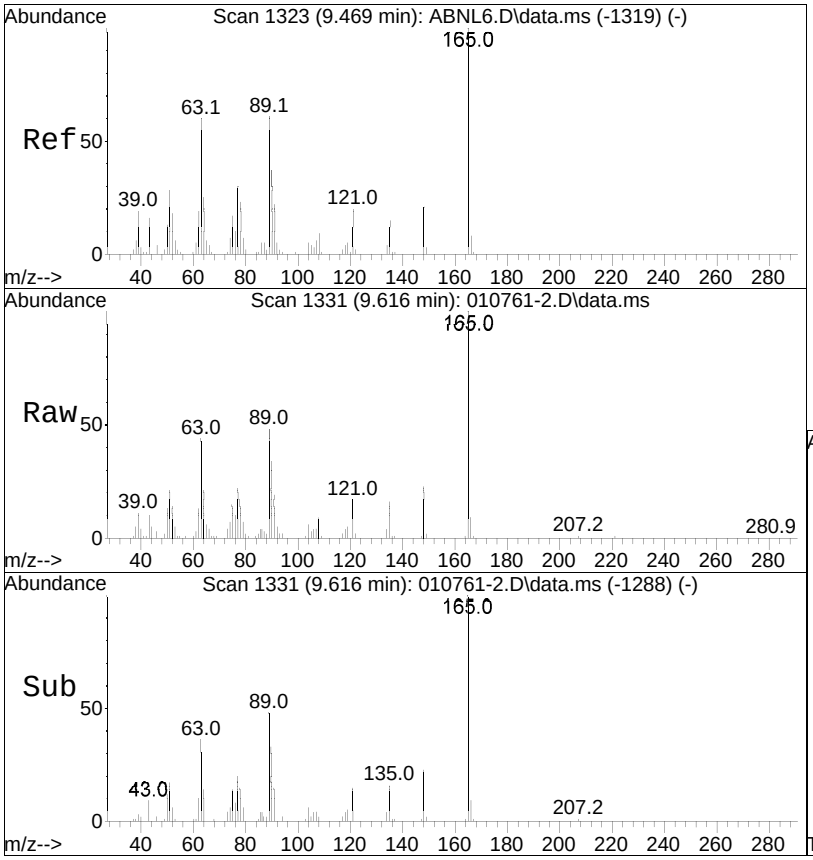


#51
Dimethyl phthalate
Concen: 1.41 ug/ml
RT: 9.575 min Scan# 1324
Delta R.T. 0.000 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:163 Resp: 76687

Ion	Ratio	Lower	Upper
163	100		
194	3.7	3.5	5.3
164	9.9	7.9	11.9

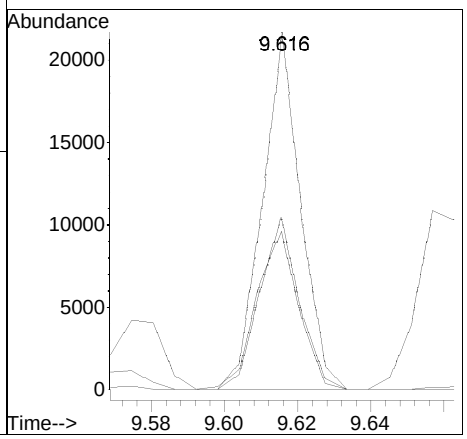


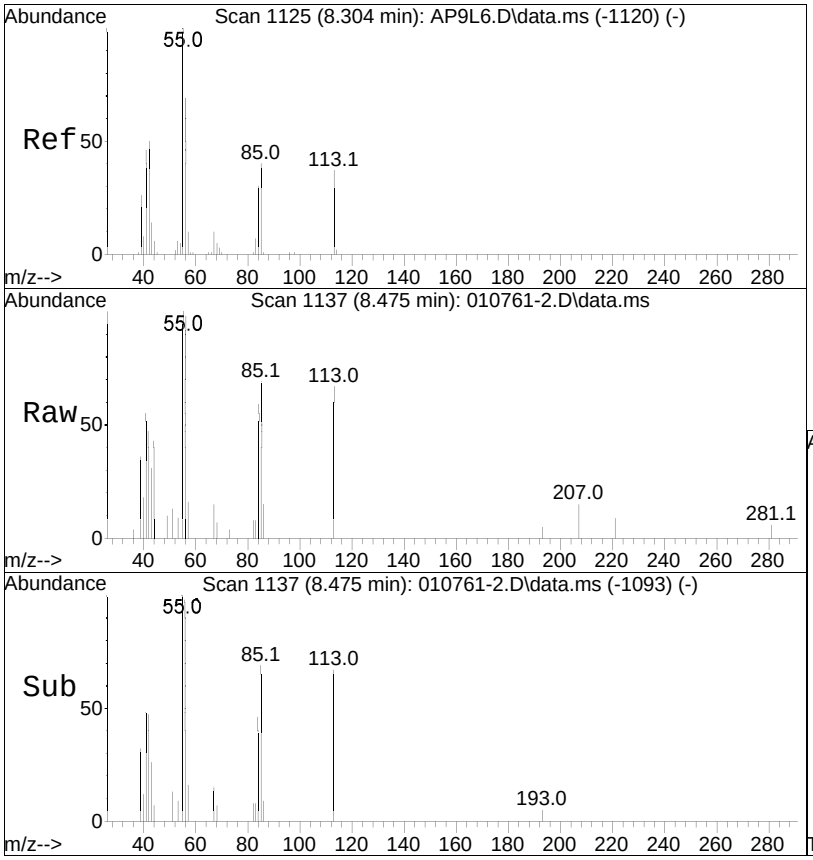


#53
2,6-Dinitrotoluene
Concen: 1.42 ug/ml
RT: 9.616 min Scan# 1331
Delta R.T. 0.000 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:165 Resp: 15687

Ion	Ratio	Lower	Upper
165	100		
89	50.1	54.2	81.2#
63	48.9	64.2	96.2#

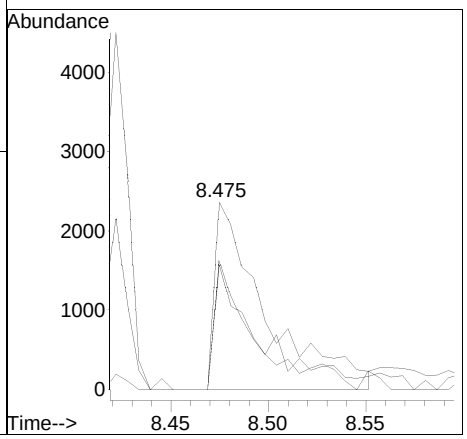


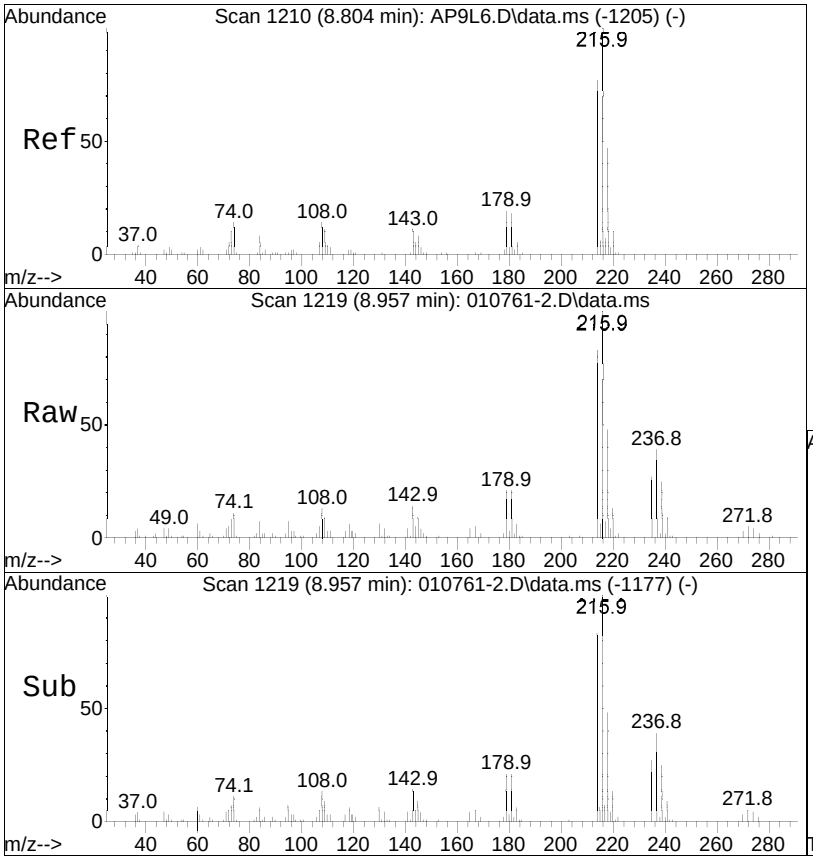


#60
Caprolactam
Concen: 0.50 ug/ml
RT: 8.475 min Scan# 1137
Delta R.T. 0.012 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion: 55 Resp: 4334

Ion	Ratio	Lower	Upper
55	100		
85	58.5	19.8	29.6#
113	45.4	29.6	44.4#

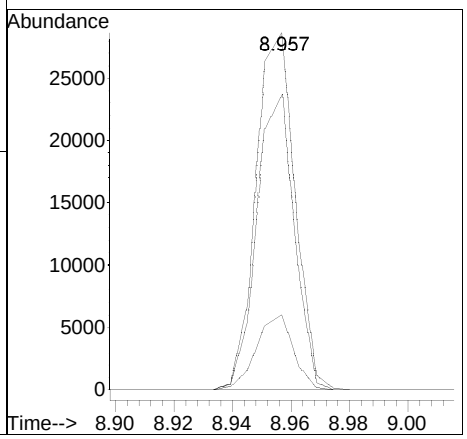


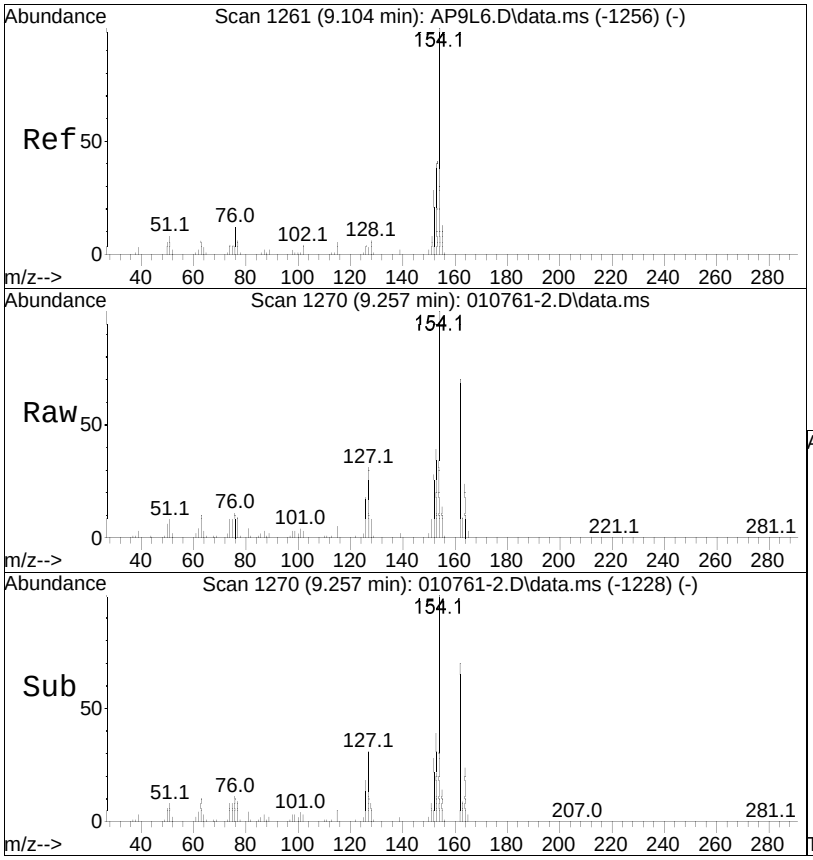


#61
1,2,4,5-Tetrachlorobenzene
Concen: 1.11 ug/ml
RT: 8.957 min Scan# 1219
Delta R.T. -0.000 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:216 Resp: 26512

Ion	Ratio	Lower	Upper
216	100		
214	79.8	63.7	95.5
179	19.9	19.0	28.6

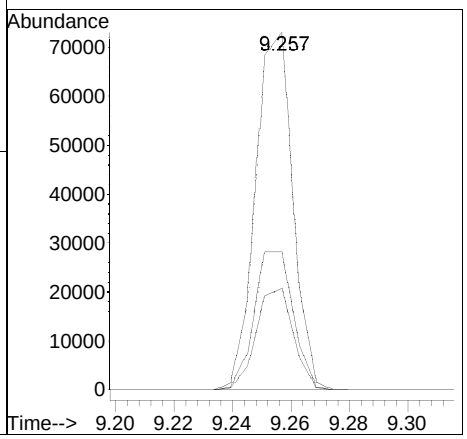


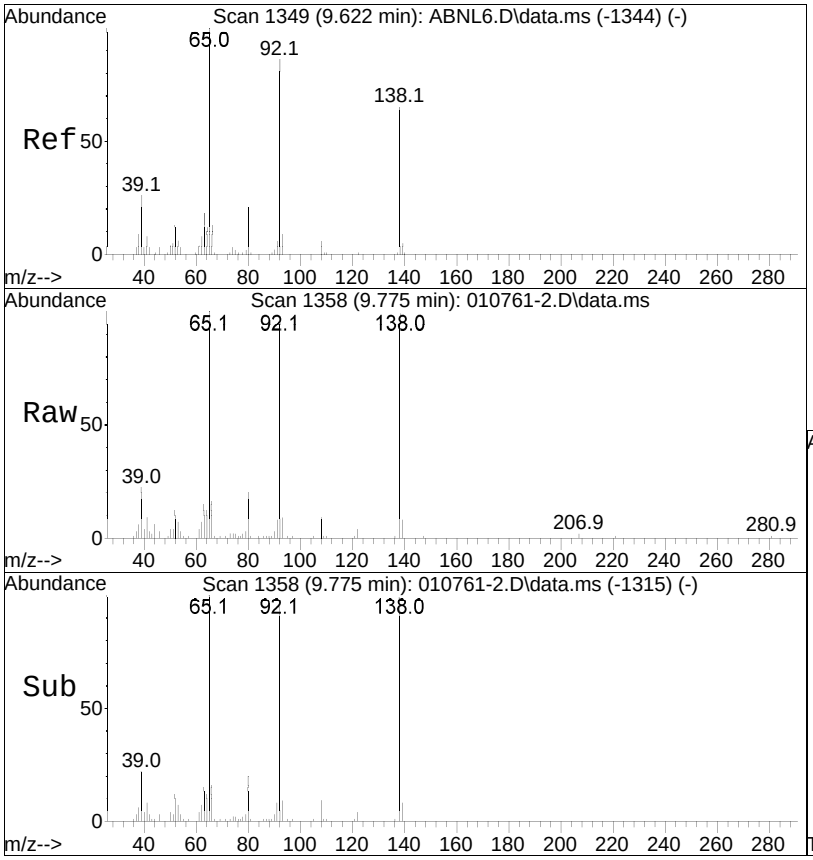


#62
Biphenyl
Concen: 1.20 ug/ml
RT: 9.257 min Scan# 1270
Delta R.T. -0.000 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:154 Resp: 64591

Ion	Ratio	Lower	Upper
154	100		
153	40.8	32.3	48.5
152	28.5	22.5	33.7

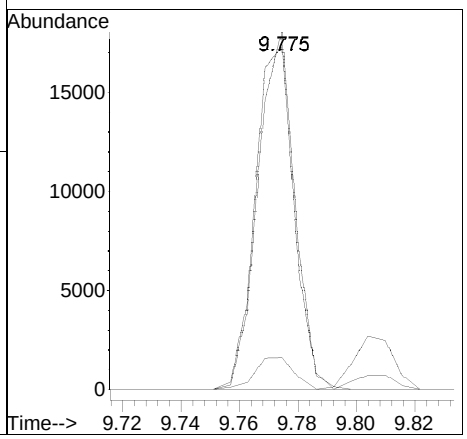


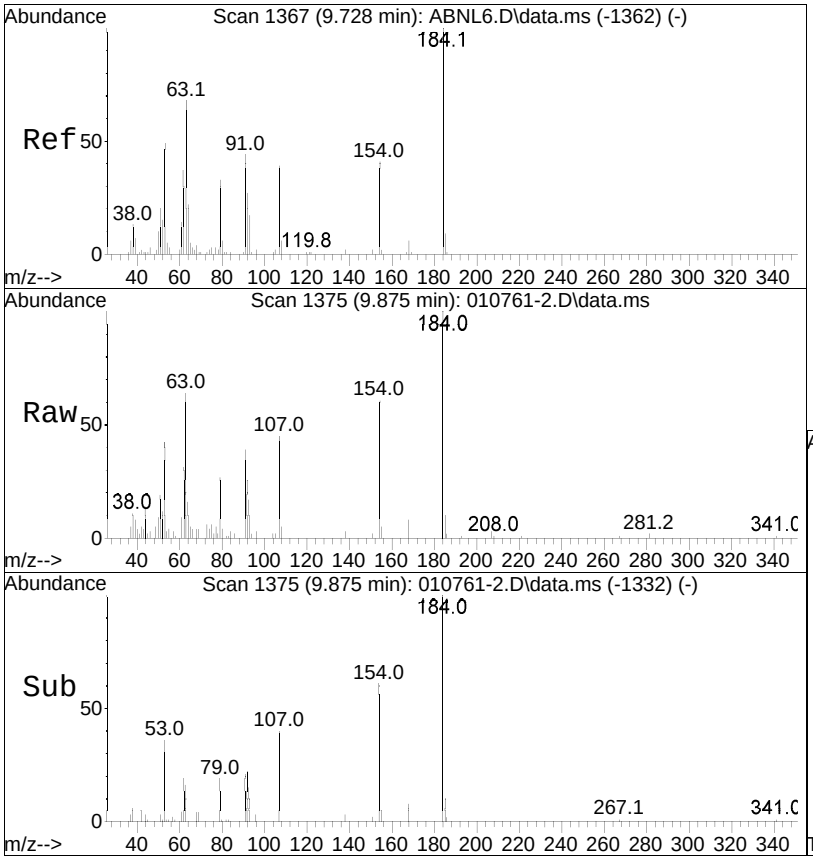


#64
3-Nitroaniline
Concen: 1.34 ug/ml
RT: 9.775 min Scan# 1358
Delta R.T. 0.000 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:138 Resp: 15594

Ion	Ratio	Lower	Upper
138	100		
92	101.2	93.4	140.2
108	9.6	9.5	14.3

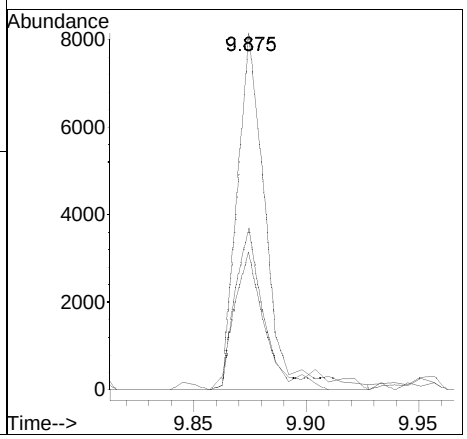


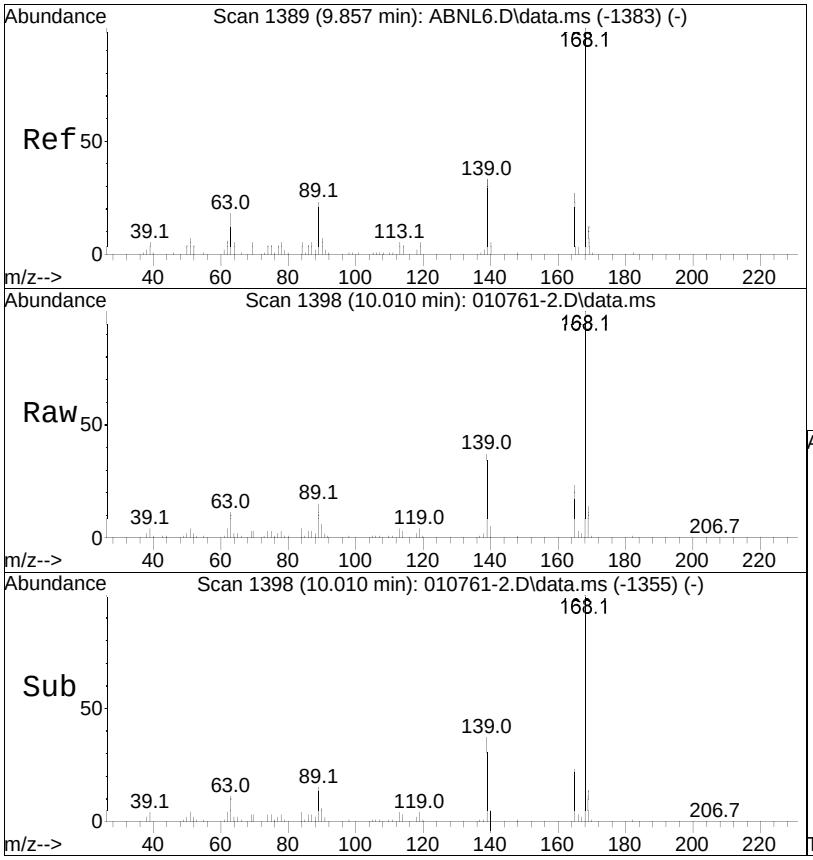


#66
2,4-Dinitrophenol
Concen: 1.97 ug/ml
RT: 9.875 min Scan# 1375
Delta R.T. 0.000 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:184 Resp: 7163

Ion	Ratio	Lower	Upper
184	100		
107	45.9	37.7	56.5
91	42.3	46.3	69.5#

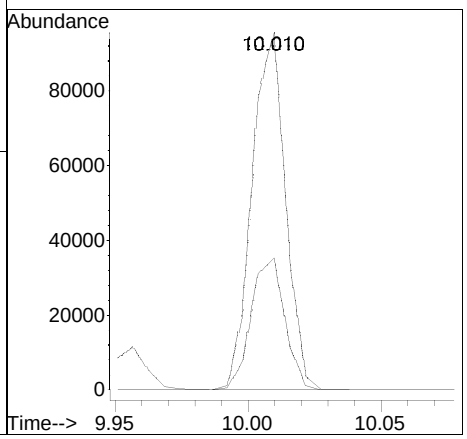


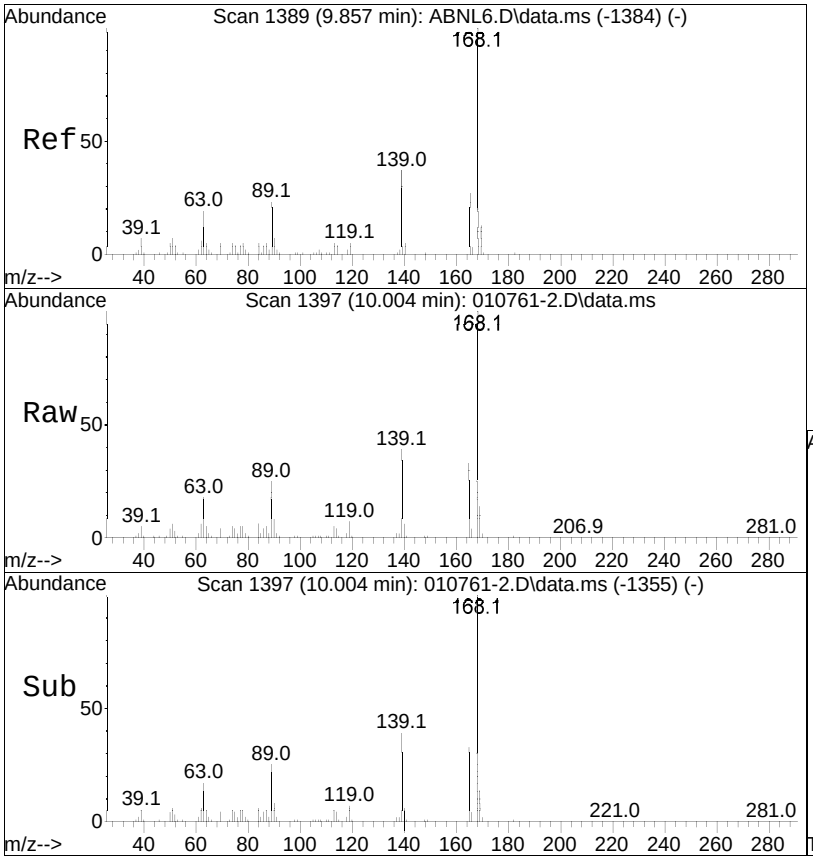


#67
Dibenzofuran
Concen: 1.23 ug/ml
RT: 10.010 min Scan# 1398
Delta R.T. 0.000 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:168 Resp: 82765

Ion	Ratio	Lower	Upper
168	100		
139	37.3	31.4	47.2

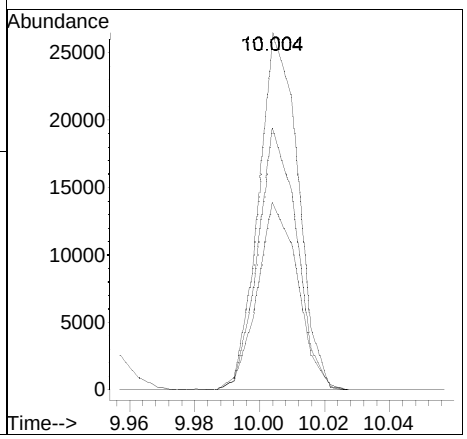


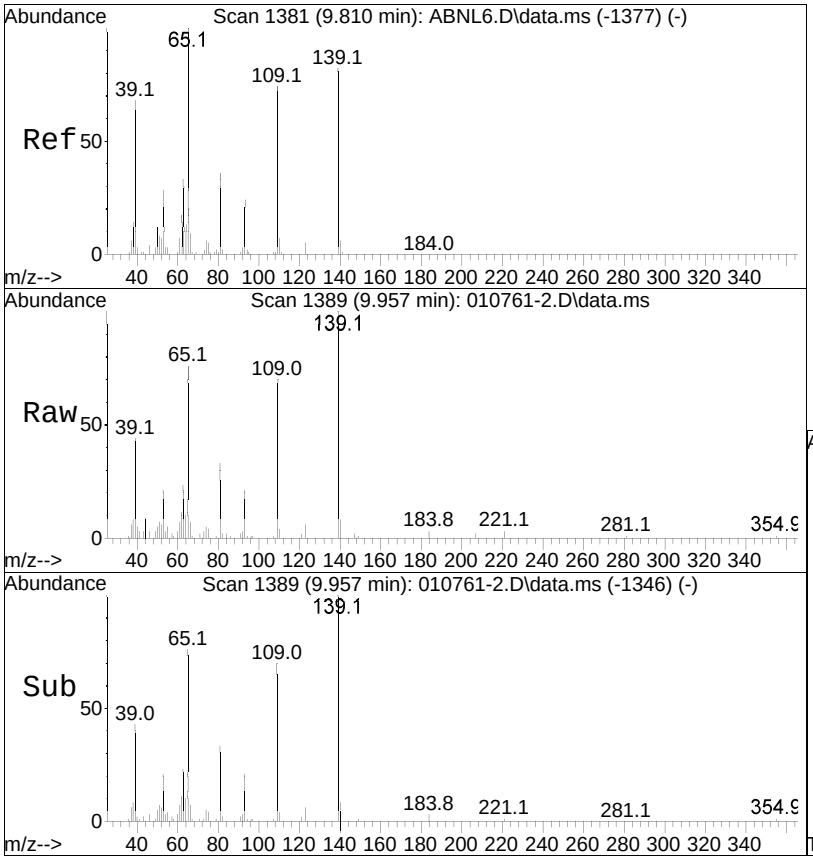


#68
2,4-Dinitrotoluene
Concen: 1.47 ug/ml
RT: 10.004 min Scan# 1397
Delta R.T. -0.006 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:165 Resp: 22144

Ion	Ratio	Lower	Upper
165	100		
89	72.2	72.0	108.0
63	54.1	52.7	79.1

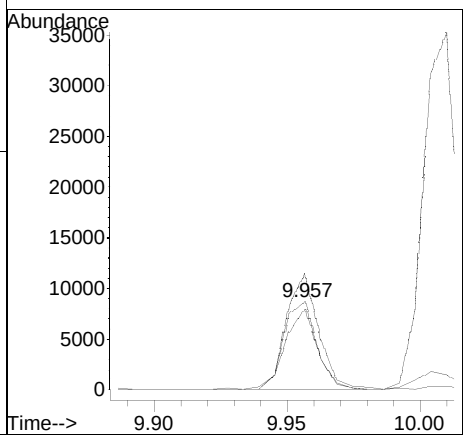


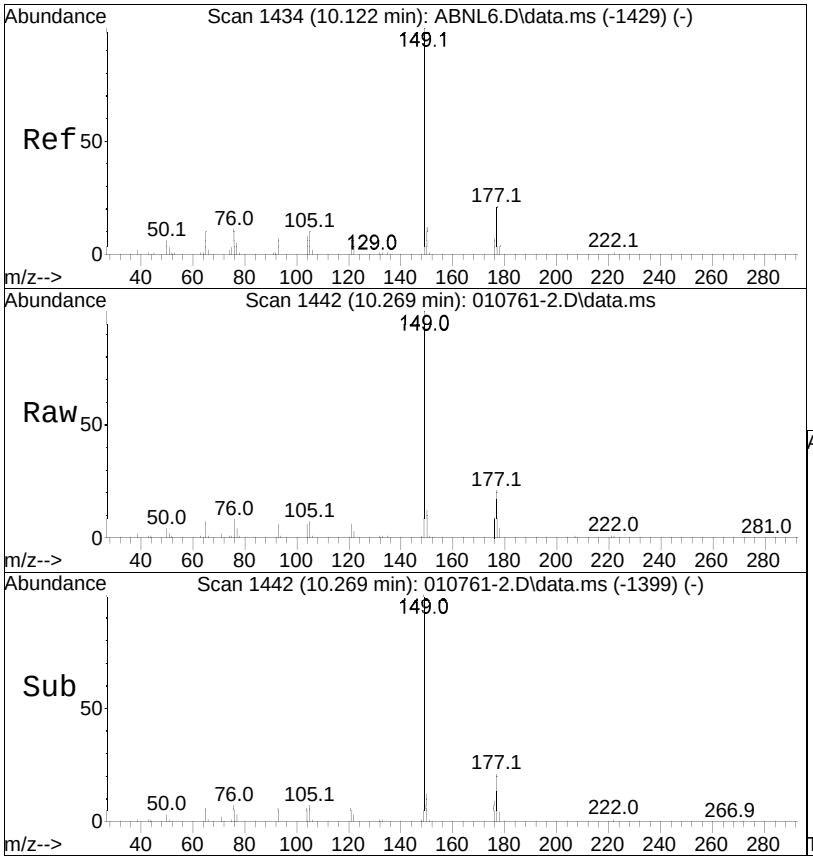


#69
4-Nitrophenol
Concen: 0.89 ug/ml
RT: 9.957 min Scan# 1389
Delta R.T. 0.000 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion: 65 Resp: 7646

Ion	Ratio	Lower	Upper
65	100		
109	86.8	47.4	71.2#
139	127.0	76.6	115.0#

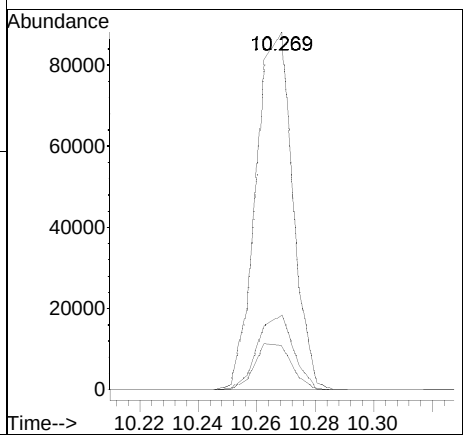


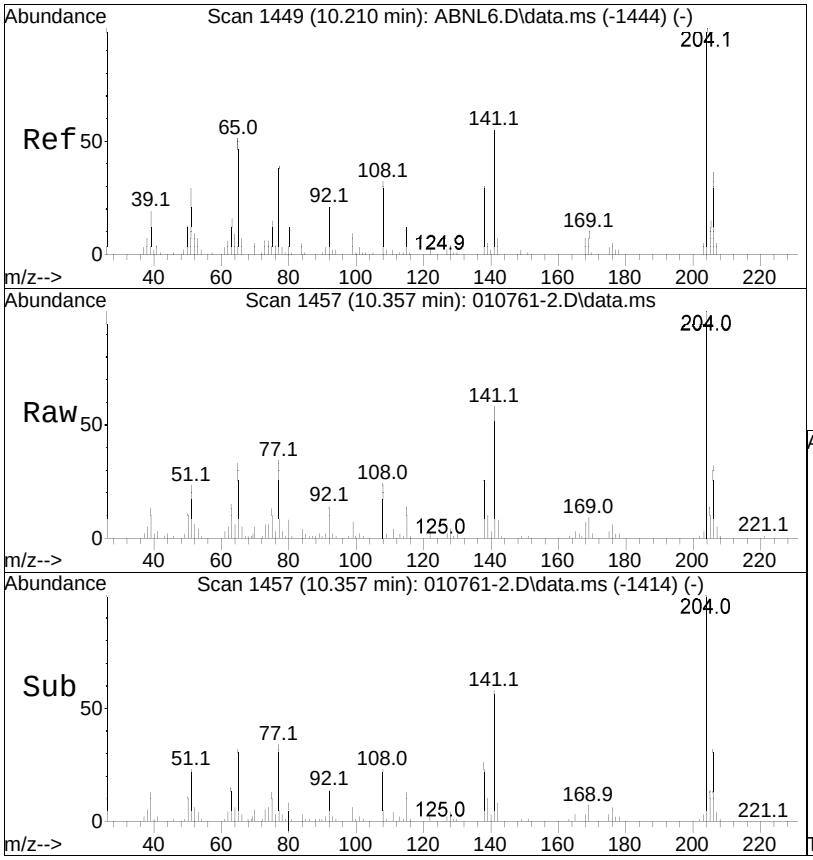


#72
Diethyl phthalate
Concen: 1.40 ug/ml
RT: 10.269 min Scan# 1442
Delta R.T. 0.000 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:149 Resp: 76455

Ion	Ratio	Lower	Upper
149	100		
177	20.7	16.1	24.1
150	13.1	9.4	14.2

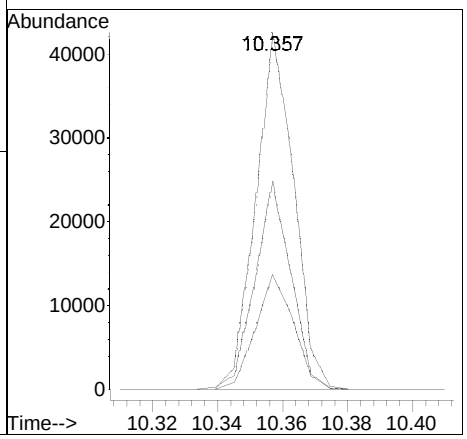


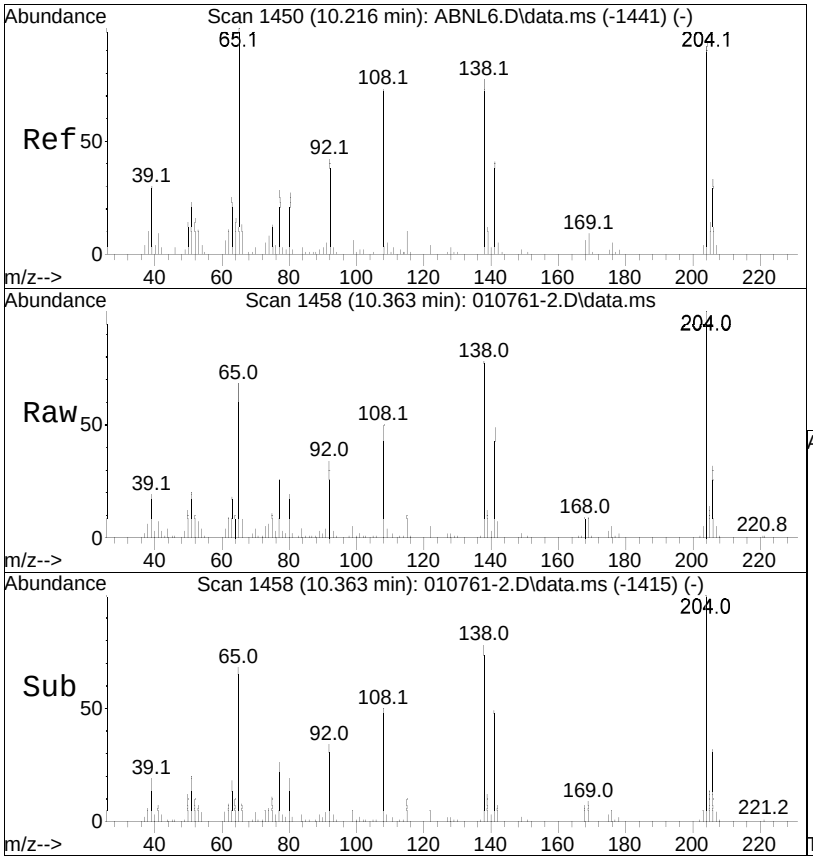


#74
4-Chlorophenyl phenyl ether
Concen: 1.26 ug/ml
RT: 10.357 min Scan# 1457
Delta R.T. 0.000 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:204 Resp: 34132

Ion	Ratio	Lower	Upper
204	100		
206	32.5	25.8	38.6
141	55.6	53.6	80.4

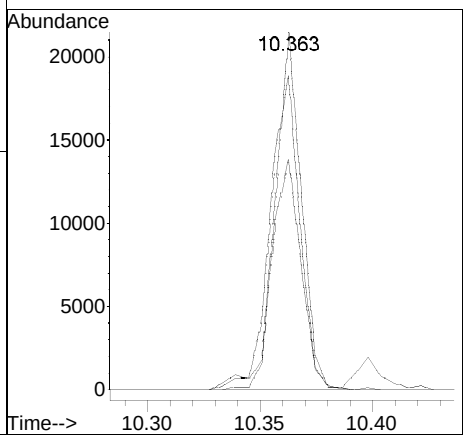


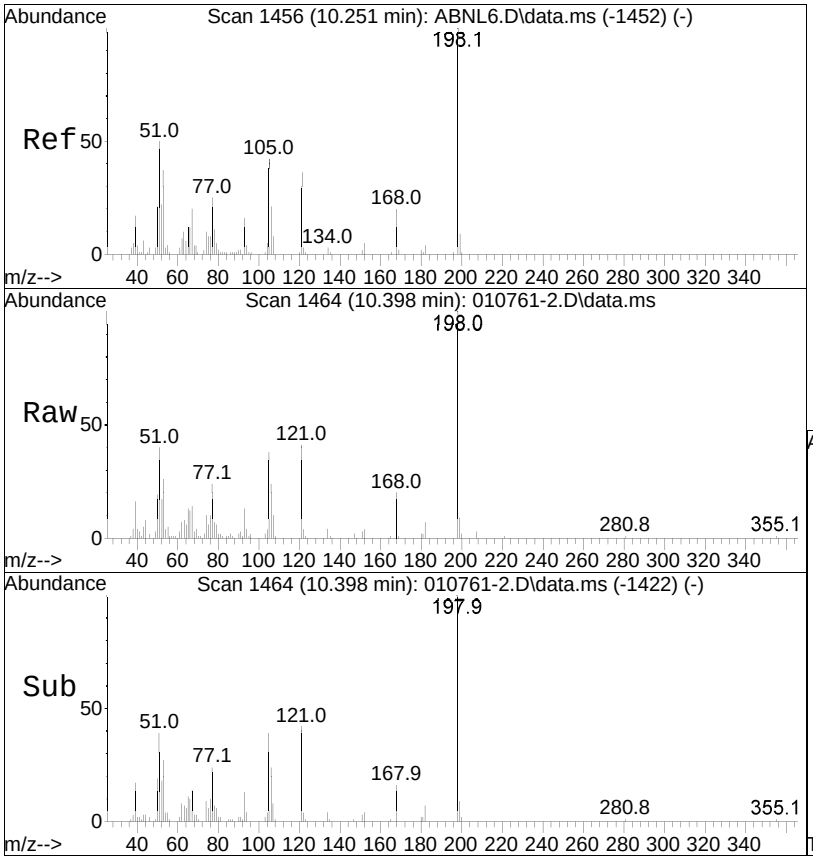


#75
4-Nitroaniline
Concen: 1.49 ug/ml
RT: 10.363 min Scan# 1458
Delta R.T. 0.000 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:138 Resp: 17625

Ion	Ratio	Lower	Upper
138	100		
108	69.9	52.1	78.1
65	97.9	115.0	172.6#

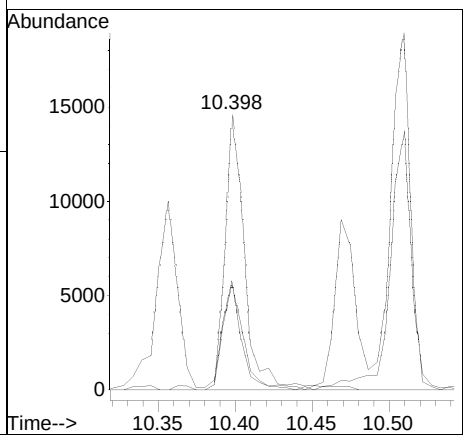


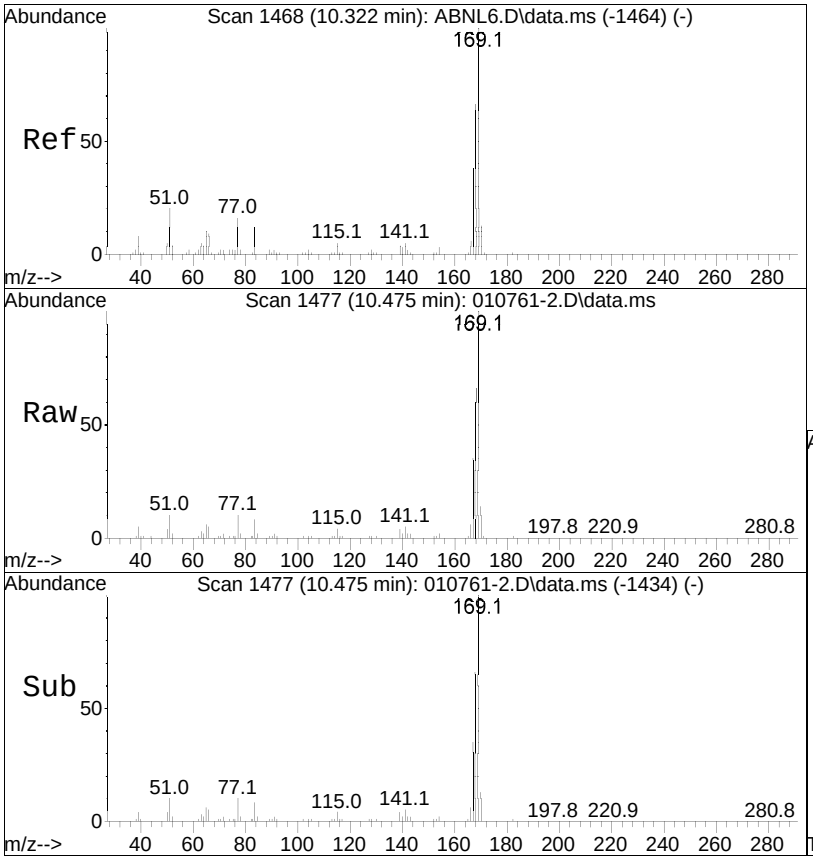


#76
4,6-Dinitro-o-cresol
Concen: 1.54 ug/ml
RT: 10.398 min Scan# 1464
Delta R.T. -0.006 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:198 Resp: 13164

Ion	Ratio	Lower	Upper
198	100		
51	39.2	76.0	114.0#
105	39.4	45.6	68.4#

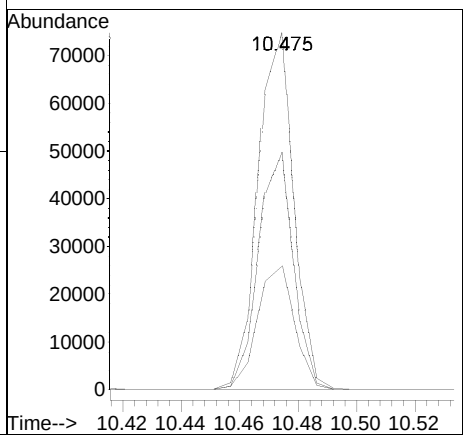


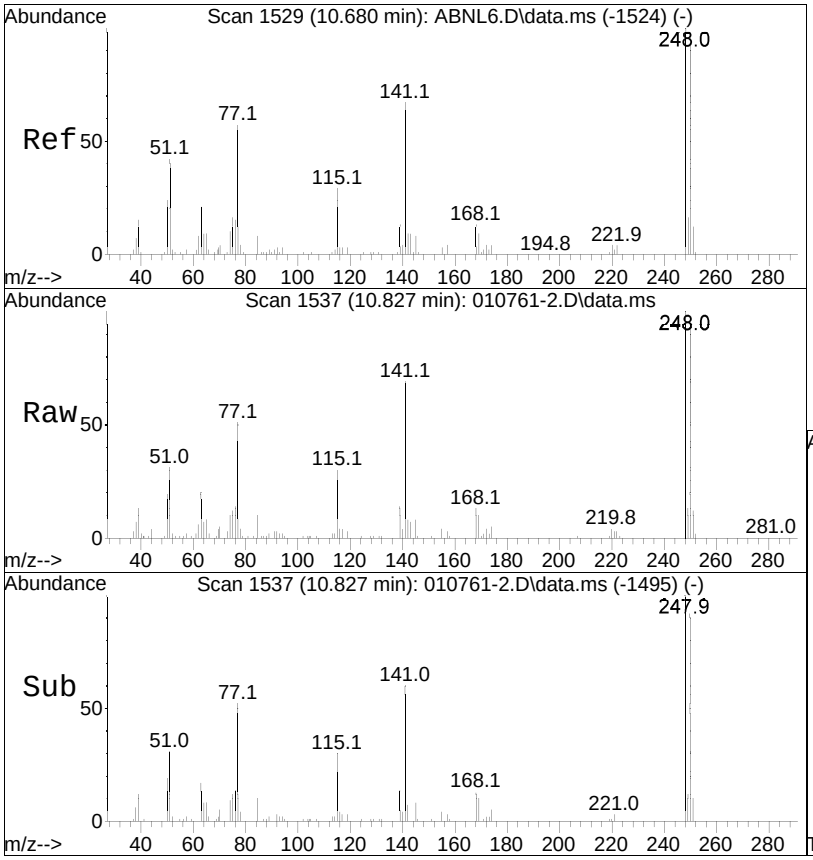


#77
NDPA/DPA
Concen: 1.39 ug/ml
RT: 10.475 min Scan# 1477
Delta R.T. 0.000 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:169 Resp: 63392

Ion	Ratio	Lower	Upper
169	100		
168	65.1	54.0	81.0
167	36.3	28.6	42.8

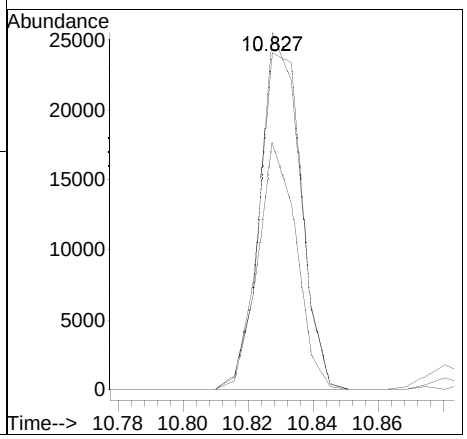


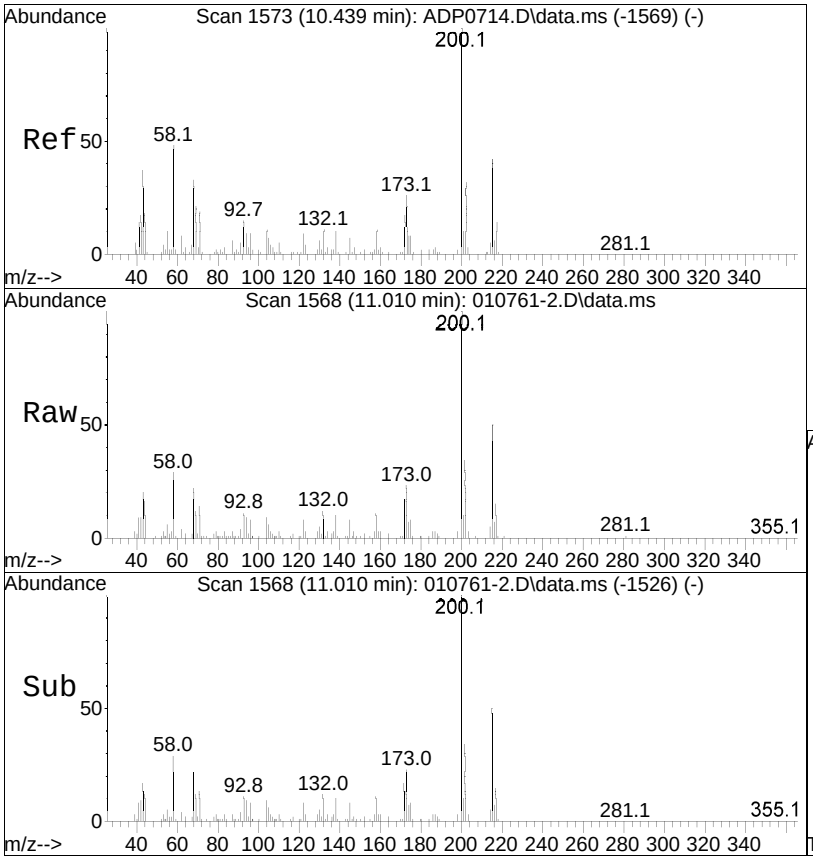


#80
4-Bromophenyl phenyl ether
Concen: 1.29 ug/ml
RT: 10.827 min Scan# 1537
Delta R.T. -0.006 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:248 Resp: 21685

Ion	Ratio	Lower	Upper
248	100		
141	67.6	76.6	114.8#
250	101.2	77.3	115.9

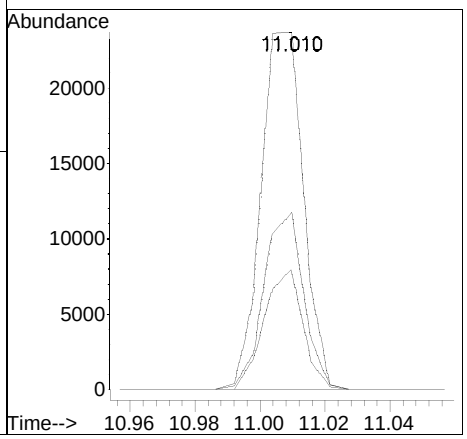


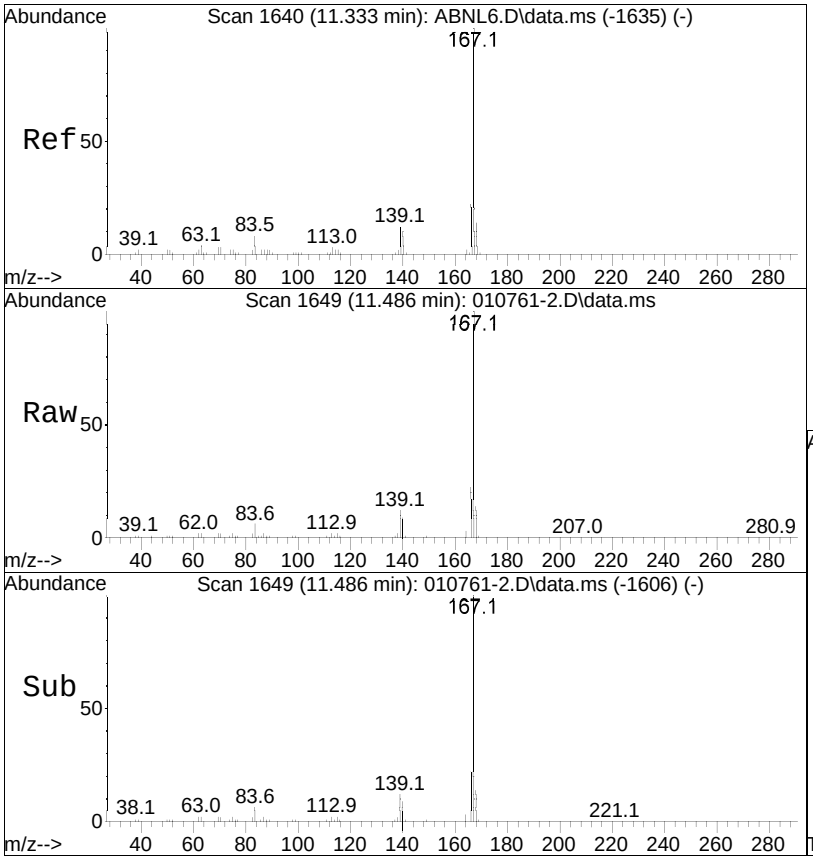


#87
Atrazine
Concen: 1.43 ug/ml
RT: 11.010 min Scan# 1568
Delta R.T. -0.000 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:200 Resp: 21368

Ion	Ratio	Lower	Upper
200	100		
202	31.0	25.8	38.6
215	46.8	40.2	60.4

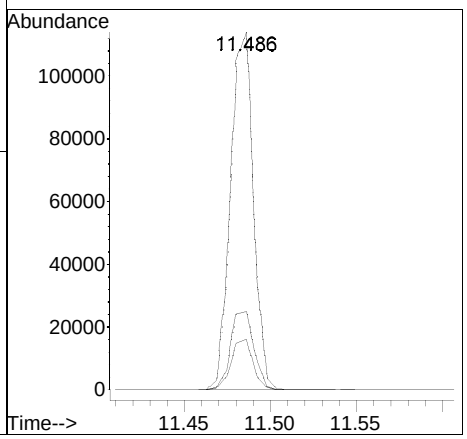


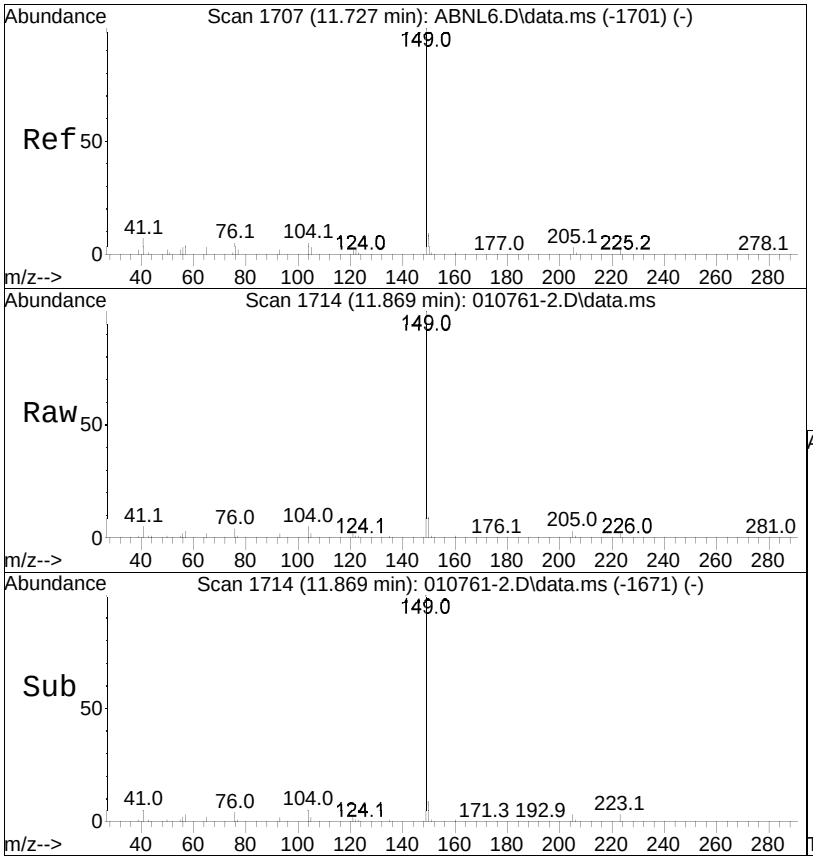


#91
Carbazole
Concen: 1.37 ug/ml
RT: 11.486 min Scan# 1649
Delta R.T. 0.000 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:167 Resp: 104040

Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.6	15.8
166	22.6	17.4	26.0

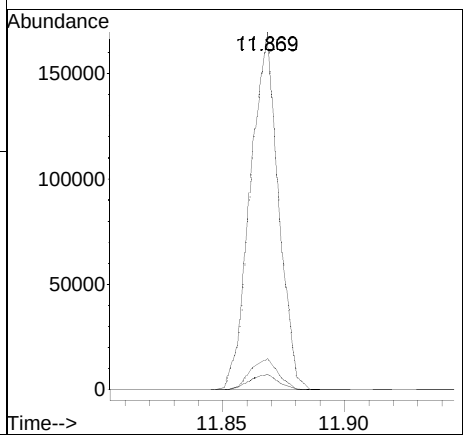


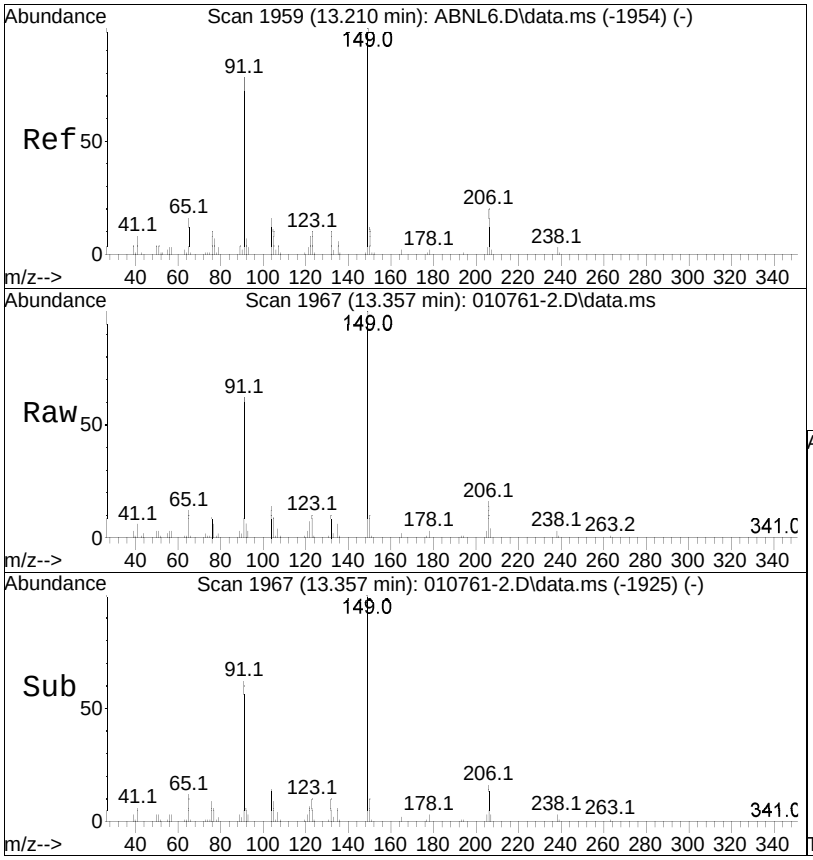


#92
Di-n-butylphthalate
Concen: 1.41 ug/ml
RT: 11.869 min Scan# 1714
Delta R.T. 0.000 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:149 Resp: 134395

Ion	Ratio	Lower	Upper
149	100		
150	8.9	7.0	10.6
104	4.8	4.5	6.7

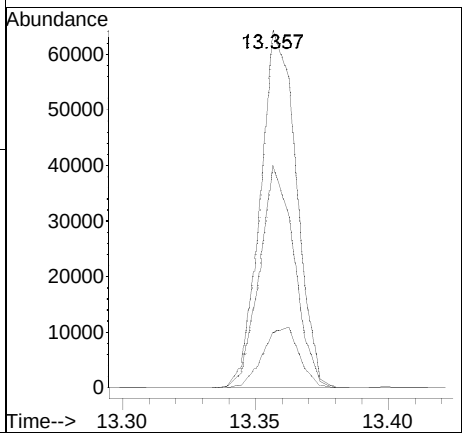


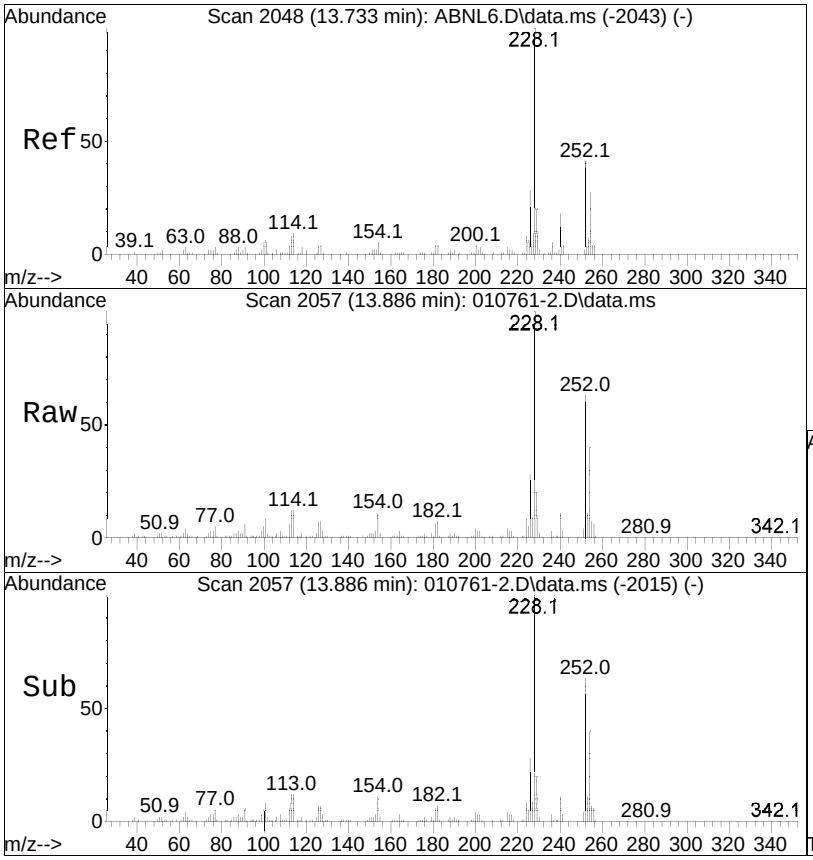


#97
Butyl benzyl phthalate
Concen: 1.50 ug/ml
RT: 13.357 min Scan# 1967
Delta R.T. -0.006 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:149 Resp: 59919

Ion	Ratio	Lower	Upper
149	100		
91	60.2	63.3	94.9#
206	17.4	13.9	20.9

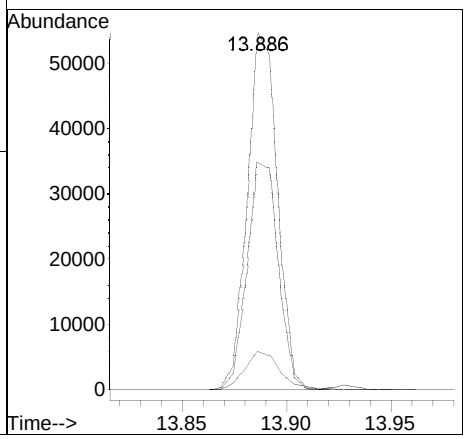


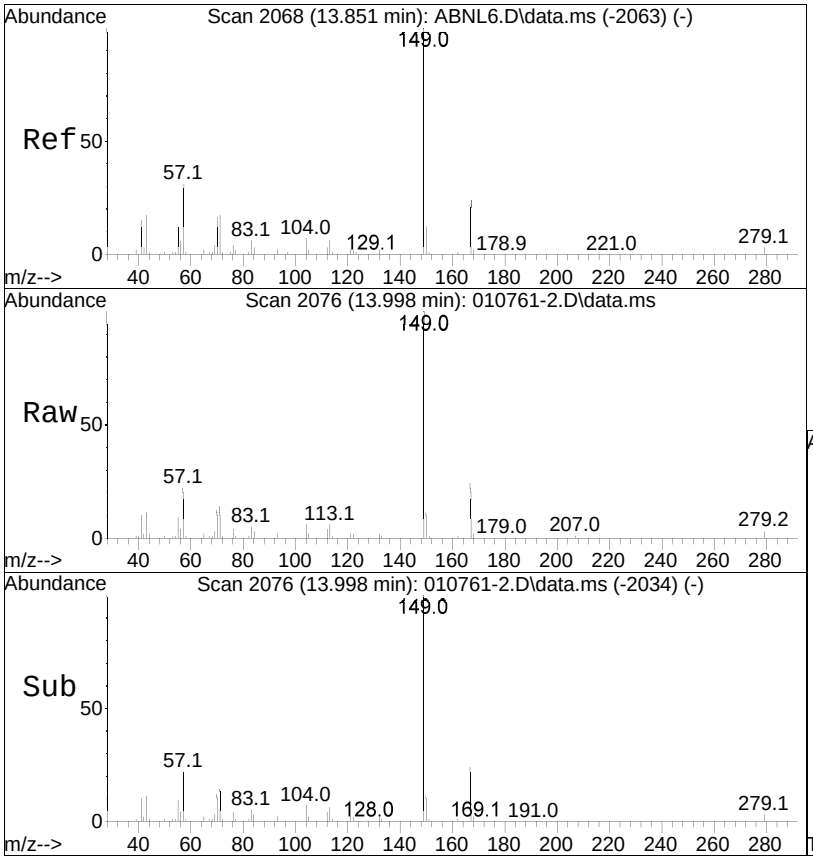


#106
3,3'-Dichlorobenzidine
Concen: 1.51 ug/ml
RT: 13.886 min Scan# 2057
Delta R.T. -0.006 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:252 Resp: 54676

Ion	Ratio	Lower	Upper
252	100		
126	12.8	14.5	21.7#
254	65.7	51.2	76.8

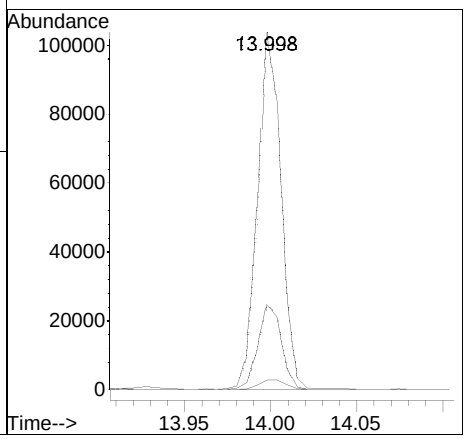


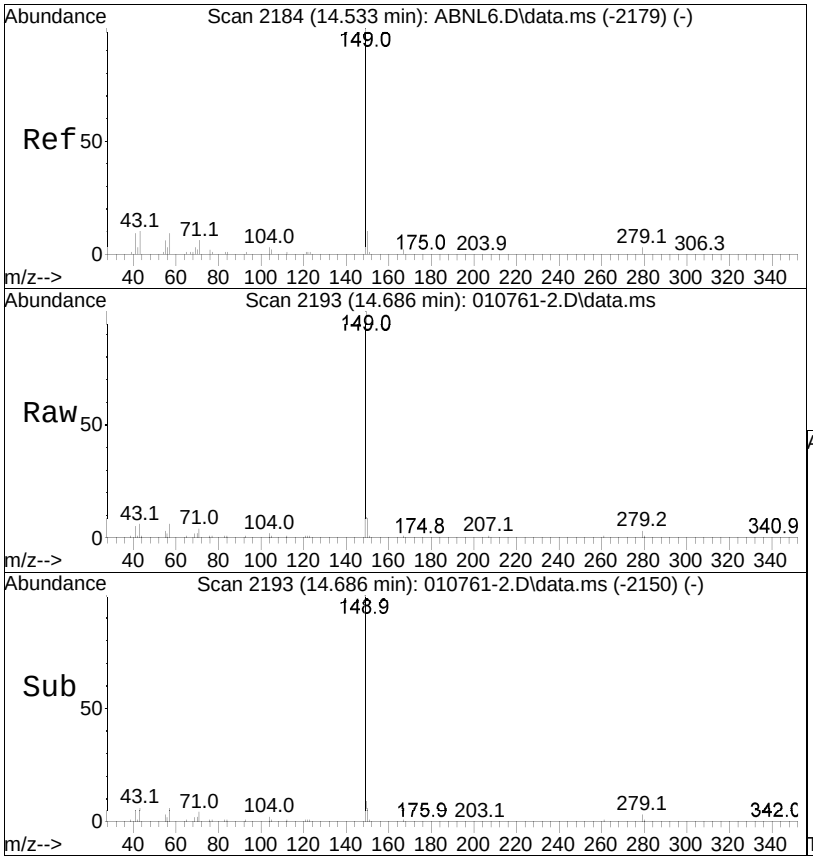


#108
Bis(2-ethylhexyl)phthalate
Concen: 1.46 ug/ml
RT: 13.998 min Scan# 2076
Delta R.T. -0.006 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:149 Resp: 96679

Ion	Ratio	Lower	Upper
149	100		
167	24.0	22.1	33.1
279	2.9	3.0	4.4#

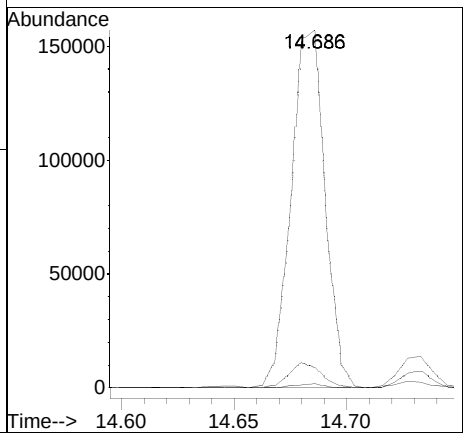




#109
Di-n-octylphthalate
Concen: 1.49 ug/ml
RT: 14.686 min Scan# 2193
Delta R.T. 0.000 min
Lab File: 010761-2.D
Acq: 19 Dec 2024 1:05 am

Tgt Ion:149 Resp: 163292

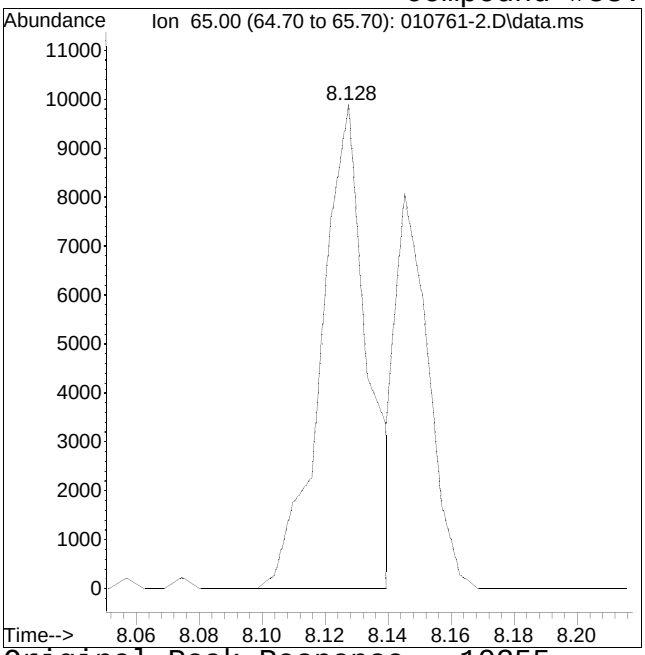
Ion	Ratio	Lower	Upper
149	100		
43	6.6	18.8	28.2#
167	1.3	1.3	1.9#



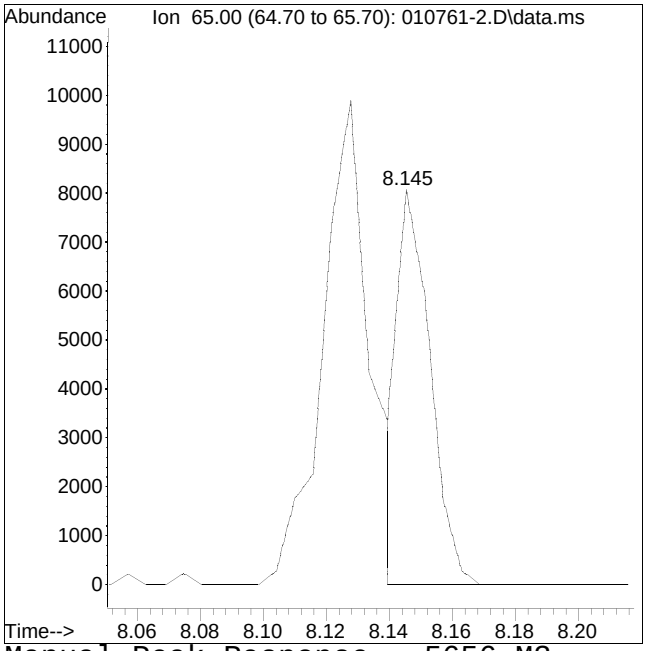
Manual Integration Report

Data Path : I:\8270\SV106\241218RVT\ QMethod : FS241009SV106.m
Data File : 010761-2.D Operator : SV106:im
Date Inj'd : 12/19/2024 1:05 am Instrument : SV 106
Sample : WG2010761-2,32,,ASK Quant Date : 12/19/2024 1:25 am

Compound #38: 4-Chloroaniline



Original Peak Response = 10355



Manual Peak Response = 5656 M3

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241218RVT\
Data File : 010761-3.D
Acq On : 19 Dec 2024 1:29 am
Operator : SV106:im
Sample : WG2010761-3,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 19 10:14:14 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241218RVT\ABN1218.D
: 2 - I:\8270\SV106\241218RVT\ADP1218.D
: 3 - I:\8270\SV106\241218RVT\AP91218.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.640	152	66163	4.000	ug/ml	0.00
Standard Area 1 = 49612			Recovery = 133.36%			
27) IS2_1,4-Dichlorobenzen...	6.640	152	66163	4.000	ug/ml	0.00
Standard Area 3 = 57665			Recovery = 114.74%			
32) IS3_1,4-Dichlorobenzen...	6.640	152	66163	4.000	ug/ml	0.00
Standard Area 2 = 50150			Recovery = 131.93%			
35) IS1_Naphthalene-d8	8.045	136	253842	4.000	ug/ml	0.00
Standard Area 1 = 183058			Recovery = 138.67%			
55) IS2_Naphthalene-d8	8.045	136	253842	4.000	ug/ml	0.00
Standard Area 3 = 207211			Recovery = 122.50%			
63) IS1_Acenaphthene-d10	9.804	164	151670	4.000	ug/ml	0.00
Standard Area 1 = 122903			Recovery = 123.41%			
83) IS2_Acenaphthene-d10	9.804	164	151670	4.000	ug/ml	0.00
Standard Area 3 = 120872			Recovery = 125.48%			
86) IS3_Acenaphthene-d10	9.804	164	151670	4.000	ug/ml	0.00
Standard Area 2 = 113815			Recovery = 133.26%			
88) IS1_Phenanthrene-d10	11.245	188	300974	4.000	ug/ml	0.00
Standard Area 1 = 229574			Recovery = 131.10%			
100) IS3_Phenanthrene-d10	11.245	188	300974	4.000	ug/ml	0.00
Standard Area 2 = 236979			Recovery = 127.00%			
104) IS1_Chrysene-d12	13.904	240	322707	4.000	ug/ml	0.00
Standard Area 1 = 264435			Recovery = 122.04%			
113) IS1_Perylene-d12	15.380	264	369436	4.000	ug/ml	0.00
Standard Area 1 = 304444			Recovery = 121.35%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.846	112	15389	0.748	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 37.40%			
7) Phenol-d6	6.269	99	13316	0.537	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 26.85%			
19) Nitrobenzene-d5	7.287	82	10579	0.471	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 47.10%			
46) 2-Fluorobiphenyl	9.163	172	28593	0.487	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 48.70%			
79) 2,4,6-Tribromophenol	10.575	330	10162	1.184	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 59.20%			

Data Path : I:\8270\SV106\241218RVT\
Data File : 010761-3.D
Acq On : 19 Dec 2024 1:29 am
Operator : SV106:im
Sample : WG2010761-3,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 19 10:14:14 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241218RVT\ABN1218.D
: 2 - I:\8270\SV106\241218RVT\ADP1218.D
: 3 - I:\8270\SV106\241218RVT\AP91218.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	12.833	244	44547	0.552	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 55.20%

Target Compounds						Qvalue
6) 2-Chlorophenol	6.387	128	22479	0.995	ug/ml#	85
8) Phenol	6.281	94	14988	0.583	ug/ml	96
14) Bis(2-chloroisopropyl)...	7.010	45	22044	0.662	ug/ml#	29
15) 2-Methylphenol	7.004	108	17181	0.925	ug/ml	98
17) n-Nitrosodi-n-propylamine	7.157	70	14852	0.955	ug/ml	98
18) 3-Methylphenol/4-Methy...	7.187	108	18017	0.889	ug/ml	96
20) Nitrobenzene	7.304	77	20446	0.890	ug/ml	91
21) Isophorone	7.581	82	39476	0.988	ug/ml#	99
22) 2-Nitrophenol	7.657	139	12734	1.080	ug/ml#	85
23) 2,4-Dimethylphenol	7.751	107	11608	0.627	ug/ml	96
24) Bis(2-chloroethoxy)met...	7.845	93	26638	0.998	ug/ml	97
25) 2,4-Dichlorophenol	7.916	162	21753	1.052	ug/ml#	95
28) Benzaldehyde	6.087	105	17236	1.100	ug/ml	89
29) Acetophenone	7.128	105	34304	1.134	ug/ml#	82
38) 4-Chloroaniline	8.145	65	4625	0.575	ug/ml	86
40) p-Chloro-m-cresol	8.663	107	20143	1.071	ug/ml	95
43) Hexachlorocyclopentadiene	8.957	237	8386	0.505	ug/ml	94
44) 2,4,6-Trichlorophenol	9.075	196	17928	1.027	ug/ml	97
45) 2,4,5-Trichlorophenol	9.104	196	19474	1.077	ug/ml	99
48) 2-Nitroaniline	9.369	138	16362	1.155	ug/ml#	73
51) Dimethyl phthalate	9.575	163	64209	1.106	ug/ml#	97
53) 2,6-Dinitrotoluene	9.616	165	12586	1.067	ug/ml#	73
60) Caprolactam	8.481	55	3416	0.367	ug/ml#	63
61) 1,2,4,5-Tetrachloroben...	8.957	216	24059	0.943	ug/ml	97
62) Biphenyl	9.251	154	58339	1.014	ug/ml	98
64) 3-Nitroaniline	9.775	138	13361	1.091	ug/ml#	82
66) 2,4-Dinitrophenol	9.875	184	7390	1.958	ug/ml#	83
67) Dibenzofuran	10.010	168	71121	1.002	ug/ml	97
68) 2,4-Dinitrotoluene	10.004	165	18205	1.145	ug/ml#	81
69) 4-Nitrophenol	9.957	65	6421	0.709	ug/ml#	72
72) Diethyl phthalate	10.263	149	63094	1.096	ug/ml	100
74) 4-Chlorophenyl phenyl ...	10.357	204	28154	0.990	ug/ml	91
75) 4-Nitroaniline	10.363	138	14057	1.128	ug/ml#	71

Data Path : I:\8270\SV106\241218RVT\
Data File : 010761-3.D
Acq On : 19 Dec 2024 1:29 am
Operator : SV106:im
Sample : WG2010761-3,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 19 10:14:14 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241218RVT\ABN1218.D
: 2 - I:\8270\SV106\241218RVT\ADP1218.D
: 3 - I:\8270\SV106\241218RVT\AP91218.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
76) 4,6-Dinitro-o-cresol	10.398	198	10792	1.277 ug/ml#	58
77) NDPA/DPA	10.469	169	50066	1.047 ug/ml	97
80) 4-Bromophenyl phenyl e...	10.828	248	19241	1.092 ug/ml#	82
87) Atrazine	11.010	200	16457	1.046 ug/ml	96
91) Carbazole	11.480	167	85561	1.079 ug/ml	99
92) Di-n-butylphthalate	11.869	149	108696	1.095 ug/ml	99
97) Butyl benzyl phthalate	13.357	149	48596	1.165 ug/ml#	82
106) 3,3'-Dichlorobenzidine	13.886	252	42613	1.166 ug/ml#	94
108) Bis(2-ethylhexyl)phtha...	13.998	149	75385	1.128 ug/ml	93
109) Di-n-octylphthalate	14.680	149	126649	1.143 ug/ml#	67

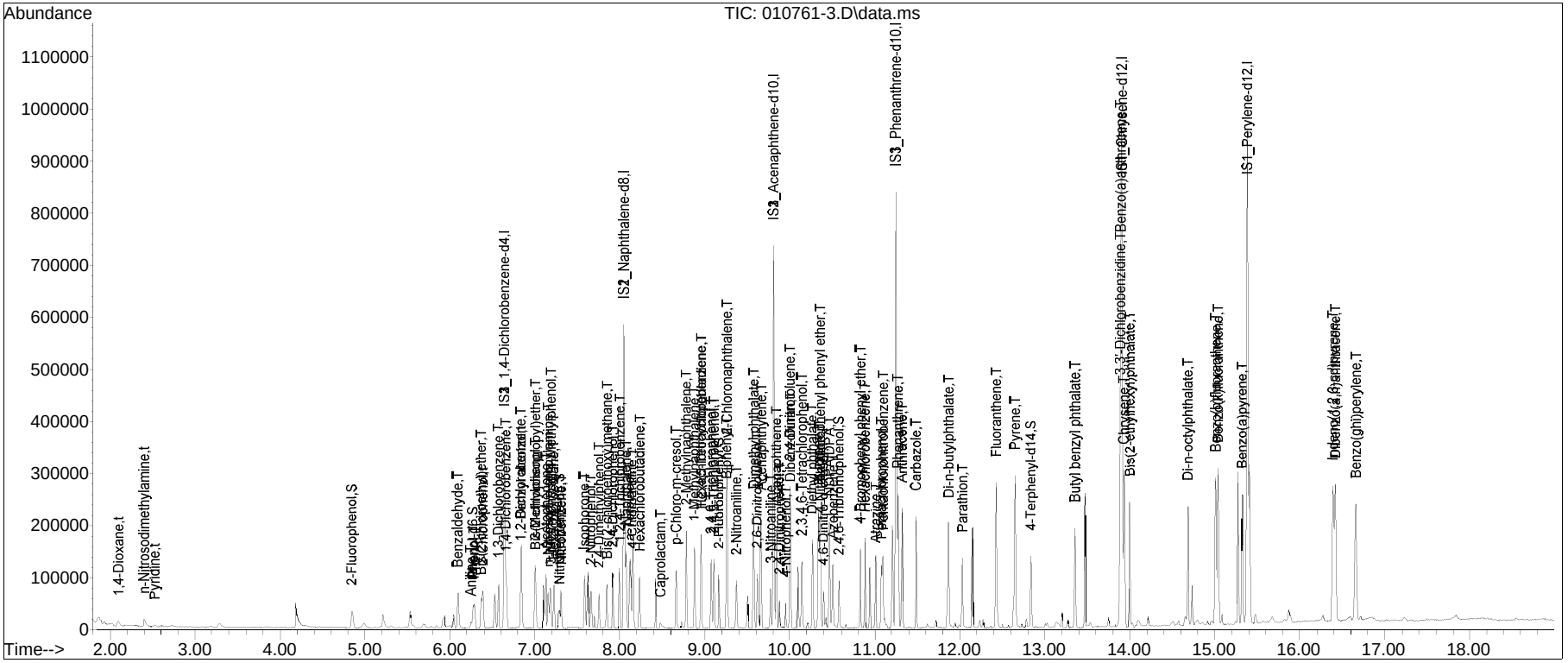
(#) = qualifier out of range (m) = manual integration (+) = signals summed

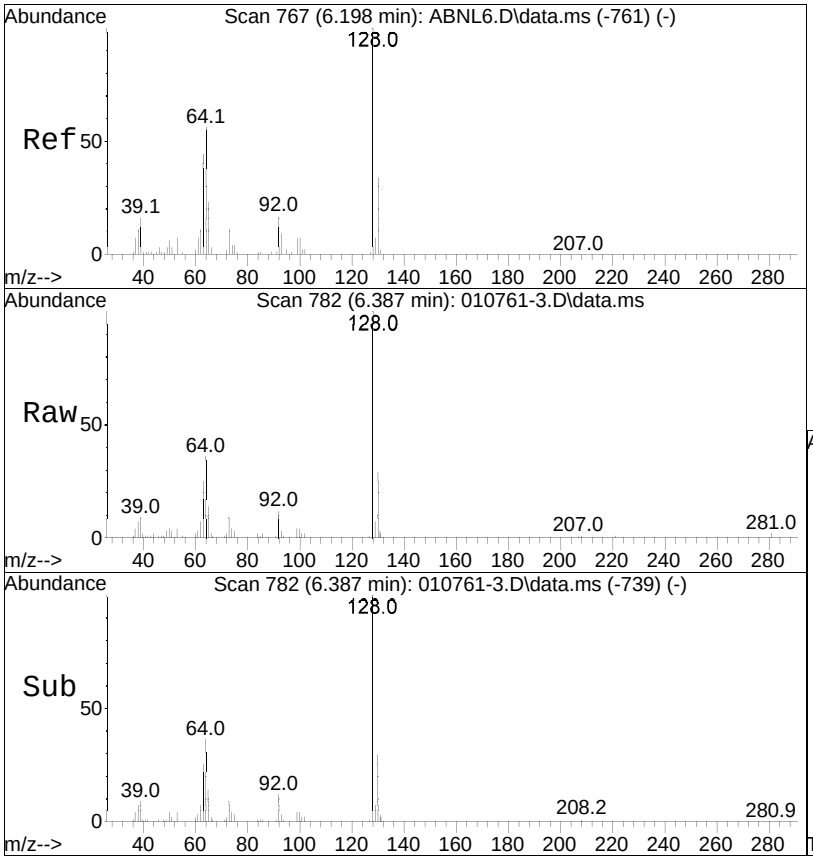
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241218RVT\
Data File : 010761-3.D
Acq On : 19 Dec 2024 1:29 am
Operator : SV106:im
Sample : WG2010761-3,32,,ASK
Misc : WG2011026,WG2010761,ical21604
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 19 10:14:14 2024
Quant Method : I:\8270\SV106\241218RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 18 23:38:14 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MARVT\AP91218.D•

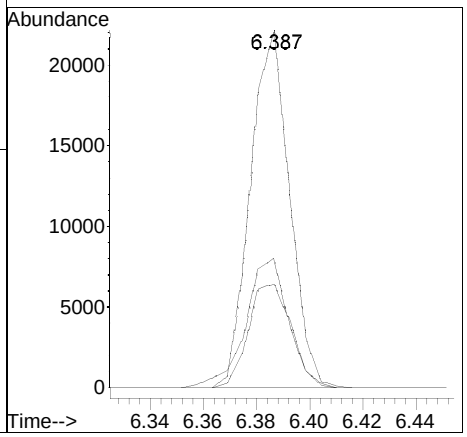


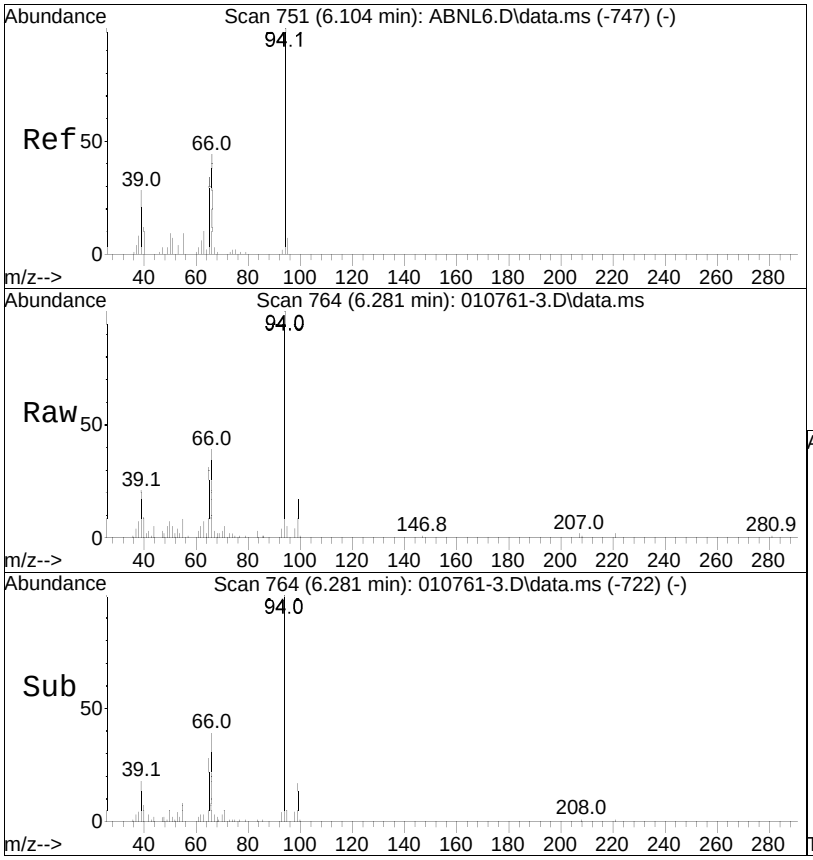


#6
2-Chlorophenol
Concen: 1.00 ug/ml
RT: 6.387 min Scan# 782
Delta R.T. 0.000 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:128 Resp: 22479

Ion	Ratio	Lower	Upper
128	100		
64	39.6	45.1	67.7#
130	32.2	26.2	39.4

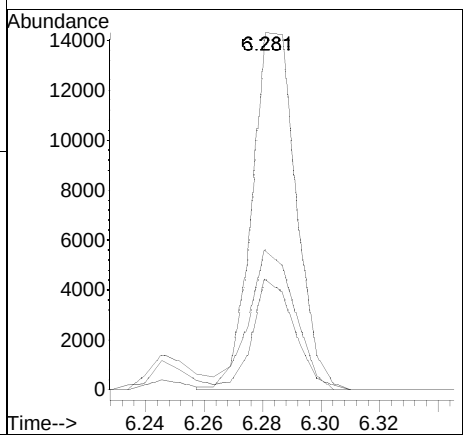


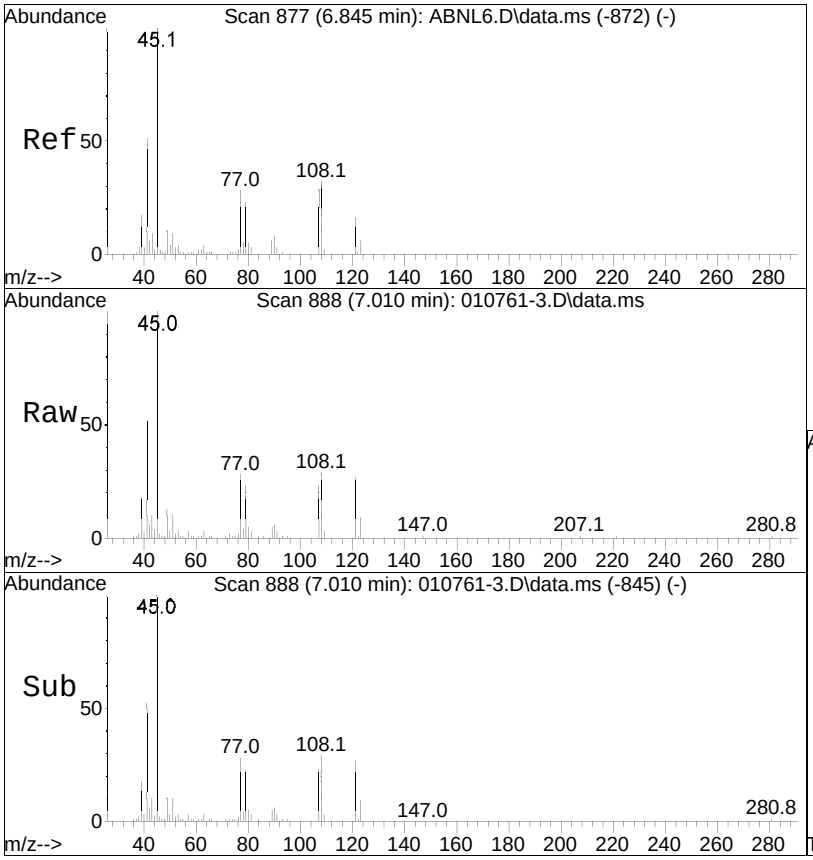


#8
Phenol
Concen: 0.58 ug/ml
RT: 6.281 min Scan# 764
Delta R.T. -0.006 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion: 94 Resp: 14988

Ion	Ratio	Lower	Upper
94	100		
65	29.8	26.0	39.0
66	40.6	33.8	50.8

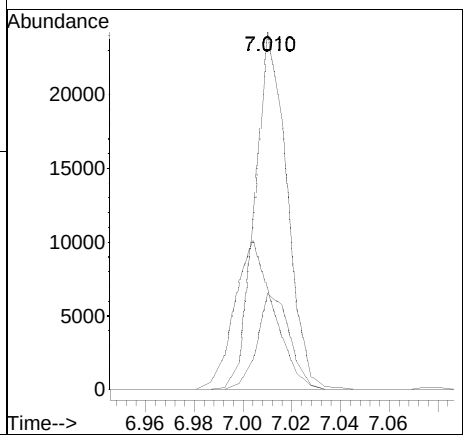


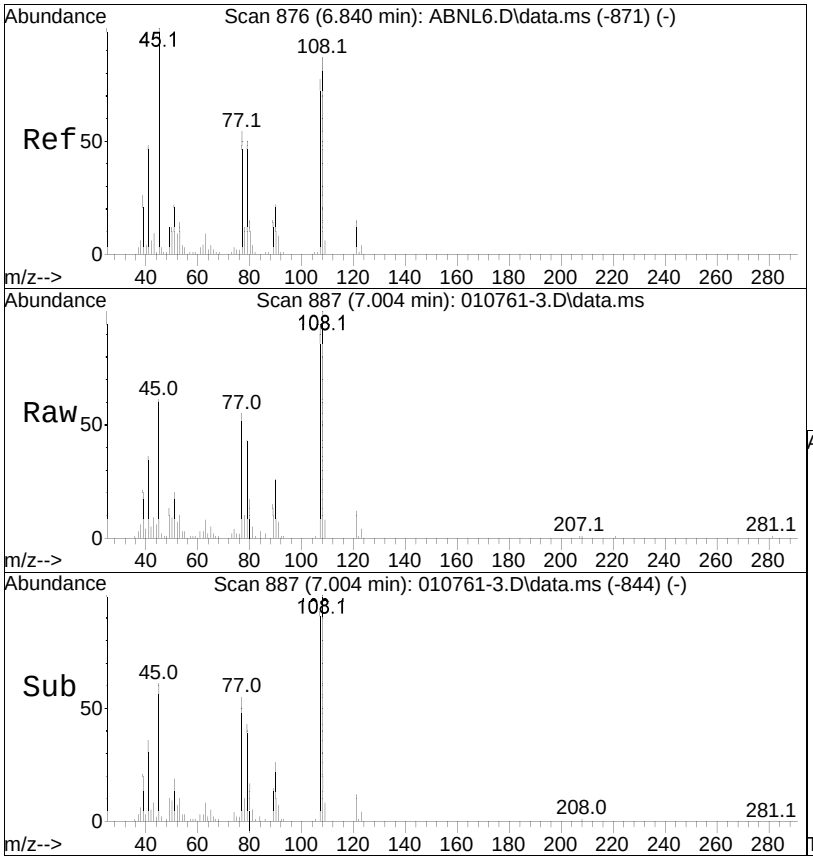


#14
Bis(2-chloroisopropyl)ether
Concen: 0.66 ug/ml
RT: 7.010 min Scan# 888
Delta R.T. 0.000 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion: 45 Resp: 22044

Ion	Ratio	Lower	Upper
45	100		
121	27.2	9.8	14.6#
77	51.1	6.1	9.1#

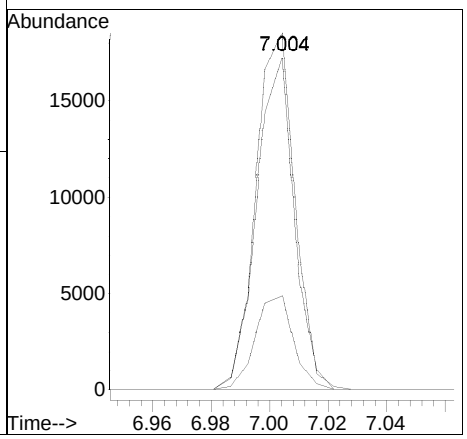


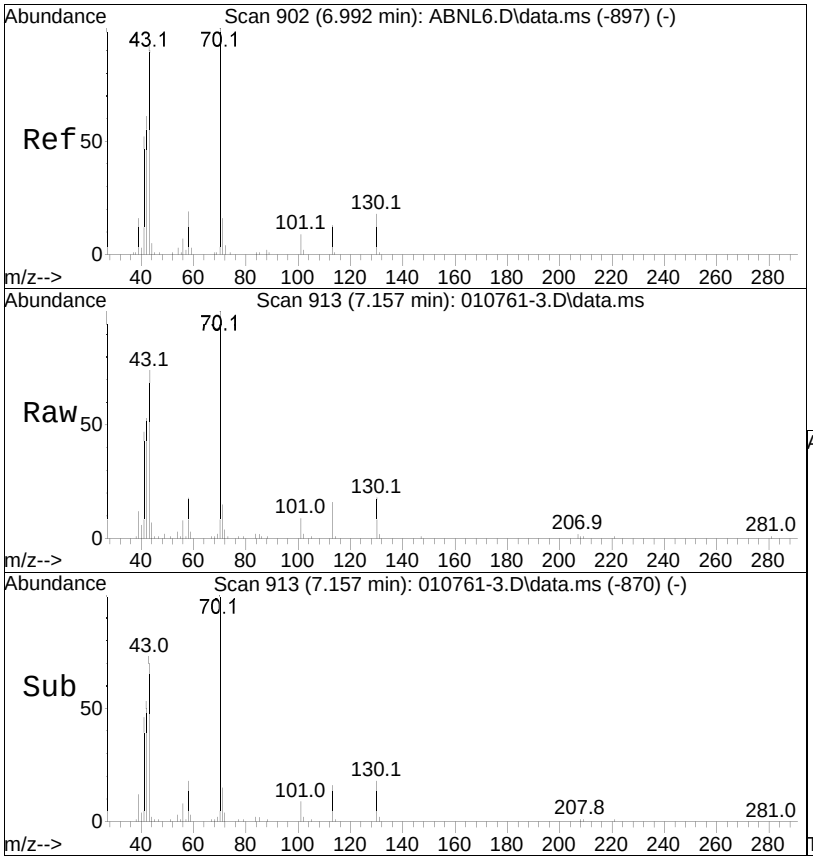


#15
2-Methylphenol
Concen: 0.92 ug/ml
RT: 7.004 min Scan# 887
Delta R.T. 0.000 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:108 Resp: 17181

Ion	Ratio	Lower	Upper
108	100		
107	89.6	70.7	106.1
90	26.0	18.7	28.1

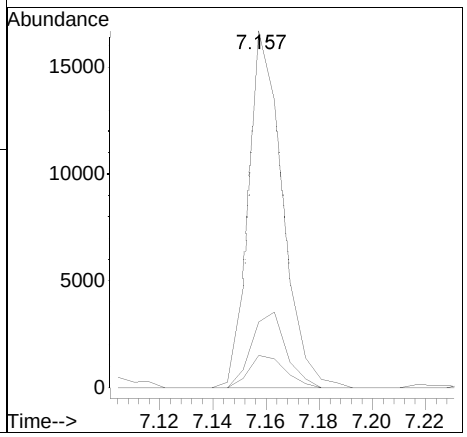


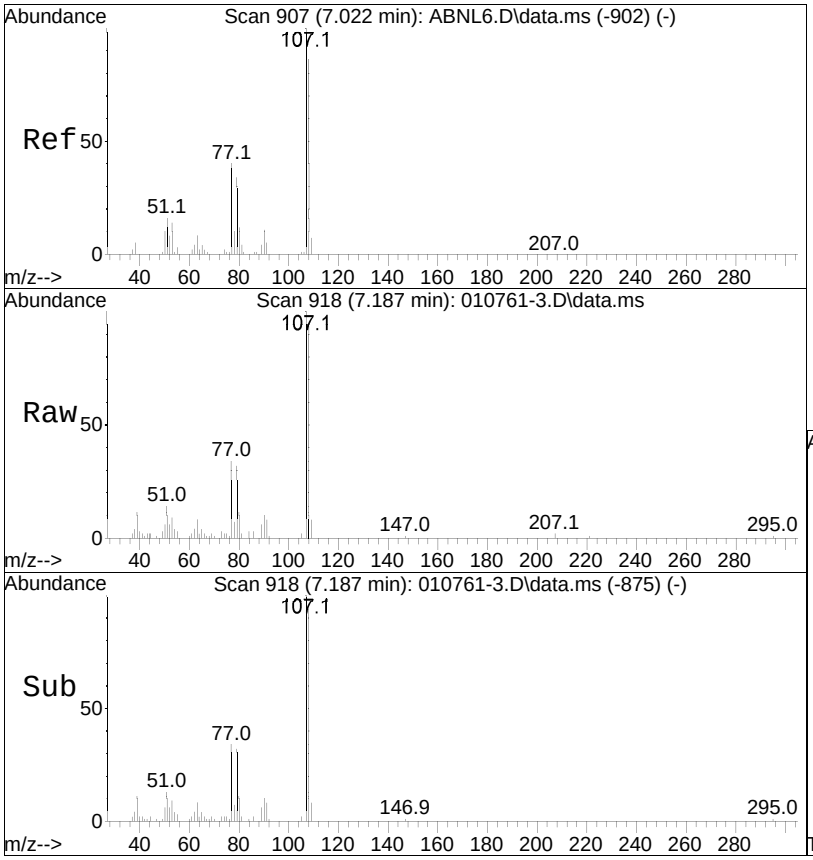


#17
n-Nitrosodi-n-propylamine
Concen: 0.96 ug/ml
RT: 7.157 min Scan# 913
Delta R.T. 0.000 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion: 70 Resp: 14852

Ion	Ratio	Lower	Upper
70	100		
130	21.5	18.2	27.4
101	9.7	7.8	11.8

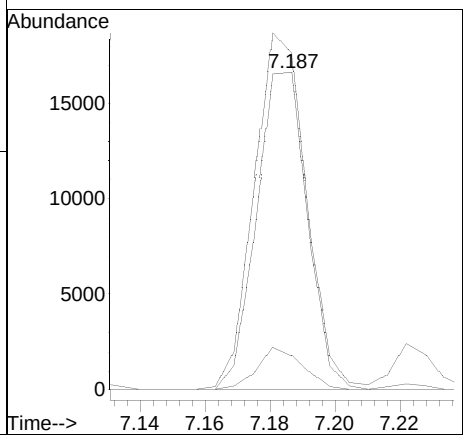


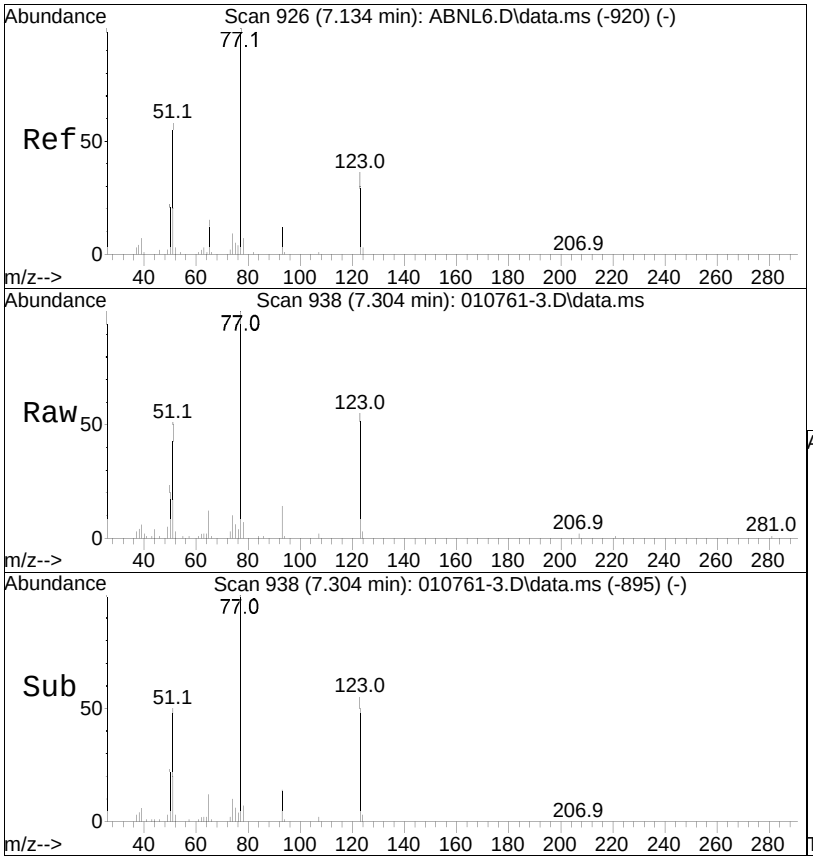


#18
3-Methylphenol/4-Methylphenol
Concen: 0.89 ug/ml
RT: 7.187 min Scan# 918
Delta R.T. 0.000 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:108 Resp: 18017

Ion	Ratio	Lower	Upper
108	100		
107	115.7	88.6	132.8
90	11.9	8.8	13.2

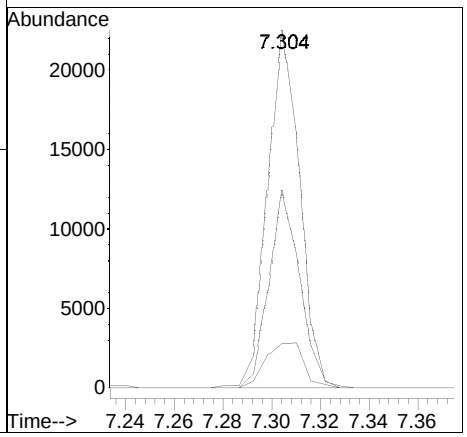


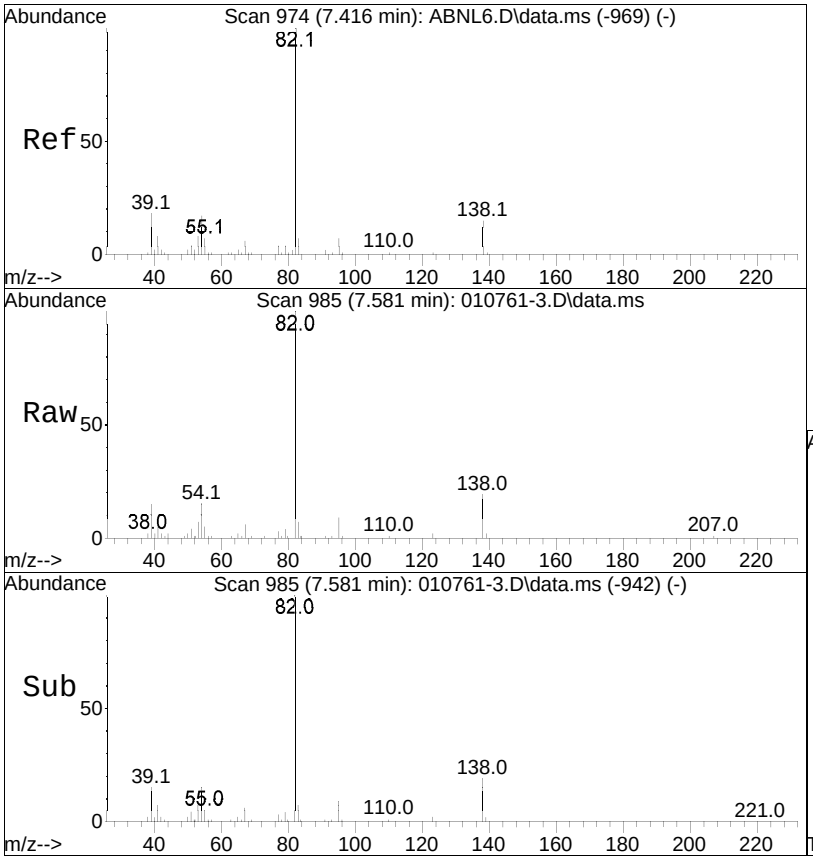


#20
Nitrobenzene
Concen: 0.89 ug/ml
RT: 7.304 min Scan# 938
Delta R.T. 0.000 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion: 77 Resp: 20446

Ion	Ratio	Lower	Upper
77	100		
123	52.9	36.3	54.5
65	15.2	11.6	17.4

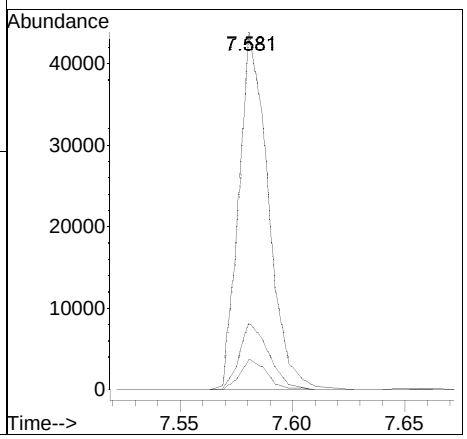


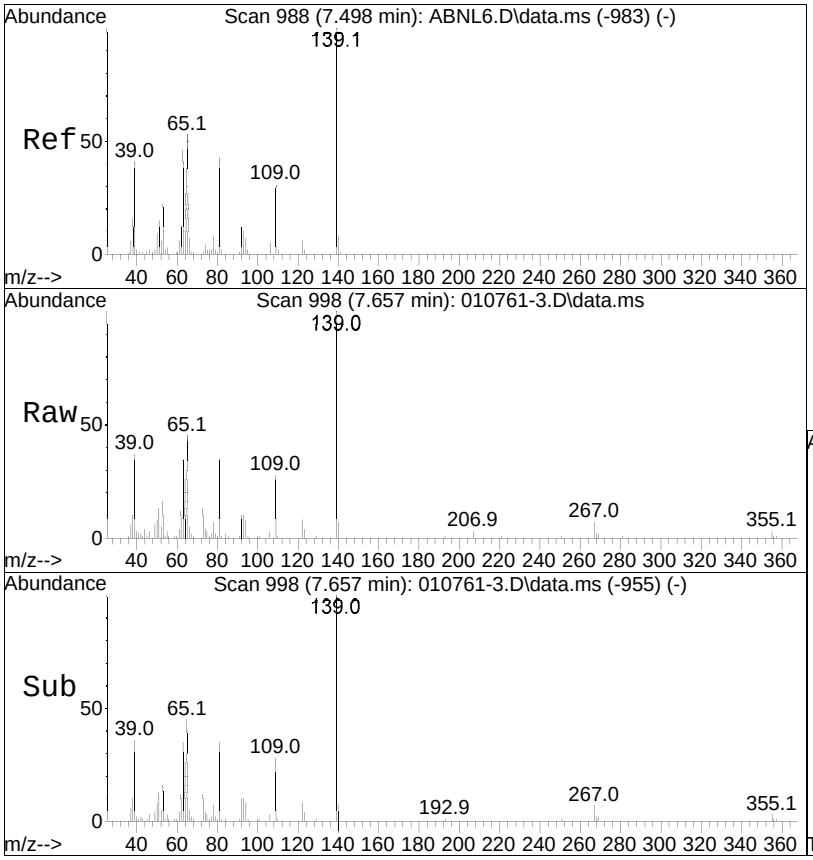


#21
Isophorone
Concen: 0.99 ug/ml
RT: 7.581 min Scan# 985
Delta R.T. 0.000 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion: 82 Resp: 39476

Ion	Ratio	Lower	Upper
82	100		
138	18.6	14.7	22.1
95	7.9	5.2	7.8#

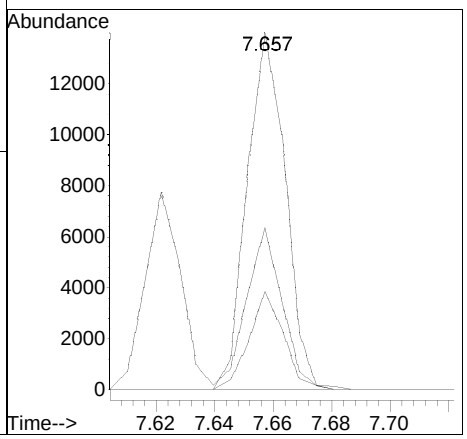


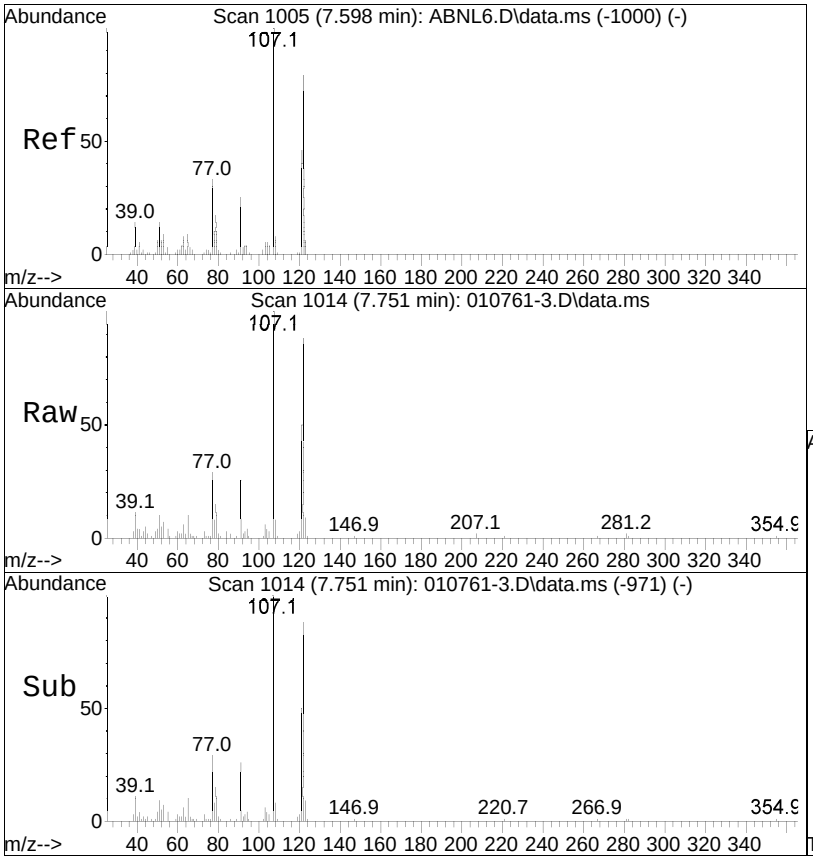


#22
2-Nitrophenol
Concen: 1.08 ug/ml
RT: 7.657 min Scan# 998
Delta R.T. 0.000 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:139 Resp: 12734

Ion	Ratio	Lower	Upper
139	100		
109	24.8	19.4	29.0
65	42.3	46.1	69.1#

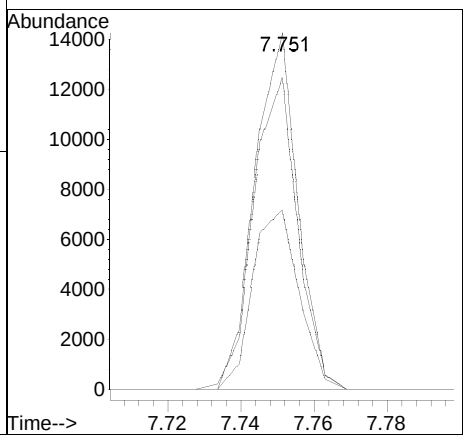


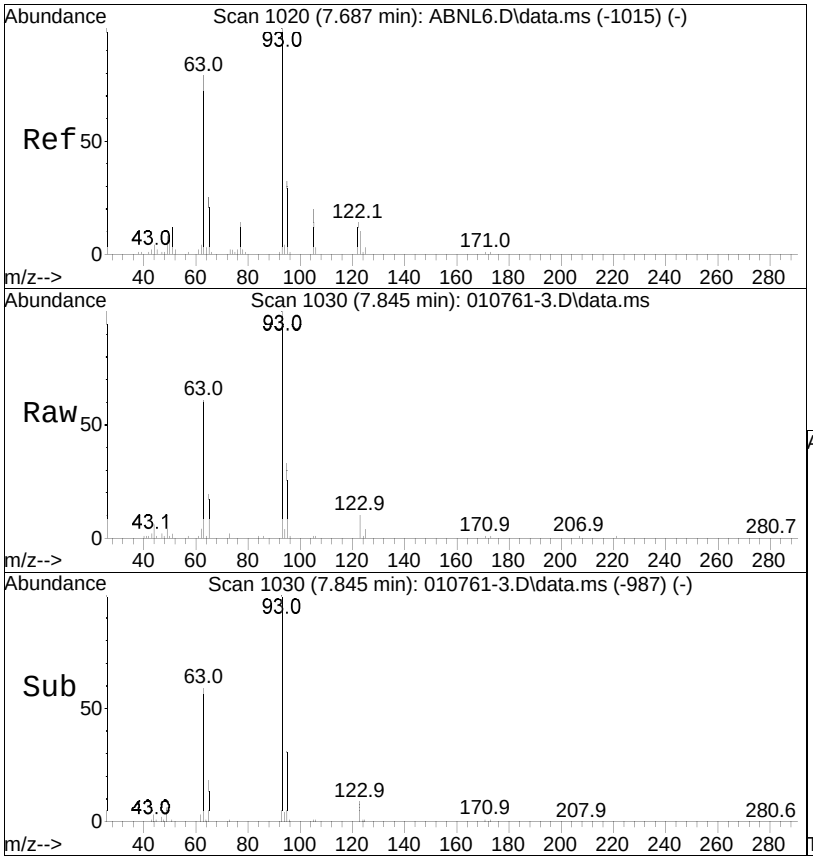


#23
2,4-Dimethylphenol
Concen: 0.63 ug/ml
RT: 7.751 min Scan# 1014
Delta R.T. 0.000 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:107 Resp: 11608

Ion	Ratio	Lower	Upper
107	100		
121	54.5	40.0	60.0
122	89.7	70.2	105.4

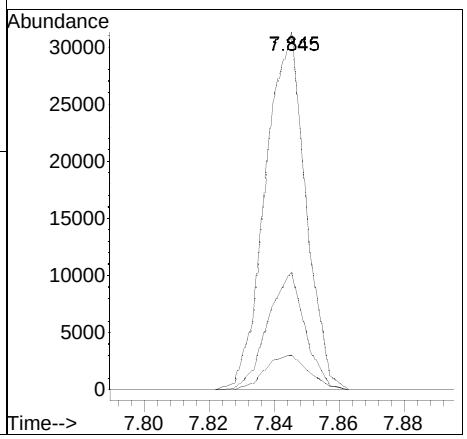


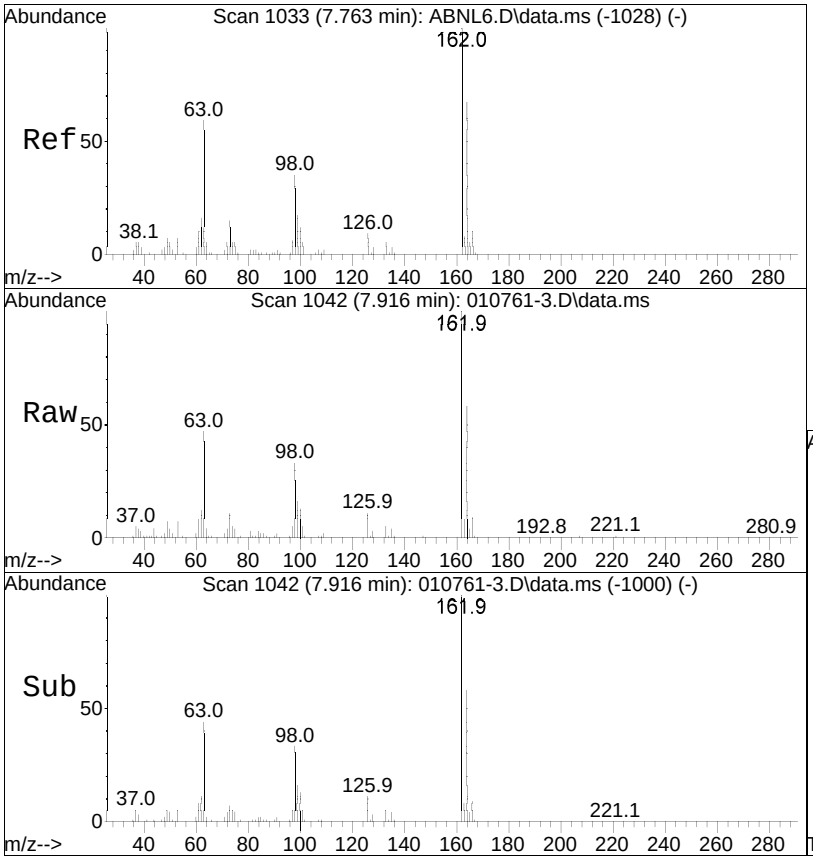


#24
Bis(2-chloroethoxy)methane
Concen: 1.00 ug/ml
RT: 7.845 min Scan# 1030
Delta R.T. 0.000 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion: 93 Resp: 26638

Ion	Ratio	Lower	Upper
93	100		
95	30.8	25.8	38.8
123	10.5	10.1	15.1

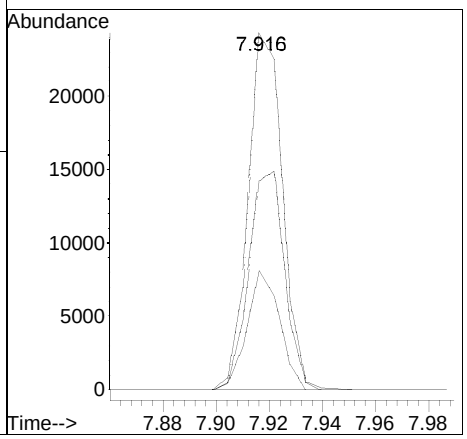


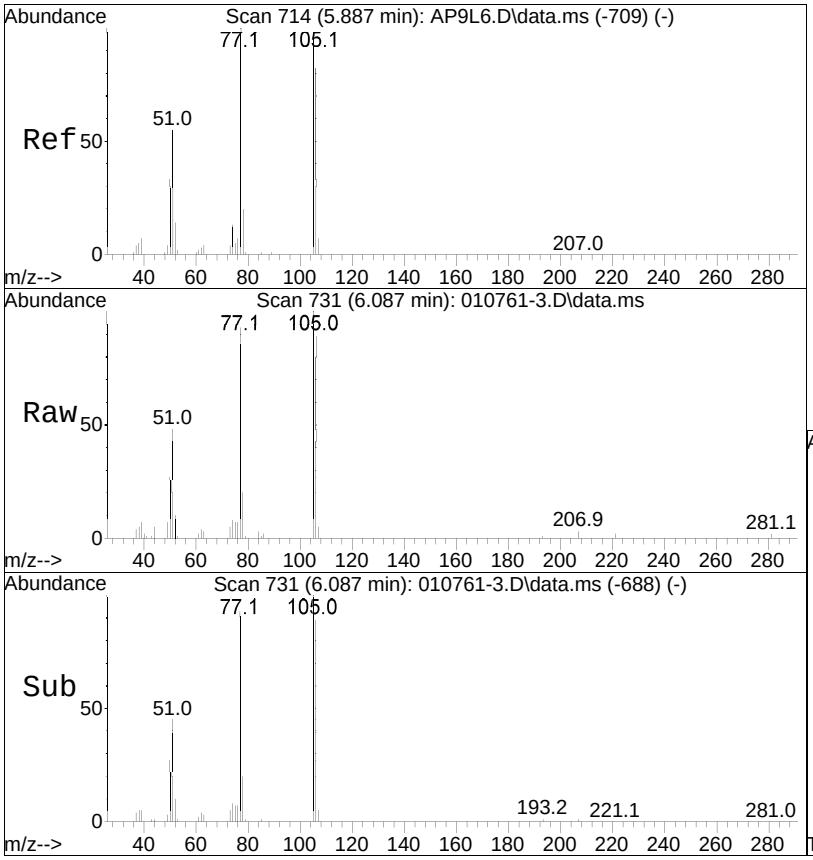


#25
2,4-Dichlorophenol
Concen: 1.05 ug/ml
RT: 7.916 min Scan# 1042
Delta R.T. -0.006 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:162 Resp: 21753

Ion	Ratio	Lower	Upper
162	100		
164	63.9	51.0	76.4
98	31.8	32.2	48.2#

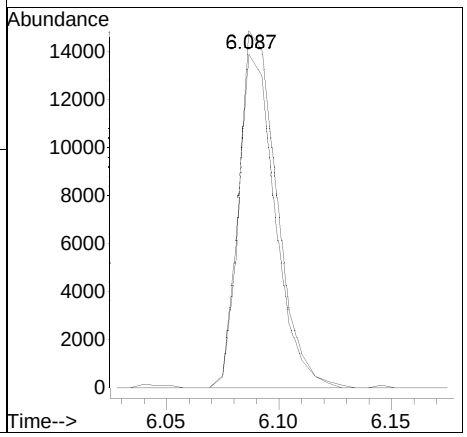


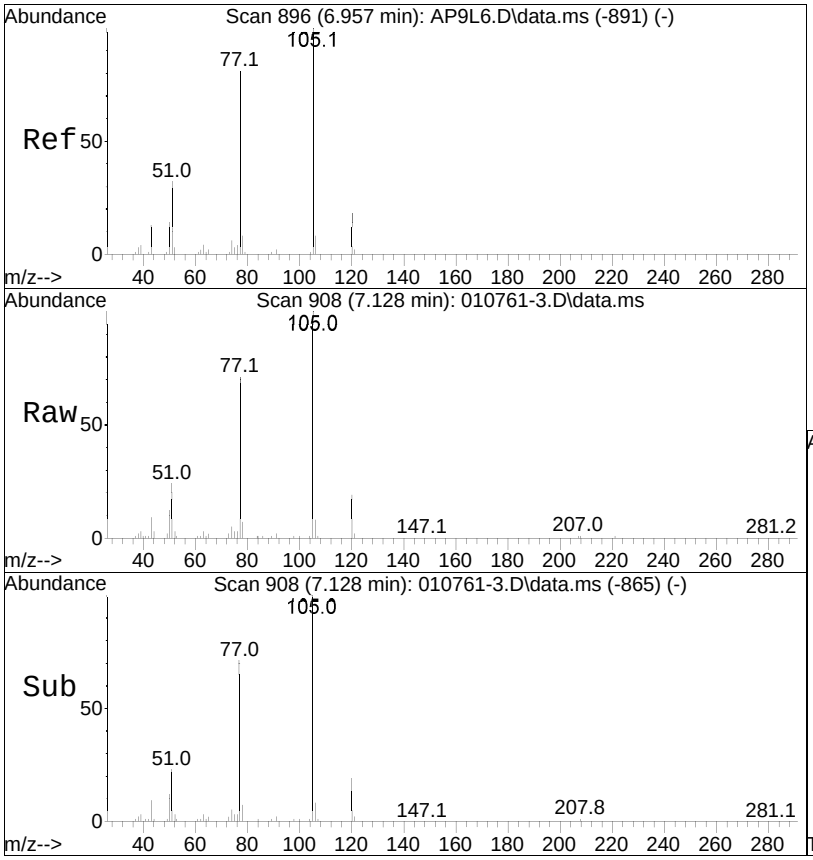


#28
Benzaldehyde
Concen: 1.10 ug/ml
RT: 6.087 min Scan# 731
Delta R.T. 0.000 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:105 Resp: 17236

Ion	Ratio	Lower	Upper
105	100		
77	91.8	82.2	123.4

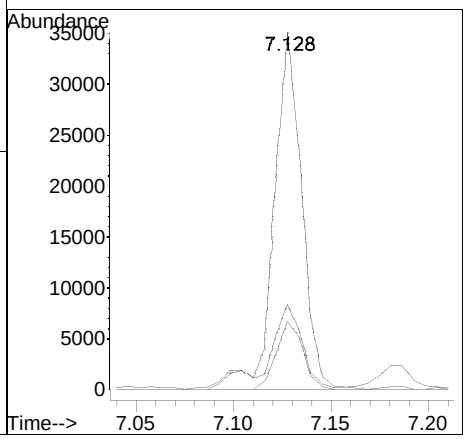


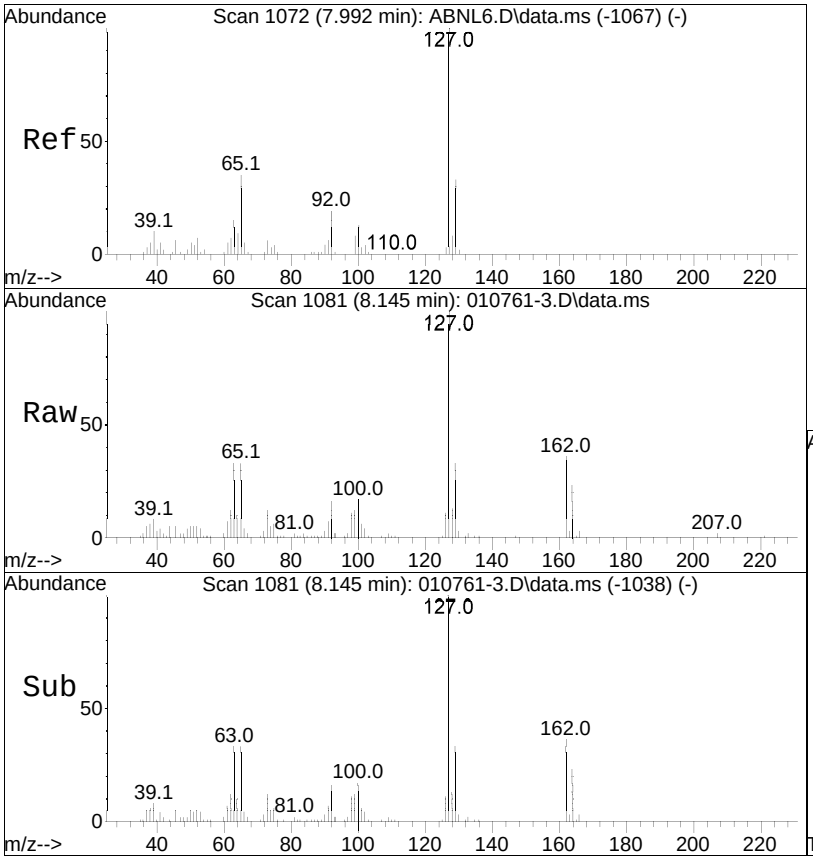


#29
Acetophenone
Concen: 1.13 ug/ml
RT: 7.128 min Scan# 908
Delta R.T. 0.000 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:105 Resp: 34304

Ion	Ratio	Lower	Upper
105	100		
120	18.3	20.5	30.7#
51	30.2	34.9	52.3#

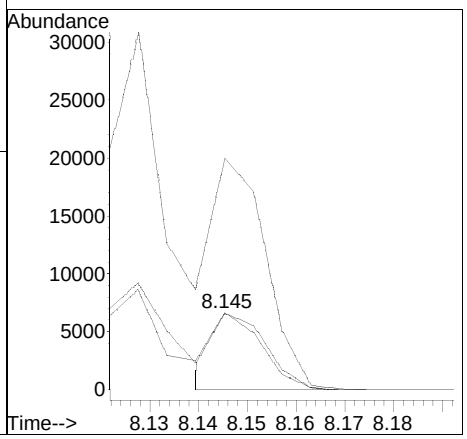


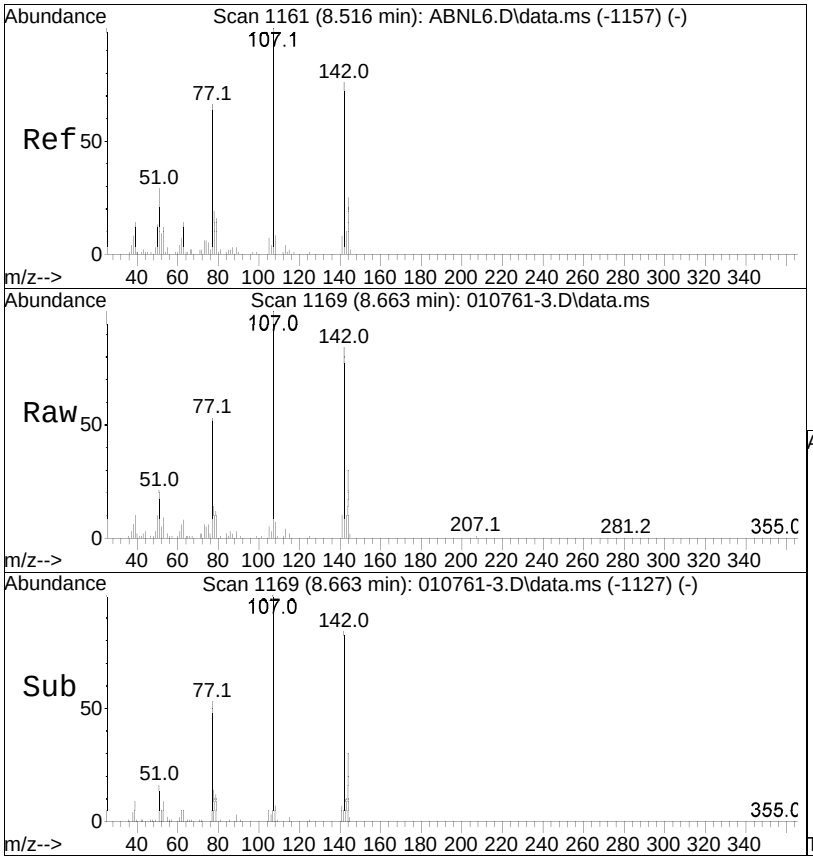


#38
4-Chloroaniline
Concen: 0.58 ug/ml
RT: 8.145 min Scan# 1081
Delta R.T. 0.000 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion: 65 Resp: 4625

Ion	Ratio	Lower	Upper
65	100		
127	326.2	237.6	356.4
129	107.3	76.3	114.5

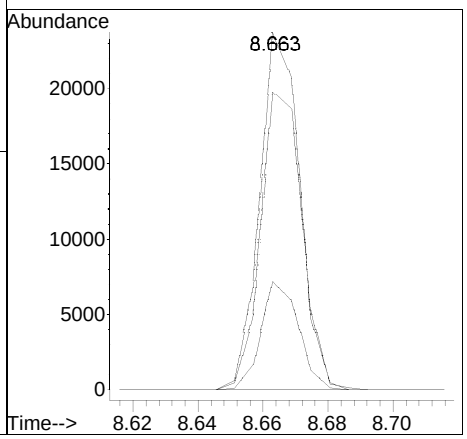


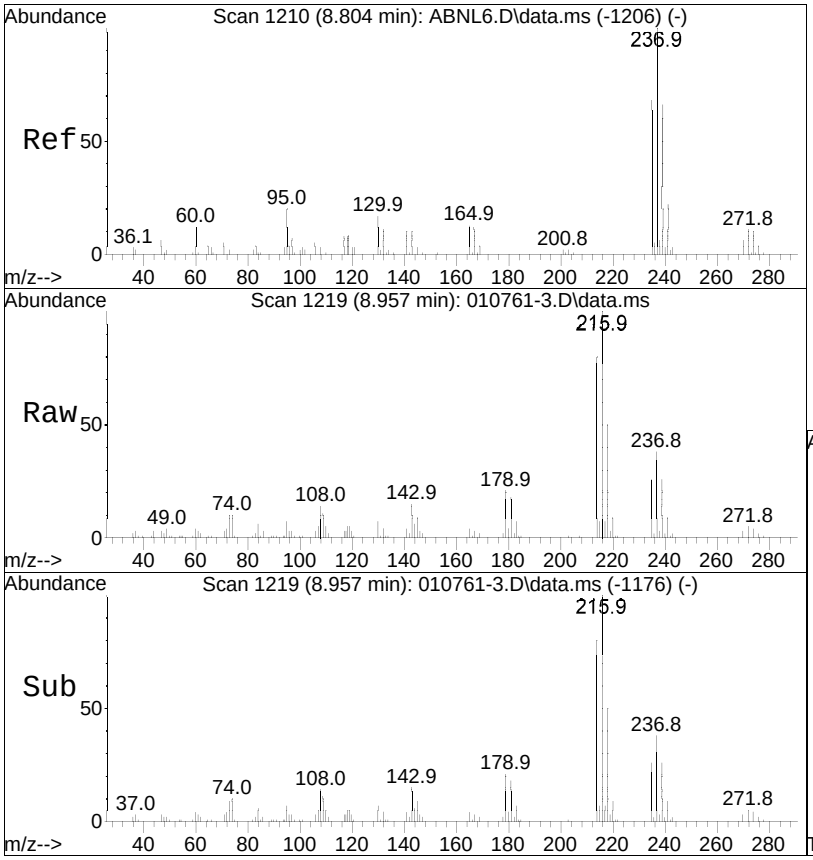


#40
p-Chloro-m-cresol
Concen: 1.07 ug/ml
RT: 8.663 min Scan# 1169
Delta R.T. -0.006 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:107 Resp: 20143

Ion	Ratio	Lower	Upper
107	100		
144	28.7	20.9	31.3
142	86.7	66.1	99.1

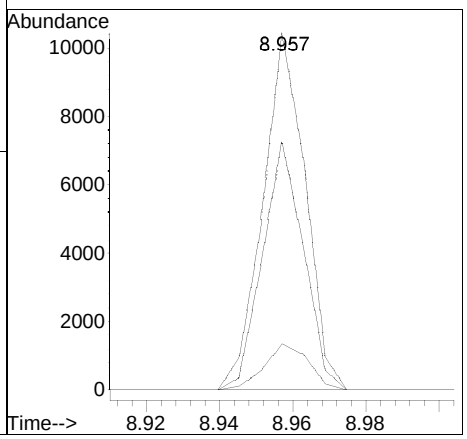


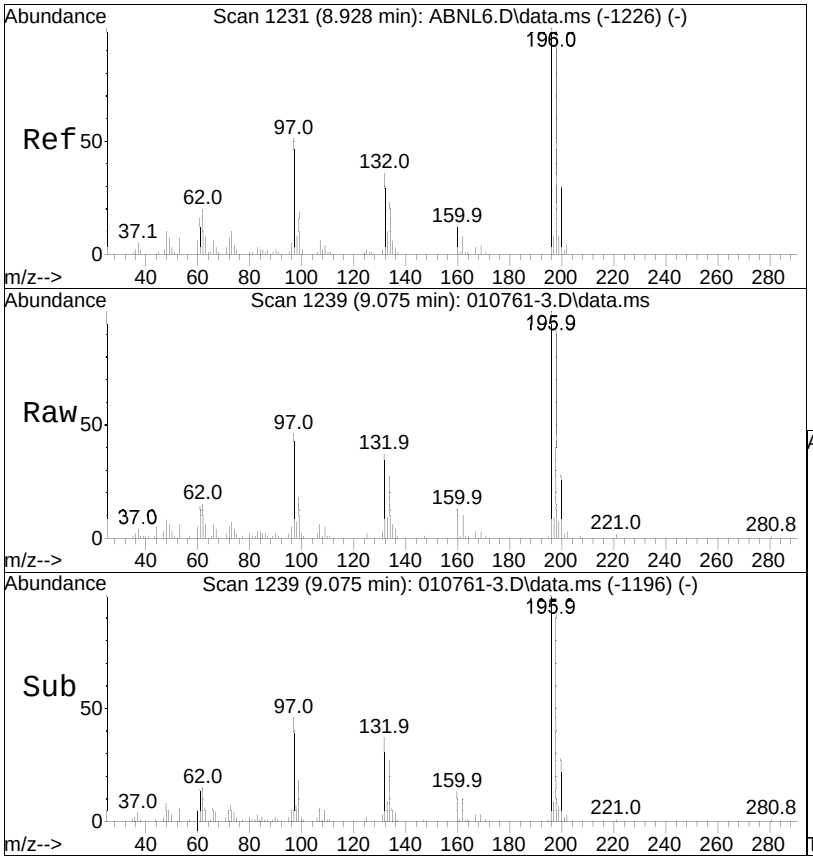


#43
Hexachlorocyclopentadiene
Concen: 0.50 ug/ml
RT: 8.957 min Scan# 1219
Delta R.T. 0.000 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:237 Resp: 8386

Ion	Ratio	Lower	Upper
237	100		
235	67.3	49.7	74.5
272	13.6	9.8	14.6

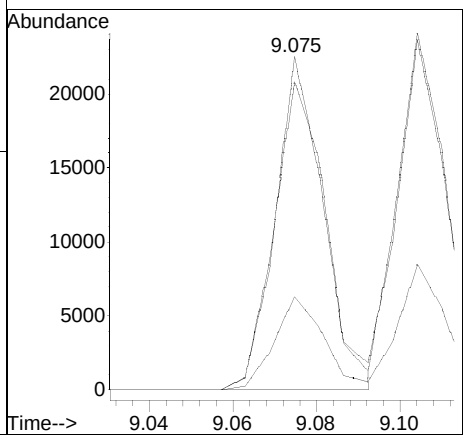


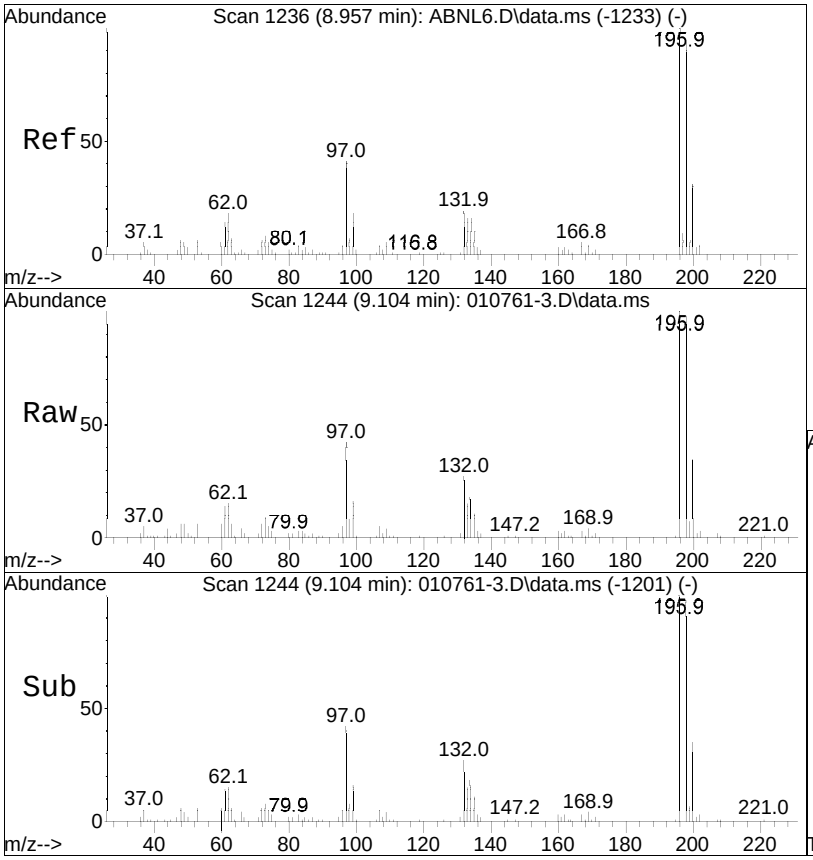


#44
2,4,6-Trichlorophenol
Concen: 1.03 ug/ml
RT: 9.075 min Scan# 1239
Delta R.T. 0.000 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:196 Resp: 17928

Ion	Ratio	Lower	Upper
196	100		
198	100.8	77.5	116.3
200	29.3	23.8	35.6

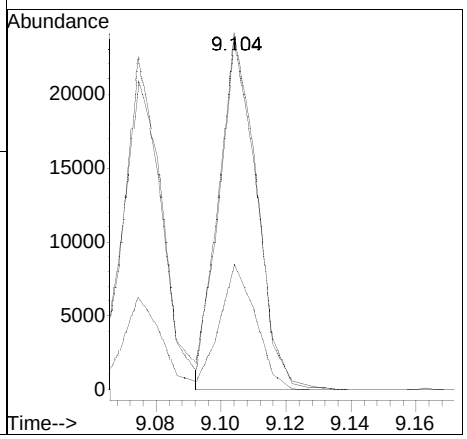


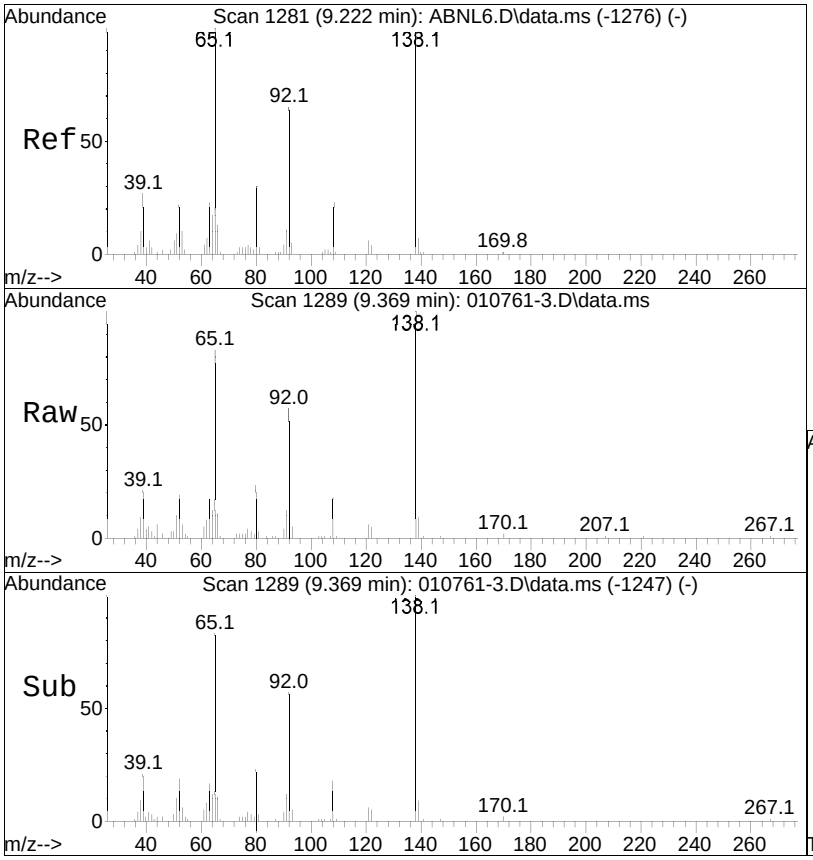


#45
2,4,5-Trichlorophenol
Concen: 1.08 ug/ml
RT: 9.104 min Scan# 1244
Delta R.T. 0.000 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:196 Resp: 19474

Ion	Ratio	Lower	Upper
196	100		
200	33.4	25.4	38.0
198	96.8	78.0	117.0

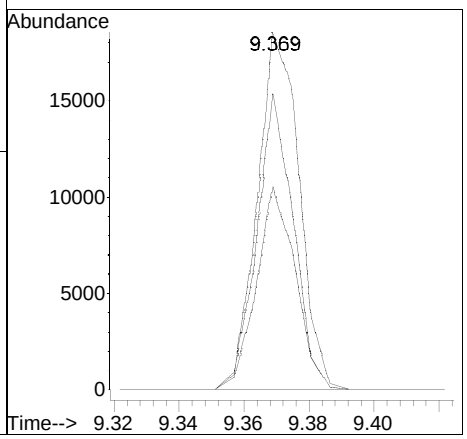


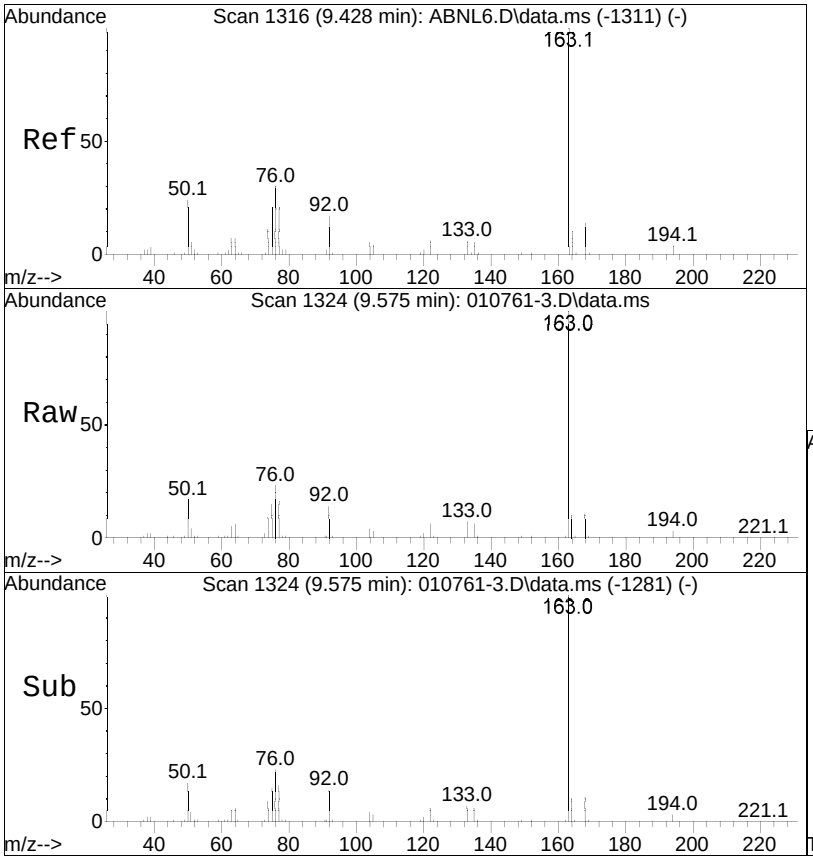


#48
2-Nitroaniline
Concen: 1.15 ug/ml
RT: 9.369 min Scan# 1289
Delta R.T. -0.006 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:138 Resp: 16362

Ion	Ratio	Lower	Upper
138	100		
92	53.1	53.5	80.3#
65	72.7	86.3	129.5#

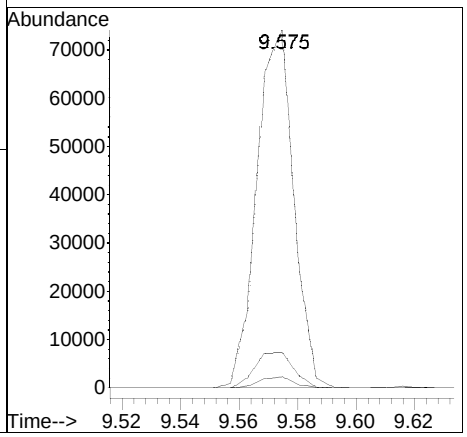


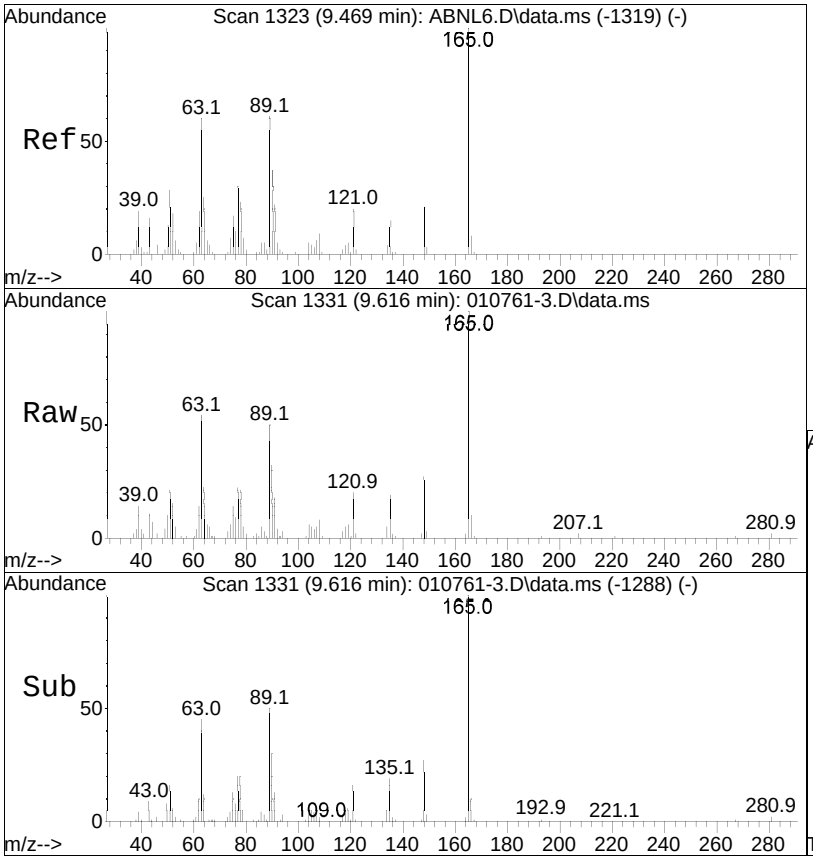


#51
Dimethyl phthalate
Concen: 1.11 ug/ml
RT: 9.575 min Scan# 1324
Delta R.T. 0.000 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:163 Resp: 64209

Ion	Ratio	Lower	Upper
163	100		
194	3.1	3.5	5.3#
164	10.7	7.9	11.9

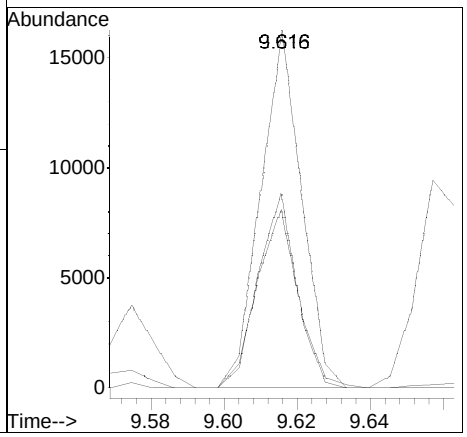


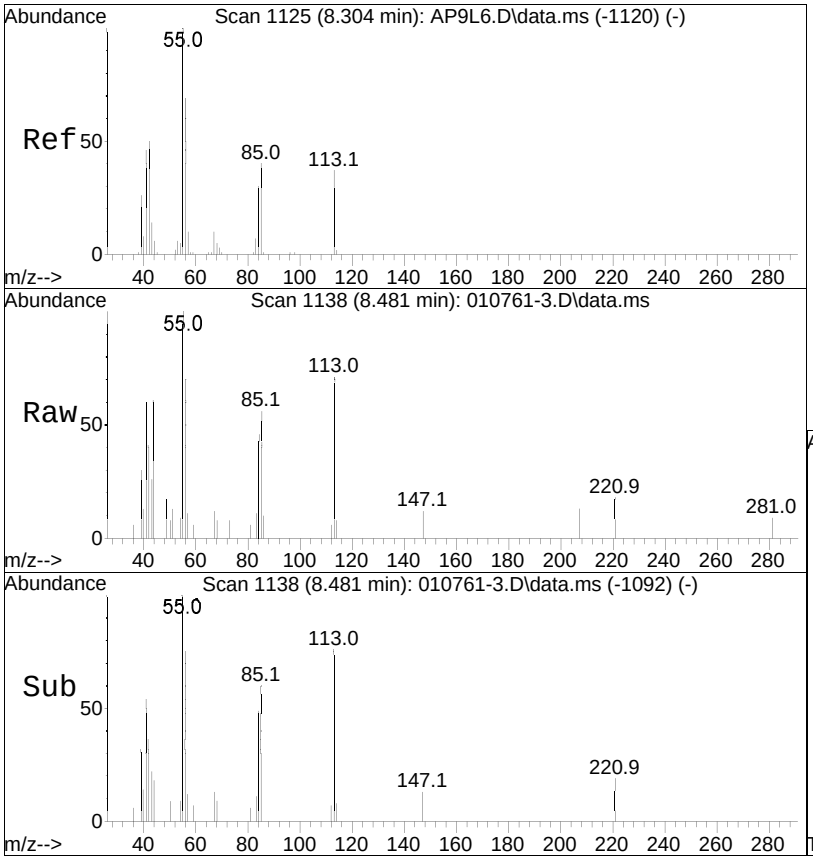


#53
2,6-Dinitrotoluene
Concen: 1.07 ug/ml
RT: 9.616 min Scan# 1331
Delta R.T. 0.000 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:165 Resp: 12586

Ion	Ratio	Lower	Upper
165	100		
89	51.0	54.2	81.2#
63	51.7	64.2	96.2#

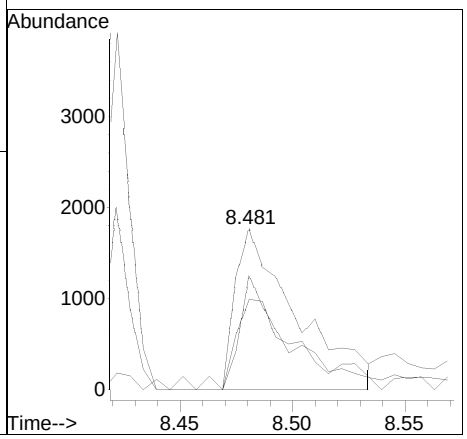


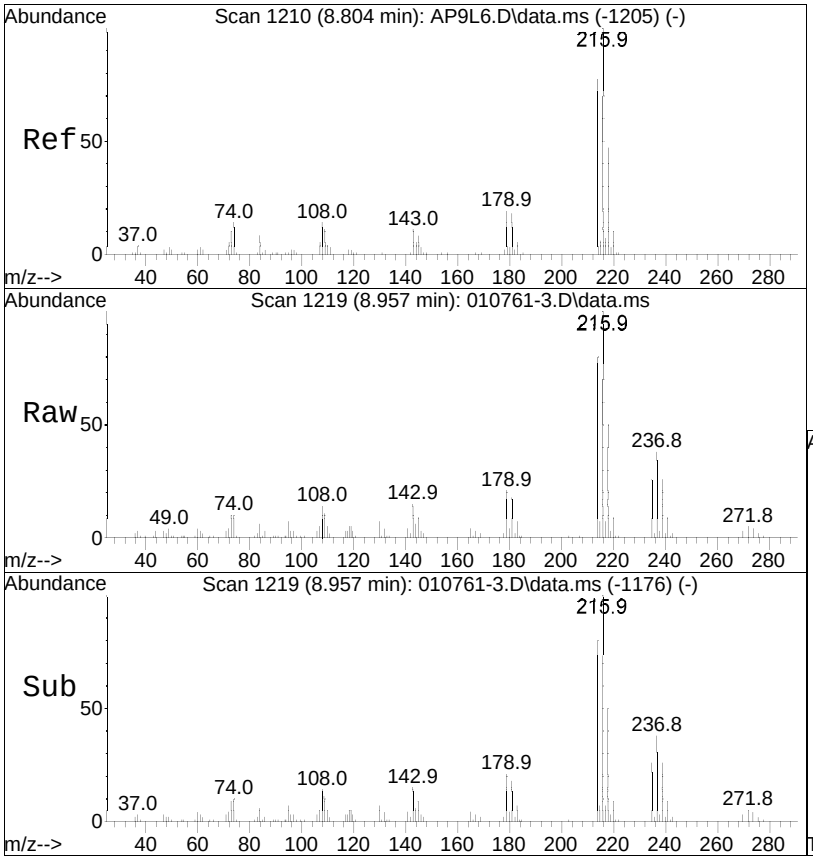


#60
Caprolactam
Concen: 0.37 ug/ml
RT: 8.481 min Scan# 1138
Delta R.T. 0.018 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion: 55 Resp: 3416

Ion	Ratio	Lower	Upper
55	100		
85	47.8	19.8	29.6#
113	55.6	29.6	44.4#

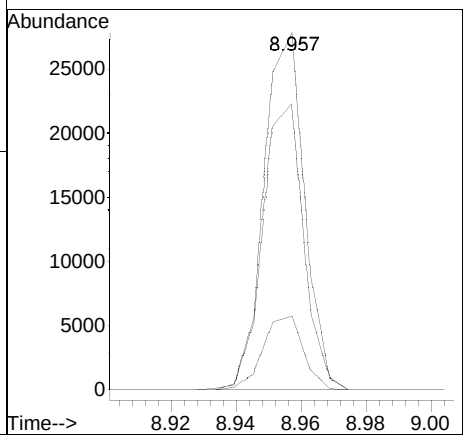


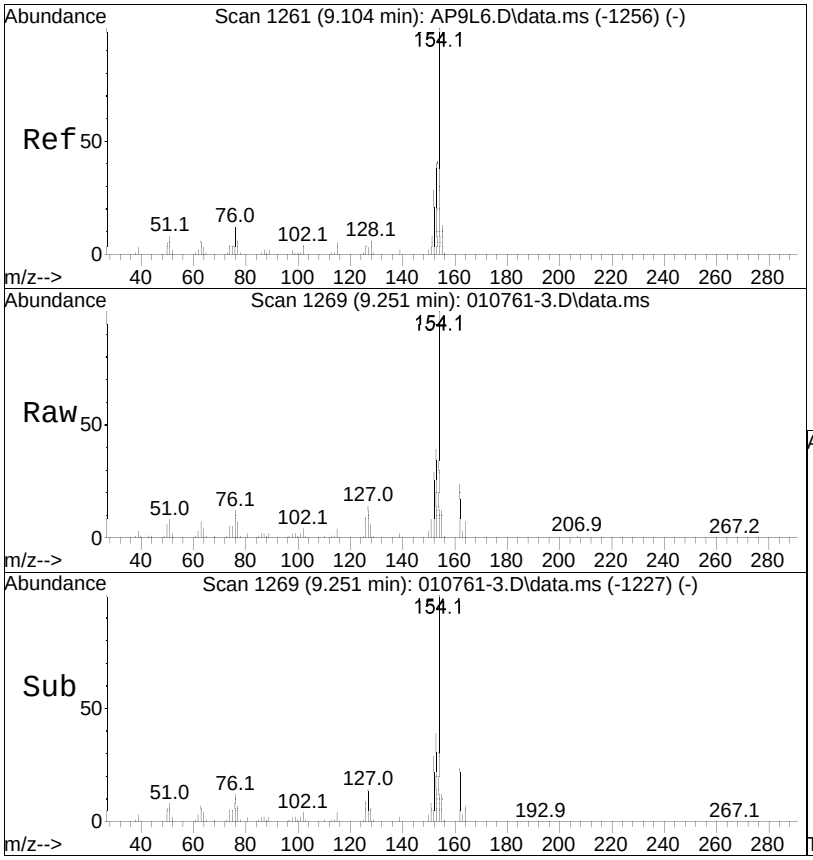


#61
1,2,4,5-Tetrachlorobenzene
Concen: 0.94 ug/ml
RT: 8.957 min Scan# 1219
Delta R.T. -0.000 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:216 Resp: 24059

Ion	Ratio	Lower	Upper
216	100		
214	80.9	63.7	95.5
179	20.7	19.0	28.6

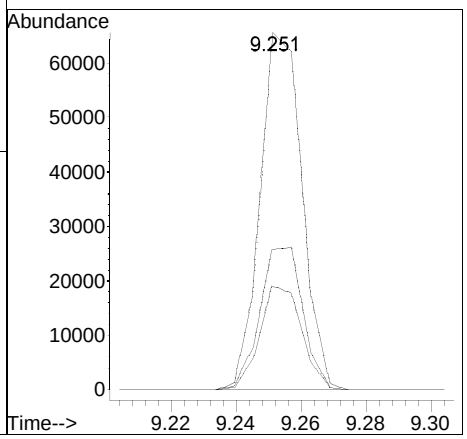


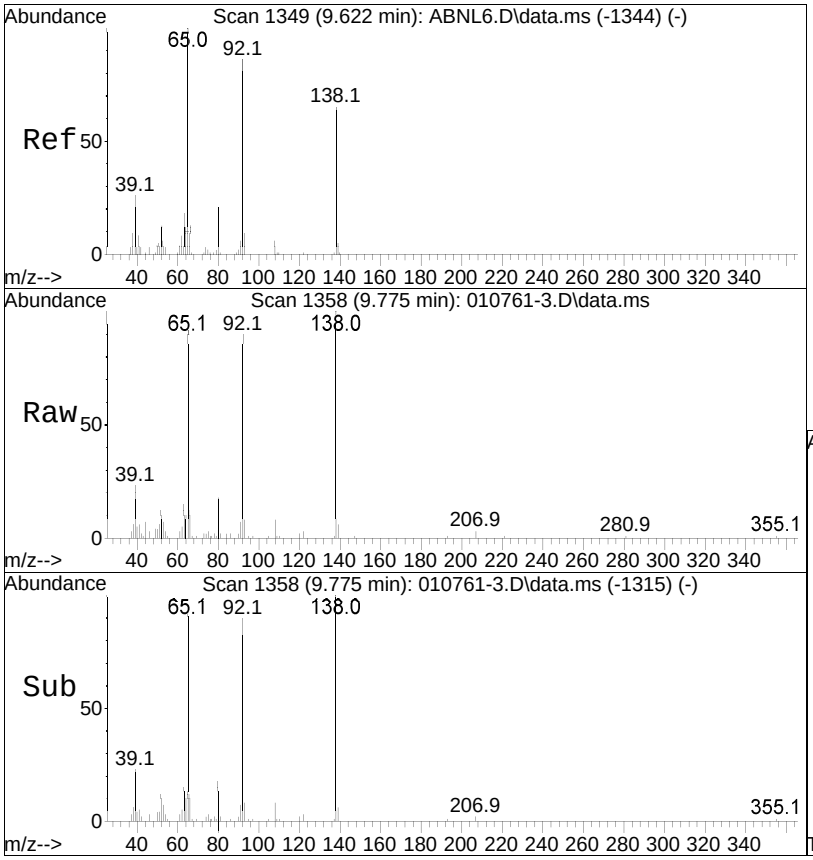


#62
Biphenyl
Concen: 1.01 ug/ml
RT: 9.251 min Scan# 1269
Delta R.T. -0.006 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:154 Resp: 58339

Ion	Ratio	Lower	Upper
154	100		
153	41.3	32.3	48.5
152	29.5	22.5	33.7

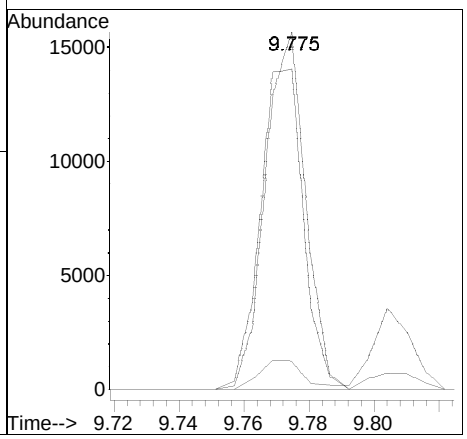


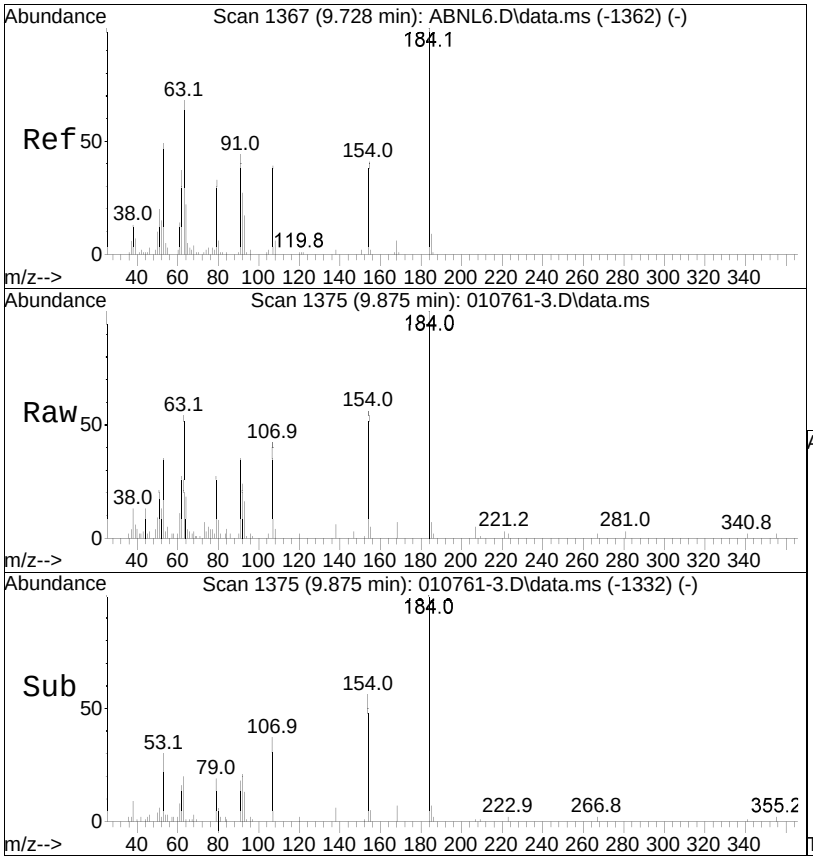


#64
3-Nitroaniline
Concen: 1.09 ug/ml
RT: 9.775 min Scan# 1358
Delta R.T. 0.000 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:138 Resp: 13361

Ion	Ratio	Lower	Upper
138	100		
92	96.1	93.4	140.2
108	9.5	9.5	14.3#

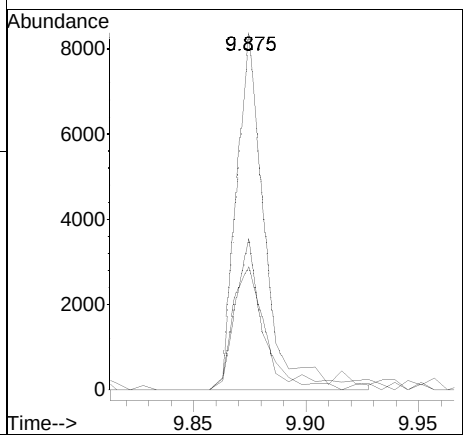


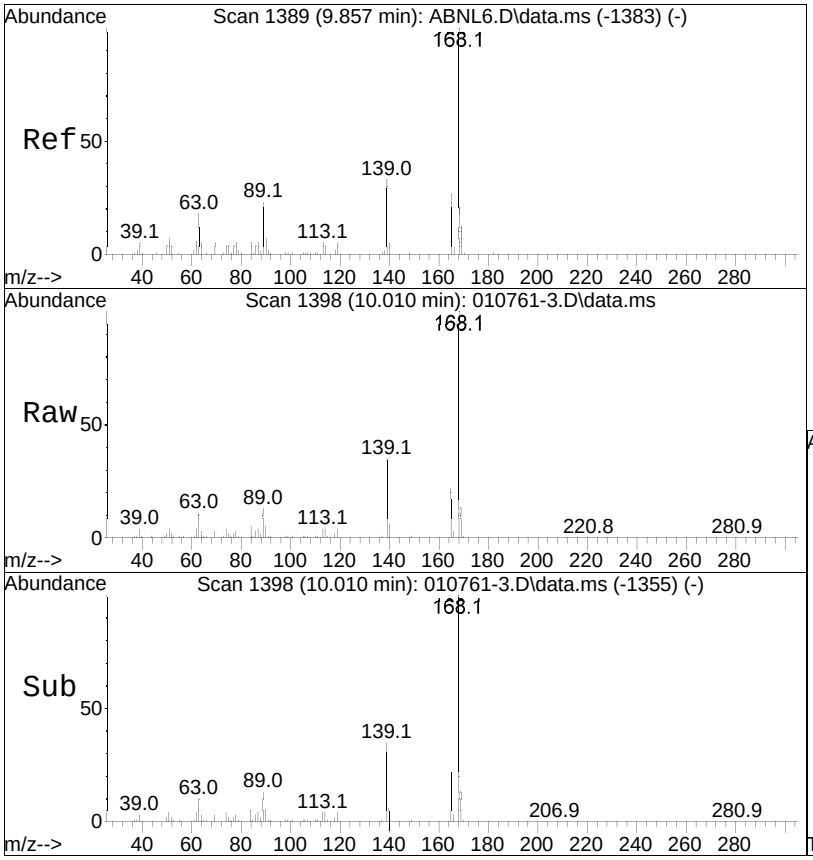


#66
2,4-Dinitrophenol
Concen: 1.96 ug/ml
RT: 9.875 min Scan# 1375
Delta R.T. 0.000 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:184 Resp: 7390

Ion	Ratio	Lower	Upper
184	100		
107	40.2	37.7	56.5
91	41.3	46.3	69.5#

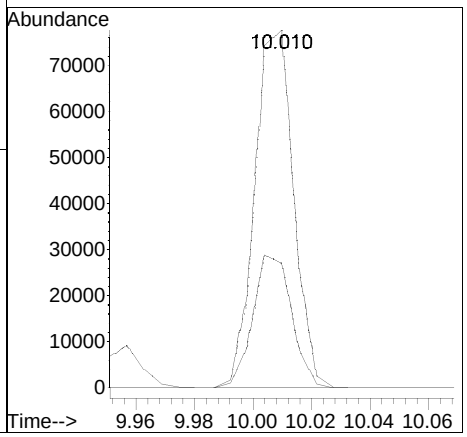


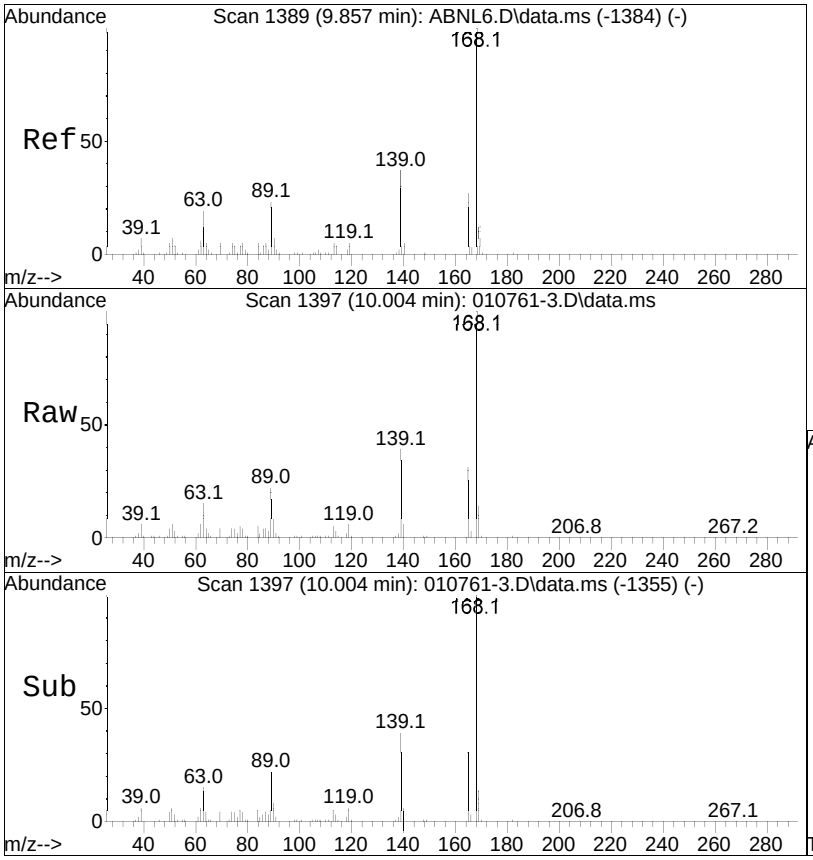


#67
Dibenzofuran
Concen: 1.00 ug/ml
RT: 10.010 min Scan# 1398
Delta R.T. 0.000 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:168 Resp: 71121

Ion	Ratio	Lower	Upper
168	100		
139	37.3	31.4	47.2

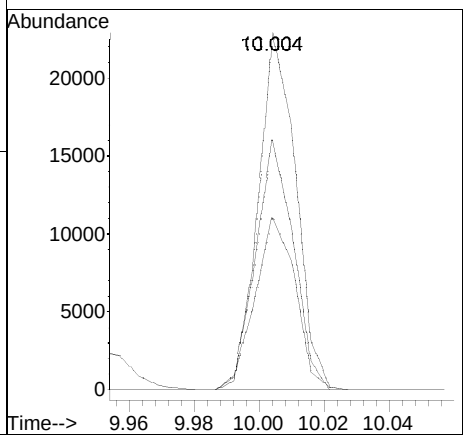


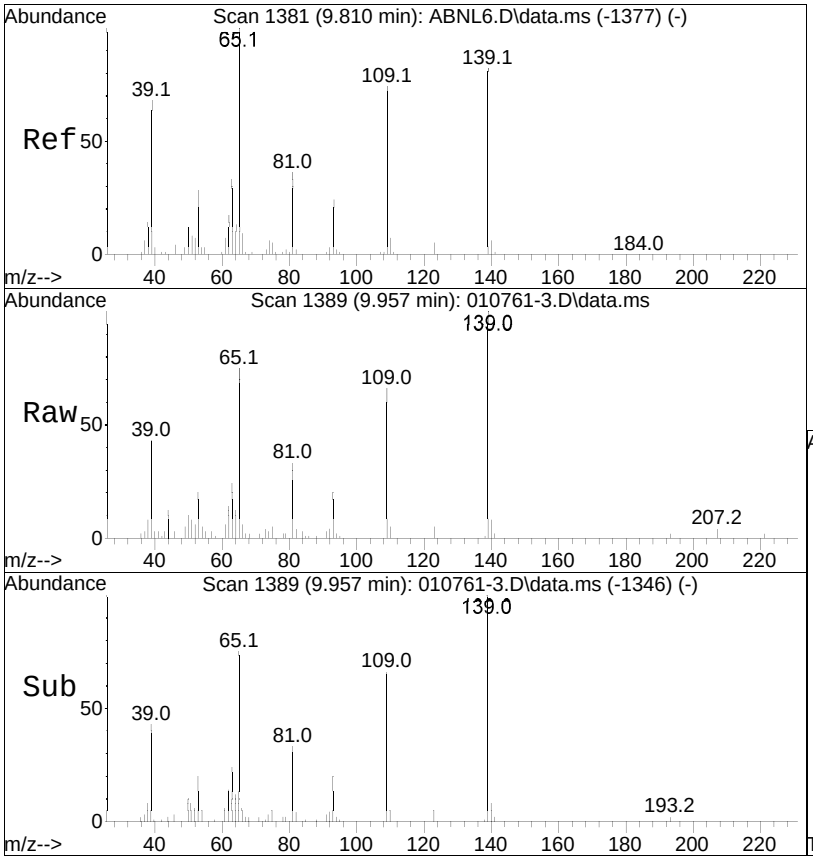


#68
2,4-Dinitrotoluene
Concen: 1.15 ug/ml
RT: 10.004 min Scan# 1397
Delta R.T. -0.006 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:165 Resp: 18205

Ion	Ratio	Lower	Upper
165	100		
89	70.4	72.0	108.0#
63	52.1	52.7	79.1#

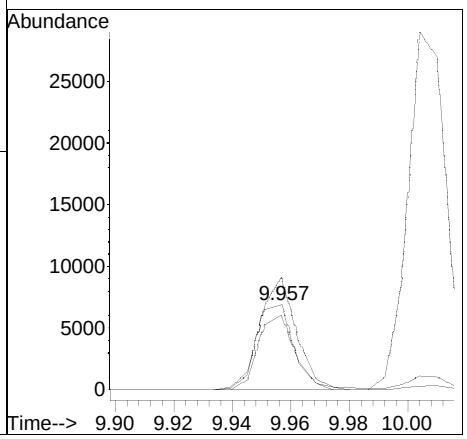


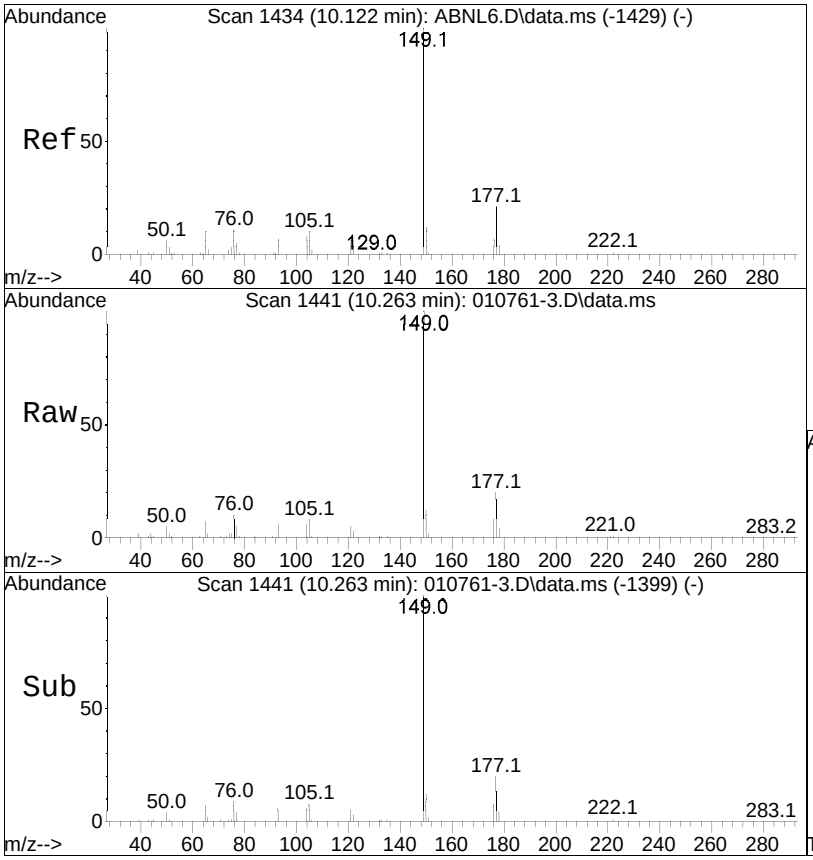


#69
4-Nitrophenol
Concen: 0.71 ug/ml
RT: 9.957 min Scan# 1389
Delta R.T. 0.000 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion: 65 Resp: 6421

Ion	Ratio	Lower	Upper
65	100		
109	81.3	47.4	71.2#
139	122.6	76.6	115.0#

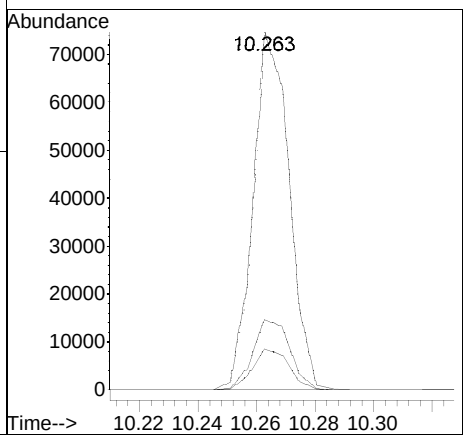


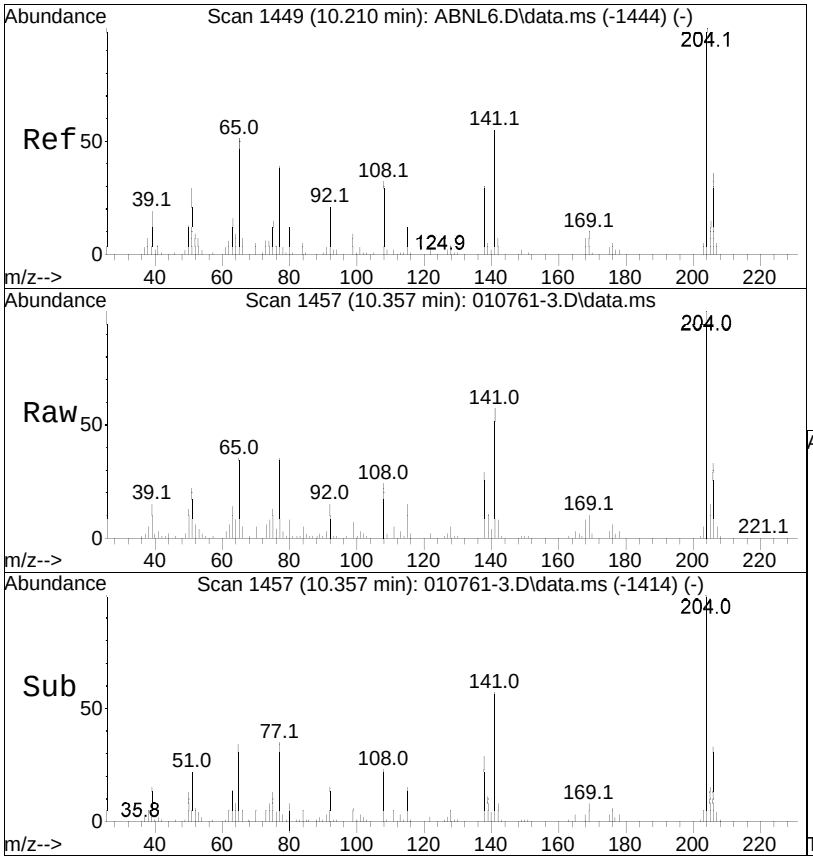


#72
Diethyl phthalate
Concen: 1.10 ug/ml
RT: 10.263 min Scan# 1441
Delta R.T. -0.006 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:149 Resp: 63094

Ion	Ratio	Lower	Upper
149	100		
177	20.3	16.1	24.1
150	11.8	9.4	14.2

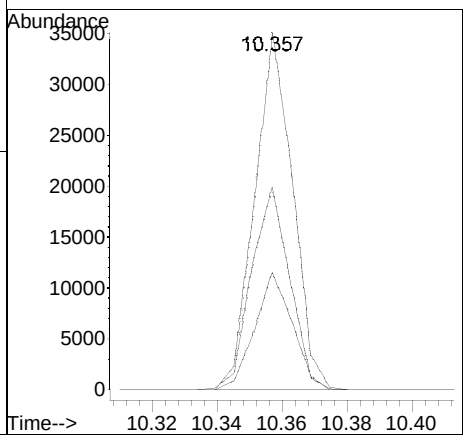


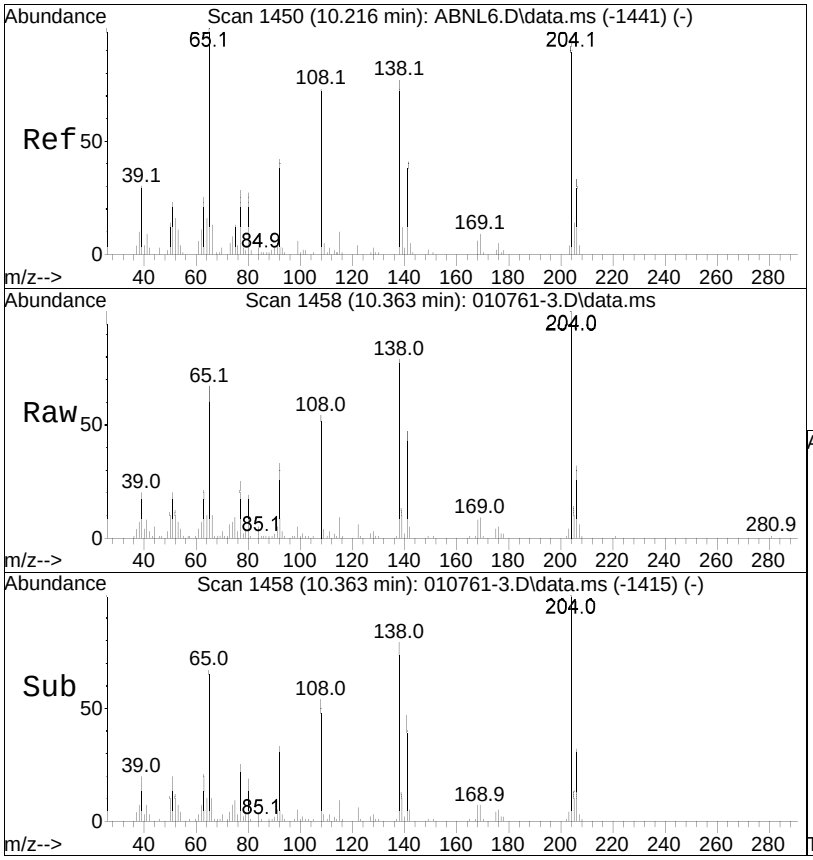


#74
4-Chlorophenyl phenyl ether
Concen: 0.99 ug/ml
RT: 10.357 min Scan# 1457
Delta R.T. 0.000 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:204 Resp: 28154

Ion	Ratio	Lower	Upper
204	100		
206	32.8	25.8	38.6
141	57.3	53.6	80.4

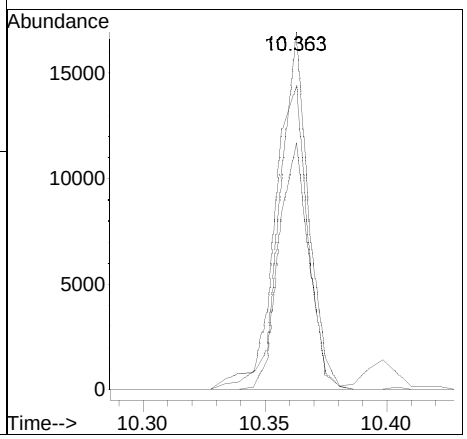


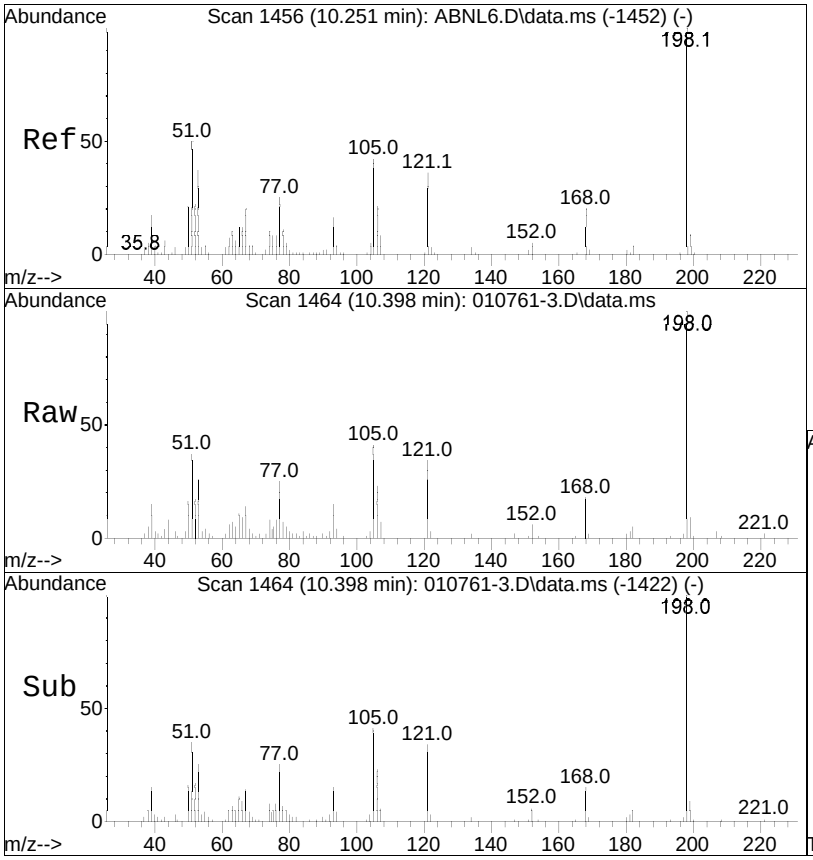


#75
4-Nitroaniline
Concen: 1.13 ug/ml
RT: 10.363 min Scan# 1458
Delta R.T. 0.000 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:138 Resp: 14057

Ion	Ratio	Lower	Upper
138	100		
108	70.8	52.1	78.1
65	96.6	115.0	172.6#

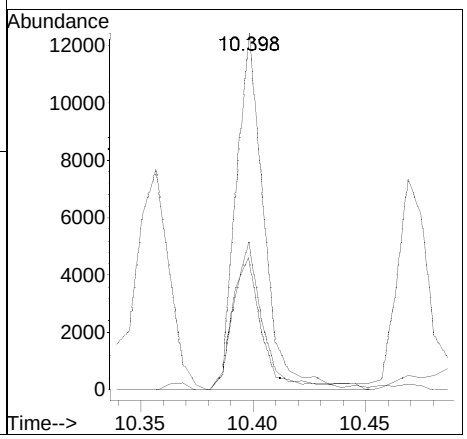


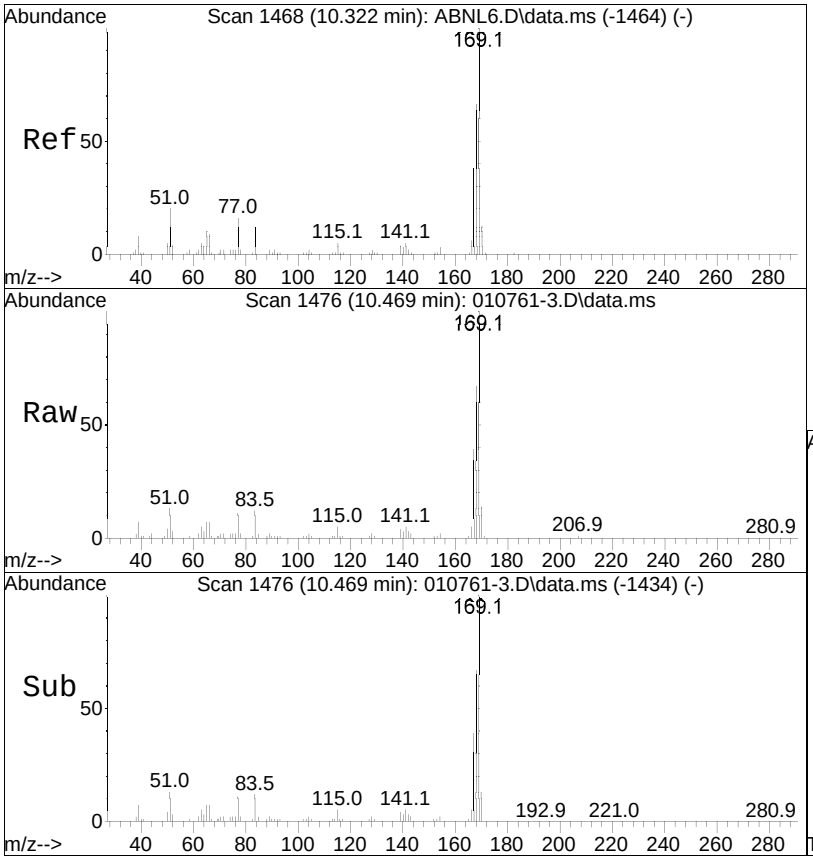


#76
4,6-Dinitro-o-cresol
Concen: 1.28 ug/ml
RT: 10.398 min Scan# 1464
Delta R.T. -0.006 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:198 Resp: 10792

Ion	Ratio	Lower	Upper
198	100		
51	39.8	76.0	114.0#
105	44.4	45.6	68.4#

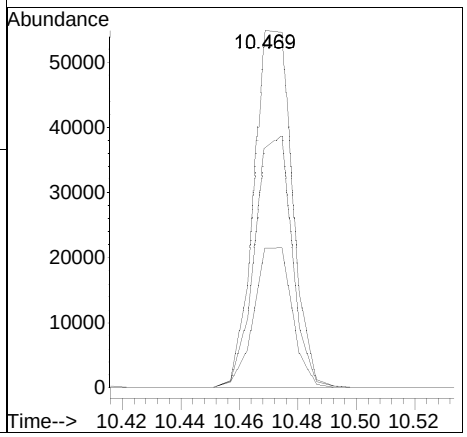


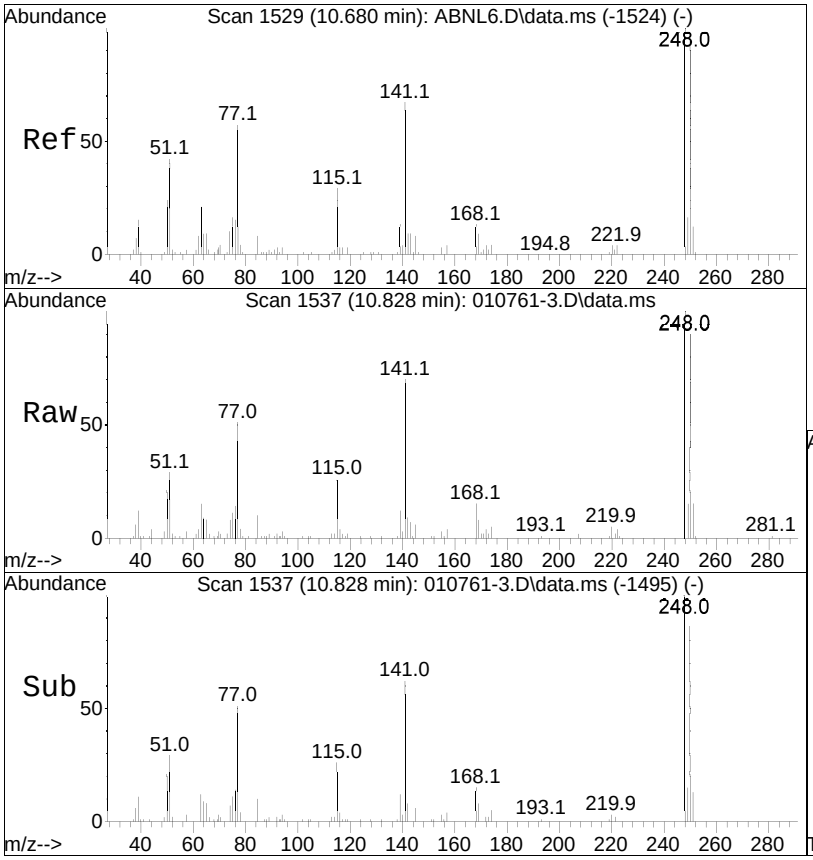


#77
NDPA/DPA
Concen: 1.05 ug/ml
RT: 10.469 min Scan# 1476
Delta R.T. -0.006 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:169 Resp: 50066

Ion	Ratio	Lower	Upper
169	100		
168	68.7	54.0	81.0
167	39.1	28.6	42.8

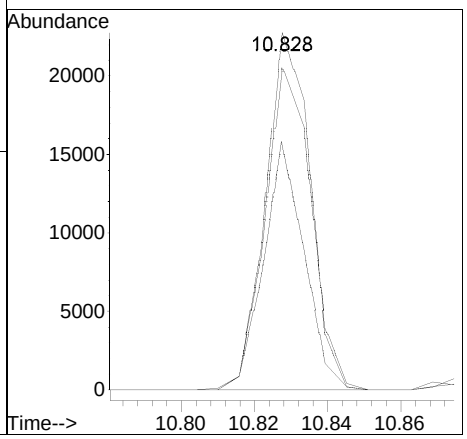


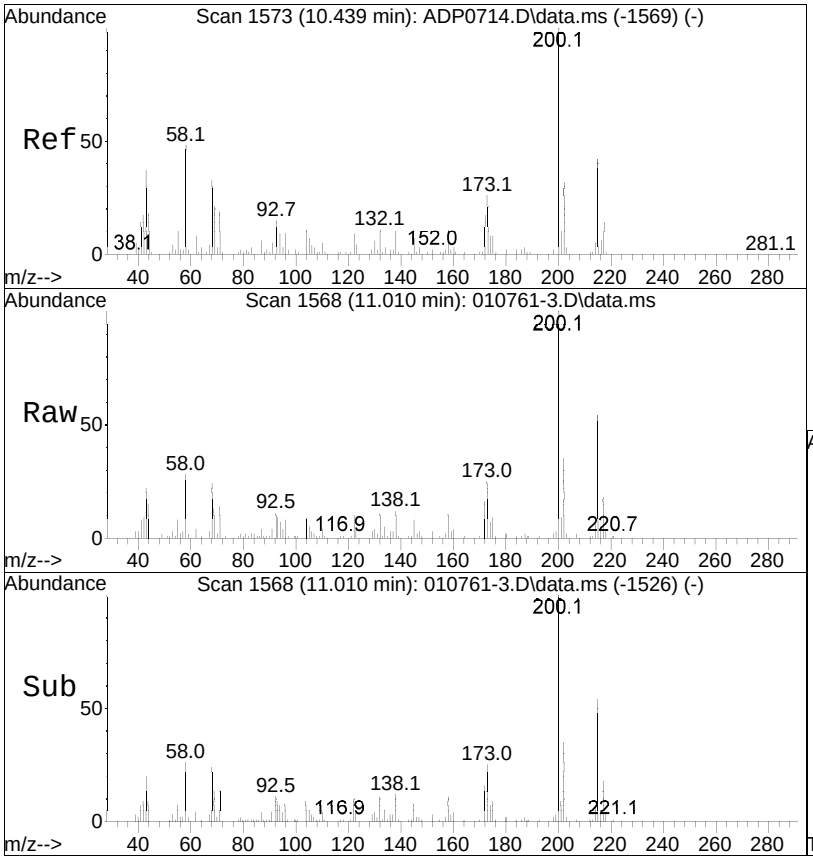


#80
4-Bromophenyl phenyl ether
Concen: 1.09 ug/ml
RT: 10.828 min Scan# 1537
Delta R.T. -0.006 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:248 Resp: 19241

Ion	Ratio	Lower	Upper
248	100		
141	63.4	76.6	114.8#
250	93.3	77.3	115.9

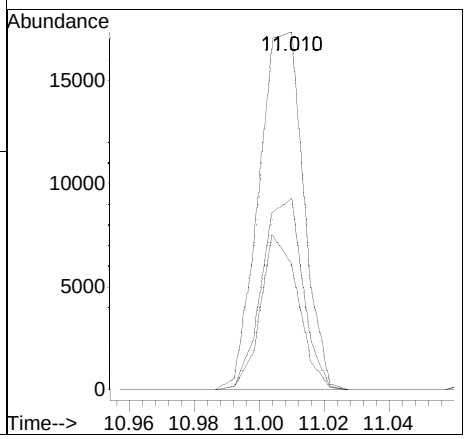


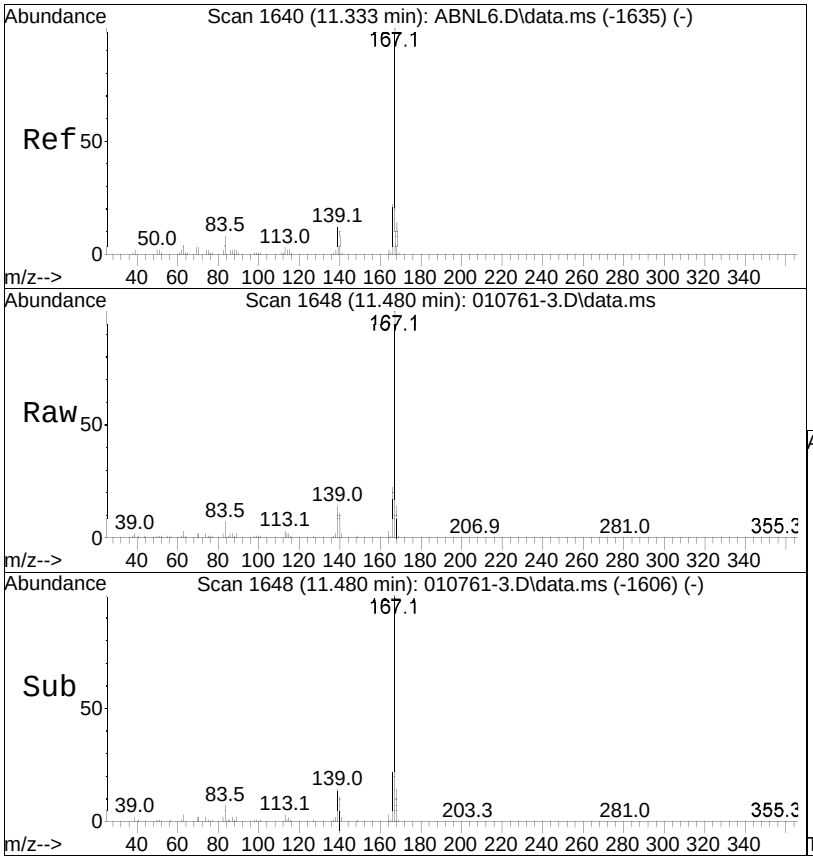


#87
Atrazine
Concen: 1.05 ug/ml
RT: 11.010 min Scan# 1568
Delta R.T. -0.000 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:200 Resp: 16457

Ion	Ratio	Lower	Upper
200	100		
202	36.8	25.8	38.6
215	49.3	40.2	60.4

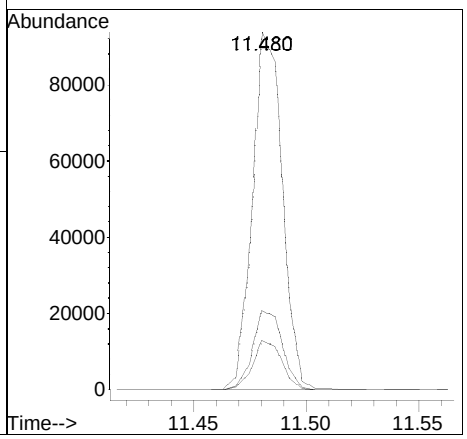


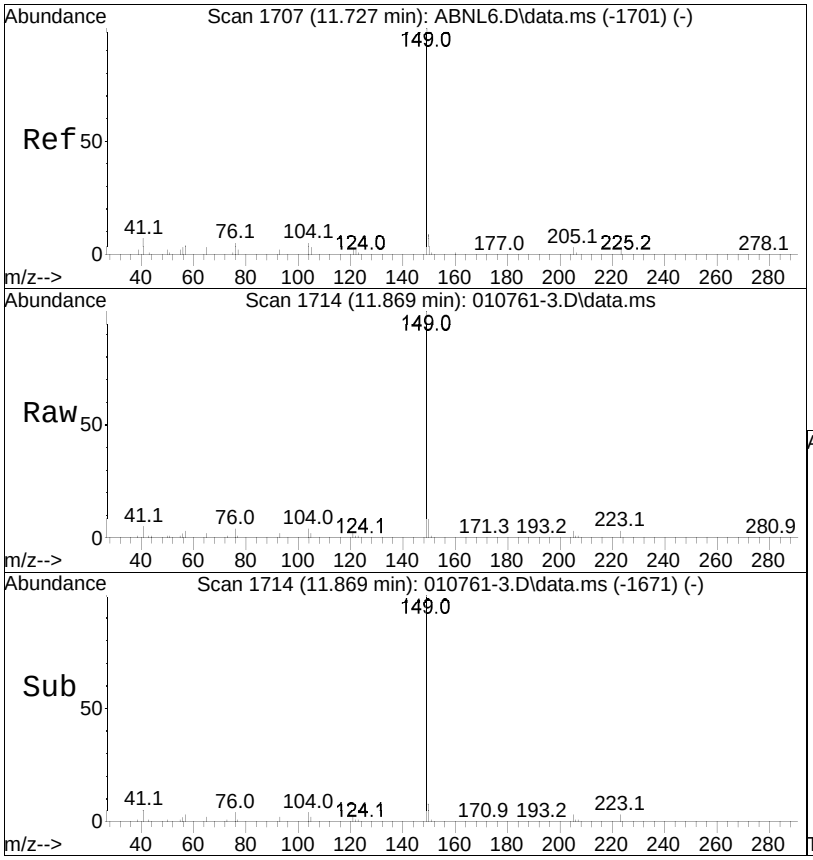


#91
Carbazole
Concen: 1.08 ug/ml
RT: 11.480 min Scan# 1648
Delta R.T. -0.006 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:167 Resp: 85561

Ion	Ratio	Lower	Upper
167	100		
168	13.5	10.6	15.8
166	22.1	17.4	26.0

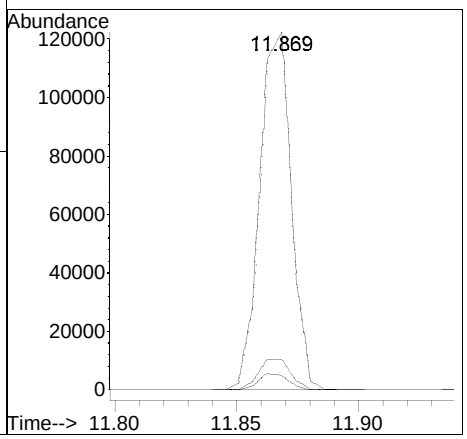


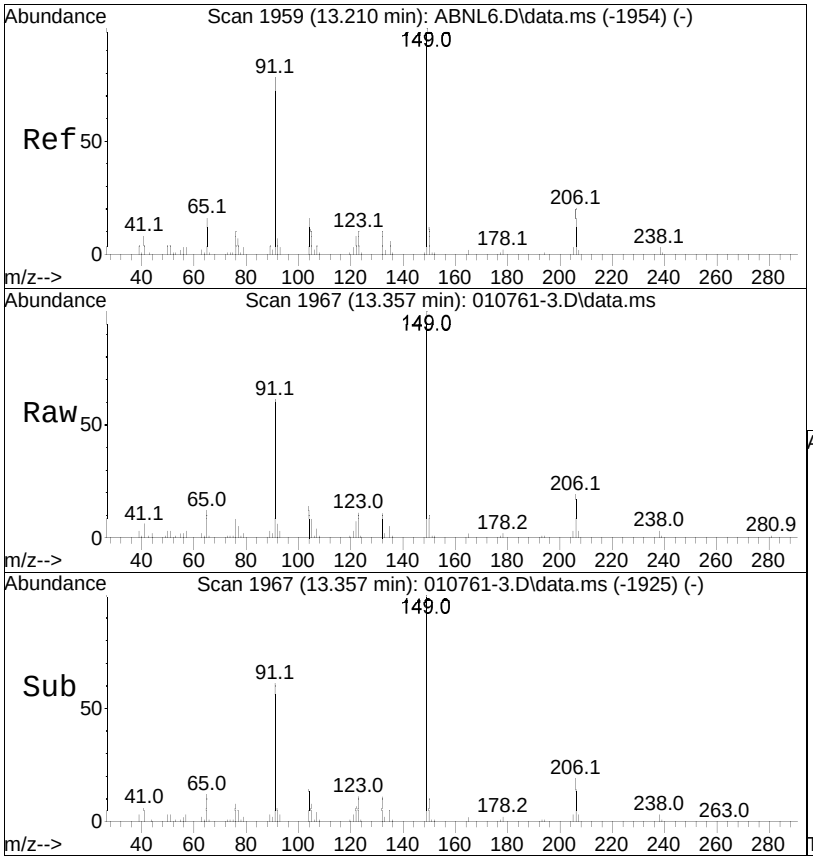


#92
Di-n-butylphthalate
Concen: 1.10 ug/ml
RT: 11.869 min Scan# 1714
Delta R.T. 0.000 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:149 Resp: 108696

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.0	10.6
104	4.6	4.5	6.7

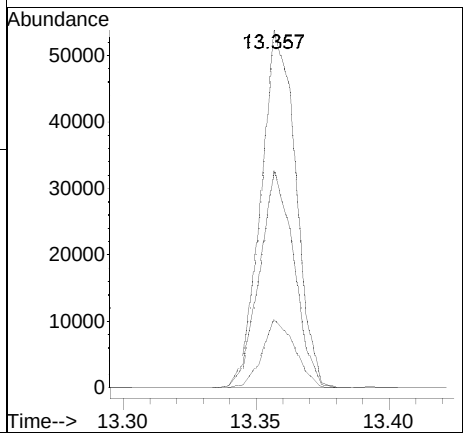


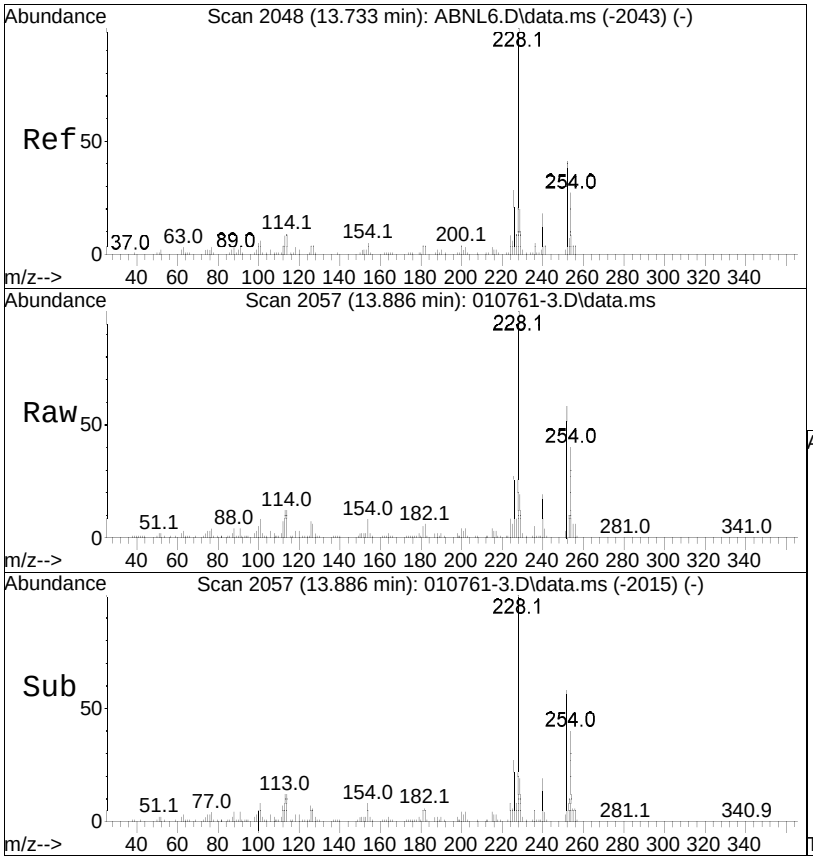


#97
Butyl benzyl phthalate
Concen: 1.16 ug/ml
RT: 13.357 min Scan# 1967
Delta R.T. -0.006 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:149 Resp: 48596

Ion	Ratio	Lower	Upper
149	100		
91	60.0	63.3	94.9#
206	18.0	13.9	20.9

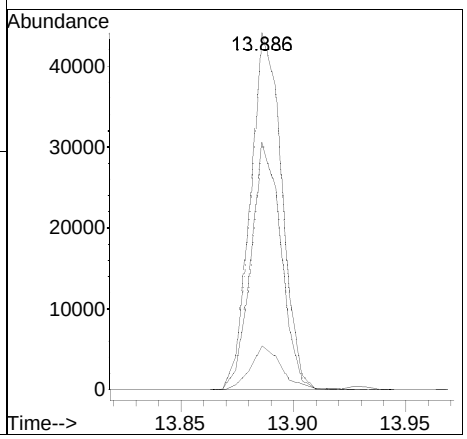


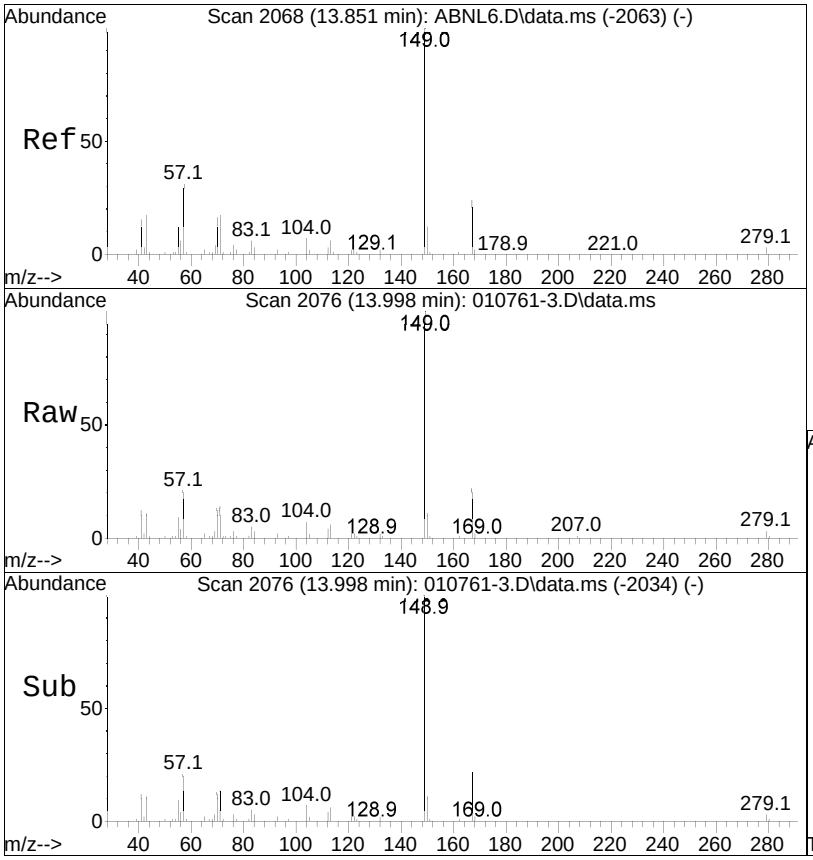


#106
3,3'-Dichlorobenzidine
Concen: 1.17 ug/ml
RT: 13.886 min Scan# 2057
Delta R.T. -0.006 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:252 Resp: 42613

Ion	Ratio	Lower	Upper
252	100		
126	12.4	14.5	21.7#
254	66.9	51.2	76.8

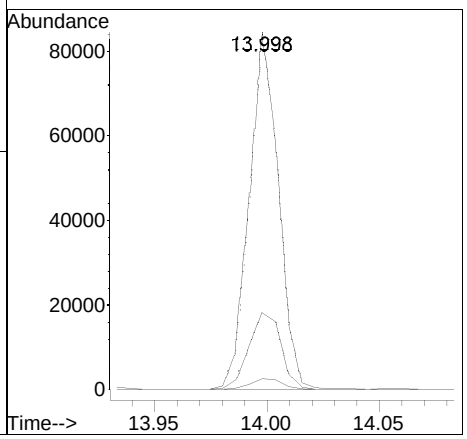


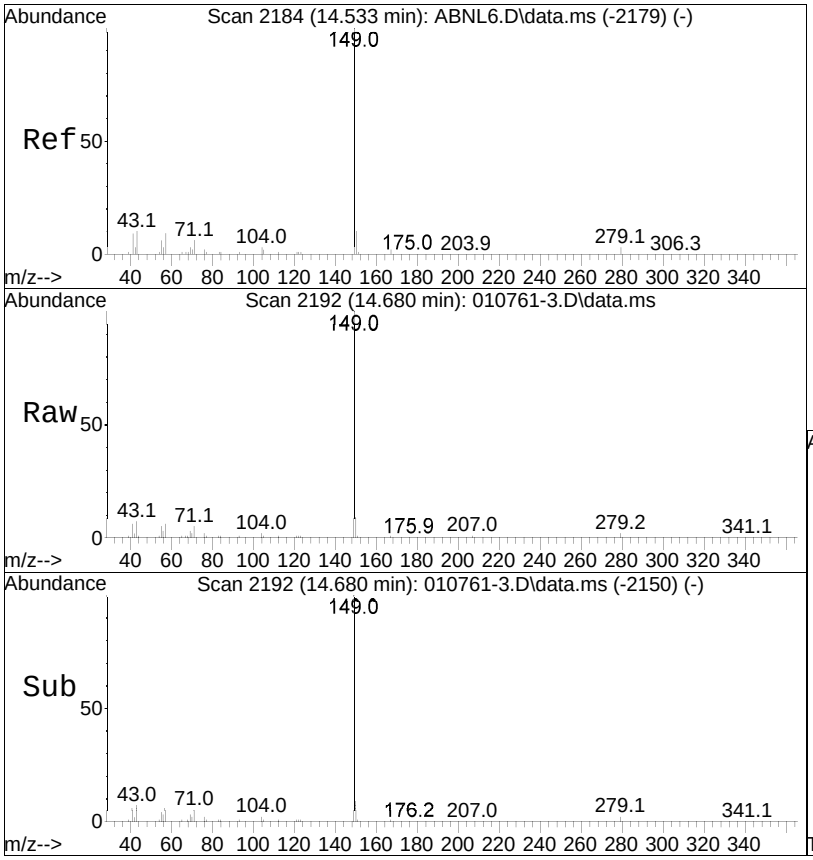


#108
Bis(2-ethylhexyl)phthalate
Concen: 1.13 ug/ml
RT: 13.998 min Scan# 2076
Delta R.T. -0.006 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:149 Resp: 75385

Ion	Ratio	Lower	Upper
149	100		
167	23.9	22.1	33.1
279	3.1	3.0	4.4

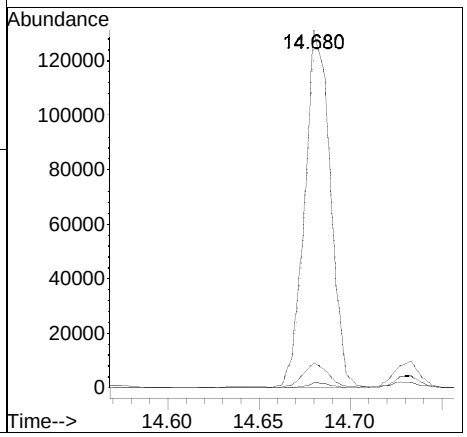




#109
Di-n-octylphthalate
Concen: 1.14 ug/ml
RT: 14.680 min Scan# 2192
Delta R.T. -0.006 min
Lab File: 010761-3.D
Acq: 19 Dec 2024 1:29 am

Tgt Ion:149 Resp: 126649

Ion	Ratio	Lower	Upper
149	100		
43	6.5	18.8	28.2#
167	1.4	1.3	1.9



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 20 2024, 03:46 pm

Work Group: WG2010761 for Department: 2 Organic Preparation

Created: 18-DEC-24 Due: Operator: NBD

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2473190-06	FIELD BLANK_20241212	C	NYTCL-8270-RVT	WATER	DONE	U	1219	1219	S0	Amber-A.1
L2473420-01	MW-1	C	NYTCL-8270-RVT	WATER	DONE	U	1219	1220	S0	Amber-A.1
L2473420-02	MW-2	C	NYTCL-8270-RVT	WATER	DONE	U	1219	1220	S0	Amber-A.1
L2473420-03	MW-3	C	NYTCL-8270-RVT	WATER	DONE	U	1219	1220	S0	Amber-A.1
L2473420-04	MW-4	C	NYTCL-8270-RVT	WATER	DONE	U	1219	1220	S0	Amber-A.1
L2473538-01	PZ-5	C	NYTCL-8270-RVT	WATER	DONE	U	1220	1220	S0	Amber-A.1
L2473538-02	MW-5D	C	NYTCL-8270-RVT	WATER	DONE	U	1220	1220	S0	Amber-A.1
L2473538-03	SCDOH-DR	C	NYTCL-8270-RVT	WATER	DONE	U	1220	1220	S0	Amber-A.1
L2473538-04	MW-10S	C	NYTCL-8270-RVT	WATER	DONE	U	1220	1220	S0	Amber-A.1
L2473538-05	MW-10D	C	NYTCL-8270-RVT	WATER	DONE	U	1220	1220	S0	Amber-A.1
L2473561-03	TW-03	C	NYTCL-8270-RVT	WATER	DONE	U	1220	1220	S0	Amber-A.1
L2473561-06	TW-04	C	NYTCL-8270-RVT	WATER	DONE	U	1220	1220	S0	Amber-A.1
L2473639-01	SW-N-12-13-24-S	C	NYTCL-8270-RVT	WATER	DONE	U	1220	1220	S0	Amber-A.1
L2473639-02	SW-N-12-13-24-M	C	NYTCL-8270-RVT	WATER	DONE	U	1220	1220	S0	Amber-A.1
L2473639-03	SW-N-12-13-24-D	C	NYTCL-8270-RVT	WATER	DONE	U	1220	1220	S0	Amber-A.1
L2473639-04	SW-S-12-13-24-S	C	NYTCL-8270-RVT	WATER	DONE	U	1220	1220	S0	Amber-A.1
L2473639-05	SW-S-12-13-24-S	C	NYTCL-8270-RVT	WATER	DONE	U	1220	1220	S0	Amber-A.1
L2473639-06	SW-S-12-13-24-S	C	NYTCL-8270-RVT	WATER	DONE	U	1220	1220	S0	Amber-A.1
WG2010761-1	Laboratory Method Bl	S	NYTCL-8270-RVT	WATER	DONE	U				
WG2010761-2	Laboratory Control S	S	NYTCL-8270-RVT	WATER	DONE	U				
WG2010761-3	LCS Duplicate	S	NYTCL-8270-RVT	WATER	DONE	U				

Comments:

WG2010761-3 WG2010761-2

Dep.: GCMS
Inst: SV106
Date: **10/09/24**
Run: **ICAL**

Method
GC: 8270RV

Seq: **WG1984388**

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	Initials
141	Tune1	Tune1 Lot# 11080				
1	ABNL9	IL2,32,,ABNL50 Lot# 11004				
2	ABNL8	IL3,32,,ABNL25 Lot# 11005				
3	ABNL7	IL4,32,,ABNL10 Lot# 11006				
4	ABNL6	IL5,32,,ABNL5 Lot# 11007				
5	ABNL5	IL6,32,,ABNL2.5 Lot# 11008				
6	ABNL4	IL7,32,,ABNL1 Lot# 11009				
7	ABNL3	IL8,32,,ABNL0.5 Lot# 11010				
8	ABNL2	IL9,32,,ABNL0.2 Lot# 11011				
9	ABNL1	IL10,32,,ABNL0.1 Lot# 11012				
10	AP9L9	IL2,32,,AP9L50 Lot# 11013				
11	AP9L8	IL3,32,,AP9L25 Lot# 11014				
12	AP9L7	IL4,32,,AP9L10 Lot# 11015				
13	AP9L6	IL5,32,,AP9L5 Lot# 11016				
14	AP9L5	IL6,32,,AP9L2.5 Lot# 11017				
15	AP9L4	IL7,32,,AP9L1 Lot# 11018				
16	AP9L3	IL8,32,,AP9L0.5 Lot# 11019				
17	AP9L2	IL9,32,,AP9L0.2 Lot# 11020				
18	AP9L1	IL10,32,,AP9L0.1 Lot# 11021				
19	ABNICV	CQICV1,32,,ABNICV Lot# 11031				
20	AP9ICV	CQICV2,32,,AP9ICV Lot# 11032				
141	Tune2	Tune2 Lot# 11080				
21	ADPL9	IL2,32,,ADPL50 Lot# 11022	RR, poor solvent delay			
22	ADPL8	IL3,32,,ADPL25 Lot# 11023	RR, poor solvent delay			
23	ADPL7	IL4,32,,ADPL10 Lot# 11024	RR, poor solvent delay			
24	ADPL6	IL5,32,,ADPL5 Lot# 11025	RR, poor solvent delay			
25	ADPL5	IL6,32,,ADPL2.5 Lot# 11026	RR, poor solvent delay			
26	ADPL4	IL7,32,,ADPL1 Lot# 11027	RR, poor solvent delay			
27	ADPL3	IL8,32,,ADPL0.5 Lot# 11028	RR, poor solvent delay			
28	ADPL2	IL9,32,,ADPL0.2 Lot# 11029	RR, poor solvent delay			
29	ADPL1	IL10,32,,ADPL0.1 Lot# 11030	RR, poor solvent delay			
30	ADPICV	CQICV3,32,,ADPICV Lot# 11033	RR, poor solvent delay			
31	Blank	RVT Instrument Blank			mrg	
141	Tune3	Tune3 Lot# 11080				
1	ADPL9	IL2,32,,ADPL50 Lot# 11022				
2	ADPL8	IL3,32,,ADPL25 Lot# 11023				
3	ADPL7	IL4,32,,ADPL10 Lot# 11024				
4	ADPL6	IL5,32,,ADPL5 Lot# 11025				
5	ADPL5	IL6,32,,ADPL2.5 Lot# 11026				
6	ADPL4	IL7,32,,ADPL1 Lot# 11027				
7	ADPL3	IL8,32,,ADPL0.5 Lot# 11028				
8	ADPL2	IL9,32,,ADPL0.2 Lot# 11029				
9	ADPL1	IL10,32,,ADPL0.1 Lot# 11030				
10	ADPICV	CQICV3,32,,ADPICV Lot# 11033				
11	Blank	RVT Instrument Blank			hny	

Dep.: GCMS
Inst: SV106
Date: **12/18/24**
Run: **Night Run**

Method
GC: ABNRVT

Seq: **WG2011026**
ICAL: **21604**

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	Initials
141	DEG1218	wg-1,32,,Degdftpp Lot # 11171				im 12/19
142	ABN1218	wg-3,32,,ABN RVT CCV Lot # 11	**Passes Full List, TCLP**			im 12/19
143	AP91218	wg-4,32,,AP9 RVT CCV Lot # 11152				im 12/19
144	ADP1218	wg-5,32,,ADP RVT CCV Lot # 11153				
1	010560-1	WG2010560-1,32,,ASK				12/19 als
2	010560-2	WG2010560-2,32,,ASK				12/19 als
3	010560-3	WG2010560-3,32,,ASK				12/19 als
4	010761-1	WG2010761-1,32,,ASK				im 12/19
5	010761-2	WG2010761-2,32,,ASK				im 12/19
6	010761-3	WG2010761-3,32,,ASK				im 12/19
7	72865-19	L2472865-19,32,,RE,ASK				12/19 als
8	73420-01	L2473420-01,32,,ASK				
9	73420-02	L2473420-02,32,,ASK				
10	73420-03	L2473420-03,32,,ASK				
11	73420-04	L2473420-04,32,,ASK				
12	73538-01	L2473538-01,32,,ASK				12/19jg
13	73538-02	L2473538-02,32,,ASK				12/19jg
14	73538-03	L2473538-03,32,,ASK				12/19jg
15	73538-04	L2473538-04,32,,ASK				12/19jg
16	73538-05	L2473538-05,32,,ASK				12/19jg
17	73561-03	L2473561-03,32,,ASK				ljg 12/20
18	73561-06	L2473561-06,32,,ASK				ljg 12/20
19	73639-01	L2473639-01,32,,ASK				12/19 als
20	73639-02	L2473639-02,32,,ASK				12/19 als
21	73639-03	L2473639-03,32,,ASK				12/19 als
22	73639-04	L2473639-04,32,,ASK				12/19 als
23	73639-05	L2473639-05,32,,ASK				12/19 als
24	73639-06	L2473639-06,32,,ASK				12/19 als
25	73350-08	L2473350-08,32,,ASK				ljg 12/20
26	73350-09	L2473350-09,32,,ASK				ljg 12/20
27	73350-10	L2473350-10,32,,ASK			ASK	ljg 12/20
					sv-im	

ORGANIC ELN REPORT

Workgroup: WG2010761

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EJ507
Surrogate Type: ABN **Lot #:** 11164av,05/20/2025,4c,7,1
Spike Type: ABN **Lot #:** 11106ae-042325, 11092af,03/3
Spike Verify by: NBD/JCL
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
L2473190-06 SAMP	12/18/24 15:49	Richard Nyarko	100	<2, >12	.1		12/18/24 23:50	John Awuah	1	K
L2473420-01 SAMP	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K
L2473420-02 SAMP	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K
L2473420-03 SAMP	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K
L2473420-04 SAMP	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K
	HEAVY EMULSION									
L2473538-01 SAMP	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K
L2473538-02 SAMP	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K

Reported: 20-DEC-24 03:46 PM

ORGANIC ELN REPORT

Workgroup: WG2010761

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
L2473538-03 SAMP	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K
L2473538-04 SAMP	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K
L2473538-05 SAMP	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K
L2473561-03 SAMP	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K
L2473561-06 SAMP	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K
L2473639-01 SAMP	12/18/24 13:29	Nicholas Dunn	75	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K
lim vol rcvd from client, BROUGHT UP TO 100mL WITH 25 mL DI										
L2473639-02 SAMP	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K
L2473639-03 SAMP	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K
L2473639-04 SAMP	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K
L2473639-05 SAMP	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K

ORGANIC ELN REPORT

Workgroup: WG2010761

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
L2473639-06 SAMP	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K
WG2010761-1 BLANK	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K
	WG2010761,WG2010762									
WG2010761-2 LCS	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1	.1	12/18/24 18:14	Victor Kono	1	K
WG2010761-3 LCSD	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1	.1	12/18/24 18:14	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: L2473538
Project Number: 2232.0006Y005
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
PZ-5 (L2473538-01)	35	27	56	57	54	71	0
MW-5D (L2473538-02)	44	33	66	65	59	80	0
SCDOH-DR (L2473538-03)	42	31	65	65	63	84	0
MW-10S (L2473538-04)	37	28	60	61	56	78	0
MW-10D (L2473538-05)	37	27	57	56	51	71	0
WG2010762-1BLANK	44	33	66	63	58	77	0
WG2010762-2LCS	49	37	65	63	84	83	0
WG2010762-3LCSD	47	35	62	59	74	70	0

QC LIMITS

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

* Values outside of QC limits

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG2010762-2 **Analysis Date** : 12/19/24 08:25	**File ID**	: 010762-2
LCSD Sample ID	: WG2010762-3 **Analysis Date** : 12/19/24 08:41	**File ID**	: 010762-3

	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	66	20	12	62	6	40-140	40
2-Chloronaphthalene	20	11	57	20	11	55	4	40-140	40
Fluoranthene	20	18	88	20	15	74	17	40-140	40
Hexachlorobutadiene	20	9.3	46	20	9.0	45	2	40-140	40
Naphthalene	20	12	59	20	11	56	5	40-140	40
Benzo(a)anthracene	20	17	86	20	15	74	15	40-140	40
Benzo(a)pyrene	20	18	88	20	15	76	15	40-140	40
Benzo(b)fluoranthene	20	17	86	20	14	70	21	40-140	40
Benzo(k)fluoranthene	20	17	86	20	16	78	10	40-140	40
Chrysene	20	19	93	20	16	79	16	40-140	40
Acenaphthylene	20	13	65	20	12	61	6	40-140	40
Anthracene	20	16	82	20	14	70	16	40-140	40
Benzo(ghi)perylene	20	17	87	20	15	74	16	40-140	40
Fluorene	20	15	75	20	13	67	11	40-140	40
Phenanthrene	20	17	84	20	14	72	15	40-140	40
Dibenzo(a,h)anthracene	20	18	91	20	16	78	15	40-140	40
Indeno(1,2,3-cd)pyrene	20	18	91	20	16	78	15	40-140	40
Pyrene	20	18	88	20	15	75	16	40-140	40
2-Methylnaphthalene	20	11	57	20	11	55	4	40-140	40
Pentachlorophenol	20	17	84	20	15	77	9	40-140	40
Hexachlorobenzene	20	16	79	20	14	69	14	40-140	40
Hexachloroethane	20	10	50	20	9.8	49	2	40-140	40
Bis(2-chloroethyl)ether	20	12	63	20	12	60	5	40-140	40

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG2010762-1	**Lab File ID**	: 010762-1
Instrument ID	: SV120	**Extraction Date**	: 12/18/24
Matrix	: WATER	**Analysis Date**	: 12/19/24 08:57
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG2010762-2LCS	WG2010762-2	12/19/24 08:25
WG2010762-3LCSD	WG2010762-3	12/19/24 08:41
PZ-5	L2473538-01	12/19/24 09:14
MW-5D	L2473538-02	12/19/24 09:30
SCDOH-DR	L2473538-03	12/19/24 09:46
MW-10S	L2473538-04	12/19/24 10:18
MW-10D	L2473538-05	12/19/24 10:35

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 11/05/24 06:14
Tune Standard	: R1896399-12	**Tune File ID**	: TUNE_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	54.6
68	Less than 2.0% of mass 69	0.7 (1.7)1
69		100
70	Less than 2.0% of mass 69	0.2 (.6)1
127	10.0 - 80.0% of Base Peak	54.3
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	6.2
275	10.0 - 60.0% of Base Peak	24.2
365	Greater than 1.0% of mass 198	2.8
441	Present, but less than 24% of mass 442	16.6
442	Base Peak, or >50% of mass 198	73.2
443	15.0 - 24.0% of mass 442	14.6 (20)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
IL10	R1896399-3	IL10	11/05/24 07:30
IL9	R1896399-11	IL9	11/05/24 07:47
IL8	R1896399-10	IL8	11/05/24 08:03
IL7	R1896399-9	IL7	11/05/24 08:19
IL6	R1896399-8	IL6	11/05/24 08:36
IL5	R1896399-7	IL5	11/05/24 08:52
IL4	R1896399-5	IL4	11/05/24 09:08
IL3	R1896399-6	IL3	11/05/24 09:24
IL2	R1896399-4	IL2	11/05/24 09:41
IL1	R1896399-2	IL1	11/05/24 09:57
	R1896399-1	ICV	11/05/24 10:13

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 12/19/24 06:47
Tune Standard	: WG2011166-1	**Tune File ID**	: deg1219_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	54.1
68	Less than 2.0% of mass 69	0.6 (1.6)1
69		100
70	Less than 2.0% of mass 69	0 (0)1
127	10.0 - 80.0% of Base Peak	56.1
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	24.5
365	Greater than 1.0% of mass 198	2.4
441	Present, but less than 24% of mass 442	17.3
442	Base Peak, or >50% of mass 198	71.7
443	15.0 - 24.0% of mass 442	12.7 (17.7)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
WG2011166-4TFACTOR-B	WG2011166-4	DEG1219	12/19/24 06:47
WG2011166-5TFACTOR-P	WG2011166-5	DEG1219	12/19/24 06:47
WG2011166-3CCAL	WG2011166-3	CCV1219	12/19/24 07:05
WG2010762-2LCS	WG2010762-2	010762-2	12/19/24 08:25
WG2010762-3LCSD	WG2010762-3	010762-3	12/19/24 08:41
WG2010762-1BLANK	WG2010762-1	010762-1	12/19/24 08:57
PZ-5	L2473538-01	73538-01	12/19/24 09:14
MW-5D	L2473538-02	73538-02	12/19/24 09:30
SCDOH-DR	L2473538-03	73538-03	12/19/24 09:46
MW-10S	L2473538-04	73538-04	12/19/24 10:18
MW-10D	L2473538-05	73538-05	12/19/24 10:35

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 12/19/24 07:05:00
Sample No	: WG2011166-3	**Lab File ID**	: CCV1219

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG2011166-3	183438	2.32	731006	2.98	431670	3.96
Upper Limit	366876	2.82	1462012	3.48	863340	4.46
Lower Limit	91719	1.82	365503	2.48	215835	3.46
Sample ID						
WG2010762-2 LCS	157354	2.32	637480	2.98	350936	3.96
WG2010762-3 LCSD	162159	2.32	656765	2.98	364354	3.96
WG2010762-1 BLANK	155263	2.32	604218	2.98	341988	3.96
PZ-5	162117	2.32	626716	2.98	357570	3.96
MW-5D	146363	2.32	570722	2.98	324359	3.96
SCDOH-DR	152539	2.32	593494	2.98	343728	3.96
MW-10S	160019	2.32	622539	2.98	358238	3.96
MW-10D	160085	2.32	627591	2.98	358152	3.96

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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 12/19/24 07:05:00
Sample No	: WG2011166-3	**Lab File ID**	: CCV1219

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG2011166-3	877889	4.81	872898	6.42	860499	7.71
Upper Limit	1755778	5.31	1745796	6.92	1720998	8.21
Lower Limit	438945	4.31	436449	5.92	430250	7.21
Sample ID						
WG2010762-2 LCS	676506	4.80	609322	6.39	625066	7.68
WG2010762-3 LCSD	714846	4.80	628327	6.39	627276	7.68
WG2010762-1 BLANK	664718	4.80	623597	6.39	608963	7.68
PZ-5	692876	4.80	636865	6.39	624218	7.67
MW-5D	634936	4.80	585270	6.38	574064	7.67
SCDOH-DR	688265	4.80	664960	6.39	635800	7.67
MW-10S	710966	4.80	682583	6.39	664292	7.67
MW-10D	717187	4.80	688994	6.39	665401	7.68

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

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

* Values outside of QC limits

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

EPA 8270E Low Level PAH (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	0.1	0.035	ug/l	40-140	40	40-140	40	40			
2-Chloronaphthalene	91-58-7	0.2	0.035	ug/l	40-140	40	40-140	40	40			
Fluoranthene	206-44-0	0.1	0.038	ug/l	40-140	40	40-140	40	40			
Hexachlorobutadiene	87-68-3	0.5	0.036	ug/l	40-140	40	40-140	40	40			
Naphthalene	91-20-3	0.1	0.043	ug/l	40-140	40	40-140	40	40			
Benzo(a)anthracene	56-55-3	0.1	0.018	ug/l	40-140	40	40-140	40	40			
Benzo(a)pyrene	50-32-8	0.1	0.039	ug/l	40-140	40	40-140	40	40			
Benzo(b)fluoranthene	205-99-2	0.1	0.016	ug/l	40-140	40	40-140	40	40			
Benzo(k)fluoranthene	207-08-9	0.1	0.042	ug/l	40-140	40	40-140	40	40			
Chrysene	218-01-9	0.1	0.038	ug/l	40-140	40	40-140	40	40			
Acenaphthylene	208-96-8	0.1	0.035	ug/l	40-140	40	40-140	40	40			
Anthracene	120-12-7	0.1	0.035	ug/l	40-140	40	40-140	40	40			
Benzo(ghi)perylene	191-24-2	0.1	0.042	ug/l	40-140	40	40-140	40	40			
Fluorene	86-73-7	0.1	0.037	ug/l	40-140	40	40-140	40	40			
Phenanthrene	85-01-8	0.1	0.015	ug/l	40-140	40	40-140	40	40			
Dibenzo(a,h)anthracene	53-70-3	0.1	0.039	ug/l	40-140	40	40-140	40	40			
Indeno(1,2,3-cd)Pyrene	193-39-5	0.1	0.04	ug/l	40-140	40	40-140	40	40			
Pyrene	129-00-0	0.1	0.04	ug/l	40-140	40	40-140	40	40			
1-Methylnaphthalene	90-12-0	0.1	0.041	ug/l	40-140	40	40-140	40	40			
2-Methylnaphthalene	91-57-6	0.1	0.045	ug/l	40-140	40	40-140	40	40			
Pentachlorophenol	87-86-5	0.8	0.22	ug/l	40-140	40	40-140	40	40			
Hexachlorobenzene	118-74-1	0.8	0.032	ug/l	40-140	40	40-140	40	40			
Hexachloroethane	67-72-1	0.8	0.03	ug/l	40-140	40	40-140	40	40			
2-Fluorophenol	*367-12-4*									*21-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*15-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-120*		
4-Terphenyl-d14	*1718-51-0*									*41-149*		

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

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

EPA 8270E Low Level PAH (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	6.68	1.4028	ug/kg	40-140	50	40-140	50	50			
2-Chloronaphthalene	91-58-7	6.68	0.8684	ug/kg	40-140	50	40-140	50	50			
Fluoranthene	206-44-0	6.68	0.4676	ug/kg	40-140	50	40-140	50	50			
Hexachlorobutadiene	87-68-3	6.68	0.9352	ug/kg	34-107	50	40-140	50	50			
Naphthalene	91-20-3	6.68	1.2024	ug/kg	40-140	50	40-140	50	50			
Benzo(a)anthracene	56-55-3	6.68	0.6346	ug/kg	40-140	50	40-140	50	50			
Benzo(a)pyrene	50-32-8	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Benzo(b)fluoranthene	205-99-2	6.68	0.6346	ug/kg	40-140	50	40-140	50	50			
Benzo(k)fluoranthene	207-08-9	6.68	0.6012	ug/kg	40-140	50	40-140	50	50			
Chrysene	218-01-9	6.68	0.501	ug/kg	40-140	50	40-140	50	50			
Acenaphthylene	208-96-8	6.68	0.835	ug/kg	40-140	50	40-140	50	50			
Anthracene	120-12-7	6.68	0.5344	ug/kg	40-140	50	40-140	50	50			
Benzo(ghi)perylene	191-24-2	6.68	0.5678	ug/kg	40-140	50	40-140	50	50			
Fluorene	86-73-7	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Phenanthrene	85-01-8	6.68	0.5678	ug/kg	40-140	50	40-140	50	50			
Dibenzo(a,h)anthracene	53-70-3	6.68	0.668	ug/kg	40-140	50	40-140	50	50			
Indeno(1,2,3-cd)Pyrene	193-39-5	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Pyrene	129-00-0	6.68	0.4676	ug/kg	35-142	50	35-142	50	50			
1-Methylnaphthalene	90-12-0	6.68	1.0354	ug/kg	40-140	50	40-140	50	50			
2-Methylnaphthalene	91-57-6	6.68	1.9038	ug/kg	40-140	50	40-140	50	50			
Pentachlorophenol	87-86-5	26.72	2.9392	ug/kg	17-109	50	17-109	50	50			
Hexachlorobenzene	118-74-1	6.68	0.7014	ug/kg	40-140	50	40-140	50	50			
Hexachloroethane	67-72-1	6.68	1.2358	ug/kg	29-106	50	40-140	50	50			
2-Fluorophenol	*367-12-4*									*25-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*30-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-136*		
4-Terphenyl-d14	*1718-51-0*									*18-120*		

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

Semivolatile Sample Data

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-01	**Date Collected**	: 12/13/24 08:20
Client ID	: PZ-5	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 09:14
Sample Matrix	: WATER	**Date Extracted**	: 12/18/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 73538-01	**Analyst**	: SBC
Sample Amount	: 100 ml	**Instrument ID**	: SV120
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	0.08	0.80	0.06	J
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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-01	**Date Collected**	: 12/13/24 08:20
Client ID	: PZ-5	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 09:14
Sample Matrix	: WATER	**Date Extracted**	: 12/18/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 73538-01	**Analyst**	: SBC
Sample Amount	: 100 ml	**Instrument ID**	: SV120
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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-02	**Date Collected**	: 12/13/24 09:45
Client ID	: MW-5D	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 09:30
Sample Matrix	: WATER	**Date Extracted**	: 12/18/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 73538-02	**Analyst**	: SBC
Sample Amount	: 100 ml	**Instrument ID**	: SV120
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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-02	**Date Collected**	: 12/13/24 09:45
Client ID	: MW-5D	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 09:30
Sample Matrix	: WATER	**Date Extracted**	: 12/18/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 73538-02	**Analyst**	: SBC
Sample Amount	: 100 ml	**Instrument ID**	: SV120
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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-03	**Date Collected**	: 12/13/24 11:20
Client ID	: SCDOH-DR	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 09:46
Sample Matrix	: WATER	**Date Extracted**	: 12/18/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 73538-03	**Analyst**	: SBC
Sample Amount	: 100 ml	**Instrument ID**	: SV120
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	0.08	0.80	0.06	J
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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-03	**Date Collected**	: 12/13/24 11:20
Client ID	: SCDOH-DR	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 09:46
Sample Matrix	: WATER	**Date Extracted**	: 12/18/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 73538-03	**Analyst**	: SBC
Sample Amount	: 100 ml	**Instrument ID**	: SV120
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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-04	**Date Collected**	: 12/13/24 12:43
Client ID	: MW-10S	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 10:18
Sample Matrix	: WATER	**Date Extracted**	: 12/18/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 73538-04	**Analyst**	: SBC
Sample Amount	: 100 ml	**Instrument ID**	: SV120
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	0.08	0.80	0.06	J
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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-04	**Date Collected**	: 12/13/24 12:43
Client ID	: MW-10S	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 10:18
Sample Matrix	: WATER	**Date Extracted**	: 12/18/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 73538-04	**Analyst**	: SBC
Sample Amount	: 100 ml	**Instrument ID**	: SV120
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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-05	**Date Collected**	: 12/13/24 12:30
Client ID	: MW-10D	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 10:35
Sample Matrix	: WATER	**Date Extracted**	: 12/18/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 73538-05	**Analyst**	: SBC
Sample Amount	: 100 ml	**Instrument ID**	: SV120
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	0.08	0.80	0.06	J
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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-05	**Date Collected**	: 12/13/24 12:30
Client ID	: MW-10D	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 10:35
Sample Matrix	: WATER	**Date Extracted**	: 12/18/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 73538-05	**Analyst**	: SBC
Sample Amount	: 100 ml	**Instrument ID**	: SV120
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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010762-1	**Date Collected**	: NA
Client ID	: WG2010762-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/19/24 08:57
Sample Matrix	: WATER	**Date Extracted**	: 12/18/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 010762-1	**Analyst**	: SLR
Sample Amount	: 100 ml	**Instrument ID**	: SV120
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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010762-1	**Date Collected**	: NA
Client ID	: WG2010762-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/19/24 08:57
Sample Matrix	: WATER	**Date Extracted**	: 12/18/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 010762-1	**Analyst**	: SLR
Sample Amount	: 100 ml	**Instrument ID**	: SV120
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\sv120\241219RVT\
Data File : 73538-01.D
Acq On : 19 Dec 2024 09:14 am
Operator : SV120:sbc
Sample : L2473538-01,32,,kmh
Misc : WG2011166,WG2010762,ical21668
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 19 14:09:11 2024
Quant Method : I:\8270sim\sv120\241219RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 19 07:31:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\241219RVT\ccv1219.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.318	152	162117	4000.000	ng/ml	0.00
Standard Area 1 = 183438			Recovery = 88.38%			
8) Naphthalene-d8	2.979	136	626716	4000.000	ng/ml	0.00
Standard Area 1 = 731006			Recovery = 85.73%			
17) Acenaphthene-d10	3.960	164	357570	4000.000	ng/ml	0.00
Standard Area 1 = 431670			Recovery = 82.83%			
22) Phenanthrene-d10	4.804	188	692876	4000.000	ng/ml	0.00
Standard Area 1 = 877889			Recovery = 78.93%			
31) Chrysene-d12	6.387	240	636865	4000.000	ng/ml	-0.03
Standard Area 1 = 872898			Recovery = 72.96%			
36) Perylene-d12	7.673	264	624218	4000.000	ng/ml	-0.03
Standard Area 1 = 860499			Recovery = 72.54%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.744	112	33818	708.694	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 35.43%			
3) Phenol-d6	2.132	99	31307	533.944	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 26.70%			
7) Nitrobenzene-d5	2.597	82	28871	557.763	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 55.78%			
13) 2-Fluorobiphenyl	3.575	172	71413	565.342	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 56.53%			
21) 2,4,6-Tribromophenol	4.406	330	15496	1088.646	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 54.43%			
30) 4-Terphenyl-d14	5.726	244	89529	710.618	ng/ml	-0.02
Spiked Amount 2000.000	Range 30 - 130		Recovery = 35.53%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D. d		
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	0.000		0	N.D. d		
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.		
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.		
18) Acenaphthene	0.000		0	N.D. d		
20) Fluorene	0.000		0	N.D. d		
24) Hexachlorobenzene	0.000		0	N.D.		

Data Path : I:\8270SIM\sv120\241219RVT\
Data File : 73538-01.D
Acq On : 19 Dec 2024 09:14 am
Operator : SV120:sbc
Sample : L2473538-01,32,,kmh
Misc : WG2011166,WG2010762,ical21668
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 19 14:09:11 2024
Quant Method : I:\8270sim\sv120\241219RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 19 07:31:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\241219RVT\ccv1219.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	4.698	266	22M3	8.088	ng/ml	
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	

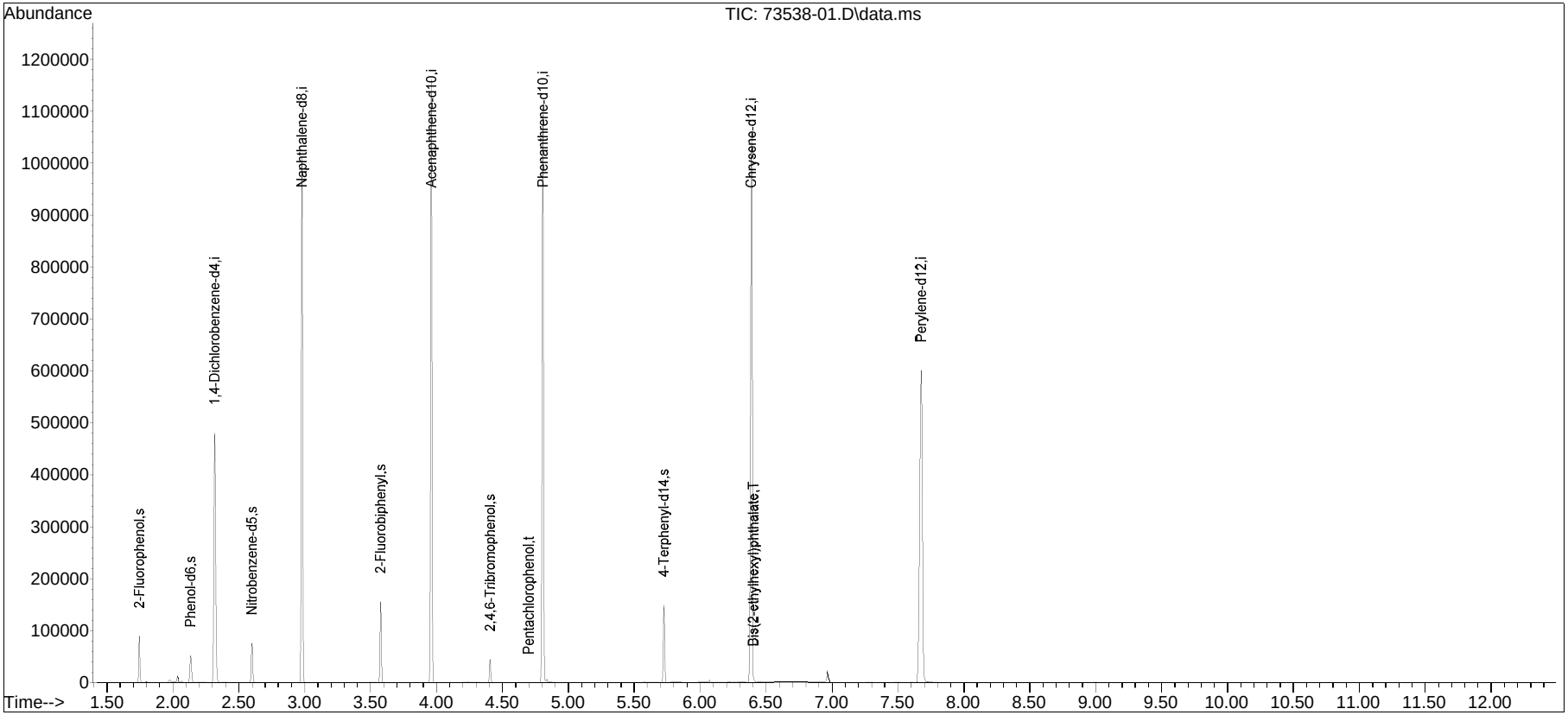
(#) = qualifier out of range (m) = manual integration (+) = signals summed

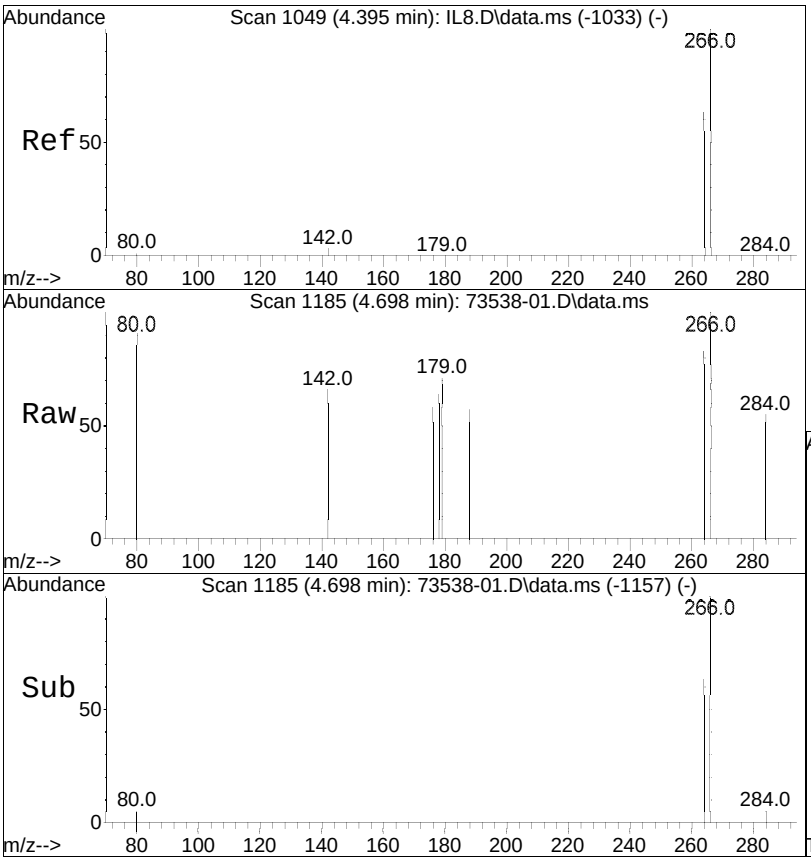
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\241219RVT\
Data File : 73538-01.D
Acq On : 19 Dec 2024 09:14 am
Operator : SV120:sbc
Sample : L2473538-01,32,,kmh
Misc : WG2011166,WG2010762,ical21668
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 19 14:09:11 2024
Quant Method : I:\8270sim\sv120\241219RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 19 07:31:52 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv1219.D•

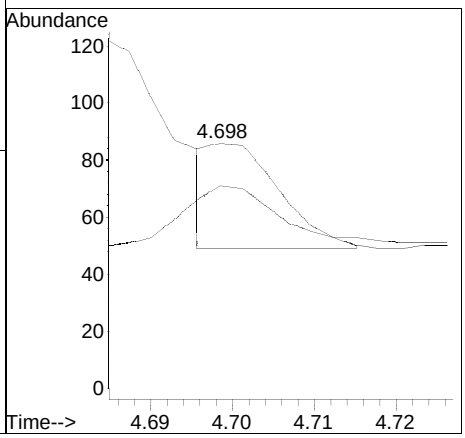




#25
Pentachlorophenol
Concen: 8.09 ng/ml M3
RT: 4.698 min Scan# 1185
Delta R.T. -0.002 min
Lab File: 73538-01.D
Acq: 19 Dec 2024 09:14 am

Tgt Ion:266 Resp: 22

Ion	Ratio	Lower	Upper
266	100		
264	77.3	50.3	75.5#

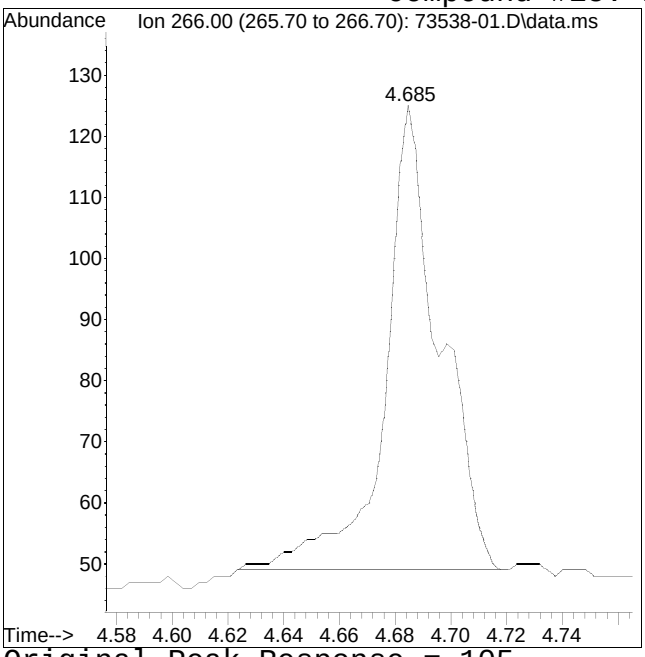


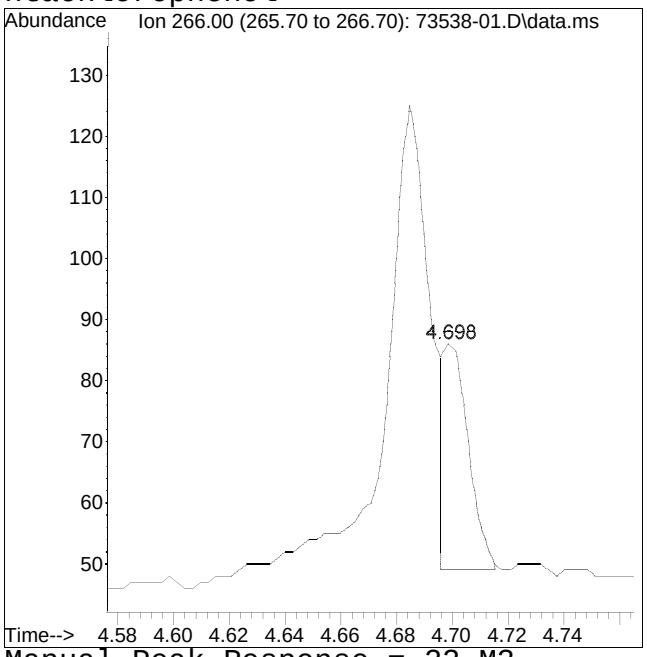
Manual Integration Report

Data Path : I:\8270SIM\sv120\241219RVTQ
Data File : 73538-01.D
Date Inj'd : 12/19/2024 9:14 am
Sample : L2473538-01,32,,kmh

Method : SIM-RVT_241105_sv120.M
Operator : SV120:sbc
Instrument : SV120
Quant Date : 12/19/2024 9:27 am

Compound #25: Pentachlorophenol





Original Peak Response = 105 Manual Peak Response = 22 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\sv120\241219RVT\
Data File : 73538-02.D
Acq On : 19 Dec 2024 09:30 am
Operator : SV120:sbc
Sample : L2473538-02,32,,kmh
Misc : WG2011166,WG2010762,ical21668
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 19 14:18:55 2024
Quant Method : I:\8270sim\sv120\241219RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 19 07:31:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\241219RVT\ccv1219.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.318	152	146363	4000.000	ng/ml	0.00
Standard Area 1 = 183438			Recovery = 79.79%			
8) Naphthalene-d8	2.981	136	570722	4000.000	ng/ml	0.00
Standard Area 1 = 731006			Recovery = 78.07%			
17) Acenaphthene-d10	3.960	164	324359	4000.000	ng/ml	0.00
Standard Area 1 = 431670			Recovery = 75.14%			
22) Phenanthrene-d10	4.802	188	634936	4000.000	ng/ml	0.00
Standard Area 1 = 877889			Recovery = 72.33%			
31) Chrysene-d12	6.383	240	585270	4000.000	ng/ml	-0.03
Standard Area 1 = 872898			Recovery = 67.05%			
36) Perylene-d12	7.668	264	574064	4000.000	ng/ml	-0.04
Standard Area 1 = 860499			Recovery = 66.71%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.744	112	38208	886.875	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 44.34%			
3) Phenol-d6	2.132	99	35076	662.615	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 33.13%			
7) Nitrobenzene-d5	2.597	82	30850	660.147	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 66.01%			
13) 2-Fluorobiphenyl	3.575	172	75189	653.634	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 65.36%			
21) 2,4,6-Tribromophenol	4.405	330	15288	1184.003	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 59.20%			
30) 4-Terphenyl-d14	5.724	244	92845	804.186	ng/ml	-0.02
Spiked Amount 2000.000	Range 30 - 130		Recovery = 40.21%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D.		
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	0.000		0	N.D.	d	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.	d	
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.		
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	0.000		0	N.D.		

Data Path : I:\8270SIM\sv120\241219RVT\
Data File : 73538-02.D
Acq On : 19 Dec 2024 09:30 am
Operator : SV120:sbc
Sample : L2473538-02,32,,kmh
Misc : WG2011166,WG2010762,ical21668
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 19 14:18:55 2024
Quant Method : I:\8270sim\sv120\241219RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 19 07:31:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\241219RVT\ccv1219.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.		
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

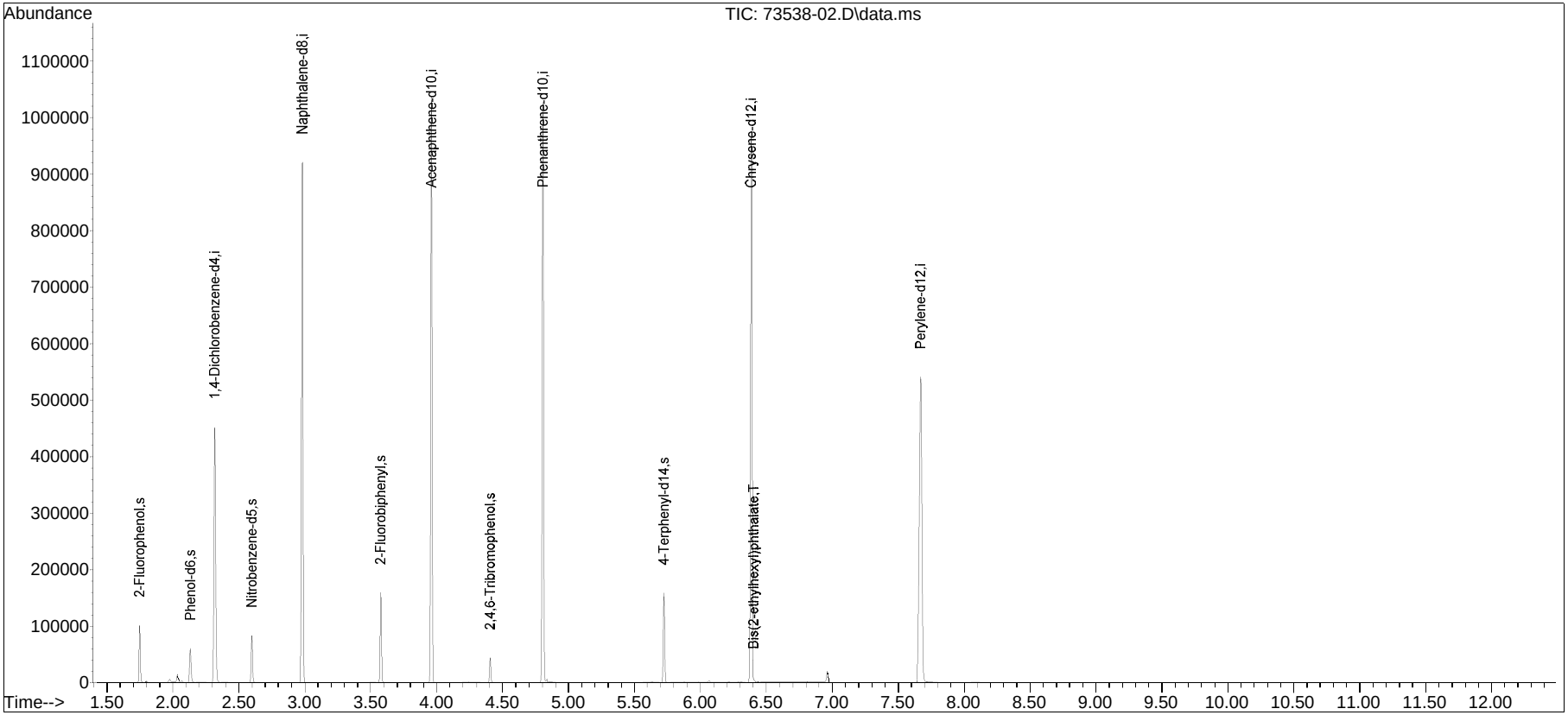
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\241219RVT\
Data File : 73538-02.D
Acq On : 19 Dec 2024 09:30 am
Operator : SV120:sbc
Sample : L2473538-02,32,,kmh
Misc : WG2011166,WG2010762,ical21668
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 19 14:18:55 2024
Quant Method : I:\8270sim\sv120\241219RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 19 07:31:52 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv1219.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv120\241219RVTQ	Method	: SIM-RVT_241105_sv120.M
Data File	: 73538-02.D	Operator	: SV120:sbc
Date Inj'd	: 12/19/2024 9:30 am	Instrument	: SV120
Sample	: L2473538-02,32,,kmh	Quant Date	: 12/19/2024 9:43 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\241219RVT\
Data File : 73538-03.D
Acq On : 19 Dec 2024 09:46 am
Operator : SV120:sbc
Sample : L2473538-03,32,,kmh
Misc : WG2011166,WG2010762,ical21668
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 19 14:23:35 2024
Quant Method : I:\8270sim\sv120\241219RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 19 07:31:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\241219RVT\ccv1219.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.318	152	152539	4000.000	ng/ml	0.00
Standard Area 1 = 183438			Recovery = 83.16%			
8) Naphthalene-d8	2.981	136	593494	4000.000	ng/ml	0.00
Standard Area 1 = 731006			Recovery = 81.19%			
17) Acenaphthene-d10	3.957	164	343728	4000.000	ng/ml	0.00
Standard Area 1 = 431670			Recovery = 79.63%			
22) Phenanthrene-d10	4.803	188	688265	4000.000	ng/ml	0.00
Standard Area 1 = 877889			Recovery = 78.40%			
31) Chrysene-d12	6.386	240	664960	4000.000	ng/ml	-0.03
Standard Area 1 = 872898			Recovery = 76.18%			
36) Perylene-d12	7.672	264	635800	4000.000	ng/ml	-0.04
Standard Area 1 = 860499			Recovery = 73.89%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.745	112	37523	835.711	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 41.79%			
3) Phenol-d6	2.132	99	34223	620.326	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 31.02%			
7) Nitrobenzene-d5	2.597	82	31517	647.114	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 64.71%			
13) 2-Fluorobiphenyl	3.576	172	78134	653.174	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 65.32%			
21) 2,4,6-Tribromophenol	4.406	330	17309	1264.984	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 63.25%			
30) 4-Terphenyl-d14	5.725	244	104656	836.250	ng/ml	-0.02
Spiked Amount 2000.000	Range 30 - 130		Recovery = 41.81%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D. d		
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	0.000		0	N.D. d		
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.		
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.		
18) Acenaphthene	3.957	153	50	0.482	ng/ml#	1
20) Fluorene	0.000		0	N.D. d		
24) Hexachlorobenzene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\241219RVT\
Data File : 73538-03.D
Acq On : 19 Dec 2024 09:46 am
Operator : SV120:sbc
Sample : L2473538-03,32,,kmh
Misc : WG2011166,WG2010762,ical21668
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 19 14:23:35 2024
Quant Method : I:\8270sim\sv120\241219RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 19 07:31:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\241219RVT\ccv1219.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	4.697	266	22M1	8.095	ng/ml	
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.		
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

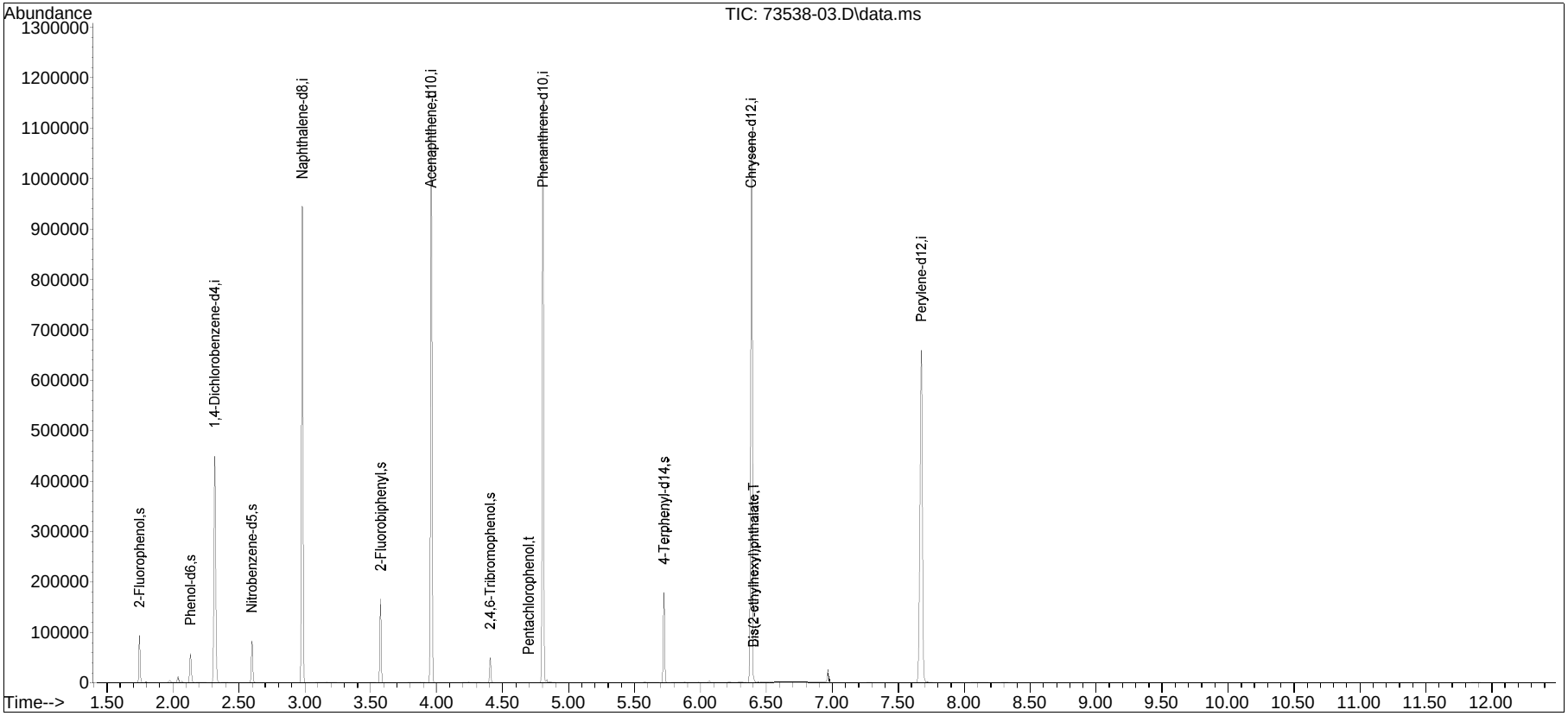
(#) = qualifier out of range (m) = manual integration (+) = signals summed

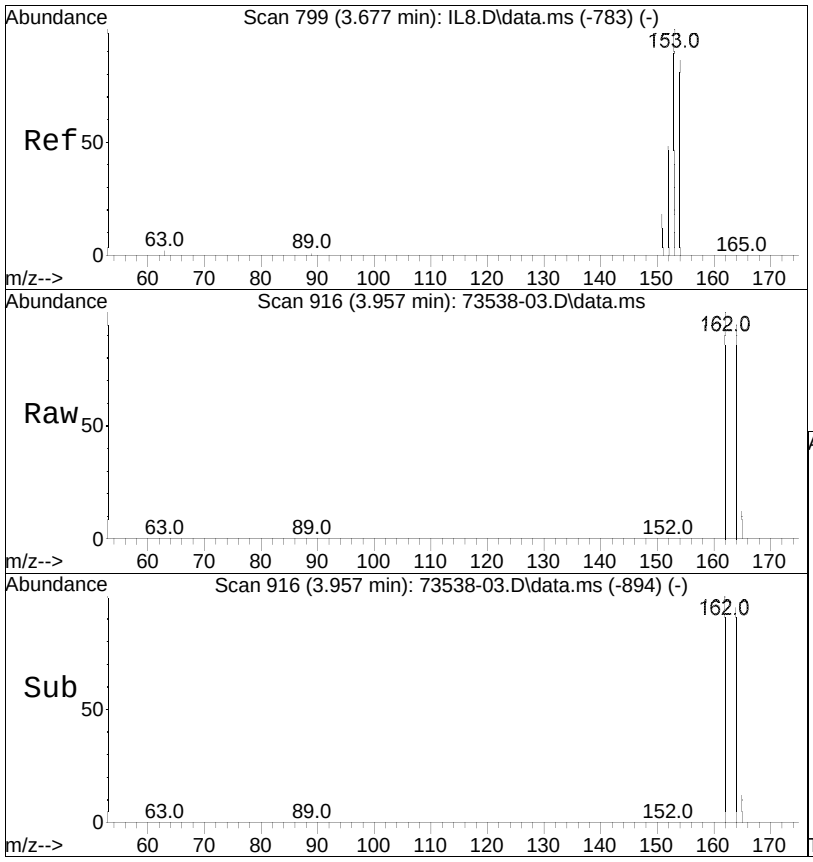
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\241219RVT\
Data File : 73538-03.D
Acq On : 19 Dec 2024 09:46 am
Operator : SV120:sbc
Sample : L2473538-03,32,,kmh
Misc : WG2011166,WG2010762,ical21668
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 19 14:23:35 2024
Quant Method : I:\8270sim\sv120\241219RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 19 07:31:52 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv1219.D•

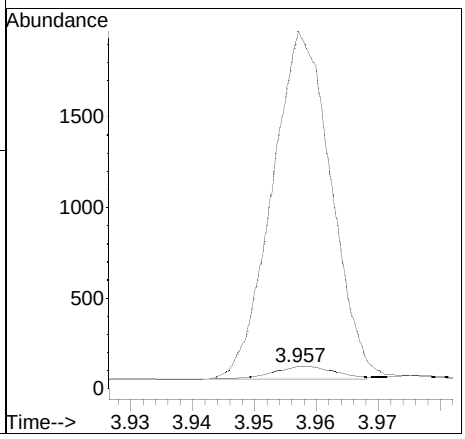


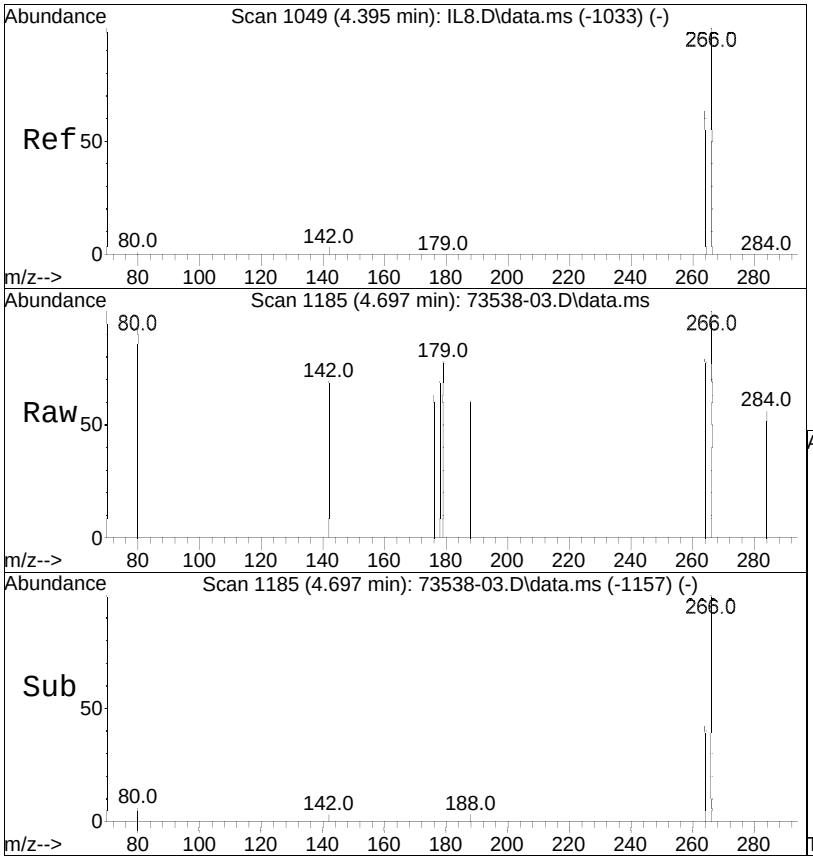


#18
Acenaphthene
Concen: 0.48 ng/ml
RT: 3.957 min Scan# 916
Delta R.T. -0.020 min
Lab File: 73538-03.D
Acq: 19 Dec 2024 09:46 am

Tgt Ion:153 Resp: 50

Ion	Ratio	Lower	Upper
153	100		
154	2570.0	69.8	104.6#

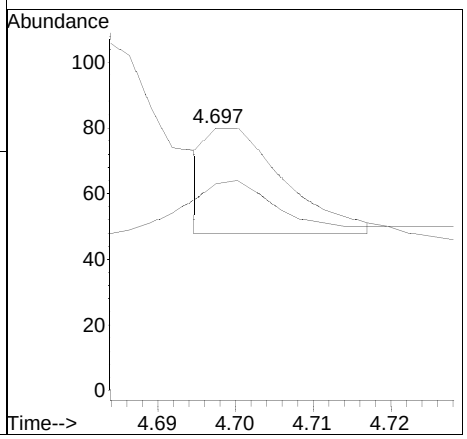




#25
Pentachlorophenol
Concen: 8.10 ng/ml M1
RT: 4.697 min Scan# 1185
Delta R.T. -0.003 min
Lab File: 73538-03.D
Acq: 19 Dec 2024 09:46 am

Tgt Ion:266 Resp: 22

Ion	Ratio	Lower	Upper
266	100		
264	54.5	50.3	75.5

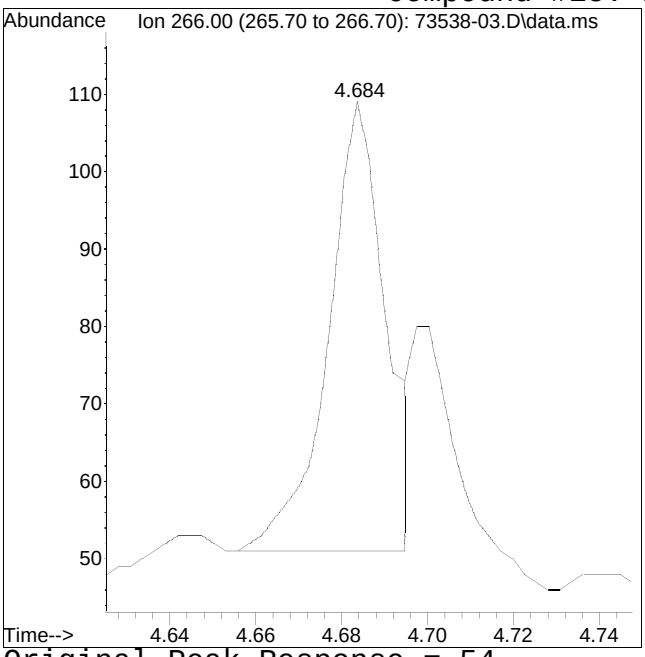


Manual Integration Report

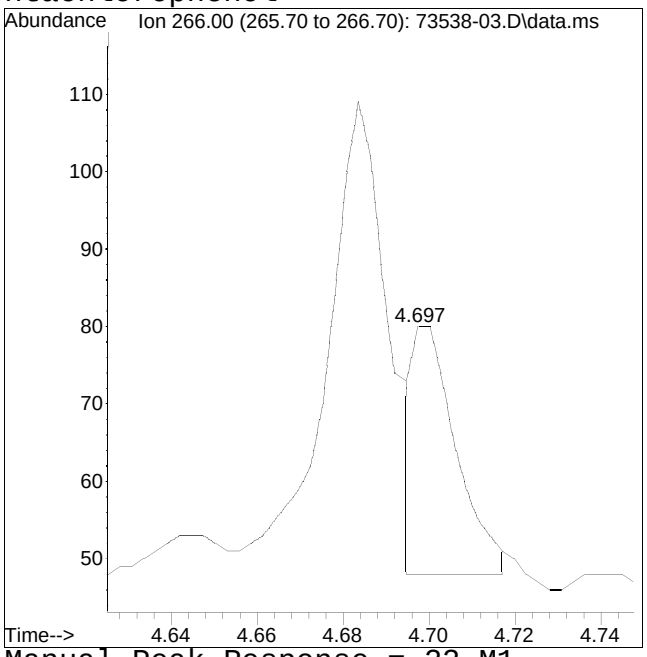
Data Path : I:\8270SIM\sv120\241219RVTQ
Data File : 73538-03.D
Date Inj'd : 12/19/2024 9:46 am
Sample : L2473538-03,32,,kmh

Method : SIM-RVT_241105_sv120.M
Operator : SV120:sbc
Instrument : SV120
Quant Date : 12/19/2024 9:59 am

Compound #25: Pentachlorophenol



Original Peak Response = 54



Manual Peak Response = 22 M1

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\241219RVT\
Data File : 73538-04.D
Acq On : 19 Dec 2024 10:18 am
Operator : SV120:sbc
Sample : L2473538-04,32,,kmh
Misc : WG2011166,WG2010762,ical21668
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 19 14:44:11 2024
Quant Method : I:\8270sim\sv120\241219RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 19 07:31:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\241219RVT\ccv1219.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.318	152	160019	4000.000	ng/ml	0.00
Standard Area 1 = 183438			Recovery = 87.23%			
8) Naphthalene-d8	2.981	136	622539	4000.000	ng/ml	0.00
Standard Area 1 = 731006			Recovery = 85.16%			
17) Acenaphthene-d10	3.960	164	358238	4000.000	ng/ml	0.00
Standard Area 1 = 431670			Recovery = 82.99%			
22) Phenanthrene-d10	4.801	188	710966	4000.000	ng/ml	0.00
Standard Area 1 = 877889			Recovery = 80.99%			
31) Chrysene-d12	6.387	240	682583	4000.000	ng/ml	-0.03
Standard Area 1 = 872898			Recovery = 78.20%			
36) Perylene-d12	7.672	264	664292	4000.000	ng/ml	-0.04
Standard Area 1 = 860499			Recovery = 77.20%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.744	112	35256	748.516	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 37.43%			
3) Phenol-d6	2.132	99	32507	561.679	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 28.08%			
7) Nitrobenzene-d5	2.597	82	30740	601.657	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 60.17%			
13) 2-Fluorobiphenyl	3.575	172	76161	606.975	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 60.70%			
21) 2,4,6-Tribromophenol	4.406	330	16050	1125.464	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 56.27%			
30) 4-Terphenyl-d14	5.726	244	101159	782.499	ng/ml	-0.01
Spiked Amount 2000.000	Range 30 - 130		Recovery = 39.12%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	0.000		0	N.D.	d	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.	d	
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.		
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\241219RVT\
Data File : 73538-04.D
Acq On : 19 Dec 2024 10:18 am
Operator : SV120:sbc
Sample : L2473538-04,32,,kmh
Misc : WG2011166,WG2010762,ical21668
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 19 14:44:11 2024
Quant Method : I:\8270sim\sv120\241219RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 19 07:31:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\241219RVT\ccv1219.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	4.699	266	25M3	8.210	ng/ml	
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.		
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

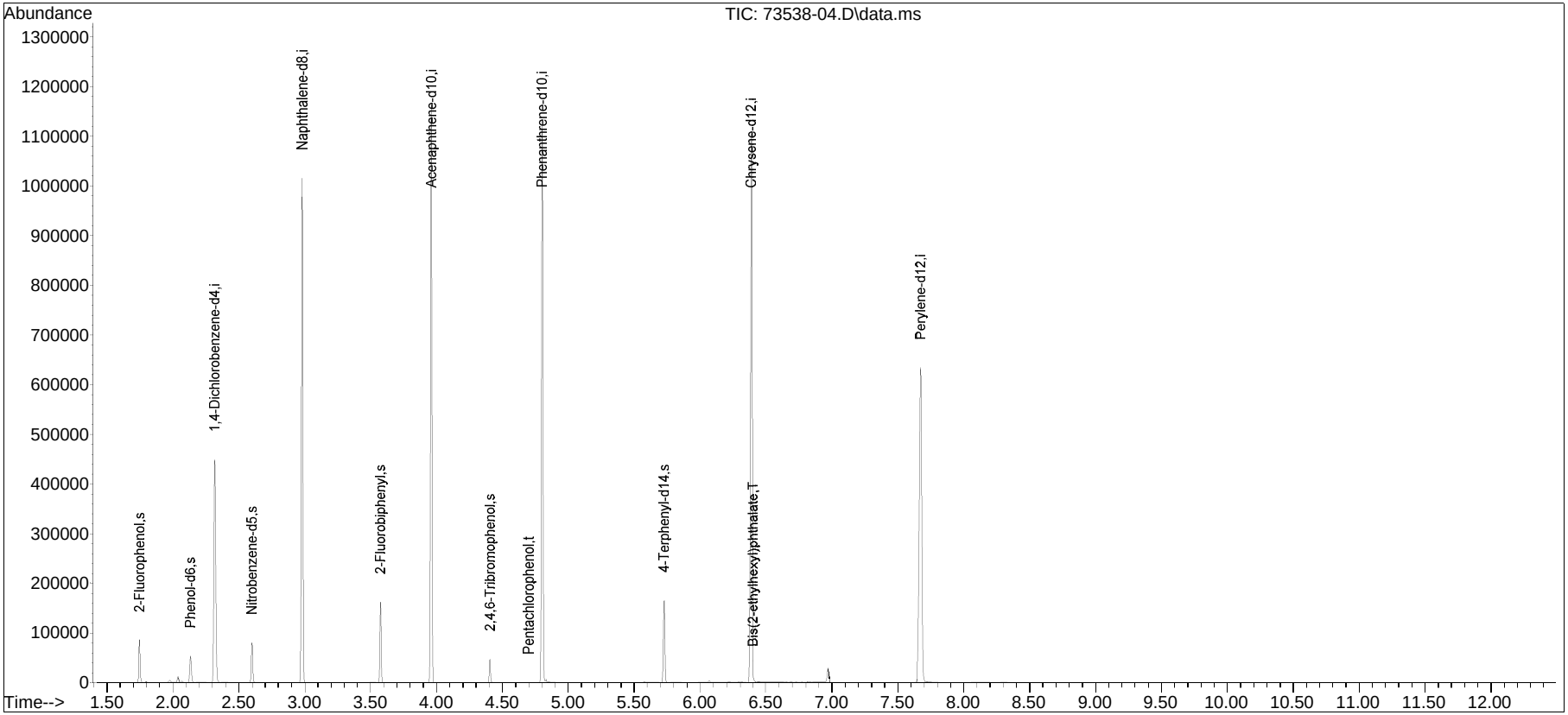
(#) = qualifier out of range (m) = manual integration (+) = signals summed

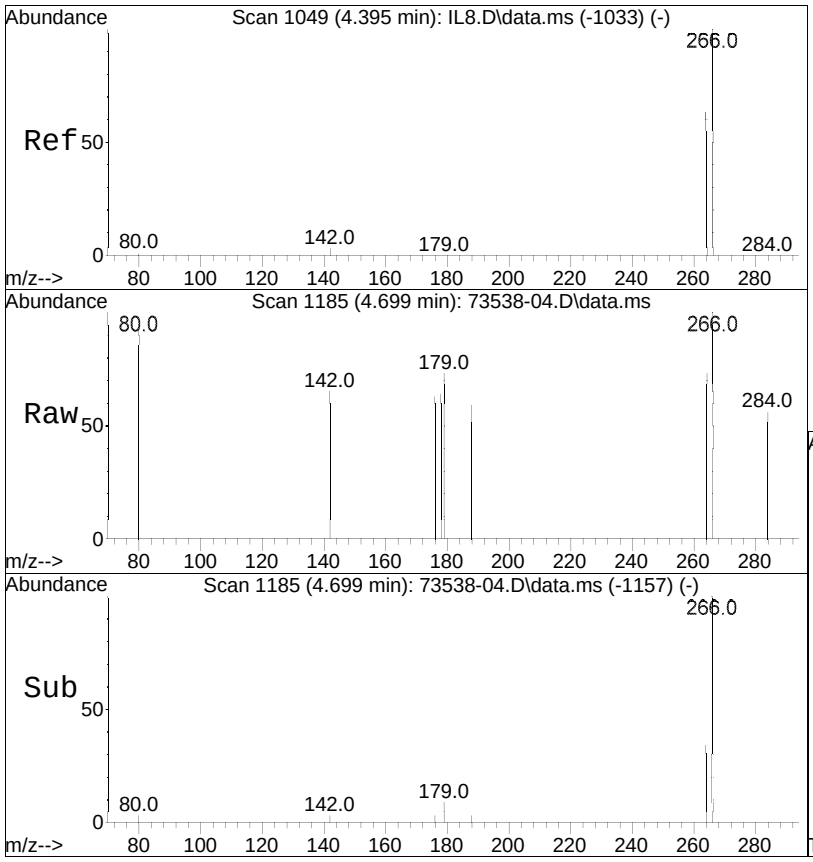
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\241219RVT\
Data File : 73538-04.D
Acq On : 19 Dec 2024 10:18 am
Operator : SV120:sbc
Sample : L2473538-04,32,,kmh
Misc : WG2011166,WG2010762,ical21668
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 19 14:44:11 2024
Quant Method : I:\8270sim\sv120\241219RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 19 07:31:52 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv1219.D•

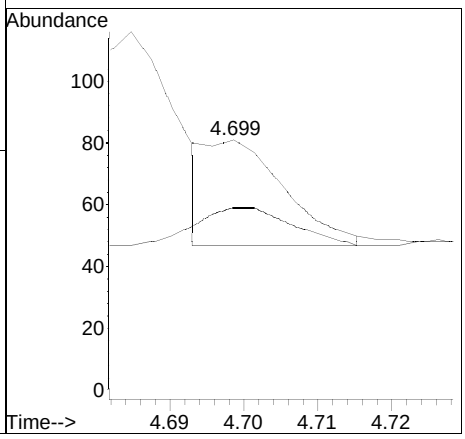




#25
Pentachlorophenol
Concen: 8.21 ng/ml M3
RT: 4.699 min Scan# 1185
Delta R.T. -0.002 min
Lab File: 73538-04.D
Acq: 19 Dec 2024 10:18 am

Tgt Ion:266 Resp: 25

Ion	Ratio	Lower	Upper
266	100		
264	48.0	50.3	75.5#

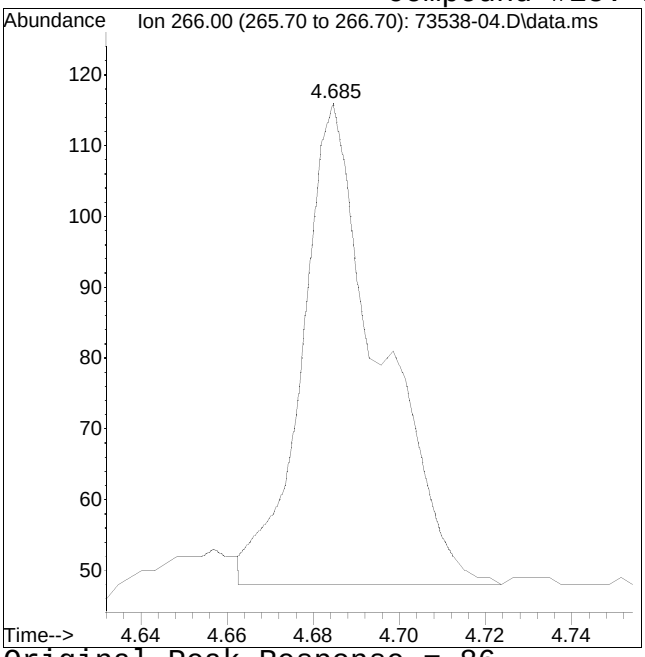


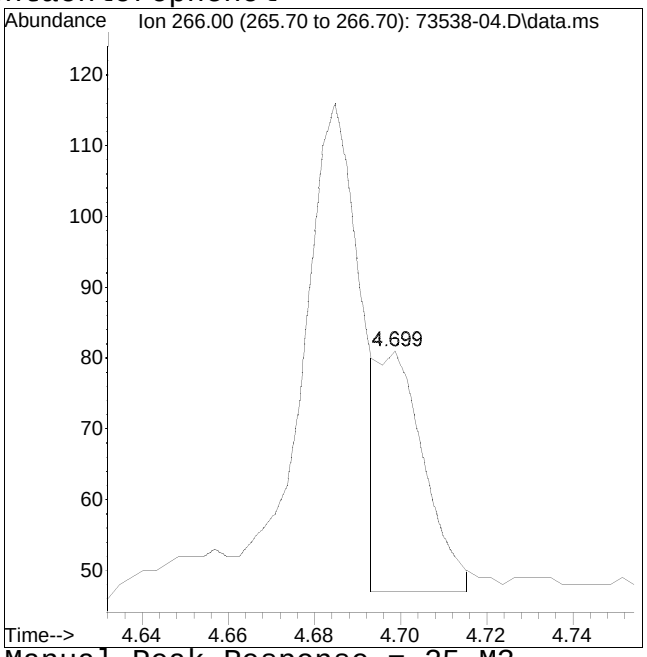
Manual Integration Report

Data Path : I:\8270SIM\sv120\241219RVTQ
Data File : 73538-04.D
Date Inj'd : 12/19/2024 10:18 am
Sample : L2473538-04,32,,kmh

Method : SIM-RVT_241105_sv120.M
Operator : SV120:sbc
Instrument : SV120
Quant Date : 12/19/2024 10:31 am

Compound #25: Pentachlorophenol





Original Peak Response = 86 Manual Peak Response = 25 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\sv120\241219RVT\
Data File : 73538-05.D
Acq On : 19 Dec 2024 10:35 am
Operator : SV120:sbc
Sample : L2473538-05,32,,kmh
Misc : WG2011166,WG2010762,ical21668
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 19 15:02:24 2024
Quant Method : I:\8270sim\sv120\241219RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 19 07:31:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\241219RVT\ccv1219.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.318	152	160085	4000.000	ng/ml	0.00
Standard Area 1 = 183438			Recovery = 87.27%			
8) Naphthalene-d8	2.979	136	627591	4000.000	ng/ml	0.00
Standard Area 1 = 731006			Recovery = 85.85%			
17) Acenaphthene-d10	3.957	164	358152	4000.000	ng/ml	0.00
Standard Area 1 = 431670			Recovery = 82.97%			
22) Phenanthrene-d10	4.804	188	717187	4000.000	ng/ml	0.00
Standard Area 1 = 877889			Recovery = 81.69%			
31) Chrysene-d12	6.387	240	688994	4000.000	ng/ml	-0.03
Standard Area 1 = 872898			Recovery = 78.93%			
36) Perylene-d12	7.676	264	665401	4000.000	ng/ml	-0.03
Standard Area 1 = 860499			Recovery = 77.33%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.744	112	34460	731.314	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 36.57%			
3) Phenol-d6	2.132	99	31294	540.497	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 27.02%			
7) Nitrobenzene-d5	2.597	82	29177	570.830	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 57.08%			
13) 2-Fluorobiphenyl	3.576	172	70866	560.230	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 56.02%			
21) 2,4,6-Tribromophenol	4.406	330	14403	1010.215	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 50.51%			
30) 4-Terphenyl-d14	5.723	244	92134	706.505	ng/ml	-0.02
Spiked Amount 2000.000	Range 30 - 130		Recovery = 35.33%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D. d		
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	0.000		0	N.D. d		
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.		
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.		
18) Acenaphthene	0.000		0	N.D. d		
20) Fluorene	0.000		0	N.D. d		
24) Hexachlorobenzene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\241219RVT\
Data File : 73538-05.D
Acq On : 19 Dec 2024 10:35 am
Operator : SV120:sbc
Sample : L2473538-05,32,,kmh
Misc : WG2011166,WG2010762,ical21668
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 19 15:02:24 2024
Quant Method : I:\8270sim\sv120\241219RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 19 07:31:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\241219RVT\ccv1219.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	4.696	266	15M3	7.701	ng/ml	
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	

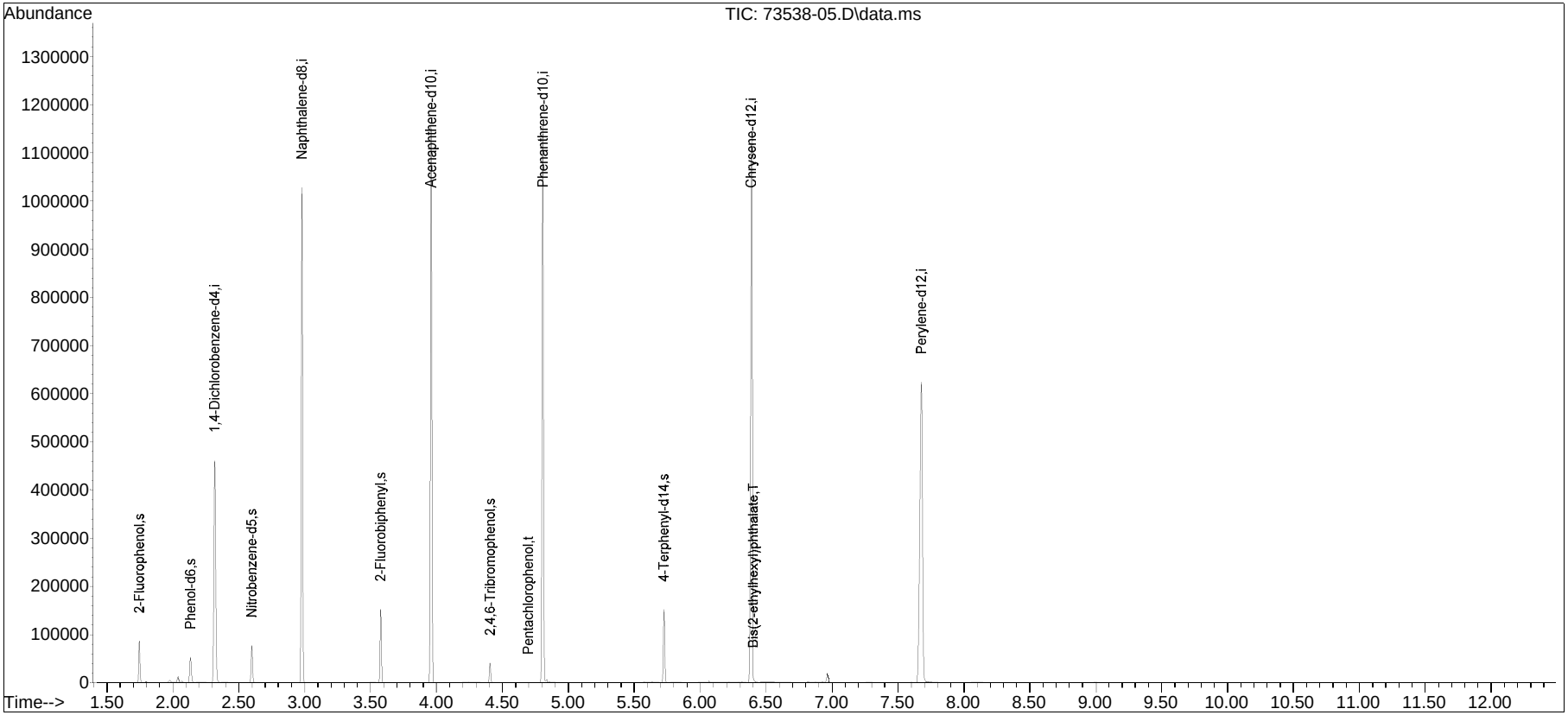
(#) = qualifier out of range (m) = manual integration (+) = signals summed

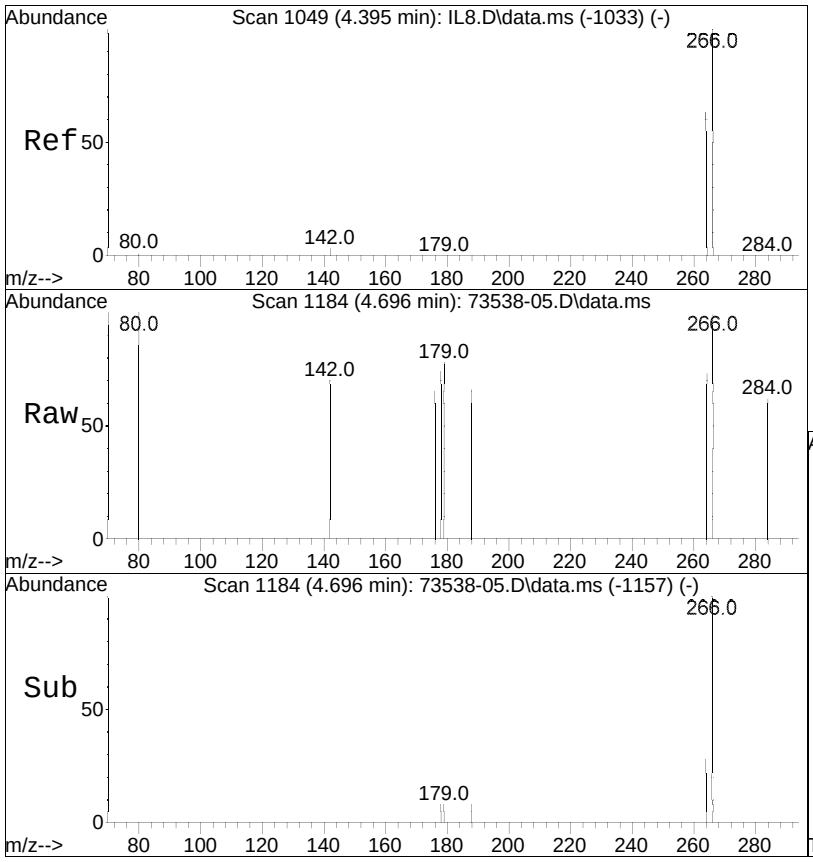
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\241219RVT\
Data File : 73538-05.D
Acq On : 19 Dec 2024 10:35 am
Operator : SV120:sbc
Sample : L2473538-05,32,,kmh
Misc : WG2011166,WG2010762,ical21668
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 19 15:02:24 2024
Quant Method : I:\8270sim\sv120\241219RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 19 07:31:52 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv1219.D•

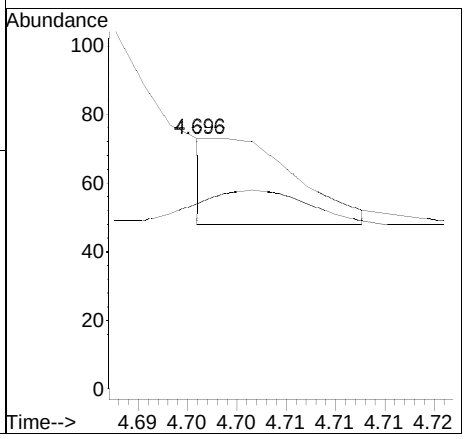




#25
Pentachlorophenol
Concen: 7.70 ng/ml M3
RT: 4.696 min Scan# 1184
Delta R.T. -0.004 min
Lab File: 73538-05.D
Acq: 19 Dec 2024 10:35 am

Tgt Ion:266 Resp: 15

Ion	Ratio	Lower	Upper
266	100		
264	73.3	50.3	75.5

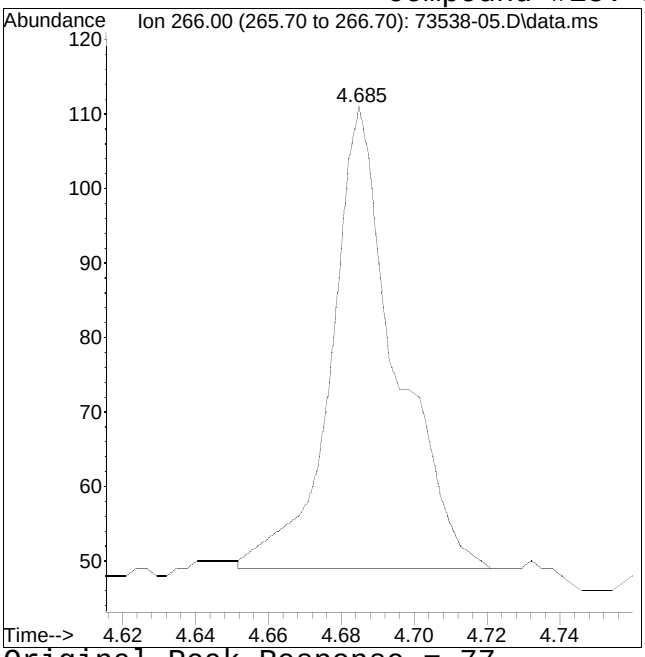


Manual Integration Report

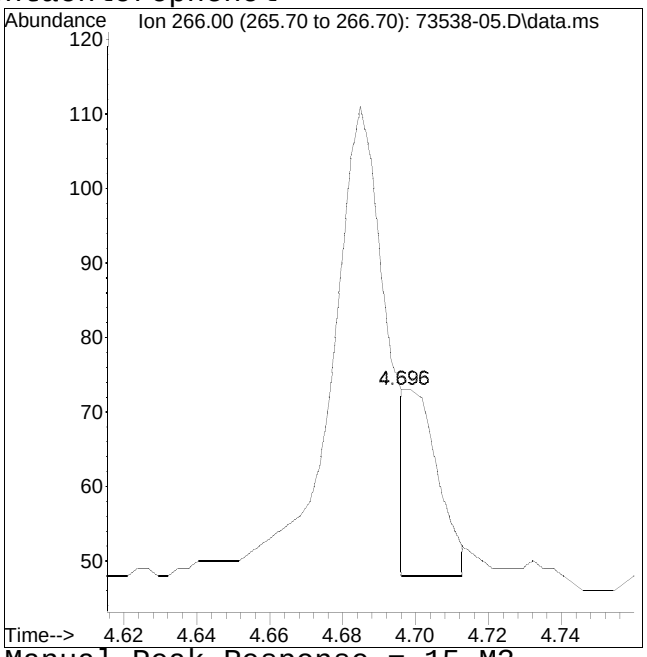
Data Path : I:\8270SIM\sv120\241219RVTQ
Data File : 73538-05.D
Date Inj'd : 12/19/2024 10:35 am
Sample : L2473538-05,32,,kmh

Method : SIM-RVT_241105_sv120.M
Operator : SV120:sbc
Instrument : SV120
Quant Date : 12/19/2024 10:47 am

Compound #25: Pentachlorophenol



Original Peak Response = 77



Manual Peak Response = 15 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.

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Ical Ref**	: ICAL21668
Calibration dates	: 11/05/24 07:30 11/05/24 09:57		

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.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	1.181	1.270	1.198	1.168	1.150	1.414	1.190	1.156	1.049	0.996	1.177	9.65
3)	s	Phenol-d6	1.421	1.476	1.368	1.383	1.366	1.703	1.420	1.437	1.475	1.418	1.447	6.78
4)	T	bis(2-Chloroethyl)ether				1.180	1.209	2.019	1.197	1.185	1.180	1.103	*Q	0.9949
5)	T	n-Nitrosodi-n-propylamine			0.854	0.813	0.816	1.027	0.852	0.871	0.891	0.856	0.873	7.74
6)	t	Hexachloroethane			0.519	0.505	0.501	0.629	0.518	0.518	0.510	0.489	0.524	8.39
7)	s	Nitrobenzene-d5		1.243	1.235	1.219	1.224	1.533	1.264	1.279	1.280	1.217	1.277	7.74
8)	i	Naphthalene-d8	ISTD											
9)	t	Naphthalene		1.154	1.028	0.974	0.957	1.173	0.960	0.947	0.931	0.876	1.000	10.10
10)	t	Hexachlorobutadiene		0.205	0.193	0.186	0.183	0.223	0.185	0.182	0.179	0.169	0.189	8.32
11)	t	2-Methylnaphthalene	0.742	0.741	0.698	0.667	0.660	0.818	0.683	0.665	0.652	0.615	0.694	8.43
12)	t	1-Methylnaphthalene	0.669	0.683	0.649	0.619	0.615	0.762	0.623	0.606	0.597	0.563	0.639	8.75
13)	s	2-Fluorobiphenyl	0.894	0.876	0.822	0.801	0.797	0.977	0.778	0.744	0.711	0.663	0.806	11.41
14)	t	2-Chloronaphthalene	0.738	0.750	0.700	0.668	0.667	0.819	0.662	0.644	0.636	0.607	0.689	9.21
15)	t	2,6-Dinitrotoluene					0.130	0.170	0.150	0.152	0.156	0.178	0.156	10.83
16)	t	Acenaphthylene	1.010	1.049	0.959	0.925	0.938	1.190	1.000	0.977	0.969	0.920	0.994	8.04
17)	i	Acenaphthene-d10	ISTD											
18)	t	Acenaphthene	1.347	1.308	1.174	1.193	1.153	1.415	1.141	1.136	1.136	1.070	1.207	9.18
19)	t	2,4-Dinitrotoluene					0.256	0.367	0.337	0.352	0.361	0.342	0.336	12.13
20)	t	Fluorene	1.402	1.403	1.274	1.250	1.256	1.565	1.273	1.266	1.229	1.146	1.306	9.07
21)	s	2,4,6-Tribromophenol		0.150	0.143	0.137	0.146	0.193	0.166	0.167	0.170	0.163	0.159	10.79
22)	i	Phenanthrene-d10	ISTD											
23)	T	4,6-Dinitro-o-cresol					0.068	0.099	0.102	0.111	0.123	0.121	*L	0.9983
24)	t	Hexachlorobenzene		0.234	0.216	0.207	0.203	0.251	0.206	0.202	0.198	0.185	0.211	9.43
25)	t	Pentachlorophenol				0.076	0.087	0.082	0.094	0.113	0.133	0.133	*Q	0.9965
26)	t	Phenanthrene	0.797	0.930	0.897	0.967	0.944	1.205	0.973	0.954	0.959	0.906	0.953	10.75
27)	t	Anthracene	1.028	1.011	0.975	0.933	0.932	1.179	0.975	0.972	0.964	0.894	0.986	7.91
28)	t	Fluoranthene	1.259	1.192	1.089	1.028	1.038	1.304	1.063	1.044	1.018	0.943	1.098	10.54
29)	t	Pyrene	1.281	1.229	1.126	1.073	1.071	1.358	1.099	1.079	1.035	0.970	1.132	10.60
30)	s	4-Terphenyl-d14		0.798	0.747	0.717	0.726	0.897	0.706	0.694	0.652	0.610	0.727	11.42
31)	i	Chrysene-d12	ISTD											
32)	t	Benzo[a]anthracene	1.294	0.717	0.357	0.229	0.142	0.152	0.126	0.121	0.126	0.120	*L	0.9993
33)	t	3,3'-Dichlorobenzidine					0.345	0.479	0.427	0.443	0.462	0.437	0.432	10.74
34)	t	Chrysene	0.685	0.988	0.996	1.070	1.064	1.415	1.128	1.138	1.086	1.020	1.059	16.93
35)	T	bis(2-Ethylhexyl)phthalate					0.540	0.722	0.670	0.719	0.806	0.789	0.708	13.59
36)	i	Perylene-d12	ISTD											

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2473538**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV120**	**Ical Ref**	**: ICAL21668**
Calibration dates	**: 11/05/24 07:30 11/05/24 09:57**		

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
37) t	Benzo[b]fluoranthene	1.252	1.299	1.184	1.114	1.162	1.380	1.210	1.168	1.203	1.165	1.214	6.42
38) t	Benzo[k]fluoranthene	1.121	1.055	1.039	1.002	0.950	1.351	1.152	1.129	1.123	0.990	1.091	10.44
39) t	Benzo[a]pyrene	0.971	0.979	0.914	0.884	0.897	1.184	1.039	1.022	1.055	0.995	0.994	8.96
40) t	Indeno[1,2,3-cd]pyrene	0.987	1.003	0.945	0.921	0.931	1.205	1.059	1.033	1.046	1.036	1.017	8.15
41) t	Dibenzo[a,h]anthracene	0.936	0.951	0.893	0.882	0.912	1.198	0.992	0.963	0.922	0.900	0.955	9.59
42) t	Benzo[g,h,i]perylene	0.998	0.996	0.941	0.929	0.931	1.196	1.007	0.990	0.959	0.924	0.987	8.11

Response Factor Report SV120

Method Path : I:\8270SIM\sv120\2024\241105RVTical\
Method File : SIM-RVT_241105_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Dec 02 11:35:31 2024
Response Via : Initial Calibration

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.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	1.181	1.270	1.198	1.168	1.150	1.414	1.190	1.156	1.049	0.996	1.177	9.65
3)	s	Phenol-d6	1.421	1.476	1.368	1.383	1.366	1.703	1.420	1.437	1.475	1.418	1.447	6.78
4)	T	bis(2-Chloroethyl)ether				1.180	1.209	2.019	1.197	1.185	1.180	1.103	*Q	0.9949
5)	T	n-Nitrosodi-n-propylamine			0.854	0.813	0.816	1.027	0.852	0.871	0.891	0.856	0.873	7.74
6)	t	Hexachloroethane			0.519	0.505	0.501	0.629	0.518	0.518	0.510	0.489	0.524	8.39
7)	s	Nitrobenzene-d5		1.243	1.235	1.219	1.224	1.533	1.264	1.279	1.280	1.217	1.277	7.74
8)	i	Naphthalene-d8	----------ISTD----------											
9)	t	Naphthalene		1.154	1.028	0.974	0.957	1.173	0.960	0.947	0.931	0.876	1.000	10.10
10)	t	Hexachlorobutadiene		0.205	0.193	0.186	0.183	0.223	0.185	0.182	0.179	0.169	0.189	8.32
11)	t	2-Methylnaphthalene	0.742	0.741	0.698	0.667	0.660	0.818	0.683	0.665	0.652	0.615	0.694	8.43
12)	t	1-Methylnaphthalene	0.669	0.683	0.649	0.619	0.615	0.762	0.623	0.606	0.597	0.563	0.639	8.75
13)	s	2-Fluorobiphenyl	0.894	0.876	0.822	0.801	0.797	0.977	0.778	0.744	0.711	0.663	0.806	11.41
14)	t	2-Chloronaphthalene	0.738	0.750	0.700	0.668	0.667	0.819	0.662	0.644	0.636	0.607	0.689	9.21
15)	t	2,6-Dinitrotoluene					0.130	0.170	0.150	0.152	0.156	0.178	0.156	10.83
16)	t	Acenaphthylene	1.010	1.049	0.959	0.925	0.938	1.190	1.000	0.977	0.969	0.920	0.994	8.04
17)	i	Acenaphthene-d10	----------ISTD----------											
18)	t	Acenaphthene	1.347	1.308	1.174	1.193	1.153	1.415	1.141	1.136	1.136	1.070	1.207	9.18
19)	t	2,4-Dinitrotoluene					0.256	0.367	0.337	0.352	0.361	0.342	0.336	12.13
20)	t	Fluorene	1.402	1.403	1.274	1.250	1.256	1.565	1.273	1.266	1.229	1.146	1.306	9.07
21)	s	2,4,6-Tribromophenol		0.150	0.143	0.137	0.146	0.193	0.166	0.167	0.170	0.163	0.159	10.79
22)	i	Phenanthrene-d10	----------ISTD----------											
23)	T	4,6-Dinitro-o-cresol					0.068	0.099	0.102	0.111	0.123	0.121	*L	0.9983
24)	t	Hexachlorobenzene		0.234	0.216	0.207	0.203	0.251	0.206	0.202	0.198	0.185	0.211	9.43
25)	t	Pentachlorophenol				0.076	0.087	0.082	0.094	0.113	0.133	0.133	*Q	0.9965
26)	t	Phenanthrene	0.797	0.930	0.897	0.967	0.944	1.205	0.973	0.954	0.959	0.906	0.953	10.75
27)	t	Anthracene	1.028	1.011	0.975	0.933	0.932	1.179	0.975	0.972	0.964	0.894	0.986	7.91
28)	t	Fluoranthene	1.259	1.192	1.089	1.028	1.038	1.304	1.063	1.044	1.018	0.943	1.098	10.54
29)	t	Pyrene	1.281	1.229	1.126	1.073	1.071	1.358	1.099	1.079	1.035	0.970	1.132	10.60
30)	s	4-Terphenyl-d14		0.798	0.747	0.717	0.726	0.897	0.706	0.694	0.652	0.610	0.727	11.42
31)	i	Chrysene-d12	----------ISTD----------											
32)	t	Benzo[a]anthracene	1.294	0.717	0.357	0.229	0.142	0.152	0.126	0.121	0.126	0.120	*L	0.9993
33)	t	3,3'-Dichlorobenzidine					0.345	0.479	0.427	0.443	0.462	0.437	0.432	10.74
34)	t	Chrysene	0.685	0.988	0.996	1.070	1.064	1.415	1.128	1.138	1.086	1.020	1.059	16.93
35)	T	bis(2-Ethylhexyl)phthalate					0.540	0.722	0.670	0.719	0.806	0.789	0.708	13.59
36)	i	Perylene-d12	----------ISTD----------											
37)	t	Benzo[b]fluora...	1.252	1.299	1.184	1.114	1.162	1.380	1.210	1.168	1.203	1.165	1.214	6.42
38)	t	Benzo[k]fluora...	1.121	1.055	1.039	1.002	0.950	1.351	1.152	1.129	1.123	0.990	1.091	10.44
39)	t	Benzo[a]pyrene	0.971	0.979	0.914	0.884	0.897	1.184	1.039	1.022	1.055	0.995	0.994	8.96
40)	t	Indeno[1,2,3-c...	0.987	1.003	0.945	0.921	0.931	1.205	1.059	1.033	1.046	1.036	1.017	8.15
41)	t	Dibenzo[a,h]anthracene	0.936	0.951	0.893	0.882	0.912	1.198	0.992	0.963	0.922	0.900	0.955	9.59
42)	t	Benzo[g,h,i]pe...	0.998	0.996	0.941	0.929	0.931	1.196	1.007	0.990	0.959	0.924	0.987	8.11

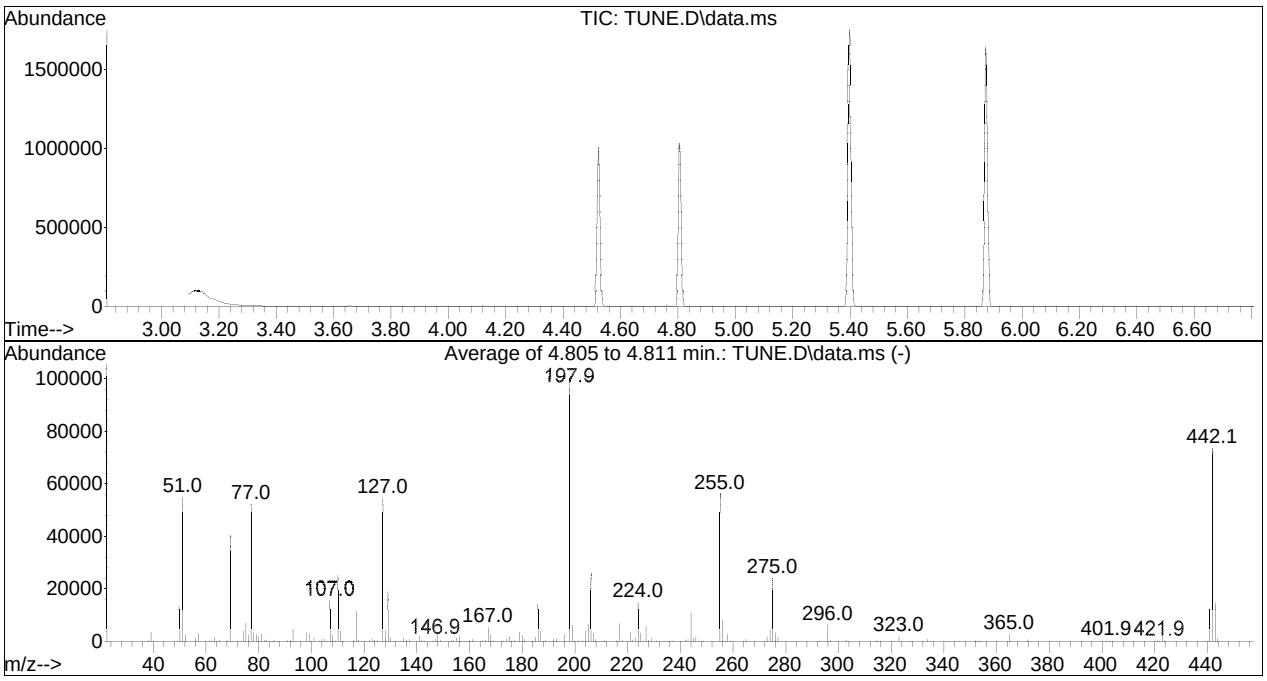
(#) = Out of Range

DFTPP

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : TUNE.D
Acq On : 05 Nov 2024 06:14 am
Operator : SV120:mrg
Sample : TUNE
Misc : WG1993471
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Nov 05 16:50:36 2024



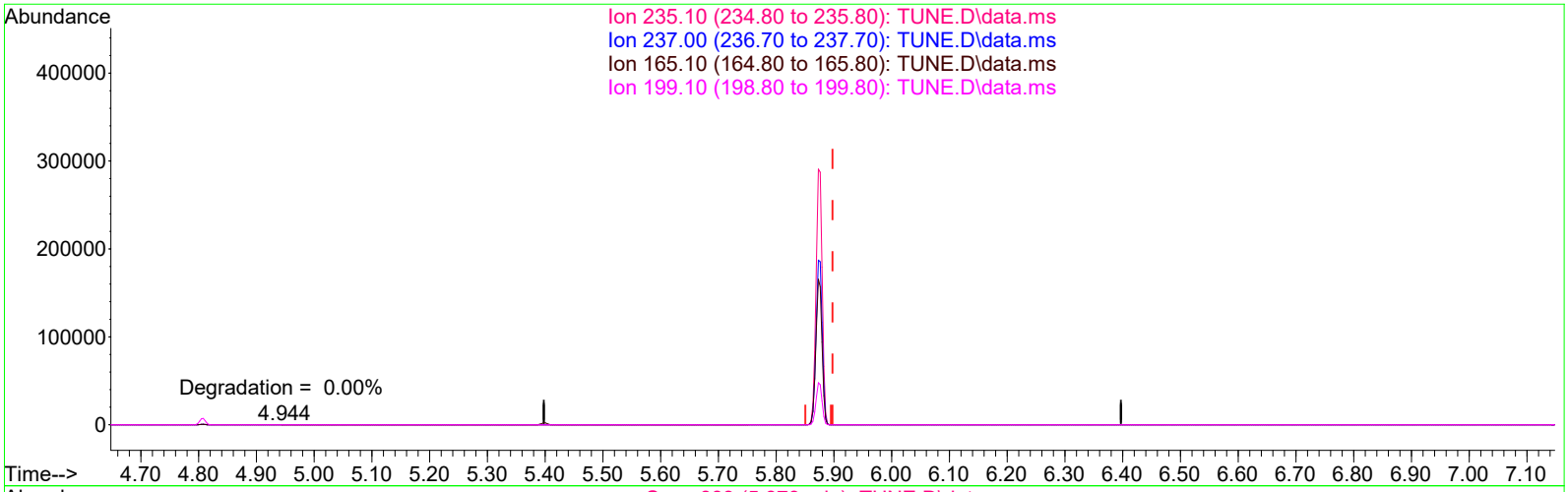
Spectrum Information: Average of 4.805 to 4.811 min.

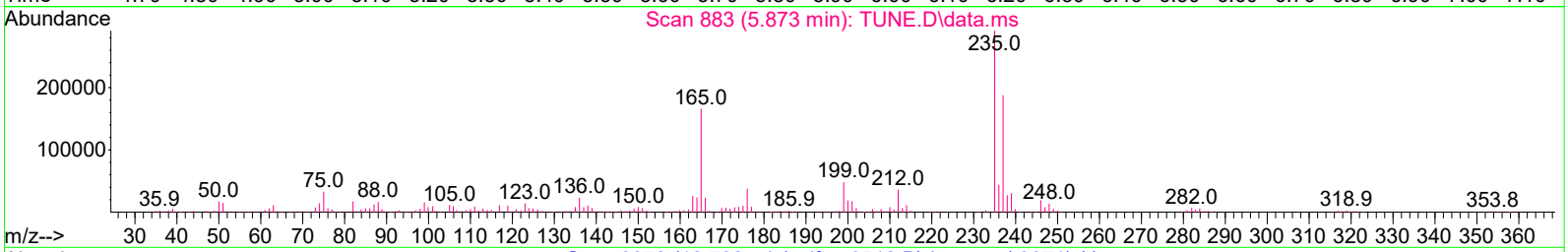
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	54.6	54901	PASS
68	69	0.00	2	1.7	694	PASS
69	69	100	100	100.0	40091	PASS
70	69	0.00	2	0.6	246	PASS
127	198	10	80	54.3	54555	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	100472	PASS
199	198	5	9	6.2	6264	PASS
275	198	10	60	24.2	24275	PASS
365	198	1	100	2.8	2770	PASS
441	442	0.01	24	16.6	12241	PASS
442	198	50	100	73.2	73557	PASS
443	442	15	24	20.0	14683	PASS

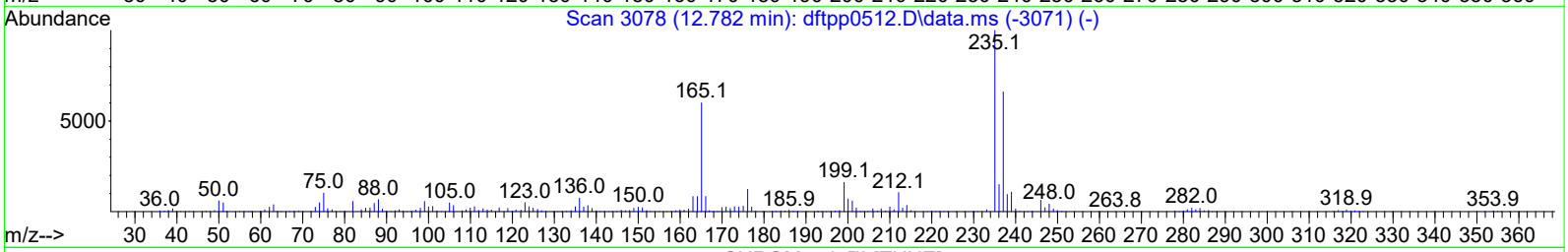
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\241105RVTical\
Data File : TUNE.D
Acq On : 05 Nov 2024 06:14 am
Operator : SV120:mrg
Sample : TUNE
Misc : WG1993471
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Nov 05 16:38:36 2024
Quant Method : I:\8270SIM\sv120\241105RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Nov 05 16:39:30 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







CHROMtools™ [TUNE]

(6) ddt (T)

5.873min (-0.025) 35.52

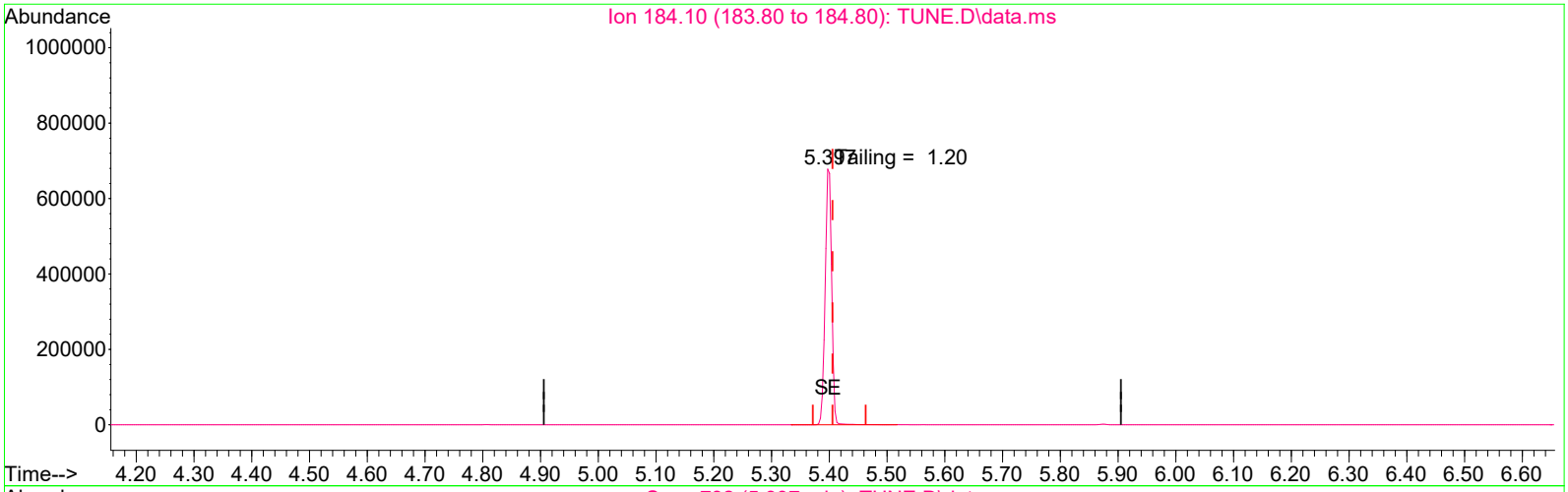
response 216520

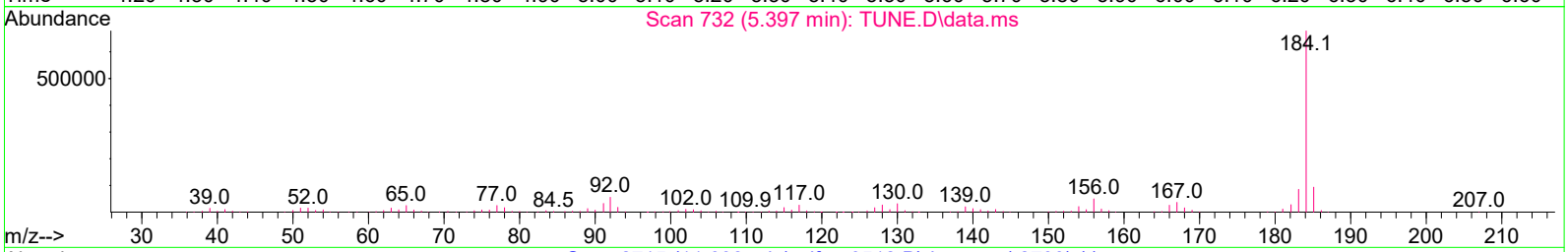
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	64.54
165.10	53.30	56.29
199.10	17.10	16.12

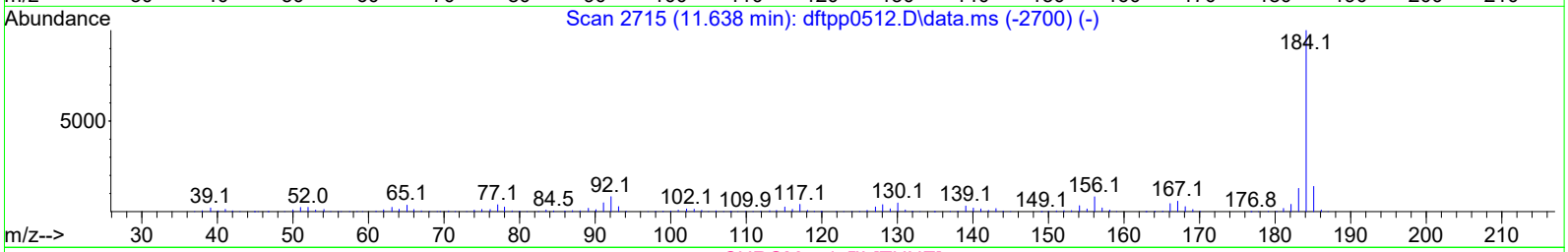
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\241105RVTical\
Data File : TUNE.D
Acq On : 05 Nov 2024 06:14 am
Operator : SV120:mrg
Sample : TUNE
Misc : WG1993471
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Nov 05 16:38:36 2024
Quant Method : I:\8270SIM\sv120\241105RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Nov 05 16:39:30 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







CHROMtools™ [TUNE]

(3) benzidine (T)

5.397min (-0.009) 51.81

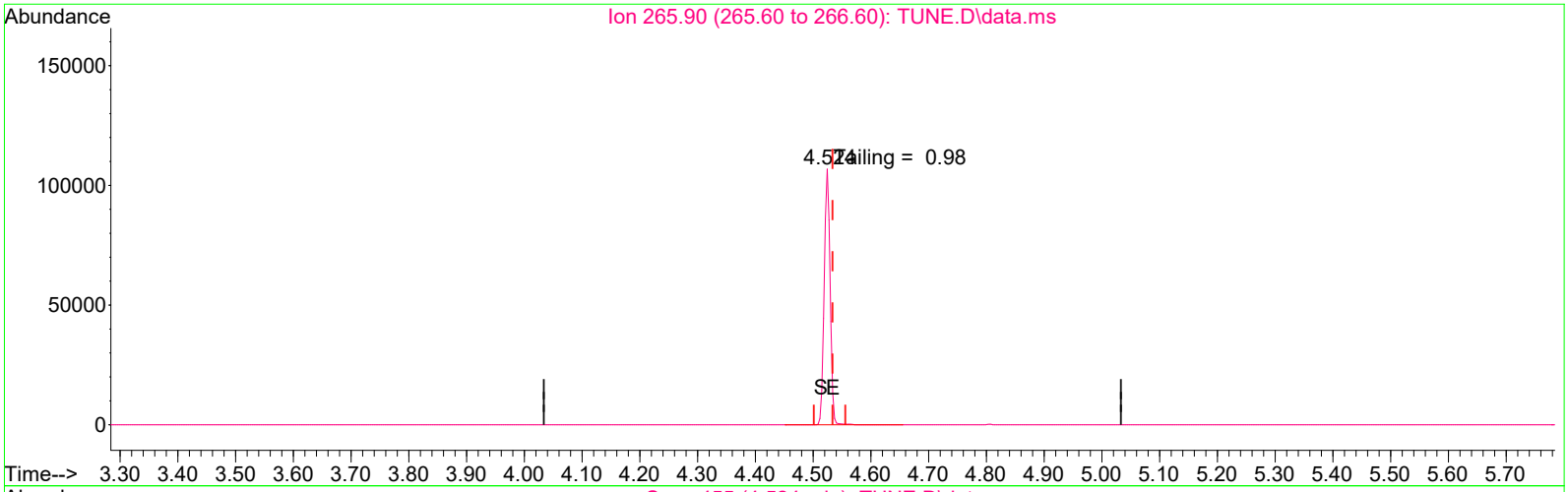
response 527412

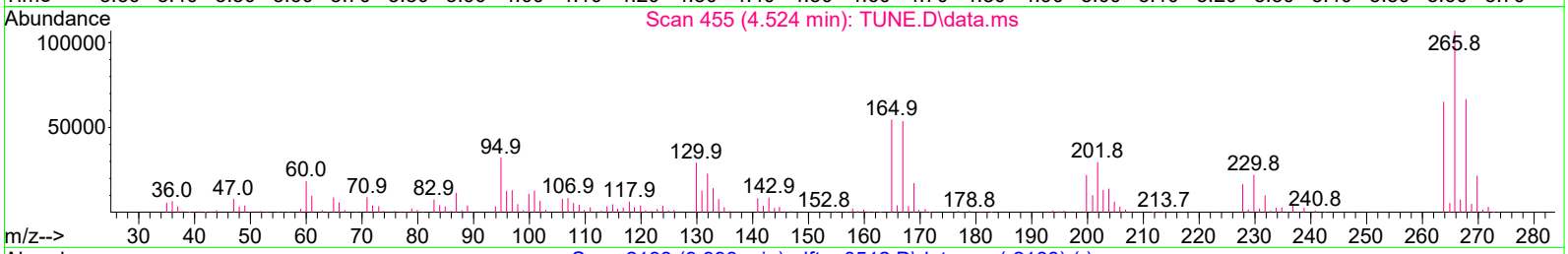
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

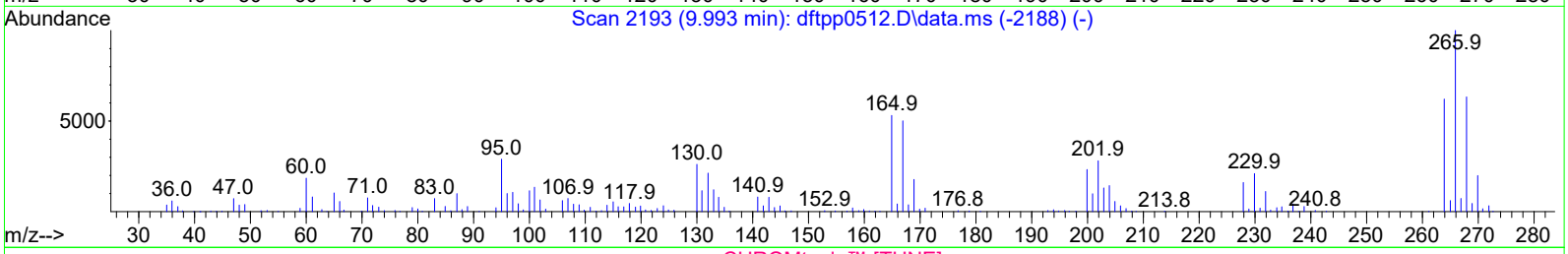
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\241105RVTical\
Data File : TUNE.D
Acq On : 05 Nov 2024 06:14 am
Operator : SV120:mrg
Sample : TUNE
Misc : WG1993471
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Nov 05 16:38:36 2024
Quant Method : I:\8270SIM\sv120\241105RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Nov 05 16:39:30 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







CHROMtools™ [TUNE]

(1) pentachlorophenol (T)

4.524min (-0.010) 36.28

response 76208

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:\8270SIM\sv120\2024\241105RVTical\
Data File : IL10.D
Acq On : 05 Nov 2024 07:30 am
Operator : SV120:mrg
Sample : IL10,32,,5000.0ng/mL lot# 10885
Misc : WG1993471
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 02 11:35:16 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.052	152	341120	4000.000	ng/ml	0.00
Standard Area 1 = 269340			Recovery = 126.65%			
8) Naphthalene-d8	2.695	136	1341754	4000.000	ng/ml	0.00
Standard Area 1 = 1055011			Recovery = 127.18%			
17) Acenaphthene-d10	3.663	164	790862	4000.000	ng/ml	0.00
Standard Area 1 = 611711			Recovery = 129.29%			
22) Phenanthrene-d10	4.498	188	1508245	4000.000	ng/ml	0.00
Standard Area 1 = 1165771			Recovery = 129.38%			
31) Chrysene-d12	6.025	240	1190628	4000.000	ng/ml	0.00
Standard Area 1 = 980774			Recovery = 121.40%			
36) Perylene-d12	7.081	264	1146722	4000.000	ng/ml	0.00
Standard Area 1 = 961303			Recovery = 119.29%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.511	112	424509	4228.460	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 211.42%#			
3) Phenol-d6	1.884	99	604740	4901.671	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 245.08%#			
7) Nitrobenzene-d5	2.326	82	518850	4763.774	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 476.38%#			
13) 2-Fluorobiphenyl	3.290	172	1112259	4112.803	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 411.28%#			
21) 2,4,6-Tribromophenol	4.108	330	160795	5107.439	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 255.37%#			
30) 4-Terphenyl-d14	5.415	244	1149918	4192.981	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 209.65%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.928	93	470424	5011.563	ng/ml	99
5) n-nitrosodi-n-propylamine	2.256	70	364927	4904.400	ng/ml	99
6) Hexachloroethane	2.296	117	208475	4668.232	ng/ml	100
9) Naphthalene	2.708	128	1469278	4380.543	ng/ml	99
10) Hexachlorobutadiene	2.779	225	283824	4465.859	ng/ml	100
11) 2-Methylnaphthalene	3.082	142	1031748	4430.774	ng/ml	98
12) 1-Methylnaphthalene	3.137	142	943476	4404.966	ng/ml	98
14) 2-Chloronaphthalene	3.351	162	1018713	4407.018	ng/ml	100
15) 2,6-Dinitrotoluene	3.557	165	299038	5715.380	ng/ml#	80
16) Acenaphthylene	3.583	152	1542363	4627.850	ng/ml	100
18) Acenaphthene	3.682	153	1057576	4430.288	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL10.D
Acq On : 05 Nov 2024 07:30 am
Operator : SV120:mrg
Sample : IL10,32,,5000.0ng/mL lot# 10885
Misc : WG1993471
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 02 11:35:16 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.782	165	338380	5091.155	ng/ml	97
20) Fluorene	3.970	166	1133351	4387.728	ng/ml	98
23) 4,6-Dinitro-o-cresol	4.013	198	228762	5038.967	ng/ml	98
24) Hexachlorobenzene	4.287	284	349380	4385.430	ng/ml	99
25) Pentachlorophenol	4.398	266	250952	4931.379	ng/ml	100
26) Phenanthrene	4.512	178	1708840	4754.447	ng/ml	99
27) Anthracene	4.541	178	1684708	4530.463	ng/ml	99
28) Fluoranthene	5.186	202	1777140	4292.915	ng/ml	99
29) Pyrene	5.315	202	1827805	4281.872	ng/ml	100
32) Benzo[a]anthracene	6.015	228	1786981	4923.842	ng/ml	99
33) 3,3'-Dichlorobenzidine	6.013	252	650897	5057.448	ng/ml	99
34) Chrysene	6.042	228	1518548	4817.616	ng/ml	97
35) Bis(2-ethylhexyl)phtha...	6.054	149	1174567	5574.857	ng/ml	99
37) Benzo[b]fluoranthene	6.755	252	1670157	4799.956	ng/ml	99
38) Benzo[k]fluoranthene	6.780	252	1418971	4536.310	ng/ml	98
39) Benzo[a]pyrene	7.027	252	1426727	5006.017	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.158	276	1485315	5096.701	ng/ml	99
41) Dibenzo[a,h]anthracene	8.195	278	1290764M6	4714.638	ng/ml	
42) Benzo[g,h,i]perylene	8.469	276	1324759	4680.809	ng/ml	100

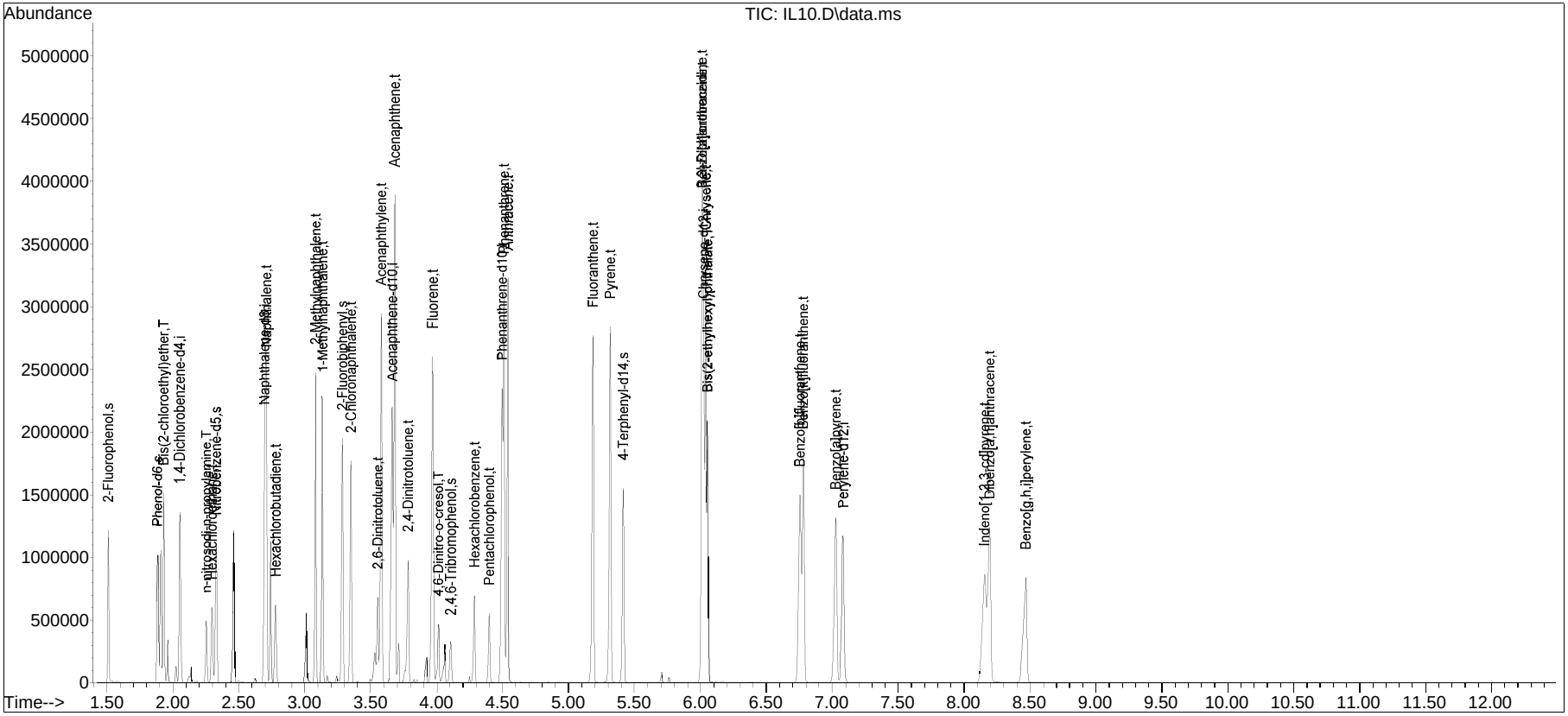
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL10.D
Acq On : 05 Nov 2024 07:30 am
Operator : SV120:mrg
Sample : IL10,32,,5000.0ng/mL lot# 10885
Misc : WG1993471
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 02 11:35:16 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

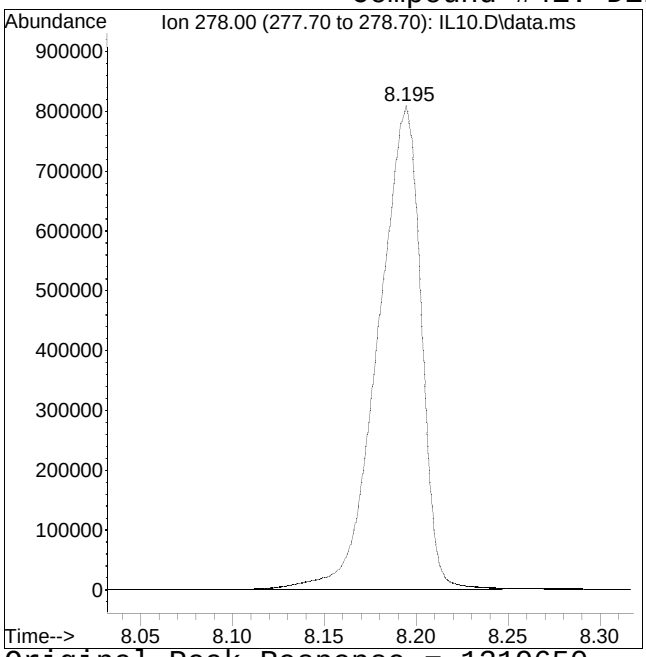
Sub List : Default - All compounds listed05RVTical\IL8.D•



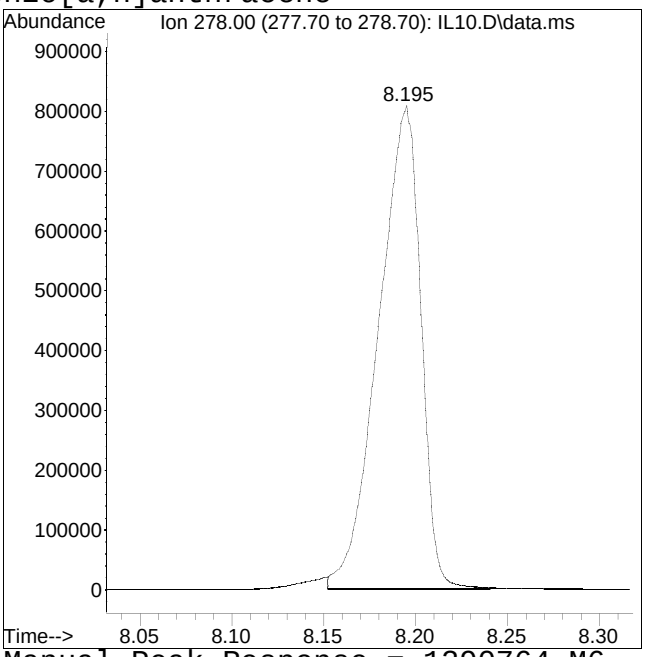
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL10.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 7:30 am Instrument : SV120
Sample : IL10,32,,5000.0ng/mL lot# Quant Date : 12/2/2024 11:36 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 1319650



Manual Peak Response = 1290764 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL9.D
Acq On : 05 Nov 2024 07:47 am
Operator : SV120:mrg
Sample : IL9,32,,2500.0ng/mL lot# 10901
Misc : WG1993471
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 02 11:36:16 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.055	152	375547	4000.000	ng/ml	0.00
Standard Area 1 = 269340			Recovery	= 139.43%		
8) Naphthalene-d8	2.696	136	1472470	4000.000	ng/ml	0.00
Standard Area 1 = 1055011			Recovery	= 139.57%		
17) Acenaphthene-d10	3.663	164	854571	4000.000	ng/ml	0.00
Standard Area 1 = 611711			Recovery	= 139.70%		
22) Phenanthrene-d10	4.498	188	1617772	4000.000	ng/ml	0.00
Standard Area 1 = 1165771			Recovery	= 138.77%		
31) Chrysene-d12	6.021	240	1256082	4000.000	ng/ml	0.00
Standard Area 1 = 980774			Recovery	= 128.07%		
36) Perylene-d12	7.076	264	1168827	4000.000	ng/ml	0.00
Standard Area 1 = 961303			Recovery	= 121.59%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.519	112	246169M6	2227.263	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 111.36%#		
3) Phenol-d6	1.884	99	346235	2549.114	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 127.46%#		
7) Nitrobenzene-d5	2.327	82	300399	2505.248	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 250.52%#		
13) 2-Fluorobiphenyl	3.287	172	654219	2204.355	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 220.44%#		
21) 2,4,6-Tribromophenol	4.104	330	90546	2661.659	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 133.08%#		
30) 4-Terphenyl-d14	5.410	244	659362	2241.478	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery	= 112.07%		
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.931	93	276959	2498.793	ng/ml	100
5) n-nitrosodi-n-propylamine	2.254	70	209213	2553.944	ng/ml	99
6) Hexachloroethane	2.300	117	119643	2433.485	ng/ml	100
9) Naphthalene	2.705	128	856706	2327.460	ng/ml	100
10) Hexachlorobutadiene	2.779	225	164702	2361.463	ng/ml	100
11) 2-Methylnaphthalene	3.080	142	600424	2349.581	ng/ml	99
12) 1-Methylnaphthalene	3.135	142	548998	2335.656	ng/ml	99
14) 2-Chloronaphthalene	3.348	162	585059	2306.318	ng/ml	99
15) 2,6-Dinitrotoluene	3.552	165	143159	2493.239	ng/ml	99
16) Acenaphthylene	3.580	152	891422	2437.263	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL9.D
Acq On : 05 Nov 2024 07:47 am
Operator : SV120:mrg
Sample : IL9,32,,2500.0ng/mL lot# 10901
Misc : WG1993471
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 02 11:36:16 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18) Acenaphthene	3.680	153	606781	2352.366	ng/ml	100
19) 2,4-Dinitrotoluene	3.777	165	193072	2688.336	ng/ml	98
20) Fluorene	3.969	166	656403	2351.789	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.008	198	124870	2574.954	ng/ml	99
24) Hexachlorobenzene	4.284	284	199978	2340.189	ng/ml	100
25) Pentachlorophenol	4.396	266	134797	2681.512	ng/ml	100
26) Phenanthrene	4.510	178	969517	2514.830	ng/ml	100
27) Anthracene	4.538	178	974860	2444.076	ng/ml	99
28) Fluoranthene	5.185	202	1029736	2319.056	ng/ml	100
29) Pyrene	5.311	202	1046471	2285.523	ng/ml	100
32) Benzo[a]anthracene	6.014	228	986802	2572.728	ng/ml	99
33) 3,3'-Dichlorobenzidine	6.009	252	362996	2673.493	ng/ml	100
34) Chrysene	6.036	228	852188	2562.697	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	6.052	149	633099	2848.300	ng/ml	99
37) Benzo[b]fluoranthene	6.750	252	879054	2478.583	ng/ml	99
38) Benzo[k]fluoranthene	6.771	252	820638	2573.883	ng/ml	99
39) Benzo[a]pyrene	7.018	252	770547	2652.519	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.147	276	764125	2572.426	ng/ml	99
41) Dibenzo[a,h]anthracene	8.178	278	673807M6	2414.599	ng/ml	
42) Benzo[g,h,i]perylene	8.452	276	700594	2428.613	ng/ml	100

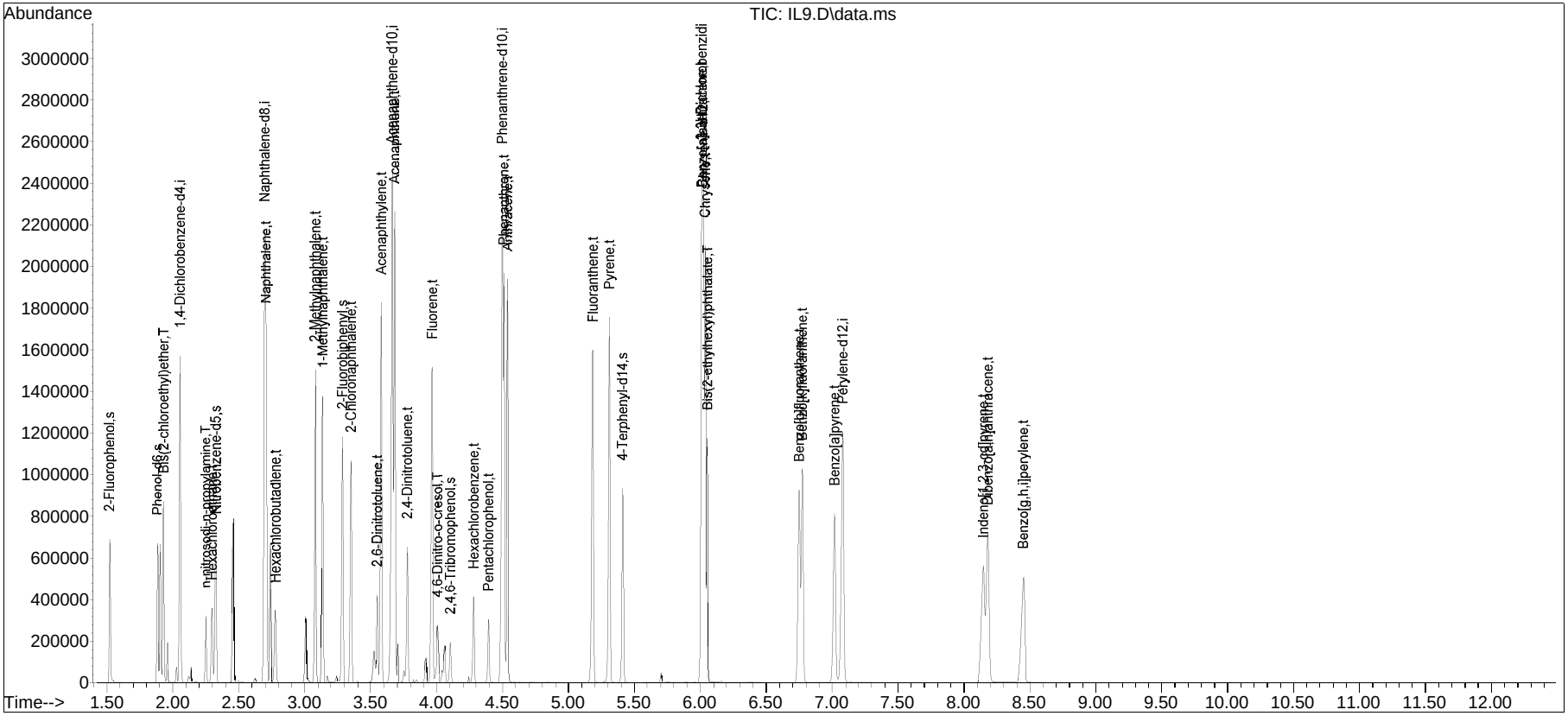
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL9.D
Acq On : 05 Nov 2024 07:47 am
Operator : SV120:mrg
Sample : IL9,32,,2500.0ng/mL lot# 10901
Misc : WG1993471
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 02 11:36:16 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

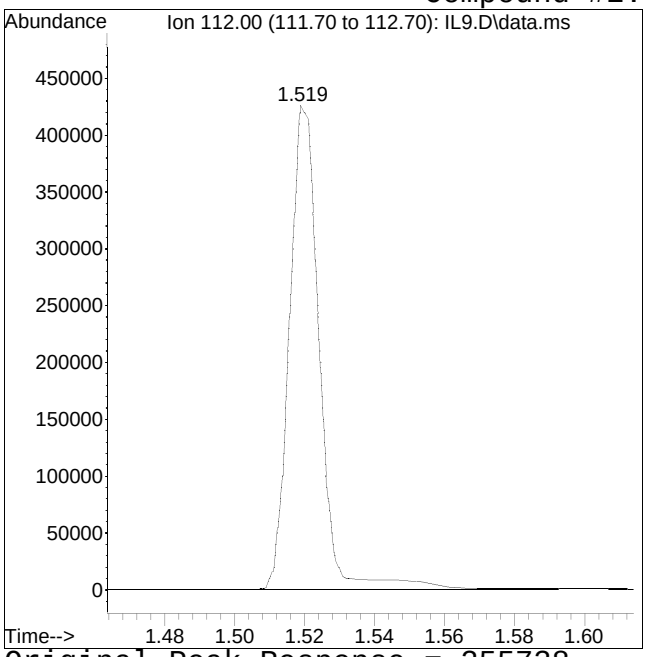
Sub List : Default - All compounds listed05RVTical\IL8.D•



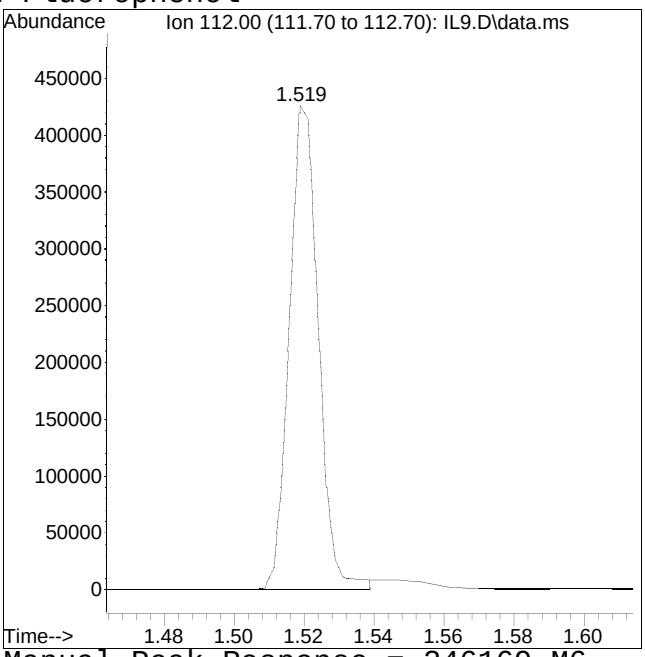
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL9.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 7:47 am Instrument : SV120
Sample : IL9,32,,2500.0ng/mL lot# 1Quant Date : 12/2/2024 11:37 am

Compound #2: 2-Fluorophenol



Original Peak Response = 255738



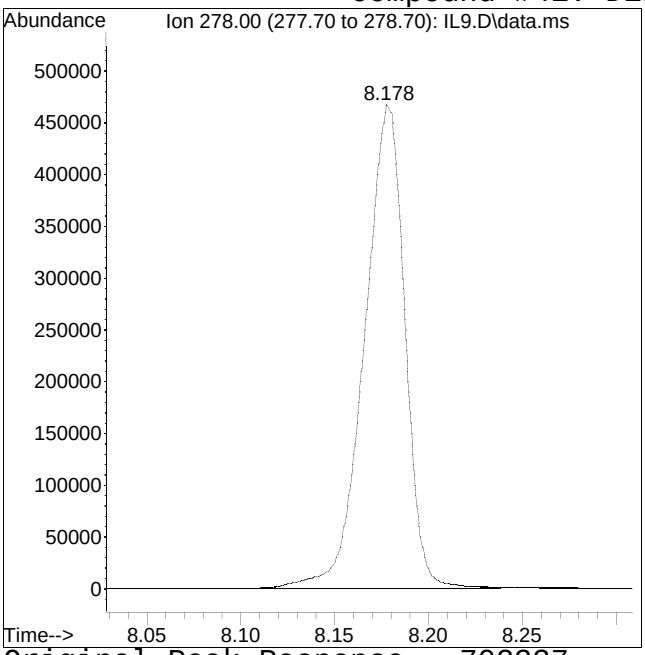
Manual Peak Response = 246169 M6

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

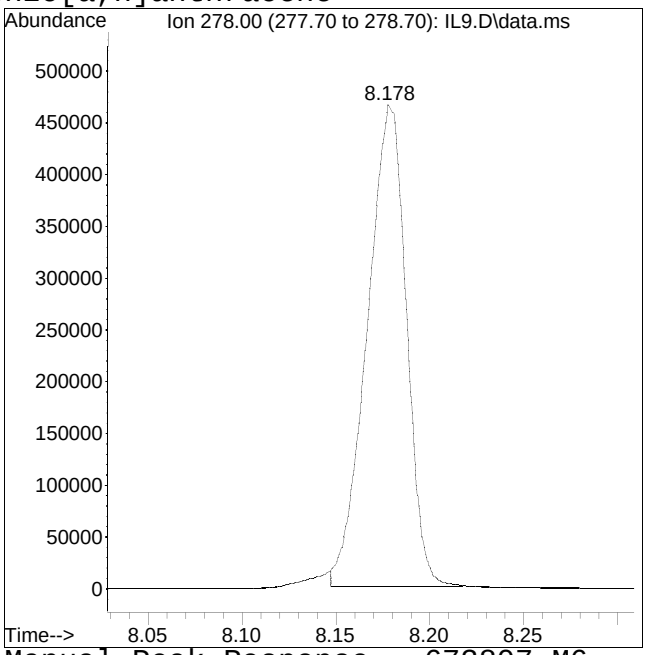
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL9.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 7:47 am Instrument : SV120
Sample : IL9,32,,2500.0ng/mL lot# 1Quant Date : 12/2/2024 11:37 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 702337



Manual Peak Response = 673807 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL8.D
Acq On : 05 Nov 2024 08:03 am
Operator : SV120:mrg
Sample : IL8,32,,1000.0ng/mL lot# 10888
Misc : WG1993471
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 02 11:36:10 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.052	152	269340	4000.000	ng/ml	0.00
Standard Area 1 = 269340			Recovery = 100.00%			
8) Naphthalene-d8	2.695	136	1055011	4000.000	ng/ml	0.00
Standard Area 1 = 1055011			Recovery = 100.00%			
17) Acenaphthene-d10	3.660	164	611711	4000.000	ng/ml	0.00
Standard Area 1 = 611711			Recovery = 100.00%			
22) Phenanthrene-d10	4.495	188	1165771	4000.000	ng/ml	0.00
Standard Area 1 = 1165771			Recovery = 100.00%			
31) Chrysene-d12	6.016	240	980774	4000.000	ng/ml	0.00
Standard Area 1 = 980774			Recovery = 100.00%			
36) Perylene-d12	7.073	264	961303	4000.000	ng/ml	0.00
Standard Area 1 = 961303			Recovery = 100.00%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.504	112	77818	981.707	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 49.09%			
3) Phenol-d6	1.877	99	96758	993.273	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 49.66%			
7) Nitrobenzene-d5	2.323	82	86146	1001.730	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 100.17%			
13) 2-Fluorobiphenyl	3.287	172	196270	923.000	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 92.30%			
21) 2,4,6-Tribromophenol	4.100	330	25476	1046.204	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 52.31%			
30) 4-Terphenyl-d14	5.411	244	202243	954.087	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 47.70%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.924	93	79799	962.373	ng/ml	100
5) n-nitrosodi-n-propylamine	2.250	70	58624	997.842	ng/ml	100
6) Hexachloroethane	2.296	117	34869	988.882	ng/ml	100
9) Naphthalene	2.705	128	249684	946.740	ng/ml	100
10) Hexachlorobutadiene	2.776	225	48067	961.875	ng/ml	100
11) 2-Methylnaphthalene	3.080	142	175282	957.325	ng/ml	100
12) 1-Methylnaphthalene	3.135	142	159811	948.930	ng/ml	100
14) 2-Chloronaphthalene	3.348	162	169913	934.836	ng/ml	100
15) 2,6-Dinitrotoluene	3.549	165	40107	974.888	ng/ml	100
16) Acenaphthylene	3.577	152	257571	982.891	ng/ml	100
18) Acenaphthene	3.677	153	173798	941.282	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL8.D
Acq On : 05 Nov 2024 08:03 am
Operator : SV120:mrg
Sample : IL8,32,,1000.0ng/mL lot# 10888
Misc : WG1993471
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 02 11:36:10 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.774	165	53871	1047.903	ng/ml	100
20) Fluorene	3.966	166	193639	969.220	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.001	198	32247	936.701	ng/ml	100
24) Hexachlorobenzene	4.281	284	58783	954.607	ng/ml	100
25) Pentachlorophenol	4.395	266	33017	978.234	ng/ml	100
26) Phenanthrene	4.507	178	278182	1001.351	ng/ml	100
27) Anthracene	4.535	178	283176	985.219	ng/ml	100
28) Fluoranthene	5.182	202	304329	951.114	ng/ml	100
29) Pyrene	5.308	202	314599	953.498	ng/ml	100
32) Benzo[a]anthracene	6.009	228	295783	981.645	ng/ml	100
33) 3,3'-Dichlorobenzidine	6.002	252	108700	1025.312	ng/ml	100
34) Chrysene	6.031	228	278990	1074.483	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.050	149	176261	1015.592	ng/ml	100
37) Benzo[b]fluoranthene	6.744	252	280583	961.920	ng/ml	100
38) Benzo[k]fluoranthene	6.765	252	271213	1034.279	ng/ml	100
39) Benzo[a]pyrene	7.009	252	245722	1028.474	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.132	276	248243	1016.121	ng/ml	100
41) Dibenzo[a,h]anthracene	8.168	278	231405M6	1008.259	ng/ml	
42) Benzo[g,h,i]perylene	8.433	276	238001	1003.138	ng/ml	100

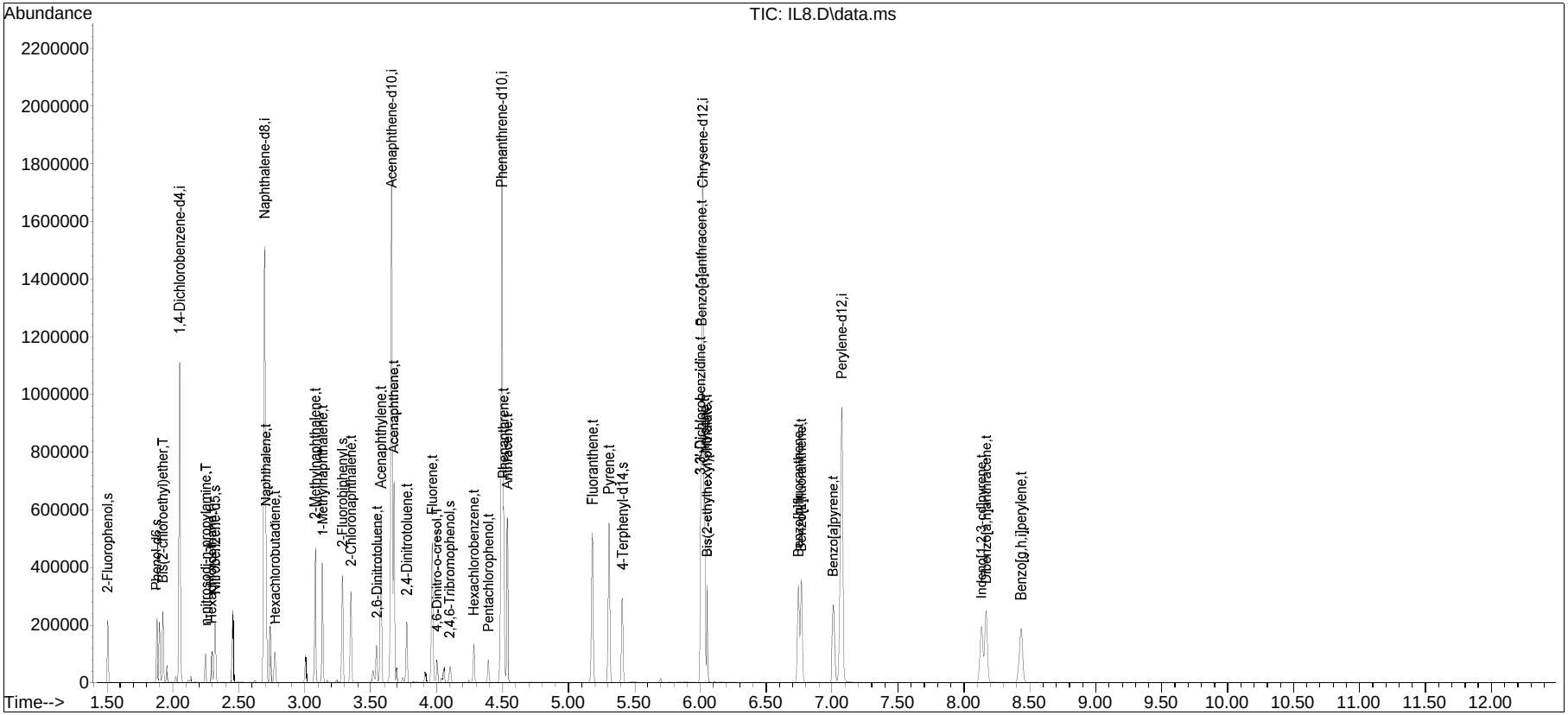
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL8.D
Acq On : 05 Nov 2024 08:03 am
Operator : SV120:mrg
Sample : IL8,32,,1000.0ng/mL lot# 10888
Misc : WG1993471
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 02 11:36:10 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

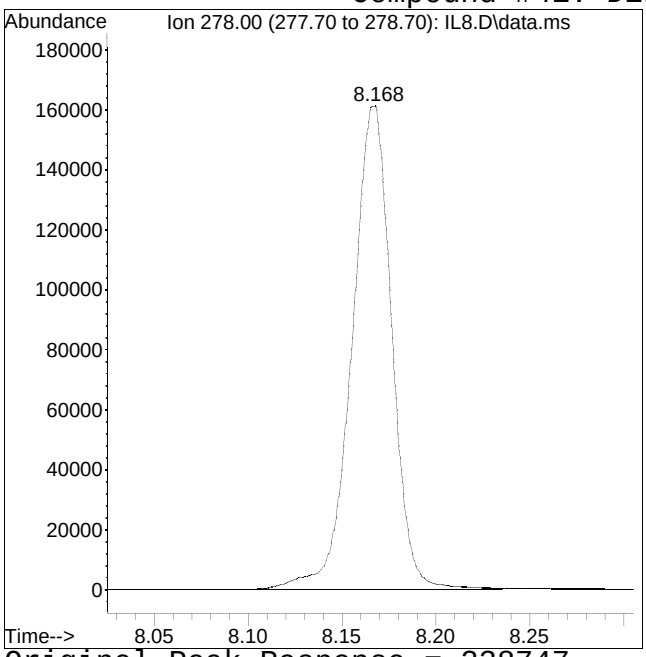
Sub List : Default - All compounds listed05RVTical\IL8.D•



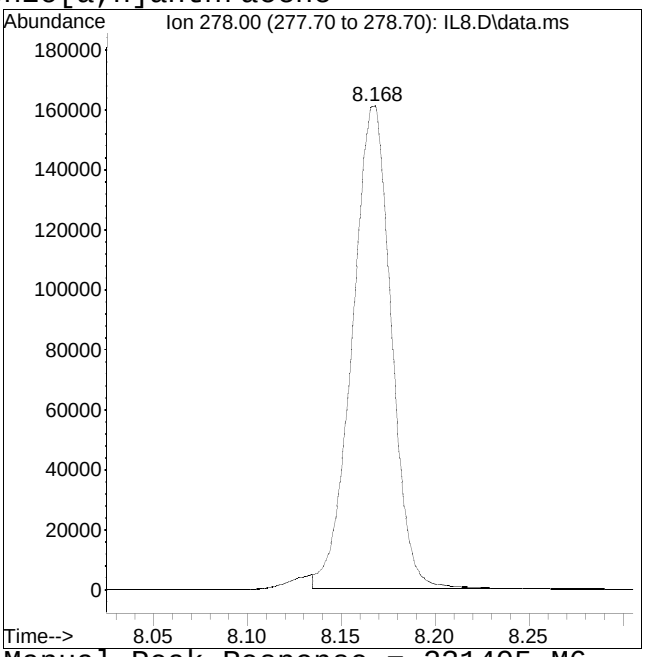
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL8.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 8:03 am Instrument : SV120
Sample : IL8,32,,1000.0ng/mL lot# 1Quant Date : 12/2/2024 11:37 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 238747



Manual Peak Response = 231405 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL7.D
Acq On : 05 Nov 2024 08:19 am
Operator : SV120:mrg
Sample : IL7,32,,500.0ng/mL lot# 10889
Misc : WG1993471
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 02 11:36:06 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.050	152	269306	4000.000	ng/ml	0.00
Standard Area 1 = 269340			Recovery = 99.99%			
8) Naphthalene-d8	2.692	136	1036968	4000.000	ng/ml	0.00
Standard Area 1 = 1055011			Recovery = 98.29%			
17) Acenaphthene-d10	3.659	164	611621	4000.000	ng/ml	0.00
Standard Area 1 = 611711			Recovery = 99.99%			
22) Phenanthrene-d10	4.493	188	1162862	4000.000	ng/ml	0.00
Standard Area 1 = 1165771			Recovery = 99.75%			
31) Chrysene-d12	6.016	240	972352	4000.000	ng/ml	0.00
Standard Area 1 = 980774			Recovery = 99.14%			
36) Perylene-d12	7.073	264	935019	4000.000	ng/ml	0.00
Standard Area 1 = 961303			Recovery = 97.27%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.506	112	40075	505.627	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 25.28%			
3) Phenol-d6	1.878	99	47785	490.601	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 24.53%			
7) Nitrobenzene-d5	2.323	82	42567	495.044	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 49.50%			
13) 2-Fluorobiphenyl	3.284	172	100815	482.353	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 48.24%			
21) 2,4,6-Tribromophenol	4.100	330	12687	521.084	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 26.05%			
30) 4-Terphenyl-d14	5.410	244	102580	485.135	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 24.26%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.925	93	40304	478.567	ng/ml	99
5) n-nitrosodi-n-propylamine	2.247	70	28674	488.123	ng/ml	100
6) Hexachloroethane	2.297	117	17421	494.120	ng/ml	100
9) Naphthalene	2.702	128	124425	479.998	ng/ml	100
10) Hexachlorobutadiene	2.776	225	24037	489.377	ng/ml	100
11) 2-Methylnaphthalene	3.080	142	88469	491.592	ng/ml	100
12) 1-Methylnaphthalene	3.132	142	80740	487.762	ng/ml	99
14) 2-Chloronaphthalene	3.345	162	85754	480.015	ng/ml	100
15) 2,6-Dinitrotoluene	3.547	165	19400	479.764	ng/ml	98
16) Acenaphthylene	3.575	152	129616	503.221	ng/ml	100
18) Acenaphthene	3.675	153	87238	472.546	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL7.D
Acq On : 05 Nov 2024 08:19 am
Operator : SV120:mrg
Sample : IL7,32,,500.0ng/mL lot# 10889
Misc : WG1993471
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 02 11:36:06 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.773	165	25788	501.704	ng/ml	97
20) Fluorene	3.962	166	97290	487.037	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.001	198	14756	441.432	ng/ml	99
24) Hexachlorobenzene	4.279	284	29908	486.906	ng/ml	100
25) Pentachlorophenol	4.393	266	13733	421.222	ng/ml	99
26) Phenanthrene	4.505	178	141398	510.253	ng/ml	99
27) Anthracene	4.533	178	141714	494.282	ng/ml	100
28) Fluoranthene	5.181	202	154479	483.998	ng/ml	99
29) Pyrene	5.308	202	159784	485.491	ng/ml	100
32) Benzo[a]anthracene	6.009	228	153737	510.034	ng/ml	99
33) 3,3'-Dichlorobenzidine	6.002	252	51932	494.091	ng/ml#	99
34) Chrysene	6.031	228	137137	532.735	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.050	149	81433	473.270	ng/ml	100
37) Benzo[b]fluoranthene	6.743	252	141382	498.324	ng/ml	100
38) Benzo[k]fluoranthene	6.765	252	134609	527.766	ng/ml	100
39) Benzo[a]pyrene	7.009	252	121410	522.449	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.131	276	123778	520.897	ng/ml	99
41) Dibenzo[a,h]anthracene	8.165	278	115896M6	519.168	ng/ml	
42) Benzo[g,h,i]perylene	8.430	276	117709	510.072	ng/ml	100

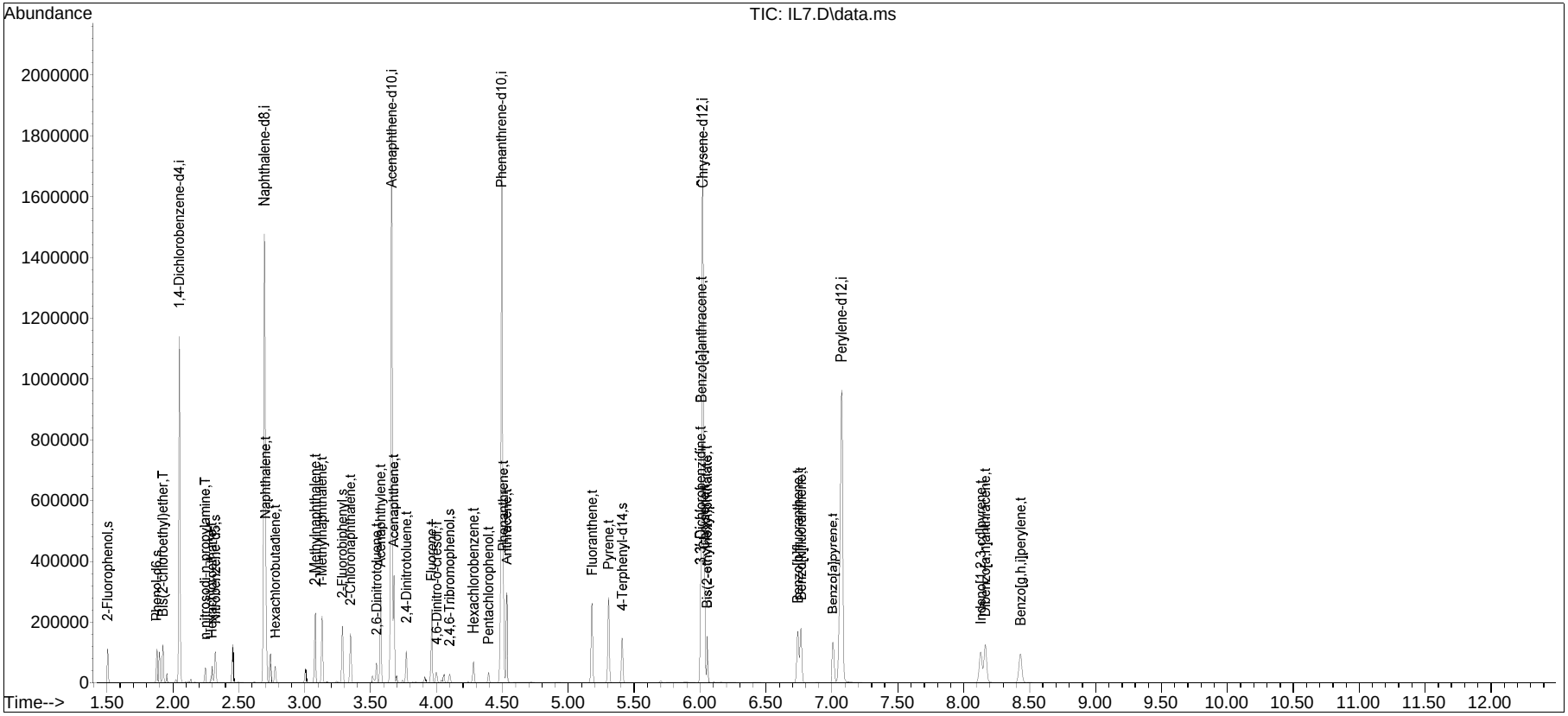
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL7.D
Acq On : 05 Nov 2024 08:19 am
Operator : SV120:mrg
Sample : IL7,32,,500.0ng/mL lot# 10889
Misc : WG1993471
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 02 11:36:06 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

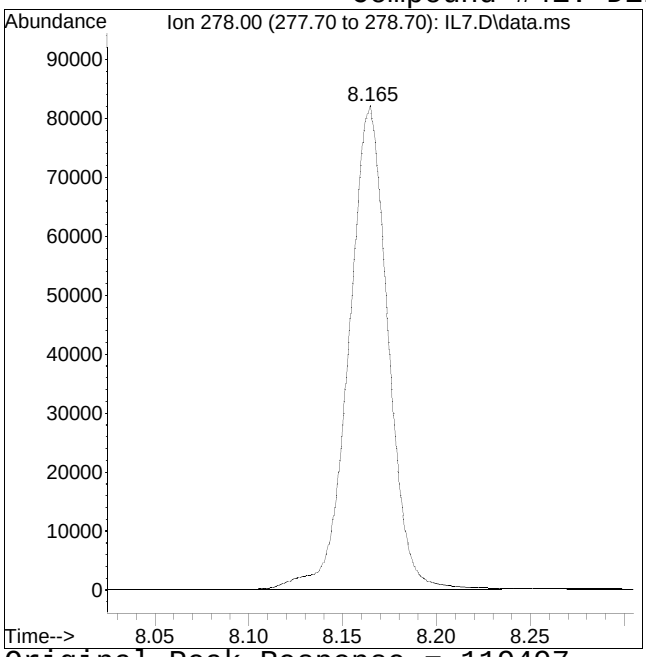
Sub List : Default - All compounds listed05RVTical\IL8.D•



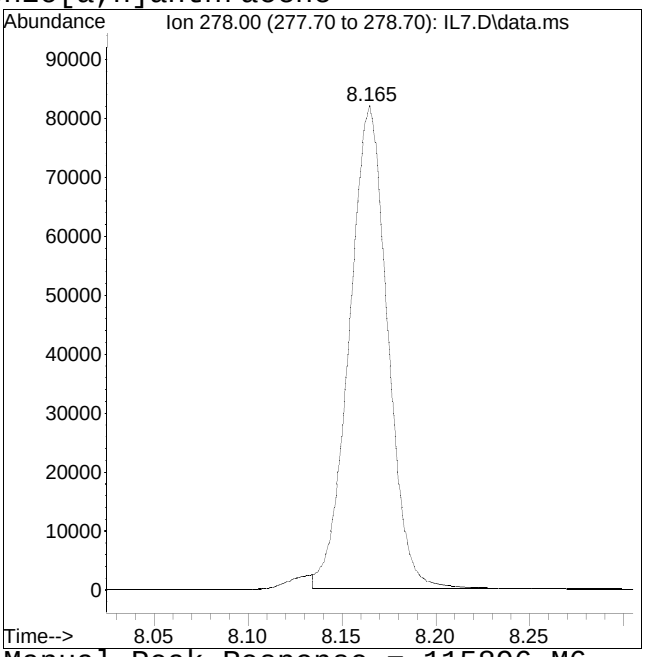
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL7.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 8:19 am Instrument : SV120
Sample : IL7,32,,500.0ng/mL lot# 10Quant Date : 12/2/2024 11:37 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 119497



Manual Peak Response = 115896 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL6.D
Acq On : 05 Nov 2024 08:36 am
Operator : SV120:mrg
Sample : IL6,32,,100.0ng/mL lot# 10899
Misc : WG1993471
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 02 11:35:45 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.049	152	224921	4000.000	ng/ml	0.00
Standard Area 1 = 269340			Recovery = 83.51%			
8) Naphthalene-d8	2.692	136	882674	4000.000	ng/ml	0.00
Standard Area 1 = 1055011			Recovery = 83.66%			
17) Acenaphthene-d10	3.658	164	526331	4000.000	ng/ml	0.00
Standard Area 1 = 611711			Recovery = 86.04%			
22) Phenanthrene-d10	4.492	188	1040055	4000.000	ng/ml	0.00
Standard Area 1 = 1165771			Recovery = 89.22%			
31) Chrysene-d12	6.016	240	955833	4000.000	ng/ml	0.00
Standard Area 1 = 980774			Recovery = 97.46%			
36) Perylene-d12	7.071	264	945247	4000.000	ng/ml	0.00
Standard Area 1 = 961303			Recovery = 98.33%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.496	112	7953	120.144	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 6.01%#			
3) Phenol-d6	1.875	99	9578	117.741	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 5.89%#			
7) Nitrobenzene-d5	2.323	82	8618	120.003	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 12.00%#			
13) 2-Fluorobiphenyl	3.287	172	21551	121.136	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 12.11%#			
21) 2,4,6-Tribromophenol	4.100	330	2535	120.990	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 6.05%#			
30) 4-Terphenyl-d14	5.411	244	23313	123.274	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 6.16%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.924	93	11354	157.989	ng/ml#	75
5) n-nitrosodi-n-propylamine	2.246	70	5774	117.688	ng/ml	99
6) Hexachloroethane	2.296	117	3539	120.187	ng/ml	99
9) Naphthalene	2.701	128	25879	117.285	ng/ml	100
10) Hexachlorobutadiene	2.776	225	4914	117.534	ng/ml	99
11) 2-Methylnaphthalene	3.080	142	18059	117.889	ng/ml	99
12) 1-Methylnaphthalene	3.131	142	16817	119.353	ng/ml	99
14) 2-Chloronaphthalene	3.345	162	18066	118.803	ng/ml	100
15) 2,6-Dinitrotoluene	3.546	165	3756	109.123	ng/ml	92
16) Acenaphthylene	3.577	152	26259	119.769	ng/ml	100
18) Acenaphthene	3.674	153	18621	117.210	ng/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL6.D
Acq On : 05 Nov 2024 08:36 am
Operator : SV120:mrg
Sample : IL6,32,,100.0ng/mL lot# 10899
Misc : WG1993471
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 02 11:35:45 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.772	165	4835	109.307	ng/ml	90
20) Fluorene	3.962	166	20594	119.800	ng/ml	98
23) 4,6-Dinitro-o-cresol	4.001	198	2580	103.733	ng/ml	96
24) Hexachlorobenzene	4.279	284	6518	118.644	ng/ml	99
25) Pentachlorophenol	4.393	266	2141	80.192	ng/ml	100
26) Phenanthrene	4.504	178	31343	126.460	ng/ml	95
27) Anthracene	4.533	178	30650	119.526	ng/ml	100
28) Fluoranthene	5.182	202	33908	118.781	ng/ml	100
29) Pyrene	5.308	202	35315	119.972	ng/ml	100
32) Benzo[a]anthracene	6.007	228	36408	115.522	ng/ml	100
33) 3,3'-Dichlorobenzidine	6.002	252	11436	110.685	ng/ml	99
34) Chrysene	6.028	228	33809	133.607	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.050	149	17264	102.068	ng/ml	99
37) Benzo[b]fluoranthene	6.741	252	32611	113.699	ng/ml	99
38) Benzo[k]fluoranthene	6.763	252	31925	123.815	ng/ml	100
39) Benzo[a]pyrene	7.006	252	27989	119.138	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.126	276	28483	118.568	ng/ml	99
41) Dibenzo[a,h]anthracene	8.163	278	28301M6	125.405	ng/ml	
42) Benzo[g,h,i]perylene	8.425	276	28272	121.186	ng/ml	100

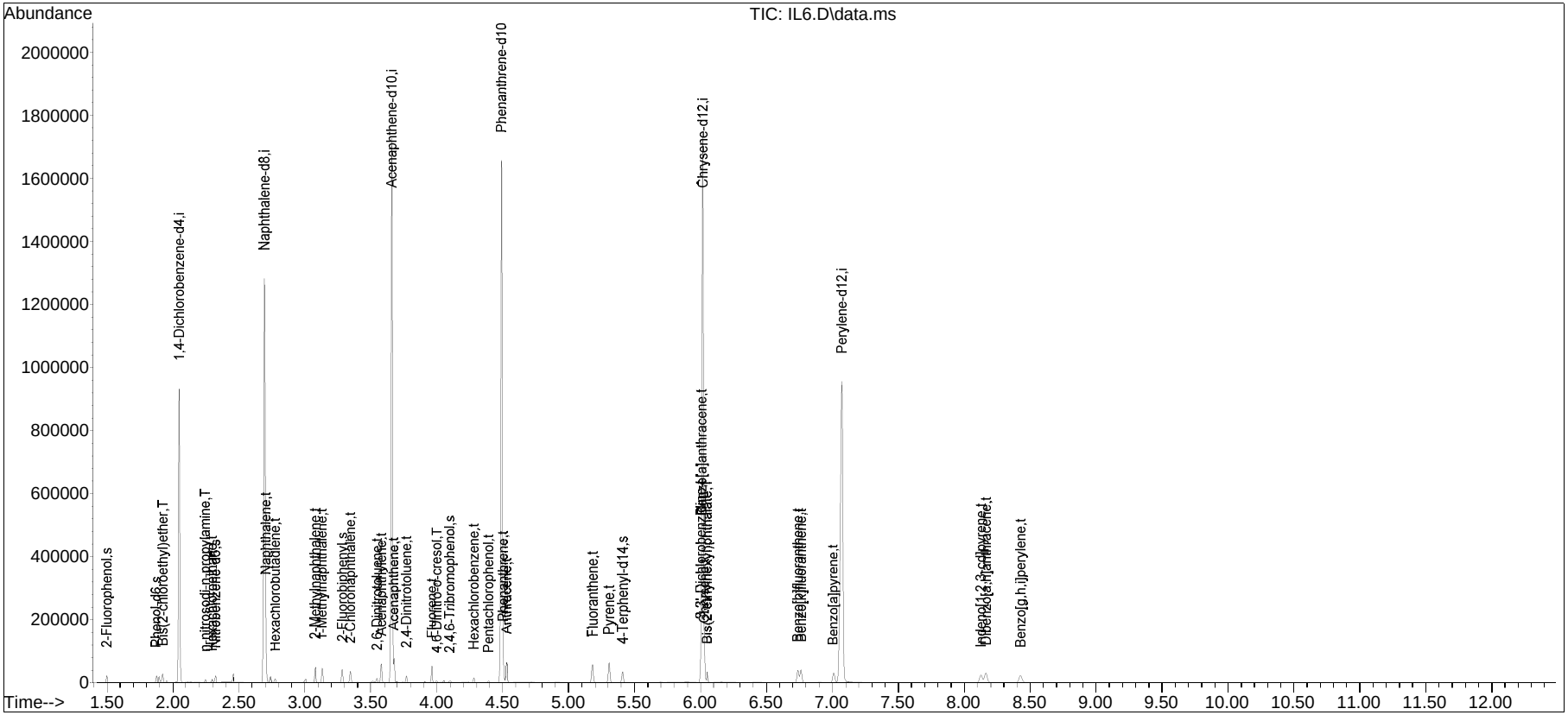
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL6.D
Acq On : 05 Nov 2024 08:36 am
Operator : SV120:mrg
Sample : IL6,32,,100.0ng/mL lot# 10899
Misc : WG1993471
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 02 11:35:45 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

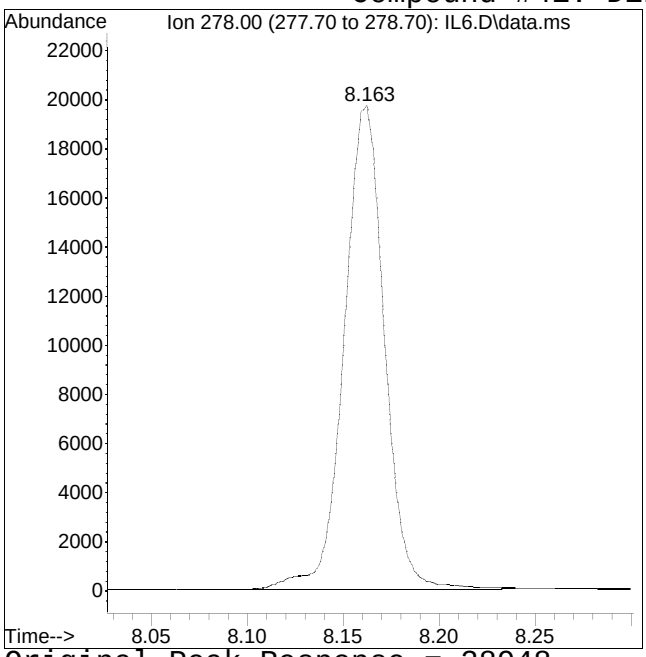
Sub List : Default - All compounds listed05RVTical\IL8.D•



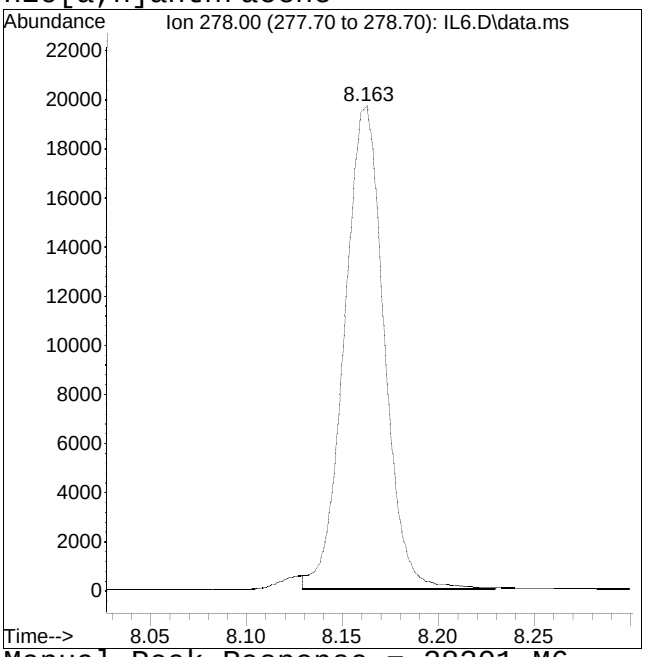
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL6.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 8:36 am Instrument : SV120
Sample : IL6,32,,100.0ng/mL lot# 10Quant Date : 12/2/2024 11:37 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 28948



Manual Peak Response = 28301 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL5.D
Acq On : 05 Nov 2024 08:52 am
Operator : SV120:mrg
Sample : IL5,32,,40.0ng/mL lot# 10891
Misc : WG1993471
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 02 11:35:41 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.047	152	227773	4000.000	ng/ml	0.00
Standard Area 1 = 269340			Recovery = 84.57%			
8) Naphthalene-d8	2.691	136	889425	4000.000	ng/ml	0.00
Standard Area 1 = 1055011			Recovery = 84.30%			
17) Acenaphthene-d10	3.658	164	533237	4000.000	ng/ml	0.00
Standard Area 1 = 611711			Recovery = 87.17%			
22) Phenanthrene-d10	4.494	188	1055271	4000.000	ng/ml	0.00
Standard Area 1 = 1165771			Recovery = 90.52%			
31) Chrysene-d12	6.016	240	977784	4000.000	ng/ml	0.00
Standard Area 1 = 980774			Recovery = 99.70%			
36) Perylene-d12	7.072	264	949887	4000.000	ng/ml	0.00
Standard Area 1 = 961303			Recovery = 98.81%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.496	112	2620	39.084	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.95%#			
3) Phenol-d6	1.875	99	3112	37.776	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.89%#			
7) Nitrobenzene-d5	2.322	82	2787	38.322	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 3.83%#			
13) 2-Fluorobiphenyl	3.286	172	7085	39.522	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 3.95%#			
21) 2,4,6-Tribromophenol	4.102	330	781	36.793	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.84%#			
30) 4-Terphenyl-d14	5.407	244	7660	39.920	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 2.00%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.924	93	2753	35.271	ng/ml	99
5) n-nitrosodi-n-propylamine	2.249	70	1859	37.417	ng/ml	99
6) Hexachloroethane	2.295	117	1142	38.297	ng/ml	99
9) Naphthalene	2.701	128	8513	38.289	ng/ml	99
10) Hexachlorobutadiene	2.778	225	1629	38.667	ng/ml	99
11) 2-Methylnaphthalene	3.079	142	5871	38.035	ng/ml	99
12) 1-Methylnaphthalene	3.131	142	5467	38.506	ng/ml	99
14) 2-Chloronaphthalene	3.344	162	5934	38.726	ng/ml	100
15) 2,6-Dinitrotoluene	3.544	165	1157M4	33.359	ng/ml	
16) Acenaphthylene	3.575	152	8342	37.760	ng/ml	100
18) Acenaphthene	3.675	153	6147	38.191	ng/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL5.D
Acq On : 05 Nov 2024 08:52 am
Operator : SV120:mrg
Sample : IL5,32,,40.0ng/mL lot# 10891
Misc : WG1993471
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 02 11:35:41 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.772	165	1366	30.482	ng/ml#	82
20) Fluorene	3.964	166	6695	38.442	ng/ml	99
23) 4,6-Dinitro-o-cresol	3.999	198	719	44.213	ng/ml	96
24) Hexachlorobenzene	4.280	284	2142	38.427	ng/ml	99
25) Pentachlorophenol	4.394	266	917	37.925	ng/ml	98
26) Phenanthrene	4.506	178	9958M6	39.598	ng/ml	
27) Anthracene	4.534	178	9838	37.812	ng/ml	100
28) Fluoranthene	5.181	202	10954	37.819	ng/ml	99
29) Pyrene	5.307	202	11305	37.851	ng/ml	100
32) Benzo[a]anthracene	6.009	228	13918	37.105	ng/ml	96
33) 3,3'-Dichlorobenzidine	6.001	252	3377	31.951	ng/ml#	74
34) Chrysene	6.028	228	10403	40.188	ng/ml	96
35) Bis(2-ethylhexyl)phtha...	6.050	149	5280	30.516	ng/ml	100
37) Benzo[b]fluoranthene	6.740	252	11042	38.310	ng/ml	99
38) Benzo[k]fluoranthene	6.761	252	9020	34.811	ng/ml	100
39) Benzo[a]pyrene	7.008	252	8522	36.098	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.128	276	8839	36.615	ng/ml	100
41) Dibenzo[a,h]anthracene	8.161	278	8665M6	38.208	ng/ml	
42) Benzo[g,h,i]perylene	8.427	276	8847	37.737	ng/ml	100

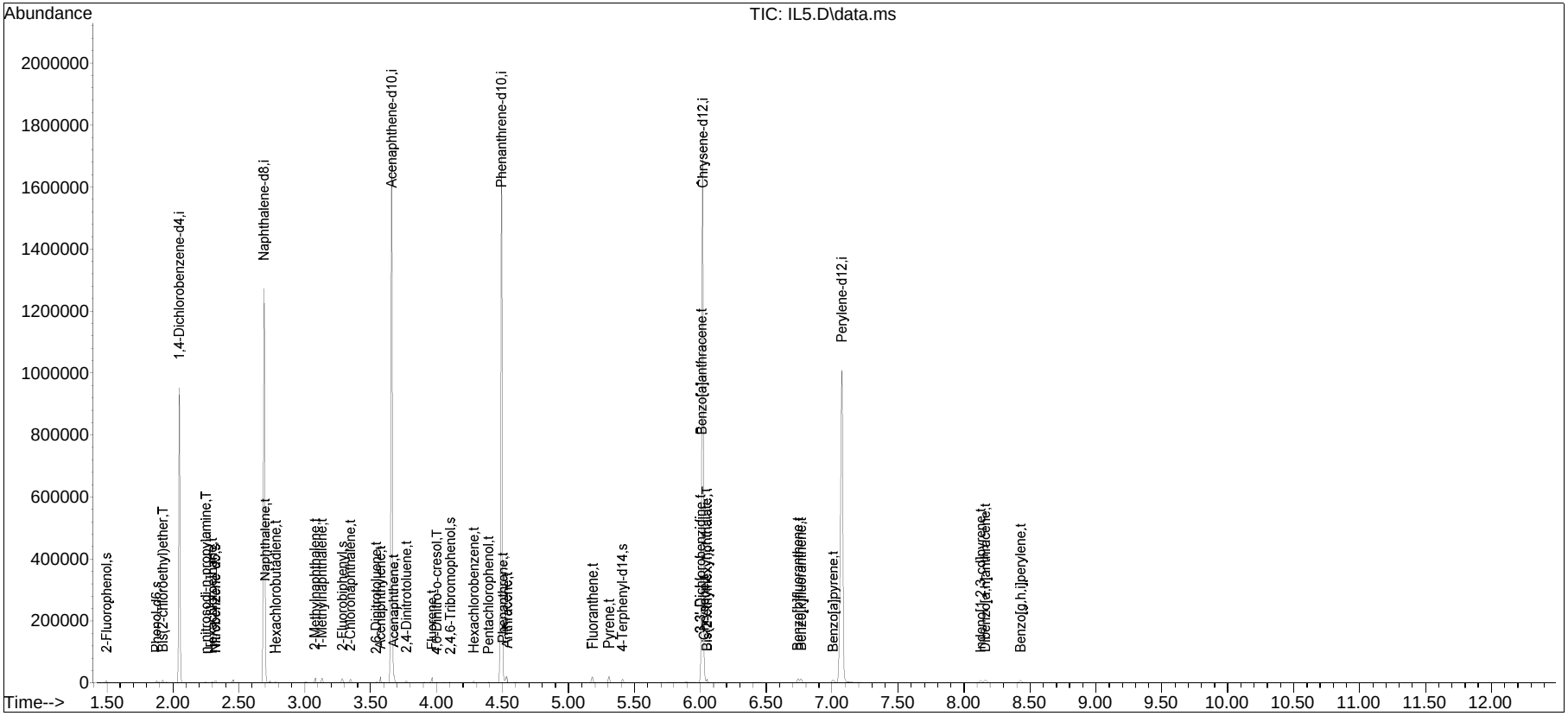
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL5.D
Acq On : 05 Nov 2024 08:52 am
Operator : SV120:mrg
Sample : IL5,32,,40.0ng/mL lot# 10891
Misc : WG1993471
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 02 11:35:41 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

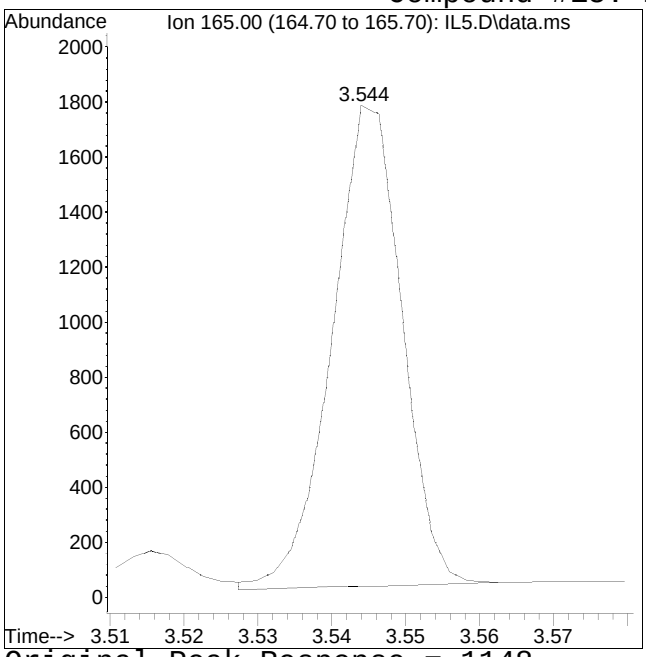
Sub List : Default - All compounds listed05RVTical\IL8.D•



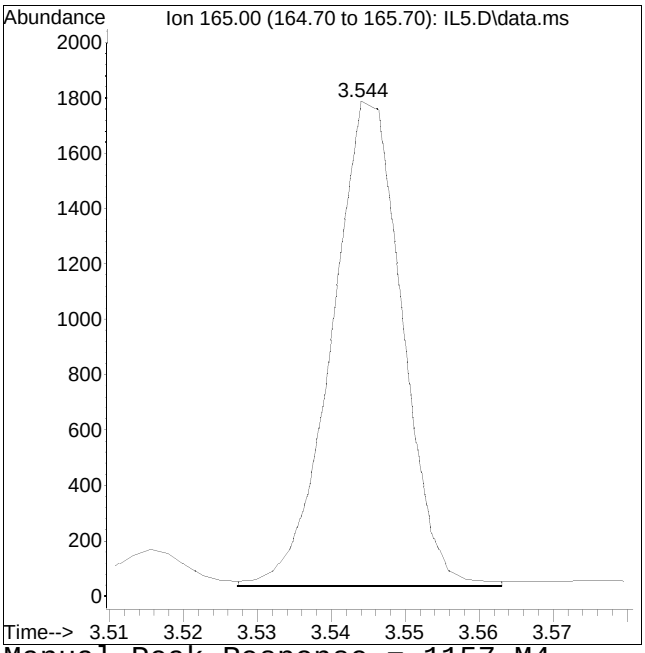
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL5.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 8:52 am Instrument : SV120
Sample : IL5,32,,40.0ng/mL lot# 108Quant Date : 12/2/2024 11:37 am

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 1148



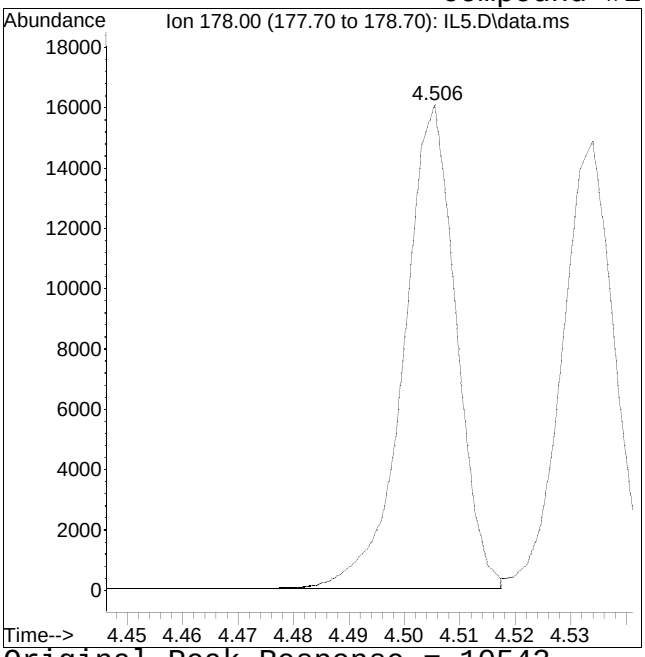
Manual Peak Response = 1157 M4

M4 = Poor automated baseline construction.

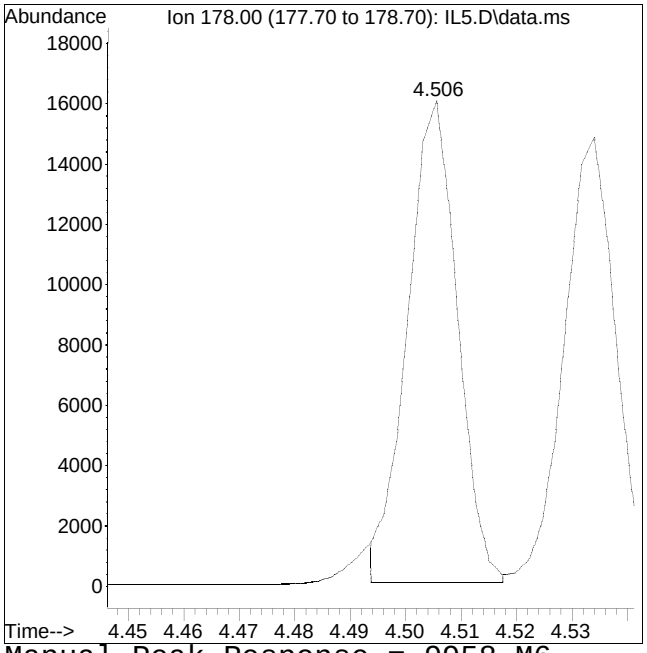
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411Q
Data File : IL5.D
Date Inj'd : 11/5/2024 8:52 am
Sample : IL5,32,,40.0ng/mL lot# 108
Method : SIM-RVT_241105_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 12/2/2024 11:37 am

Compound #26: Phenanthrene



Original Peak Response = 10543



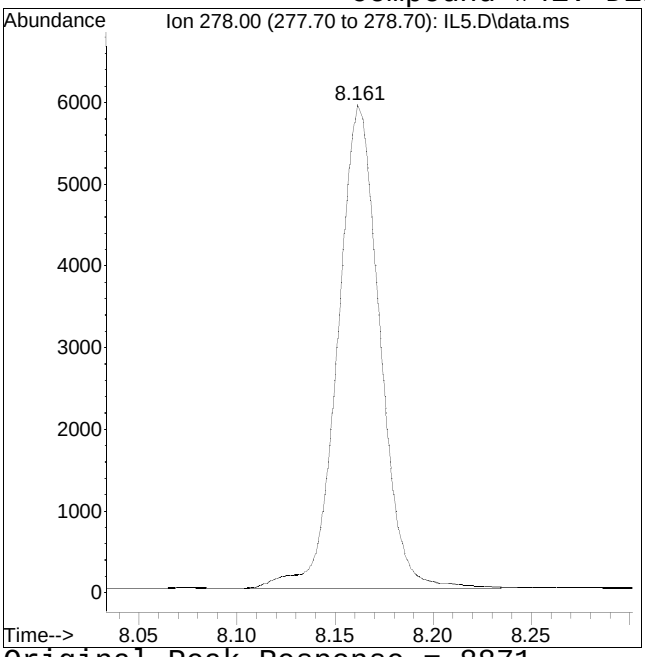
Manual Peak Response = 9958 M6

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

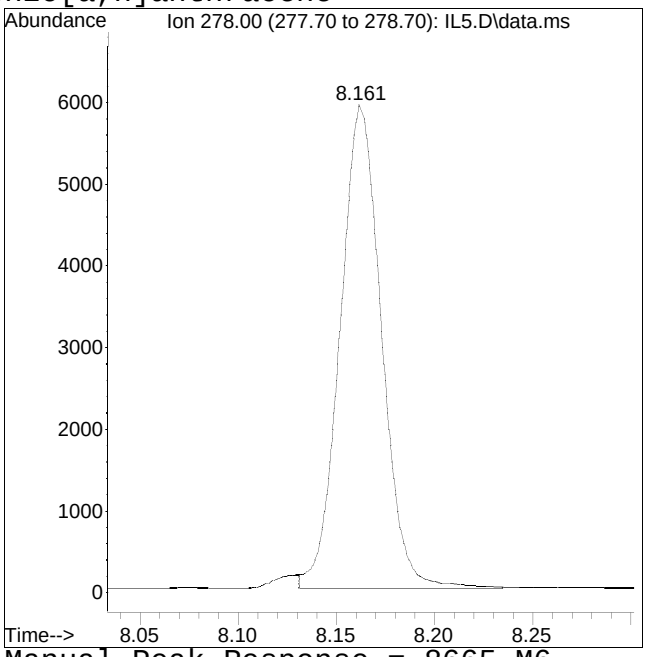
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL5.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 8:52 am Instrument : SV120
Sample : IL5,32,,40.0ng/mL lot# 108Quant Date : 12/2/2024 11:37 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 8871



Manual Peak Response = 8665 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL4.D
Acq On : 05 Nov 2024 09:08 am
Operator : SV120:mrg
Sample : IL4,32,,10.0ng/mL lot#10892
Misc : WG1993471
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 02 11:44:40 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.050	152	266082	4000.000	ng/ml	0.00
Standard Area 1 = 269340			Recovery = 98.79%			
8) Naphthalene-d8	2.692	136	1032752	4000.000	ng/ml	0.00
Standard Area 1 = 1055011			Recovery = 97.89%			
17) Acenaphthene-d10	3.658	164	613551	4000.000	ng/ml	0.00
Standard Area 1 = 611711			Recovery = 100.30%			
22) Phenanthrene-d10	4.494	188	1201426	4000.000	ng/ml	0.00
Standard Area 1 = 1165771			Recovery = 103.06%			
31) Chrysene-d12	6.015	240	1059480	4000.000	ng/ml	0.00
Standard Area 1 = 980774			Recovery = 108.02%			
36) Perylene-d12	7.071	264	1015071	4000.000	ng/ml	0.00
Standard Area 1 = 961303			Recovery = 105.59%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.499	112	777	9.922	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.50%#			
3) Phenol-d6	1.875	99	920	9.560	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.48%#			
7) Nitrobenzene-d5	2.323	82	811	9.546	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.95%#			
13) 2-Fluorobiphenyl	3.284	172	2069	9.940	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.99%#			
21) 2,4,6-Tribromophenol	4.099	330	210	8.598	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.43%#			
30) 4-Terphenyl-d14	5.408	244	2153	9.855	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 0.49%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.924	93	785	6.180	ng/ml	100
5) n-nitrosodi-n-propylamine	2.250	70	541	9.321	ng/ml	98
6) Hexachloroethane	2.296	117	336	9.646	ng/ml	99
9) Naphthalene	2.701	128	2514	9.738	ng/ml#	95
10) Hexachlorobutadiene	2.776	225	480	9.812	ng/ml	99
11) 2-Methylnaphthalene	3.080	142	1723	9.613	ng/ml	99
12) 1-Methylnaphthalene	3.131	142	1599	9.699	ng/ml	98
14) 2-Chloronaphthalene	3.345	162	1724	9.690	ng/ml	99
15) 2,6-Dinitrotoluene	3.544	165	373M4	9.262	ng/ml	
16) Acenaphthylene	3.575	152	2388	9.309	ng/ml	100
18) Acenaphthene	3.675	153	1830	9.881	ng/ml	87

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL4.D
Acq On : 05 Nov 2024 09:08 am
Operator : SV120:mrg
Sample : IL4,32,,10.0ng/mL lot#10892
Misc : WG1993471
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 02 11:44:40 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.772	165	386	7.486	ng/ml#	85
20) Fluorene	3.965	166	1918	9.571	ng/ml	97
23) 4,6-Dinitro-o-cresol	4.000	198	176	26.521	ng/ml	90
24) Hexachlorobenzene	4.280	284	621	9.785	ng/ml	100
25) Pentachlorophenol	4.394	266	227	13.695	ng/ml	91
26) Phenanthrene	4.506	178	2903M6	10.140	ng/ml	
27) Anthracene	4.534	178	2801	9.456	ng/ml	100
28) Fluoranthene	5.179	202	3088	9.364	ng/ml	99
29) Pyrene	5.308	202	3223	9.478	ng/ml	99
32) Benzo[a]anthracene	6.013	228	6056	9.105	ng/ml#	84
33) 3,3'-Dichlorobenzidine	0.000		0	N.D.	d	
34) Chrysene	6.027	228	2835	10.107	ng/ml	96
35) Bis(2-ethylhexyl)phtha...	6.047	149	1939	10.342	ng/ml	99
37) Benzo[b]fluoranthene	6.736	252	2826	9.175	ng/ml	100
38) Benzo[k]fluoranthene	6.757	252	2542	9.181	ng/ml	100
39) Benzo[a]pyrene	7.004	252	2244	8.895	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.124	276	2336	9.055	ng/ml	100
41) Dibenzo[a,h]anthracene	8.157	278	2239M6	9.239	ng/ml	
42) Benzo[g,h,i]perylene	8.422	276	2358	9.412	ng/ml	100

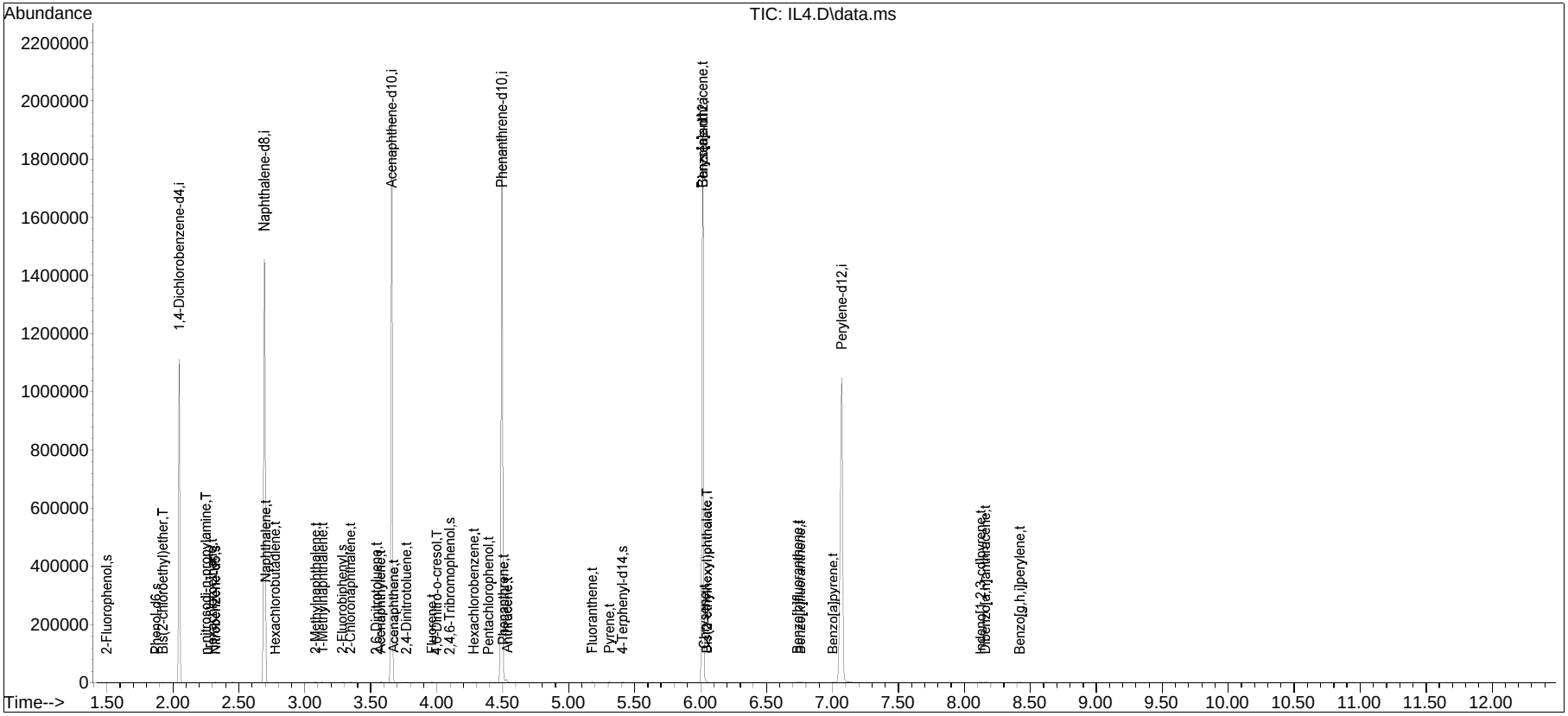
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL4.D
Acq On : 05 Nov 2024 09:08 am
Operator : SV120:mrg
Sample : IL4,32,,10.0ng/mL lot#10892
Misc : WG1993471
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 02 11:44:40 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

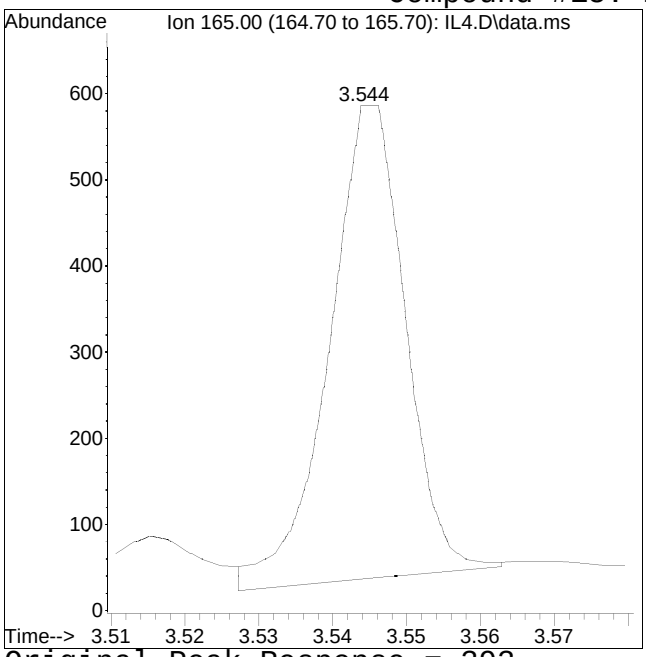
Sub List : Default - All compounds listed05RVTical\IL8.D•



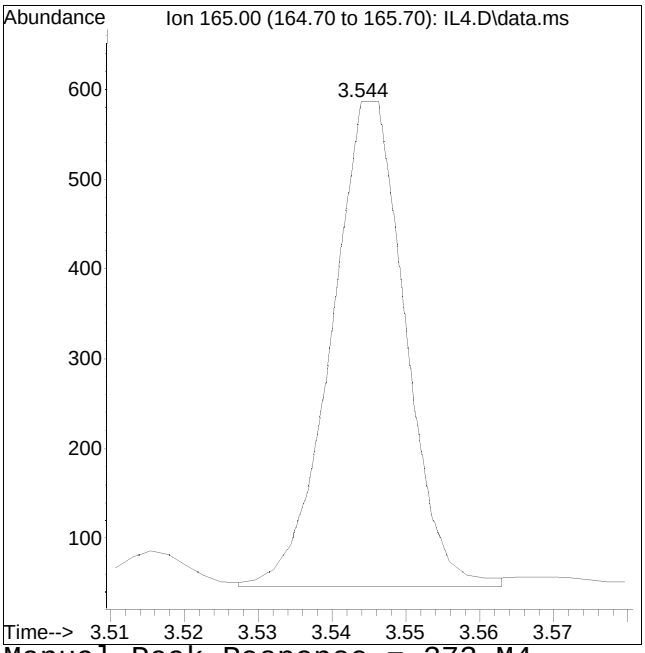
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411Q
Data File : IL4.D
Date Inj'd : 11/5/2024 9:08 am
Sample : IL4,32,,10.0ng/mL lot#1089
Method : SIM-RVT_241105_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 12/2/2024 11:37 am

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 393



Manual Peak Response = 373 M4

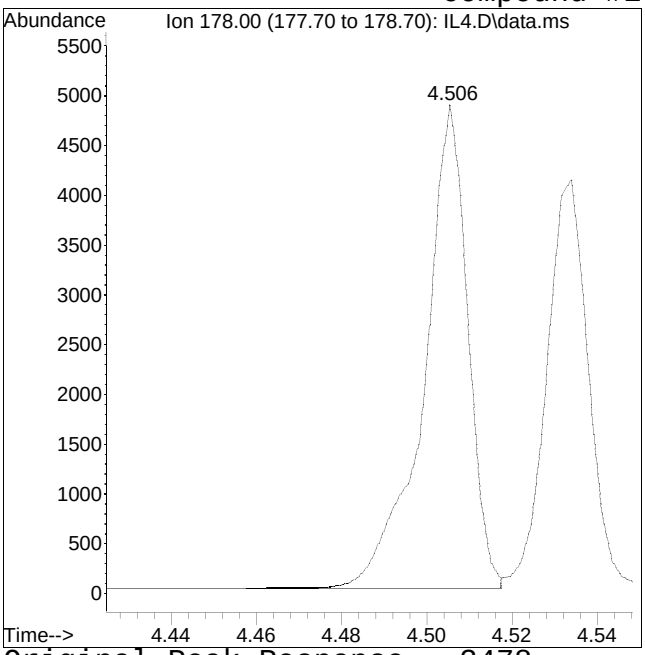
M4 = Poor automated baseline construction.

Manual Integration Report

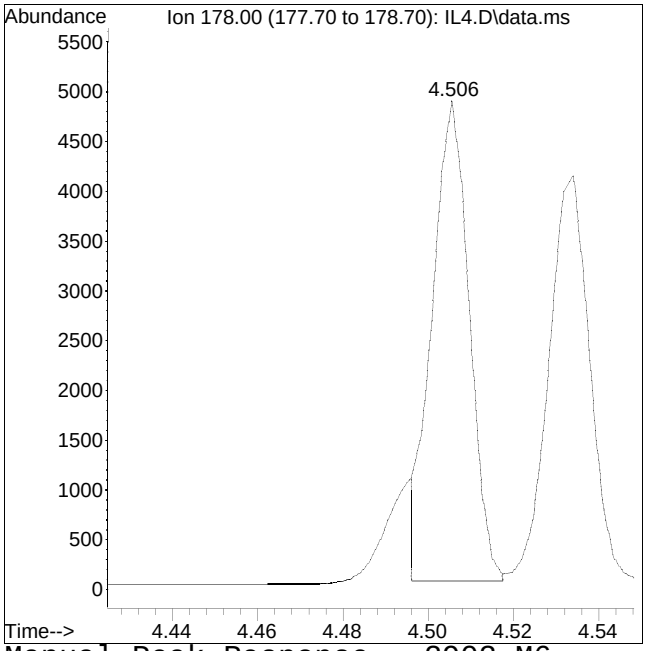
Data Path : I:\8270SIM\sv120\2024\2411Q
Data File : IL4.D
Date Inj'd : 11/5/2024 9:08 am
Sample : IL4,32,,10.0ng/mL lot#1089

Method : SIM-RVT_241105_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 12/2/2024 11:37 am

Compound #26: Phenanthrene



Original Peak Response = 3478



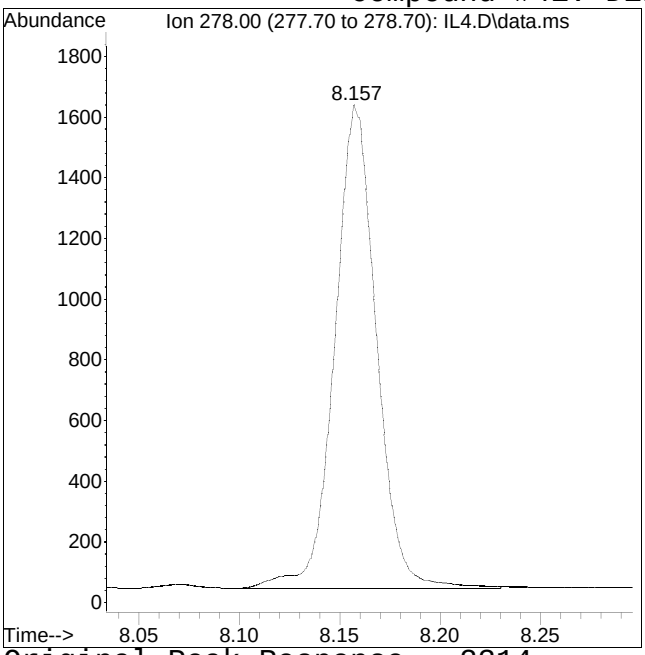
Manual Peak Response = 2903 M6

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

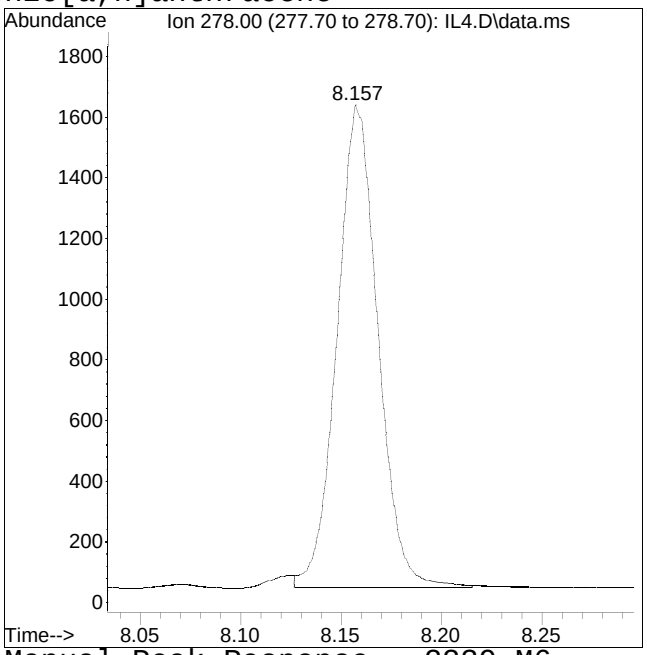
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL4.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 9:08 am Instrument : SV120
Sample : IL4,32,,10.0ng/mL lot#1089Quant Date : 12/2/2024 11:37 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 2314



Manual Peak Response = 2239 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL3.D
Acq On : 05 Nov 2024 09:24 am
Operator : SV120:mrg
Sample : IL3,32,,5.0ng/mL lot# 10893
Misc : WG1993471
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 02 11:44:28 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.049	152	277209	4000.000	ng/ml	0.00
Standard Area 1 = 269340			Recovery = 102.92%			
8) Naphthalene-d8	2.692	136	1070314	4000.000	ng/ml	0.00
Standard Area 1 = 1055011			Recovery = 101.45%			
17) Acenaphthene-d10	3.659	164	639747	4000.000	ng/ml	0.00
Standard Area 1 = 611711			Recovery = 104.58%			
22) Phenanthrene-d10	4.492	188	1250139	4000.000	ng/ml	0.00
Standard Area 1 = 1165771			Recovery = 107.24%			
31) Chrysene-d12	6.013	240	1105773	4000.000	ng/ml	0.00
Standard Area 1 = 980774			Recovery = 112.74%			
36) Perylene-d12	7.069	264	1030640	4000.000	ng/ml	0.00
Standard Area 1 = 961303			Recovery = 107.21%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.504	112	415	5.087	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.25%#			
3) Phenol-d6	1.877	99	474	4.728	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.24%#			
7) Nitrobenzene-d5	2.323	82	428	4.836	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.48%#			
13) 2-Fluorobiphenyl	3.284	172	1100	5.099	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.51%#			
21) 2,4,6-Tribromophenol	4.101	330	114	4.476	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.22%#			
30) 4-Terphenyl-d14	5.406	244	1167	5.134	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 0.26%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.926	93	427	1.694	ng/ml	100
5) n-nitrosodi-n-propylamine	2.250	70	296	4.895	ng/ml	96
6) Hexachloroethane	2.296	117	180	4.960	ng/ml	99
9) Naphthalene	2.701	128	1375	5.139	ng/ml#	90
10) Hexachlorobutadiene	2.776	225	258	5.089	ng/ml	94
11) 2-Methylnaphthalene	3.079	142	934	5.028	ng/ml	100
12) 1-Methylnaphthalene	3.131	142	868	5.080	ng/ml	100
14) 2-Chloronaphthalene	3.345	162	937	5.082	ng/ml	100
15) 2,6-Dinitrotoluene	0.000		0	N.D. d		
16) Acenaphthylene	3.576	152	1283	4.826	ng/ml	100
18) Acenaphthene	3.673	153	939M6	4.863	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL3.D
Acq On : 05 Nov 2024 09:24 am
Operator : SV120:mrg
Sample : IL3,32,,5.0ng/mL lot# 10893
Misc : WG1993471
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 02 11:44:28 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
20) Fluorene	3.963	166	1019	4.877	ng/ml	98
23) 4,6-Dinitro-o-cresol	4.002	198	86	23.951	ng/ml	89
24) Hexachlorobenzene	4.278	284	338	5.119	ng/ml	99
25) Pentachlorophenol	4.395	266	115	10.237	ng/ml	97
26) Phenanthrene	4.504	178	1401M6	4.703	ng/ml	
27) Anthracene	4.532	178	1524	4.944	ng/ml	100
28) Fluoranthene	5.181	202	1702	4.960	ng/ml	100
29) Pyrene	5.307	202	1759	4.971	ng/ml	99
32) Benzo[a]anthracene	6.010	228	4931M6	4.974	ng/ml	
33) 3,3'-Dichlorobenzidine	0.000		0	N.D.	d	
34) Chrysene	6.025	228	1377M3	4.704	ng/ml	
35) Bis(2-ethylhexyl)phtha...	6.047	149	1061	5.422	ng/ml	99
37) Benzo[b]fluoranthene	6.734	252	1525	4.876	ng/ml	100
38) Benzo[k]fluoranthene	6.755	252	1338	4.759	ng/ml	100
39) Benzo[a]pyrene	7.002	252	1177	4.595	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.119	276	1218	4.650	ng/ml	99
41) Dibenzo[a,h]anthracene	8.155	278	1151M6	4.678	ng/ml	
42) Benzo[g,h,i]perylene	8.418	276	1212	4.765	ng/ml	100

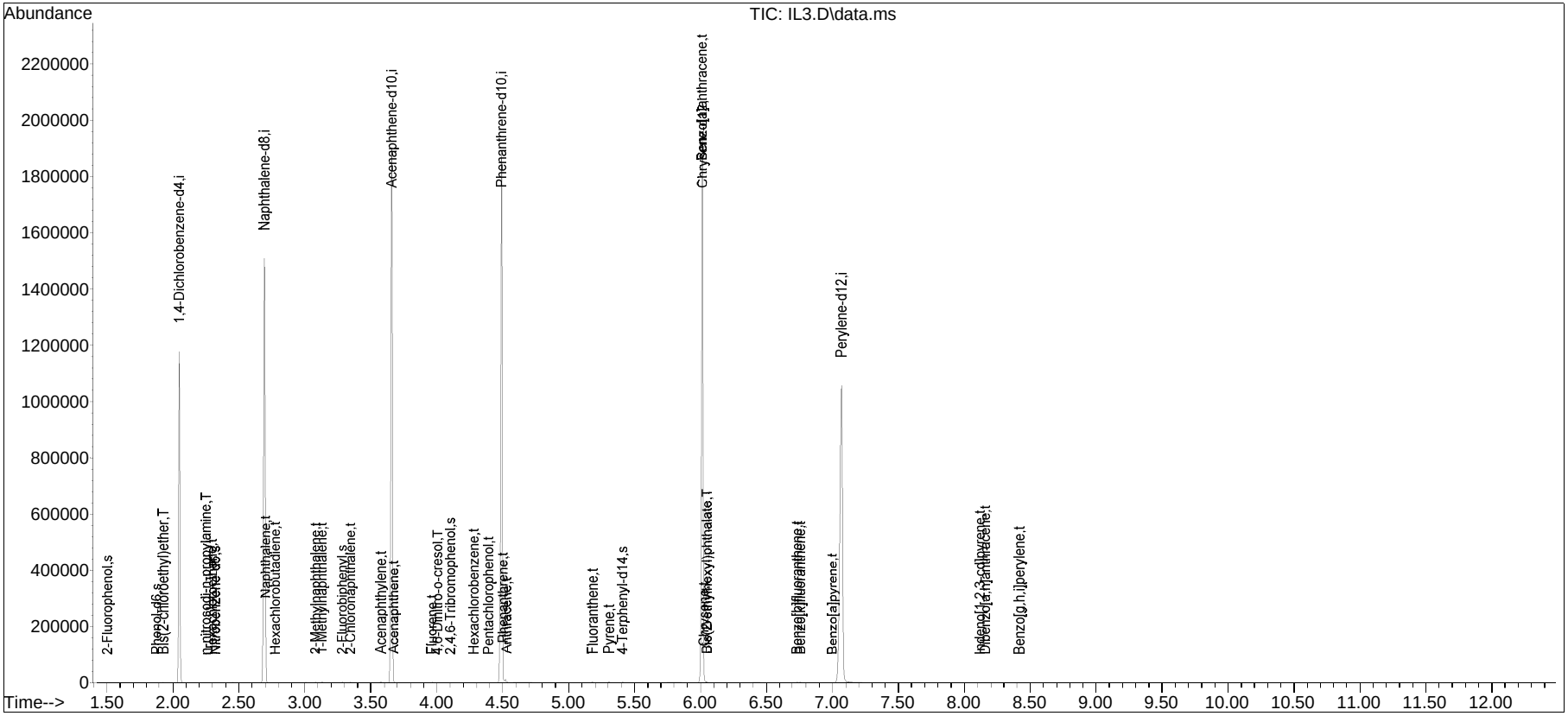
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL3.D
Acq On : 05 Nov 2024 09:24 am
Operator : SV120:mrg
Sample : IL3,32,,5.0ng/mL lot# 10893
Misc : WG1993471
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 02 11:44:28 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

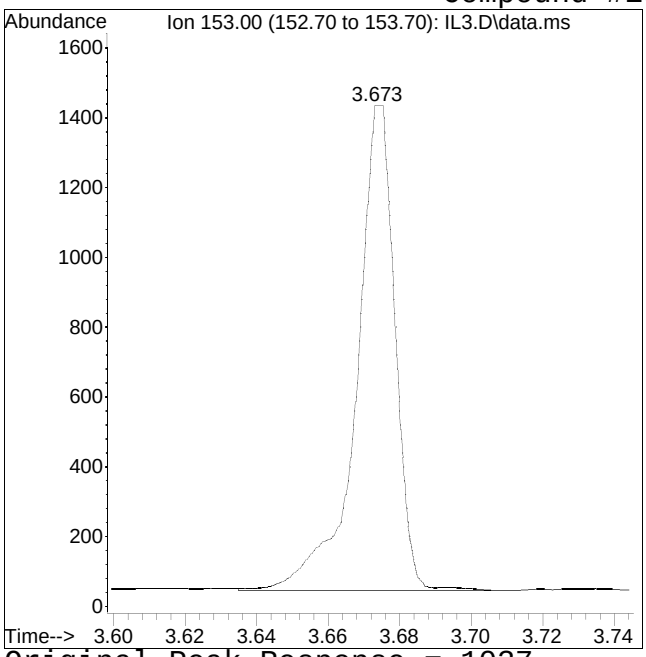
Sub List : Default - All compounds listed05RVTical\IL8.D•



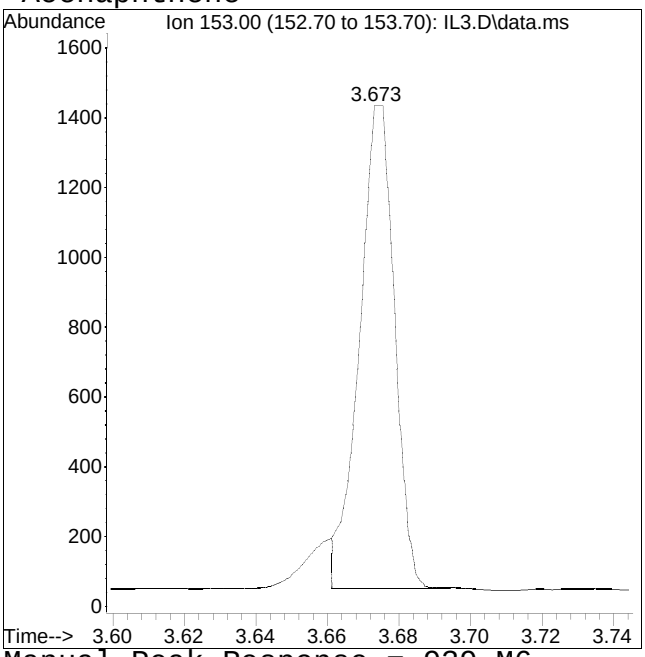
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL3.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 9:24 am Instrument : SV120
Sample : IL3,32,,5.0ng/mL lot# 1089Quant Date : 12/2/2024 11:36 am

Compound #18: Acenaphthene



Original Peak Response = 1037



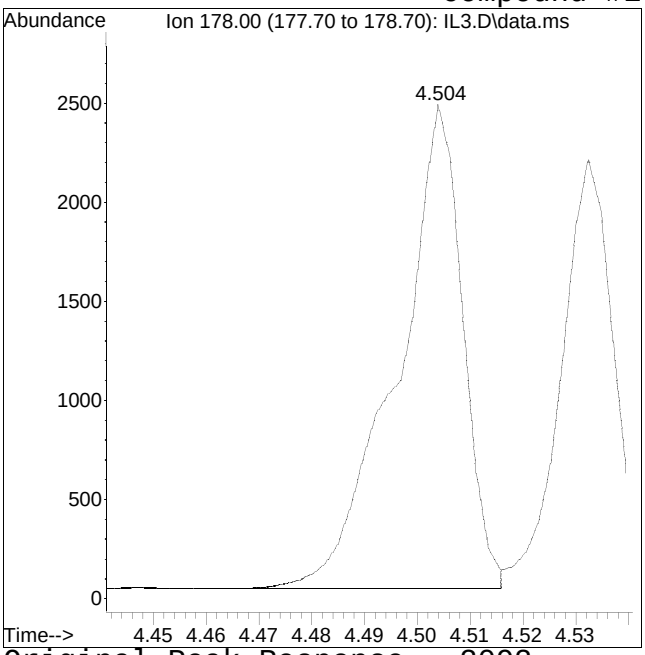
Manual Peak Response = 939 M6

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

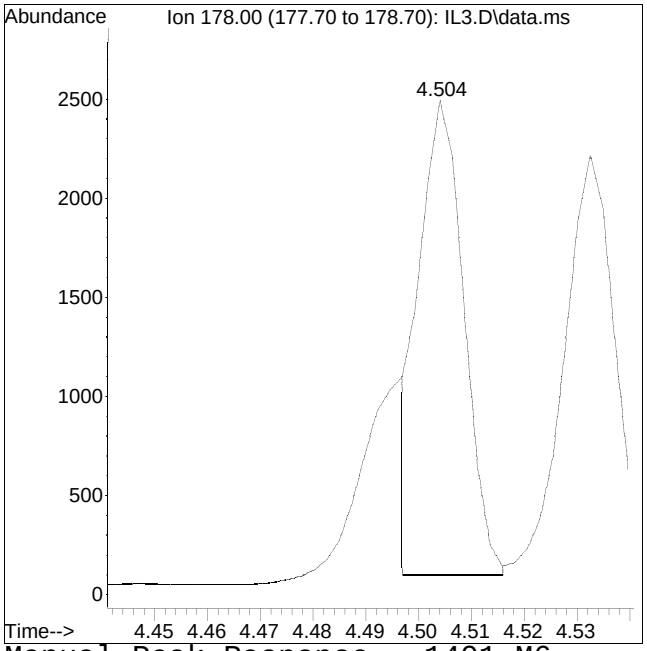
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL3.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 9:24 am Instrument : SV120
Sample : IL3,32,,5.0ng/mL lot# 1089Quant Date : 12/2/2024 11:36 am

Compound #26: Phenanthrene



Original Peak Response = 2092



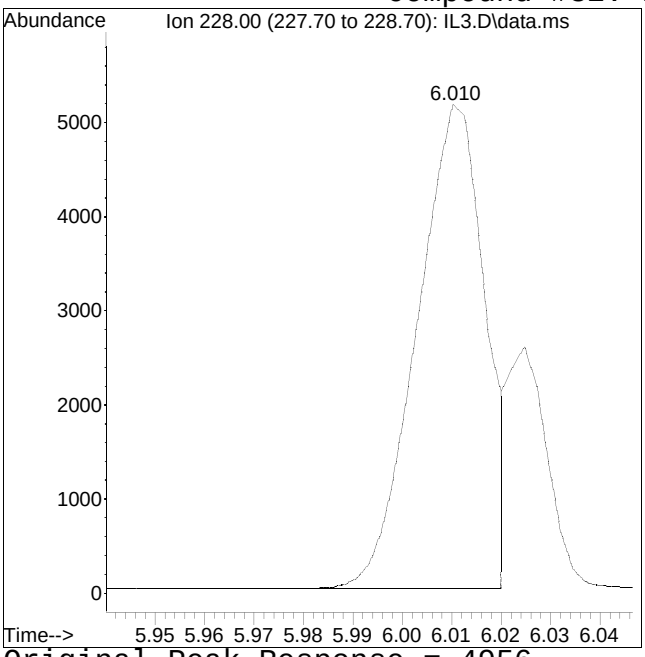
Manual Peak Response = 1401 M6

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

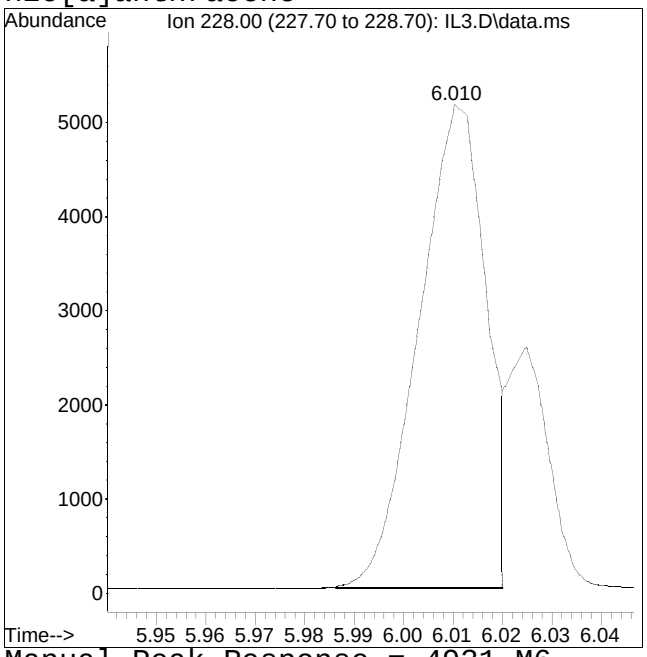
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411Q
Data File : IL3.D
Date Inj'd : 11/5/2024 9:24 am
Sample : IL3,32,,5.0ng/mL lot# 1089
Method : SIM-RVT_241105_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 12/2/2024 11:36 am

Compound #32: Benzo[a]anthracene



Original Peak Response = 4956



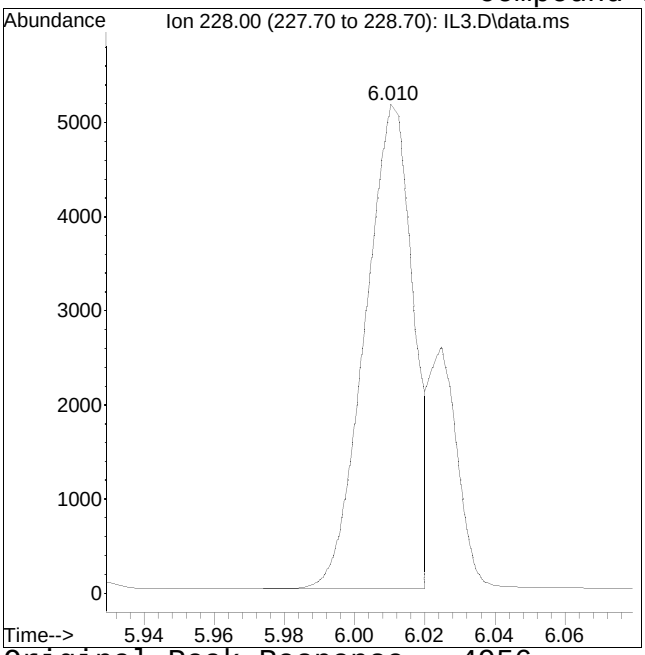
Manual Peak Response = 4931 M6

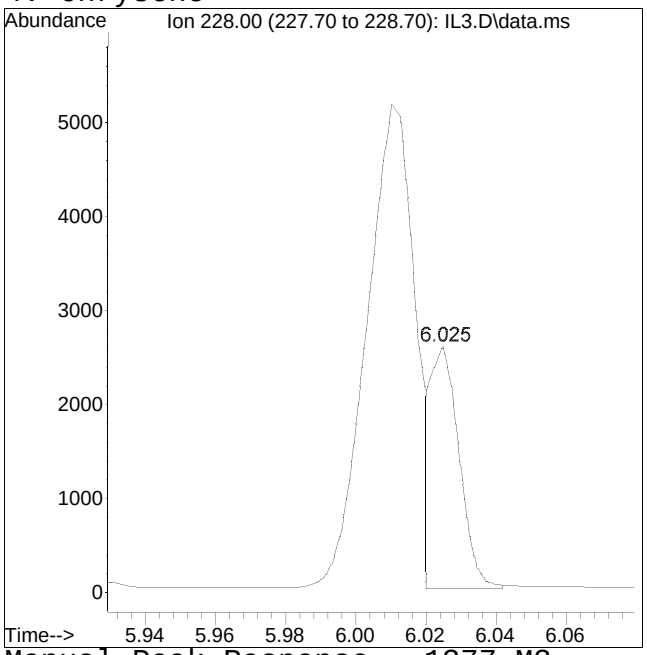
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL3.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 9:24 am Instrument : SV120
Sample : IL3,32,,5.0ng/mL lot# 1089Quant Date : 12/2/2024 11:36 am

Compound #34: Chrysene



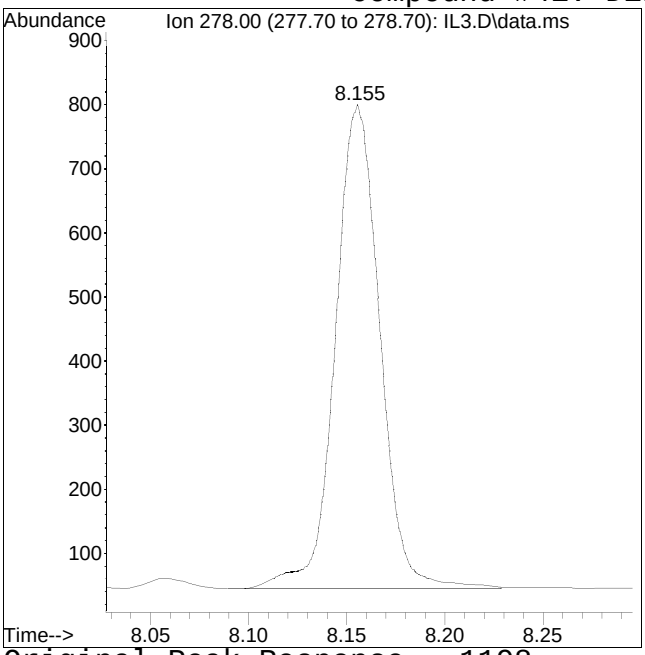


Original Peak Response = 4956 Manual Peak Response = 1377 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

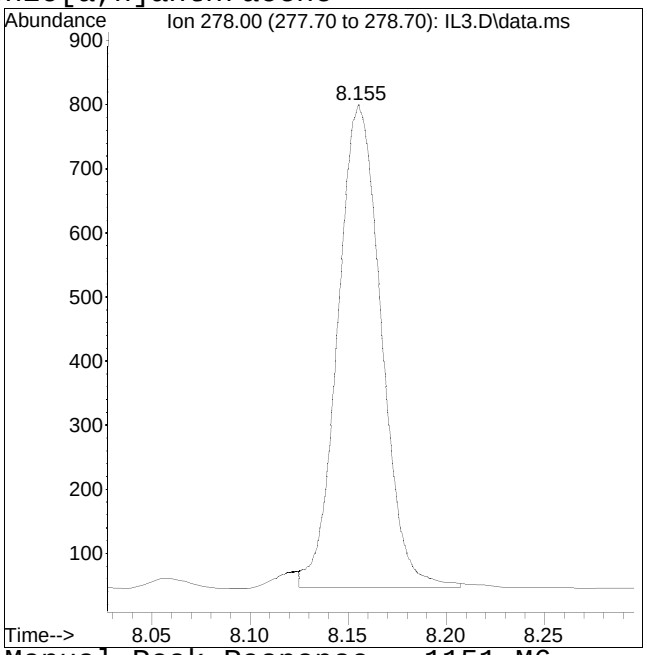
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL3.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 9:24 am Instrument : SV120
Sample : IL3,32,,5.0ng/mL lot# 1089Quant Date : 12/2/2024 11:36 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 1198



Manual Peak Response = 1151 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL2.D
Acq On : 05 Nov 2024 09:41 am
Operator : SV120:mrg
Sample : IL2,32,,2.0ng/mL lot# 10900
Misc : WG1993471
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 02 11:44:20 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.050	152	300806	4000.000	ng/ml	0.00
Standard Area 1 = 269340			Recovery = 111.68%			
8) Naphthalene-d8	2.692	136	1162521	4000.000	ng/ml	0.00
Standard Area 1 = 1055011			Recovery = 110.19%			
17) Acenaphthene-d10	3.657	164	694331	4000.000	ng/ml	0.00
Standard Area 1 = 611711			Recovery = 113.51%			
22) Phenanthrene-d10	4.494	188	1365605	4000.000	ng/ml	0.00
Standard Area 1 = 1165771			Recovery = 117.14%			
31) Chrysene-d12	6.017	240	1182613	4000.000	ng/ml	0.00
Standard Area 1 = 980774			Recovery = 120.58%			
36) Perylene-d12	7.074	264	1106733	4000.000	ng/ml	0.00
Standard Area 1 = 961303			Recovery = 115.13%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.506	112	191	2.157	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.11%#			
3) Phenol-d6	1.877	99	222	2.041	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.10%#			
7) Nitrobenzene-d5	2.323	82	187	1.947	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.19%#			
13) 2-Fluorobiphenyl	3.284	172	509	2.172	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.22%#			
21) 2,4,6-Tribromophenol	4.099	330	52M4	1.881	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.09%#			
30) 4-Terphenyl-d14	5.409	244	545	2.195	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 0.11%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.920	93	504	2.124	ng/ml#	44
5) n-nitrosodi-n-propylamine	0.000		0	N.D.	d	
6) Hexachloroethane	2.296	117	92	2.336	ng/ml	96
9) Naphthalene	2.702	128	671	2.309	ng/ml#	79
10) Hexachlorobutadiene	2.776	225	119	2.161	ng/ml	91
11) 2-Methylnaphthalene	3.080	142	431	2.136	ng/ml	99
12) 1-Methylnaphthalene	3.132	142	397	2.139	ng/ml	100
14) 2-Chloronaphthalene	3.345	162	436	2.177	ng/ml	99
15) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
16) Acenaphthylene	3.576	152	610	2.112	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL2.D
Acq On : 05 Nov 2024 09:41 am
Operator : SV120:mrg
Sample : IL2,32,,2.0ng/mL lot# 10900
Misc : WG1993471
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 02 11:44:20 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18) Acenaphthene	3.673	153	454M6	2.166	ng/ml	
19) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
20) Fluorene	3.961	166	487M6	2.148	ng/ml	
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
24) Hexachlorobenzene	4.278	284	160	2.218	ng/ml	94
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	4.506	178	635M6	1.951	ng/ml	
27) Anthracene	4.532	178	690M6	2.049	ng/ml	
28) Fluoranthene	5.180	202	814	2.172	ng/ml#	94
29) Pyrene	5.306	202	839	2.171	ng/ml	99
32) Benzo[a]anthracene	6.014	228	4239M6	2.098	ng/ml	
33) 3,3'-Dichlorobenzidine	0.000		0	N.D.	d	
34) Chrysene	6.024	228	584M3	1.865	ng/ml	
35) Bis(2-ethylhexyl)phtha...	6.048	149	922	4.406	ng/ml	98
37) Benzo[b]fluoranthene	6.739	252	719	2.141	ng/ml	99
38) Benzo[k]fluoranthene	6.760	252	584	1.934	ng/ml	99
39) Benzo[a]pyrene	7.007	252	542	1.970	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.127	276	555	1.973	ng/ml	97
41) Dibenzo[a,h]anthracene	8.160	278	526M6	1.991	ng/ml	
42) Benzo[g,h,i]perylene	8.422	276	551	2.017	ng/ml	99

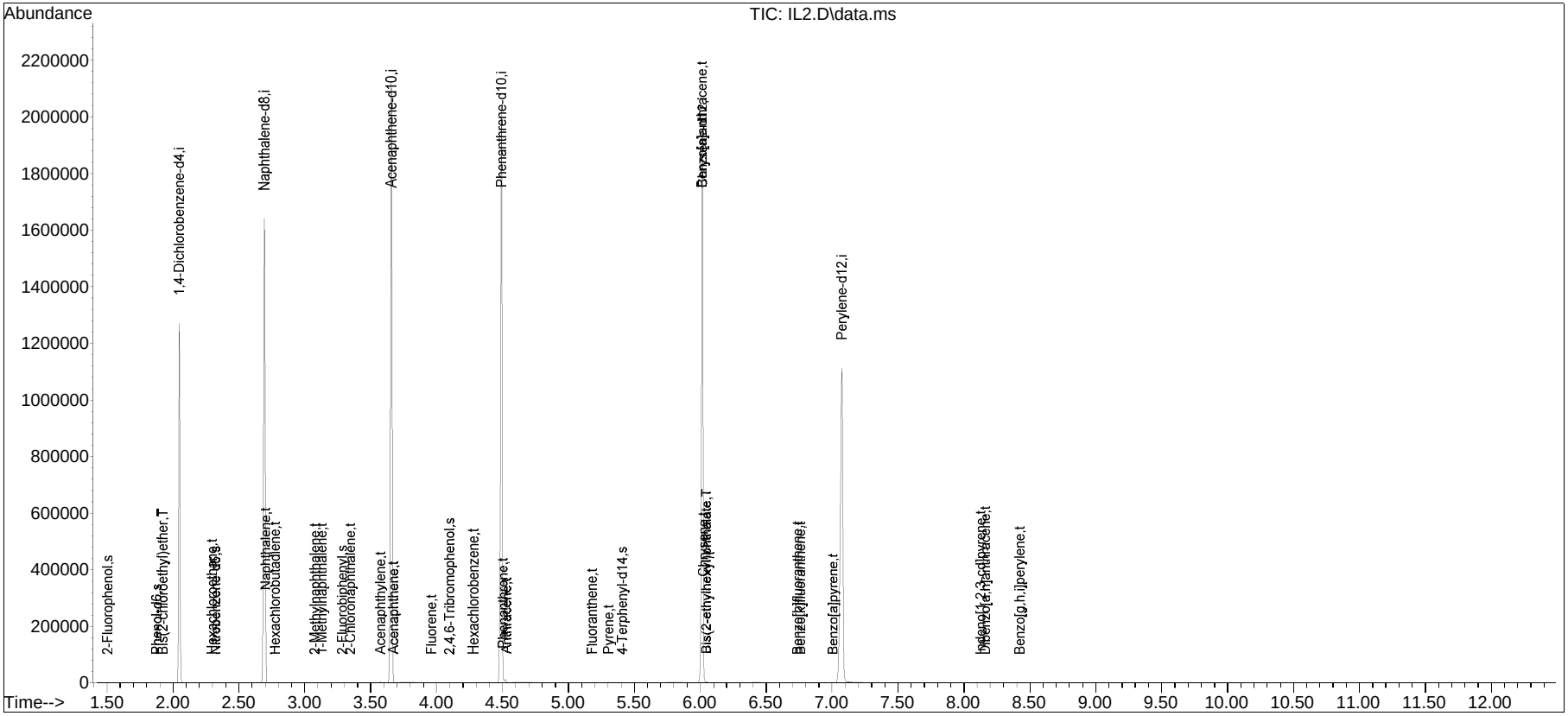
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL2.D
Acq On : 05 Nov 2024 09:41 am
Operator : SV120:mrg
Sample : IL2,32,,2.0ng/mL lot# 10900
Misc : WG1993471
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 02 11:44:20 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

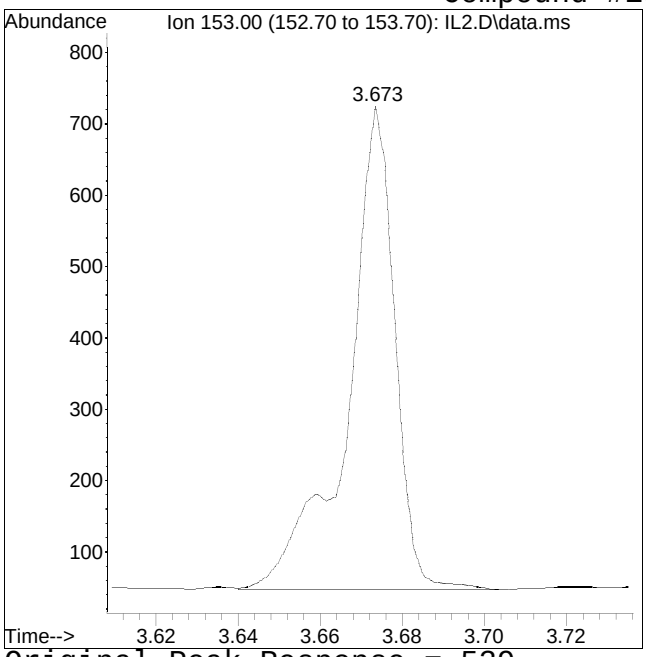
Sub List : Default - All compounds listed05RVTical\IL8.D•



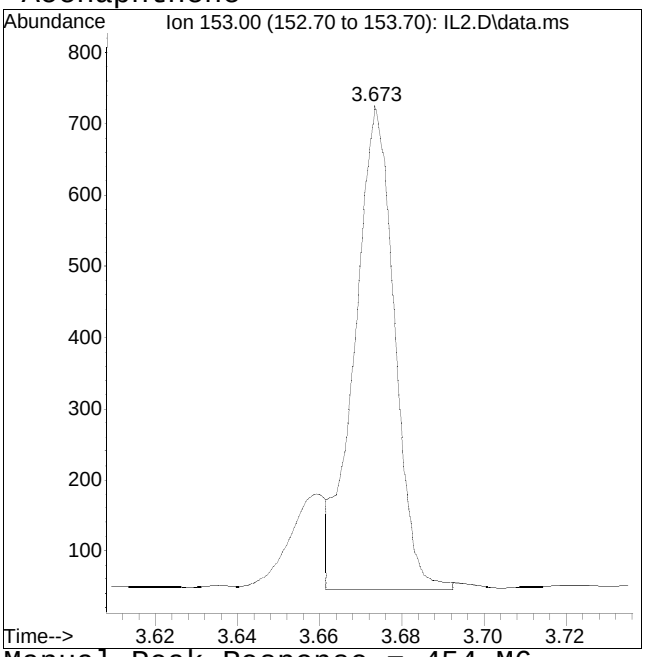
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL2.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 9:41 am Instrument : SV120
Sample : IL2,32,,2.0ng/mL lot# 1090Quant Date : 12/2/2024 11:36 am

Compound #18: Acenaphthene



Original Peak Response = 539



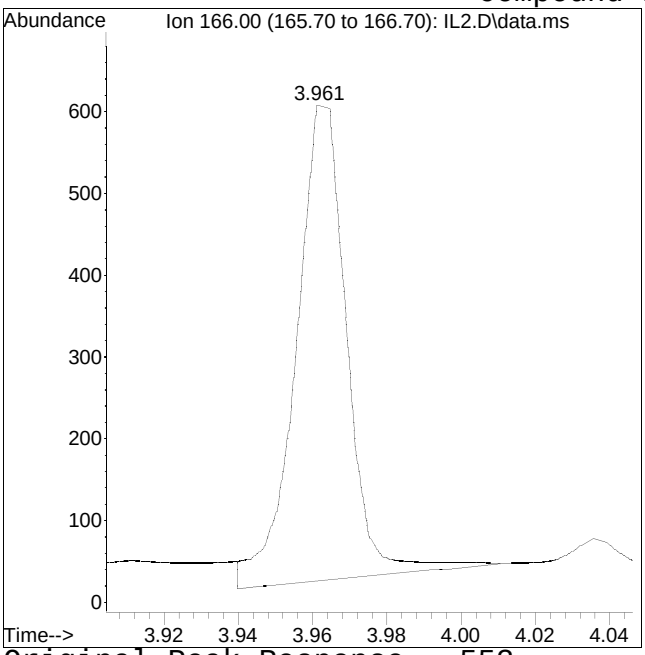
Manual Peak Response = 454 M6

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

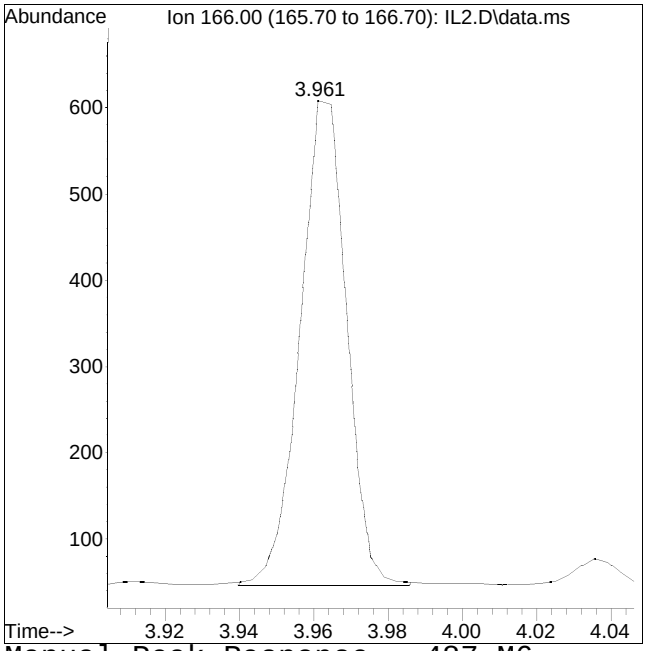
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL2.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 9:41 am Instrument : SV120
Sample : IL2,32,,2.0ng/mL lot# 1090Quant Date : 12/2/2024 11:36 am

Compound #20: Fluorene



Original Peak Response = 553



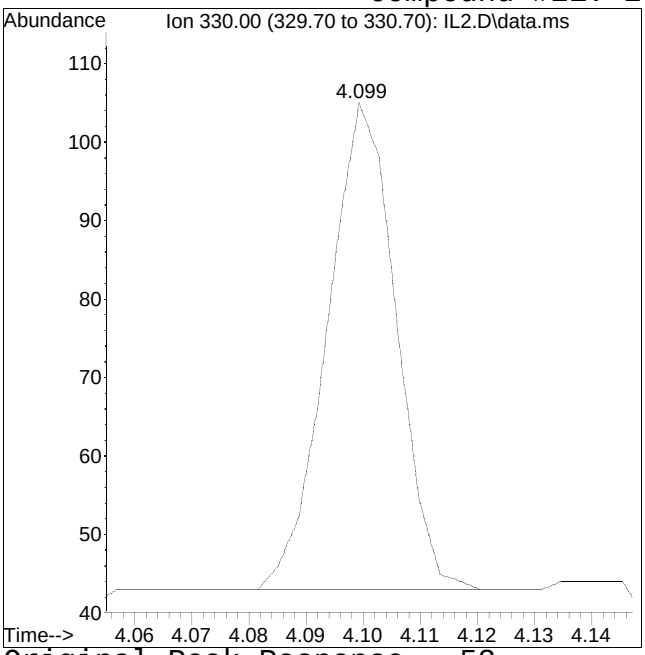
Manual Peak Response = 487 M6

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

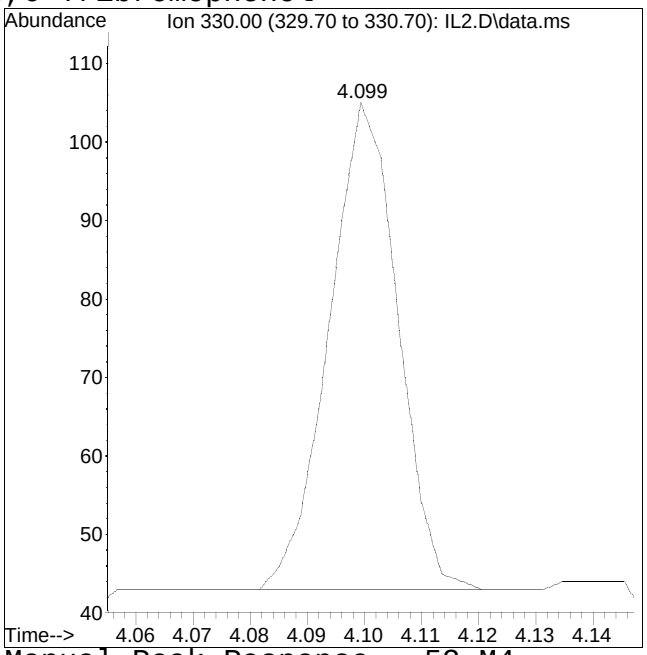
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL2.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 9:41 am Instrument : SV120
Sample : IL2,32,,2.0ng/mL lot# 1090Quant Date : 12/2/2024 11:36 am

Compound #21: 2,4,6-Tribromophenol



Original Peak Response = 52



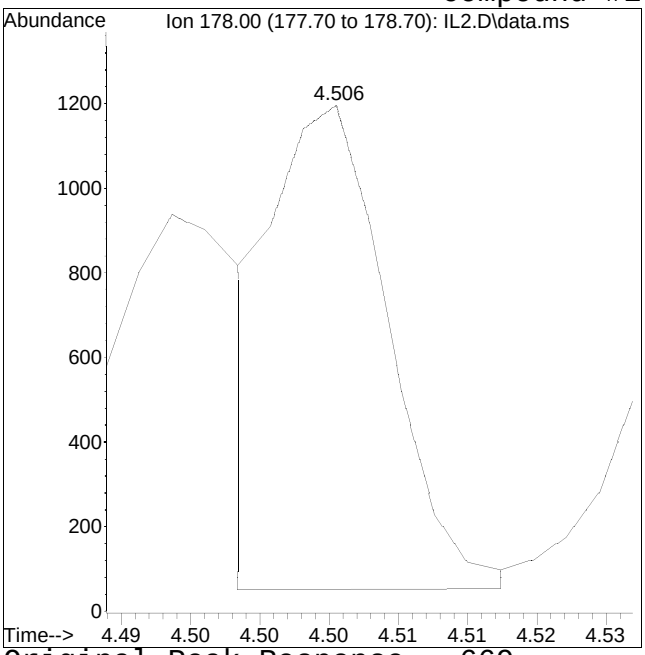
Manual Peak Response = 52 M4

M4 = Poor automated baseline construction.

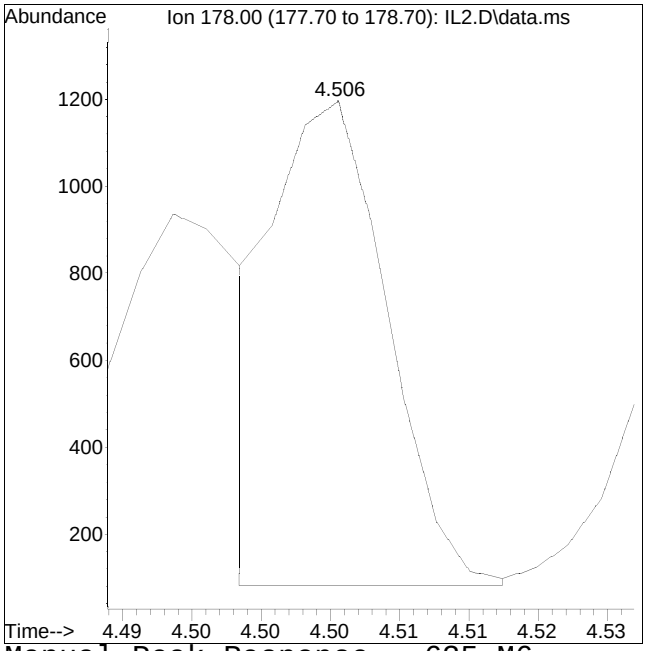
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL2.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 9:41 am Instrument : SV120
Sample : IL2,32,,2.0ng/mL lot# 1090Quant Date : 12/2/2024 11:36 am

Compound #26: Phenanthrene



Original Peak Response = 669



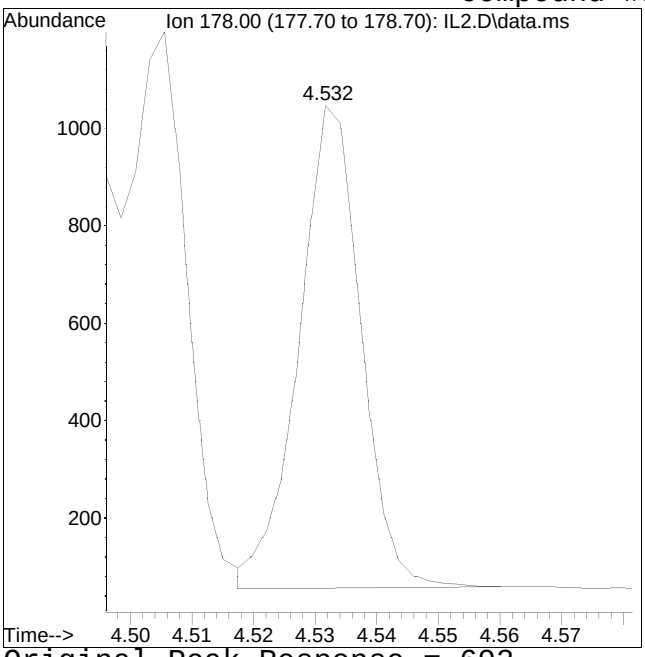
Manual Peak Response = 635 M6

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

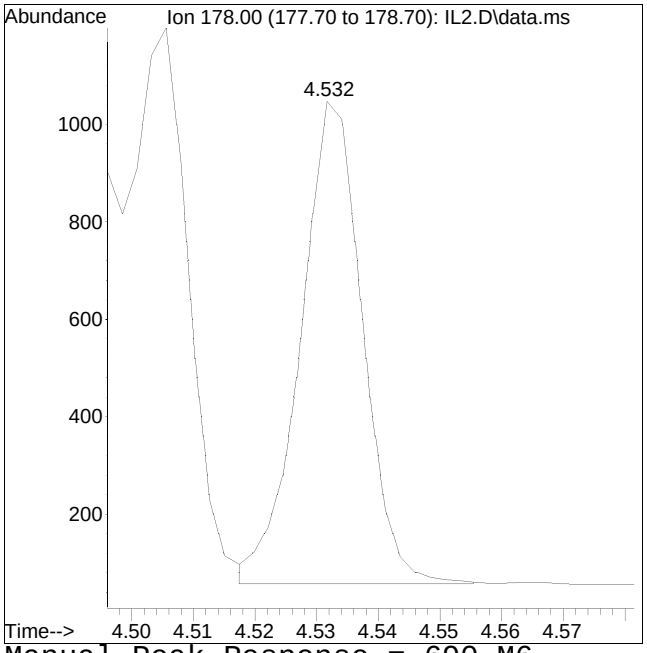
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL2.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 9:41 am Instrument : SV120
Sample : IL2,32,,2.0ng/mL lot# 1090Quant Date : 12/2/2024 11:36 am

Compound #27: Anthracene



Original Peak Response = 692



Manual Peak Response = 690 M6

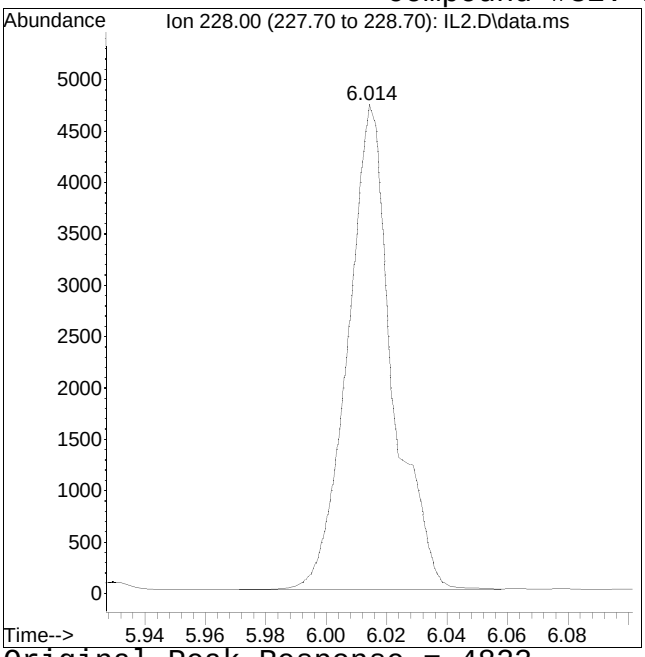
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

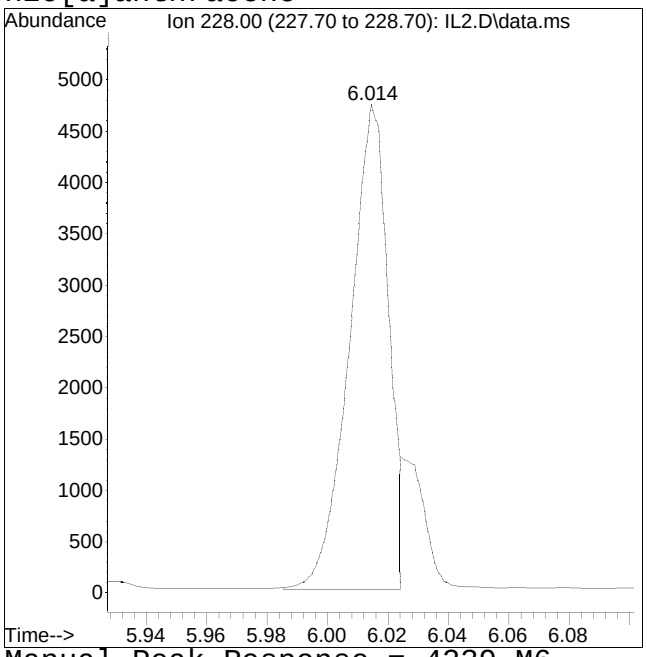
Data Path : I:\8270SIM\sv120\2024\2411Q
Data File : IL2.D
Date Inj'd : 11/5/2024 9:41 am
Sample : IL2,32,,2.0ng/mL lot# 1090

Method : SIM-RVT_241105_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 12/2/2024 11:36 am

Compound #32: Benzo[a]anthracene



Original Peak Response = 4823



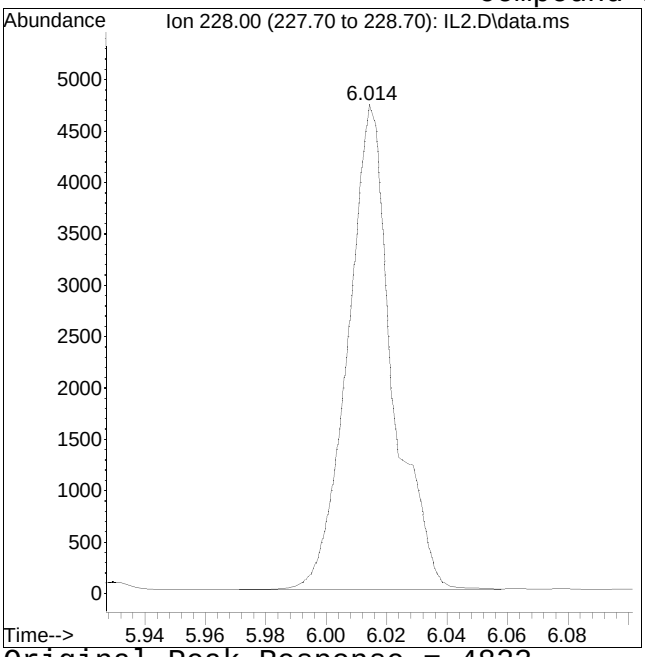
Manual Peak Response = 4239 M6

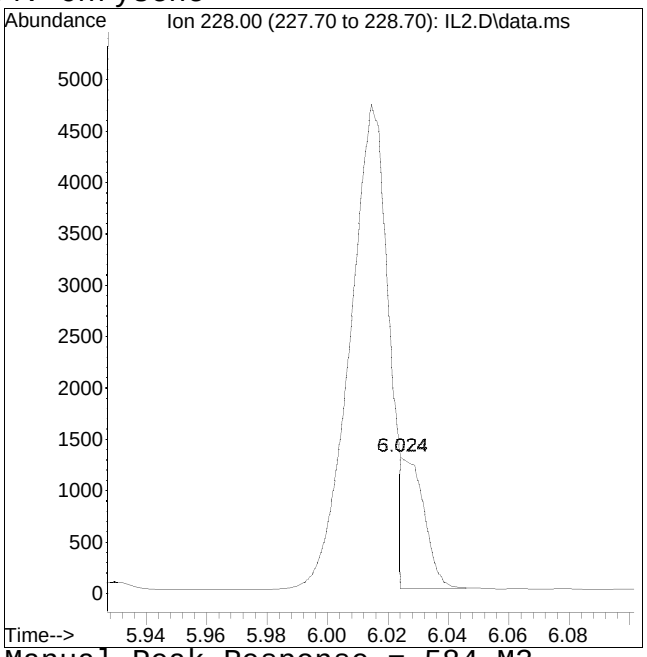
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL2.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 9:41 am Instrument : SV120
Sample : IL2,32,,2.0ng/mL lot# 1090Quant Date : 12/2/2024 11:36 am

Compound #34: Chrysene



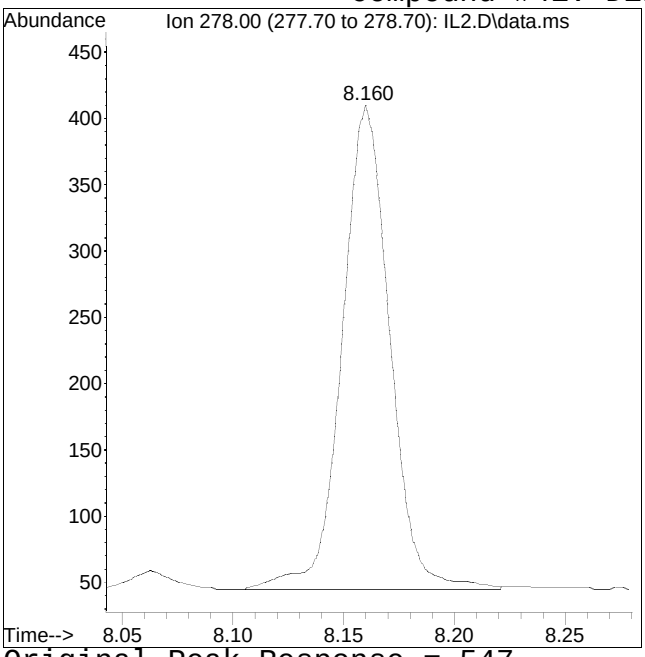


Original Peak Response = 4823 Manual Peak Response = 584 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

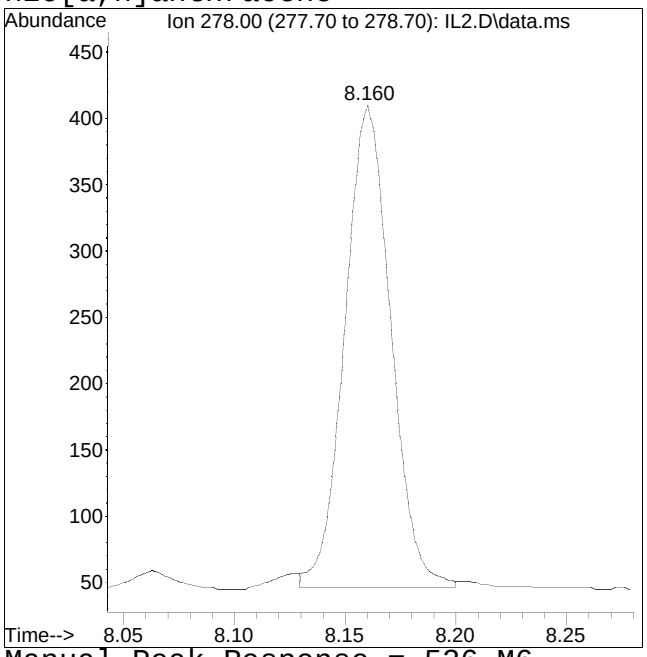
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL2.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 9:41 am Instrument : SV120
Sample : IL2,32,,2.0ng/mL lot# 1090Quant Date : 12/2/2024 11:36 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 547



Manual Peak Response = 526 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL1.D
Acq On : 05 Nov 2024 09:57 am
Operator : SV120:mrg
Sample : IL1,32,,1.0ng/mL lot# 10895
Misc : WG1993471
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 02 11:44:05 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.049	152	284403	4000.000	ng/ml	0.00
Standard Area 1 = 269340			Recovery = 105.59%			
8) Naphthalene-d8	2.692	136	1105345	4000.000	ng/ml	0.00
Standard Area 1 = 1055011			Recovery = 104.77%			
17) Acenaphthene-d10	3.657	164	659084	4000.000	ng/ml	0.00
Standard Area 1 = 611711			Recovery = 107.74%			
22) Phenanthrene-d10	4.493	188	1299114	4000.000	ng/ml	0.00
Standard Area 1 = 1165771			Recovery = 111.44%			
31) Chrysene-d12	6.013	240	1133436	4000.000	ng/ml	0.00
Standard Area 1 = 980774			Recovery = 115.57%			
36) Perylene-d12	7.071	264	1038005	4000.000	ng/ml	0.00
Standard Area 1 = 961303			Recovery = 107.98%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.506	112	84	1.004	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.05%#			
3) Phenol-d6	1.877	99	101	0.982	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.05%#			
7) Nitrobenzene-d5	2.323	82	92	1.013	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.10%#			
13) 2-Fluorobiphenyl	3.284	172	247	1.109	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.11%#			
21) 2,4,6-Tribromophenol	0.000	330	0	0.000	ng/ml	
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.00%#			
30) 4-Terphenyl-d14	5.405	244	295M4	1.249	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 0.06%#			
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.		
9) Naphthalene	0.000		0	N.D. d		
10) Hexachlorobutadiene	0.000		0	N.D. d		
11) 2-Methylnaphthalene	3.080	142	205	1.069	ng/ml	100
12) 1-Methylnaphthalene	3.131	142	185	1.048	ng/ml	98
14) 2-Chloronaphthalene	3.345	162	204	1.071	ng/ml	99
15) 2,6-Dinitrotoluene	0.000		0	N.D. d		
16) Acenaphthylene	3.576	152	279	1.016	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL1.D
Acq On : 05 Nov 2024 09:57 am
Operator : SV120:mrg
Sample : IL1,32,,1.0ng/mL lot# 10895
Misc : WG1993471
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 02 11:44:05 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18) Acenaphthene	3.673	153	222M4	1.116	ng/ml	
19) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
20) Fluorene	3.963	166	231	1.073	ng/ml	99
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
24) Hexachlorobenzene	0.000		0	N.D.	d	
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	4.503	178	259M3	0.837	ng/ml	
27) Anthracene	4.531	178	334	1.043	ng/ml	99
28) Fluoranthene	5.179	202	409	1.147	ng/ml#	90
29) Pyrene	5.306	202	416	1.131	ng/ml	99
32) Benzo[a]anthracene	6.013	228	3666M1	0.947	ng/ml	
33) 3,3'-Dichlorobenzidine	0.000		0	N.D.	d	
34) Chrysene	6.025	228	194M4	0.647	ng/ml	
35) Bis(2-ethylhexyl)phtha...	6.046	149	964	4.806	ng/ml	99
37) Benzo[b]fluoranthene	6.739	252	325	1.032	ng/ml	100
38) Benzo[k]fluoranthene	6.760	252	291	1.028	ng/ml	99
39) Benzo[a]pyrene	7.004	252	252	0.977	ng/ml	98
40) Indeno[1,2,3-cd]pyrene	8.123	276	256	0.970	ng/ml	99
41) Dibenzo[a,h]anthracene	8.157	278	243M6	0.981	ng/ml	
42) Benzo[g,h,i]perylene	8.419	276	259	1.011	ng/ml	97

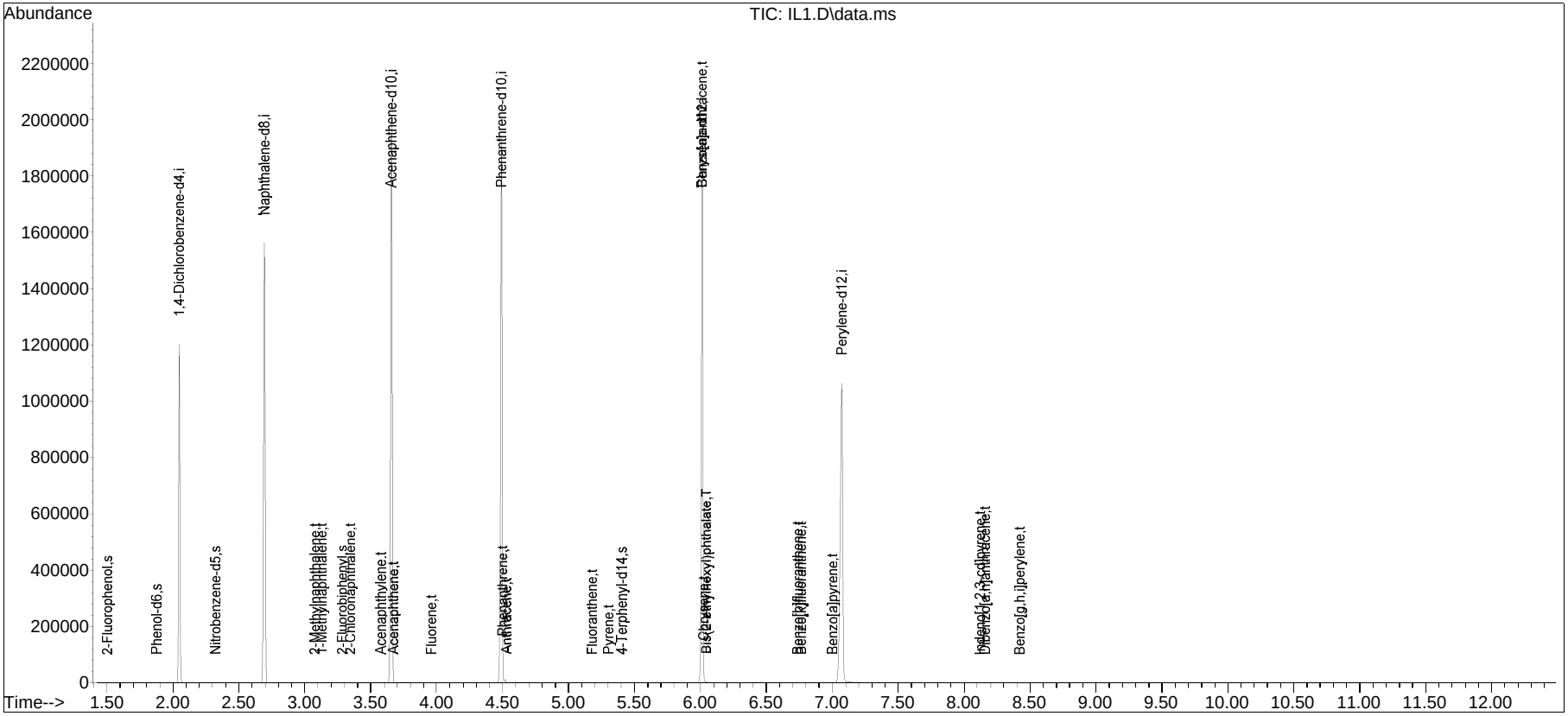
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : IL1.D
Acq On : 05 Nov 2024 09:57 am
Operator : SV120:mrg
Sample : IL1,32,,1.0ng/mL lot# 10895
Misc : WG1993471
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 02 11:44:05 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

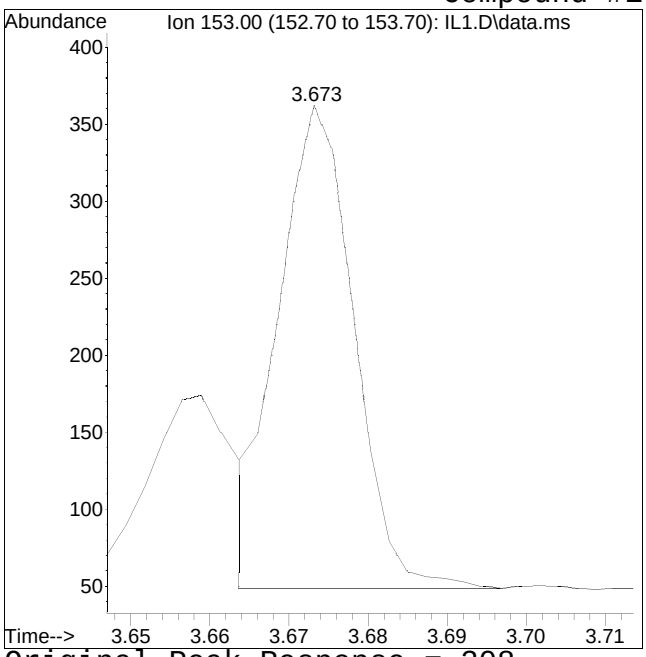
Sub List : Default - All compounds listed05RVTical\IL8.D•



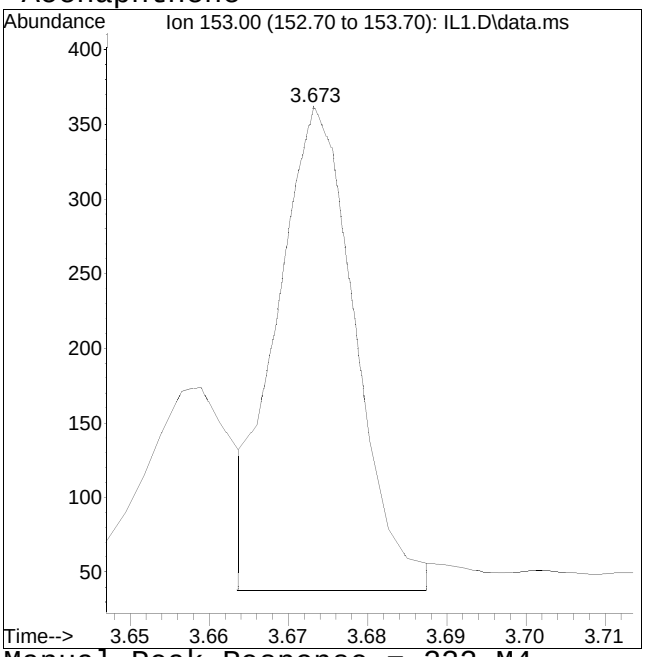
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL1.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 9:57 am Instrument : SV120
Sample : IL1,32,,1.0ng/mL lot# 1089Quant Date : 12/2/2024 11:36 am

Compound #18: Acenaphthene



Original Peak Response = 208



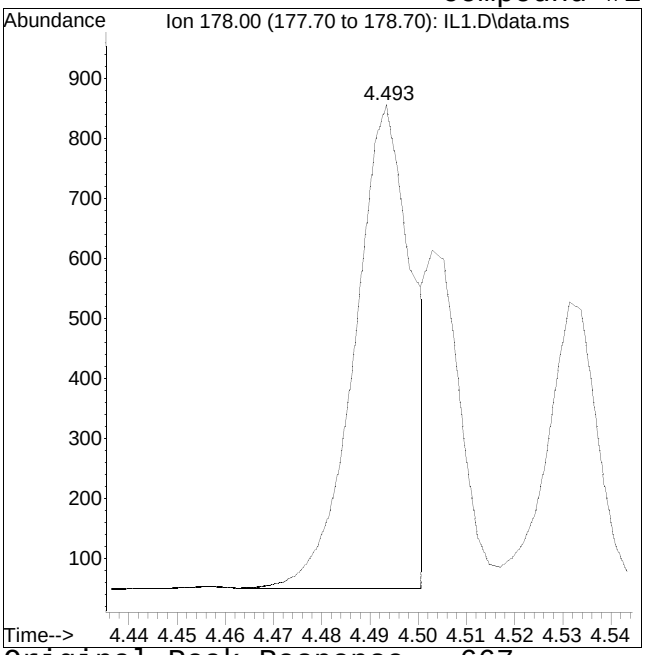
Manual Peak Response = 222 M4

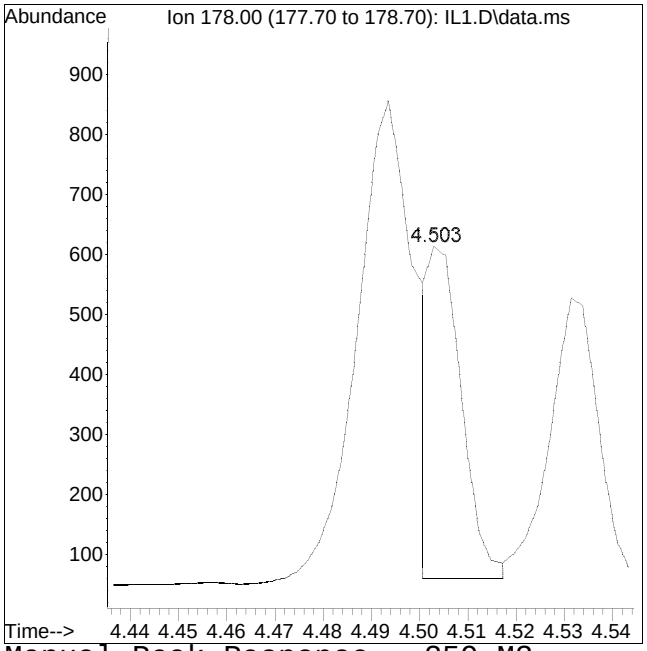
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL1.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 9:57 am Instrument : SV120
Sample : IL1,32,,1.0ng/mL lot# 1089Quant Date : 12/2/2024 11:36 am

Compound #26: Phenanthrene





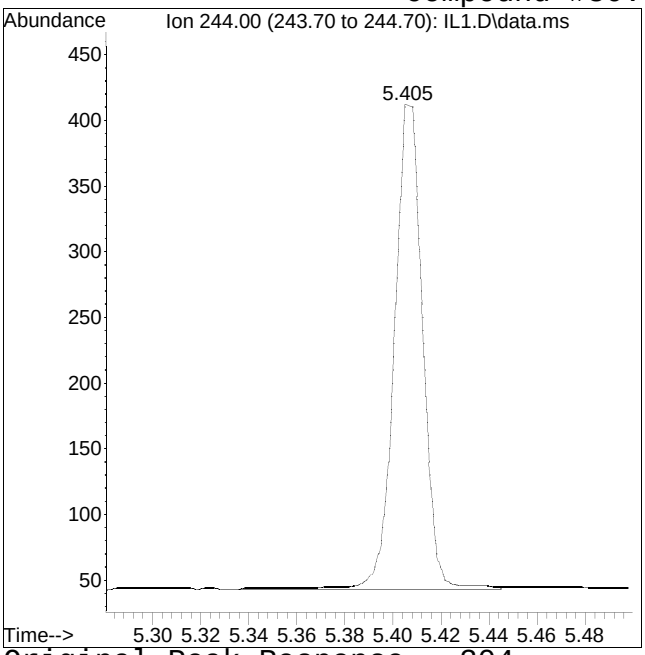
Original Peak Response = 667 Manual Peak Response = 259 M3

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.

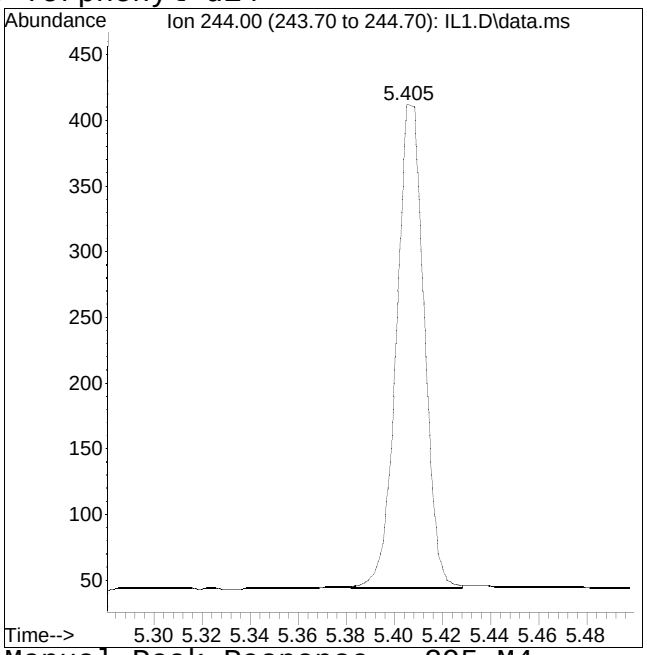
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL1.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 9:57 am Instrument : SV120
Sample : IL1,32,,1.0ng/mL lot# 1089Quant Date : 12/2/2024 11:36 am

Compound #30: 4-Terphenyl-d14



Original Peak Response = 304



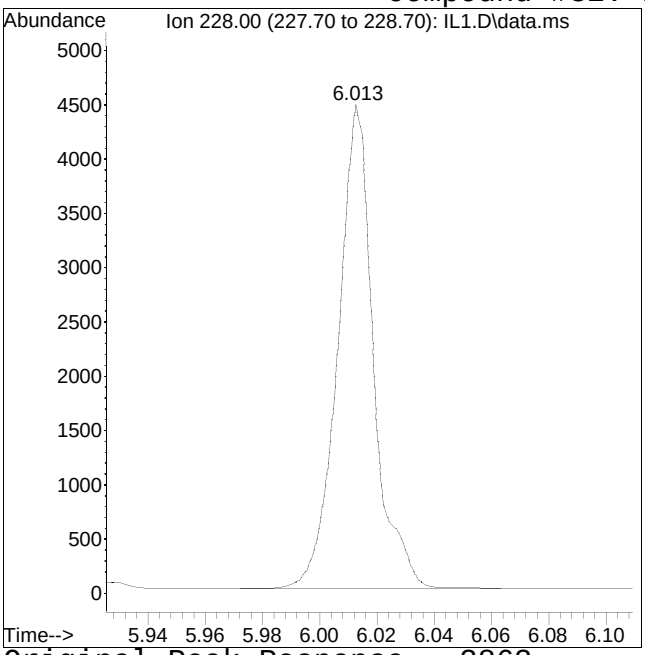
Manual Peak Response = 295 M4

M4 = Poor automated baseline construction.

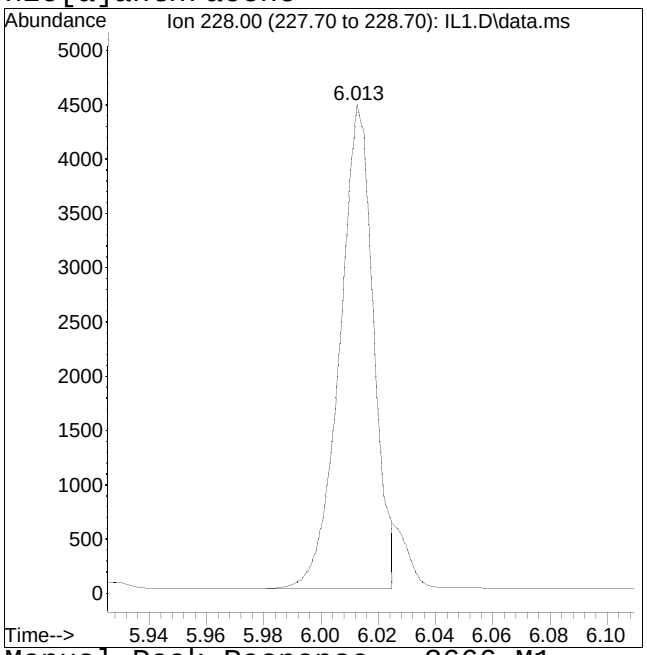
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL1.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 9:57 am Instrument : SV120
Sample : IL1,32,,1.0ng/mL lot# 1089Quant Date : 12/2/2024 11:36 am

Compound #32: Benzo[a]anthracene



Original Peak Response = 3863



Manual Peak Response = 3666 M1

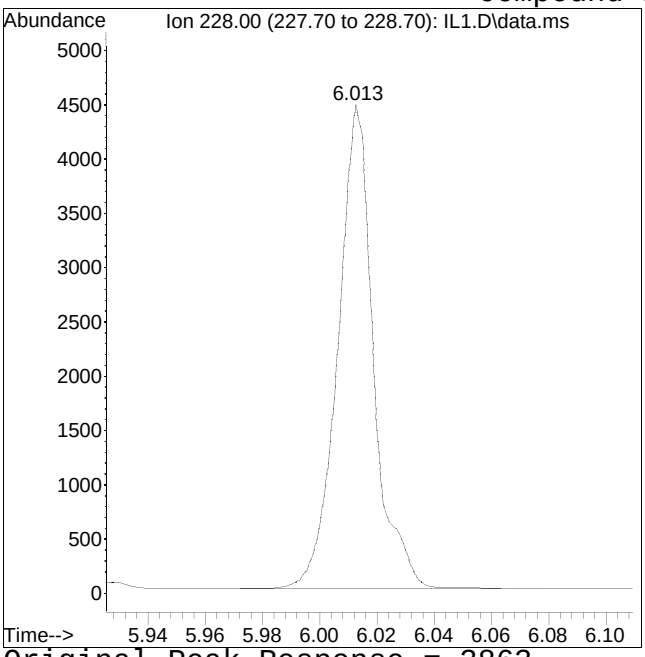
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

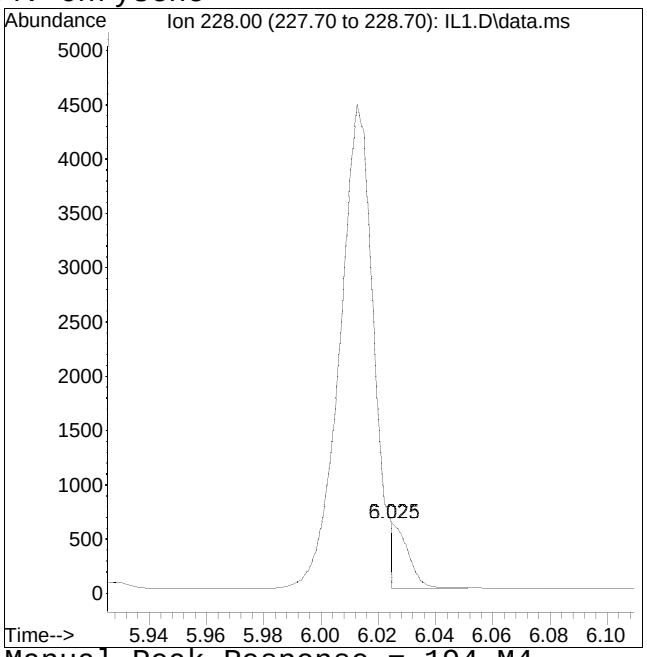
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411Q
Data File : IL1.D
Date Inj'd : 11/5/2024 9:57 am
Sample : IL1,32,,1.0ng/mL lot# 1089

Method : SIM-RVT_241105_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 12/2/2024 11:36 am

Compound #34: Chrysene



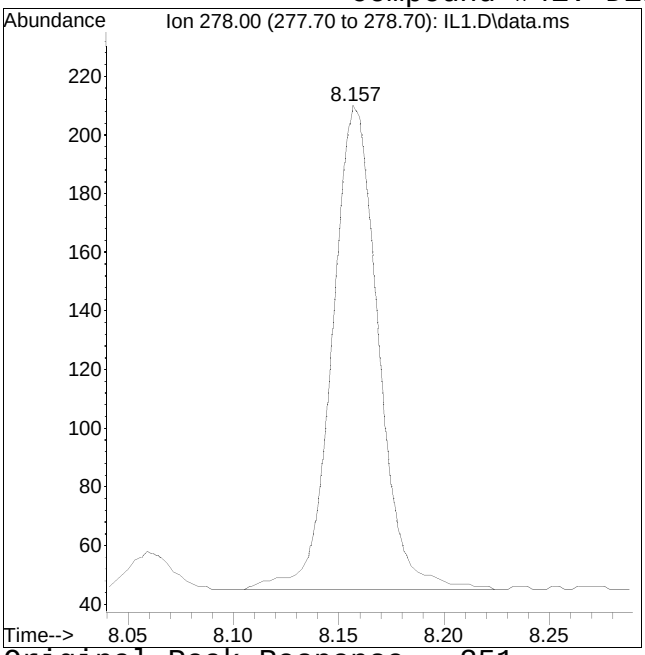


Original Peak Response = 3863 Manual Peak Response = 194 M4
M4 = Poor automated baseline construction.

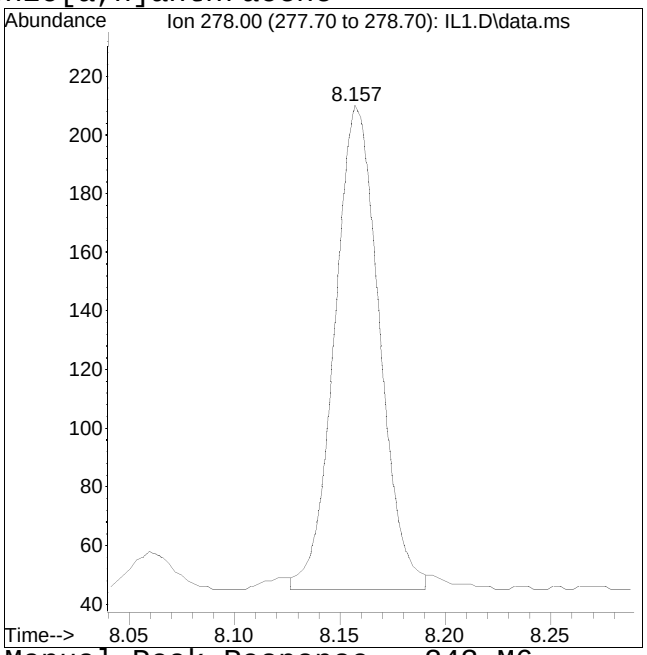
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : IL1.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 9:57 am Instrument : SV120
Sample : IL1,32,,1.0ng/mL lot# 1089Quant Date : 12/2/2024 11:36 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 251



Manual Peak Response = 243 M6

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

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : ICV.D
Acq On : 05 Nov 2024 10:13 am
Operator : SV120:mrg
Sample : CQICV,32,,1000.0ng/mL lot #10884
Misc : WG1993471
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 02 11:35:07 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	77	0.00
2	s	2-Fluorophenol	1.177	1.153	2.0	76	-0.01
3	s	Phenol-d6	1.447	1.394	3.7	74	0.00
4	T	Bis(2-chloroethyl)ether	*1000.000	910.140	9.0	73	0.00
5	T	n-nitrosodi-n-propylamine	0.873	0.801	8.2	71	0.00
6	t	Hexachloroethane	0.524	0.487	7.1	72	0.00
7	s	Nitrobenzene-d5	1.277	1.200	6.0	72	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	76	0.00
9	t	Naphthalene	1.000	0.900	10.0	73	0.00
10	t	Hexachlorobutadiene	0.189	0.174	7.9	73	0.00
11	t	2-Methylnaphthalene	0.694	0.649	6.5	74	0.00
12	t	1-Methylnaphthalene	0.639	0.592	7.4	74	0.00
13	s	2-Fluorobiphenyl	0.806	0.732	9.2	75	0.00
14	t	2-Chloronaphthalene	0.689	0.618	10.3	73	0.00
15	t	2,6-Dinitrotoluene	0.156	0.143	8.3	72	0.00
16	t	Acenaphthylene	0.994	0.944	5.0	74	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	78	0.00
18	t	Acenaphthene	1.207	1.087	9.9	74	0.00
19	t	2,4-Dinitrotoluene	0.336	0.330	1.8	73	0.00
20	t	Fluorene	1.306	1.199	8.2	74	0.00
21	s	2,4,6-Tribromophenol	0.159	0.169	-6.3	79	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	81	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	800.208	20.0	69	0.00
24	t	Hexachlorobenzene	0.211	0.190	10.0	76	0.00
25	t	Pentachlorophenol	*1000.000	941.664	5.8	78	0.00
26	t	Phenanthrene	0.953	0.914	4.1	77	0.00
27	t	Anthracene	0.986	0.930	5.7	77	0.00
28	t	Fluoranthene	1.098	1.040	5.3	81	0.00
29	t	Pyrene	1.132	1.102	2.7	83	0.00
30	s	4-Terphenyl-d14	0.727	0.708	2.6	83	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	89	0.00
32	t	Benzo[a]anthracene	*1000.000	931.400	6.9	85	0.00
33	t	3,3'-Dichlorobenzidine	0.432	0.452	-4.6	91	0.00
34	t	Chrysene	1.059	1.093	-3.2	86	0.00
35	T	Bis(2-ethylhexyl)phthalate	0.708	0.678	4.2	84	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : ICV.D
Acq On : 05 Nov 2024 10:13 am
Operator : SV120:mrg
Sample : CQICV,32,,1000.0ng/mL lot #10884
Misc : WG1993471
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 02 11:35:07 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	94	0.00
37	t	Benzo[b]fluoranthene	1.214	1.125	7.3	91	0.00
38	t	Benzo[k]fluoranthene	1.091	1.042	4.5	87	0.00
39	t	Benzo[a]pyrene	0.994	0.982	1.2	91	0.00
40	t	Indeno[1,2,3-cd]pyrene	1.017	0.997	2.0	91	0.00
41	t	Dibenzo[a,h]anthracene	0.955	0.944	1.2	93	0.00
42	t	Benzo[g,h,i]perylene	0.987	0.959	2.8	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:\8270SIM\sv120\2024\241105RVTical\
Data File : ICV.D
Acq On : 05 Nov 2024 10:13 am
Operator : SV120:mrg
Sample : CQICV,32,,1000.0ng/mL lot #10884
Misc : WG1993471
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 02 11:35:07 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.047	152	206472	4000.000	ng/ml	0.00
Standard Area 1 = 269340			Recovery = 76.66%			
8) Naphthalene-d8	2.691	136	804844	4000.000	ng/ml	0.00
Standard Area 1 = 1055011			Recovery = 76.29%			
17) Acenaphthene-d10	3.658	164	476077	4000.000	ng/ml	0.00
Standard Area 1 = 611711			Recovery = 77.83%			
22) Phenanthrene-d10	4.494	188	943391	4000.000	ng/ml	0.00
Standard Area 1 = 1165771			Recovery = 80.92%			
31) Chrysene-d12	6.016	240	876754	4000.000	ng/ml	0.00
Standard Area 1 = 980774			Recovery = 89.39%			
36) Perylene-d12	7.073	264	908325	4000.000	ng/ml	0.00
Standard Area 1 = 961303			Recovery = 94.49%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.491	112	59529	979.648	ng/ml	-0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 48.98%			
3) Phenol-d6	1.873	99	71980	963.903	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 48.20%			
7) Nitrobenzene-d5	2.319	82	61943	939.610	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 93.96%			
13) 2-Fluorobiphenyl	3.284	172	147269	907.830	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 90.78%			
21) 2,4,6-Tribromophenol	4.099	330	20136	1062.496	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 53.12%			
30) 4-Terphenyl-d14	5.407	244	167094	974.085	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 48.70%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.922	93	57941	910.140	ng/ml	99
5) n-nitrosodi-n-propylamine	2.246	70	41367	918.502	ng/ml	100
6) Hexachloroethane	2.293	117	25118	929.244	ng/ml	100
9) Naphthalene	2.701	128	181157	900.410	ng/ml	100
10) Hexachlorobutadiene	2.775	225	35082	920.241	ng/ml	100
11) 2-Methylnaphthalene	3.079	142	130487	934.188	ng/ml	100
12) 1-Methylnaphthalene	3.131	142	119040	926.544	ng/ml	100
14) 2-Chloronaphthalene	3.345	162	124383	897.047	ng/ml	100
15) 2,6-Dinitrotoluene	3.546	165	28850	919.233	ng/ml	97
16) Acenaphthylene	3.575	152	189901	949.907	ng/ml	100
18) Acenaphthene	3.674	153	129351	900.147	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : ICV.D
Acq On : 05 Nov 2024 10:13 am
Operator : SV120:mrg
Sample : CQICV,32,,1000.0ng/mL lot #10884
Misc : WG1993471
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 02 11:35:07 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\2024\241105RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.772	165	39315	982.638	ng/ml	97
20) Fluorene	3.961	166	142652	917.438	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.000	198	22203	800.208	ng/ml	99
24) Hexachlorobenzene	4.280	284	44697	896.959	ng/ml	100
25) Pentachlorophenol	4.391	266	25675	941.664	ng/ml	100
26) Phenanthrene	4.505	178	215532	958.717	ng/ml	100
27) Anthracene	4.532	178	219278	942.743	ng/ml	100
28) Fluoranthene	5.178	202	245243	947.125	ng/ml	100
29) Pyrene	5.307	202	259868	973.278	ng/ml	99
32) Benzo[a]anthracene	6.006	228	251011	931.400	ng/ml	99
33) 3,3'-Dichlorobenzidine	6.001	252	99042	1045.050	ng/ml	100
34) Chrysene	6.028	228	239672	1032.570	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.049	149	148592	957.745	ng/ml	100
37) Benzo[b]fluoranthene	6.740	252	255448	926.828	ng/ml	100
38) Benzo[k]fluoranthene	6.765	252	236705	955.330	ng/ml	100
39) Benzo[a]pyrene	7.009	252	222935	987.522	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.131	276	226414	980.823	ng/ml	100
41) Dibenzo[a,h]anthracene	8.168	278	214255M6	987.983	ng/ml	
42) Benzo[g,h,i]perylene	8.430	276	217730	971.223	ng/ml	99

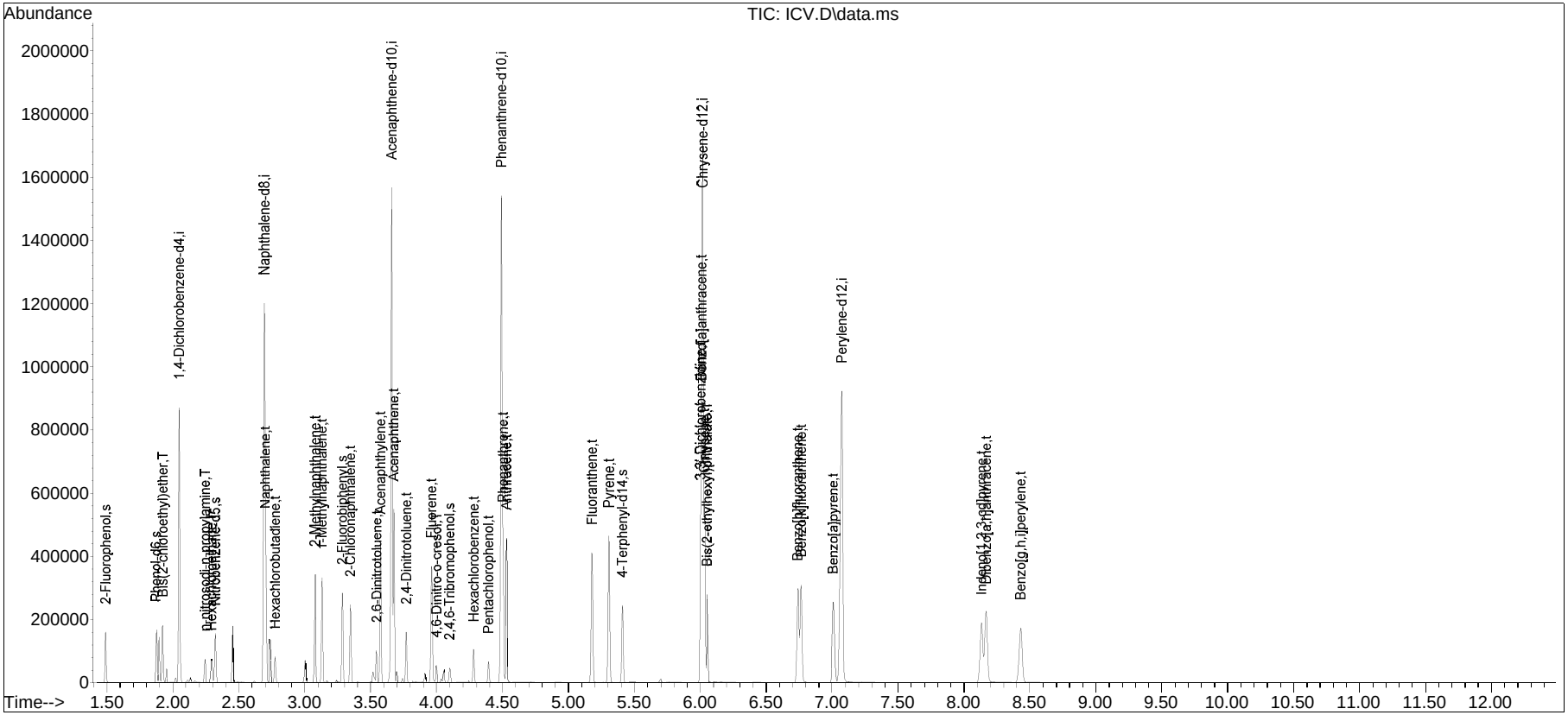
(#) = qualifier out of range (m) = manual integration (+) = signals summed

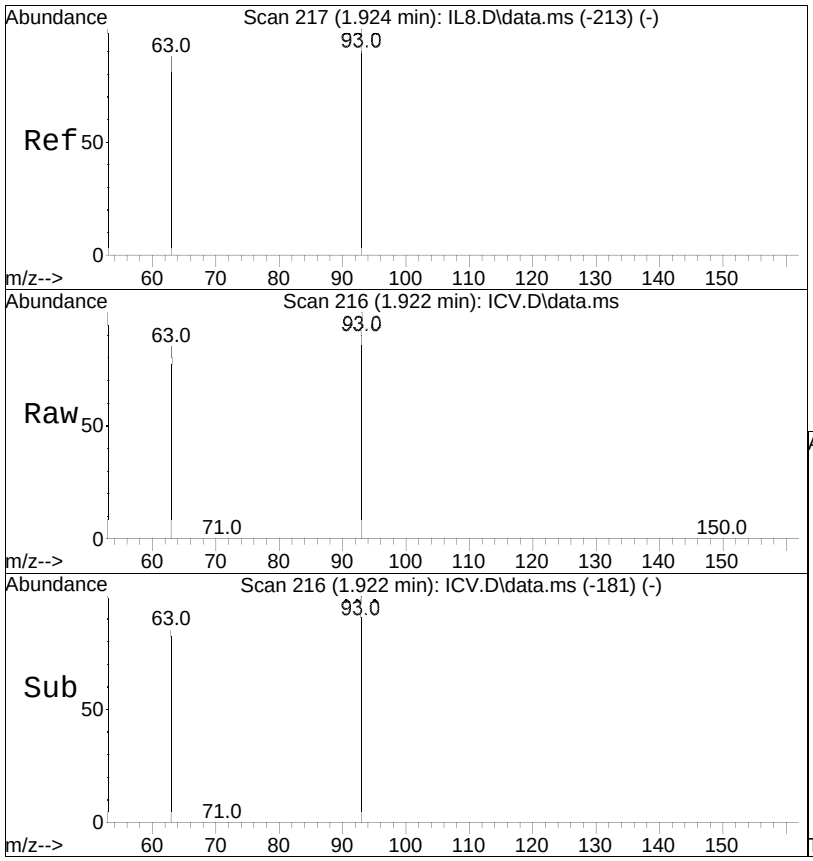
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\2024\241105RVTical\
Data File : ICV.D
Acq On : 05 Nov 2024 10:13 am
Operator : SV120:mrg
Sample : CQICV,32,,1000.0ng/mL lot #10884
Misc : WG1993471
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 02 11:35:07 2024
Quant Method : I:\8270SIM\sv120\2024\241105RVTical\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 02 11:36:17 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed05RVTical\IL8.D•

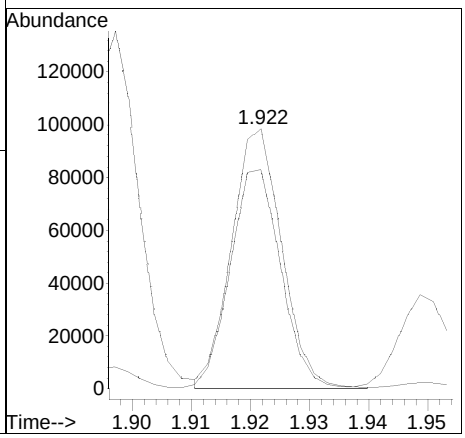


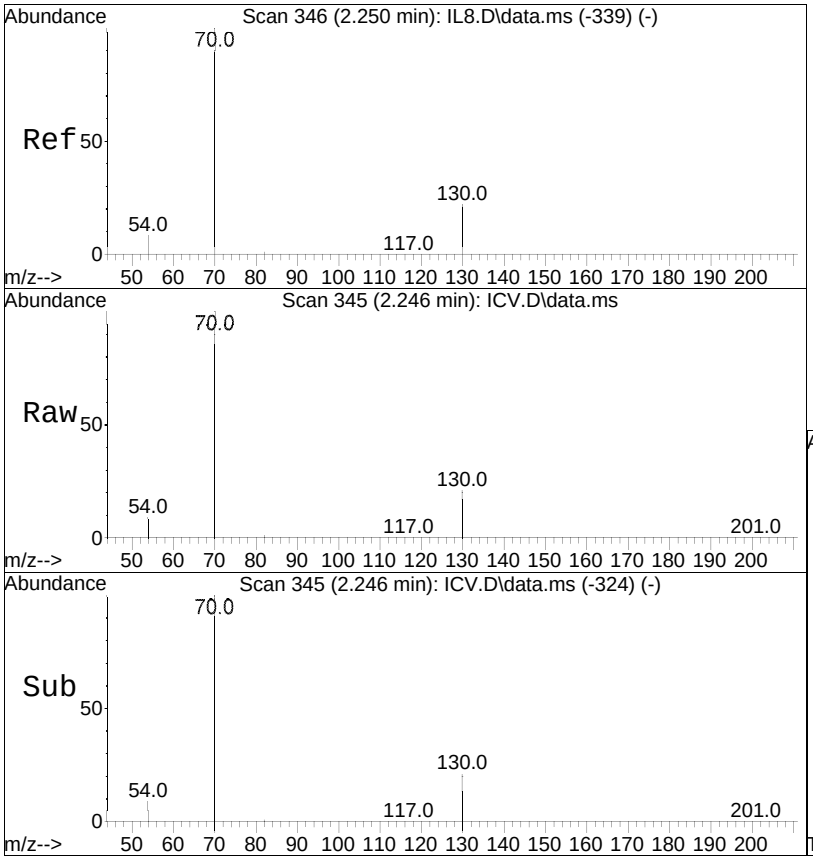


#4
Bis(2-chloroethyl)ether
Concen: 910.14 ng/ml
RT: 1.922 min Scan# 216
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion: 93 Resp: 57941

Ion	Ratio	Lower	Upper
93	100		
63	85.4	68.7	103.1

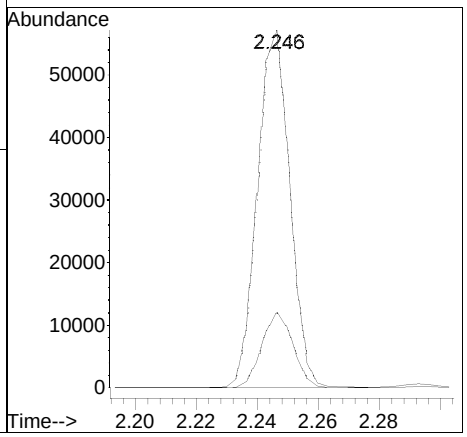


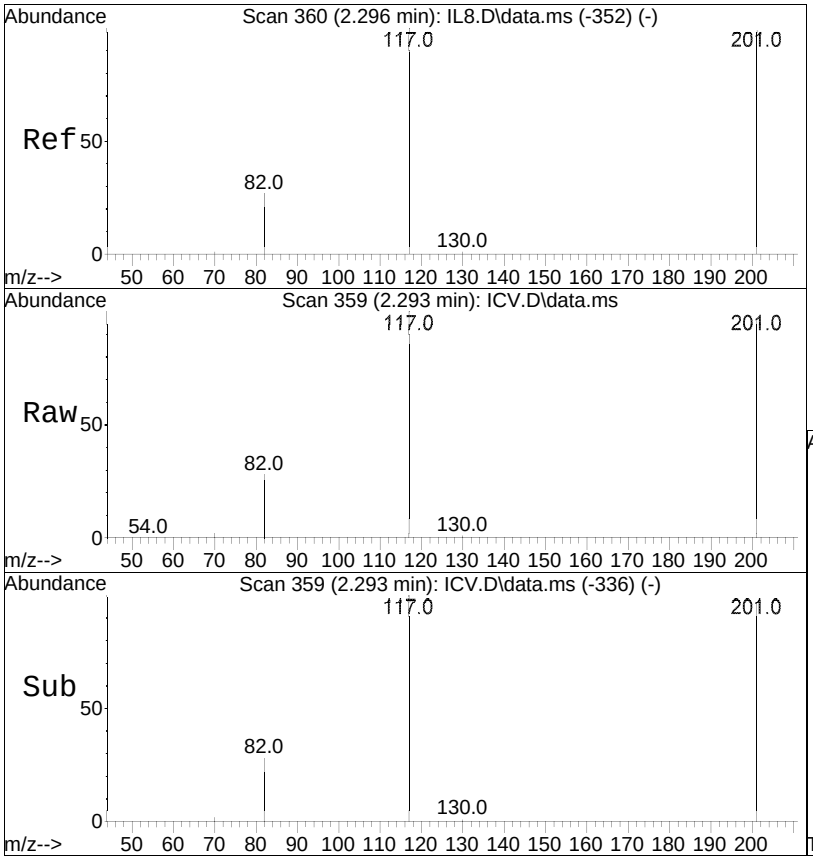


#5
n-nitrosodi-n-propylamine
Concen: 918.50 ng/ml
RT: 2.246 min Scan# 345
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion: 70 Resp: 41367

Ion	Ratio	Lower	Upper
70	100		
130	20.5	16.6	24.8

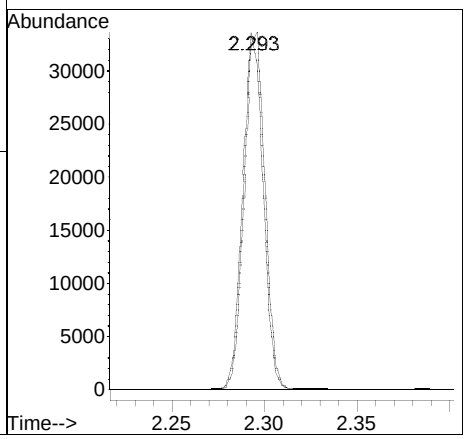


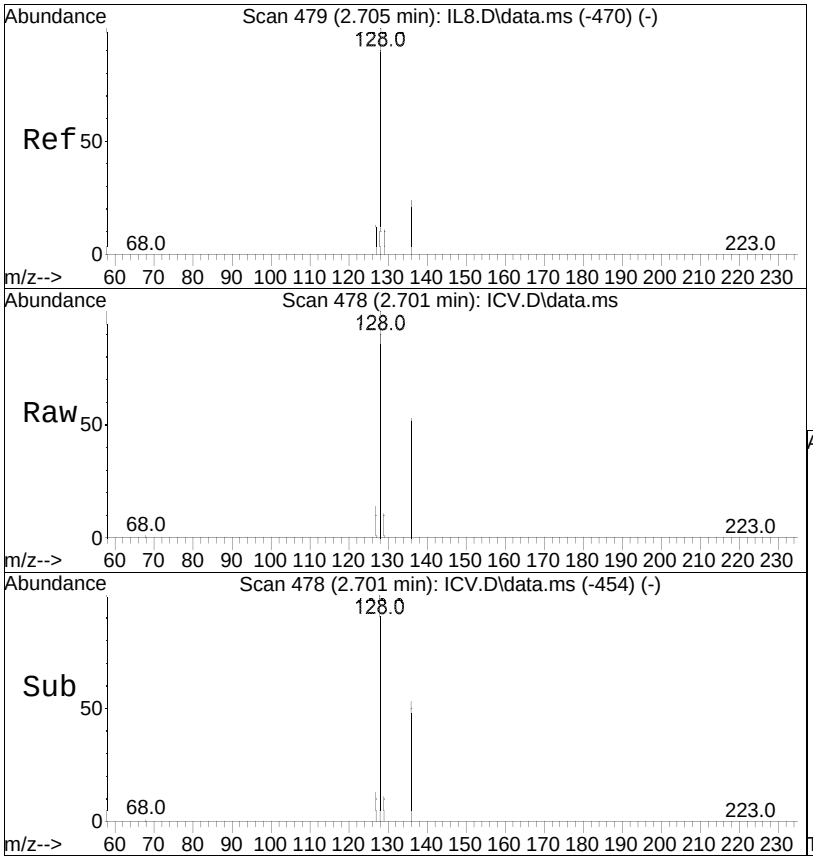


#6
Hexachloroethane
Concen: 929.24 ng/ml
RT: 2.293 min Scan# 359
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:117 Resp: 25118

Ion	Ratio	Lower	Upper
117	100		
201	102.2	82.0	123.0

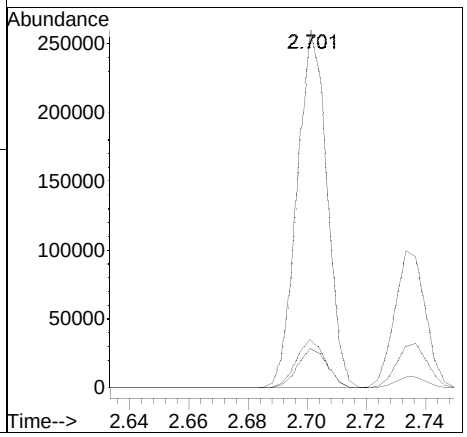


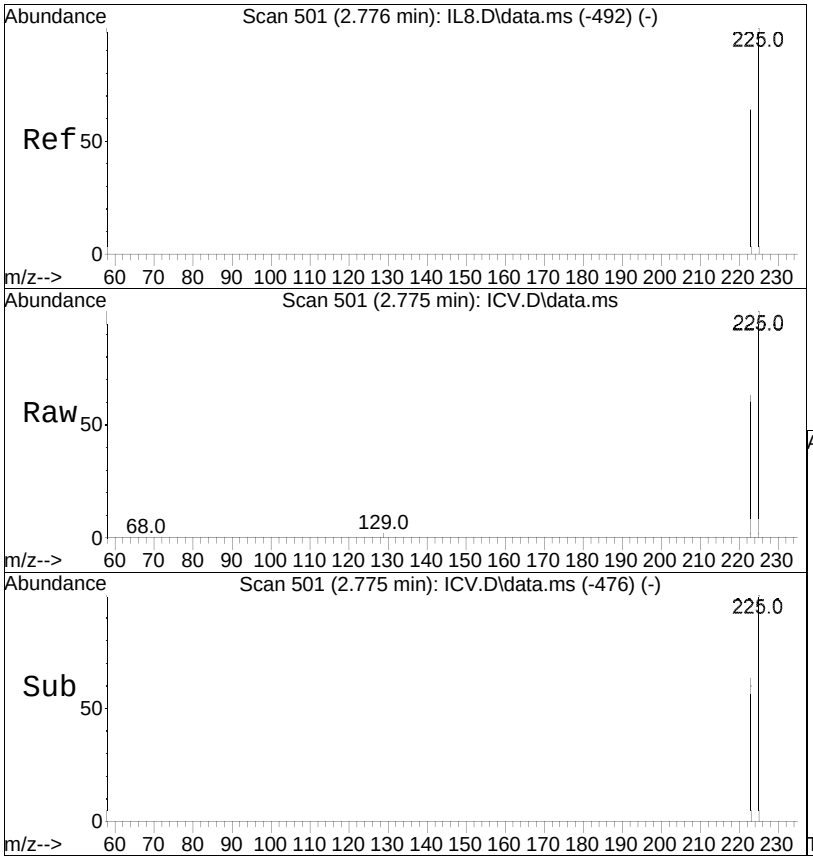


#9
Naphthalene
Concen: 900.41 ng/ml
RT: 2.701 min Scan# 478
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:128 Resp: 181157

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.4	10.7	16.1

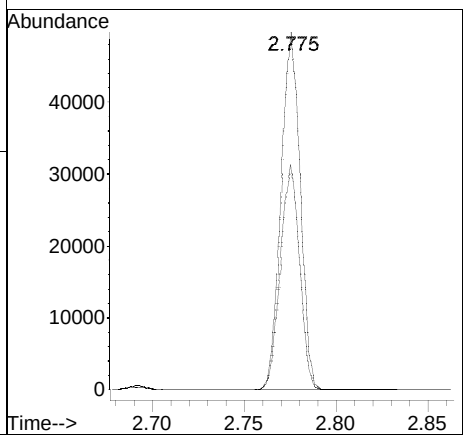


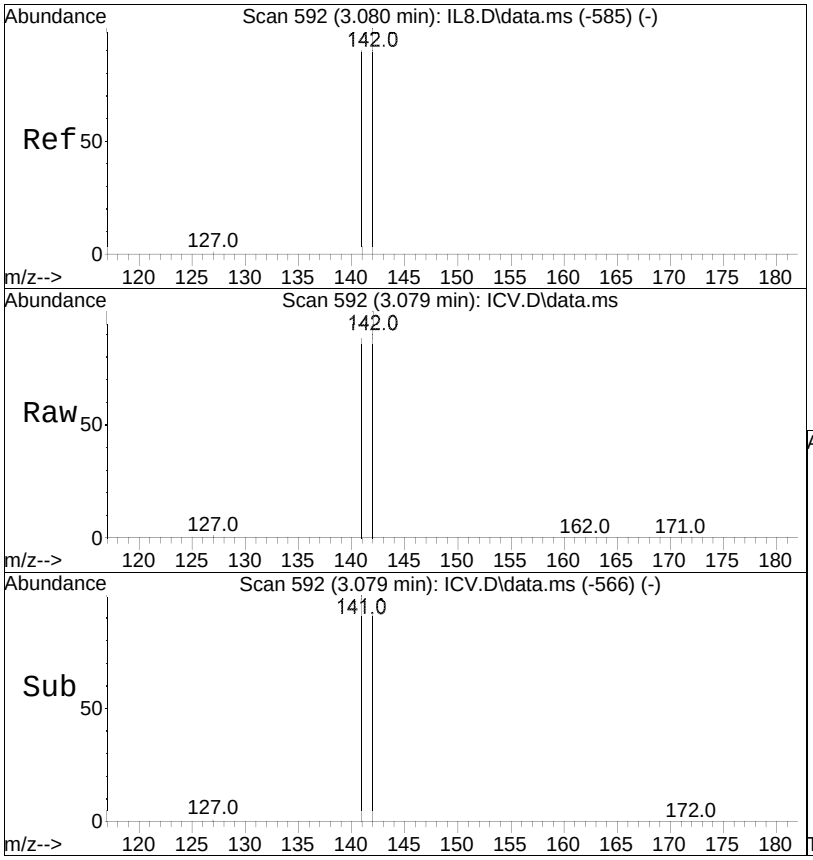


#10
Hexachlorobutadiene
Concen: 920.24 ng/ml
RT: 2.775 min Scan# 501
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:225 Resp: 35082

Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.5	75.7

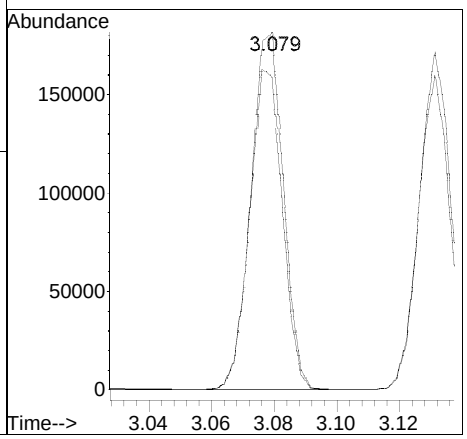


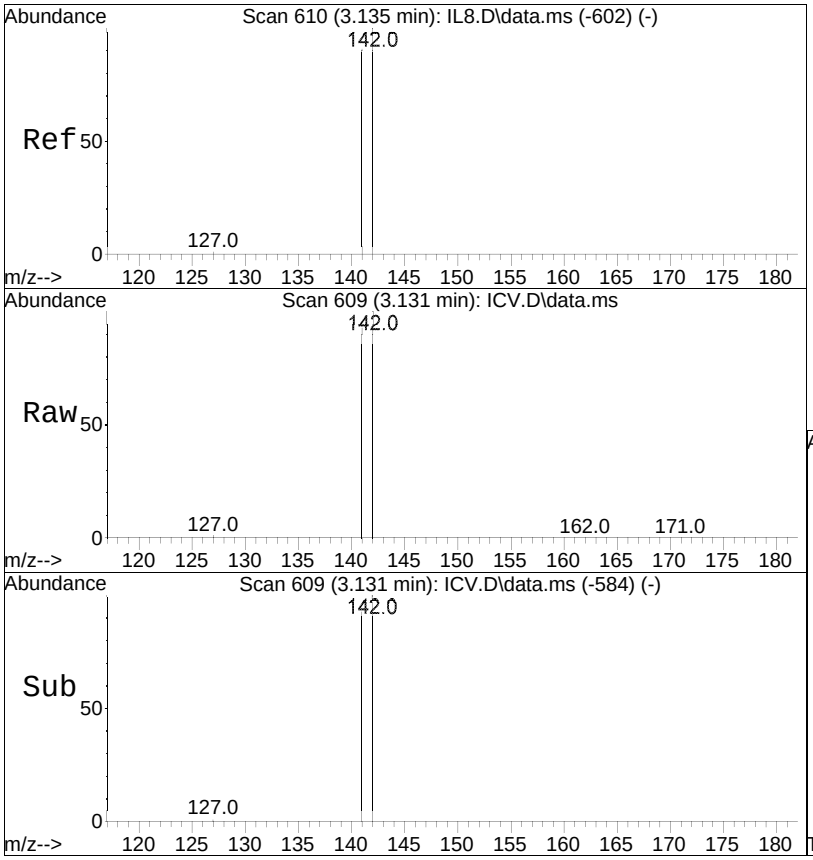


#11
2-Methylnaphthalene
Concen: 934.19 ng/ml
RT: 3.079 min Scan# 592
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:142 Resp: 130487

Ion	Ratio	Lower	Upper
142	100		
141	90.1	72.2	108.2

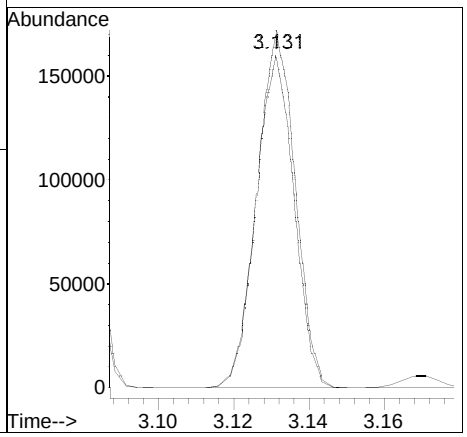


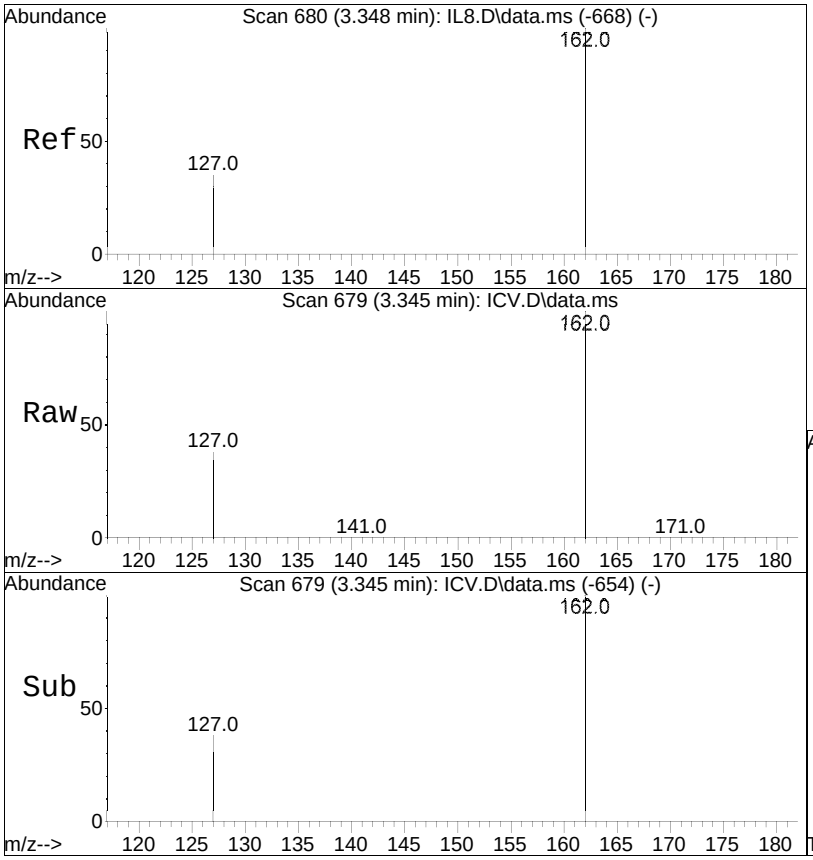


#12
1-Methylnaphthalene
Concen: 926.54 ng/ml
RT: 3.131 min Scan# 609
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:142 Resp: 119040

Ion	Ratio	Lower	Upper
142	100		
141	93.2	74.6	112.0

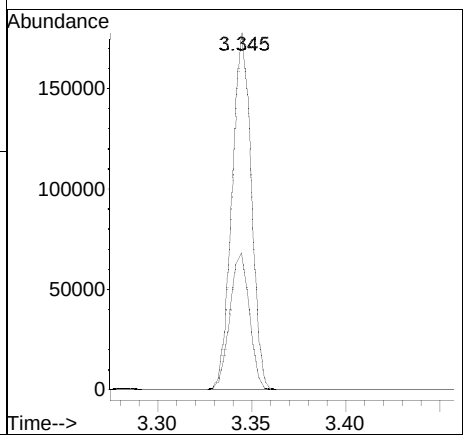


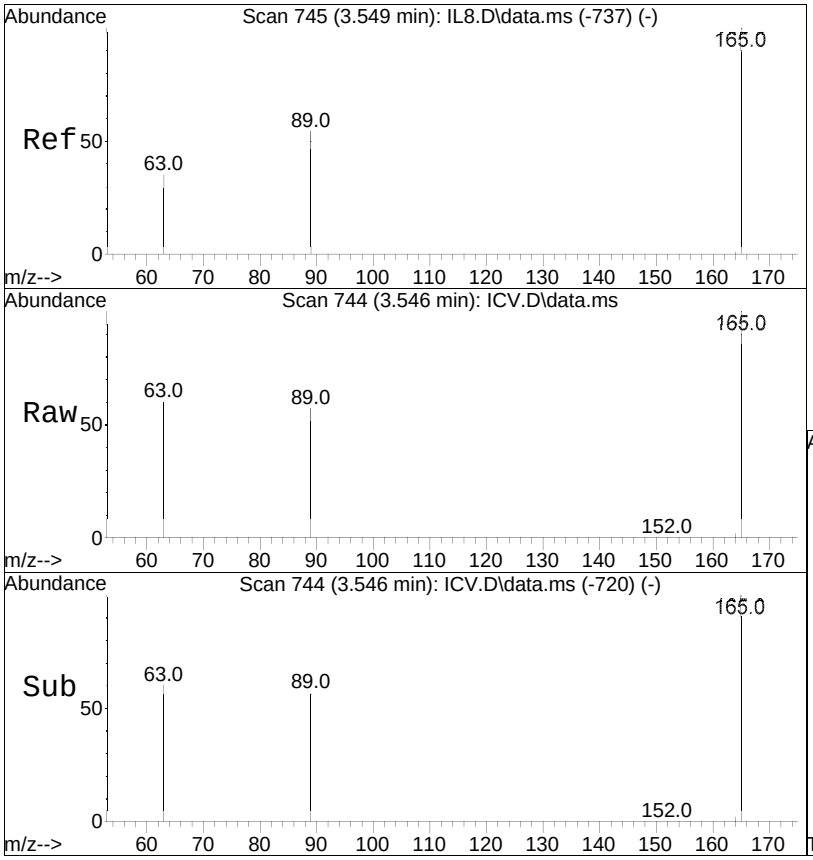


#14
2-Chloronaphthalene
Concen: 897.05 ng/ml
RT: 3.345 min Scan# 679
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:162 Resp: 124383

Ion	Ratio	Lower	Upper
162	100		
127	38.9	31.0	46.4

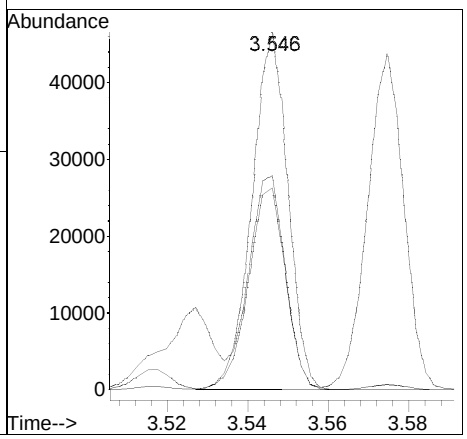


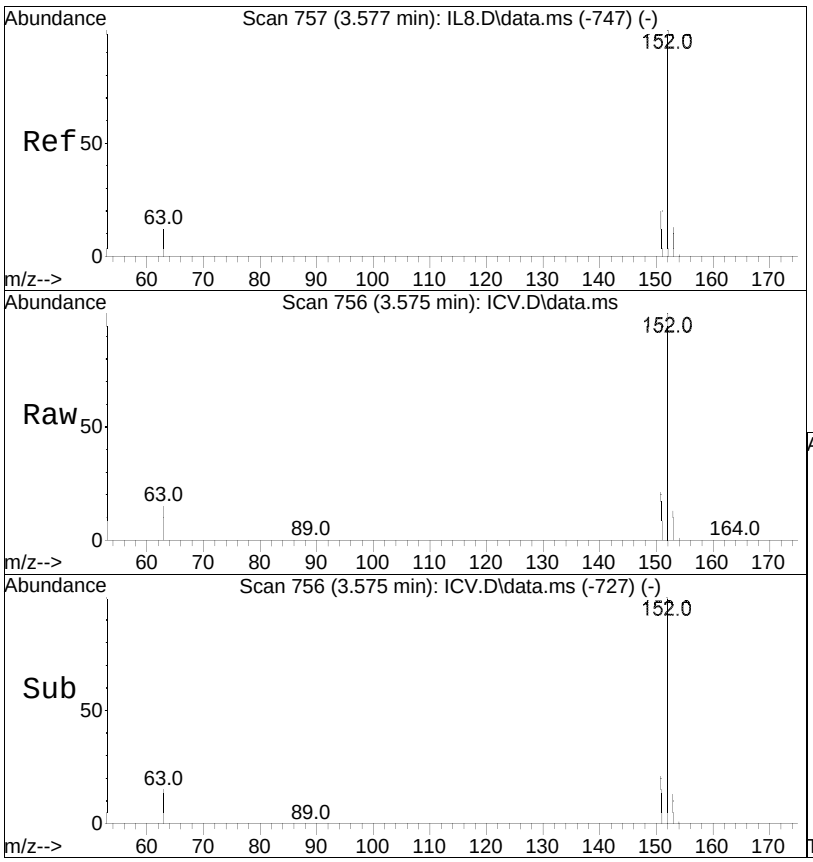


#15
2,6-Dinitrotoluene
Concen: 919.23 ng/ml
RT: 3.546 min Scan# 744
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:165 Resp: 28850

Ion	Ratio	Lower	Upper
165	100		
89	58.5	45.8	68.8
63	60.8	46.3	69.5

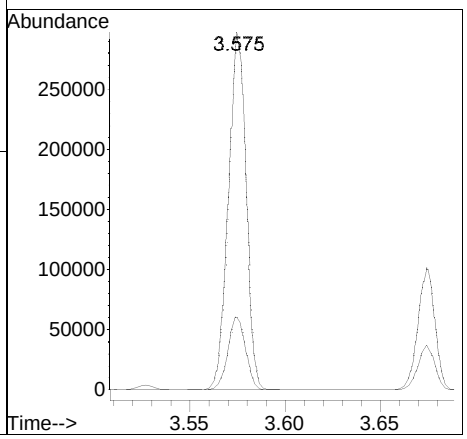


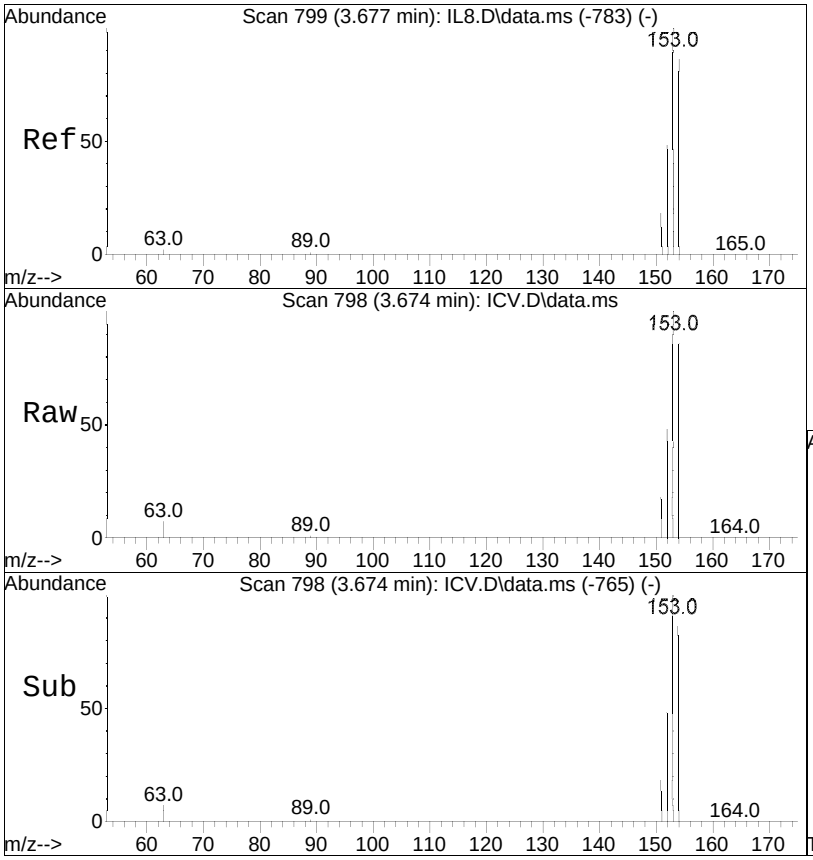


#16
Acenaphthylene
Concen: 949.91 ng/ml
RT: 3.575 min Scan# 756
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:152 Resp: 189901

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.4	24.6

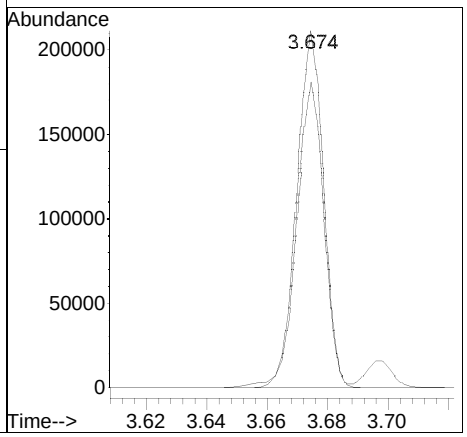


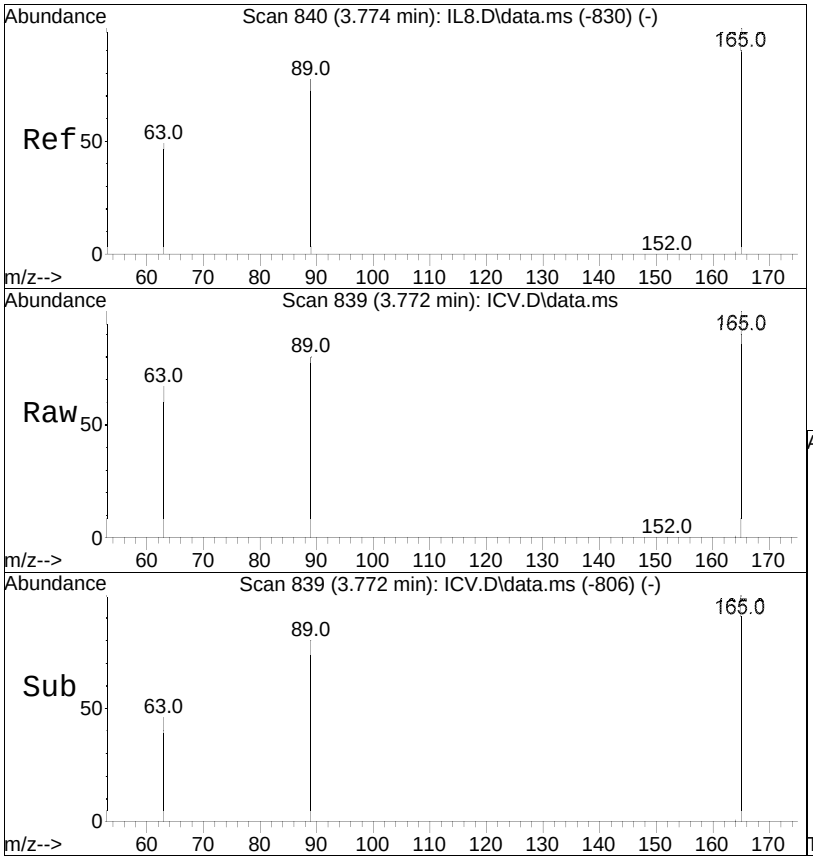


#18
Acenaphthene
Concen: 900.15 ng/ml
RT: 3.674 min Scan# 798
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:153 Resp: 129351

Ion	Ratio	Lower	Upper
153	100		
154	87.1	69.8	104.6

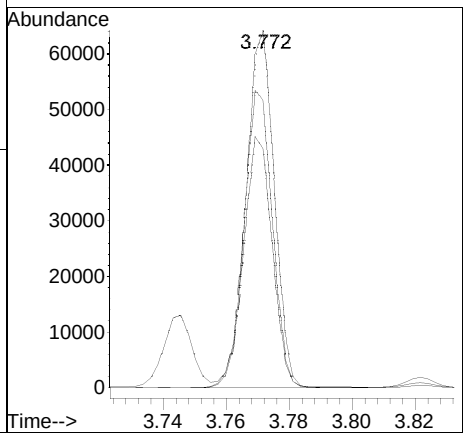


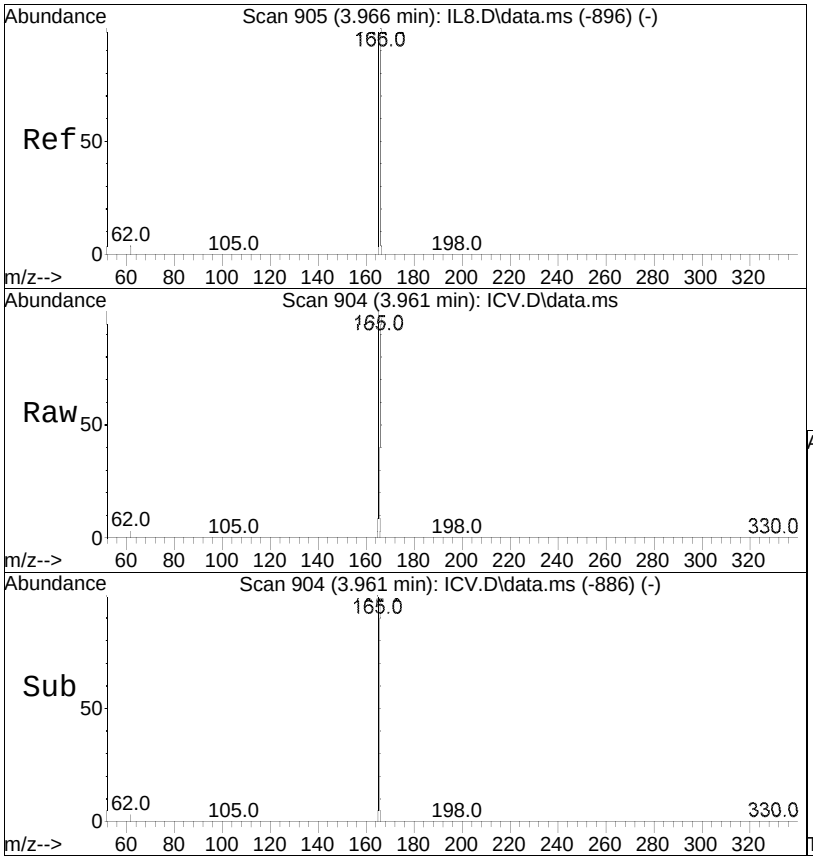


#19
2,4-Dinitrotoluene
Concen: 982.64 ng/ml
RT: 3.772 min Scan# 839
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:165 Resp: 39315

Ion	Ratio	Lower	Upper
165	100		
89	84.5	65.9	98.9
63	71.8	55.7	83.5

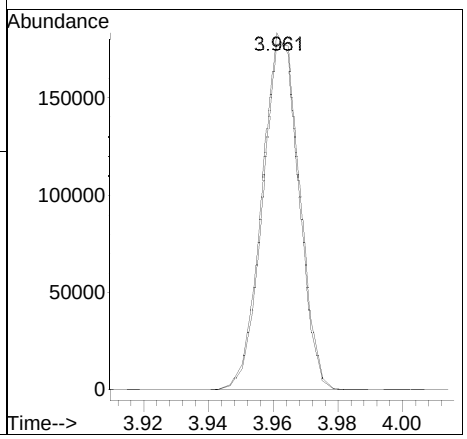


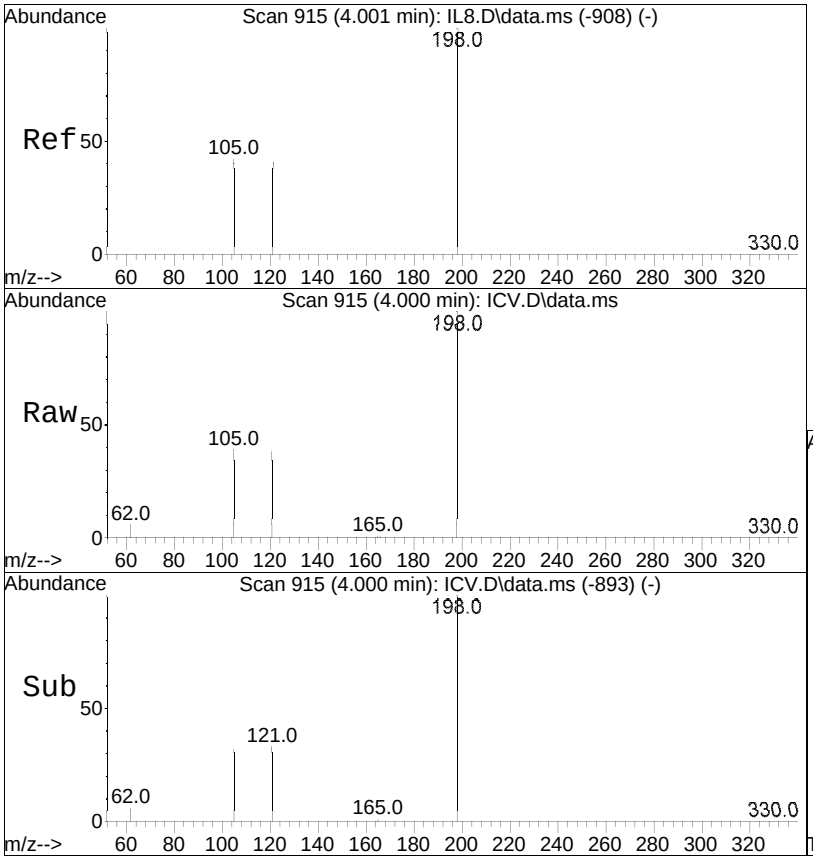


#20
Fluorene
Concen: 917.44 ng/ml
RT: 3.961 min Scan# 904
Delta R.T. -0.005 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:166 Resp: 142652

Ion	Ratio	Lower	Upper
166	100		
165	100.8	80.1	120.1

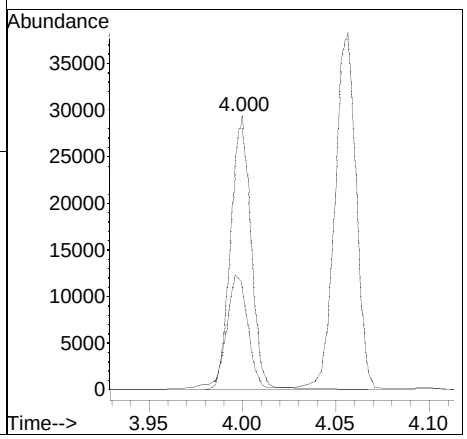


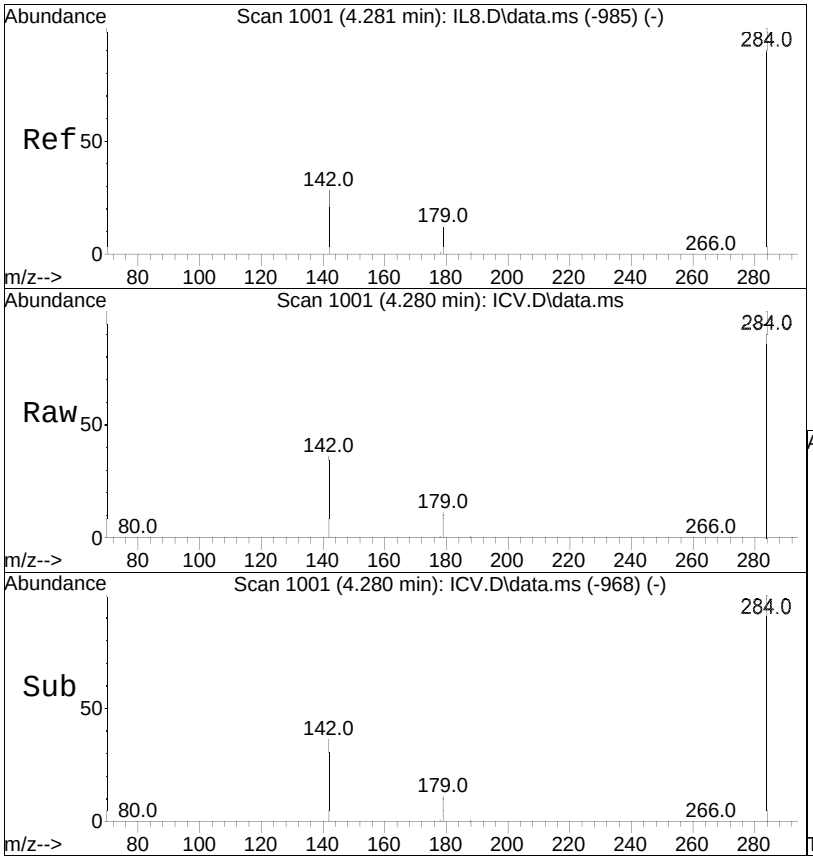


#23
4,6-Dinitro-o-cresol
Concen: 800.21 ng/ml
RT: 4.000 min Scan# 915
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:198 Resp: 22203

Ion	Ratio	Lower	Upper
198	100		
105	44.8	35.4	53.2

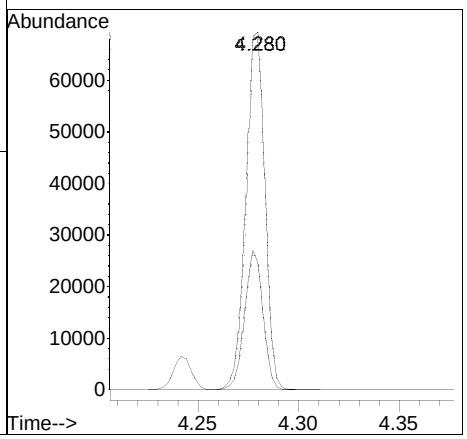


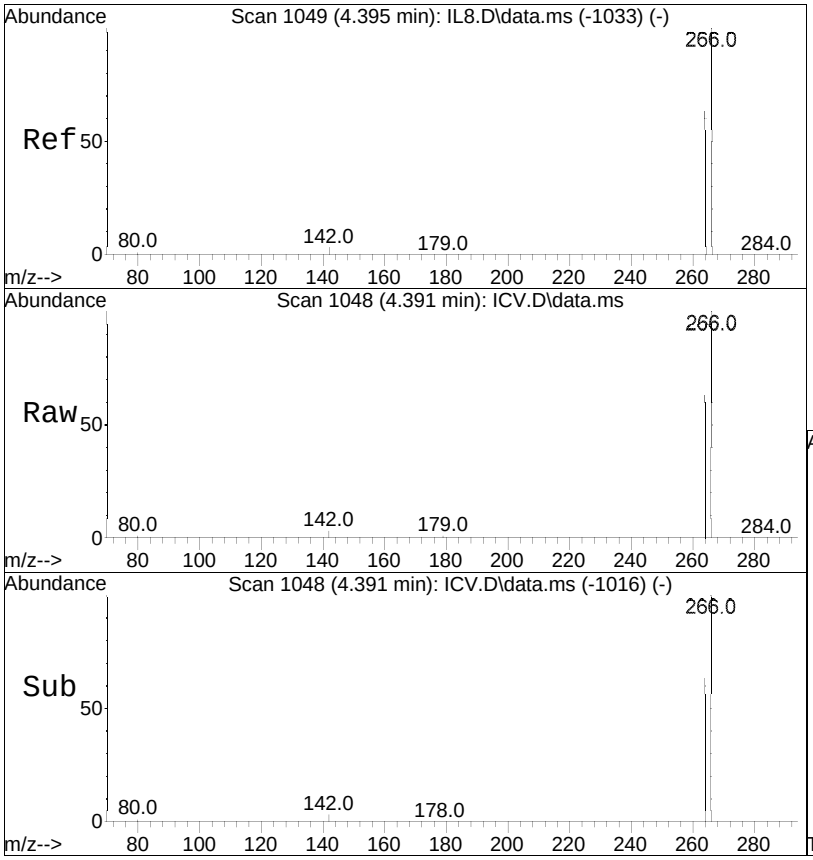


#24
Hexachlorobenzene
Concen: 896.96 ng/ml
RT: 4.280 min Scan# 1001
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:284 Resp: 44697

Ion	Ratio	Lower	Upper
284	100		
142	37.8	30.2	45.2

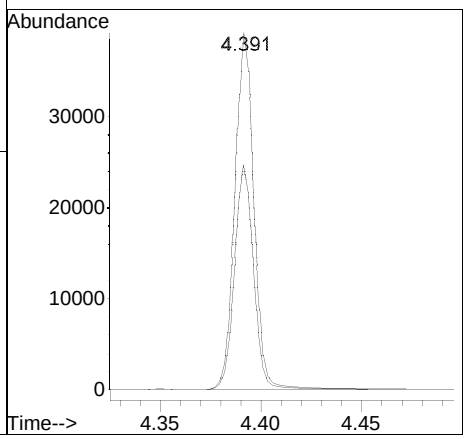


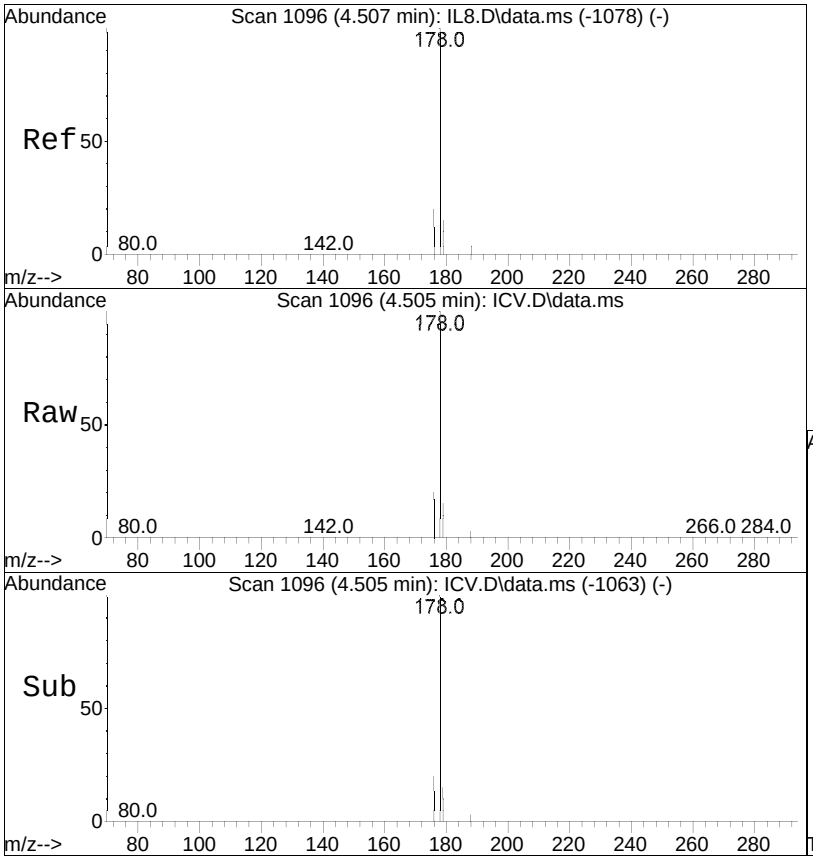


#25
Pentachlorophenol
Concen: 941.66 ng/ml
RT: 4.391 min Scan# 1048
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:266 Resp: 25675

Ion	Ratio	Lower	Upper
266	100		
264	63.1	50.3	75.5

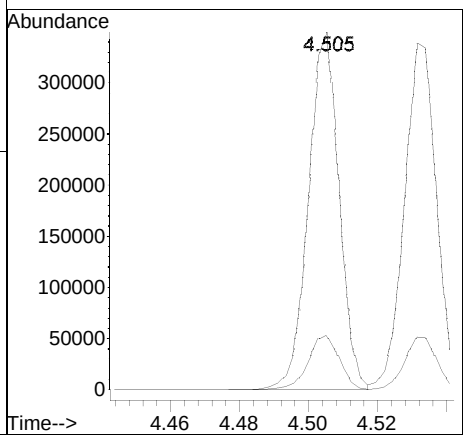


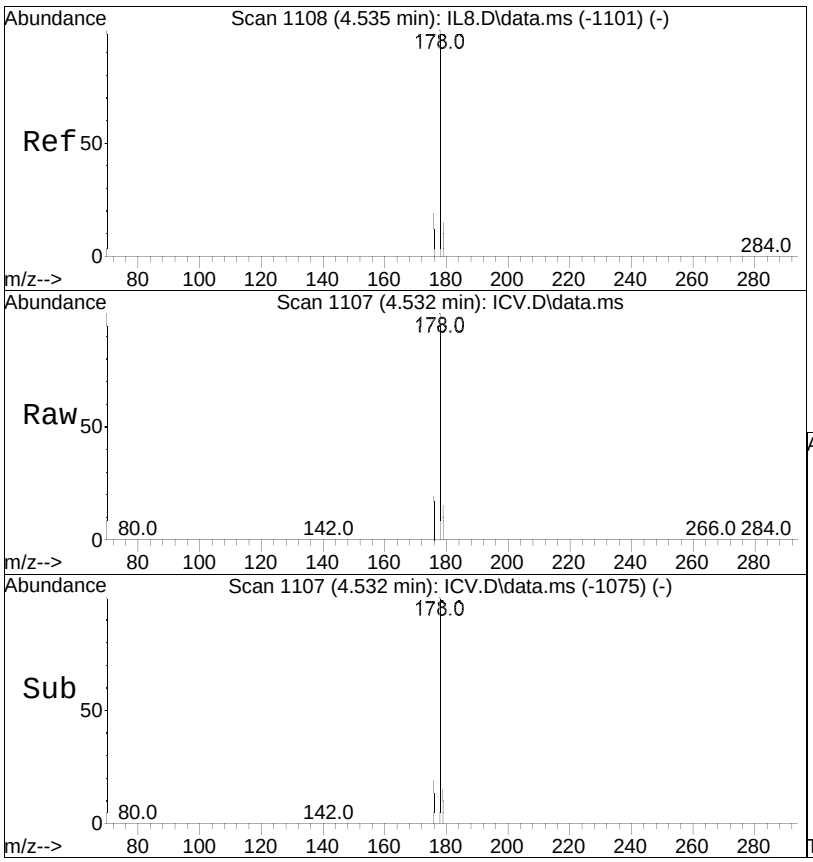


#26
Phenanthrene
Concen: 958.72 ng/ml
RT: 4.505 min Scan# 1096
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:178 Resp: 215532

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.5	18.7

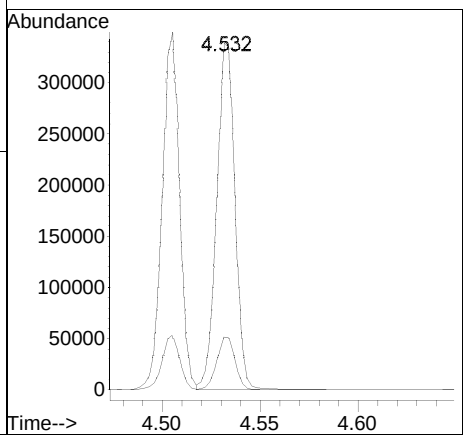


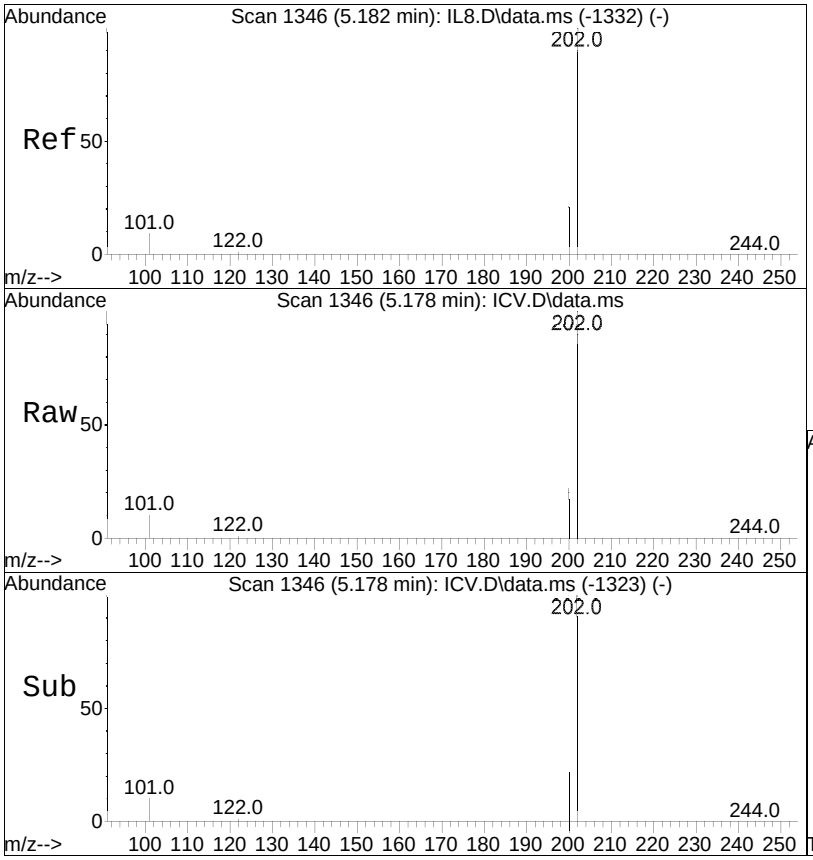


#27
Anthracene
Concen: 942.74 ng/ml
RT: 4.532 min Scan# 1107
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:178 Resp: 219278

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.3	18.5

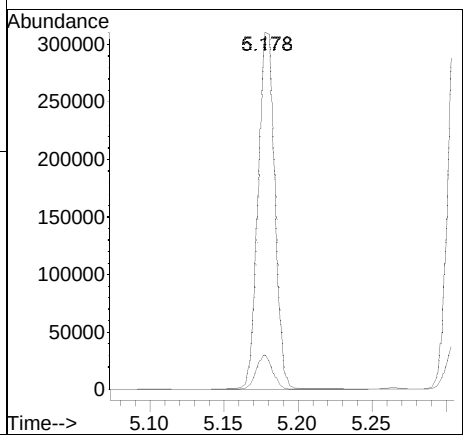


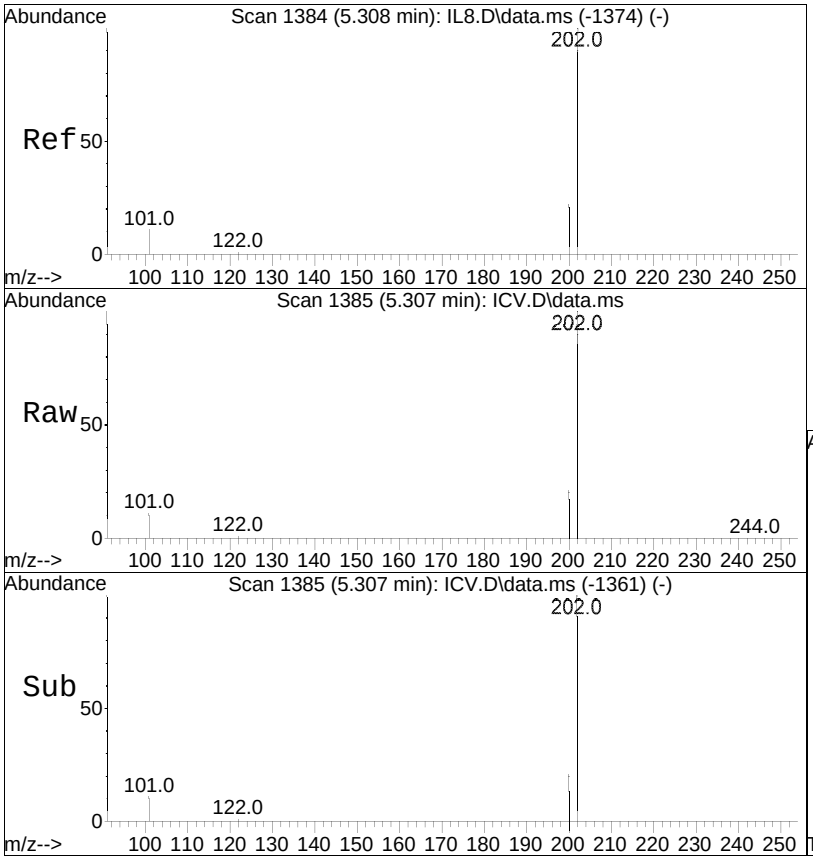


#28
Fluoranthene
Concen: 947.13 ng/ml
RT: 5.178 min Scan# 1346
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:202 Resp: 245243

Ion	Ratio	Lower	Upper
202	100		
101	9.5	7.8	11.6

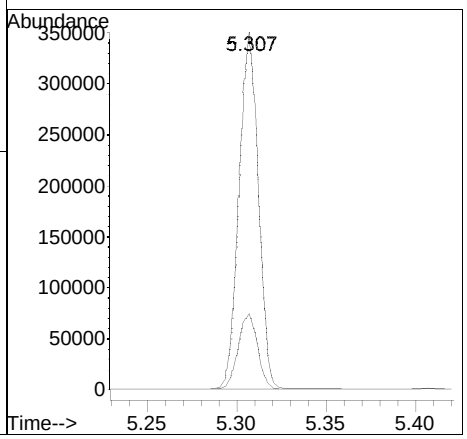


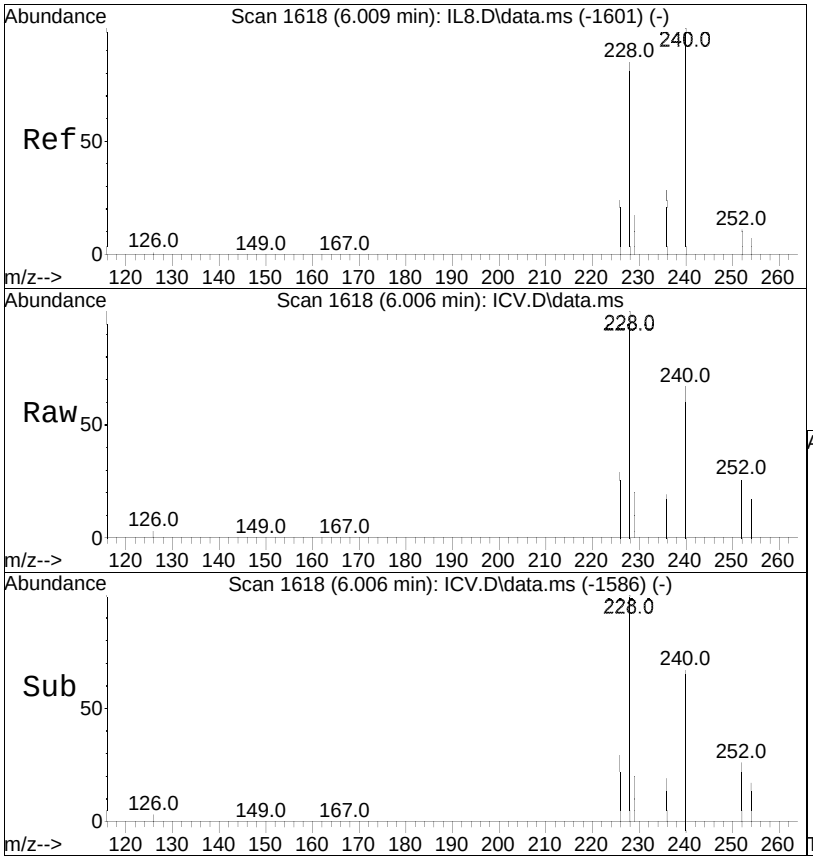


#29
Pyrene
Concen: 973.28 ng/ml
RT: 5.307 min Scan# 1385
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:202 Resp: 259868

Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.5	26.3

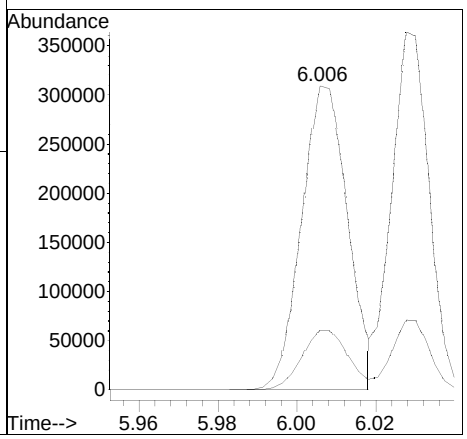


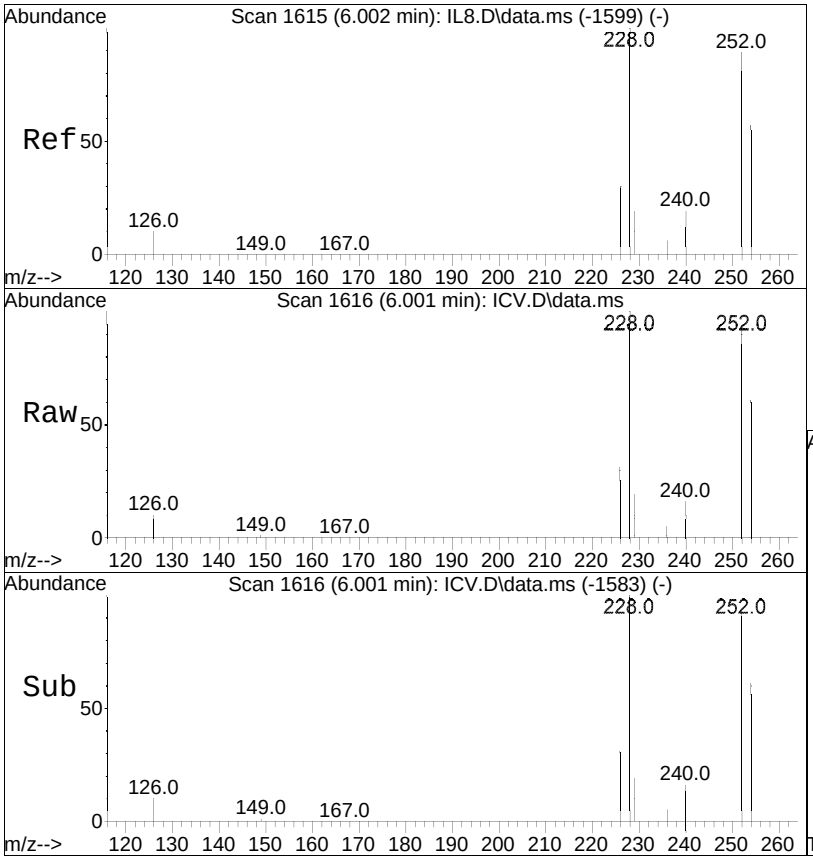


#32
Benzo[a]anthracene
Concen: 931.40 ng/ml
RT: 6.006 min Scan# 1618
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:228 Resp: 251011

Ion	Ratio	Lower	Upper
228	100		
229	19.6	16.2	24.4

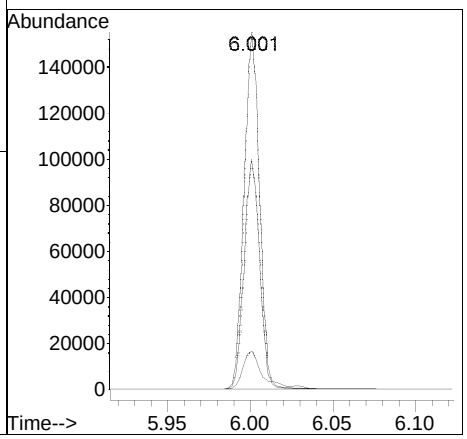


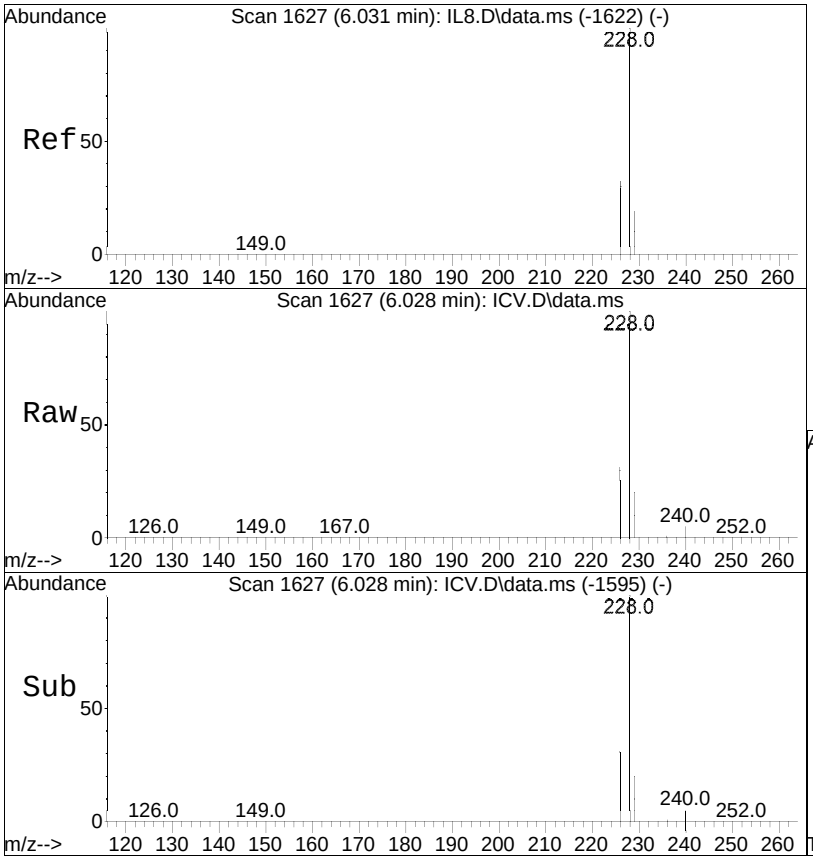


#33
3,3'-Dichlorobenzidine
Concen: 1045.05 ng/ml
RT: 6.001 min Scan# 1616
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:252 Resp: 99042

Ion	Ratio	Lower	Upper
252	100		
126	13.3	10.9	16.3
254	64.4	51.4	77.2

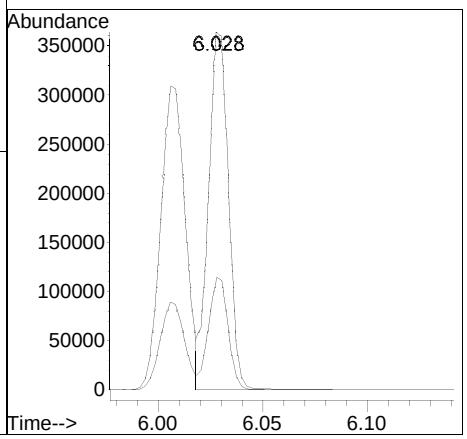


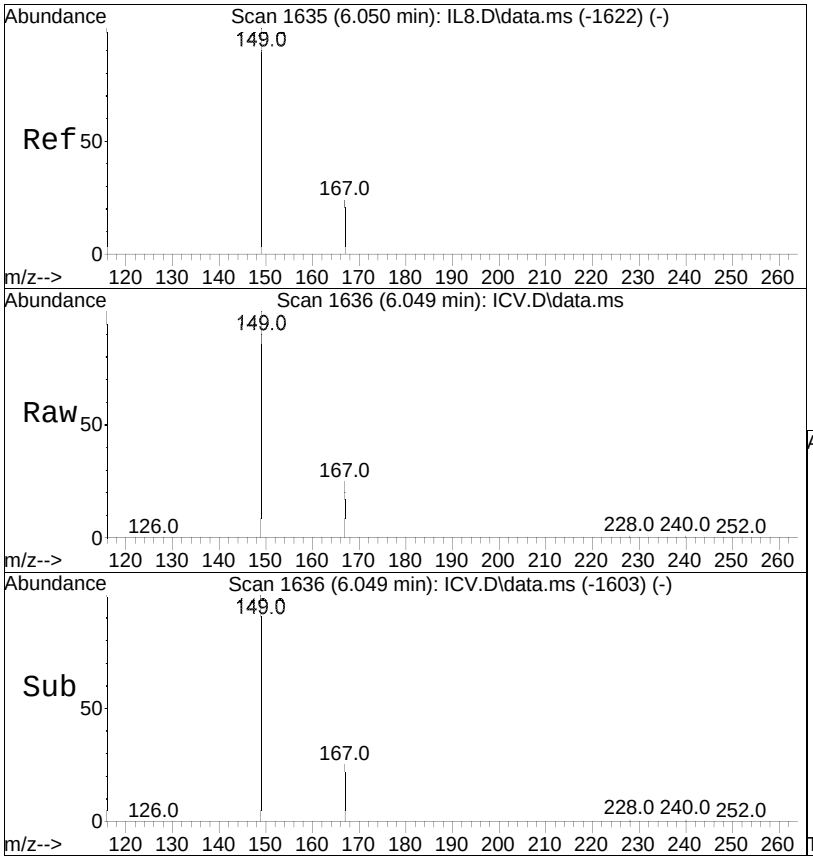


#34
Chrysene
Concen: 1032.57 ng/ml
RT: 6.028 min Scan# 1627
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:228 Resp: 239672

Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.9	37.3

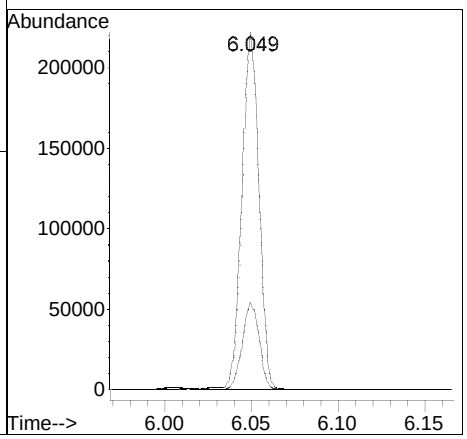


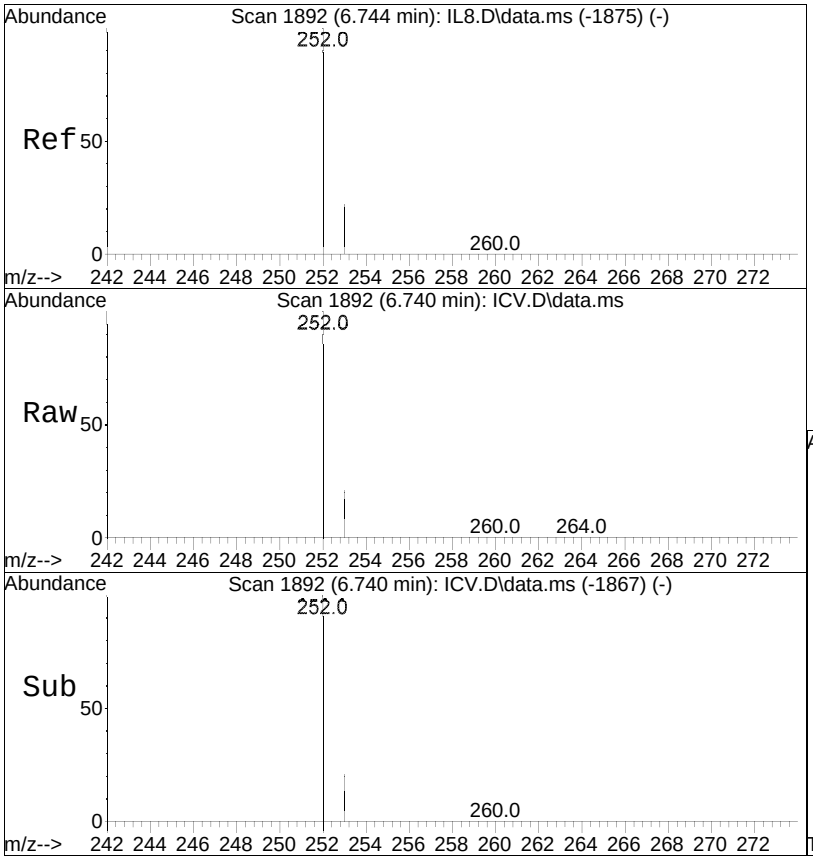


#35
Bis(2-ethylhexyl)phthalate
Concen: 957.74 ng/ml
RT: 6.049 min Scan# 1636
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:149 Resp: 148592

Ion	Ratio	Lower	Upper
149	100		
167	24.4	19.6	29.4

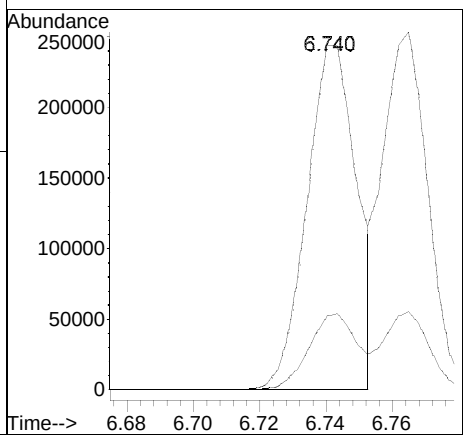


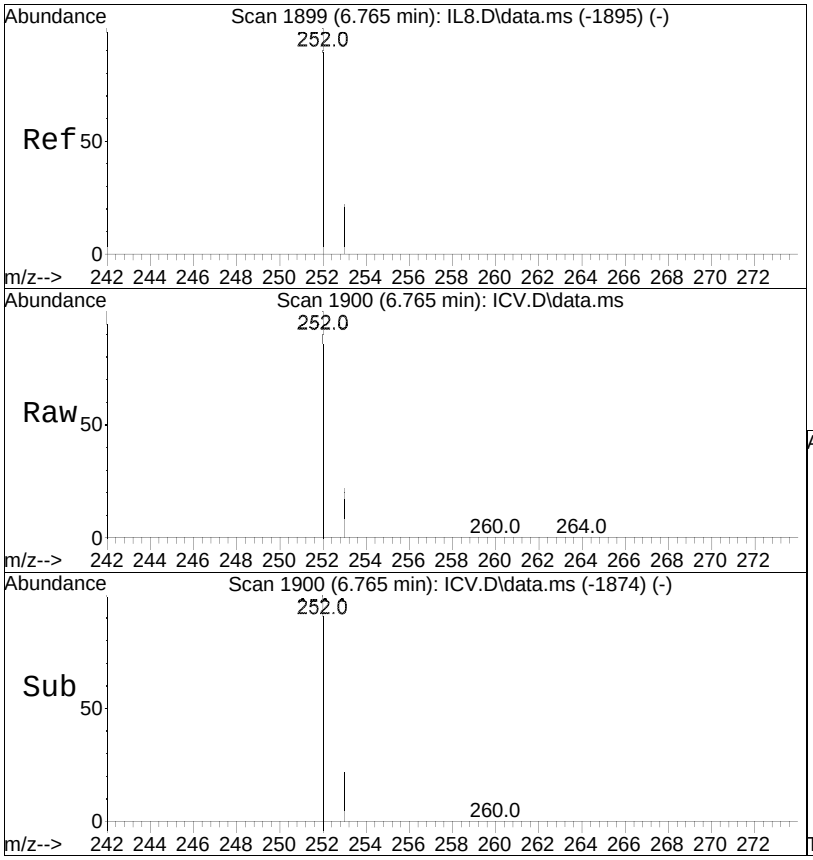


#37
Benzo[b]fluoranthene
Concen: 926.83 ng/ml
RT: 6.740 min Scan# 1892
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:252 Resp: 255448

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.4	26.0

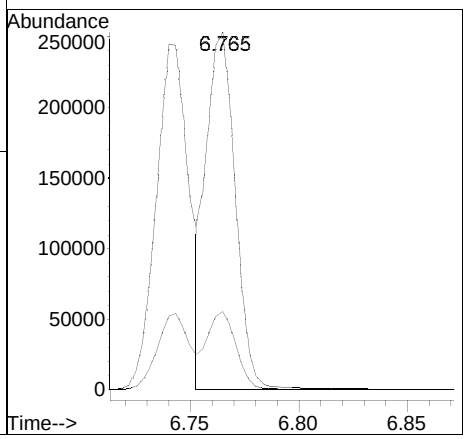


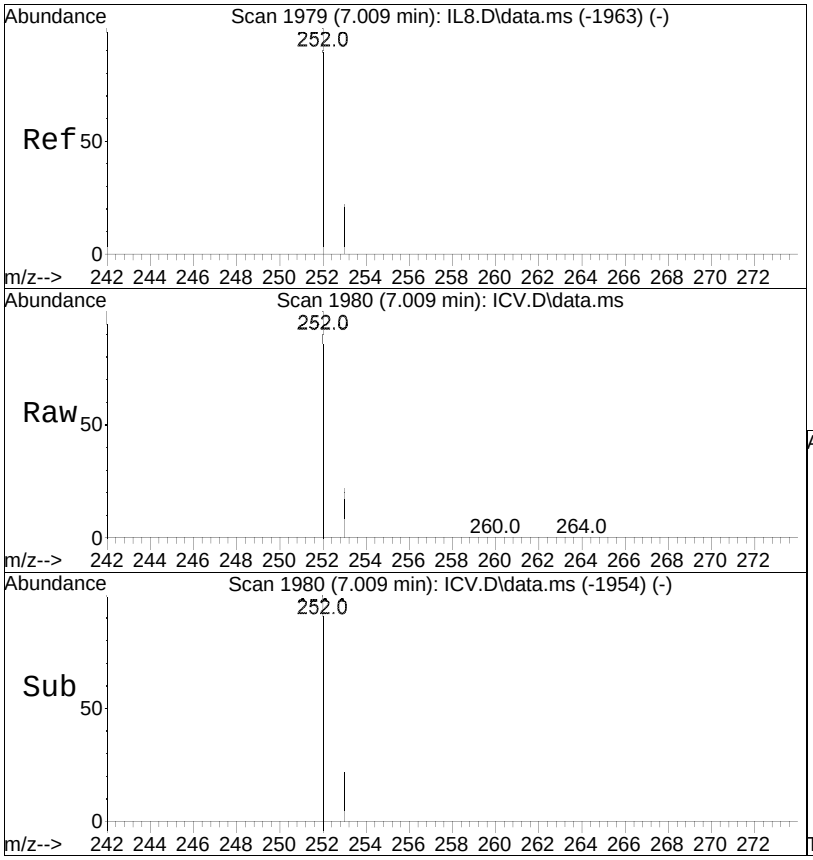


#38
Benzo[k]fluoranthene
Concen: 955.33 ng/ml
RT: 6.765 min Scan# 1900
Delta R.T. -0.000 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:252 Resp: 236705

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.6	26.4

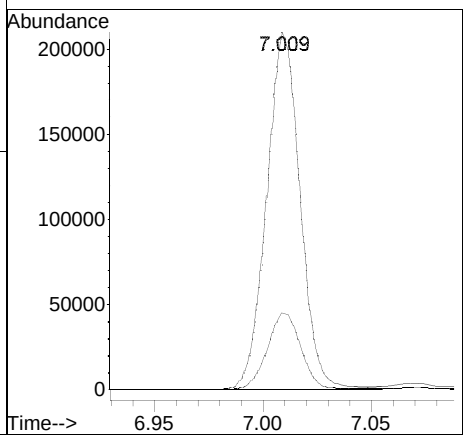


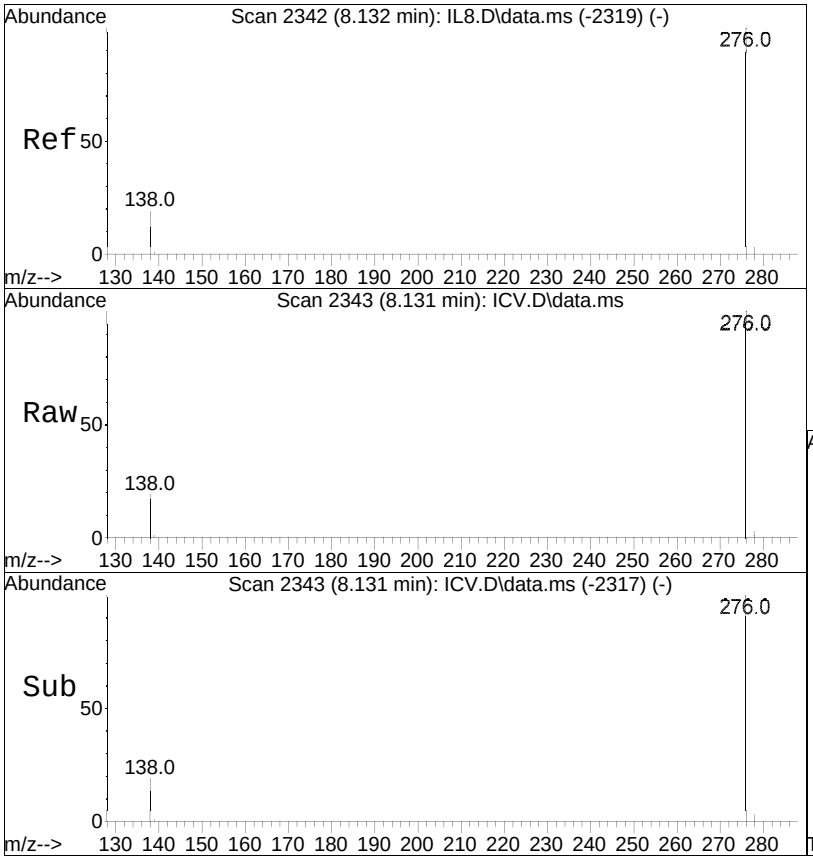


#39
Benzo[a]pyrene
Concen: 987.52 ng/ml
RT: 7.009 min Scan# 1980
Delta R.T. -0.000 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:252 Resp: 222935

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.2

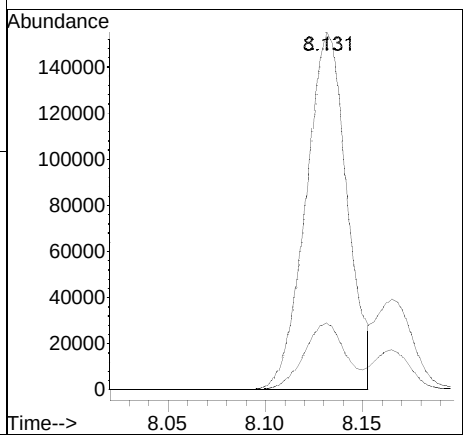


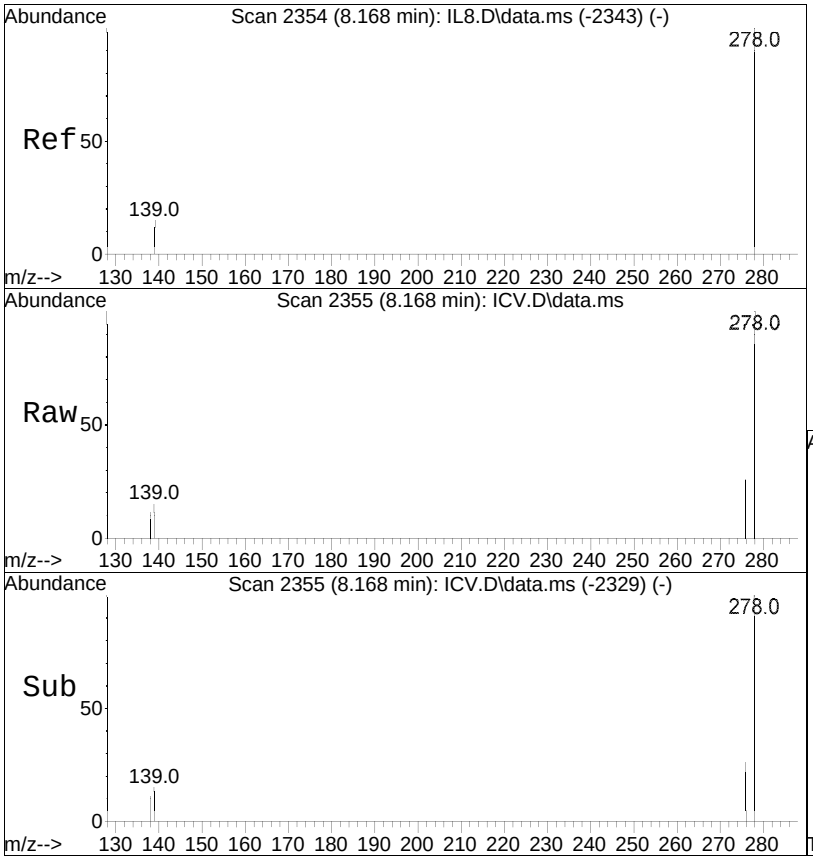


#40
Indeno[1,2,3-cd]pyrene
Concen: 980.82 ng/ml
RT: 8.131 min Scan# 2343
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:276 Resp: 226414

Ion	Ratio	Lower	Upper
276	100		
138	19.1	15.4	23.0

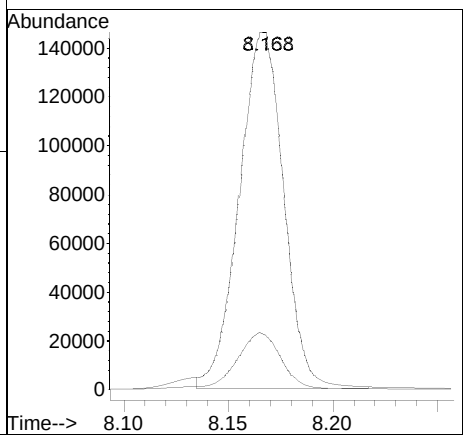


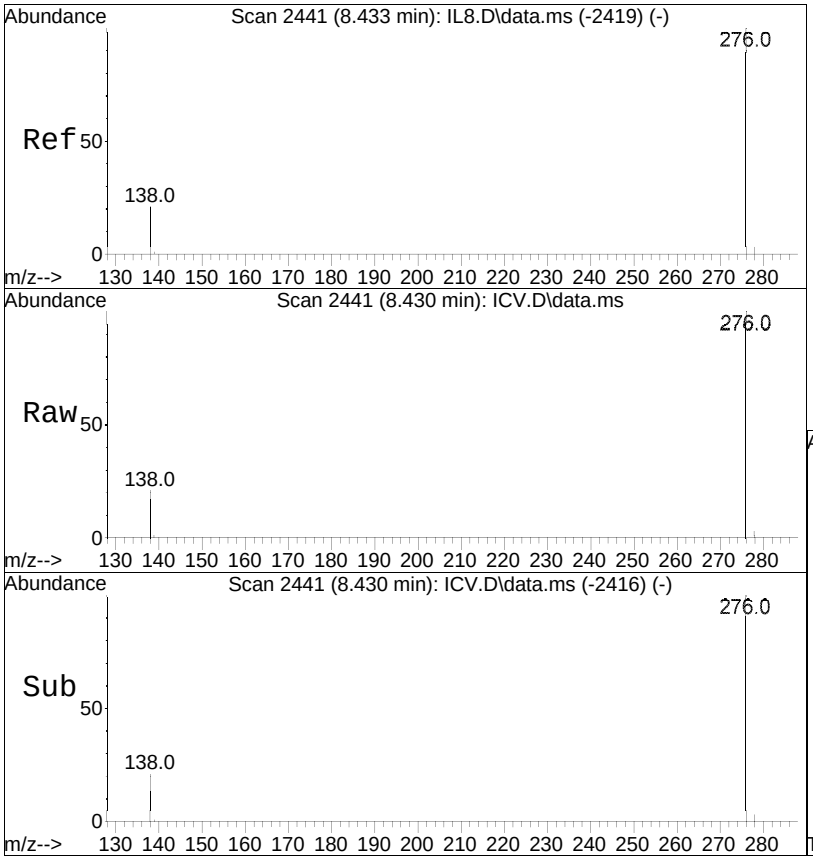


#41
Dibenzo[a,h]anthracene
Concen: 987.98 ng/ml M6
RT: 8.168 min Scan# 2355
Delta R.T. 0.000 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:278 Resp: 214255

Ion	Ratio	Lower	Upper
278	100		
139	16.2	13.0	19.6

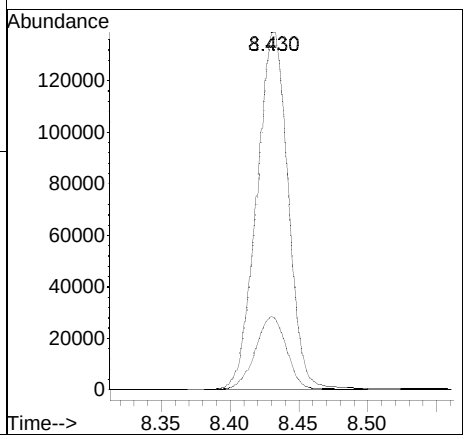




#42
Benzo[g,h,i]perylene
Concen: 971.22 ng/ml
RT: 8.430 min Scan# 2441
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 05 Nov 2024 10:13 am

Tgt Ion:276 Resp: 217730

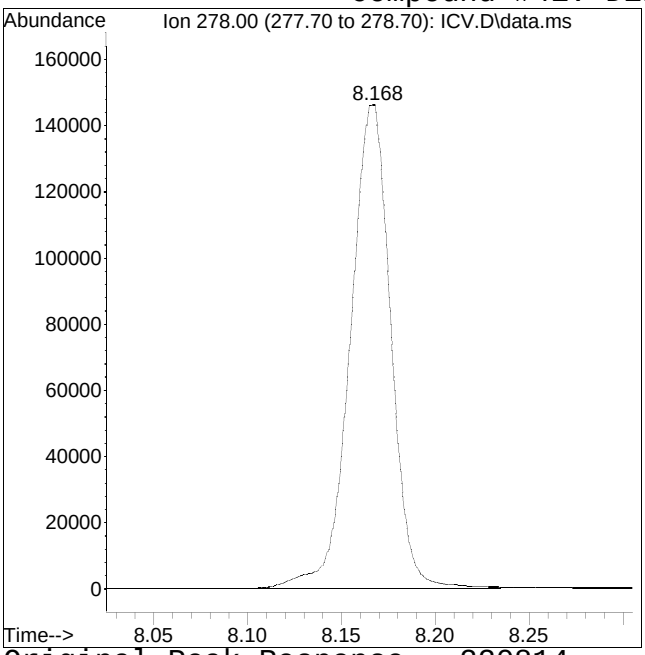
Ion	Ratio	Lower	Upper
276	100		
138	20.5	16.6	25.0



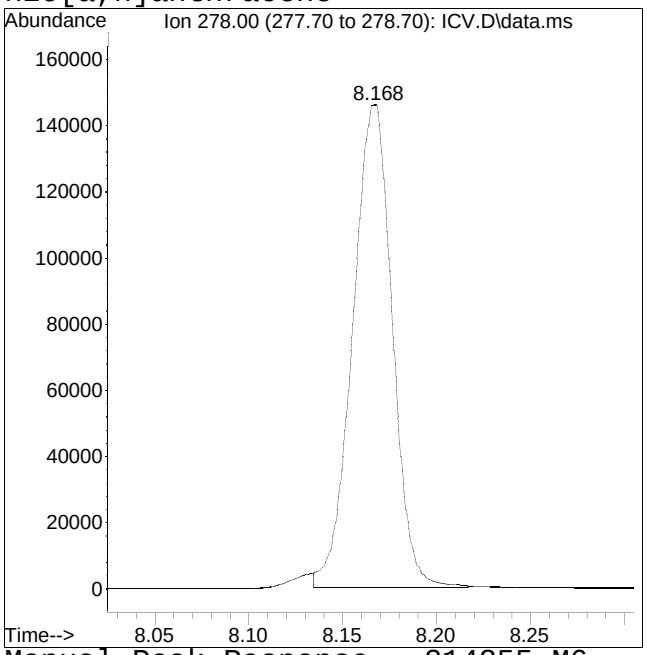
Manual Integration Report

Data Path : I:\8270SIM\sv120\2024\2411QMethod : SIM-RVT_241105_sv120.M
Data File : ICV.D Operator : SV120:mrg
Date Inj'd : 11/5/2024 10:13 am Instrument : SV120
Sample : CQICV,32,,1000.0ng/mL lot Quant Date : 12/2/2024 11:36 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 220814



Manual Peak Response = 214255 M6

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

Evaluate Relative Error Report SV120

Method Path : I:\8270SIM\sv120\241105RVTical\
Method File : SIM-RVT_241105_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Nov 05 16:50:36 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
4 T	Bis(2-chloroethyl)ether	Q	ng/ml	1000.0	962.445	-3.8	10.00	6.181	-38.2
23 T	4,6-Dinitro-o-cresol	L	ng/ml	1000.0	936.853	-6.3	40.00	44.211	10.5
25 T	Pentachlorophenol	Q	ng/ml	1000.0	978.234	-2.2	10.00	13.695	37.0
32 T	Benzo[a]anthracene	L	ng/ml	1000.0	981.668	-1.8	1.00	0.947	-5.3

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
4 T	Bis(2-chloroethyl)ether	Quadratic	0.994894	-0.125863	1.25758	0.00100738
23 T	4,6-Dinitro-o-cresol	Linear	0.998300	0.000000	0.120923	-0.000655188
25 T	Pentachlorophenol	Quadratic	0.996532	0.018734	0.112024	-0.000194831
32 T	Benzo[a]anthracene	Linear	0.999284	0.000000	1.21688	0.0029462

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV120	**Calibration Date**	: 12/19/24 07:05		
Lab File ID	: CCV1219	**Init. Calib. Date(s)**	: 11/05/24	11/05/24	
Sample No	: WG2011166-3	**Init. Calib. Times**	: 07:30	09:57	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	68	0
2-Fluorophenol	1.177	1.098	.05	6.7	20	65	0
Phenol-d6	1.447	1.362	.05	5.9	20	65	0
Bis(2-chloroethyl)ether	1000	914.932	.05	8.5	20	65	0
n-nitrosodi-n-propylamine	0.873	0.809	.05	7.3	20	63	0
Hexachloroethane	0.524	0.478	.05	8.8	20	63	0
Nitrobenzene-d5	1.277	1.203	.05	5.8	20	64	0
Naphthalene-d8	1	1	.05	0	20	69	0
Naphthalene	1	0.887	.05	11.3	20	65	0
Hexachlorobutadiene	0.189	0.166	.05	12.2	20	63	0
2-Methylnaphthalene	0.694	0.625	.05	9.9	20	65	0
1-Methylnaphthalene	0.639	0.573	.05	10.3	20	66	0
2-Fluorobiphenyl	0.806	0.688	.05	14.6	20	64	0
2-Chloronaphthalene	0.689	0.597	.05	13.4	20	64	0
2,6-Dinitrotoluene	0.156	0.146	.05	6.4	20	67	0
Acenaphthylene	0.994	0.922	.05	7.2	20	65	0
Acenaphthene-d10	1	1	.05	0	20	71	0
Acenaphthene	1.207	1.049	.05	13.1	20	65	0
2,4-Dinitrotoluene	0.336	0.346	.05	-3	20	69	0
Fluorene	1.306	1.197	.05	8.3	20	67	0
2,4,6-Tribromophenol	0.159	0.161	.05	-1.3	20	68	0
Phenanthrene-d10	1	1	.05	0	20	75	0
4,6-Dinitro-o-cresol	1000	807.375	.05	19.3	20	65	0
Hexachlorobenzene	0.211	0.185	.05	12.3	20	69	0
Pentachlorophenol	1000	904.308	.05	9.6	20	69	0
Phenanthrene	0.953	0.878	.05	7.9	20	69	0
Anthracene	0.986	0.895	.05	9.2	20	69	0
Fluoranthene	1.098	1.09	.05	0.7	20	79	0
Pyrene	1.132	1.15	.05	-1.6	20	80	0
4-Terphenyl-d14	0.727	0.674	.05	7.3	20	73	0
Chrysene-d12	1	1	.05	0	20	89	0
Benzo[a]anthracene	1000	894.406	.05	10.6	20	81	0
3,3'-Dichlorobenzidine	0.432	0.439	.05	-1.6	20	88	0
Chrysene	1.059	1.038	.05	2	20	81	0
Bis(2-ethylhexyl)phthalate	0.708	0.699	.05	1.3	20	87	0
Perylene-d12	1	1	.05	0	20	90	0
Benzo[b]fluoranthene	1.214	1.12	.05	7.7	20	86	0
Benzo[k]fluoranthene	1.091	1	.05	8.3	20	79	0
Benzo[a]pyrene	0.994	0.959	.05	3.5	20	84	0
Indeno[1,2,3-cd]pyrene	1.017	0.959	.05	5.7	20	83	0
Dibenzo[a,h]anthracene	0.955	0.886	.05	7.2	20	82	0
Benzo[g,h,i]perylene	0.987	0.891	.05	9.7	20	80	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\241219RVT\
Data File : ccv1219.D
Acq On : 19 Dec 2024 07:05 am
Operator : SV120:kmh
Sample : wg2011166-3,32,,ICV 10884 (1130a)
Misc : wg2011166,,ical21668
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 19 07:30:10 2024
Quant Method : I:\8270SIM\sv120\241219RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 19 07:31:54 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	68	0.00
2	s	2-Fluorophenol	1.177	1.098	6.7	65	0.00
3	s	Phenol-d6	1.447	1.362	5.9	65	0.00
4	T	Bis(2-chloroethyl)ether	*1000.000	914.932	8.5	65	0.00
5	T	n-nitrosodi-n-propylamine	0.873	0.809	7.3	63	0.00
6	t	Hexachloroethane	0.524	0.478	8.8	63	0.00
7	s	Nitrobenzene-d5	1.277	1.203	5.8	64	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	69	0.00
9	t	Naphthalene	1.000	0.887	11.3	65	0.00
10	t	Hexachlorobutadiene	0.189	0.166	12.2	63	0.00
11	t	2-Methylnaphthalene	0.694	0.625	9.9	65	0.00
12	t	1-Methylnaphthalene	0.639	0.573	10.3	66	0.00
13	s	2-Fluorobiphenyl	0.806	0.688	14.6	64	0.00
14	t	2-Chloronaphthalene	0.689	0.597	13.4	64	0.00
15	t	2,6-Dinitrotoluene	0.156	0.146	6.4	67	0.00
16	t	Acenaphthylene	0.994	0.922	7.2	65	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	71	0.00
18	t	Acenaphthene	1.207	1.049	13.1	65	0.00
19	t	2,4-Dinitrotoluene	0.336	0.346	-3.0	69	0.00
20	t	Fluorene	1.306	1.197	8.3	67	0.00
21	s	2,4,6-Tribromophenol	0.159	0.161	-1.3	68	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	75	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	807.375	19.3	65	0.00
24	t	Hexachlorobenzene	0.211	0.185	12.3	69	0.00
25	t	Pentachlorophenol	*1000.000	904.308	9.6	69	0.00
26	t	Phenanthrene	0.953	0.878	7.9	69	0.00
27	t	Anthracene	0.986	0.895	9.2	69	0.00
28	t	Fluoranthene	1.098	1.090	0.7	79	0.00
29	t	Pyrene	1.132	1.150	-1.6	80	0.00
30	s	4-Terphenyl-d14	0.727	0.674	7.3	73	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	89	0.00
32	t	Benzo[a]anthracene	*1000.000	894.406	10.6	81	0.00
33	t	3,3'-Dichlorobenzidine	0.432	0.439	-1.6	88	0.00
34	t	Chrysene	1.059	1.038	2.0	81	0.00
35	T	Bis(2-ethylhexyl)phthalate	0.708	0.699	1.3	87	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\241219RVT\
Data File : ccv1219.D
Acq On : 19 Dec 2024 07:05 am
Operator : SV120:kmh
Sample : wg2011166-3,32,,ICV 10884 (1130a)
Misc : wg2011166,,ical21668
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 19 07:30:10 2024
Quant Method : I:\8270SIM\sv120\241219RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 19 07:31:54 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	90	0.00
37	t	Benzo[b]fluoranthene	1.214	1.120	7.7	86	0.00
38	t	Benzo[k]fluoranthene	1.091	1.000	8.3	79	0.00
39	t	Benzo[a]pyrene	0.994	0.959	3.5	84	0.00
40	t	Indeno[1,2,3-cd]pyrene	1.017	0.959	5.7	83	0.00
41	t	Dibenzo[a,h]anthracene	0.955	0.886	7.2	82	0.00
42	t	Benzo[g,h,i]perylene	0.987	0.891	9.7	80	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\sv120\241219RVT\
Data File : ccv1219.D
Acq On : 19 Dec 2024 07:05 am
Operator : SV120:kmh
Sample : wg2011166-3,32,,ICV 10884 (1130a)
Misc : wg2011166,,ical21668
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 19 07:30:10 2024
Quant Method : I:\8270SIM\sv120\241219RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 19 07:31:54 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	2.318	152	183438	4000.000	ng/ml	0.00
8) Naphthalene-d8	2.979	136	731006	4000.000	ng/ml	0.00
17) Acenaphthene-d10	3.960	164	431670	4000.000	ng/ml	0.00
22) Phenanthrene-d10	4.806	188	877889	4000.000	ng/ml	0.00
31) Chrysene-d12	6.416	240	872898	4000.000	ng/ml	0.00
36) Perylene-d12	7.708	264	860499	4000.000	ng/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	1.732	112	50366	932.798	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 46.64%			
3) Phenol-d6	2.126	99	62467	941.551	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 47.08%			
7) Nitrobenzene-d5	2.594	82	55180	942.126	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 94.21%			
13) 2-Fluorobiphenyl	3.576	172	125821	853.959	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 85.40%			
21) 2,4,6-Tribromophenol	4.408	330	17391	1012.047	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 50.60%			
30) 4-Terphenyl-d14	5.741	244	147849	926.204	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 46.31%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.181	93	51743	914.932	ng/ml	98
5) n-nitrosodi-n-propylamine	2.514	70	37115	927.571	ng/ml	99
6) Hexachloroethane	2.575	117	21920	912.761	ng/ml	99
9) Naphthalene	2.990	128	162076	886.941	ng/ml	100
10) Hexachlorobutadiene	3.060	225	30259	873.901	ng/ml	100
11) 2-Methylnaphthalene	3.370	142	114223	900.350	ng/ml	100
12) 1-Methylnaphthalene	3.426	142	104737	897.561	ng/ml	100
14) 2-Chloronaphthalene	3.643	162	109174	866.890	ng/ml	99
15) 2,6-Dinitrotoluene	3.835	165	26697	936.555	ng/ml	97
16) Acenaphthylene	3.877	152	168487	927.926	ng/ml	100
18) Acenaphthene	3.977	153	113254	869.201	ng/ml	93
19) 2,4-Dinitrotoluene	4.066	165	37294	1028.003	ng/ml	99
20) Fluorene	4.270	166	129172	916.199	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.298	198	20852	807.375	ng/ml	96
24) Hexachlorobenzene	4.589	284	40684	877.344	ng/ml	99
25) Pentachlorophenol	4.700	266	22903	904.308	ng/ml	100
26) Phenanthrene	4.820	178	192673	920.983	ng/ml	100
27) Anthracene	4.848	178	196342	907.117	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\241219RVT\
Data File : ccv1219.D
Acq On : 19 Dec 2024 07:05 am
Operator : SV120:kmh
Sample : wg2011166-3,32,,ICV 10884 (1130a)
Misc : wg2011166,,ical21668
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 19 07:30:10 2024
Quant Method : I:\8270SIM\sv120\241219RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 19 07:31:54 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Fluoranthene	5.511	202	239311	993.175	ng/ml	99
29) Pyrene	5.646	202	252417	1015.909	ng/ml	100
32) Benzo[a]anthracene	6.406	228	240084	894.406	ng/ml	98
33) 3,3'-Dichlorobenzidine	6.391	252	95792	1015.217	ng/ml	99
34) Chrysene	6.433	228	226409	979.749	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.433	149	152554	987.621	ng/ml	100
37) Benzo[b]fluoranthene	7.302	252	240958	922.846	ng/ml	100
38) Benzo[k]fluoranthene	7.330	252	215050	916.171	ng/ml	100
39) Benzo[a]pyrene	7.635	252	206211	964.209	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.994	276	206212	942.962	ng/ml	99
41) Dibenzo[a,h]anthracene	9.035	278	190626M6	927.879	ng/ml	
42) Benzo[g,h,i]perylene	9.354	276	191670	902.433	ng/ml	97

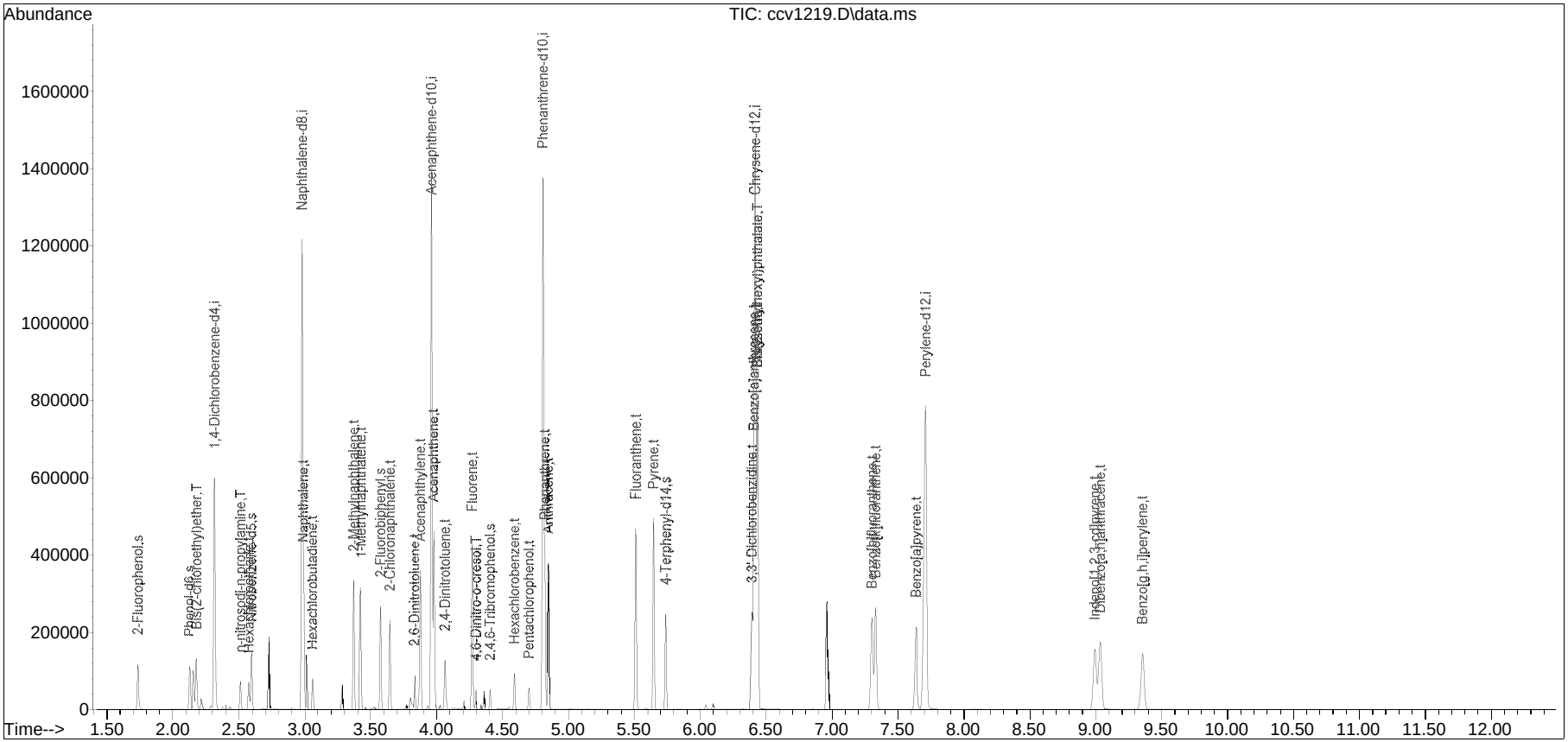
(#) = qualifier out of range (m) = manual integration (+) = signals summed

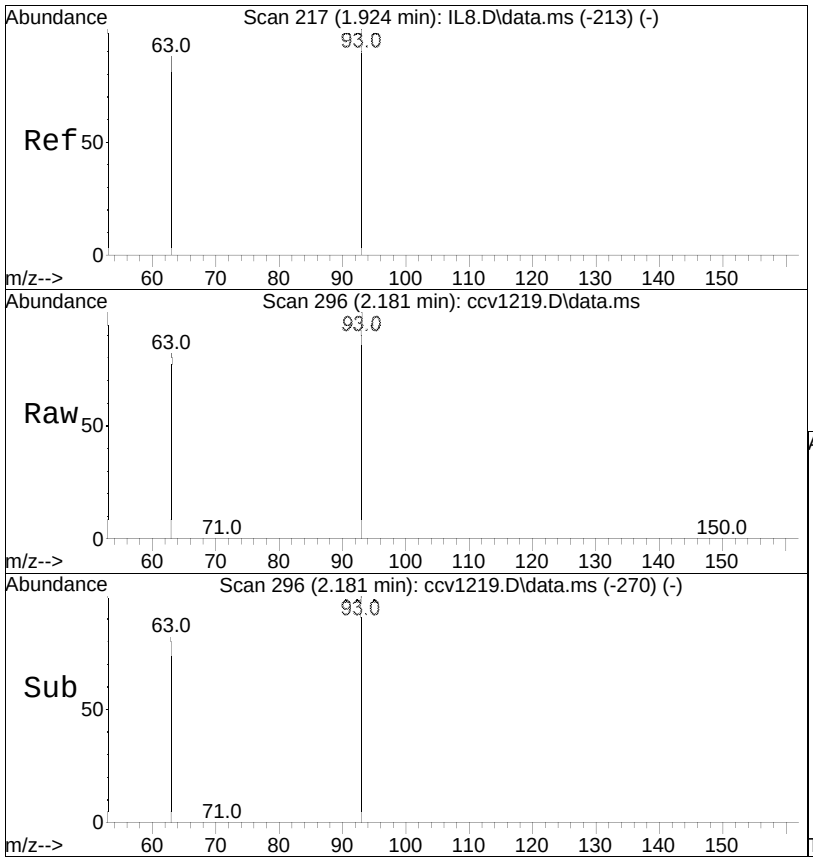
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\241219RVT\
Data File : ccv1219.D
Acq On : 19 Dec 2024 07:05 am
Operator : SV120:kmh
Sample : wg2011166-3,32,,ICV 10884 (1130a)
Misc : wg2011166,,ical21668
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 19 07:30:10 2024
Quant Method : I:\8270SIM\sv120\241219RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 19 07:31:54 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

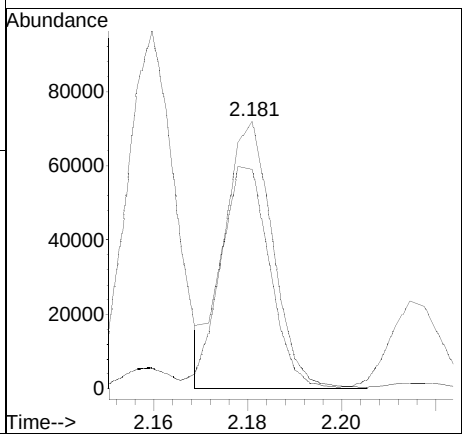


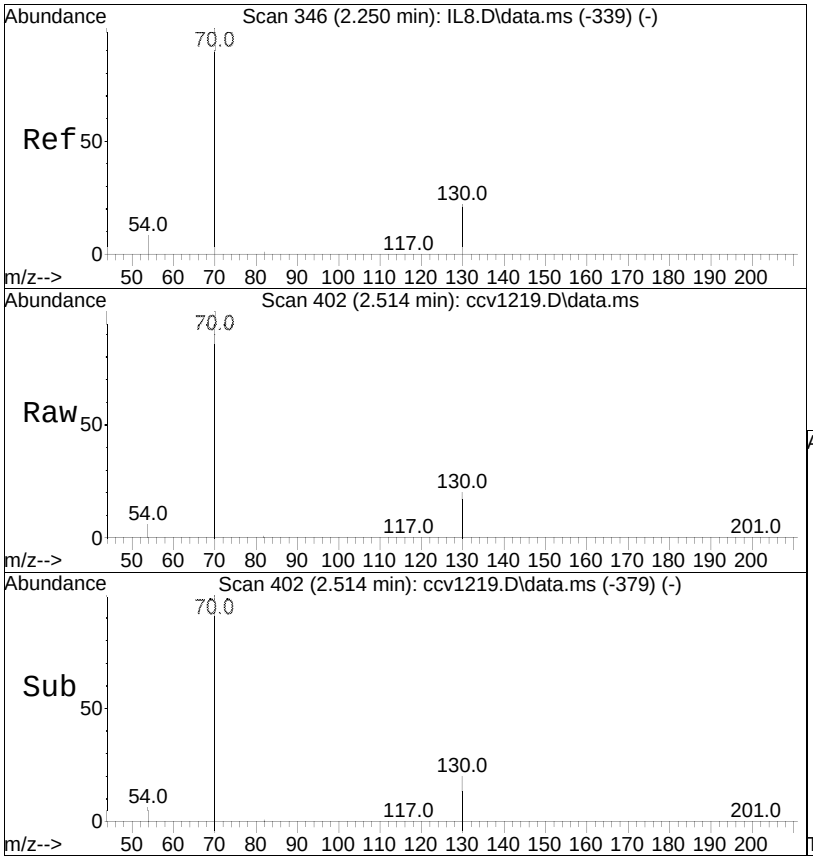


#4
Bis(2-chloroethyl)ether
Concen: 914.93 ng/ml
RT: 2.181 min Scan# 296
Delta R.T. 0.000 min
Lab File: ccv1219.D
Acq: 19 Dec 2024 07:05 am

Tgt Ion: 93 Resp: 51743

Ion	Ratio	Lower	Upper
93	100		
63	83.9	68.7	103.1

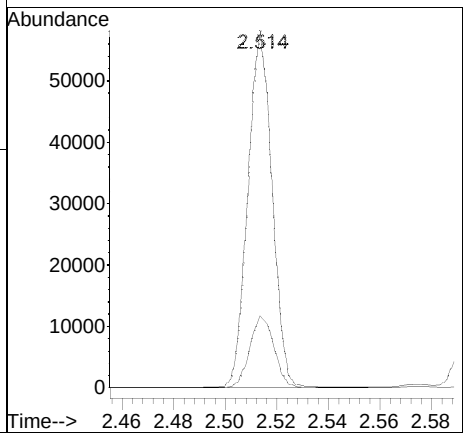


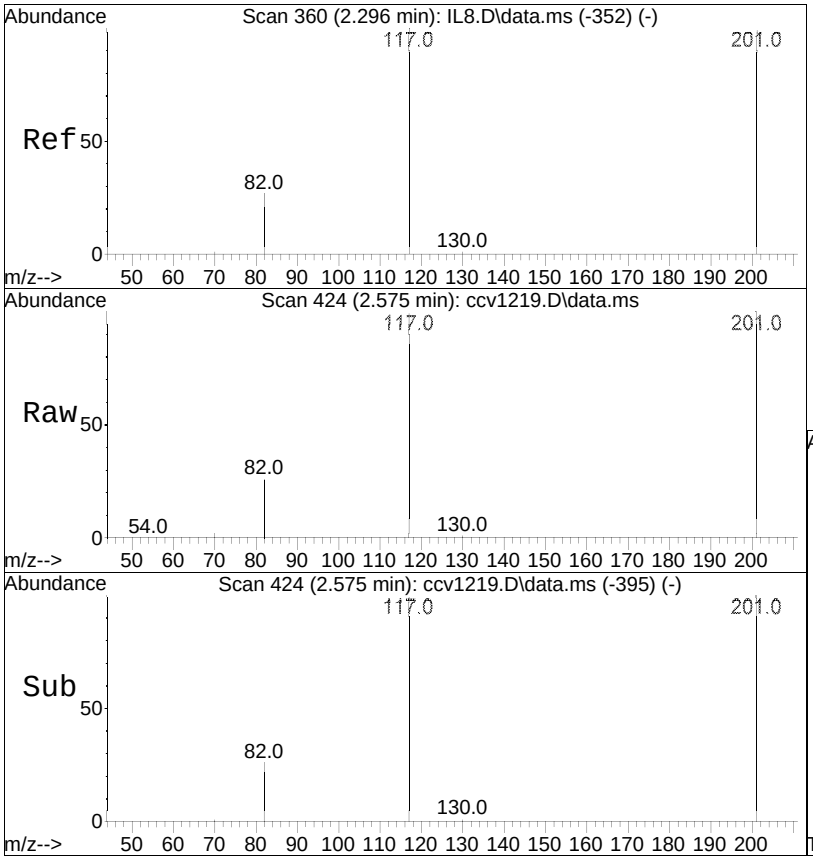


#5
n-nitrosodi-n-propylamine
Concen: 927.57 ng/ml
RT: 2.514 min Scan# 402
Delta R.T. 0.000 min
Lab File: ccv1219.D
Acq: 19 Dec 2024 07:05 am

Tgt Ion: 70 Resp: 37115

Ion	Ratio	Lower	Upper
70	100		
130	20.2	16.6	24.8

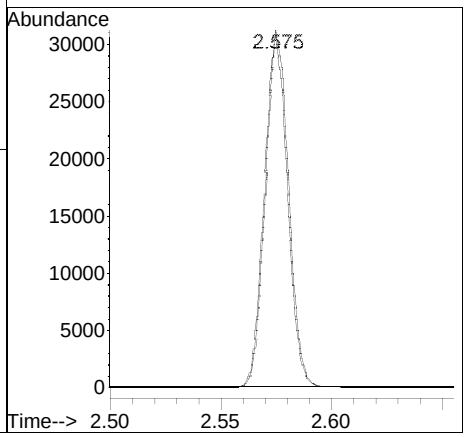


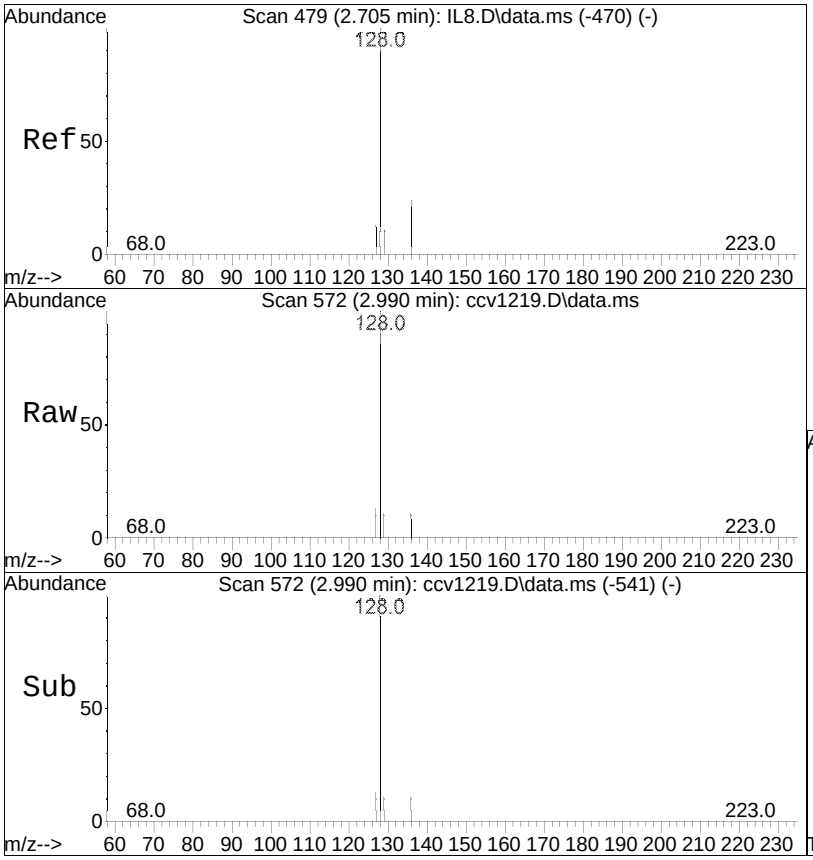


#6
Hexachloroethane
Concen: 912.76 ng/ml
RT: 2.575 min Scan# 424
Delta R.T. 0.000 min
Lab File: ccv1219.D
Acq: 19 Dec 2024 07:05 am

Tgt Ion:117 Resp: 21920

Ion	Ratio	Lower	Upper
117	100		
201	101.5	82.0	123.0

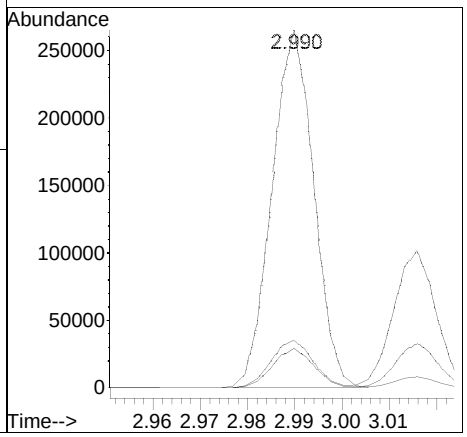


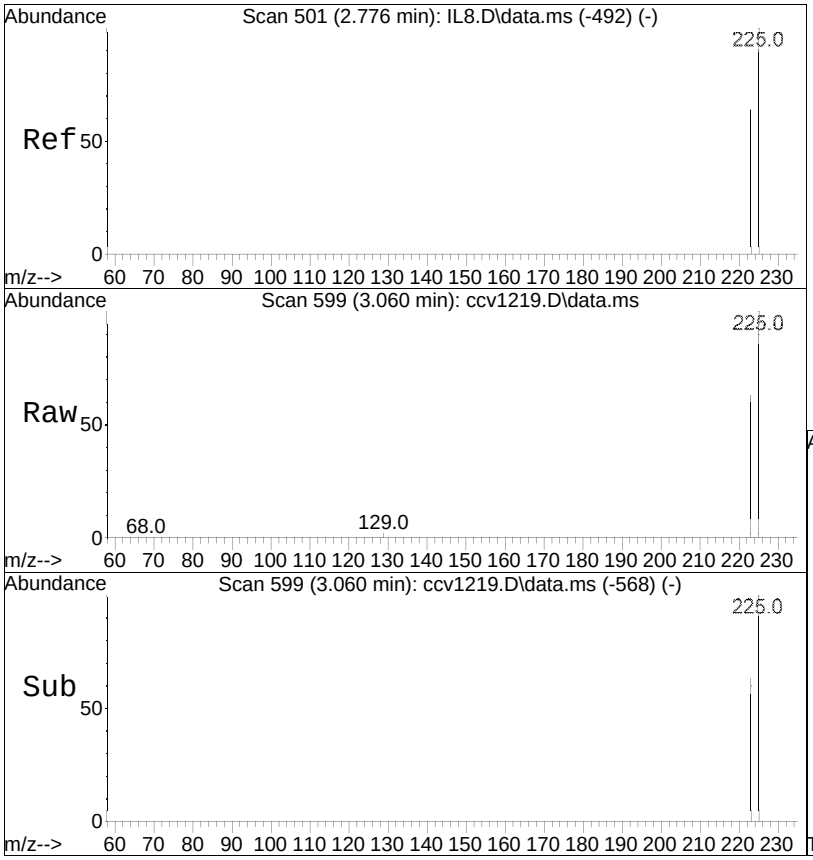


#9
Naphthalene
Concen: 886.94 ng/ml
RT: 2.990 min Scan# 572
Delta R.T. 0.000 min
Lab File: ccv1219.D
Acq: 19 Dec 2024 07:05 am

Tgt Ion:128 Resp: 162076

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.6	10.7	16.1

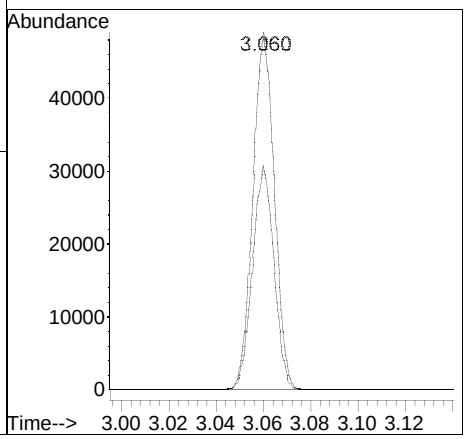


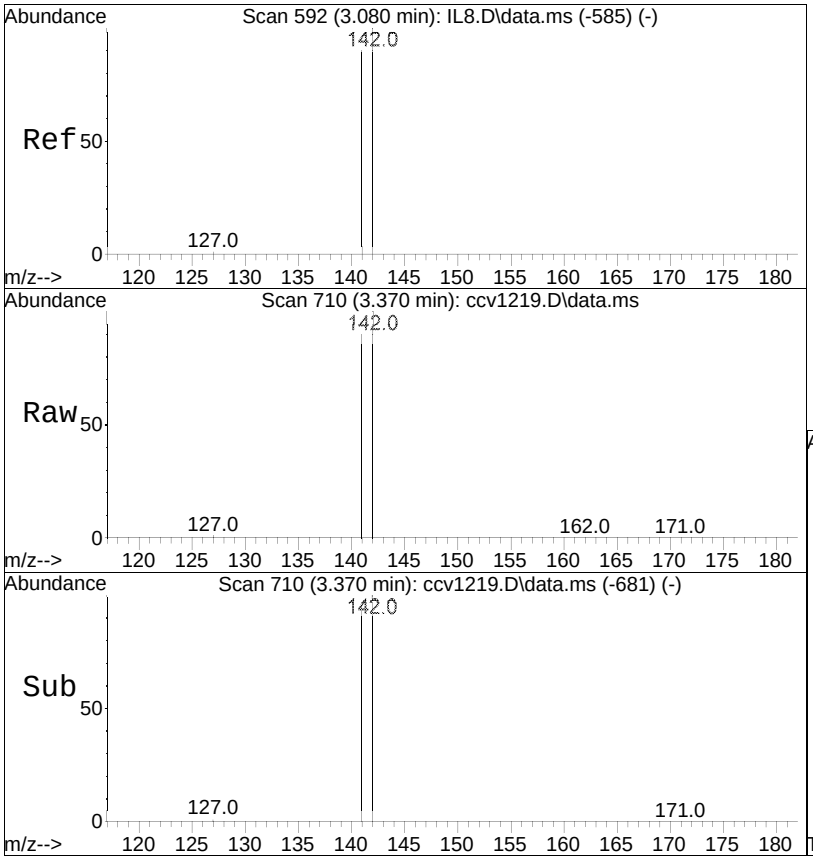


#10
Hexachlorobutadiene
Concen: 873.90 ng/ml
RT: 3.060 min Scan# 599
Delta R.T. 0.000 min
Lab File: ccv1219.D
Acq: 19 Dec 2024 07:05 am

Tgt Ion:225 Resp: 30259

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.5	75.7

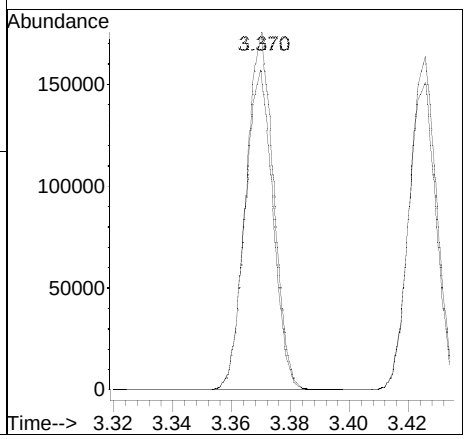


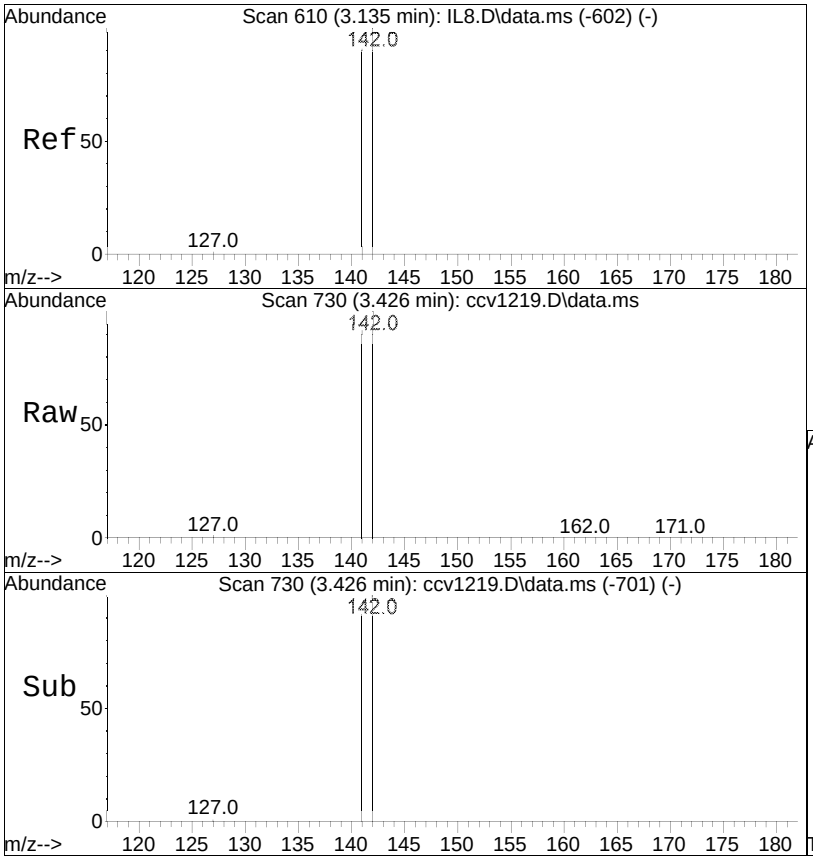


#11
2-Methylnaphthalene
Concen: 900.35 ng/ml
RT: 3.370 min Scan# 710
Delta R.T. 0.000 min
Lab File: ccv1219.D
Acq: 19 Dec 2024 07:05 am

Tgt Ion:142 Resp: 114223

Ion	Ratio	Lower	Upper
142	100		
141	90.3	72.2	108.2

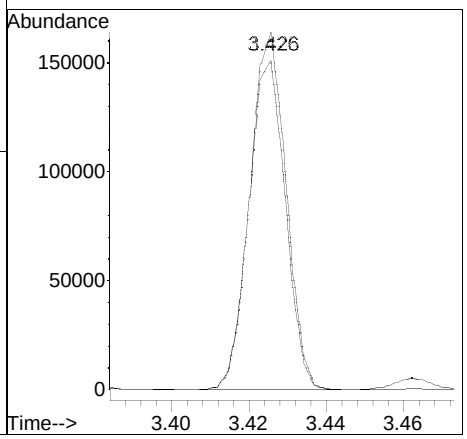


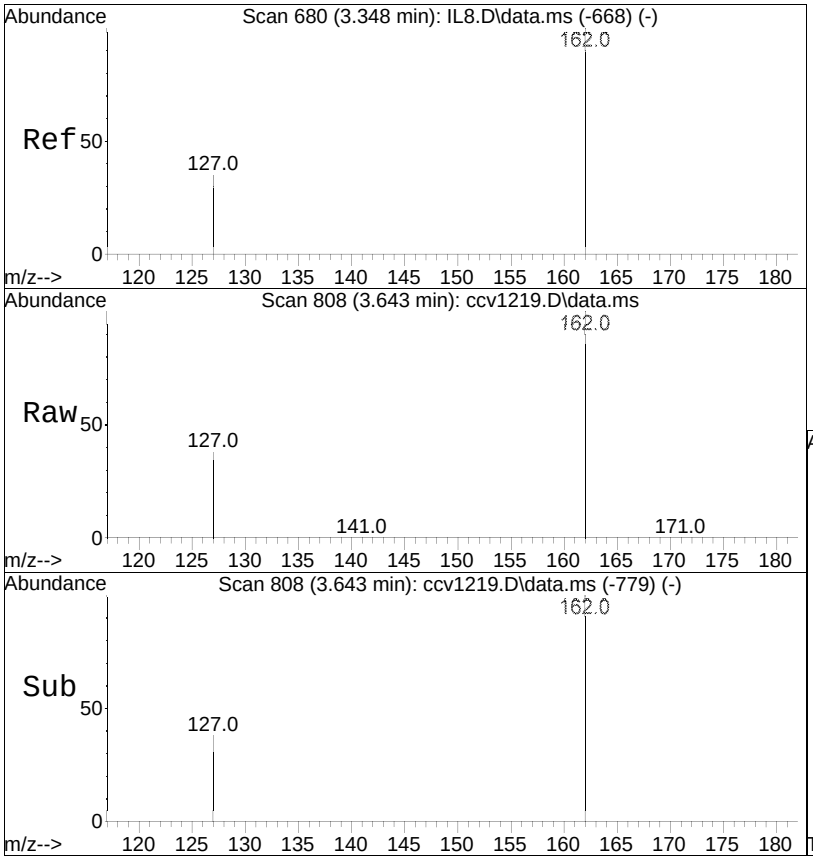


#12
1-Methylnaphthalene
Concen: 897.56 ng/ml
RT: 3.426 min Scan# 730
Delta R.T. 0.000 min
Lab File: ccv1219.D
Acq: 19 Dec 2024 07:05 am

Tgt Ion:142 Resp: 104737

Ion	Ratio	Lower	Upper
142	100		
141	93.4	74.6	112.0

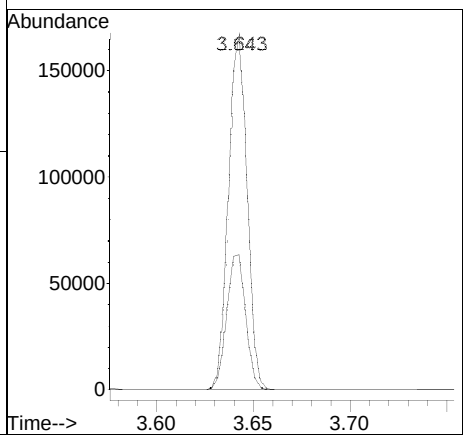


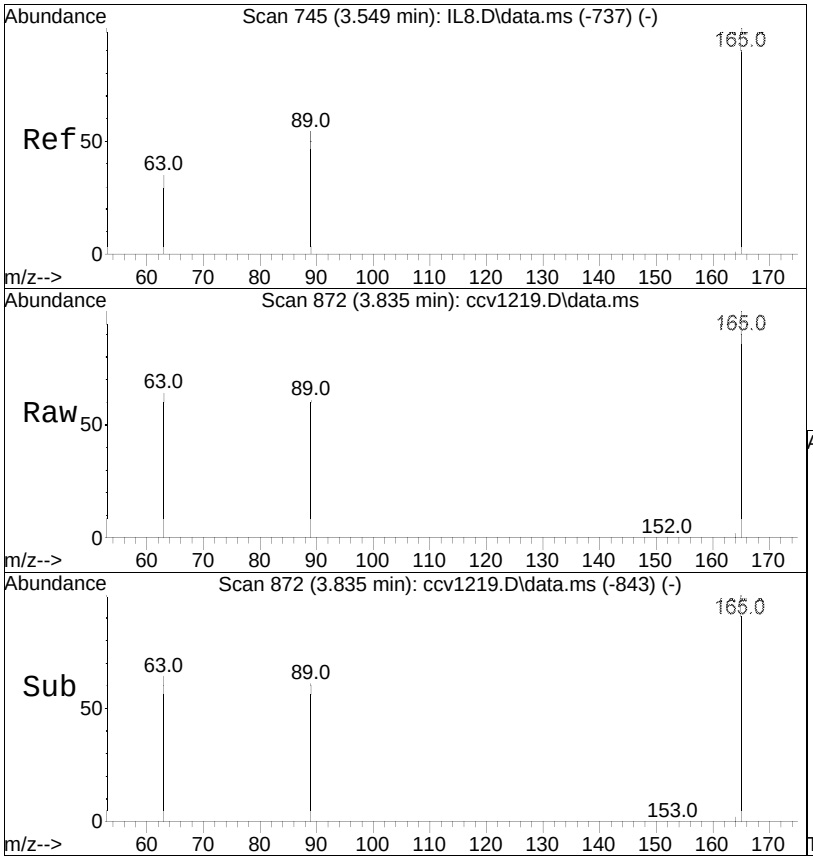


#14
2-Chloronaphthalene
Concen: 866.89 ng/ml
RT: 3.643 min Scan# 808
Delta R.T. 0.000 min
Lab File: ccv1219.D
Acq: 19 Dec 2024 07:05 am

Tgt Ion:162 Resp: 109174

Ion	Ratio	Lower	Upper
162	100		
127	39.2	31.0	46.4

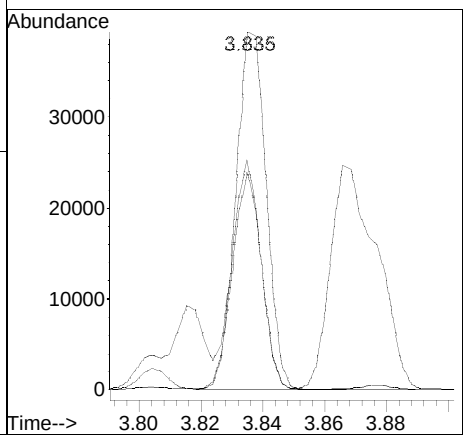


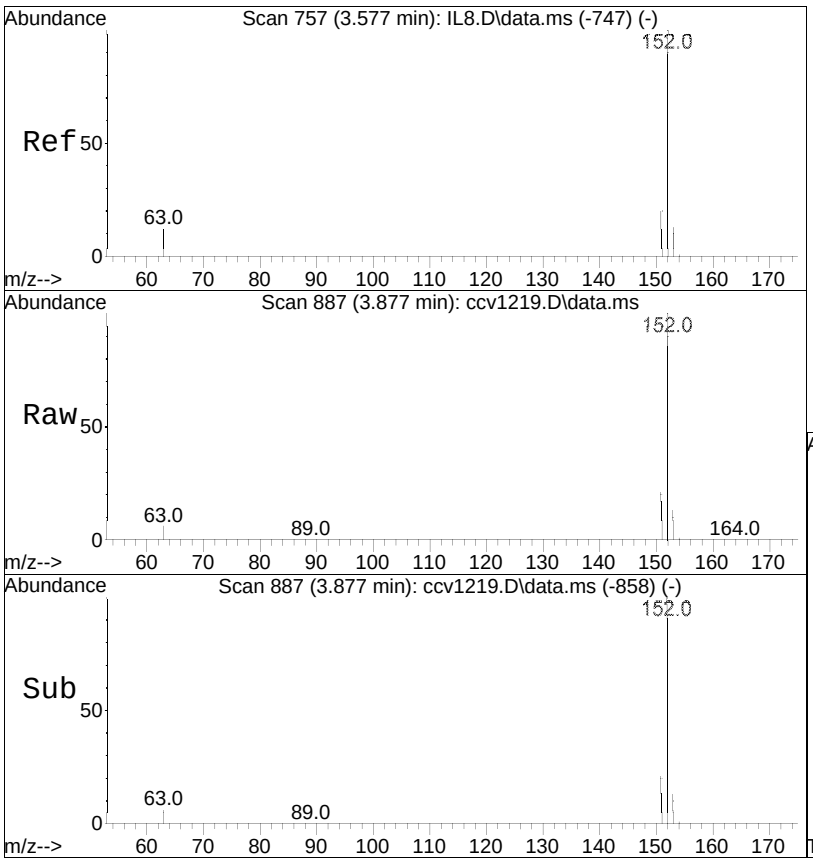


#15
2,6-Dinitrotoluene
Concen: 936.55 ng/ml
RT: 3.835 min Scan# 872
Delta R.T. 0.000 min
Lab File: ccv1219.D
Acq: 19 Dec 2024 07:05 am

Tgt Ion:165 Resp: 26697

Ion	Ratio	Lower	Upper
165	100		
89	58.3	45.8	68.8
63	60.9	46.3	69.5

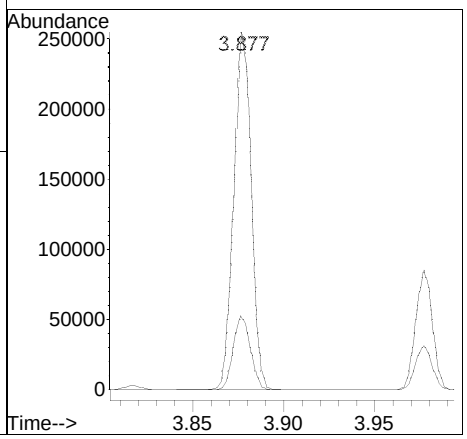


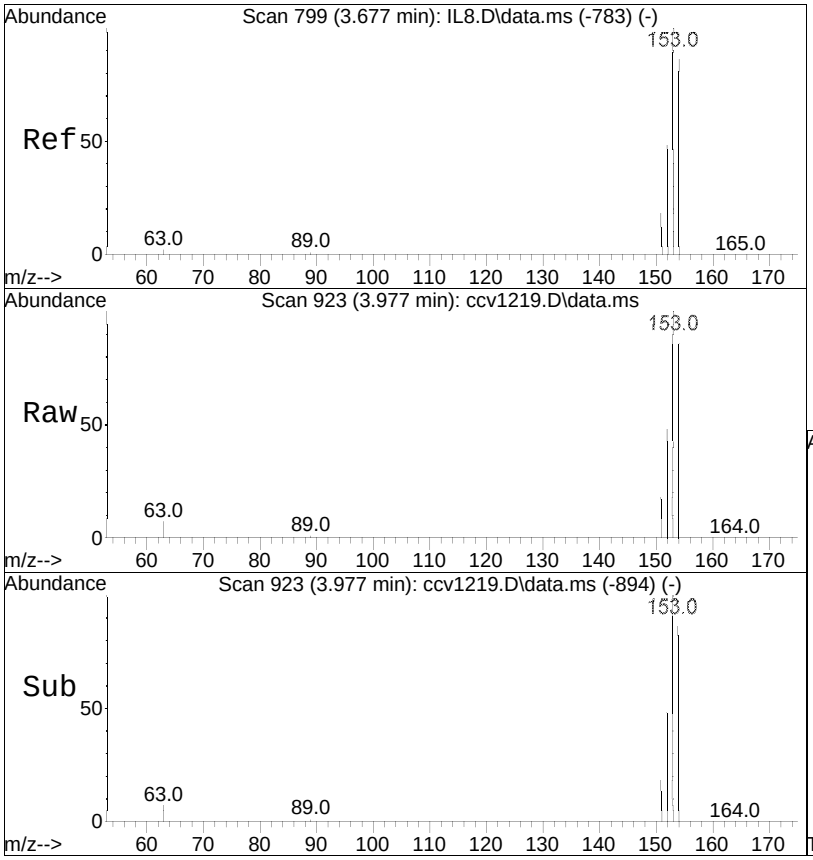


#16
Acenaphthylene
Concen: 927.93 ng/ml
RT: 3.877 min Scan# 887
Delta R.T. 0.000 min
Lab File: ccv1219.D
Acq: 19 Dec 2024 07:05 am

Tgt Ion:152 Resp: 168487

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.4	24.6

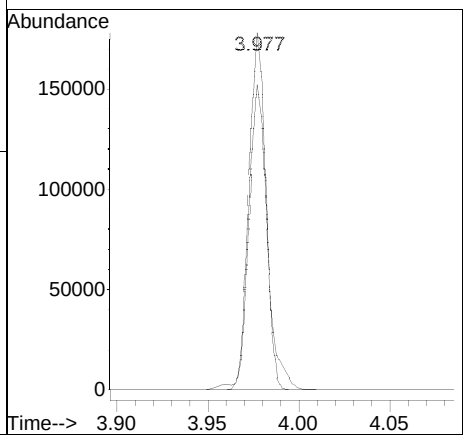


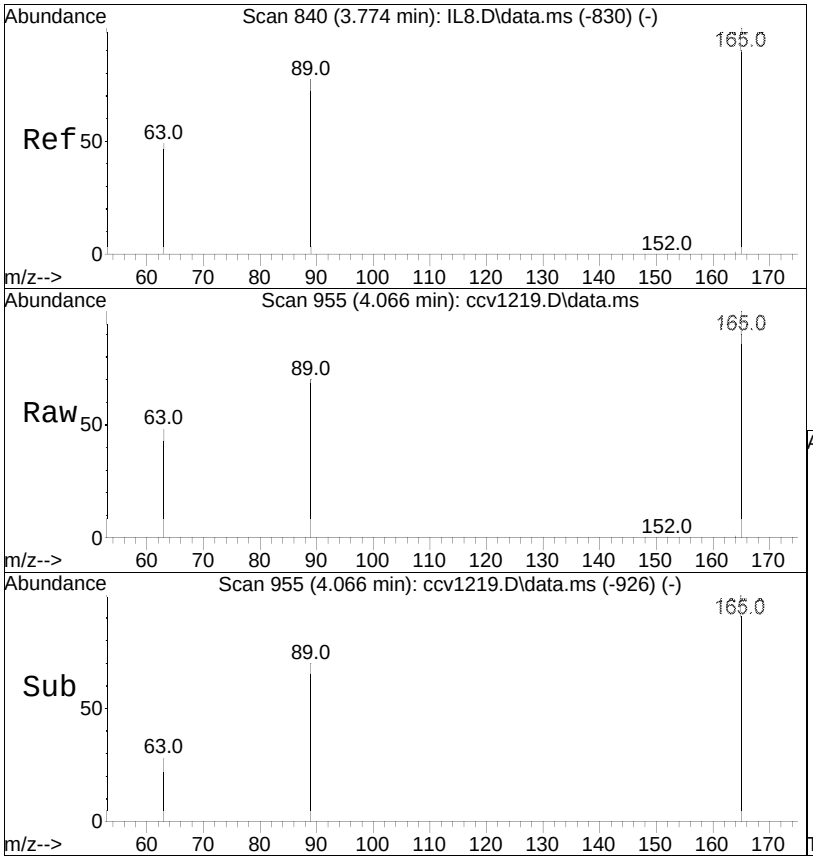


#18
Acenaphthene
Concen: 869.20 ng/ml
RT: 3.977 min Scan# 923
Delta R.T. 0.000 min
Lab File: ccv1219.D
Acq: 19 Dec 2024 07:05 am

Tgt Ion:153 Resp: 113254

Ion	Ratio	Lower	Upper
153	100		
154	93.8	69.8	104.6

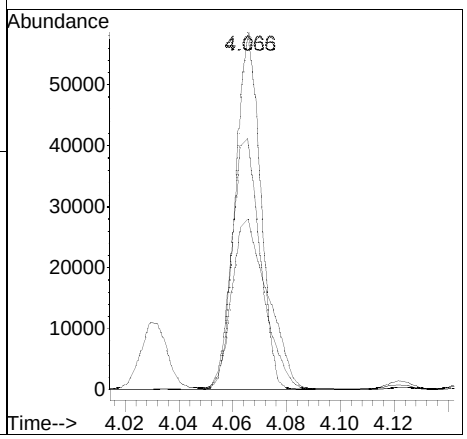


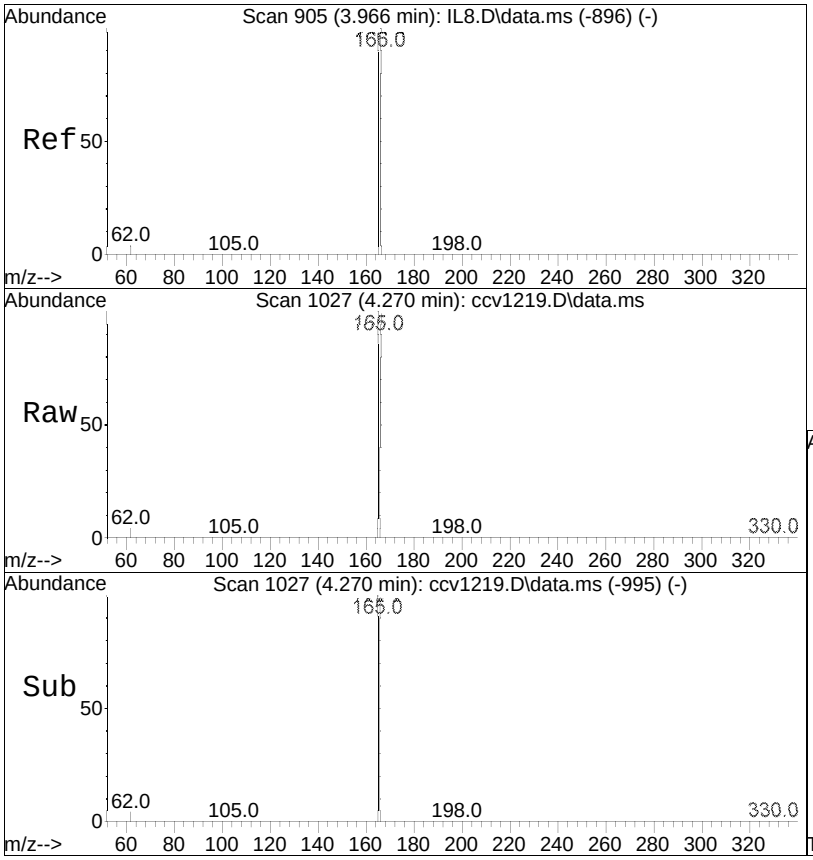


#19
2,4-Dinitrotoluene
Concen: 1028.00 ng/ml
RT: 4.066 min Scan# 955
Delta R.T. 0.000 min
Lab File: ccv1219.D
Acq: 19 Dec 2024 07:05 am

Tgt Ion:165 Resp: 37294

Ion	Ratio	Lower	Upper
165	100		
89	83.6	65.9	98.9
63	68.9	55.7	83.5

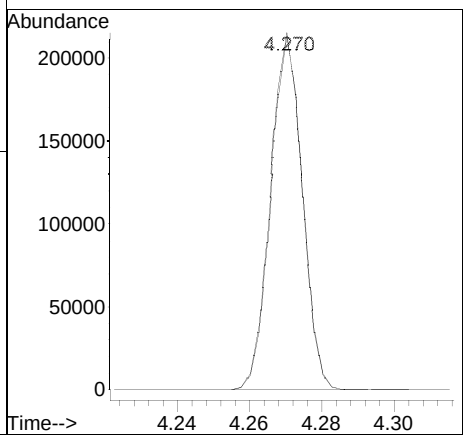


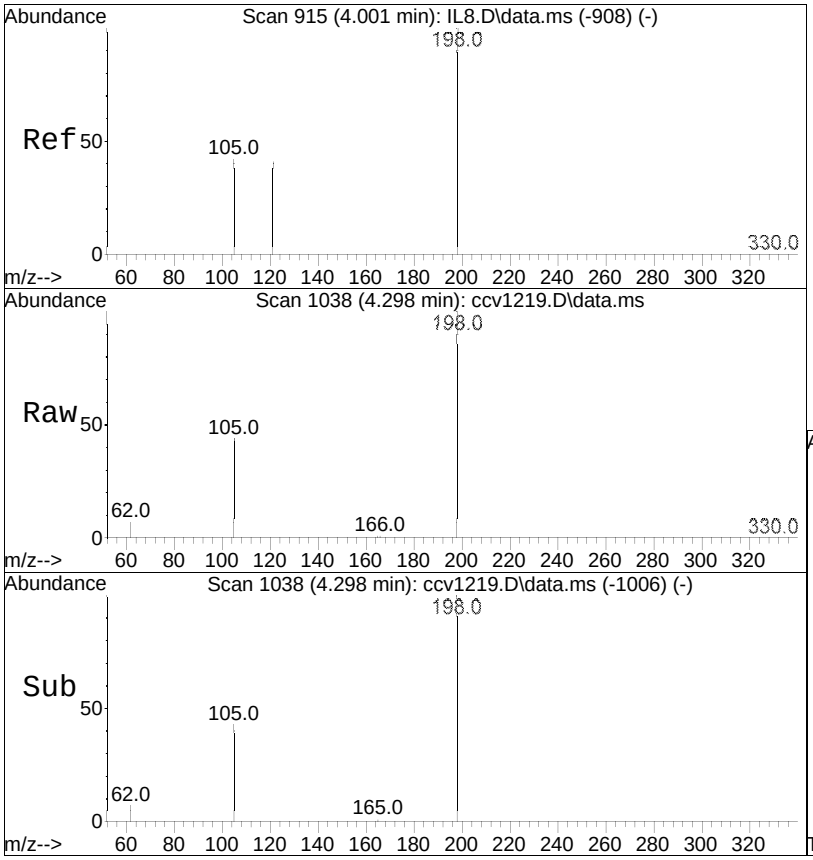


#20
Fluorene
Concen: 916.20 ng/ml
RT: 4.270 min Scan# 1027
Delta R.T. 0.000 min
Lab File: ccv1219.D
Acq: 19 Dec 2024 07:05 am

Tgt Ion:166 Resp: 129172

Ion	Ratio	Lower	Upper
166	100		
165	101.2	80.1	120.1

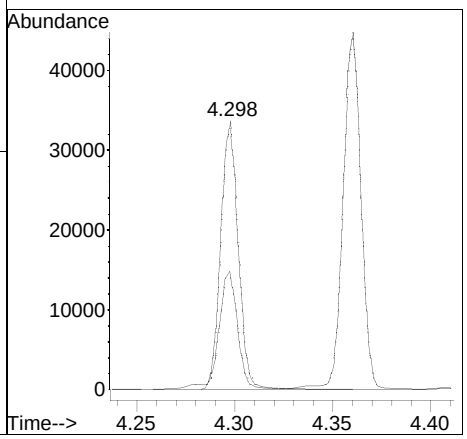


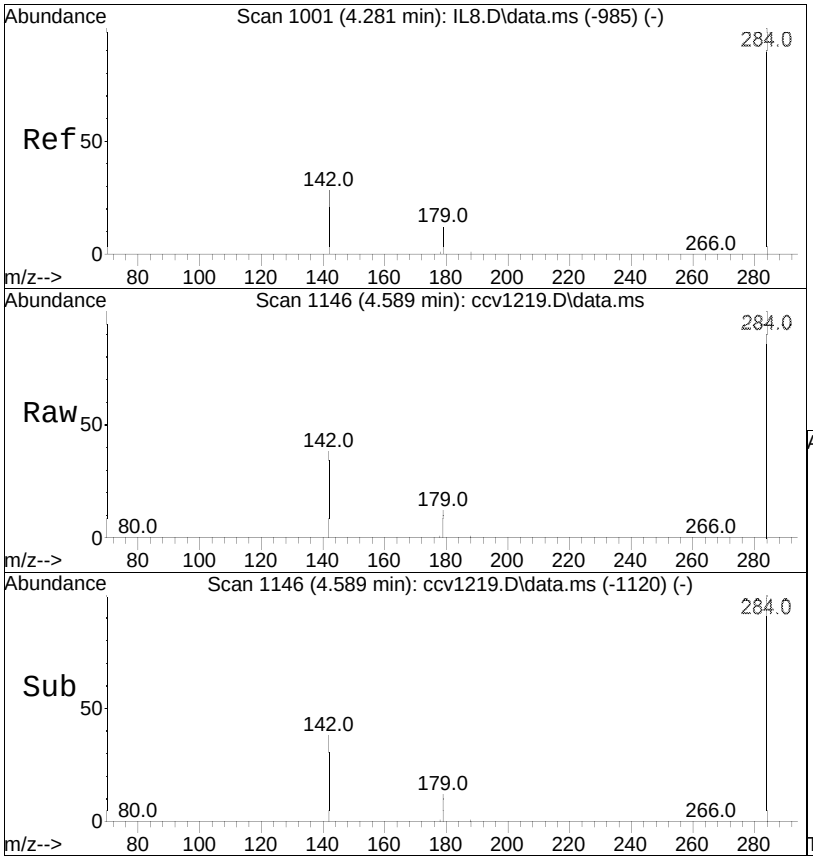


#23
4,6-Dinitro-o-cresol
Concen: 807.37 ng/ml
RT: 4.298 min Scan# 1038
Delta R.T. 0.000 min
Lab File: ccv1219.D
Acq: 19 Dec 2024 07:05 am

Tgt Ion:198 Resp: 20852

Ion	Ratio	Lower	Upper
198	100		
105	46.7	35.4	53.2

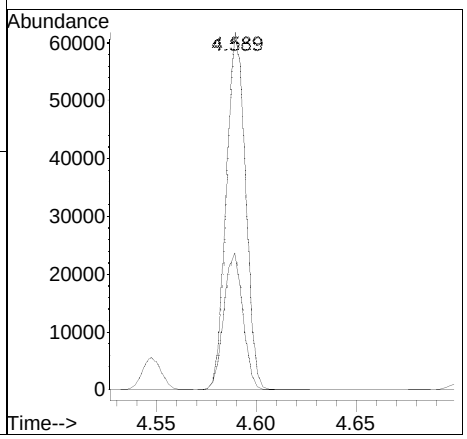


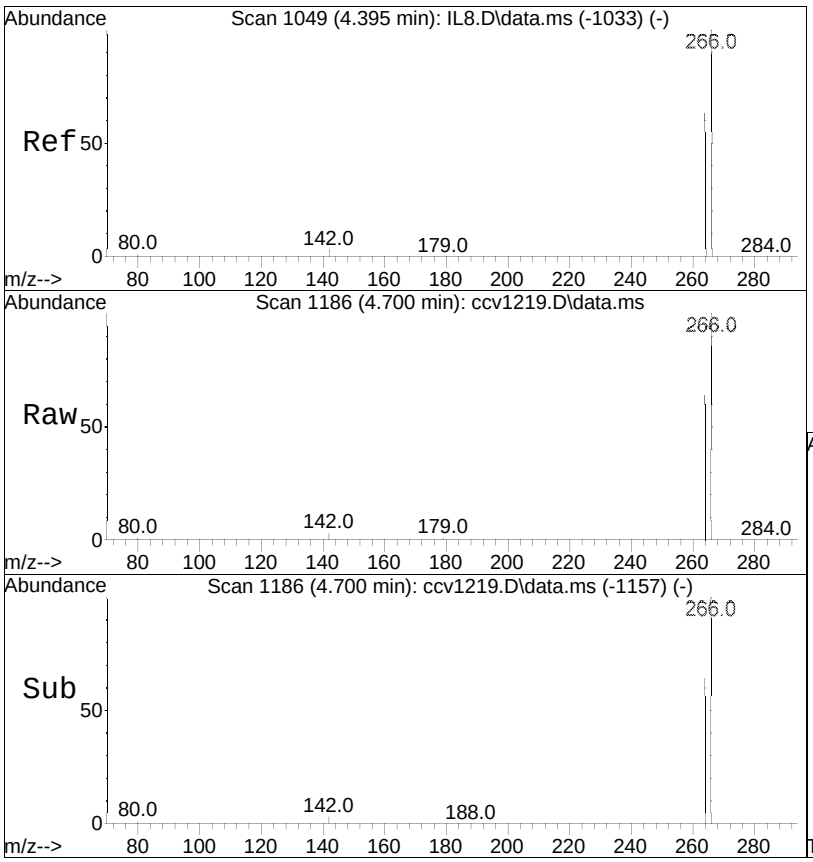


#24
Hexachlorobenzene
Concen: 877.34 ng/ml
RT: 4.589 min Scan# 1146
Delta R.T. 0.000 min
Lab File: ccv1219.D
Acq: 19 Dec 2024 07:05 am

Tgt Ion:284 Resp: 40684

Ion	Ratio	Lower	Upper
284	100		
142	38.1	30.2	45.2

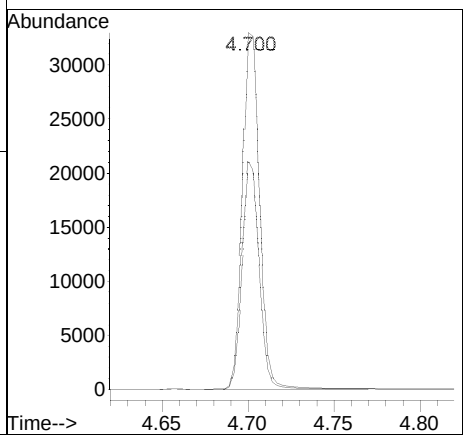


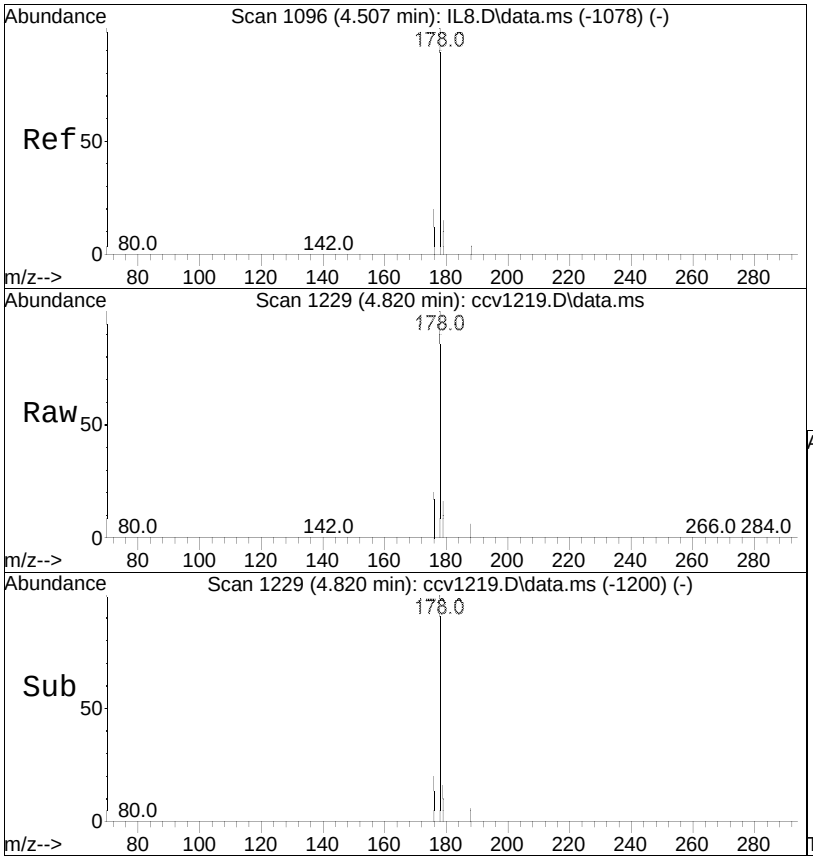


#25
Pentachlorophenol
Concen: 904.31 ng/ml
RT: 4.700 min Scan# 1186
Delta R.T. 0.000 min
Lab File: ccv1219.D
Acq: 19 Dec 2024 07:05 am

Tgt Ion:266 Resp: 22903

Ion	Ratio	Lower	Upper
266	100		
264	63.2	50.3	75.5

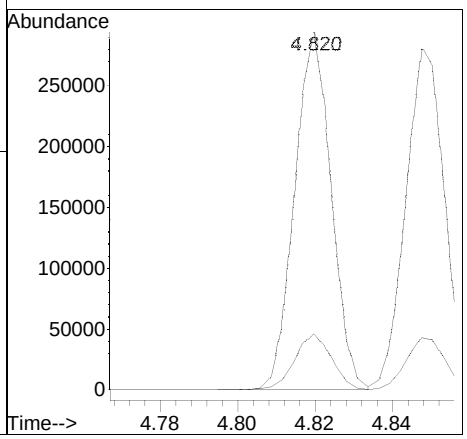


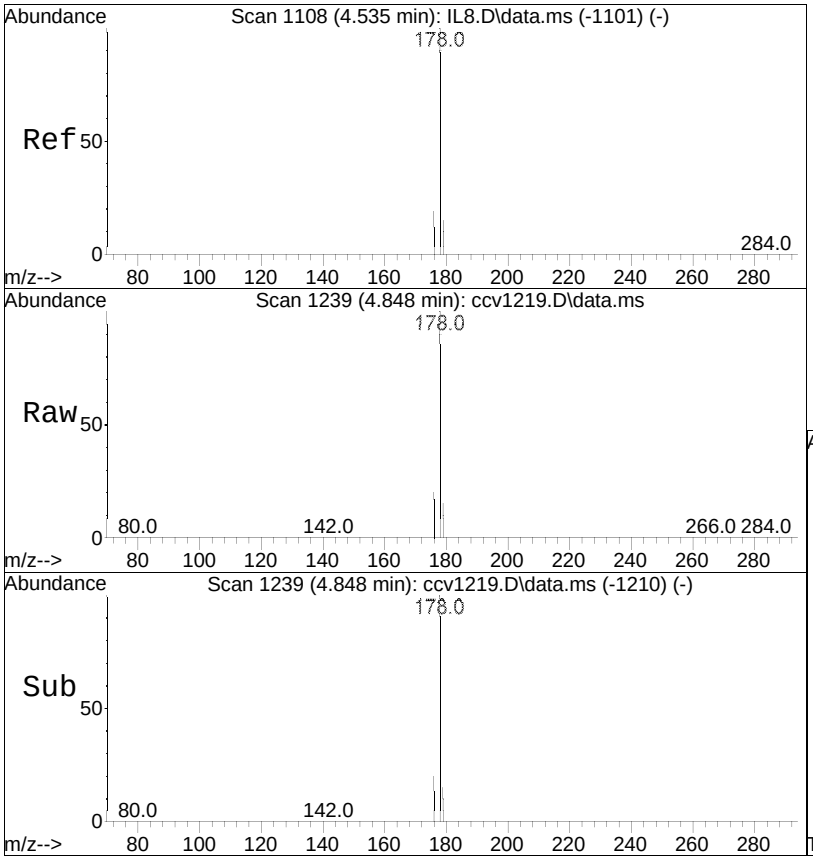


#26
Phenanthrene
Concen: 920.98 ng/ml
RT: 4.820 min Scan# 1229
Delta R.T. 0.000 min
Lab File: ccv1219.D
Acq: 19 Dec 2024 07:05 am

Tgt Ion:178 Resp: 192673

Ion	Ratio	Lower	Upper
178	100		
179	15.8	12.5	18.7

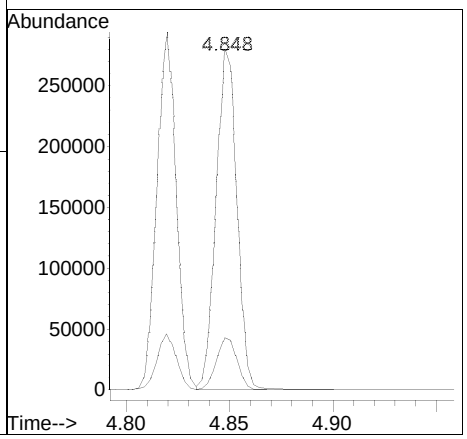


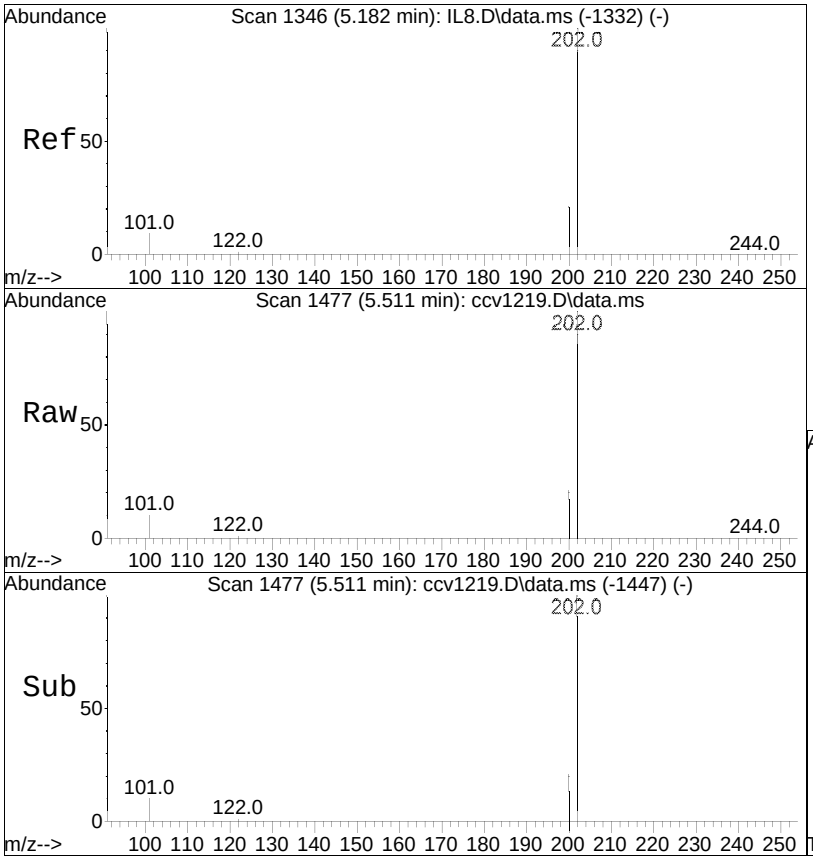


#27
Anthracene
Concen: 907.12 ng/ml
RT: 4.848 min Scan# 1239
Delta R.T. 0.000 min
Lab File: ccv1219.D
Acq: 19 Dec 2024 07:05 am

Tgt Ion:178 Resp: 196342

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.3	18.5

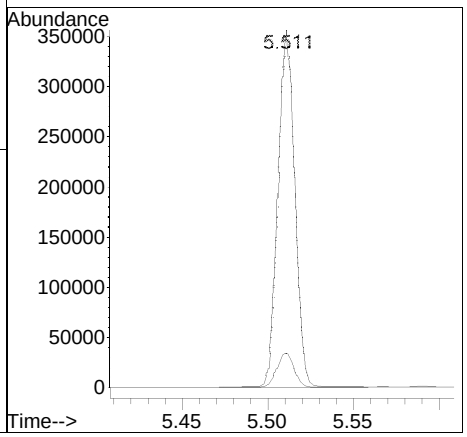


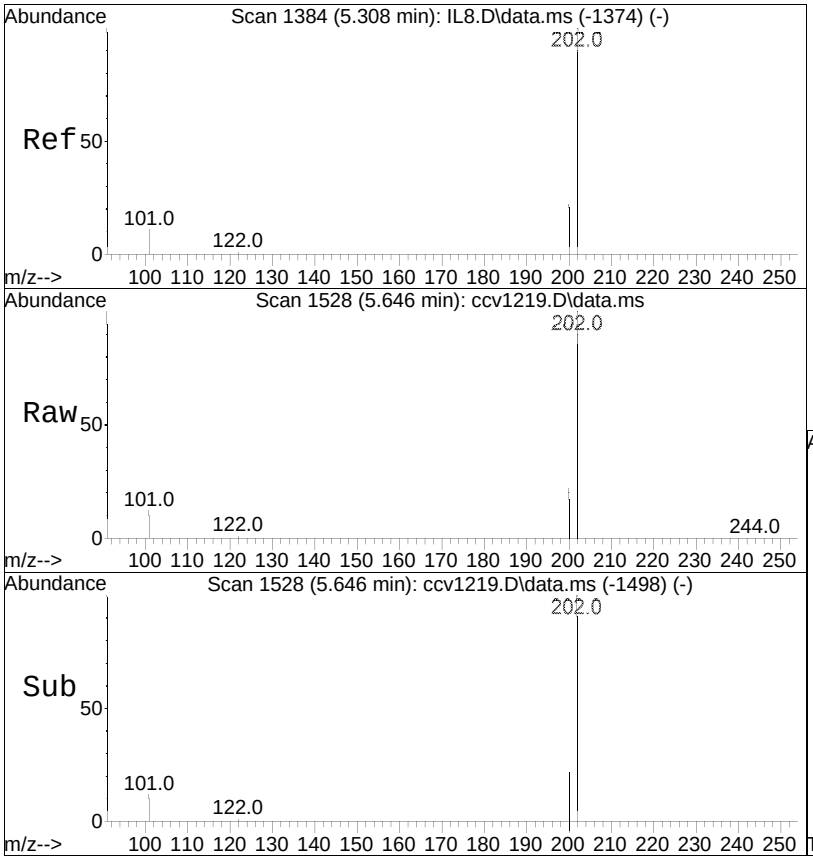


#28
Fluoranthene
Concen: 993.17 ng/ml
RT: 5.511 min Scan# 1477
Delta R.T. 0.000 min
Lab File: ccv1219.D
Acq: 19 Dec 2024 07:05 am

Tgt Ion:202 Resp: 239311

Ion	Ratio	Lower	Upper
202	100		
101	10.0	7.8	11.6

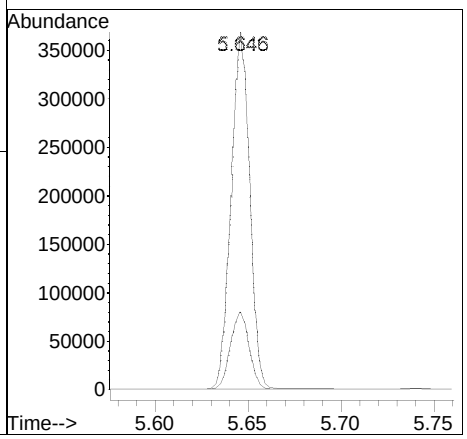


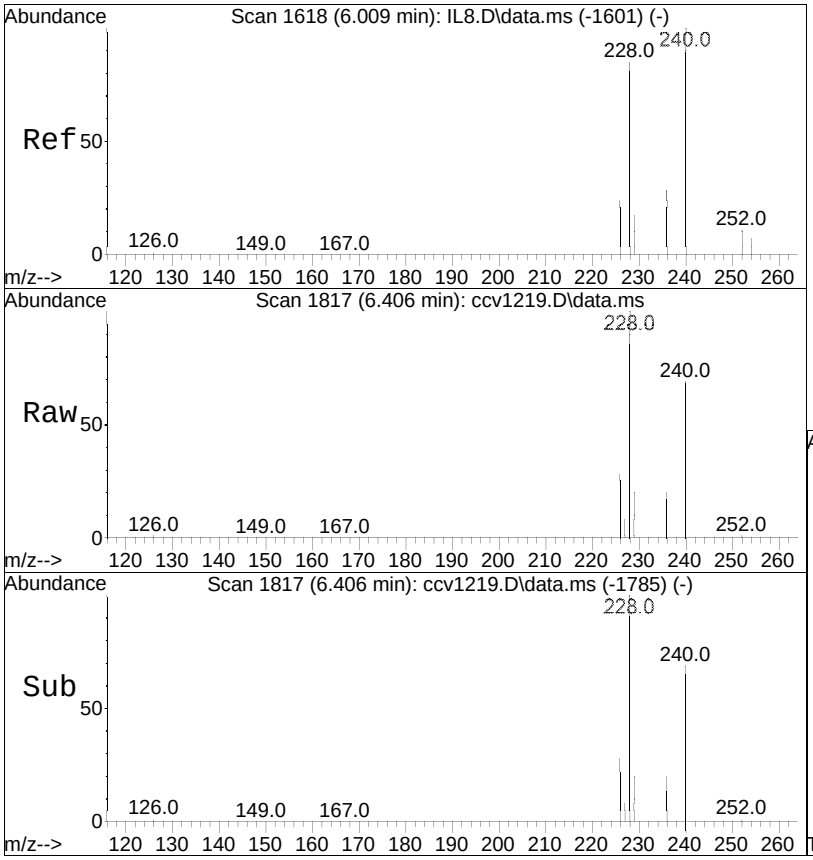


#29
Pyrene
Concen: 1015.91 ng/ml
RT: 5.646 min Scan# 1528
Delta R.T. 0.000 min
Lab File: ccv1219.D
Acq: 19 Dec 2024 07:05 am

Tgt Ion:202 Resp: 252417

Ion	Ratio	Lower	Upper
202	100		
200	21.9	17.5	26.3

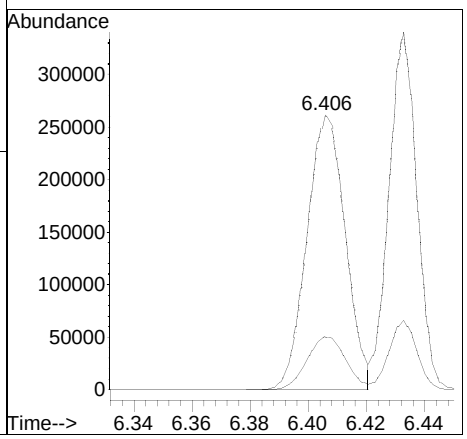


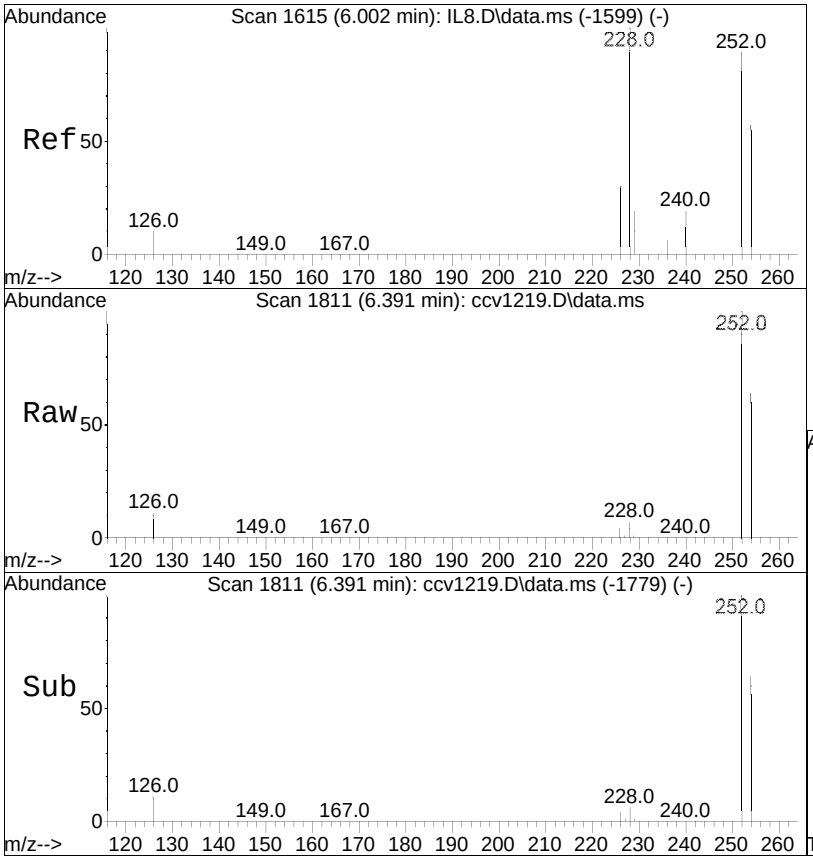


#32
Benzo[a]anthracene
Concen: 894.41 ng/ml
RT: 6.406 min Scan# 1817
Delta R.T. 0.000 min
Lab File: ccv1219.D
Acq: 19 Dec 2024 07:05 am

Tgt Ion:228 Resp: 240084

Ion	Ratio	Lower	Upper
228	100		
229	19.5	16.2	24.4

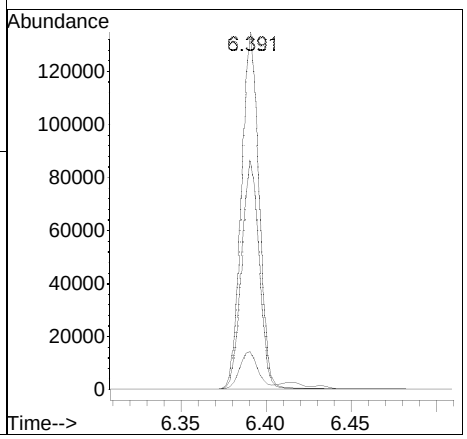


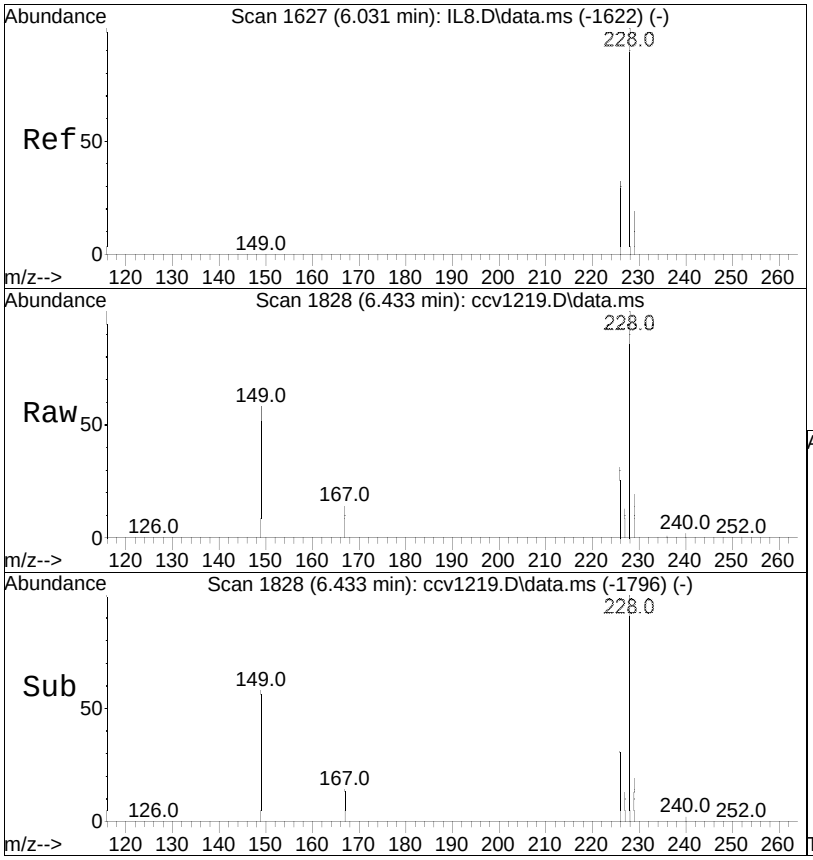


#33
3,3'-Dichlorobenzidine
Concen: 1015.22 ng/ml
RT: 6.391 min Scan# 1811
Delta R.T. 0.000 min
Lab File: ccv1219.D
Acq: 19 Dec 2024 07:05 am

Tgt Ion:252 Resp: 95792

Ion	Ratio	Lower	Upper
252	100		
126	11.2	10.9	16.3
254	64.4	51.4	77.2

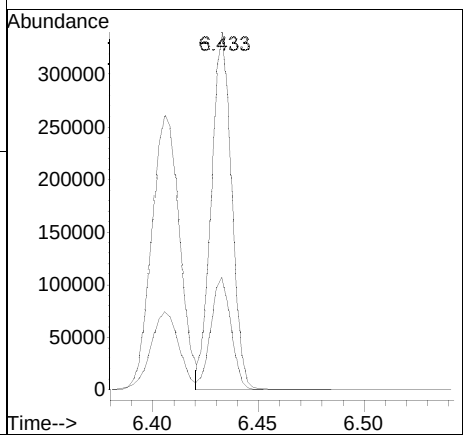


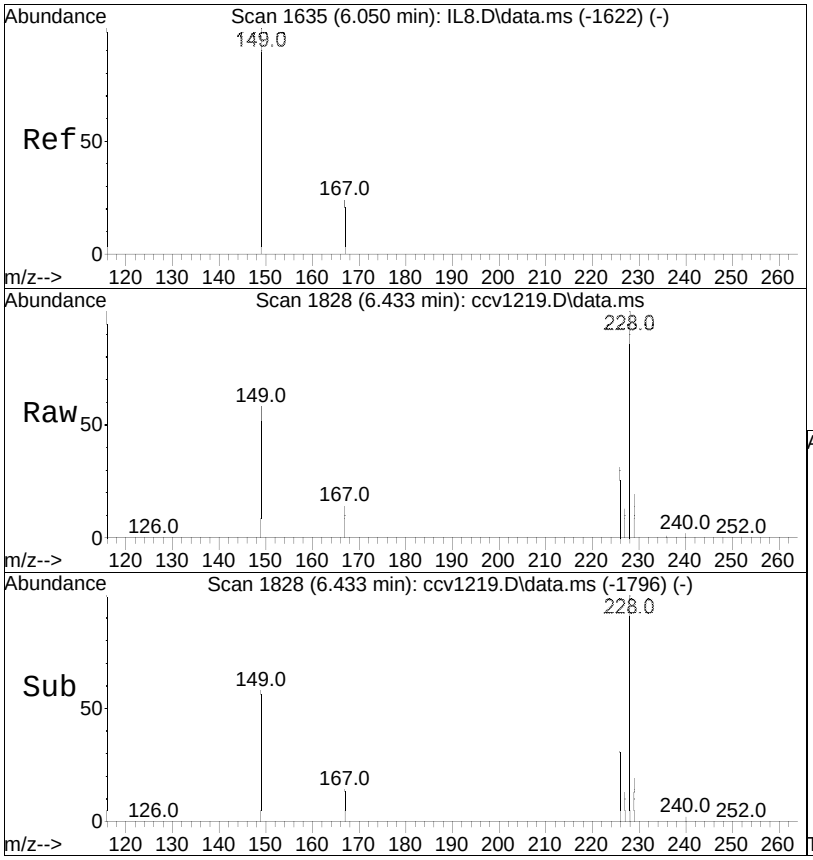


#34
Chrysene
Concen: 979.75 ng/ml
RT: 6.433 min Scan# 1828
Delta R.T. 0.000 min
Lab File: ccv1219.D
Acq: 19 Dec 2024 07:05 am

Tgt Ion:228 Resp: 226409

Ion	Ratio	Lower	Upper
228	100		
226	31.4	24.9	37.3

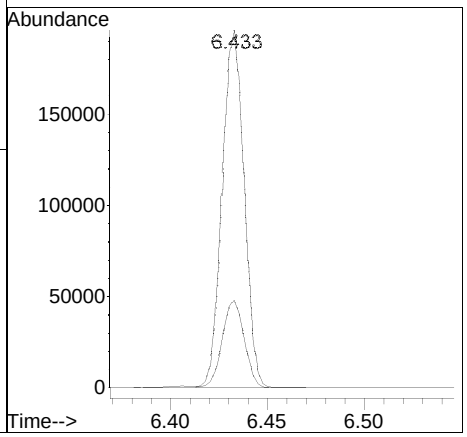


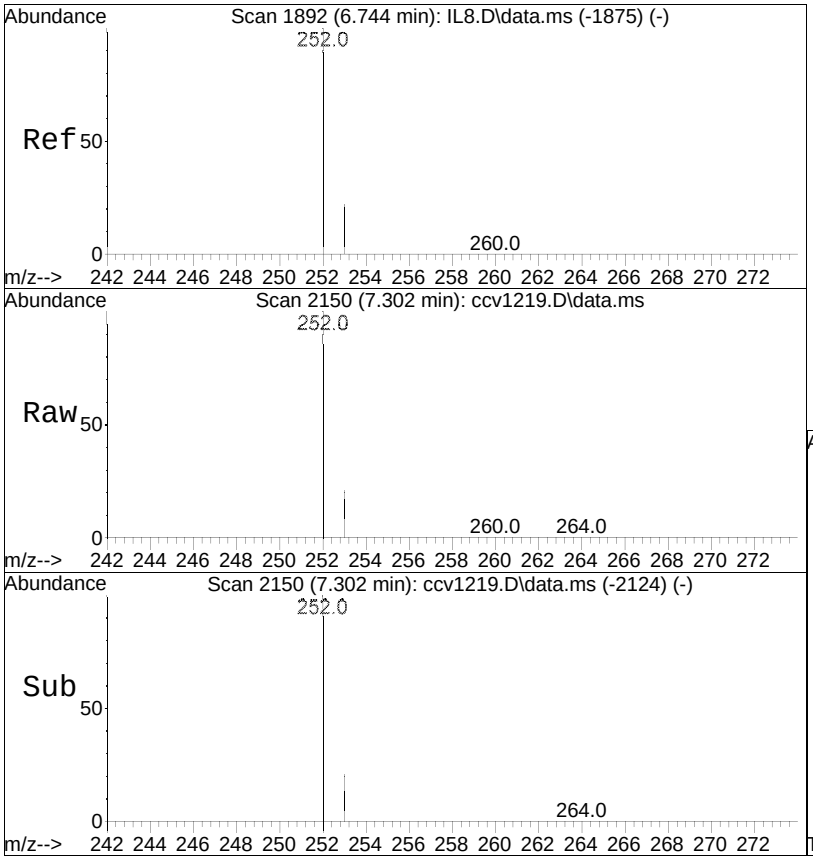


#35
Bis(2-ethylhexyl)phthalate
Concen: 987.62 ng/ml
RT: 6.433 min Scan# 1828
Delta R.T. 0.000 min
Lab File: ccv1219.D
Acq: 19 Dec 2024 07:05 am

Tgt Ion:149 Resp: 152554

Ion	Ratio	Lower	Upper
149	100		
167	24.7	19.6	29.4

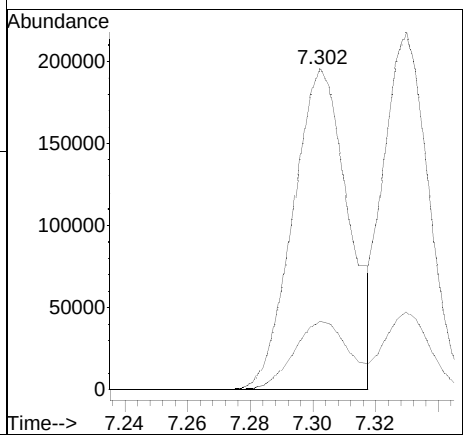


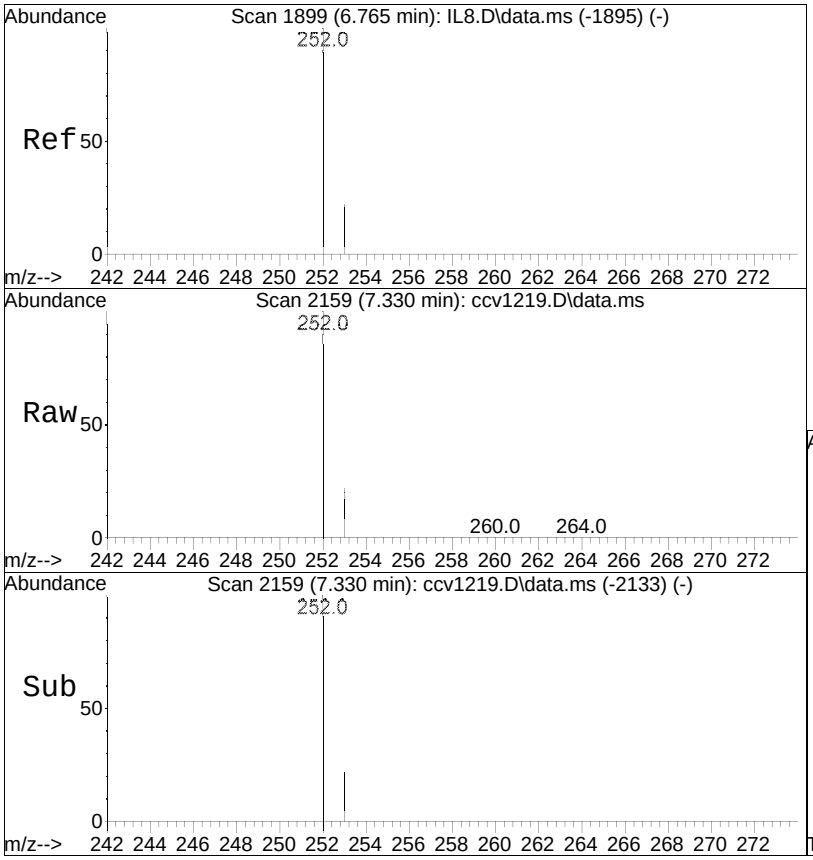


#37
Benzo[b]fluoranthene
Concen: 922.85 ng/ml
RT: 7.302 min Scan# 2150
Delta R.T. 0.000 min
Lab File: ccv1219.D
Acq: 19 Dec 2024 07:05 am

Tgt Ion:252 Resp: 240958

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.4	26.0

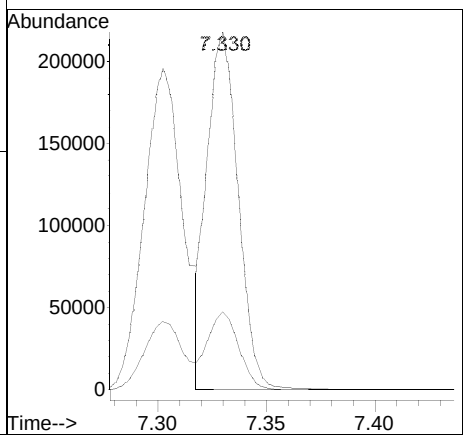


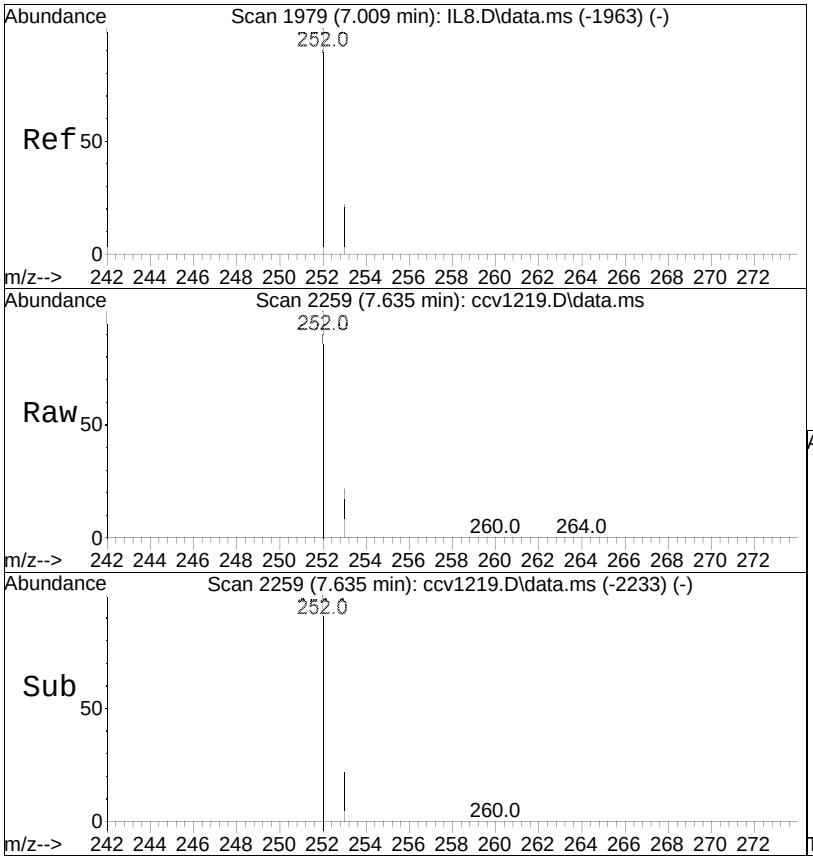


#38
Benzo[k]fluoranthene
Concen: 916.17 ng/ml
RT: 7.330 min Scan# 2159
Delta R.T. 0.000 min
Lab File: ccv1219.D
Acq: 19 Dec 2024 07:05 am

Tgt Ion:252 Resp: 215050

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.6	26.4

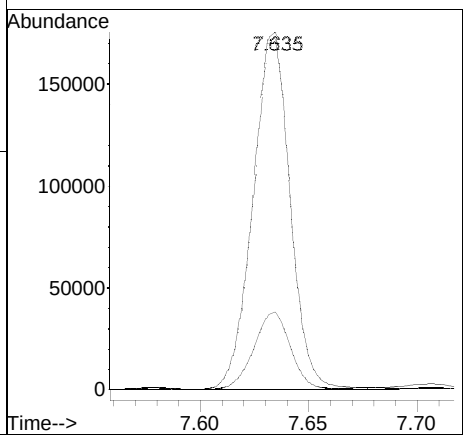


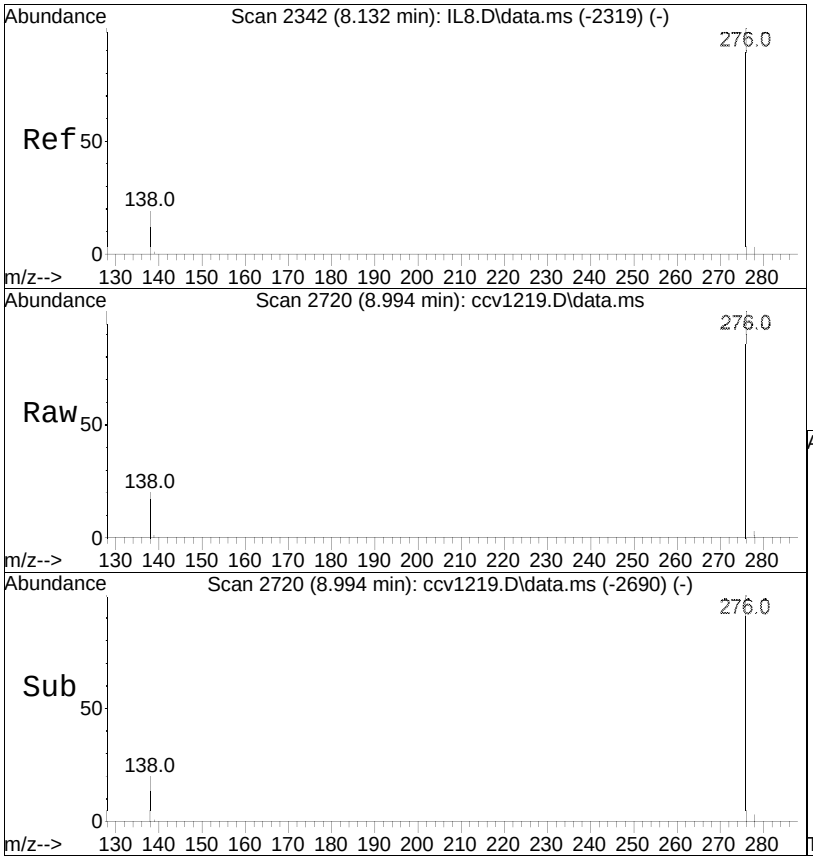


#39
Benzo[a]pyrene
Concen: 964.21 ng/ml
RT: 7.635 min Scan# 2259
Delta R.T. 0.000 min
Lab File: ccv1219.D
Acq: 19 Dec 2024 07:05 am

Tgt Ion:252 Resp: 206211

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.2

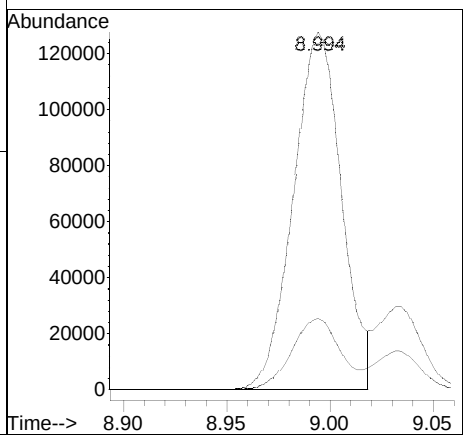


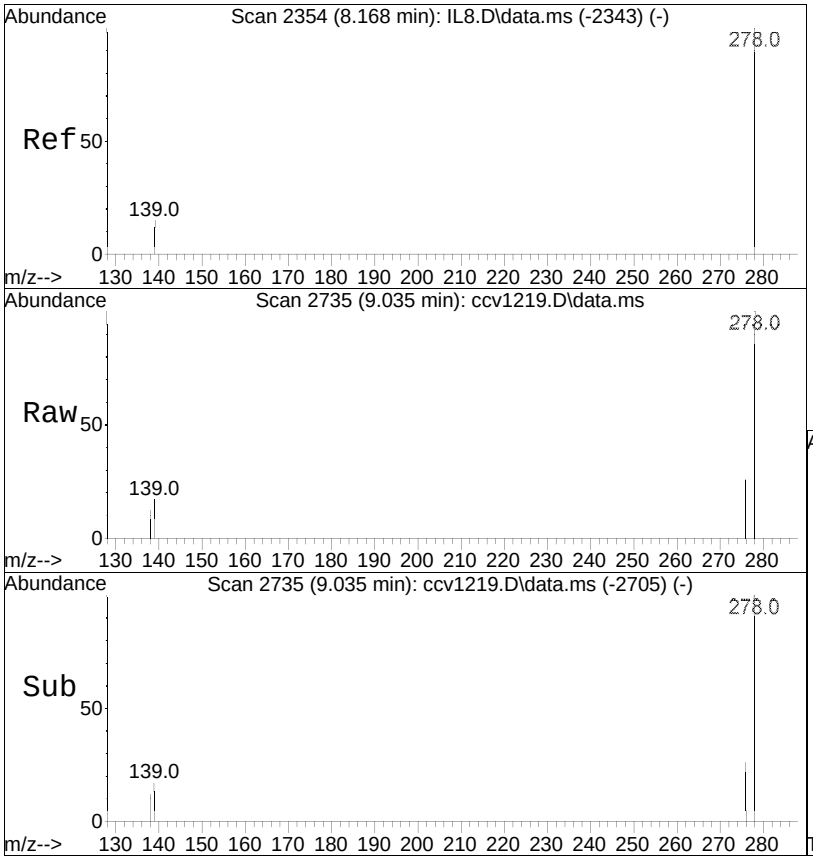


#40
Indeno[1,2,3-cd]pyrene
Concen: 942.96 ng/ml
RT: 8.994 min Scan# 2720
Delta R.T. 0.000 min
Lab File: ccv1219.D
Acq: 19 Dec 2024 07:05 am

Tgt Ion:276 Resp: 206212

Ion	Ratio	Lower	Upper
276	100		
138	19.8	15.4	23.0

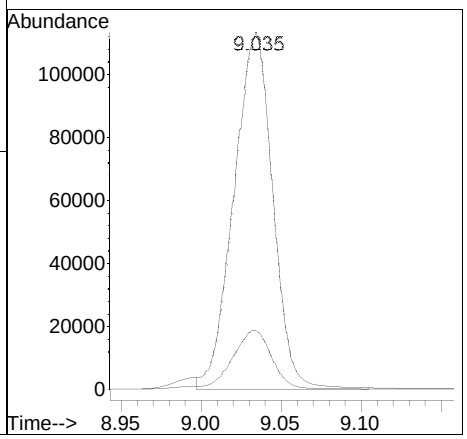


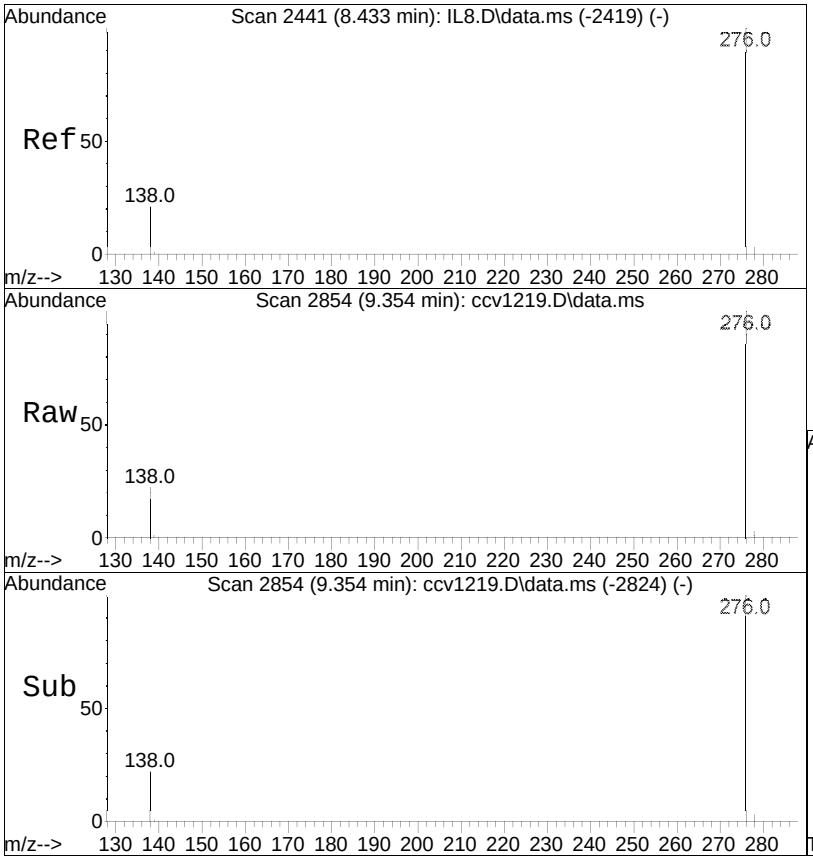


#41
Dibenzo[a,h]anthracene
Concen: 927.88 ng/ml M6
RT: 9.035 min Scan# 2735
Delta R.T. 0.000 min
Lab File: ccv1219.D
Acq: 19 Dec 2024 07:05 am

Tgt Ion:278 Resp: 190626

Ion	Ratio	Lower	Upper
278	100		
139	17.1	13.0	19.6

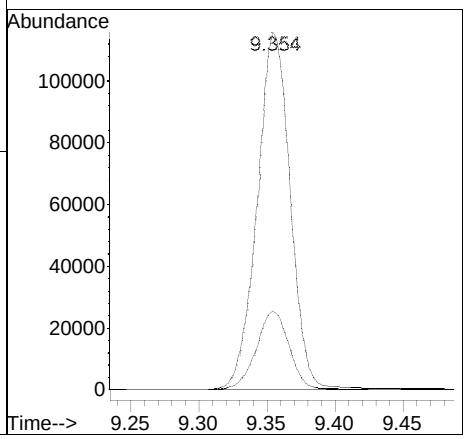




#42
Benzo[g,h,i]perylene
Concen: 902.43 ng/ml
RT: 9.354 min Scan# 2854
Delta R.T. 0.000 min
Lab File: ccv1219.D
Acq: 19 Dec 2024 07:05 am

Tgt Ion:276 Resp: 191670

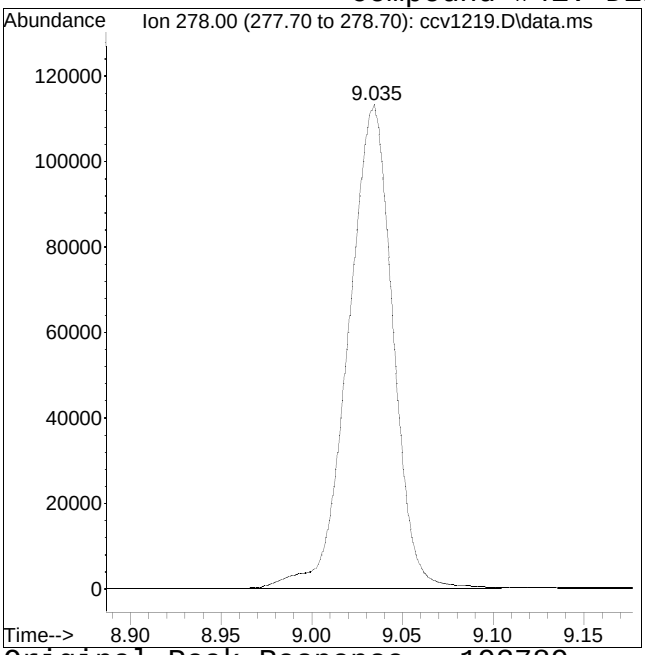
Ion	Ratio	Lower	Upper
276	100		
138	22.0	16.6	25.0



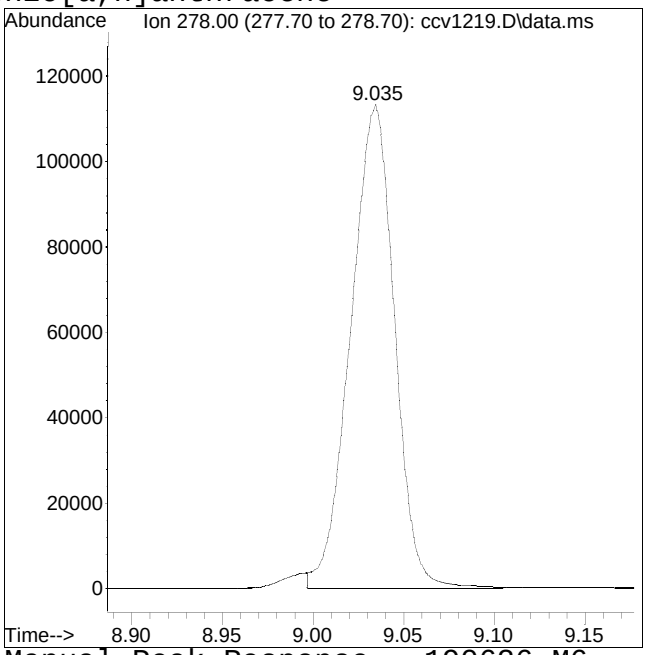
Manual Integration Report

Data Path : I:\8270SIM\sv120\241219RVTQMethod : SIM-RVT_241105_sv120.M
Data File : ccv1219.D Operator : SV120:kmh
Date Inj'd : 12/19/2024 7:05 am Instrument : SV120
Sample : wg2011166-3,32,,ICV 10884 Quant Date : 12/19/2024 7:32 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 193789



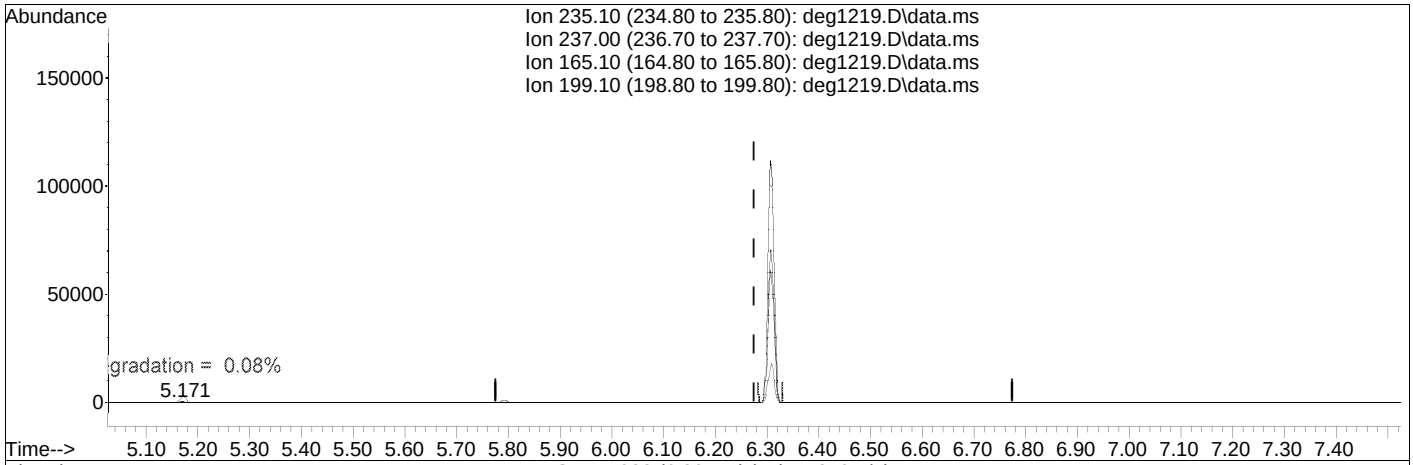
Manual Peak Response = 190626 M6

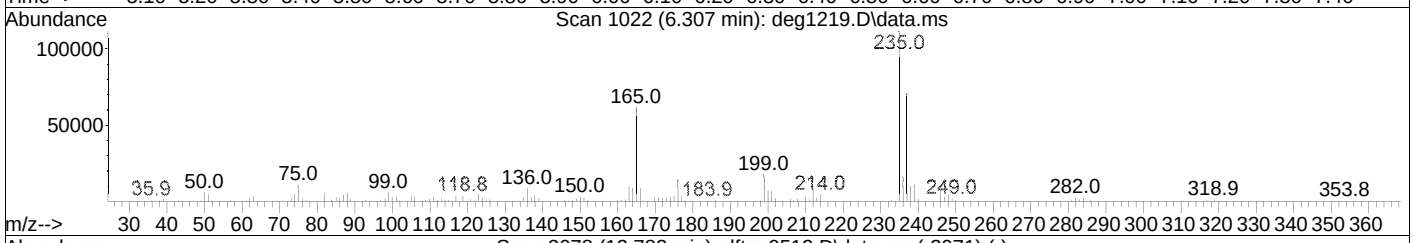
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

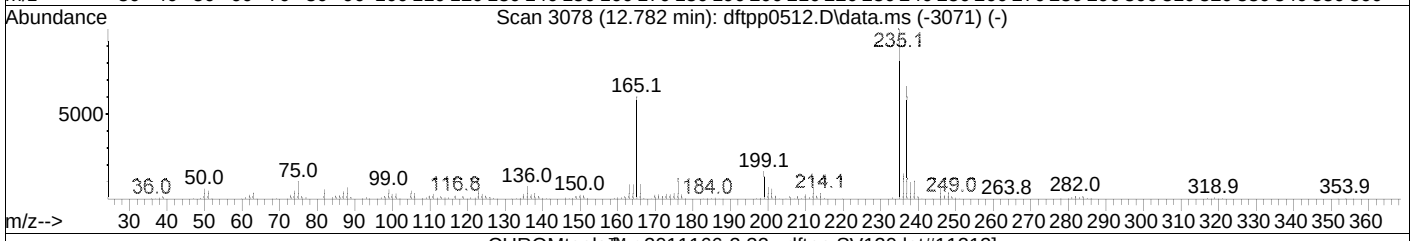
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\241219RVT\
Data File : deg1219.D
Acq On : 19 Dec 2024 06:47 am
Operator : SV120:kmh
Sample : wg2011166-2,32,, dftpp SV120 lot#11212
Misc : wg2011166,,ical21668
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 19 07:01:02 2024
Quant Method : I:\8270SIM\sv120\241219RVT\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Nov 23 13:40:48 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







CHROMtools [wg2011166-2,32,, dftpp SV120 lot#11212]

(6) ddt (T)

6.307min (+ 0.032) 14.40

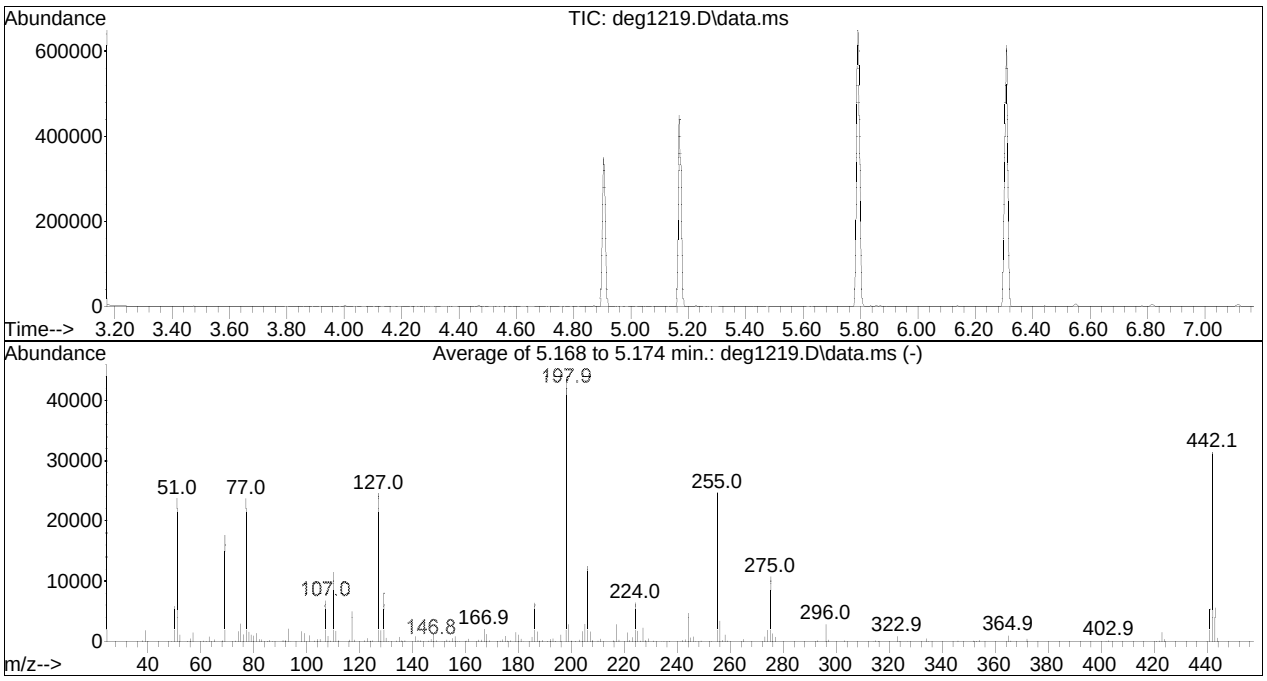
response 87796

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	62.94
165.10	53.30	54.76
199.10	17.10	15.76

Data Path : I:\8270SIM\sv120\241219RVT\
Data File : deg1219.D
Acq On : 19 Dec 2024 06:47 am
Operator : SV120:kmh
Sample : wg2011166-1,32,, dftpp SV120 lot#11212
Misc : wg2011166,,ical21668
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv120\241219RVT\SIM-RVT_241105_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Dec 19 07:31:52 2024



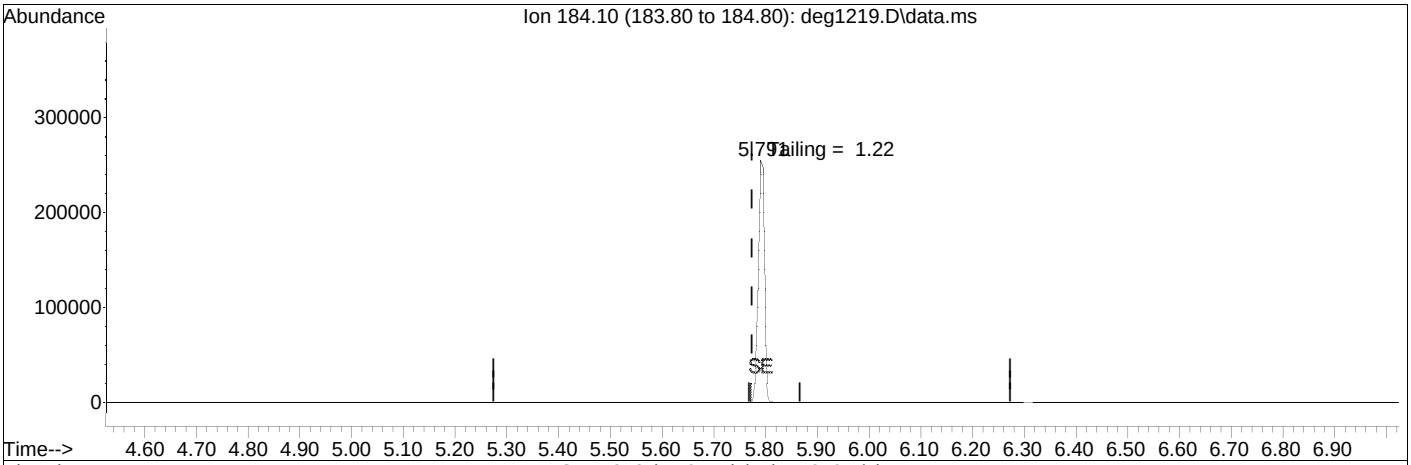
Spectrum Information: Average of 5.168 to 5.174 min.

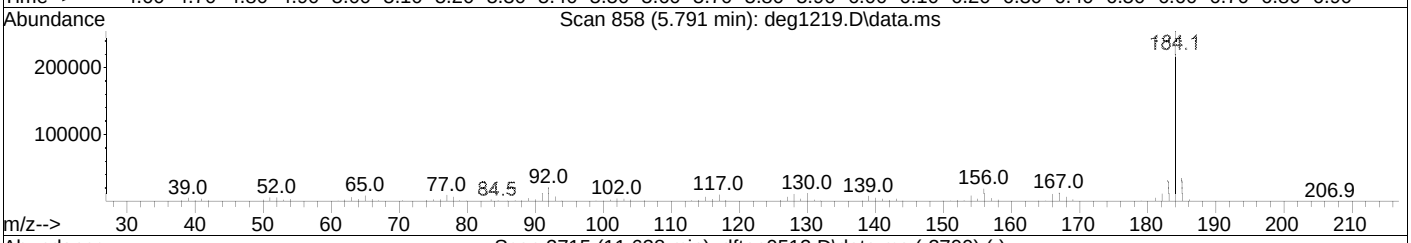
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	54.1	23725	PASS
68	69	0.00	2	1.6	273	PASS
69	69	100	100	100.0	17565	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	56.1	24573	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	43824	PASS
199	198	5	9	6.5	2864	PASS
275	198	10	60	24.5	10758	PASS
365	198	1	100	2.4	1049	PASS
441	442	0.01	24	17.3	5442	PASS
442	198	50	100	71.7	31440	PASS
443	442	15	24	17.7	5563	PASS

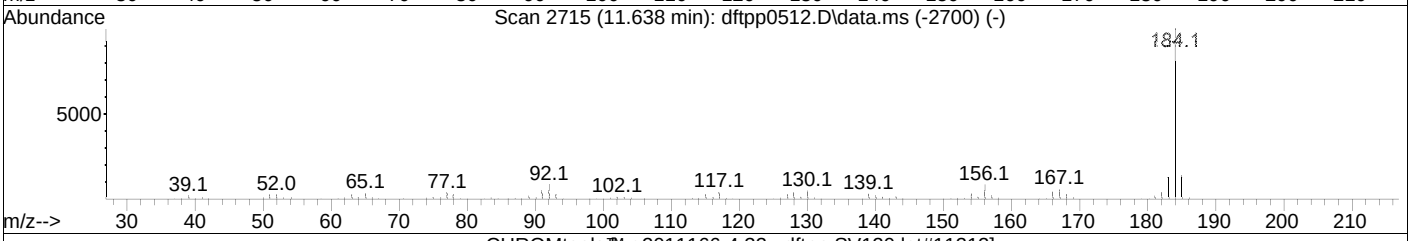
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\241219RVT\
Data File : deg1219.D
Acq On : 19 Dec 2024 06:47 am
Operator : SV120:kmh
Sample : wg2011166-4,32,, dftpp SV120 lot#11212
Misc : wg2011166,,ical21668
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 19 07:01:02 2024
Quant Method : I:\8270SIM\sv120\241219RVT\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Nov 23 13:40:48 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







CHROMtools [wg2011166-4,32,, dftpp SV120 lot#11212]

(3) benzidine (T)

5.791min (+ 0.017) 19.82

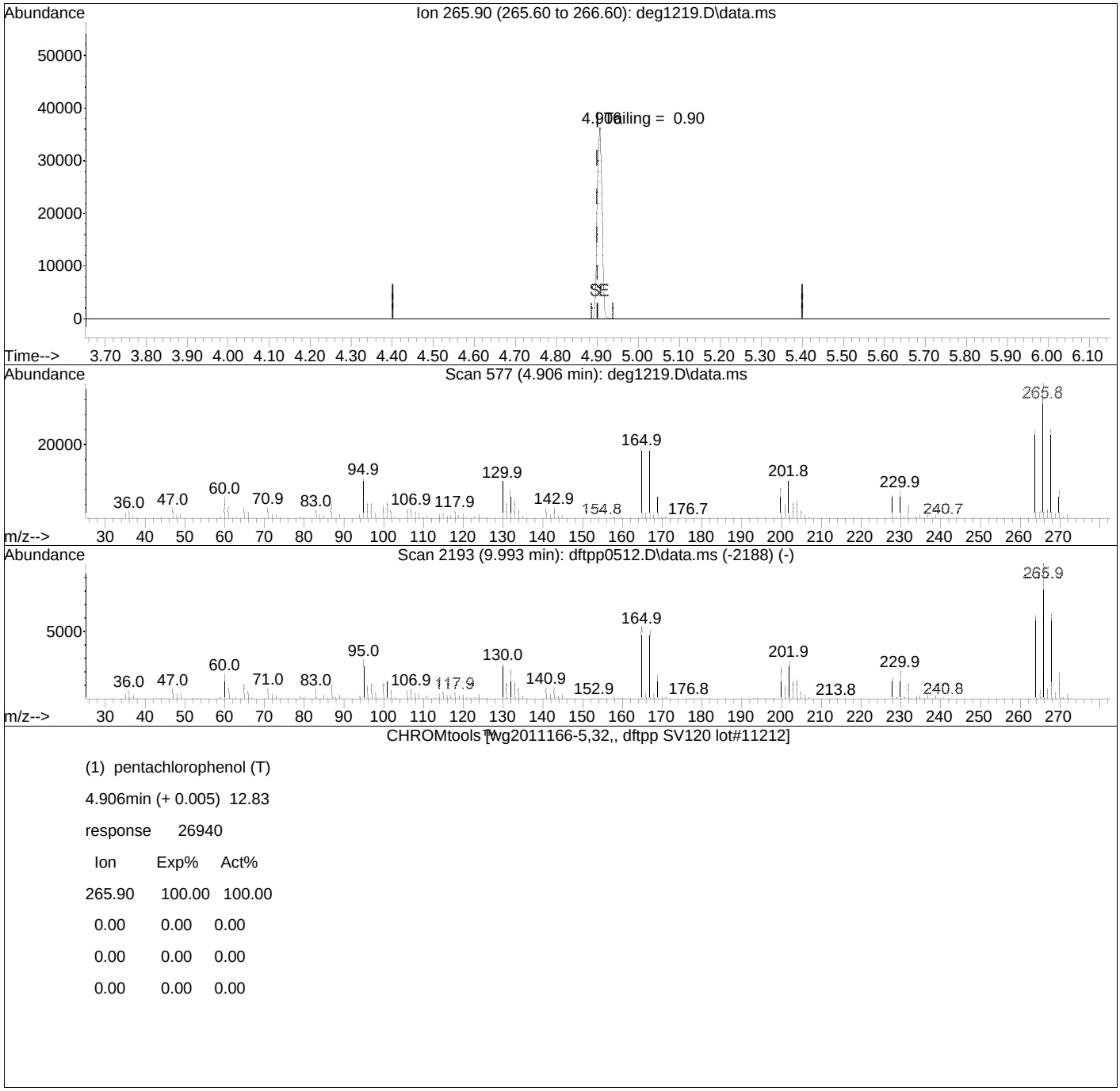
response 201727

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\sv120\241219RVT\
Data File : deg1219.D
Acq On : 19 Dec 2024 06:47 am
Operator : SV120:kmh
Sample : wg2011166-5,32,, dftpp SV120 lot#11212
Misc : wg2011166,,ical21668
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 19 07:01:02 2024
Quant Method : I:\8270SIM\sv120\241219RVT\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Nov 23 13:40:48 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



CHROMtools [wg2011166-5,32,, dftpp SV120 lot#11212]

(1) pentachlorophenol (T)

4.906min (+ 0.005) 12.83

response 26940

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\sv120\241219RVT\
Data File : 010762-1.D
Acq On : 19 Dec 2024 08:57 am
Operator : SV120:slr
Sample : WG2010762-1,32,,kmh
Misc : WG2011166,WG2010762,ical21668
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 19 13:30:29 2024
Quant Method : I:\8270sim\sv120\241219RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 19 07:31:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\241219RVT\ccv1219.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.318	152	155263	4000.000	ng/ml	0.00
Standard Area 1 = 183438			Recovery = 84.64%			
8) Naphthalene-d8	2.979	136	604218	4000.000	ng/ml	0.00
Standard Area 1 = 731006			Recovery = 82.66%			
17) Acenaphthene-d10	3.960	164	341988	4000.000	ng/ml	0.00
Standard Area 1 = 431670			Recovery = 79.22%			
22) Phenanthrene-d10	4.804	188	664718	4000.000	ng/ml	0.00
Standard Area 1 = 877889			Recovery = 75.72%			
31) Chrysene-d12	6.387	240	623597	4000.000	ng/ml	-0.03
Standard Area 1 = 872898			Recovery = 71.44%			
36) Perylene-d12	7.676	264	608963	4000.000	ng/ml	-0.03
Standard Area 1 = 860499			Recovery = 70.77%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.742	112	40658	889.647	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 44.48%			
3) Phenol-d6	2.132	99	36668	652.983	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 32.65%			
7) Nitrobenzene-d5	2.597	82	32765	660.935	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 66.09%			
13) 2-Fluorobiphenyl	3.575	172	76866	631.169	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 63.12%			
21) 2,4,6-Tribromophenol	4.406	330	15752	1157.052	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 57.85%			
30) 4-Terphenyl-d14	5.725	244	93208	771.158	ng/ml	-0.02
Spiked Amount 2000.000	Range 30 - 130		Recovery = 38.56%			

Target Compounds				Qvalue
4) Bis(2-chloroethyl)ether	0.000	0	N.D.	
6) Hexachloroethane	0.000	0	N.D.	
9) Naphthalene	0.000	0	N.D.	d
10) Hexachlorobutadiene	0.000	0	N.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.	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\241219RVT\
Data File : 010762-1.D
Acq On : 19 Dec 2024 08:57 am
Operator : SV120:slr
Sample : WG2010762-1,32,,kmh
Misc : WG2011166,WG2010762,ical21668
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 19 13:30:29 2024
Quant Method : I:\8270sim\sv120\241219RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 19 07:31:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\241219RVT\ccv1219.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.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	

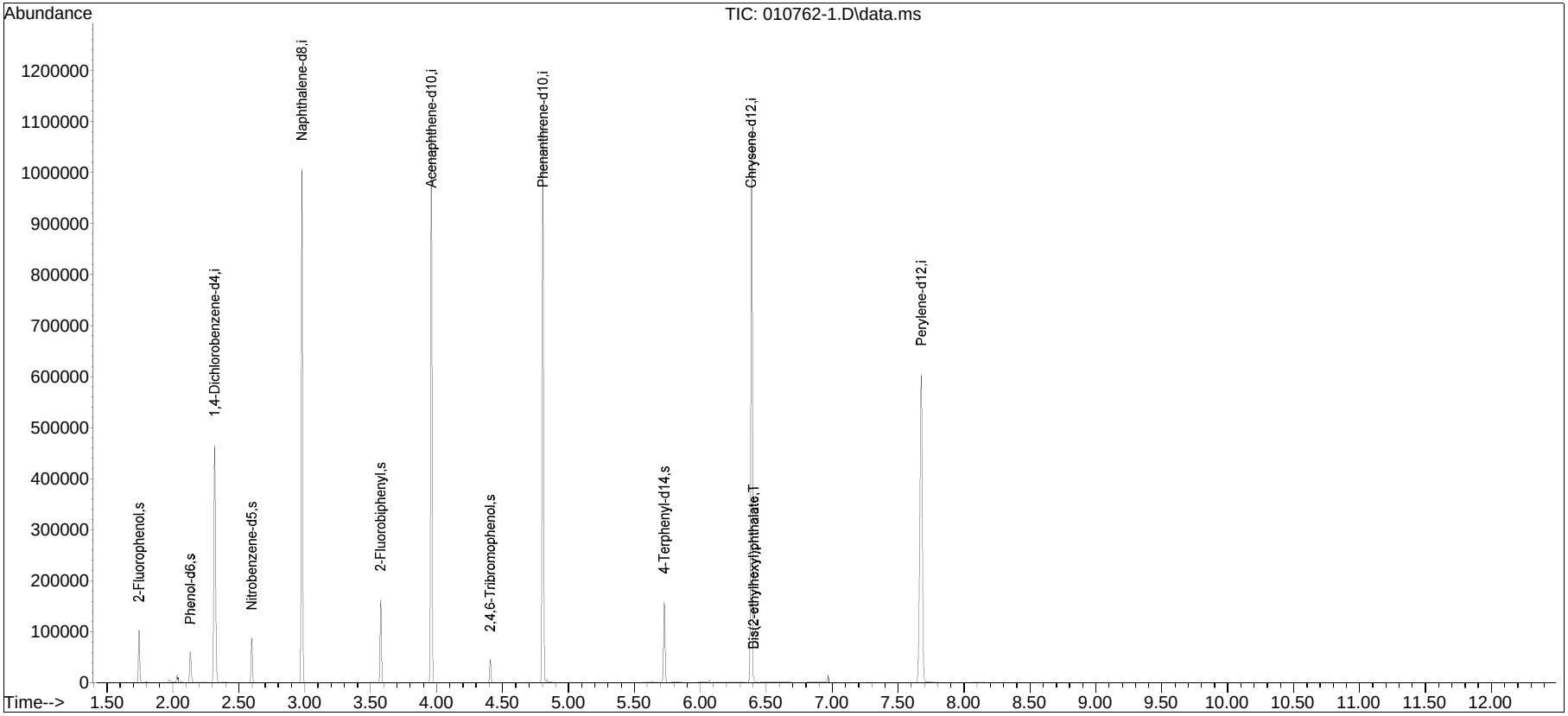
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\241219RVT\
Data File : 010762-1.D
Acq On : 19 Dec 2024 08:57 am
Operator : SV120:slr
Sample : WG2010762-1,32,,kmh
Misc : WG2011166,WG2010762,ical21668
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 19 13:30:29 2024
Quant Method : I:\8270sim\sv120\241219RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 19 07:31:52 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv1219.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv120\241219RVTQ	Method	: SIM-RVT_241105_sv120.M
Data File	: 010762-1.D	Operator	: SV120:slr
Date Inj'd	: 12/19/2024 8:57 am	Instrument	: SV120
Sample	: WG2010762-1,32,,kmh	Quant Date	: 12/19/2024 9:10 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\241219RVT\
Data File : 010762-2.D
Acq On : 19 Dec 2024 08:25 am
Operator : SV120:slr
Sample : WG2010762-2,32,,kmh
Misc : WG2011166,WG2010762,ical21668
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 19 08:36:25 2024
Quant Method : I:\8270sim\sv120\241219RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 19 07:31:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\241219RVT\ccv1219.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.321	152	157354	4000.000	ng/ml	0.00
Standard Area 1 = 183438			Recovery = 85.78%			
8) Naphthalene-d8	2.979	136	637480	4000.000	ng/ml	# 0.00
Standard Area 1 = 731006			Recovery = 87.21%			
17) Acenaphthene-d10	3.960	164	350936	4000.000	ng/ml	0.00
Standard Area 1 = 431670			Recovery = 81.30%			
22) Phenanthrene-d10	4.804	188	676506	4000.000	ng/ml	0.00
Standard Area 1 = 877889			Recovery = 77.06%			
31) Chrysene-d12	6.394	240	609322	4000.000	ng/ml	-0.02
Standard Area 1 = 872898			Recovery = 69.80%			
36) Perylene-d12	7.682	264	625066	4000.000	ng/ml	-0.03
Standard Area 1 = 860499			Recovery = 72.64%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.750	112	45564	983.747	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 49.19%			
3) Phenol-d6	2.132	99	42039	738.682	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 36.93%			
7) Nitrobenzene-d5	2.597	82	32852	653.884	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 65.39%			
13) 2-Fluorobiphenyl	3.575	172	80709	628.146	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 62.81%			
21) 2,4,6-Tribromophenol	4.406	330	23559	1686.386	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 84.32%			
30) 4-Terphenyl-d14	5.729	244	101580	825.780	ng/ml	-0.01
Spiked Amount 2000.000	Range 30 - 130		Recovery = 41.29%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.184	93	60436	1258.028	ng/ml	99
6) Hexachloroethane	2.577	117	20726	1006.105	ng/ml	99
9) Naphthalene	2.990	128	187321	1175.484	ng/ml	99
10) Hexachlorobutadiene	3.060	225	28100	930.612	ng/ml	100
11) 2-Methylnaphthalene	3.370	142	125884	1137.844	ng/ml	100
14) 2-Chloronaphthalene	3.642	162	125899	1146.362	ng/ml	92
16) Acenaphthylene	3.876	152	207238	1308.792	ng/ml	100
18) Acenaphthene	3.976	153	140085	1322.459	ng/ml	92
20) Fluorene	4.268	166	172063	1501.180	ng/ml	99
24) Hexachlorobenzene	4.587	284	56712	1587.045	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\241219RVT\
Data File : 010762-2.D
Acq On : 19 Dec 2024 08:25 am
Operator : SV120:slr
Sample : WG2010762-2,32,,kmh
Misc : WG2011166,WG2010762,ical21668
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 19 08:36:25 2024
Quant Method : I:\8270sim\sv120\241219RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 19 07:31:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\241219RVT\ccv1219.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	4.699	266	34187	1691.729	ng/ml	100
26) Phenanthrene	4.815	178	270330	1676.846	ng/ml	100
27) Anthracene	4.846	178	273985	1642.650	ng/ml	100
28) Fluoranthene	5.504	202	325005	1750.334	ng/ml	99
29) Pyrene	5.636	202	336073	1755.245	ng/ml	100
32) Benzo[a]anthracene	6.385	228	320094	1717.119	ng/ml	98
34) Chrysene	6.409	228	301166	1866.997	ng/ml	100
37) Benzo[b]fluoranthene	7.280	252	326238	1720.072	ng/ml	100
38) Benzo[k]fluoranthene	7.307	252	291827	1711.540	ng/ml	100
39) Benzo[a]pyrene	7.612	252	273415	1759.973	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.976	276	290297	1827.458	ng/ml	98
41) Dibenzo[a,h]anthracene	9.014	278	271896	1821.951	ng/ml	99
42) Benzo[g,h,i]perylene	9.336	276	268170	1738.183	ng/ml	98

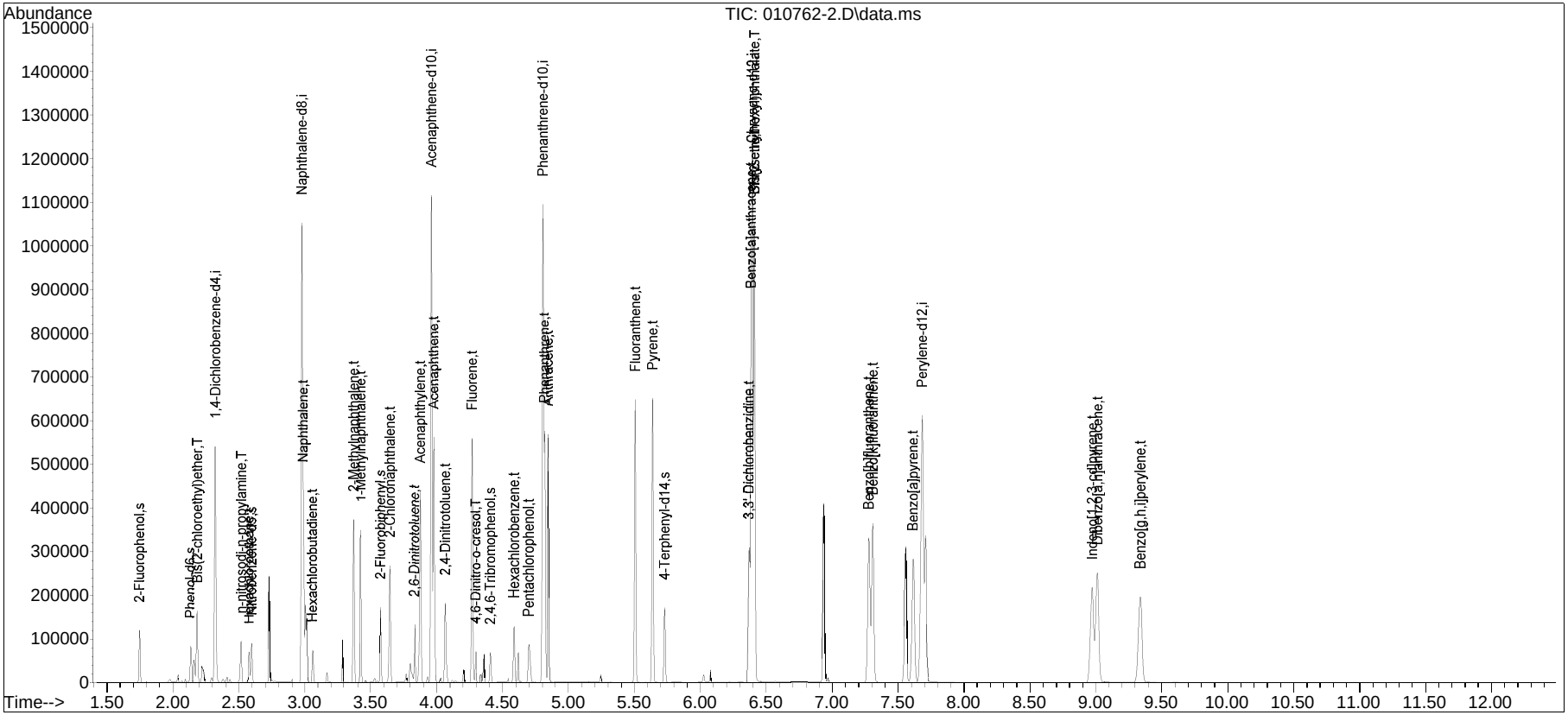
(#) = qualifier out of range (m) = manual integration (+) = signals summed

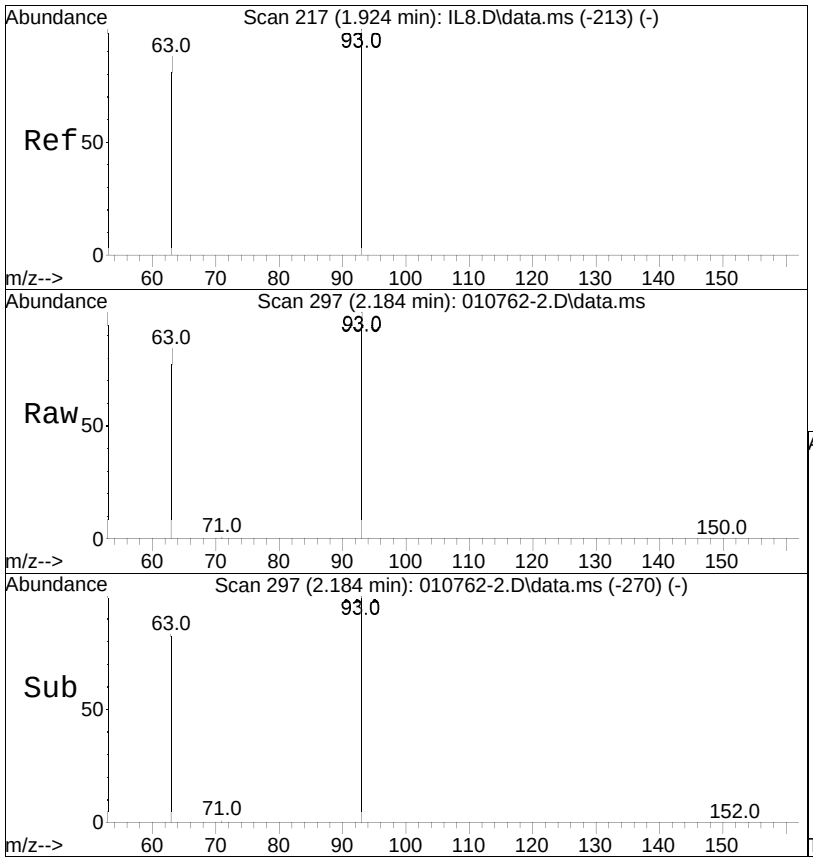
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\241219RVT\
Data File : 010762-2.D
Acq On : 19 Dec 2024 08:25 am
Operator : SV120:slr
Sample : WG2010762-2,32,,kmh
Misc : WG2011166,WG2010762,ical21668
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 19 08:36:25 2024
Quant Method : I:\8270sim\sv120\241219RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 19 07:31:52 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv1219.D•

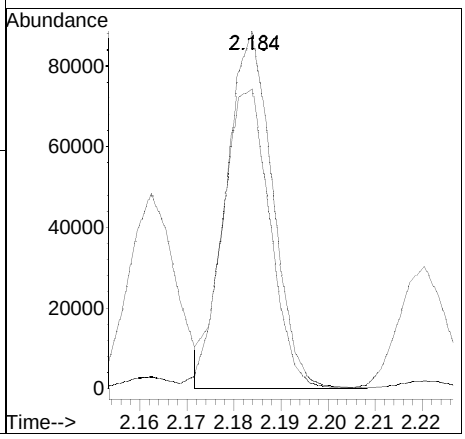


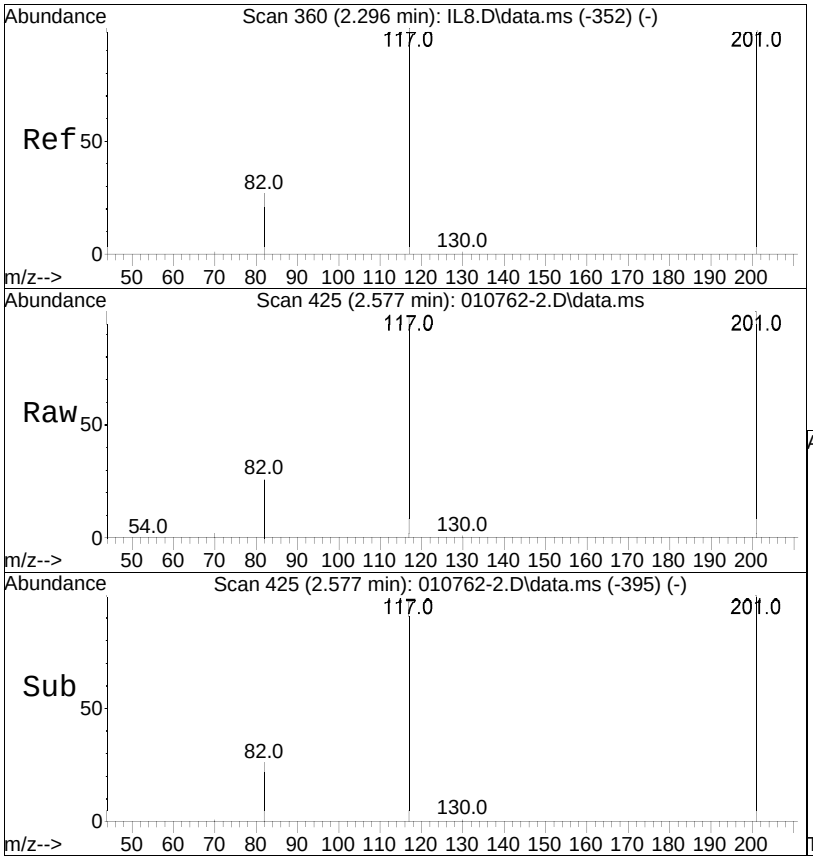


#4
Bis(2-chloroethyl)ether
Concen: 1258.03 ng/ml
RT: 2.184 min Scan# 297
Delta R.T. 0.003 min
Lab File: 010762-2.D
Acq: 19 Dec 2024 08:25 am

Tgt Ion: 93 Resp: 60436

Ion	Ratio	Lower	Upper
93	100		
63	85.4	68.7	103.1

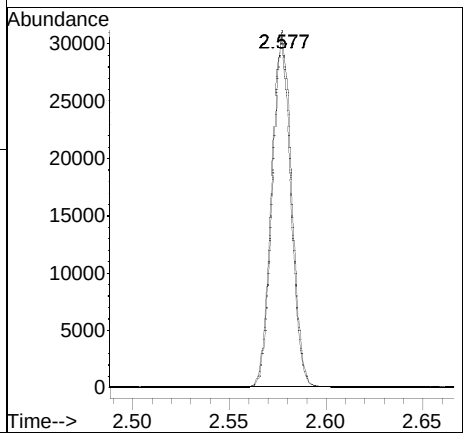


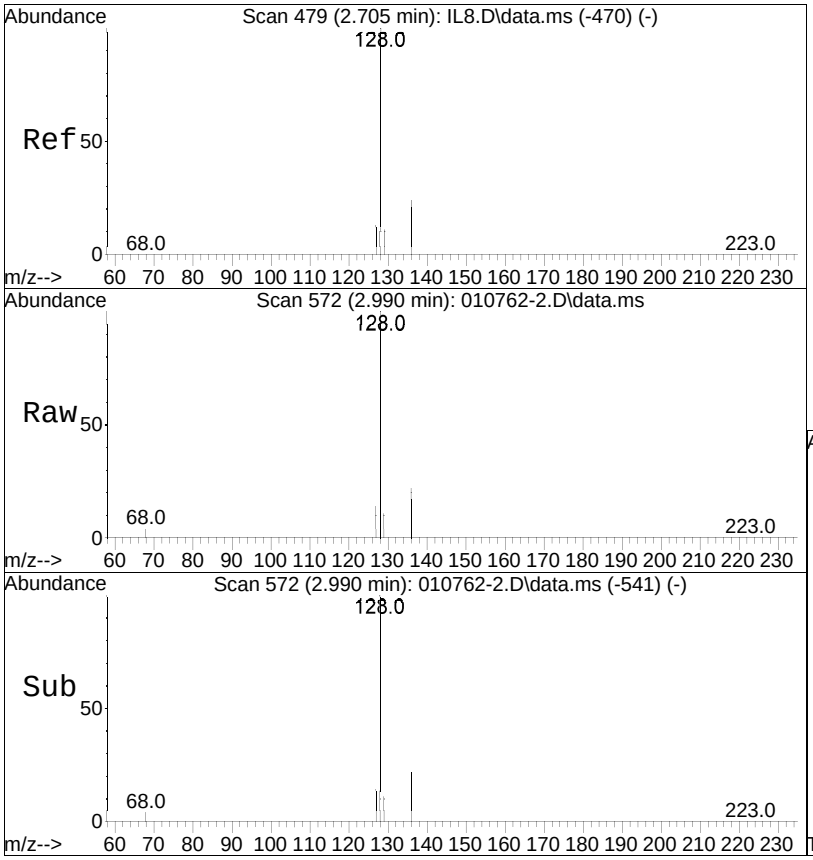


#6
Hexachloroethane
Concen: 1006.11 ng/ml
RT: 2.577 min Scan# 425
Delta R.T. 0.002 min
Lab File: 010762-2.D
Acq: 19 Dec 2024 08:25 am

Tgt Ion:117 Resp: 20726

Ion	Ratio	Lower	Upper
117	100		
201	101.4	82.0	123.0

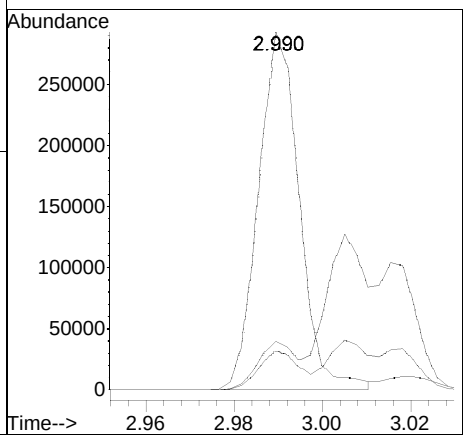


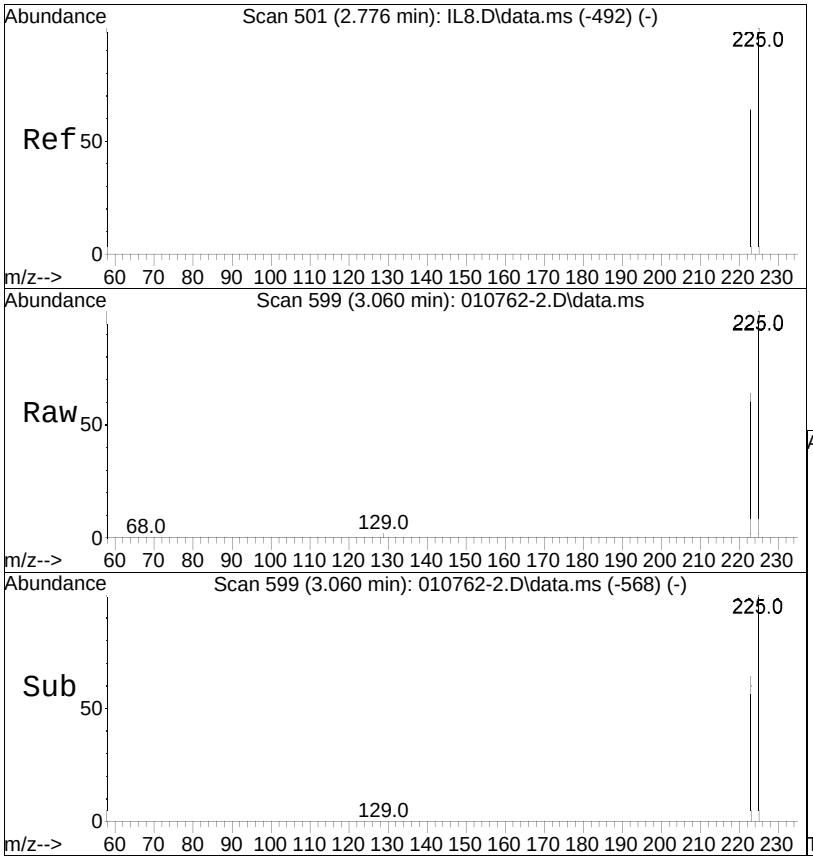


#9
Naphthalene
Concen: 1175.48 ng/ml
RT: 2.990 min Scan# 572
Delta R.T. -0.000 min
Lab File: 010762-2.D
Acq: 19 Dec 2024 08:25 am

Tgt Ion:128 Resp: 187321

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.9	13.3
127	12.6	10.7	16.1

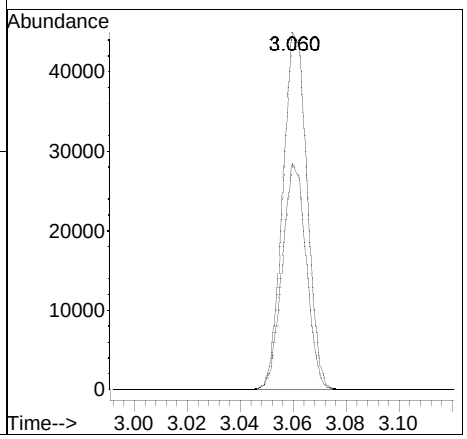


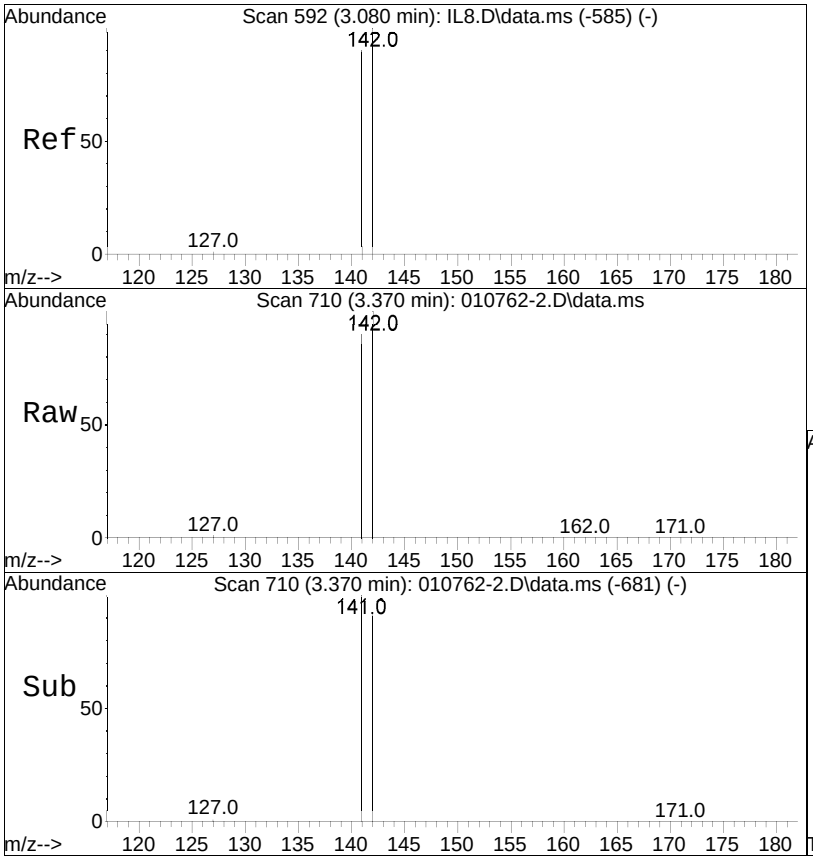


#10
Hexachlorobutadiene
Concen: 930.61 ng/ml
RT: 3.060 min Scan# 599
Delta R.T. -0.000 min
Lab File: 010762-2.D
Acq: 19 Dec 2024 08:25 am

Tgt Ion:225 Resp: 28100

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.5	75.7

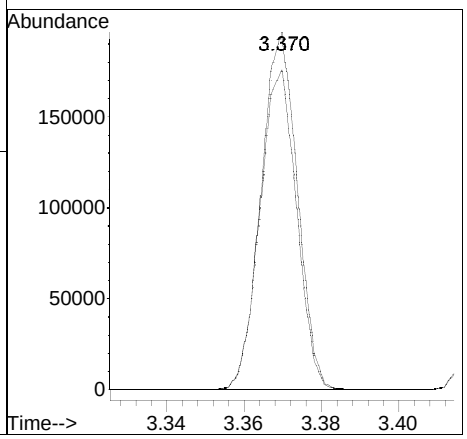


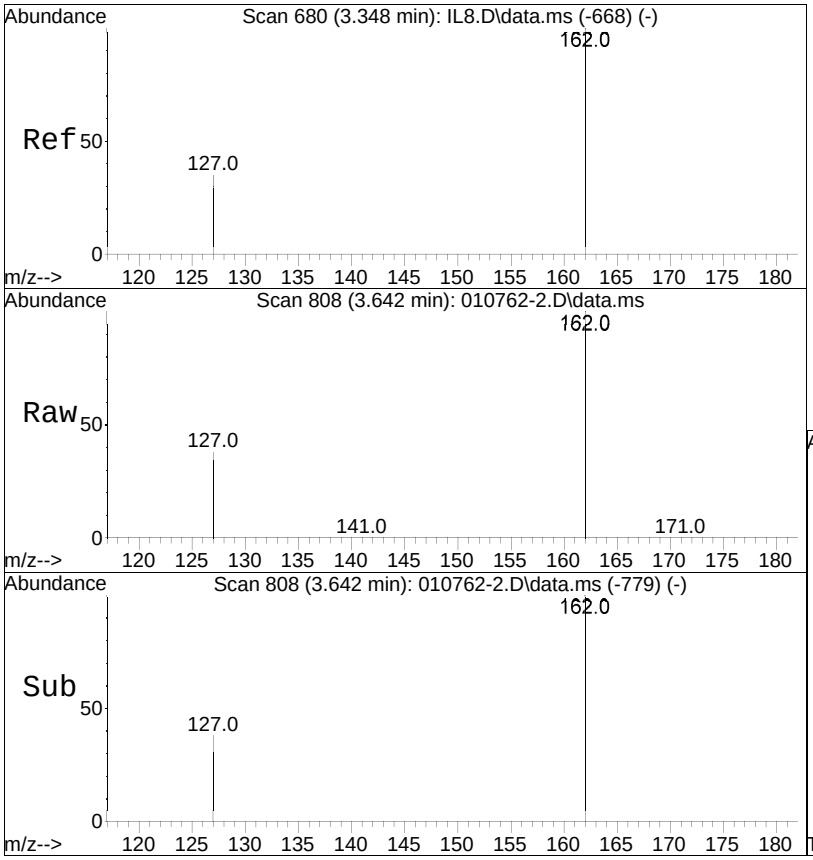


#11
2-Methylnaphthalene
Concen: 1137.84 ng/ml
RT: 3.370 min Scan# 710
Delta R.T. -0.000 min
Lab File: 010762-2.D
Acq: 19 Dec 2024 08:25 am

Tgt Ion:142 Resp: 125884

Ion	Ratio	Lower	Upper
142	100		
141	90.6	72.2	108.2

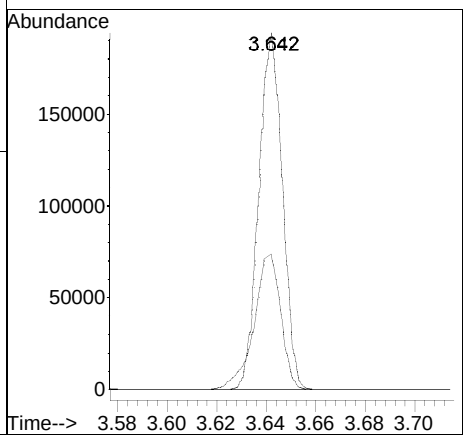


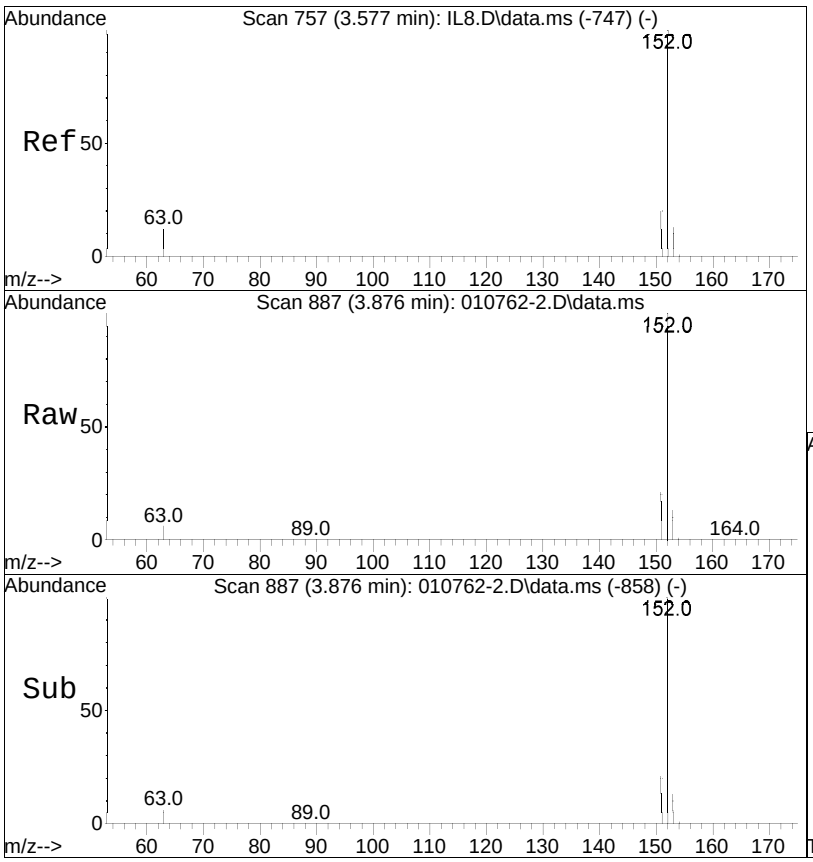


#14
2-Chloronaphthalene
Concen: 1146.36 ng/ml
RT: 3.642 min Scan# 808
Delta R.T. -0.000 min
Lab File: 010762-2.D
Acq: 19 Dec 2024 08:25 am

Tgt Ion:162 Resp: 125899

Ion	Ratio	Lower	Upper
162	100		
127	43.5	31.0	46.4

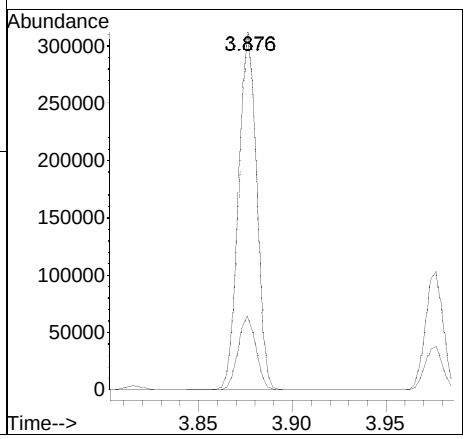


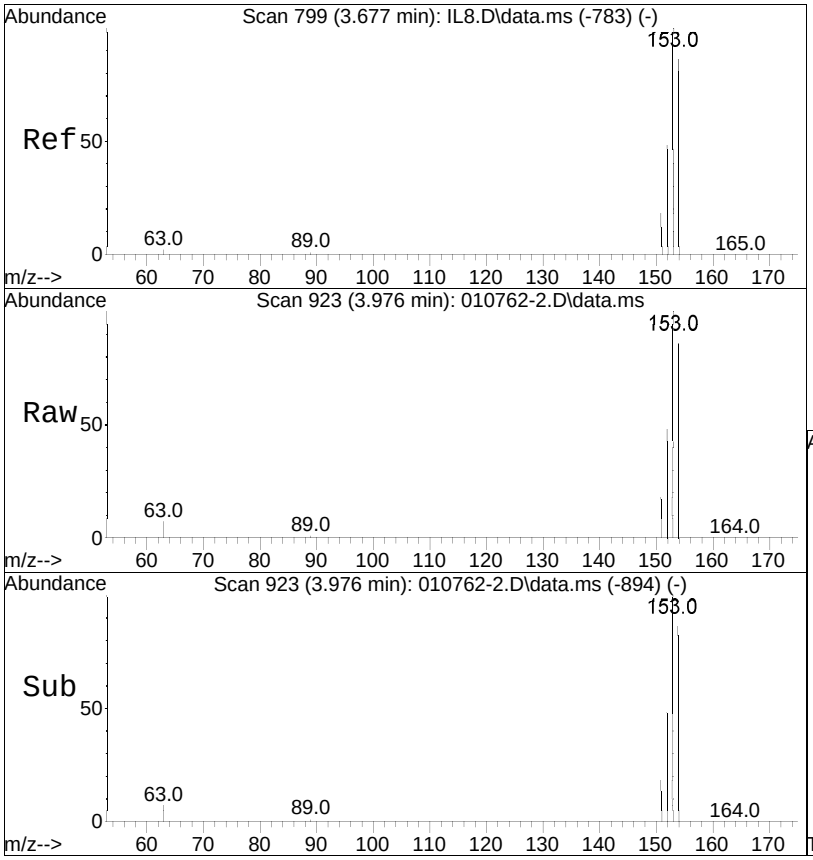


#16
Acenaphthylene
Concen: 1308.79 ng/ml
RT: 3.876 min Scan# 887
Delta R.T. -0.000 min
Lab File: 010762-2.D
Acq: 19 Dec 2024 08:25 am

Tgt Ion:152 Resp: 207238

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.4	24.6

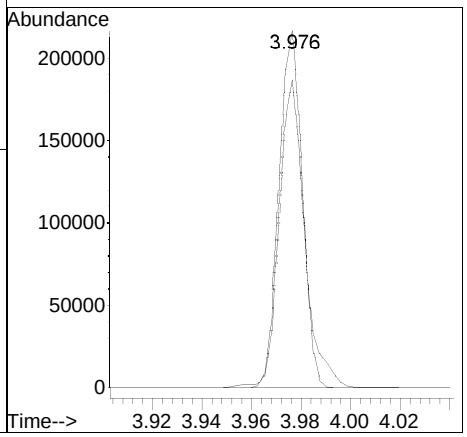


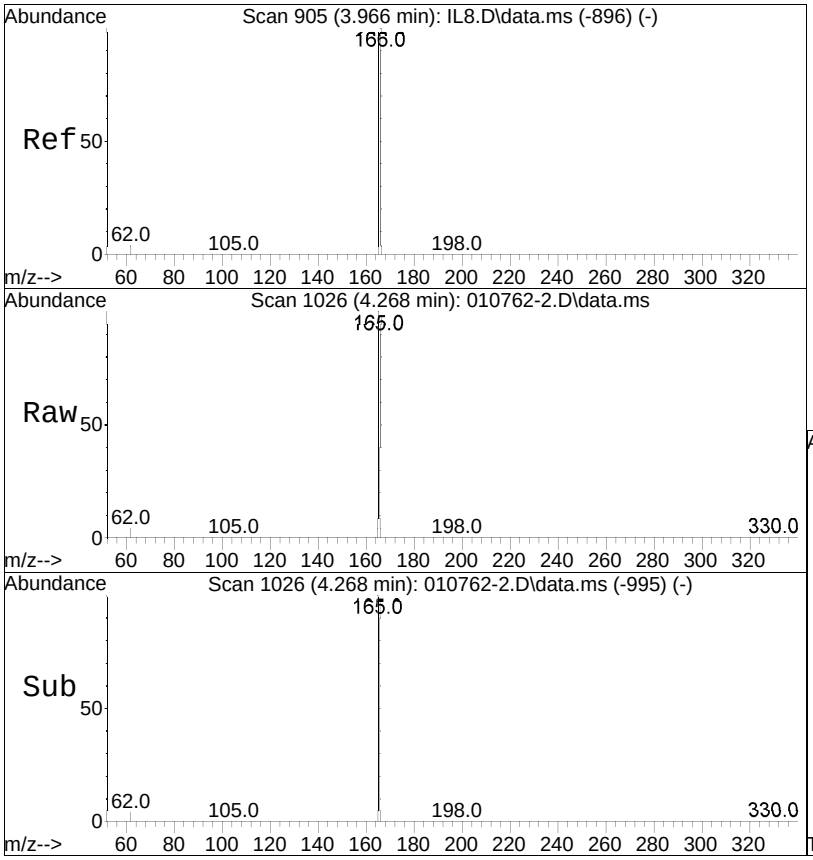


#18
Acenaphthene
Concen: 1322.46 ng/ml
RT: 3.976 min Scan# 923
Delta R.T. -0.000 min
Lab File: 010762-2.D
Acq: 19 Dec 2024 08:25 am

Tgt Ion:153 Resp: 140085

Ion	Ratio	Lower	Upper
153	100		
154	94.2	69.8	104.6

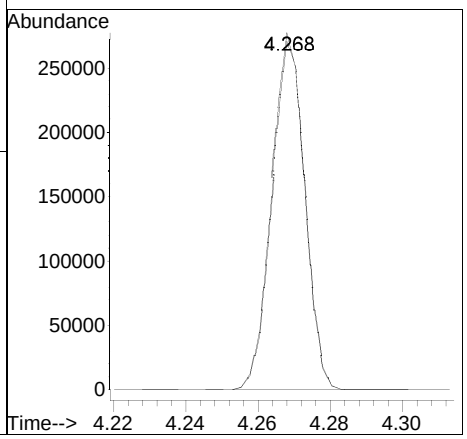


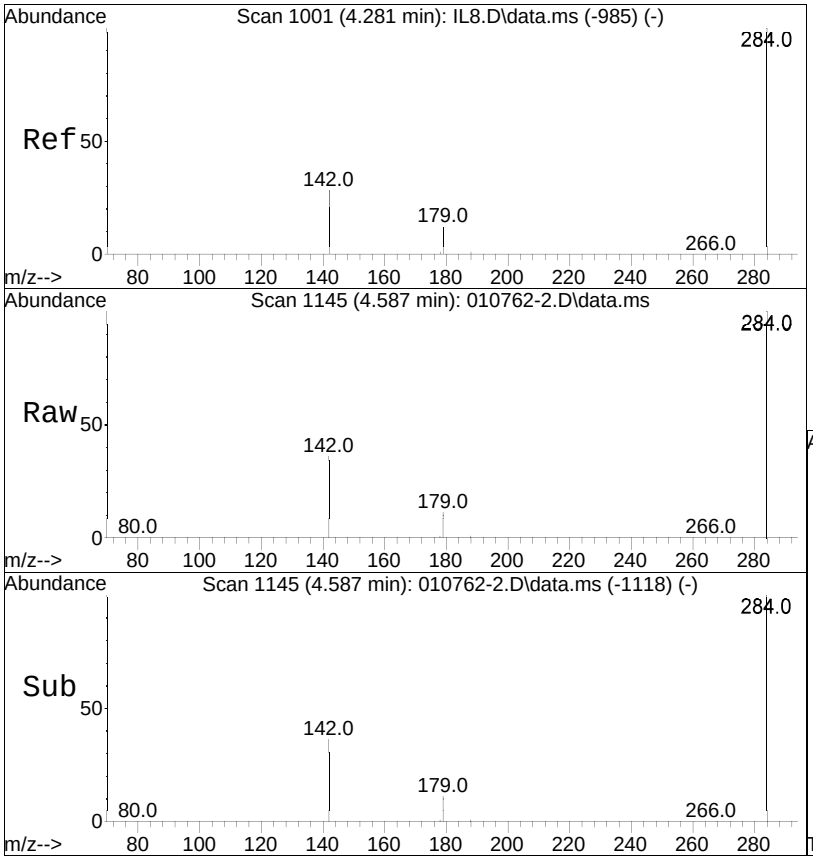


#20
Fluorene
Concen: 1501.18 ng/ml
RT: 4.268 min Scan# 1026
Delta R.T. -0.002 min
Lab File: 010762-2.D
Acq: 19 Dec 2024 08:25 am

Tgt Ion:166 Resp: 172063

Ion	Ratio	Lower	Upper
166	100		
165	101.5	80.1	120.1

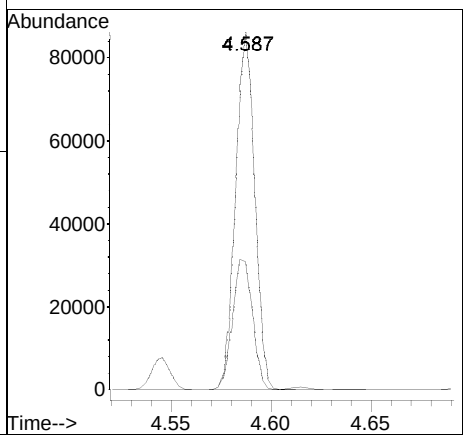


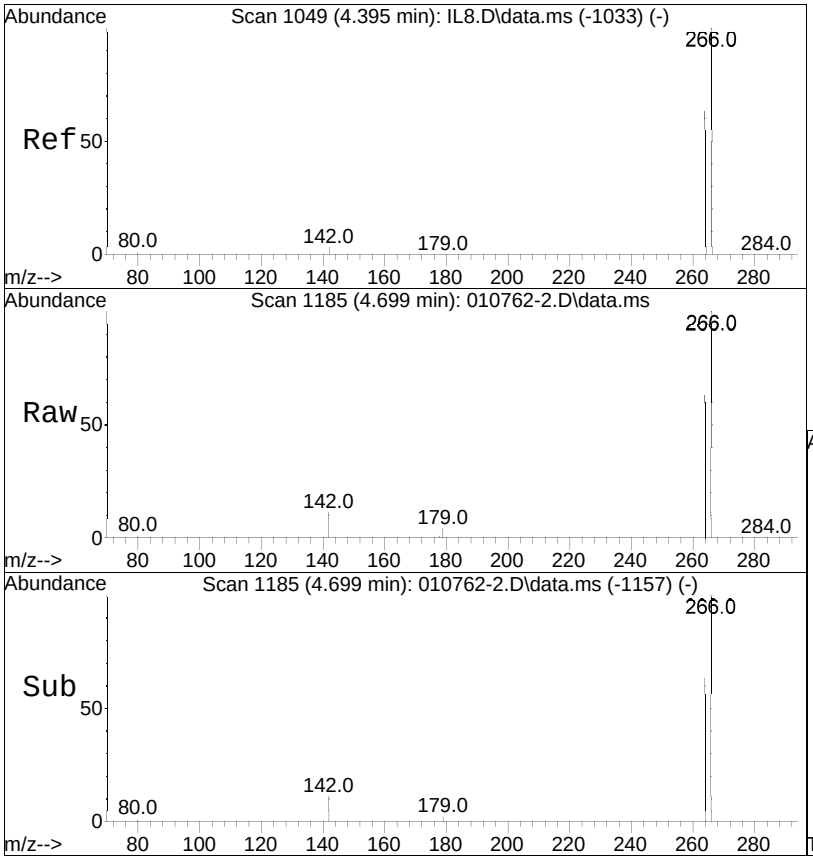


#24
Hexachlorobenzene
Concen: 1587.05 ng/ml
RT: 4.587 min Scan# 1145
Delta R.T. -0.002 min
Lab File: 010762-2.D
Acq: 19 Dec 2024 08:25 am

Tgt Ion:284 Resp: 56712

Ion	Ratio	Lower	Upper
284	100		
142	38.1	30.2	45.2

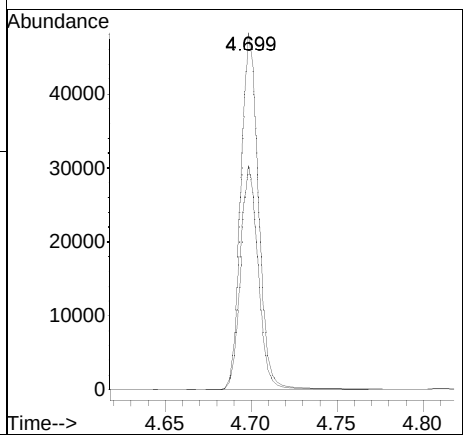


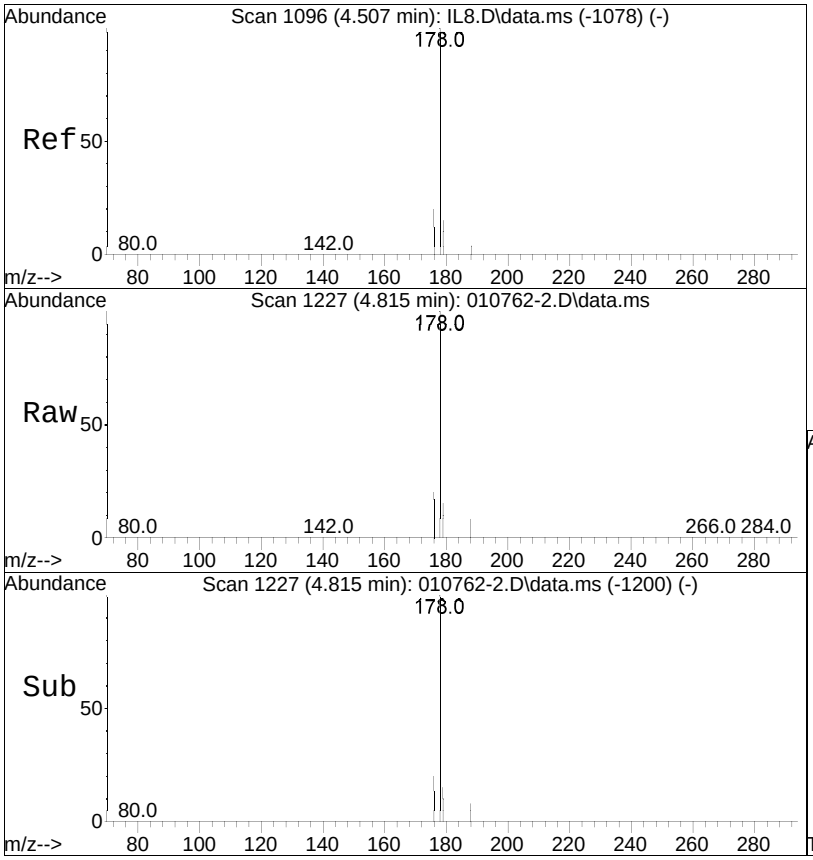


#25
Pentachlorophenol
Concen: 1691.73 ng/ml
RT: 4.699 min Scan# 1185
Delta R.T. -0.002 min
Lab File: 010762-2.D
Acq: 19 Dec 2024 08:25 am

Tgt Ion:266 Resp: 34187

Ion	Ratio	Lower	Upper
266	100		
264	62.9	50.3	75.5

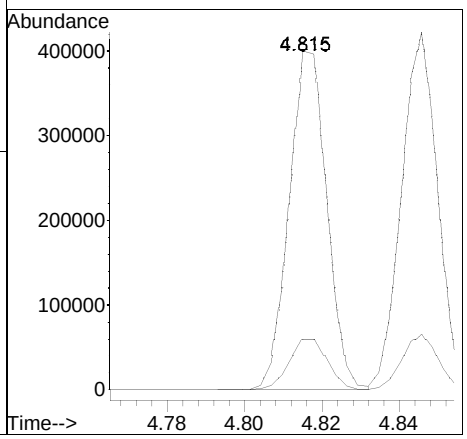


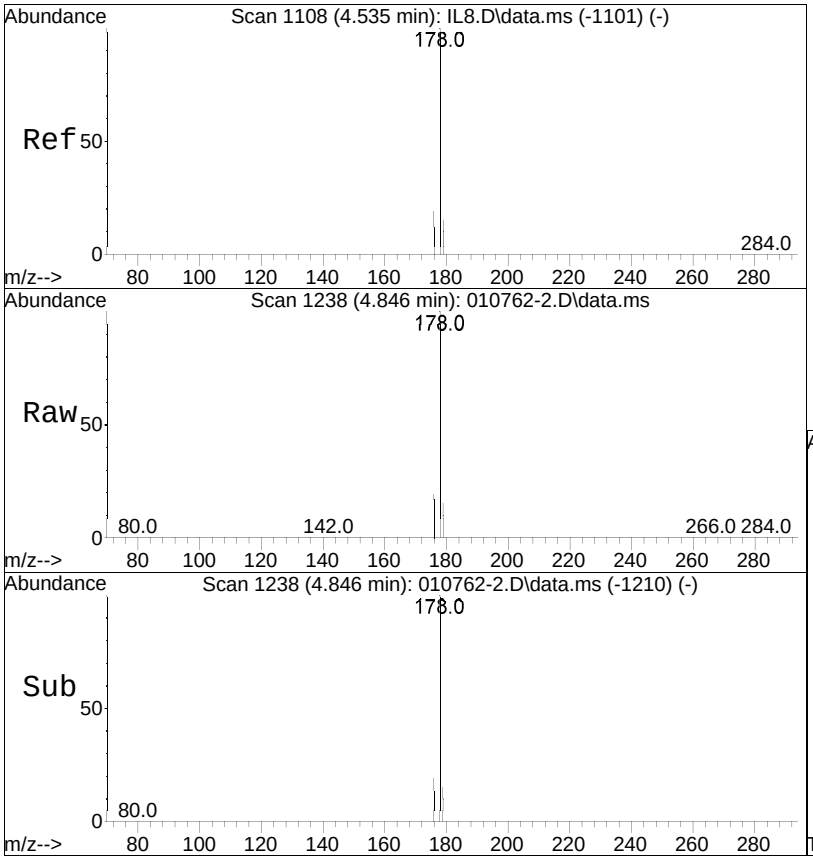


#26
Phenanthrene
Concen: 1676.85 ng/ml
RT: 4.815 min Scan# 1227
Delta R.T. -0.005 min
Lab File: 010762-2.D
Acq: 19 Dec 2024 08:25 am

Tgt Ion:178 Resp: 270330

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.5	18.7

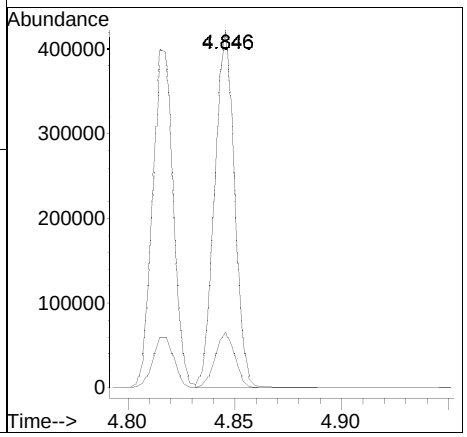


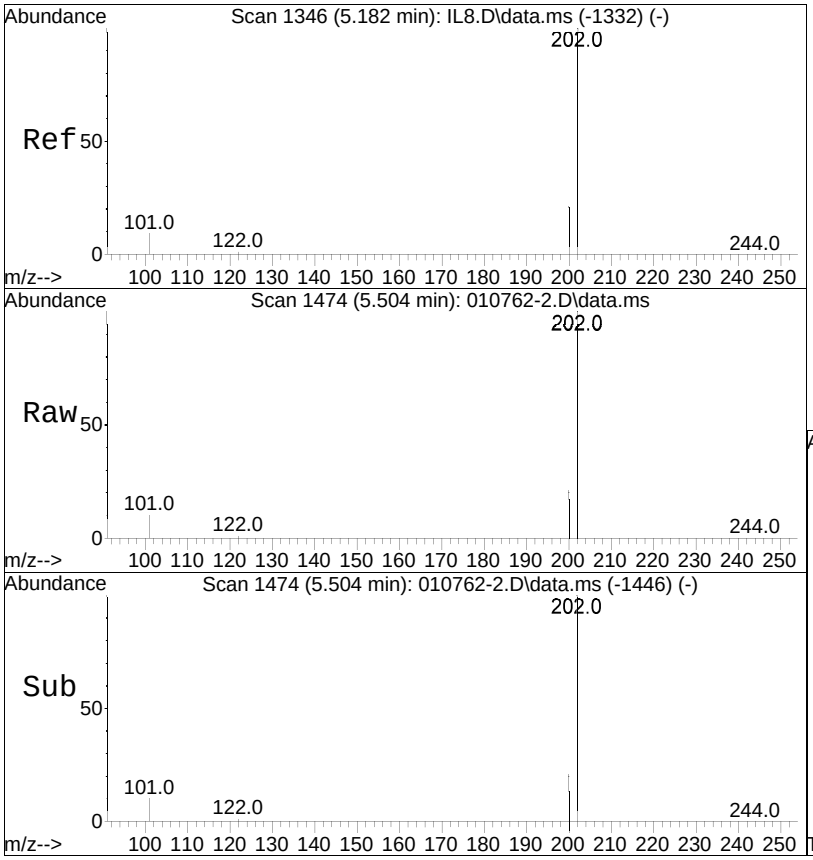


#27
Anthracene
Concen: 1642.65 ng/ml
RT: 4.846 min Scan# 1238
Delta R.T. -0.002 min
Lab File: 010762-2.D
Acq: 19 Dec 2024 08:25 am

Tgt Ion:178 Resp: 273985

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.3	18.5

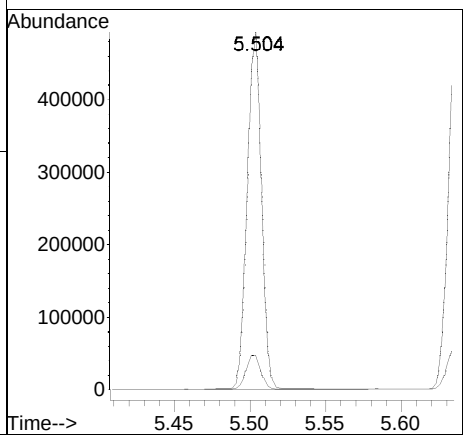


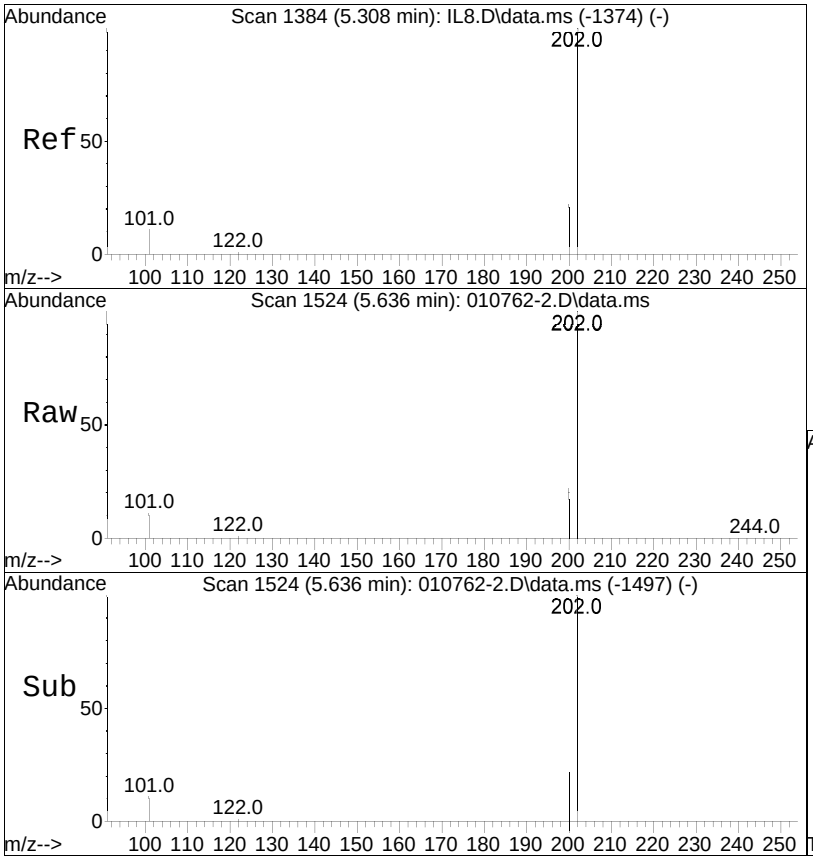


#28
Fluoranthene
Concen: 1750.33 ng/ml
RT: 5.504 min Scan# 1474
Delta R.T. -0.007 min
Lab File: 010762-2.D
Acq: 19 Dec 2024 08:25 am

Tgt Ion:202 Resp: 325005

Ion	Ratio	Lower	Upper
202	100		
101	10.0	7.8	11.6

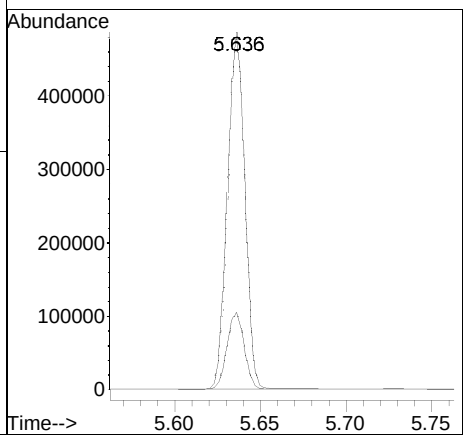


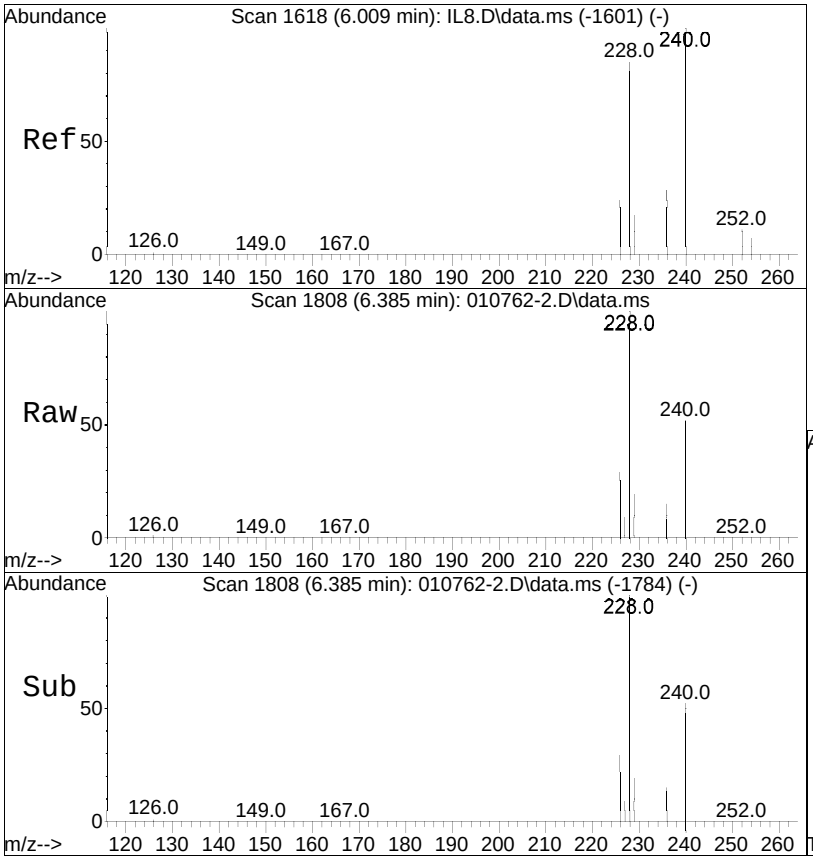


#29
Pyrene
Concen: 1755.24 ng/ml
RT: 5.636 min Scan# 1524
Delta R.T. -0.010 min
Lab File: 010762-2.D
Acq: 19 Dec 2024 08:25 am

Tgt Ion:202 Resp: 336073

Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.5	26.3

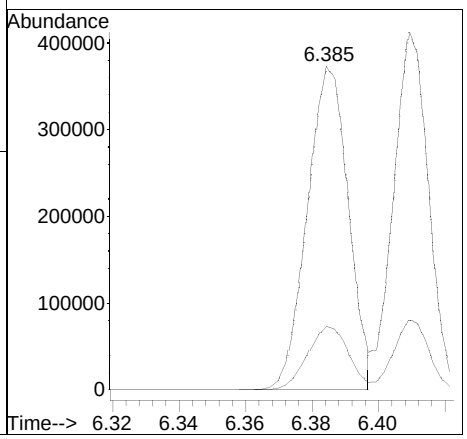


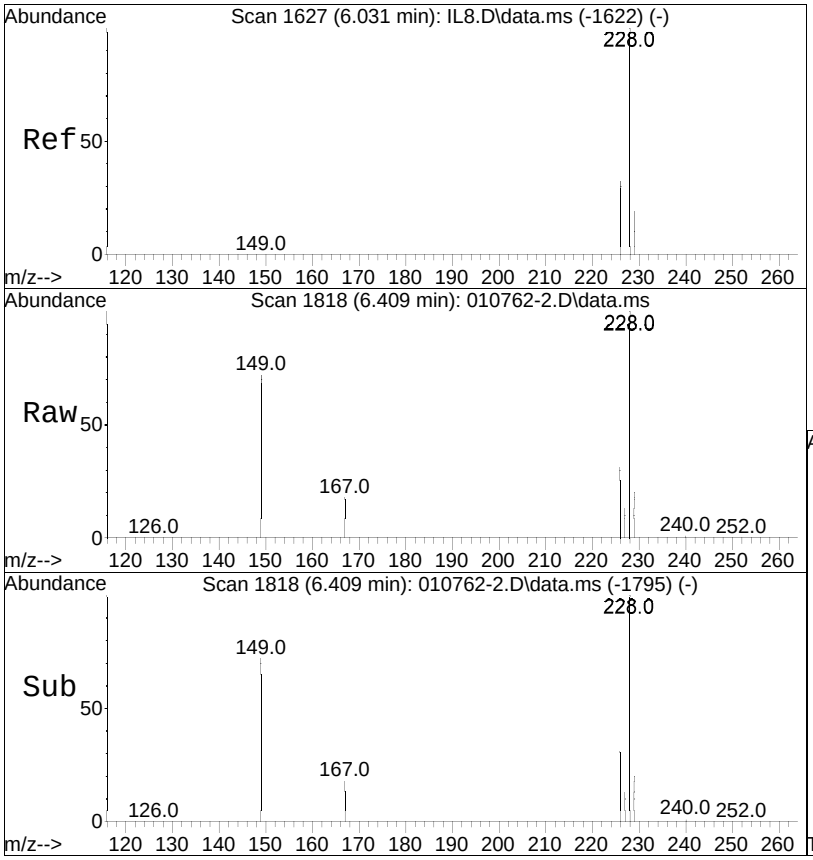


#32
Benzo[a]anthracene
Concen: 1717.12 ng/ml
RT: 6.385 min Scan# 1808
Delta R.T. -0.021 min
Lab File: 010762-2.D
Acq: 19 Dec 2024 08:25 am

Tgt Ion:228 Resp: 320094

Ion	Ratio	Lower	Upper
228	100		
229	19.5	16.2	24.4

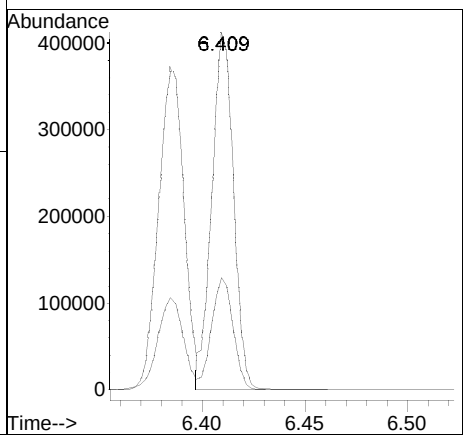


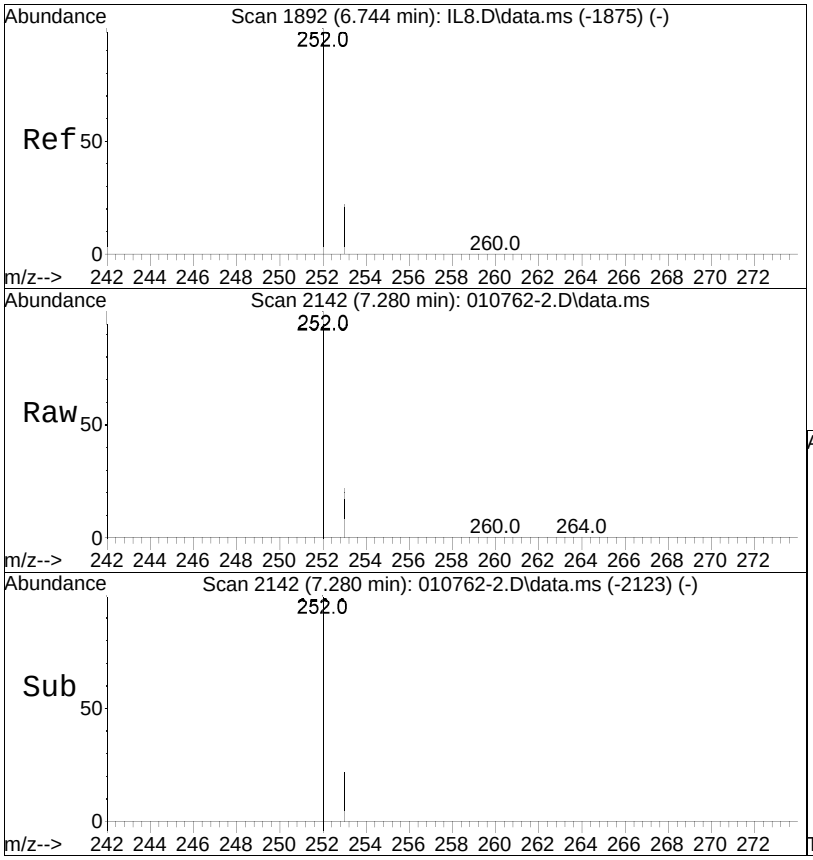


#34
Chrysene
Concen: 1867.00 ng/ml
RT: 6.409 min Scan# 1818
Delta R.T. -0.024 min
Lab File: 010762-2.D
Acq: 19 Dec 2024 08:25 am

Tgt Ion:228 Resp: 301166

Ion	Ratio	Lower	Upper
228	100		
226	31.3	24.9	37.3

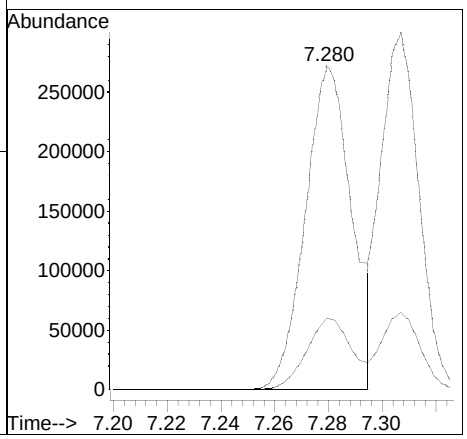


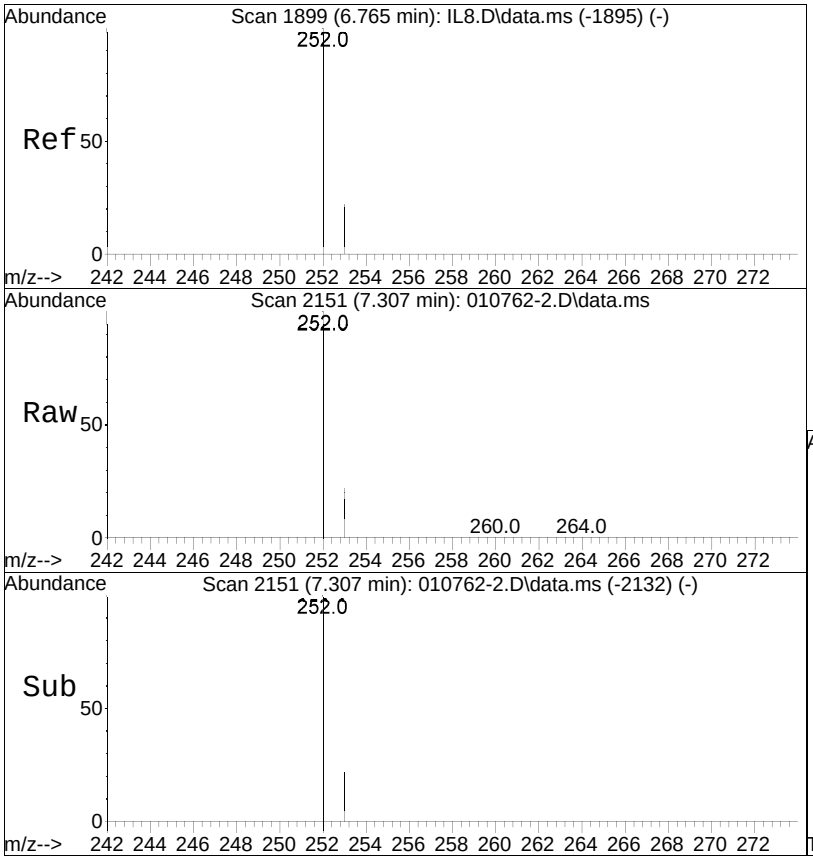


#37
Benzo[b]fluoranthene
Concen: 1720.07 ng/ml
RT: 7.280 min Scan# 2142
Delta R.T. -0.023 min
Lab File: 010762-2.D
Acq: 19 Dec 2024 08:25 am

Tgt Ion:252 Resp: 326238

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0

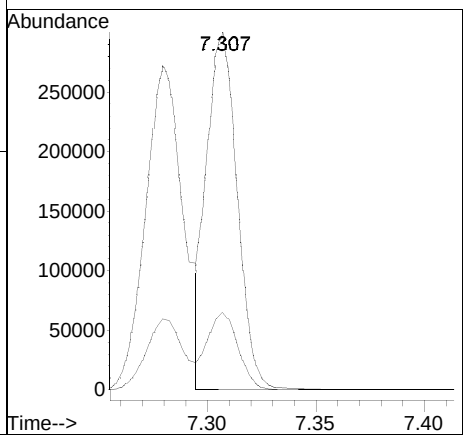


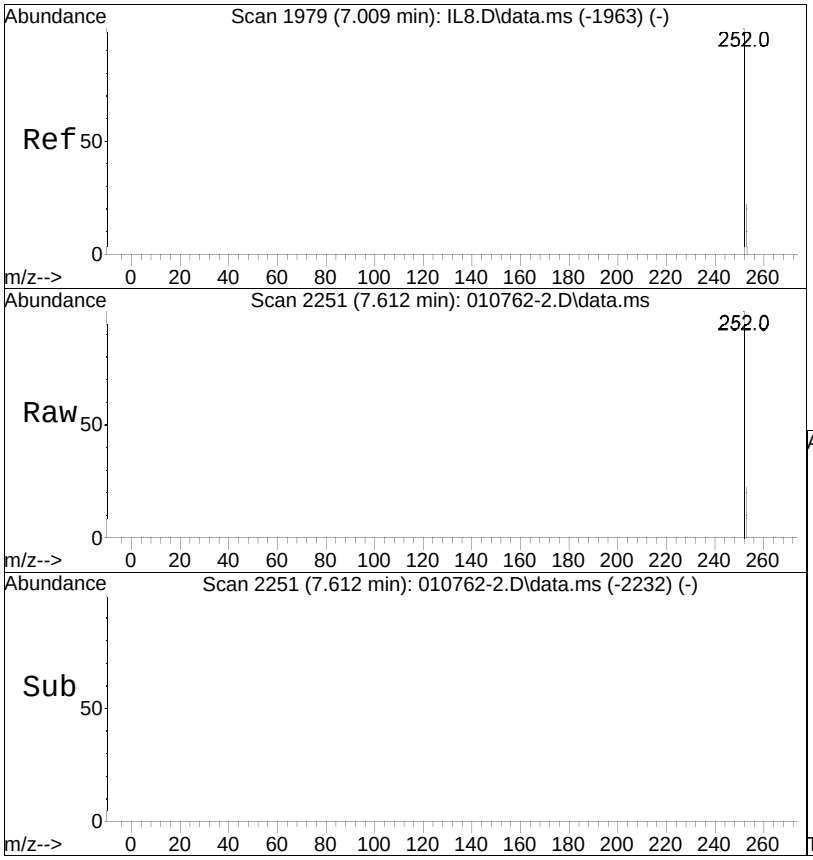


#38
Benzo[k]fluoranthene
Concen: 1711.54 ng/ml
RT: 7.307 min Scan# 2151
Delta R.T. -0.023 min
Lab File: 010762-2.D
Acq: 19 Dec 2024 08:25 am

Tgt Ion:252 Resp: 291827

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.6	26.4

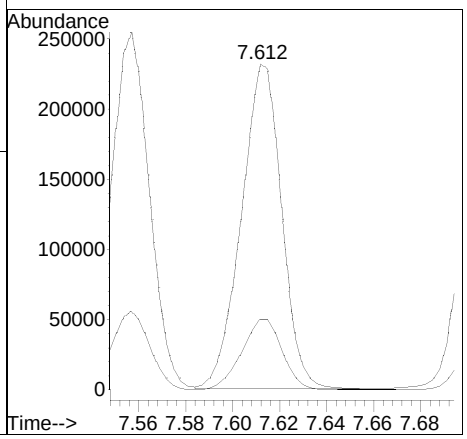


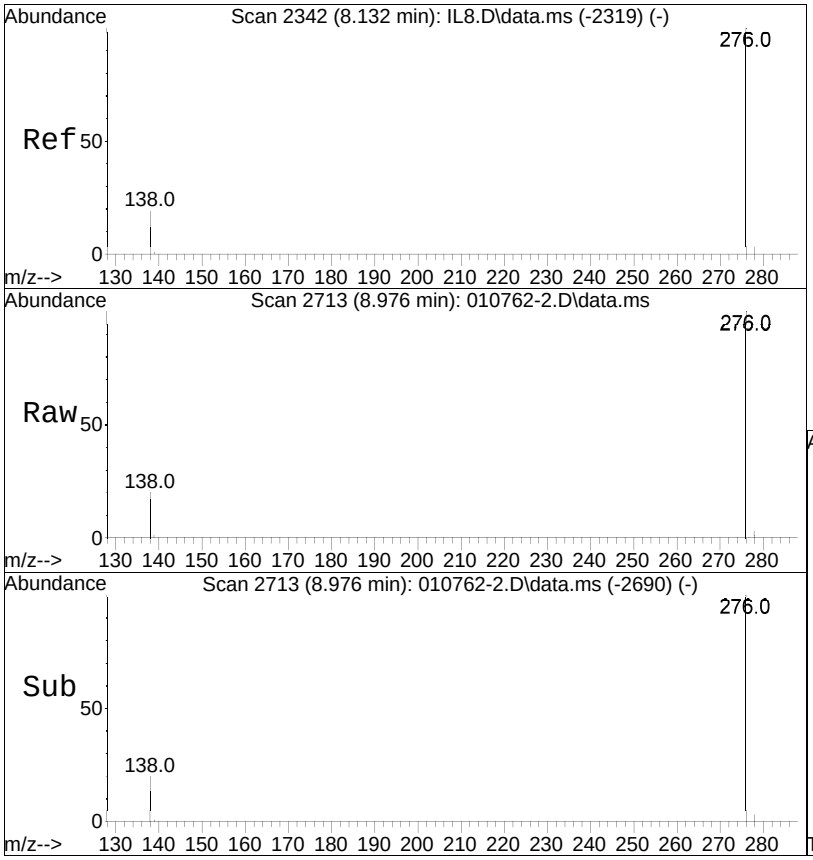


#39
Benzo[a]pyrene
Concen: 1759.97 ng/ml
RT: 7.612 min Scan# 2251
Delta R.T. -0.023 min
Lab File: 010762-2.D
Acq: 19 Dec 2024 08:25 am

Tgt Ion:252 Resp: 273415

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.2

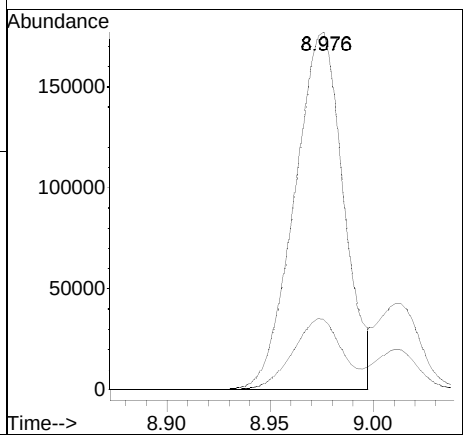


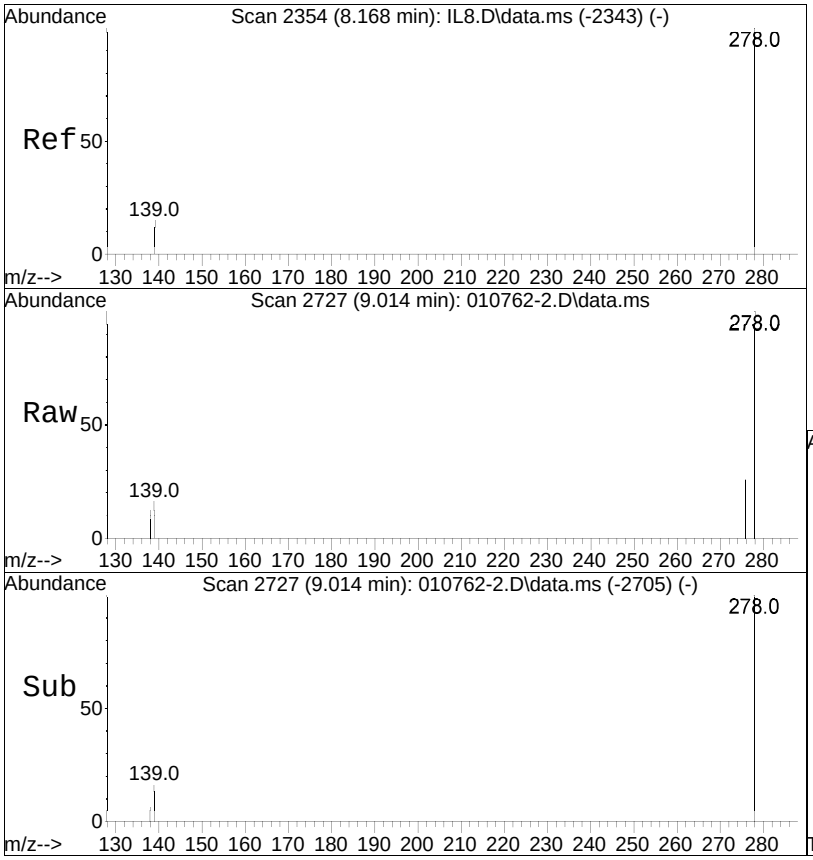


#40
Indeno[1,2,3-cd]pyrene
Concen: 1827.46 ng/ml
RT: 8.976 min Scan# 2713
Delta R.T. -0.018 min
Lab File: 010762-2.D
Acq: 19 Dec 2024 08:25 am

Tgt Ion:276 Resp: 290297

Ion	Ratio	Lower	Upper
276	100		
138	20.3	15.4	23.0

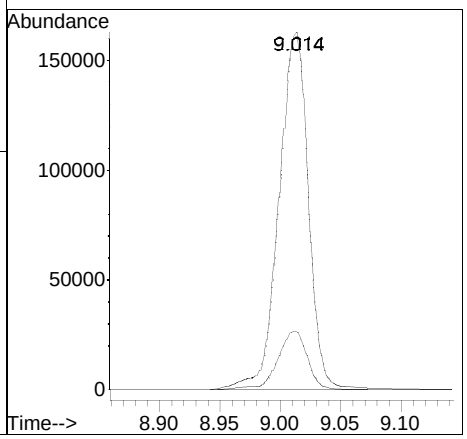


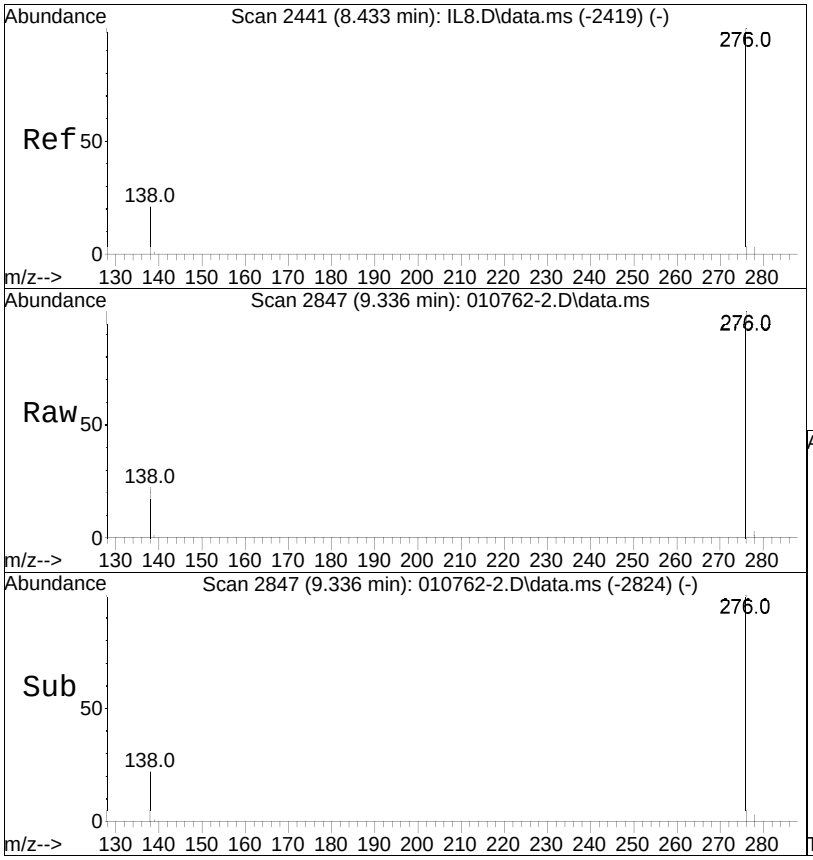


#41
Dibenzo[a,h]anthracene
Concen: 1821.95 ng/ml
RT: 9.014 min Scan# 2727
Delta R.T. -0.021 min
Lab File: 010762-2.D
Acq: 19 Dec 2024 08:25 am

Tgt Ion:278 Resp: 271896

Ion	Ratio	Lower	Upper
278	100		
139	16.7	13.0	19.6

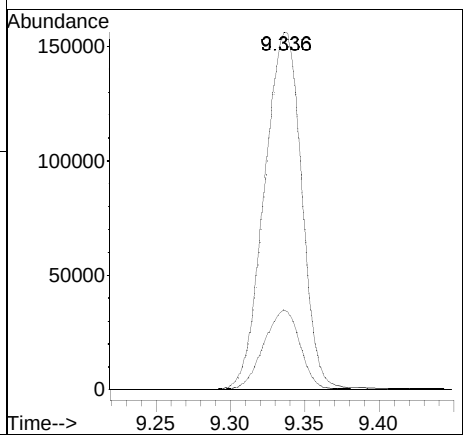




#42
Benzo[g,h,i]perylene
Concen: 1738.18 ng/ml
RT: 9.336 min Scan# 2847
Delta R.T. -0.018 min
Lab File: 010762-2.D
Acq: 19 Dec 2024 08:25 am

Tgt Ion:276 Resp: 268170

Ion	Ratio	Lower	Upper
276	100		
138	22.0	16.6	25.0



Manual Integration Report

Data Path	: I:\8270SIM\sv120\241219RVTQ	Method	: SIM-RVT_241105_sv120.M
Data File	: 010762-2.D	Operator	: SV120:slr
Date Inj'd	: 12/19/2024 8:25 am	Instrument	: SV120
Sample	: WG2010762-2,32,,kmh	Quant Date	: 12/19/2024 8:38 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\241219RVT\
Data File : 010762-3.D
Acq On : 19 Dec 2024 08:41 am
Operator : SV120:slr
Sample : WG2010762-3,32,,kmh
Misc : WG2011166,WG2010762,ical21668
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 19 13:32:45 2024
Quant Method : I:\8270sim\sv120\241219RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 19 07:31:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\241219RVT\ccv1219.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.321	152	162159	4000.000	ng/ml	0.00
Standard Area 1 = 183438			Recovery = 88.40%			
8) Naphthalene-d8	2.981	136	656765	4000.000	ng/ml	# 0.00
Standard Area 1 = 731006			Recovery = 89.84%			
17) Acenaphthene-d10	3.960	164	364354	4000.000	ng/ml	0.00
Standard Area 1 = 431670			Recovery = 84.41%			
22) Phenanthrene-d10	4.804	188	714846	4000.000	ng/ml	0.00
Standard Area 1 = 877889			Recovery = 81.43%			
31) Chrysene-d12	6.389	240	628327	4000.000	ng/ml	-0.03
Standard Area 1 = 872898			Recovery = 71.98%			
36) Perylene-d12	7.677	264	627276	4000.000	ng/ml	-0.03
Standard Area 1 = 860499			Recovery = 72.90%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.749	112	45017	943.137	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 47.16%			
3) Phenol-d6	2.132	99	41538	708.251	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 35.41%			
7) Nitrobenzene-d5	2.597	82	32105	620.081	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 62.01%			
13) 2-Fluorobiphenyl	3.575	172	77522	585.625	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 58.56%			
21) 2,4,6-Tribromophenol	4.406	330	21537	1484.874	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 74.24%			
30) 4-Terphenyl-d14	5.725	244	91490	703.864	ng/ml	-0.02
Spiked Amount 2000.000	Range 30 - 130		Recovery = 35.19%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.184	93	59138	1192.342	ng/ml	99
6) Hexachloroethane	2.577	117	20803	979.920	ng/ml	100
9) Naphthalene	2.991	128	185444	1129.535	ng/ml	99
10) Hexachlorobutadiene	3.062	225	28145	904.732	ng/ml	100
11) 2-Methylnaphthalene	3.370	142	126162	1106.872	ng/ml	99
14) 2-Chloronaphthalene	3.642	162	125280	1107.229	ng/ml	92
16) Acenaphthylene	3.876	152	199977	1225.852	ng/ml	100
18) Acenaphthene	3.976	153	135626	1233.212	ng/ml	92
20) Fluorene	4.268	166	159454	1339.939	ng/ml	99
24) Hexachlorobenzene	4.587	284	52076	1379.149	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\241219RVT\
Data File : 010762-3.D
Acq On : 19 Dec 2024 08:41 am
Operator : SV120:slr
Sample : WG2010762-3,32,,kmh
Misc : WG2011166,WG2010762,ical21668
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 19 13:32:45 2024
Quant Method : I:\8270sim\sv120\241219RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 19 07:31:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\241219RVT\ccv1219.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	4.698	266	32890	1549.446	ng/ml	99
26) Phenanthrene	4.818	178	244377	1434.559	ng/ml	100
27) Anthracene	4.846	178	247766	1405.785	ng/ml	100
28) Fluoranthene	5.501	202	291054	1483.418	ng/ml	99
29) Pyrene	5.636	202	303339	1499.310	ng/ml	100
32) Benzo[a]anthracene	6.382	228	284541	1478.893	ng/ml	98
34) Chrysene	6.407	228	264379	1589.373	ng/ml	100
37) Benzo[b]fluoranthene	7.275	252	266994	1402.752	ng/ml	97
38) Benzo[k]fluoranthene	7.302	252	268092	1566.796	ng/ml	97
39) Benzo[a]pyrene	7.607	252	236503	1517.007	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.969	276	247756	1554.162	ng/ml	98
41) Dibenzo[a,h]anthracene	9.007	278	233595	1559.784	ng/ml	99
42) Benzo[g,h,i]perylene	9.332	276	229125	1479.875	ng/ml	97

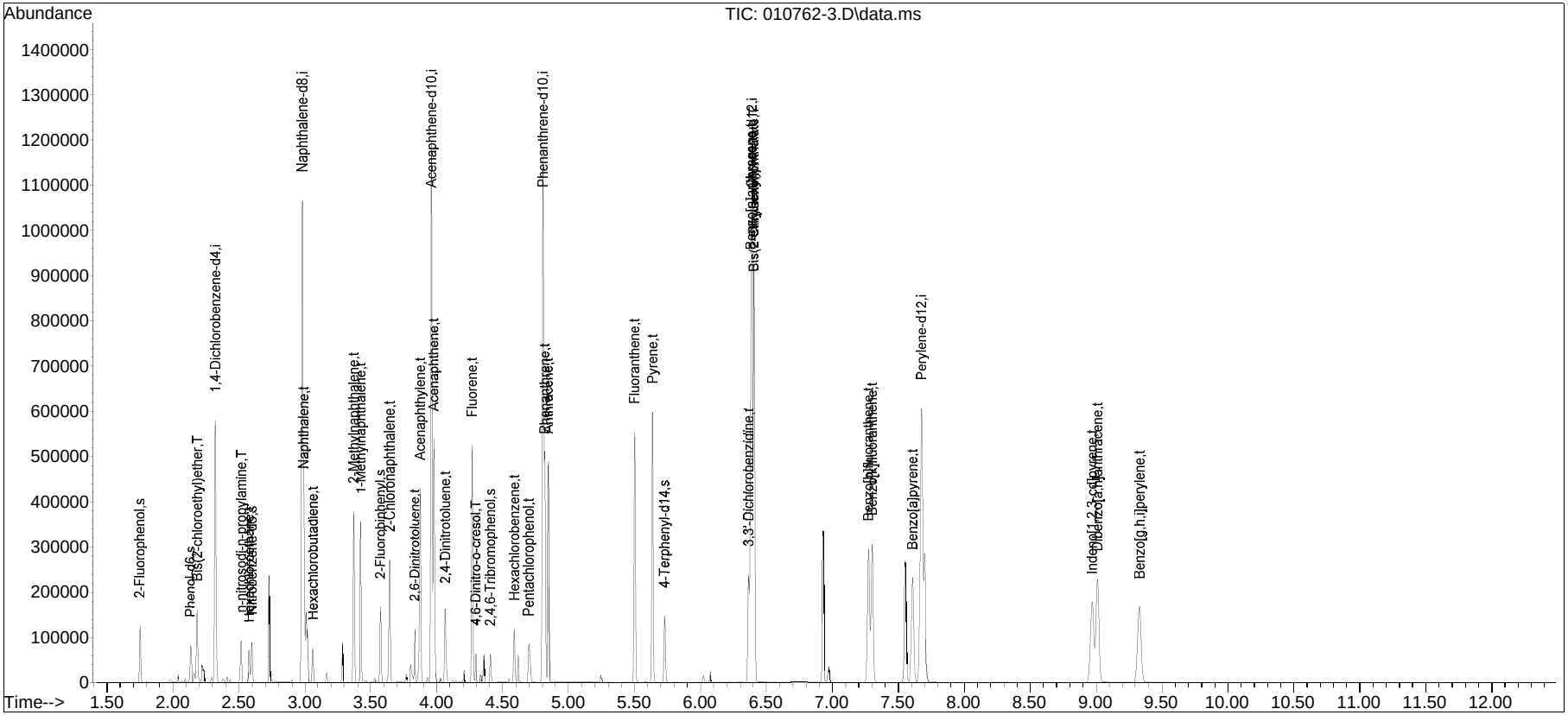
(#) = qualifier out of range (m) = manual integration (+) = signals summed

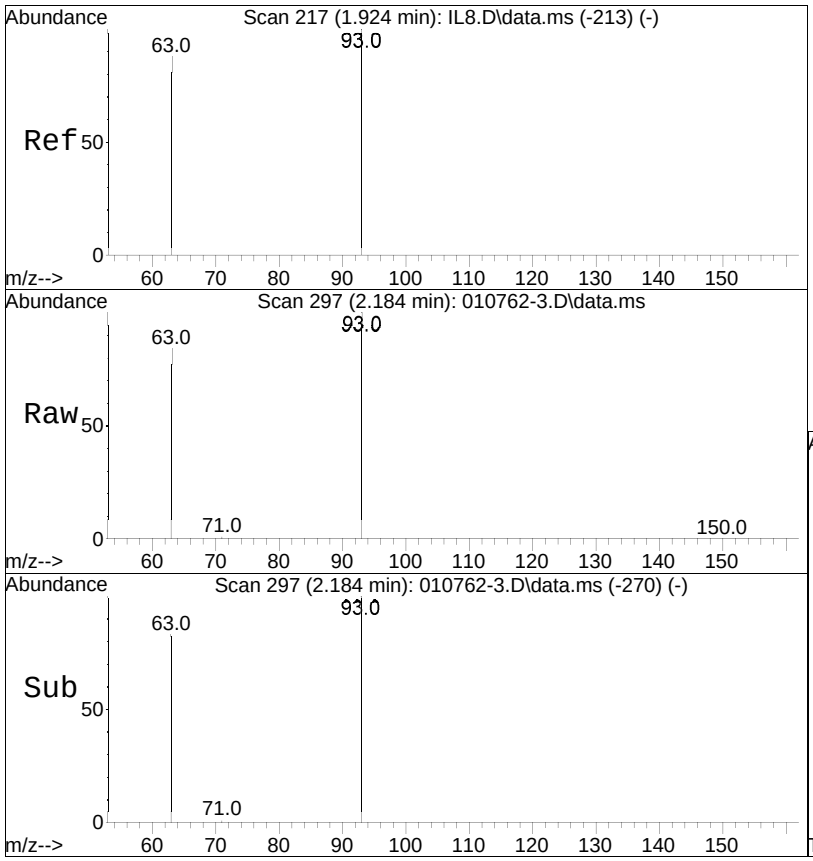
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\241219RVT\
Data File : 010762-3.D
Acq On : 19 Dec 2024 08:41 am
Operator : SV120:slr
Sample : WG2010762-3,32,,kmh
Misc : WG2011166,WG2010762,ical21668
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 19 13:32:45 2024
Quant Method : I:\8270sim\sv120\241219RVT\SIM-RVT_241105_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 19 07:31:52 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv1219.D•

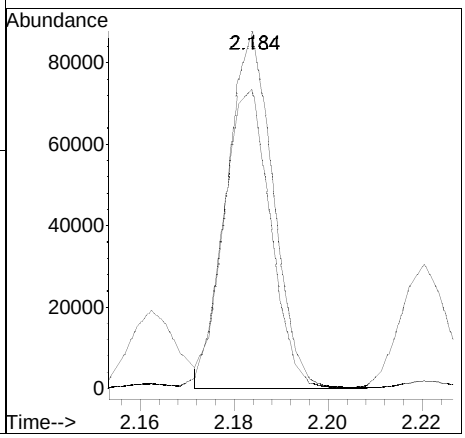


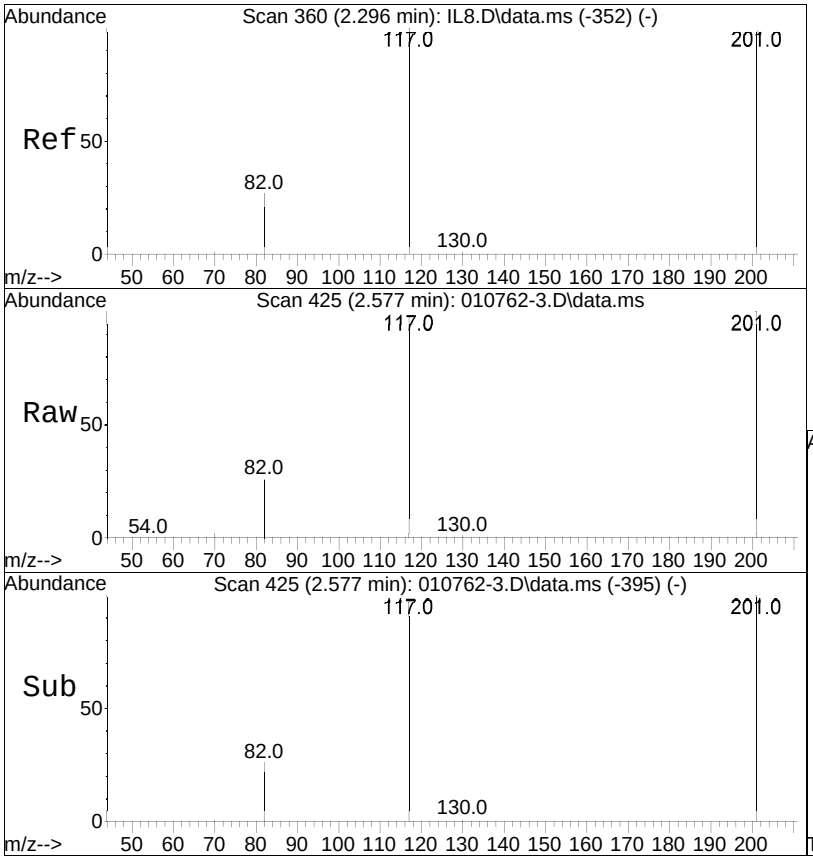


#4
Bis(2-chloroethyl)ether
Concen: 1192.34 ng/ml
RT: 2.184 min Scan# 297
Delta R.T. 0.003 min
Lab File: 010762-3.D
Acq: 19 Dec 2024 08:41 am

Tgt Ion: 93 Resp: 59138

Ion	Ratio	Lower	Upper
93	100		
63	86.8	68.7	103.1

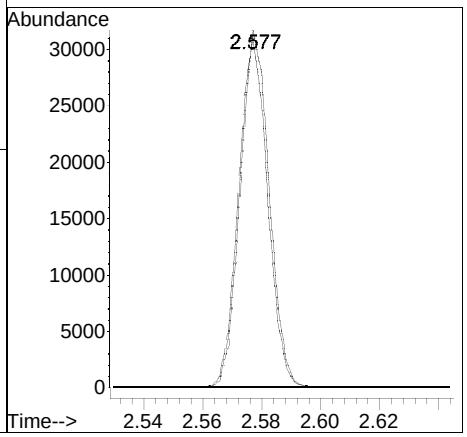


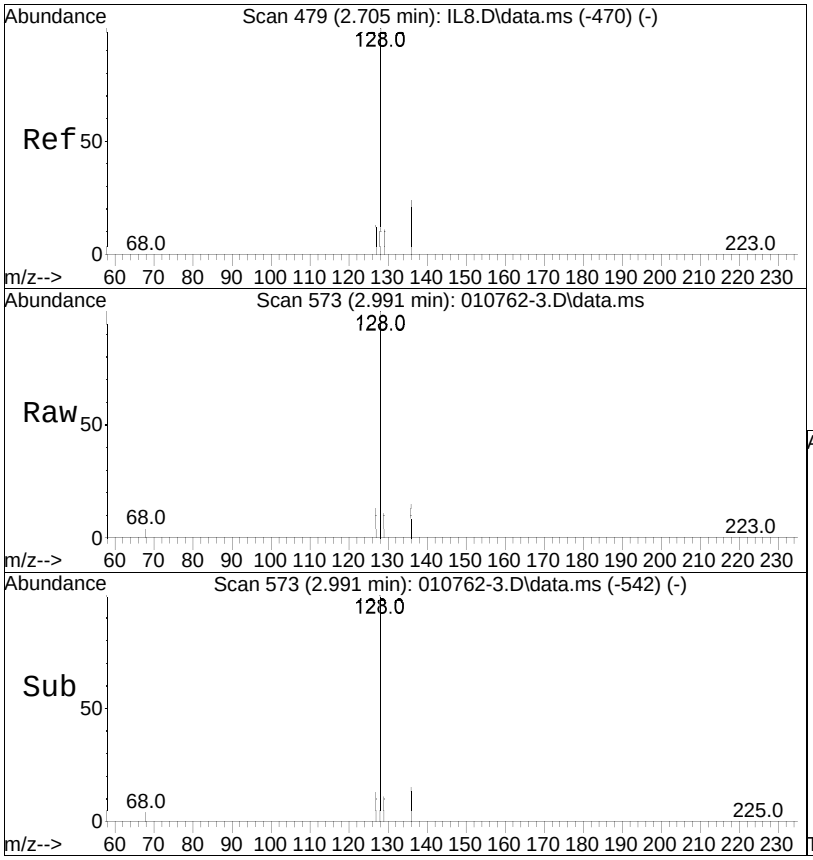


#6
Hexachloroethane
Concen: 979.92 ng/ml
RT: 2.577 min Scan# 425
Delta R.T. 0.002 min
Lab File: 010762-3.D
Acq: 19 Dec 2024 08:41 am

Tgt Ion:117 Resp: 20803

Ion	Ratio	Lower	Upper
117	100		
201	102.3	82.0	123.0

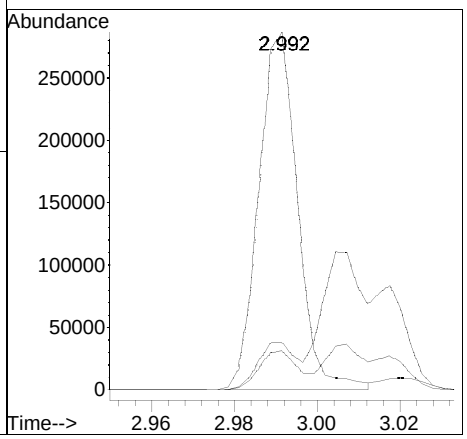


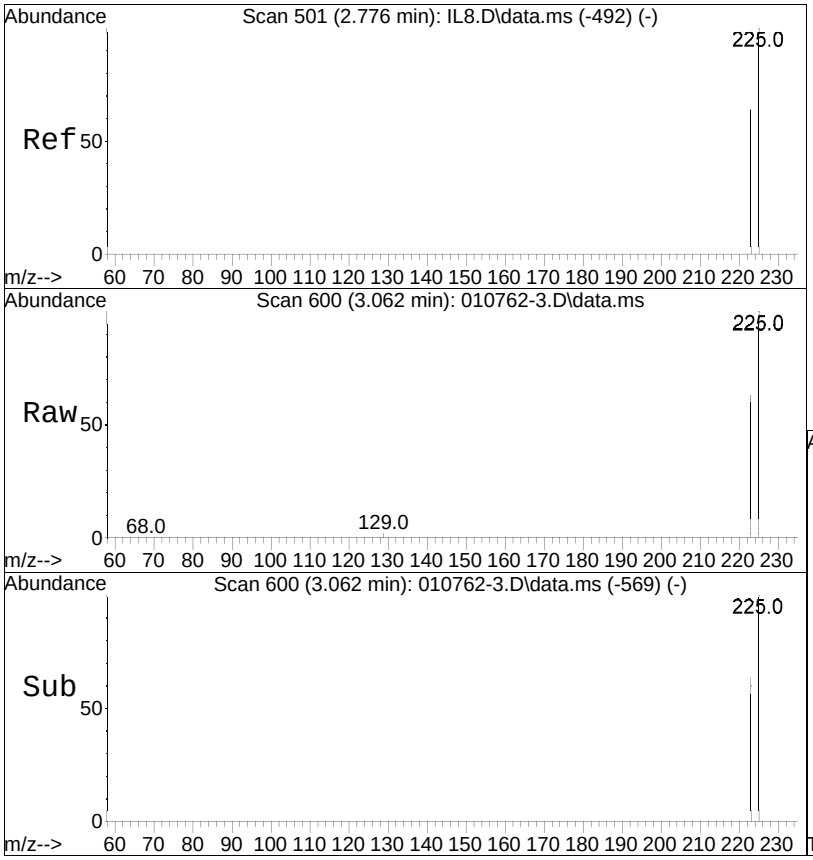


#9
Naphthalene
Concen: 1129.54 ng/ml
RT: 2.991 min Scan# 573
Delta R.T. 0.002 min
Lab File: 010762-3.D
Acq: 19 Dec 2024 08:41 am

Tgt Ion:128 Resp: 185444

Ion	Ratio	Lower	Upper
128	100		
129	11.6	8.9	13.3
127	13.7	10.7	16.1

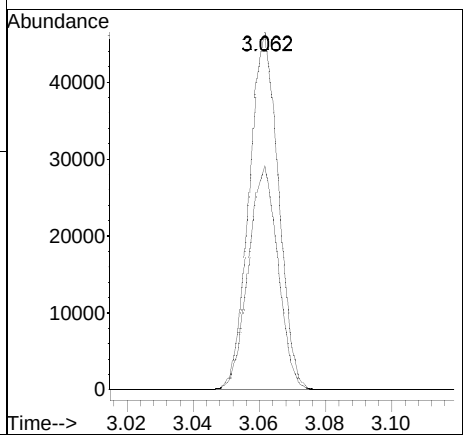


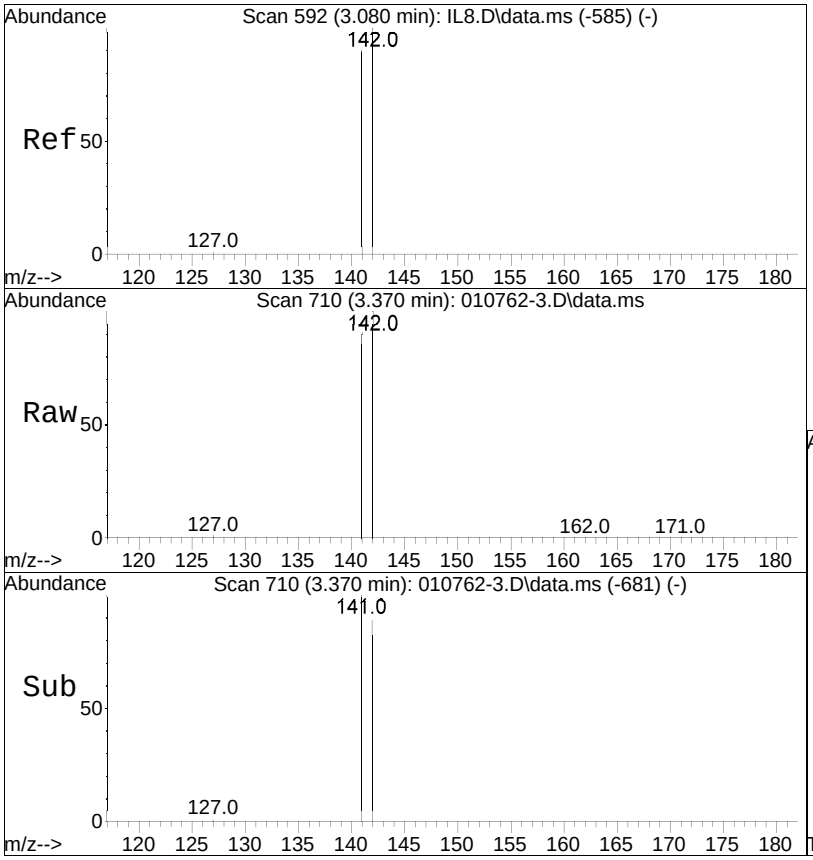


#10
Hexachlorobutadiene
Concen: 904.73 ng/ml
RT: 3.062 min Scan# 600
Delta R.T. 0.002 min
Lab File: 010762-3.D
Acq: 19 Dec 2024 08:41 am

Tgt Ion:225 Resp: 28145

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.5	75.7

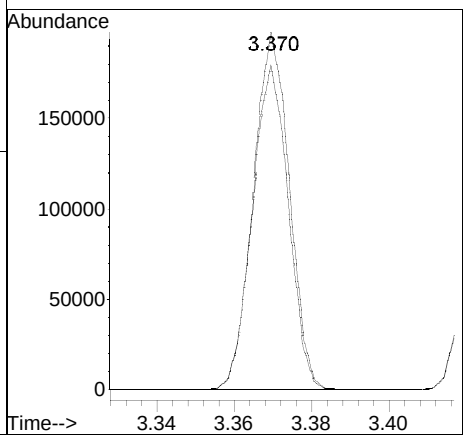


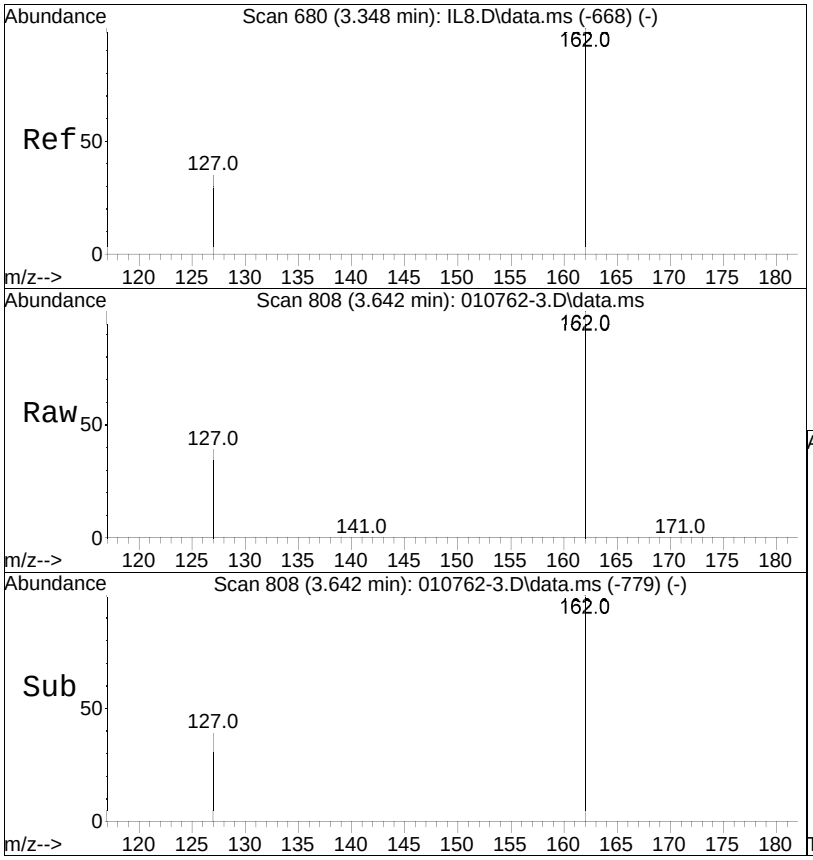


#11
2-Methylnaphthalene
Concen: 1106.87 ng/ml
RT: 3.370 min Scan# 710
Delta R.T. -0.001 min
Lab File: 010762-3.D
Acq: 19 Dec 2024 08:41 am

Tgt Ion:142 Resp: 126162

Ion	Ratio	Lower	Upper
142	100		
141	91.0	72.2	108.2

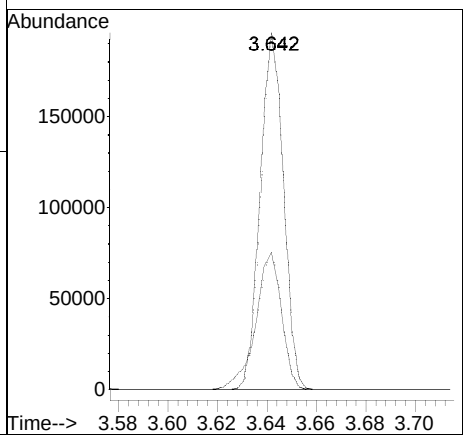


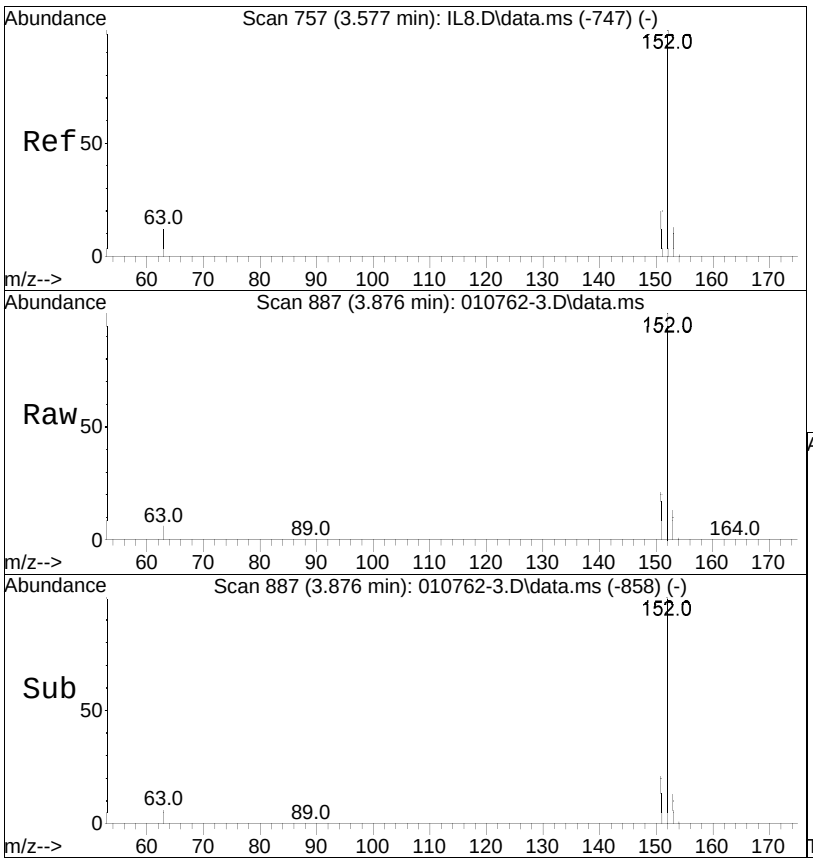


#14
2-Chloronaphthalene
Concen: 1107.23 ng/ml
RT: 3.642 min Scan# 808
Delta R.T. -0.001 min
Lab File: 010762-3.D
Acq: 19 Dec 2024 08:41 am

Tgt Ion:162 Resp: 125280

Ion	Ratio	Lower	Upper
162	100		
127	43.3	31.0	46.4

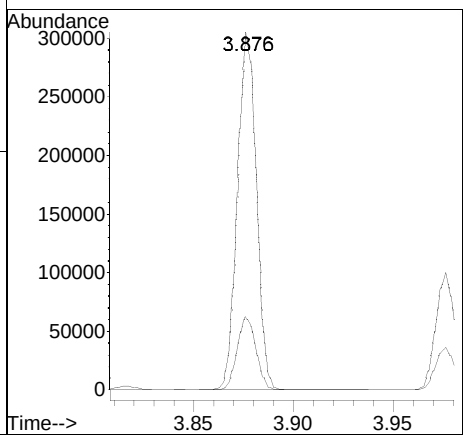


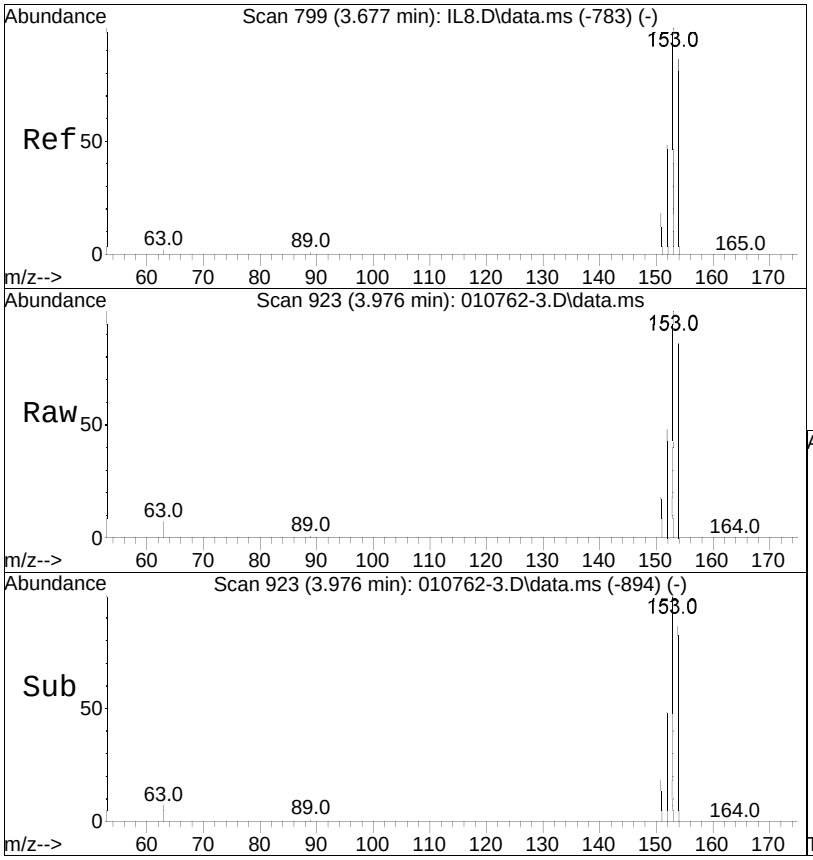


#16
Acenaphthylene
Concen: 1225.85 ng/ml
RT: 3.876 min Scan# 887
Delta R.T. -0.001 min
Lab File: 010762-3.D
Acq: 19 Dec 2024 08:41 am

Tgt Ion:152 Resp: 199977

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.4	24.6

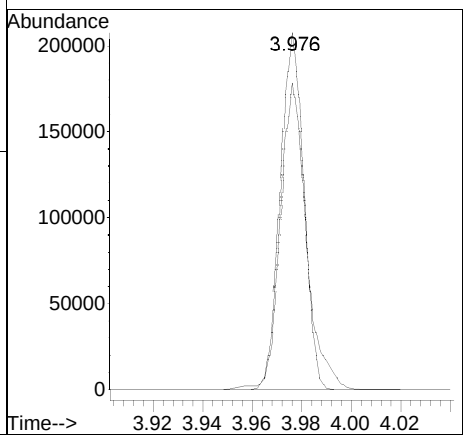


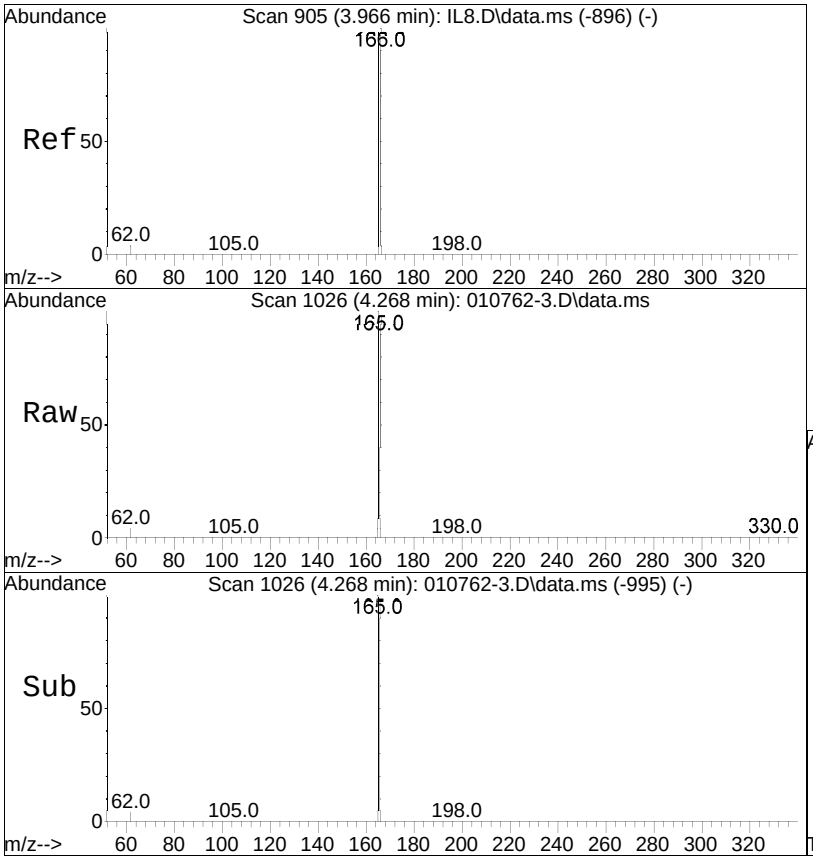


#18
Acenaphthene
Concen: 1233.21 ng/ml
RT: 3.976 min Scan# 923
Delta R.T. -0.001 min
Lab File: 010762-3.D
Acq: 19 Dec 2024 08:41 am

Tgt Ion:153 Resp: 135626

Ion	Ratio	Lower	Upper
153	100		
154	95.0	69.8	104.6

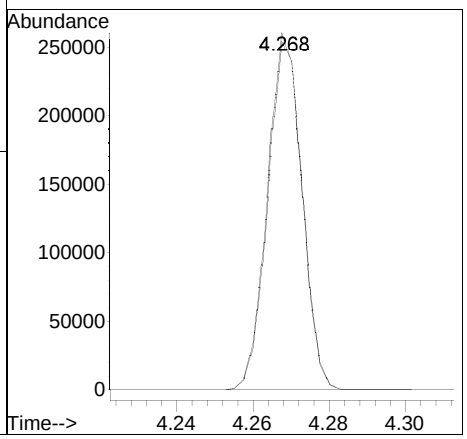


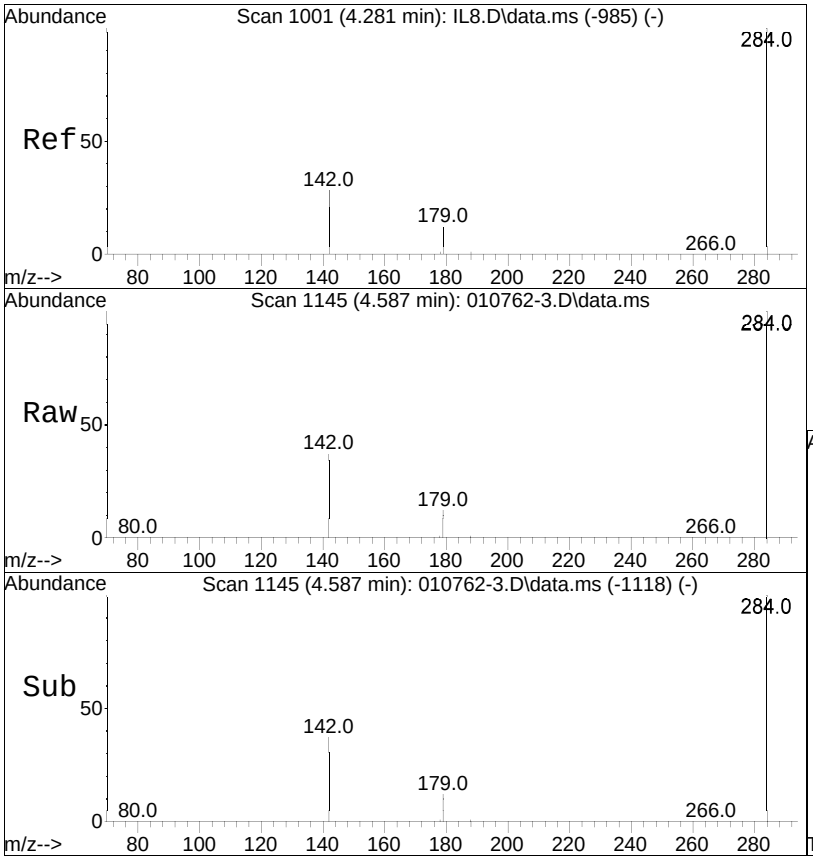


#20
Fluorene
Concen: 1339.94 ng/ml
RT: 4.268 min Scan# 1026
Delta R.T. -0.003 min
Lab File: 010762-3.D
Acq: 19 Dec 2024 08:41 am

Tgt Ion:166 Resp: 159454

Ion	Ratio	Lower	Upper
166	100		
165	101.6	80.1	120.1

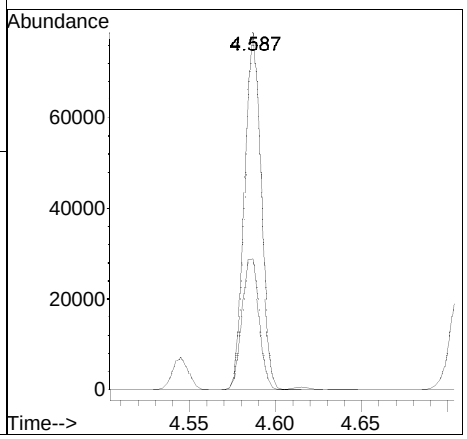


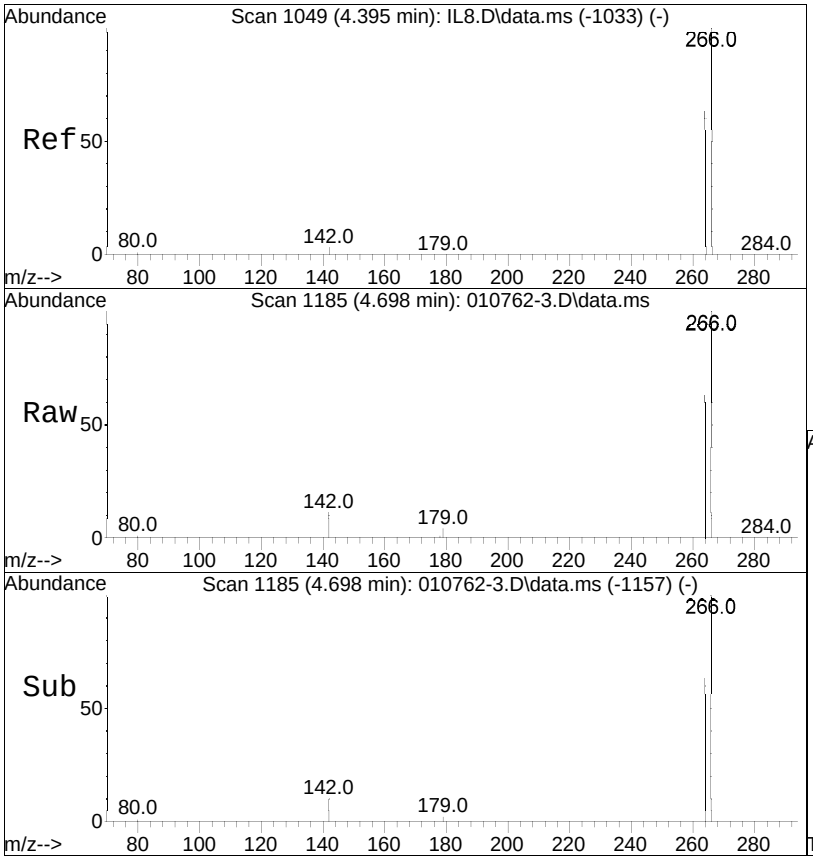


#24
Hexachlorobenzene
Concen: 1379.15 ng/ml
RT: 4.587 min Scan# 1145
Delta R.T. -0.002 min
Lab File: 010762-3.D
Acq: 19 Dec 2024 08:41 am

Tgt Ion:284 Resp: 52076

Ion	Ratio	Lower	Upper
284	100		
142	38.2	30.2	45.2

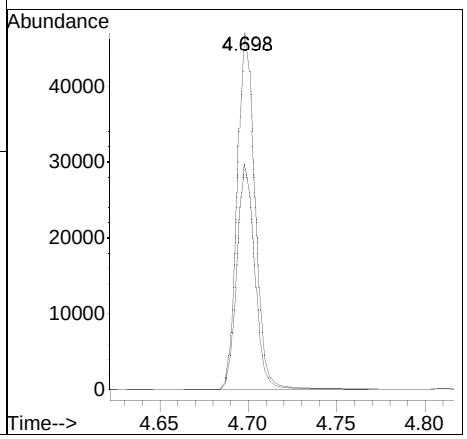


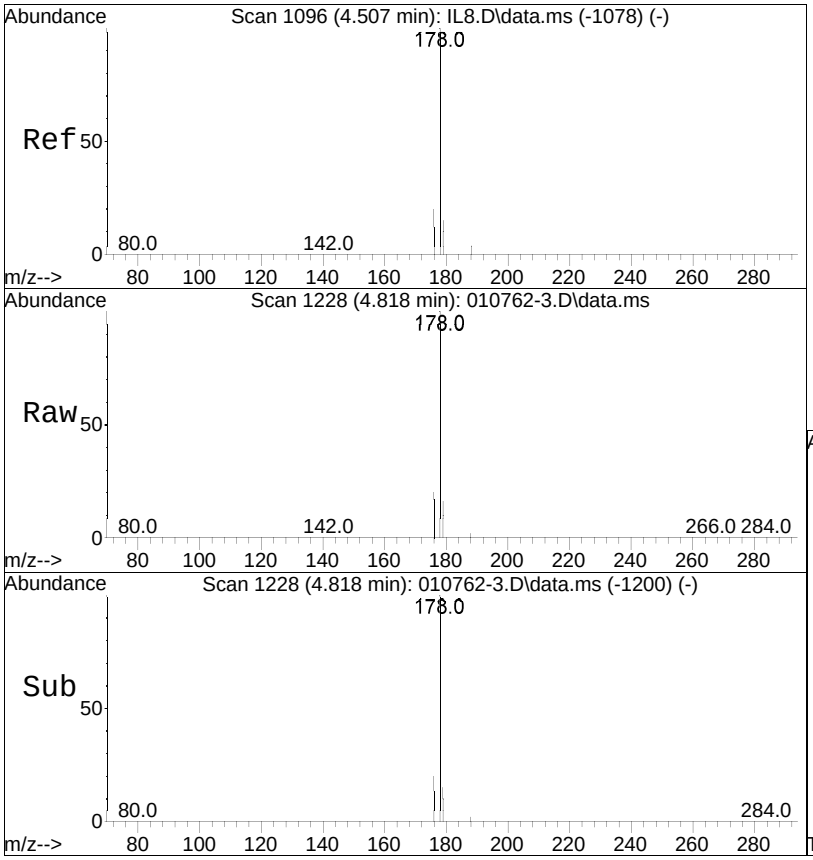


#25
Pentachlorophenol
Concen: 1549.45 ng/ml
RT: 4.698 min Scan# 1185
Delta R.T. -0.002 min
Lab File: 010762-3.D
Acq: 19 Dec 2024 08:41 am

Tgt Ion:266 Resp: 32890

Ion	Ratio	Lower	Upper
266	100		
264	63.5	50.3	75.5

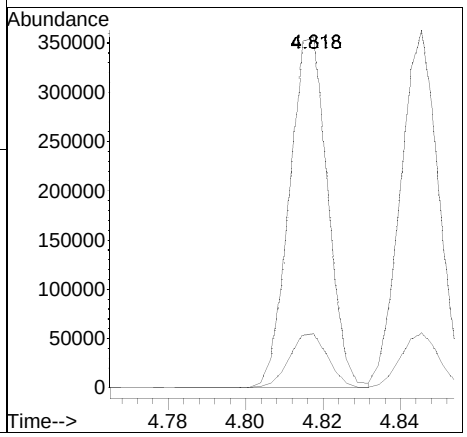


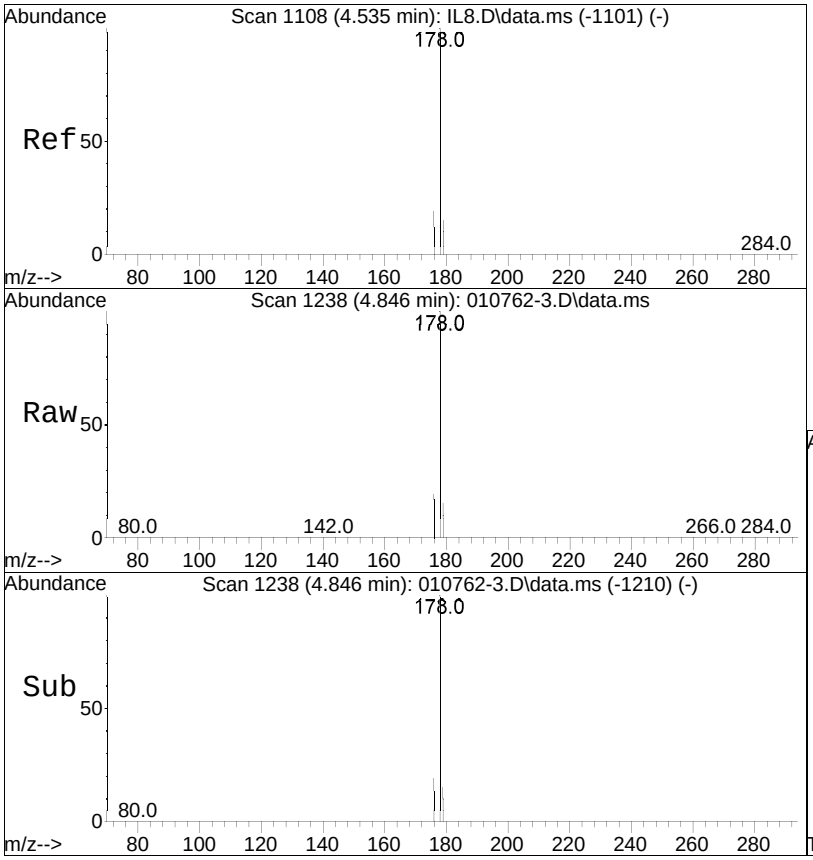


#26
Phenanthrene
Concen: 1434.56 ng/ml
RT: 4.818 min Scan# 1228
Delta R.T. -0.002 min
Lab File: 010762-3.D
Acq: 19 Dec 2024 08:41 am

Tgt Ion:178 Resp: 244377

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.5	18.7

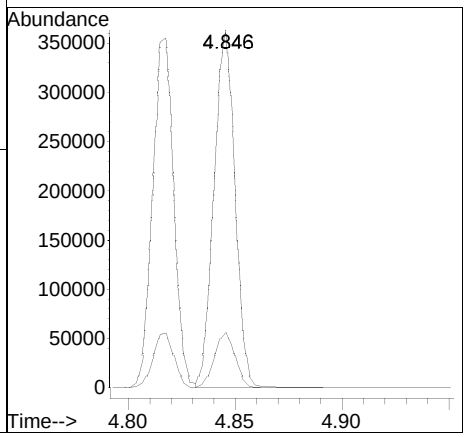


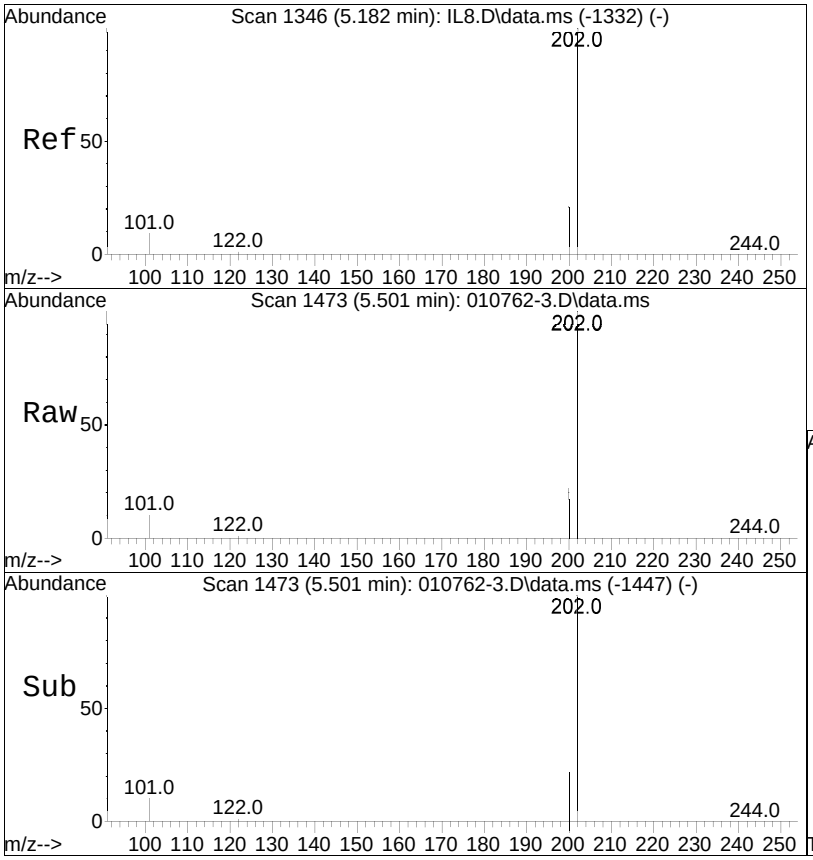


#27
Anthracene
Concen: 1405.79 ng/ml
RT: 4.846 min Scan# 1238
Delta R.T. -0.002 min
Lab File: 010762-3.D
Acq: 19 Dec 2024 08:41 am

Tgt Ion:178 Resp: 247766

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.3	18.5

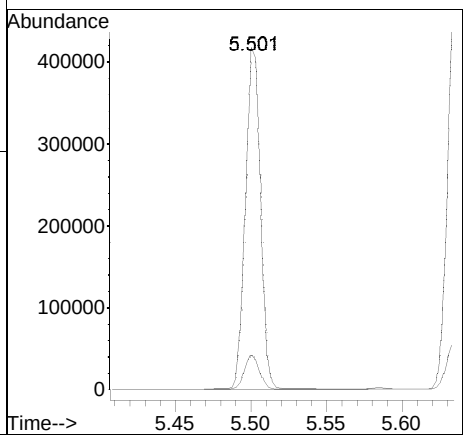


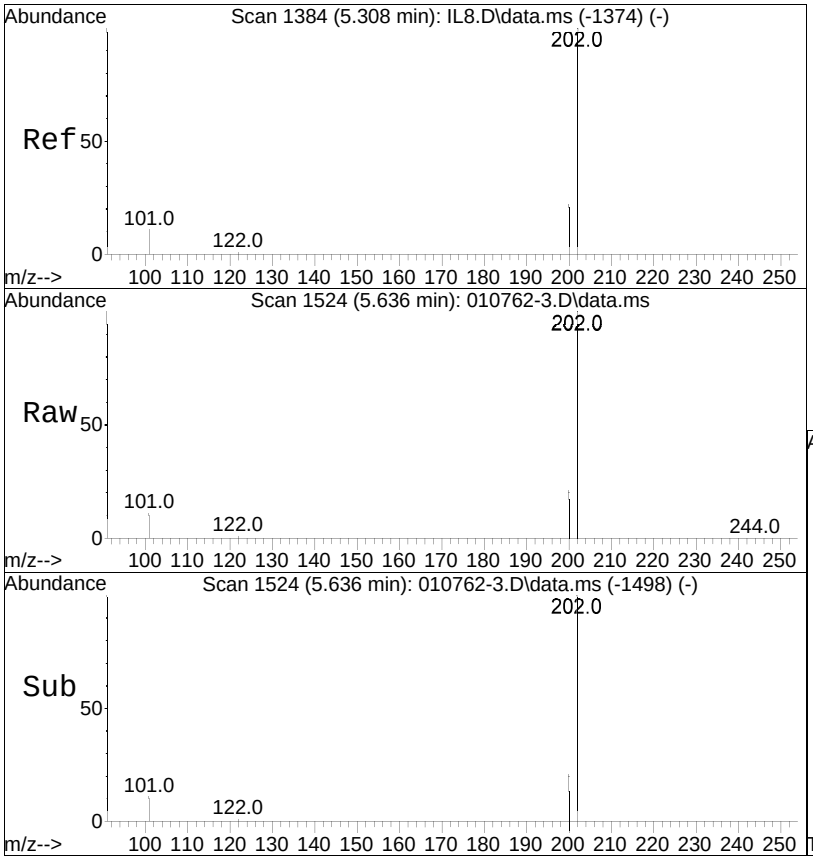


#28
Fluoranthene
Concen: 1483.42 ng/ml
RT: 5.501 min Scan# 1473
Delta R.T. -0.010 min
Lab File: 010762-3.D
Acq: 19 Dec 2024 08:41 am

Tgt Ion:202 Resp: 291054

Ion	Ratio	Lower	Upper
202	100		
101	10.0	7.8	11.6

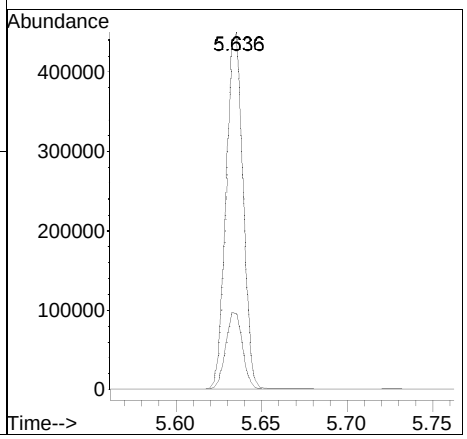


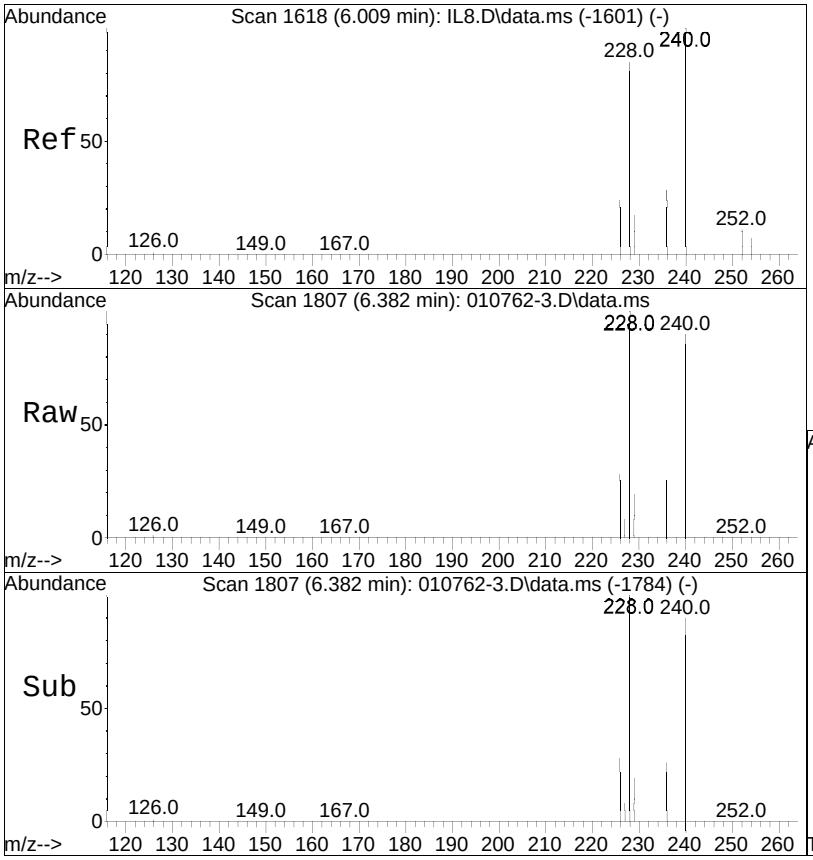


#29
Pyrene
Concen: 1499.31 ng/ml
RT: 5.636 min Scan# 1524
Delta R.T. -0.010 min
Lab File: 010762-3.D
Acq: 19 Dec 2024 08:41 am

Tgt Ion:202 Resp: 303339

Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.5	26.3

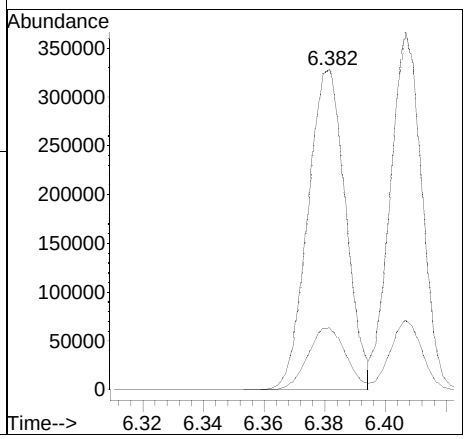


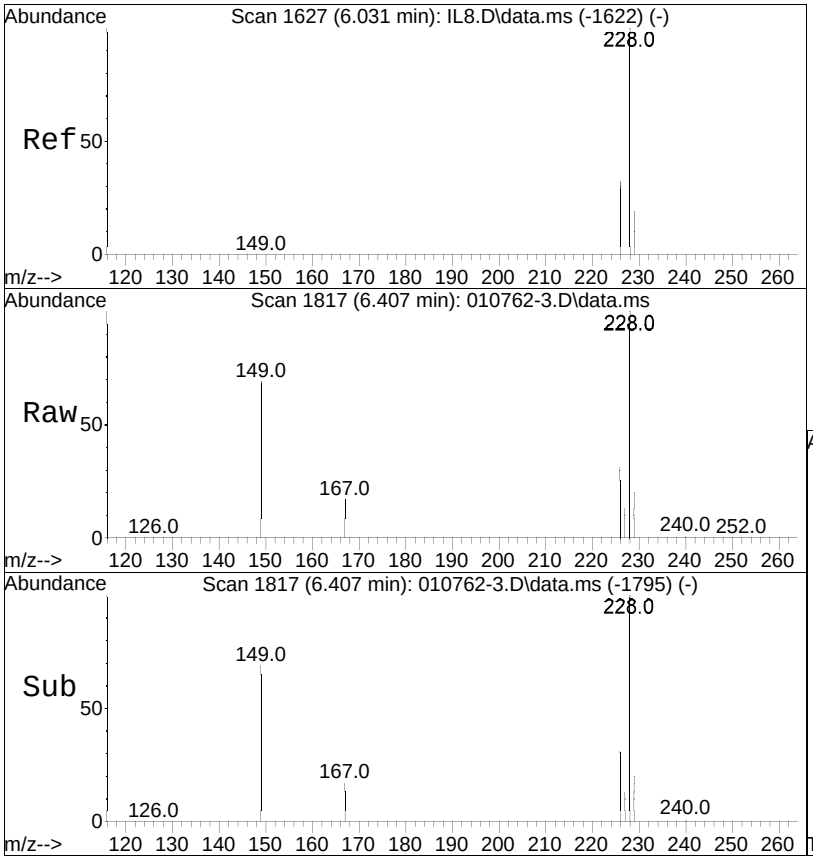


#32
Benzo[a]anthracene
Concen: 1478.89 ng/ml
RT: 6.382 min Scan# 1807
Delta R.T. -0.024 min
Lab File: 010762-3.D
Acq: 19 Dec 2024 08:41 am

Tgt Ion:228 Resp: 284541

Ion	Ratio	Lower	Upper
228	100		
229	19.5	16.2	24.4

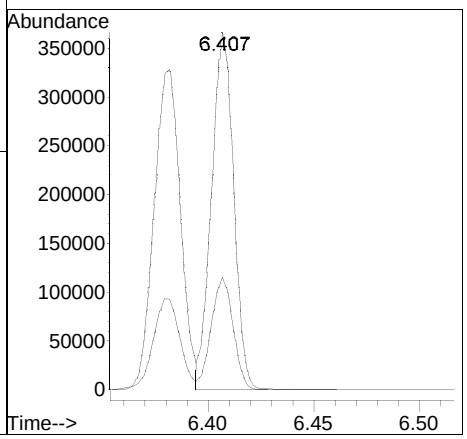


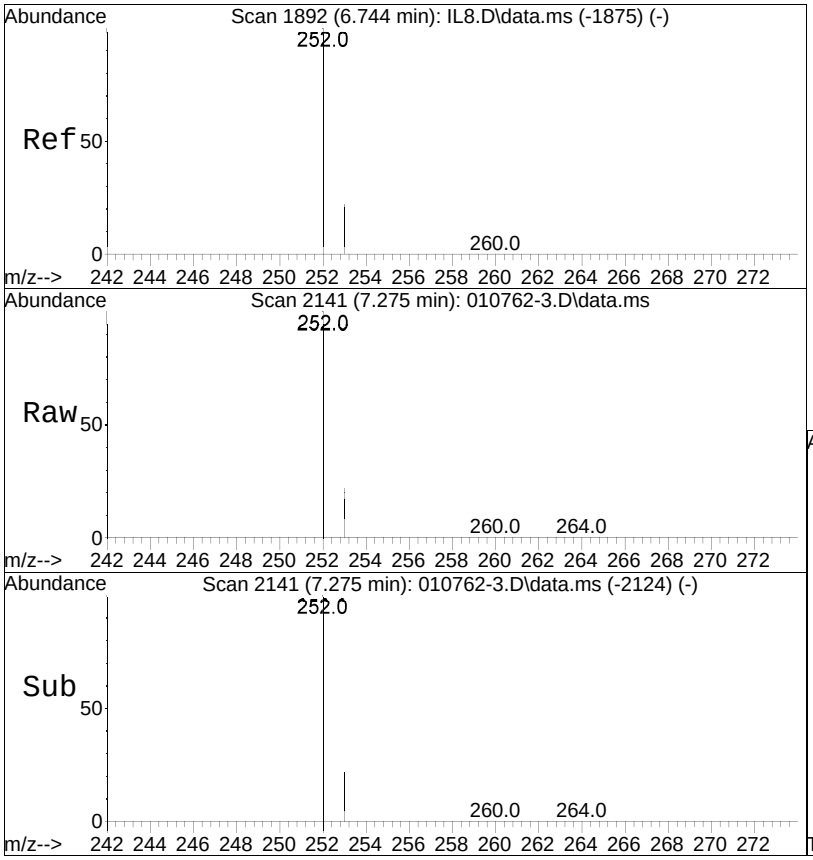


#34
Chrysene
Concen: 1589.37 ng/ml
RT: 6.407 min Scan# 1817
Delta R.T. -0.026 min
Lab File: 010762-3.D
Acq: 19 Dec 2024 08:41 am

Tgt Ion:228 Resp: 264379

Ion	Ratio	Lower	Upper
228	100		
226	31.3	24.9	37.3

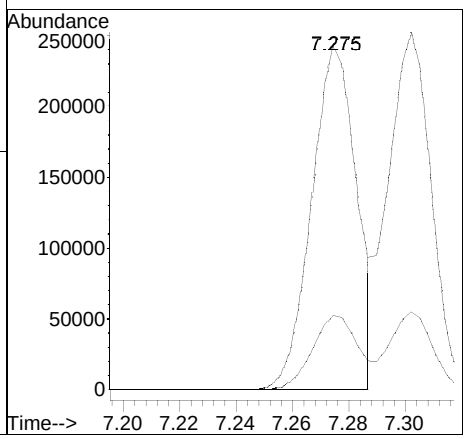


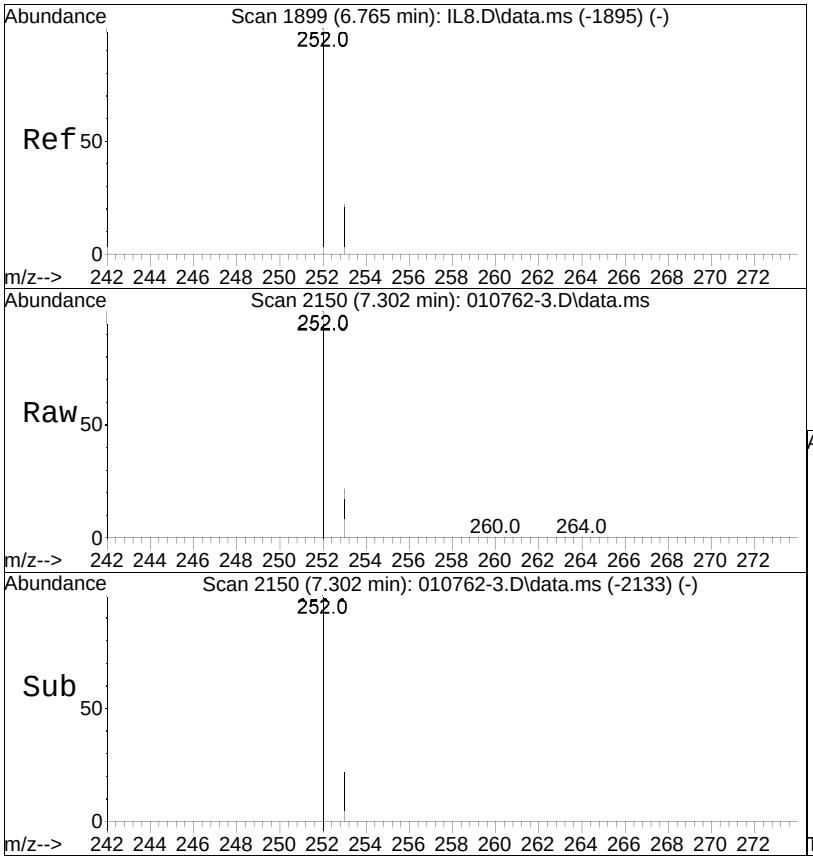


#37
Benzo[b]fluoranthene
Concen: 1402.75 ng/ml
RT: 7.275 min Scan# 2141
Delta R.T. -0.028 min
Lab File: 010762-3.D
Acq: 19 Dec 2024 08:41 am

Tgt Ion:252 Resp: 266994

Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.4	26.0

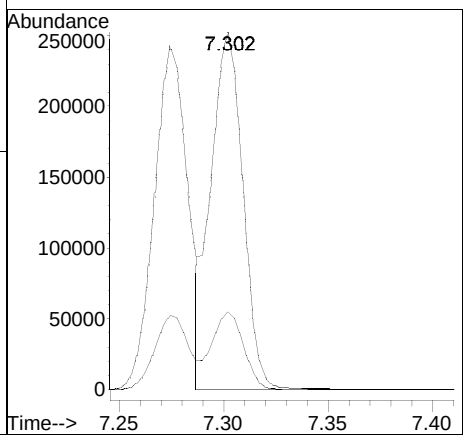


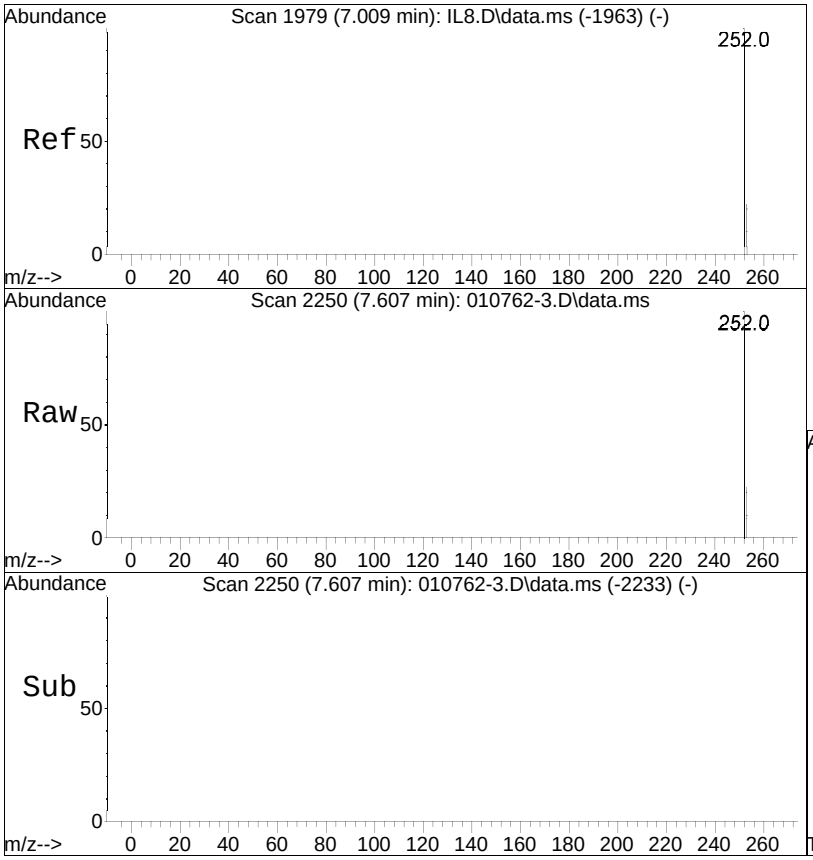


#38
Benzo[k]fluoranthene
Concen: 1566.80 ng/ml
RT: 7.302 min Scan# 2150
Delta R.T. -0.028 min
Lab File: 010762-3.D
Acq: 19 Dec 2024 08:41 am

Tgt Ion:252 Resp: 268092

Ion	Ratio	Lower	Upper
252	100		
253	20.6	17.6	26.4

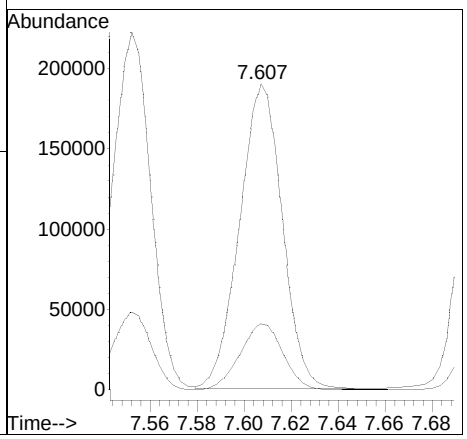


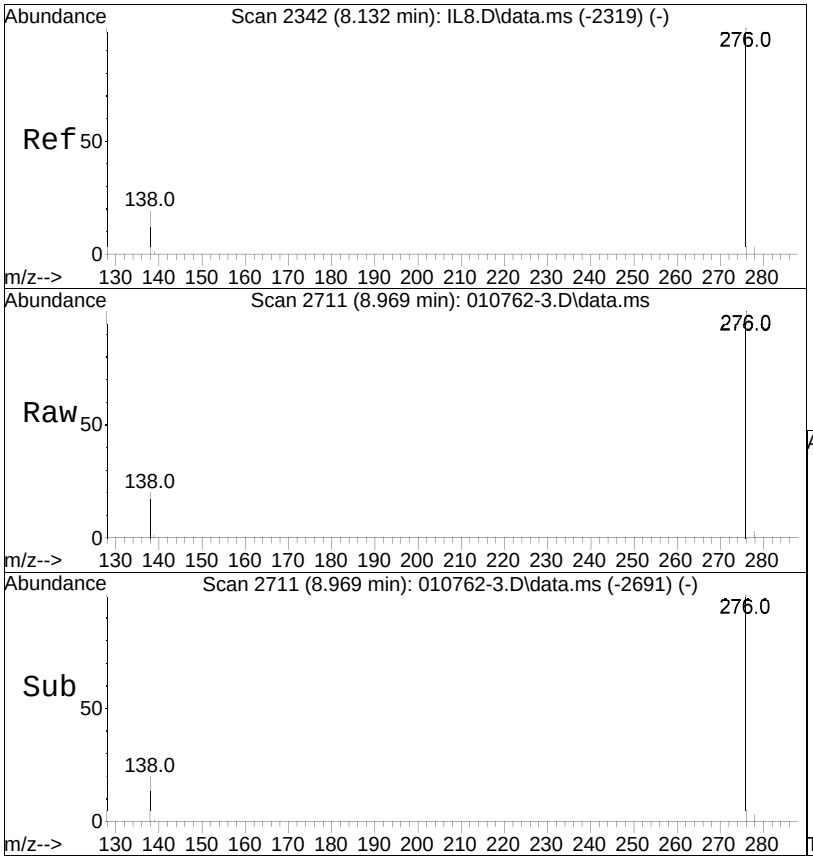


#39
Benzo[a]pyrene
Concen: 1517.01 ng/ml
RT: 7.607 min Scan# 2250
Delta R.T. -0.028 min
Lab File: 010762-3.D
Acq: 19 Dec 2024 08:41 am

Tgt Ion:252 Resp: 236503

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.2

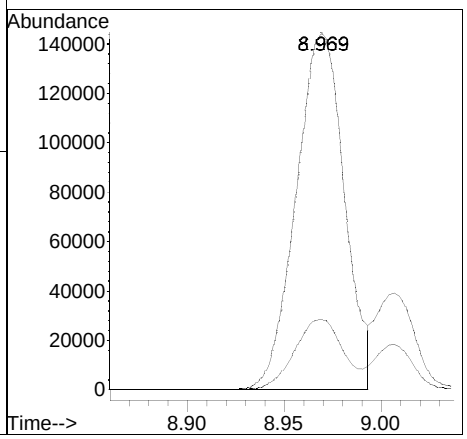


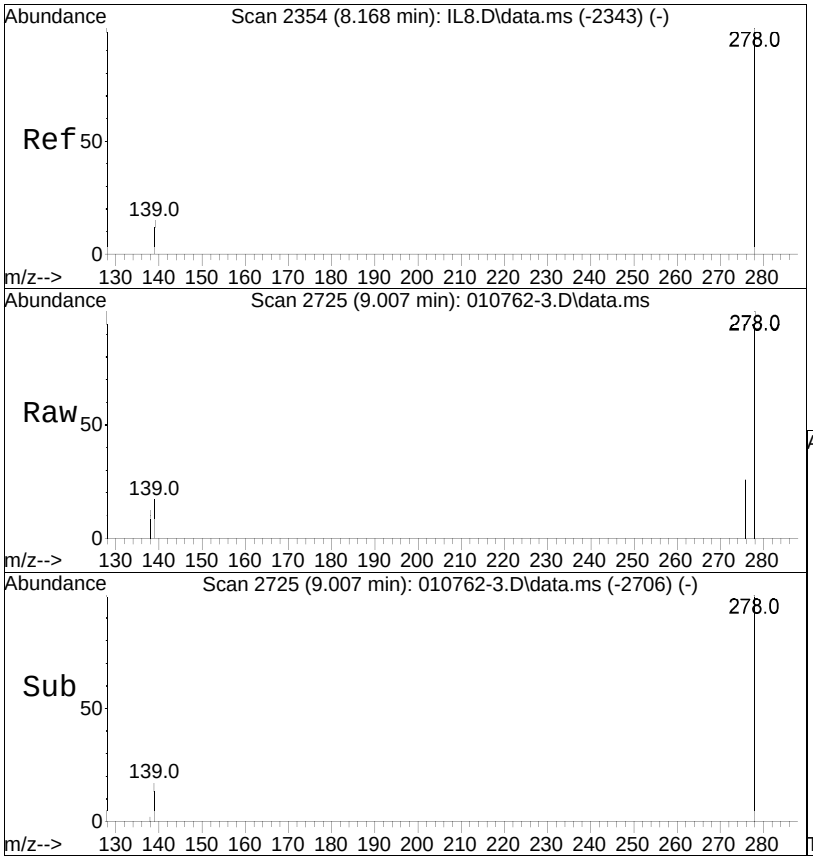


#40
Indeno[1,2,3-cd]pyrene
Concen: 1554.16 ng/ml
RT: 8.969 min Scan# 2711
Delta R.T. -0.025 min
Lab File: 010762-3.D
Acq: 19 Dec 2024 08:41 am

Tgt Ion:276 Resp: 247756

Ion	Ratio	Lower	Upper
276	100		
138	20.2	15.4	23.0

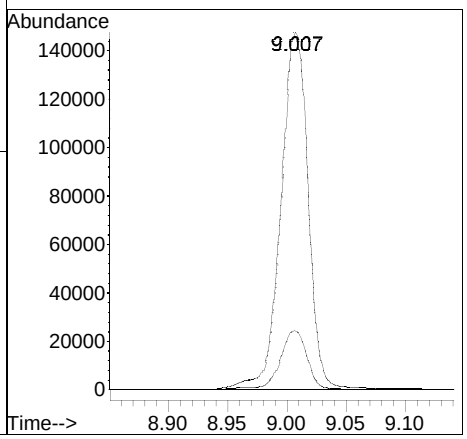


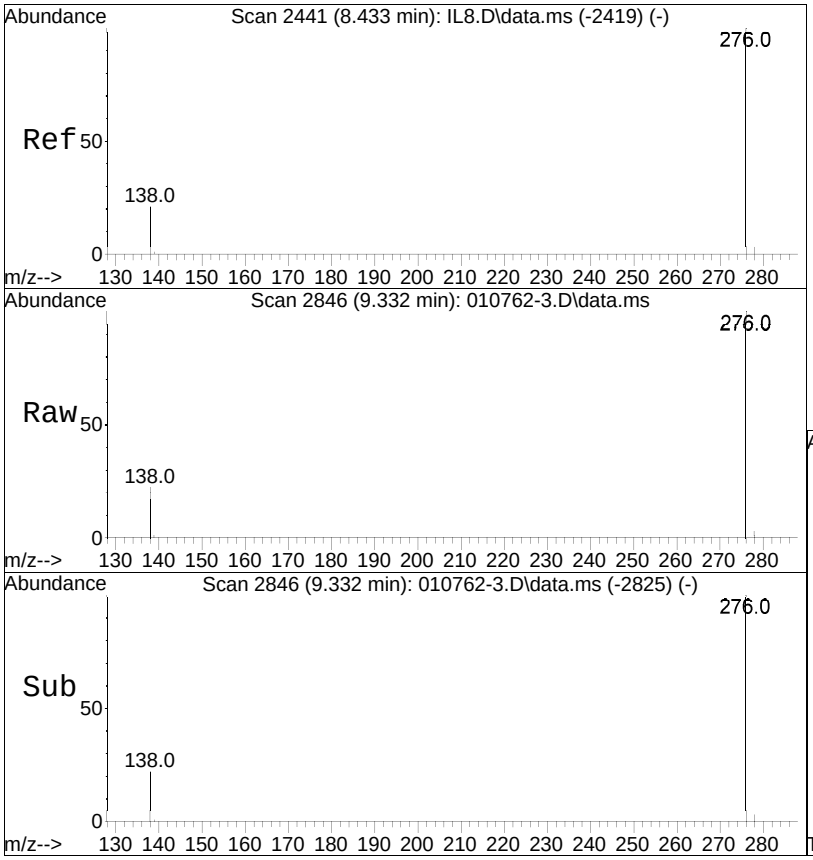


#41
Dibenzo[a,h]anthracene
Concen: 1559.78 ng/ml
RT: 9.007 min Scan# 2725
Delta R.T. -0.028 min
Lab File: 010762-3.D
Acq: 19 Dec 2024 08:41 am

Tgt Ion:278 Resp: 233595

Ion	Ratio	Lower	Upper
278	100		
139	16.6	13.0	19.6

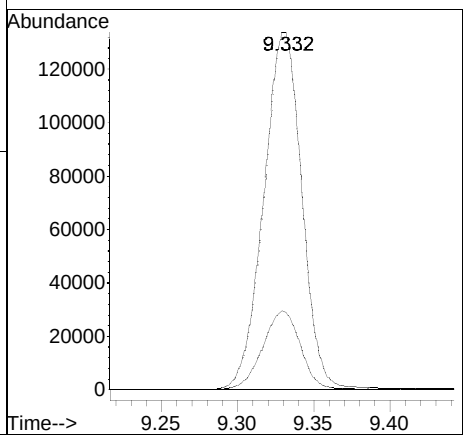




#42
Benzo[g,h,i]perylene
Concen: 1479.87 ng/ml
RT: 9.332 min Scan# 2846
Delta R.T. -0.023 min
Lab File: 010762-3.D
Acq: 19 Dec 2024 08:41 am

Tgt Ion:276 Resp: 229125

Ion	Ratio	Lower	Upper
276	100		
138	22.0	16.6	25.0



Manual Integration Report

Data Path	: I:\8270SIM\sv120\241219RVTQ	Method	: SIM-RVT_241105_sv120.M
Data File	: 010762-3.D	Operator	: SV120:slr
Date Inj'd	: 12/19/2024 8:41 am	Instrument	: SV120
Sample	: WG2010762-3,32,,kmh	Quant Date	: 12/19/2024 1:34 pm

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 22 2024, 08:37 pm

Work Group: WG2010762 for Department: 2 Organic Preparation

Created: 18-DEC-24 Due: Operator: NBD

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2473420-01	MW-1	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	1219	1220	S0	Amber-A.1
L2473420-02	MW-2	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	1219	1220	S0	Amber-A.1
L2473420-03	MW-3	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	1219	1220	S0	Amber-A.1
L2473420-04	MW-4	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	1219	1220	S0	Amber-A.1
L2473538-01	PZ-5	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	1220	1220	S0	Amber-A.1
L2473538-02	MW-5D	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	1220	1220	S0	Amber-A.1
L2473538-03	SCDOH-DR	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	1220	1220	S0	Amber-A.1
L2473538-04	MW-10S	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	1220	1220	S0	Amber-A.1
L2473538-05	MW-10D	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	1220	1220	S0	Amber-A.1
L2473561-03	TW-03	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	1220	1220	S0	Amber-A.1
L2473561-06	TW-04	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	1220	1220	S0	Amber-A.1
L2473639-01	SW-N-12-13-24-S	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	1220	1220	S0	Amber-A.1
L2473639-02	SW-N-12-13-24-M	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	1220	1220	S0	Amber-A.1
L2473639-03	SW-N-12-13-24-D	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	1220	1220	S0	Amber-A.1
L2473639-04	SW-S-12-13-24-S	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	1220	1220	S0	Amber-A.1
L2473639-05	SW-S-12-13-24-S	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	1220	1220	S0	Amber-A.1
L2473639-06	SW-S-12-13-24-S	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	1220	1220	S0	Amber-A.1
WG2010762-1	Laboratory Method Bl	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG2010762-2	Laboratory Control S	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG2010762-3	LCS Duplicate	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				

Comments:

WG2010762-3 WG2010762-2

Analysis log File

Total Files Reported in Log : 17
Log Generated From Directory: I:\8270SIM\sv120\241105RVTical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	TUNE.D	DFTPPRVT.M	TUNE	WG1993471	11/5/2024 6:14 am
2	ccvtest.D	fast-SIM-RVT			11/5/2024 6:32 am
3	ccvtesta.D	fast-SIM-RVT			11/5/2024 6:58 am
4	ccvtestb.D	fast-SIM-RVT			11/5/2024 7:14 am
5	IL10.D	fast-SIM-RVT	IL10,32,,5000.0ng/mL lo	WG1993471	11/5/2024 7:30 am
6	IL9.D	fast-SIM-RVT	IL9,32,,2500.0ng/mL lot	WG1993471	11/5/2024 7:47 am
7	IL8.D	fast-SIM-RVT	IL8,32,,1000.0ng/mL lot	WG1993471	11/5/2024 8:03 am
8	IL7.D	fast-SIM-RVT	IL7,32,,500.0ng/mL lot#	WG1993471	11/5/2024 8:19 am
9	IL6.D	fast-SIM-RVT	IL6,32,,100.0ng/mL lot#	WG1993471	11/5/2024 8:36 am
10	IL5.D	fast-SIM-RVT	IL5,32,,40.0ng/mL lot#	WG1993471	11/5/2024 8:52 am
11	IL4.D	fast-SIM-RVT	IL4,32,,10.0ng/mL lot#1	WG1993471	11/5/2024 9:08 am
12	IL3.D	fast-SIM-RVT	IL3,32,,5.0ng/mL lot# 1	WG1993471	11/5/2024 9:24 am
13	IL2.D	fast-SIM-RVT	IL2,32,,2.0ng/mL lot# 1	WG1993471	11/5/2024 9:41 am
14	IL1.D	fast-SIM-RVT	IL1,32,,1.0ng/mL lot# 1	WG1993471	11/5/2024 9:57 am
15	ICV.D	fast-SIM-RVT	CQICV,32,,1000.0ng/mL l	WG1993471	11/5/2024 10:13 am
16	insblk.D	fast-SIM-RVT	instrument blank	WG1993471	11/5/2024 10:29 am
17	ccvtestn.D	fast-SIM-RVT			11/5/2024 4:39 pm

Dep.: GCMS
Inst: SV120
Date: **12/19/24**
Run:

Method
GC: SIM RVT

Seq: WG2011166
ICAL: ICAL21668

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	Initials
48	deg1219	wg-1,32,, dftpp SV120 lot#11212				12/19 kmh
49	ccv1219	wg-3,32,,ICV 10884 (1130a)				12/19 kmh
50	blk1219	Instrument Blank				
1	010030-2	WG2010030-2,32,RV,kmh				12/19 kmh
2	010030-3	WG2010030-3,32,RV,kmh				12/19 kmh
3	010762-2	WG2010762-2,32,,kmh				slr 12/19
4	010762-3	WG2010762-3,32,,kmh				slr 12/19
5	010762-1	WG2010762-1,32,,kmh				slr 12/19
6	73538-01	L2473538-01,32,,kmh				12/19 sbc
7	73538-02	L2473538-02,32,,kmh				12/19 sbc
8	73538-03	L2473538-03,32,,kmh				12/19 sbc
9	953-03d1	L2472953-03d,32,20,kmh			Sv-gmr	12/19 kmh
10	73538-04	L2473538-04,32,,kmh				12/19 sbc
11	73538-05	L2473538-05,32,,kmh				12/19 sbc
12	73438-01	L2473438-01,32,,kmh				slr 12/19
13	73438-03	L2473438-03,32,,kmh	RX HCB hit			slr 12/19
14	010959-2	WG2010959/1034-2,32,,kmh				12/19 RAP
15	011034-3	WG2010959/1034-3,32,,kmh				12/19 RAP
16	010959-1	WG2010959/1034-1,32,,kmh				12/19 RAP
17	73616-01	L2473616-01,32,,kmh				12/19 RAP
18	011023-2	WG2011023-2,32,,kmh				slr 12/19
19	010561-1	WG2010561-1,32,,RV,kmh	confirmed HCB .RL hit			slr 12/19
20	011023-3	WG2011023-3,32,,kmh				slr 12/19
21	011023-1	WG2011023-1,32,,kmh				slr 12/19
22	011095-2	WG2011095-2,32,,kmh				12/19 sbc
23	011095-3	WG2011095-3,32,,kmh				12/19 sbc
24	011095-1	WG2011095-1,32,,kmh				12/19 sbc
25	74735-01	L2474735-01,32,,R3A,kmh				12/19 sbc
26	74735-02	L2474735-02,32,,R3A,kmh				12/19 sbc
27	74735-03	L2474735-03,32,,R3A,kmh				12/19 sbc
28	74735-04	L2474735-04,32,,R3A,kmh				12/19 sbc
29	74735-05	L2474735-05,32,,R3A,kmh				12/19 sbc
30	74735-06	L2474735-06,32,,R3A,kmh				12/19 sbc
31	74735-07	L2474735-07,32,,R3A,kmh				12/19 RAP
32	74735-08	L2474735-08,32,,R3A,kmh				12/19 RAP
33	74735-09	L2474735-09,32,,R3A,kmh				12/19 RAP
34	74735-13	L2474735-13,32,,R3A,kmh			SV-RAP	12/19 RAP
35	73639-01	L2473639-01,32,,kmh				slr 12/20
36	73639-02	L2473639-02,32,,kmh				slr 12/20
37	73639-03	L2473639-03,32,,kmh				slr 12/20
38	73639-04	L2473639-04,32,,kmh				slr 12/20
39	73639-05	L2473639-05,32,,kmh				slr 12/20
40	73639-06	L2473639-06,32,,kmh			kmh	slr 12/20
					SV-RAP	

ORGANIC ELN REPORT

Workgroup: WG2010762

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EJ507
Surrogate Type: ABN **Lot #:** 11164av,05/20/2025,4c,7,1
Spike Type: ABN-SIM **Lot #:** 11106ae-042325, 11092af,03/3
Spike Verify by: NBD/JCL
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
L2473420-01 SAMP	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K
L2473420-02 SAMP	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K
L2473420-03 SAMP	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K
L2473420-04 SAMP	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K
	HEAVY EMULSION									
L2473538-01 SAMP	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K
L2473538-02 SAMP	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K
L2473538-03 SAMP	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K

Reported: 22-DEC-24 08:37 PM

ORGANIC ELN REPORT

Workgroup: WG2010762

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
L2473538-04 SAMP	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K
L2473538-05 SAMP	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K
L2473561-03 SAMP	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K
L2473561-06 SAMP	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K
L2473639-01 SAMP	12/18/24 13:29	Nicholas Dunn	75	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K
lim vol rcvd from client, BROUGHT UP TO 100mL WITH 25 mL DI										
L2473639-02 SAMP	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K
L2473639-03 SAMP	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K
L2473639-04 SAMP	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K
L2473639-05 SAMP	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K
L2473639-06 SAMP	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K

ORGANIC ELN REPORT

Workgroup: WG2010762

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
WG2010762-1 BLANK	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1		12/18/24 18:14	Victor Kono	1	K
	WG2010761,WG2010762									
WG2010762-2 LCS	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1	.1	12/18/24 18:14	Victor Kono	1	K
WG2010762-3 LCSD	12/18/24 13:29	Nicholas Dunn	100	<2, >12	.1	.1	12/18/24 18:14	Victor Kono	1	K

GCMS Extractables 1,4-Dioxane By SIM

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Semivolatiles

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

Lab Number: L2473538
Project Number: 2232.0006Y005
Matrix: Equipment Blank/Water

CLIENT ID (LAB SAMPLE NO.)	S1 ()	S2 ()	S3 ()	S4 ()	S5 ()	S6 ()	TOT OUT
MW-10S (L2473538-04)	39	--	--	--	--	--	0
EB_12132024 (L2473538-06)	37	--	--	--	--	--	0
WG2009460-1BLANK	37	--	--	--	--	--	0
WG2009460-2LCS	35	--	--	--	--	--	0
WG2009460-3LCSD	33	--	--	--	--	--	0

QC LIMITS
(15-110) S1 = 1,4-DIOXANE-D8

*** Values outside of QC limits**

FORM II A2-14-DIOXANESIM-PPB

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG2009460-2 **Analysis Date** : 12/18/24 01:35	**File ID**	: F512172433
LCSD Sample ID	: WG2009460-3 **Analysis Date** : 12/18/24 02:03	**File ID**	: F512172434

	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**
1,4-Dioxane	5	6.51	130	5	6.64	133	2	40-140	30

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG2009460-1	**Lab File ID**	: F512172432
Instrument ID	: PAH5	**Extraction Date**	: 12/15/24
Matrix	: WATER	**Analysis Date**	: 12/18/24 01:07
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG2009460-2LCS	WG2009460-2	12/18/24 01:35
WG2009460-3LCSD	WG2009460-3	12/18/24 02:03
MW-10S	L2473538-04	12/18/24 12:51
EB_12132024	L2473538-06	12/18/24 13:20

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PAH5	**Analysis Date**	: 12/02/24 13:55
Tune Standard	: R1906840-1	**Tune File ID**	: F512022401_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	33.2
68	Less than 2.0% of mass 69	0 (0)1
70	Less than 2.0% of mass 69	0 (0)1
127	10.0 - 80.0% of Base Peak	51.5
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	27.4
365	Greater than 1.0% of mass 198	2.7
441	Present, but less than 24% of mass 442	16.1
442	Base Peak, or >50% of mass 198	76.6
443	15.0 - 24.0% of mass 442	14.3 (18.6)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD 10	R1906840-2	F512022402	12/02/24 14:45
STD 50	R1906840-3	F512022403	12/02/24 15:15
STD 100	R1906840-4	F512022404	12/02/24 15:46
STD 500	R1906840-5	F512022405	12/02/24 16:16
STD 1000	R1906840-6	F512022406	12/02/24 16:45
STD 5000	R1906840-8	F512022407	12/02/24 17:15
STD 10000	R1906840-7	F512022408	12/02/24 17:44
ICV QUANT REPORT	R1906840-9	F512022409	12/02/24 18:14

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PAH5	**Analysis Date**	: 12/17/24 22:00
Tune Standard	: WG2010208-3	**Tune File ID**	: F512172426_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	34.7
68	Less than 2.0% of mass 69	0 (.1)1
70	Less than 2.0% of mass 69	0.1 (.2)1
127	10.0 - 80.0% of Base Peak	54.4
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	27.4
365	Greater than 1.0% of mass 198	3.1
441	Present, but less than 24% of mass 442	16.4
442	Base Peak, or >50% of mass 198	76.6
443	15.0 - 24.0% of mass 442	14.6 (19)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
WG2010208-4CCAL	WG2010208-4	F512172427	12/17/24 22:48
WG2009460-1BLANK	WG2009460-1	F512172432	12/18/24 01:07
WG2009460-2LCS	WG2009460-2	F512172433	12/18/24 01:35
WG2009460-3LCSD	WG2009460-3	F512172434	12/18/24 02:03

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PAH5	**Analysis Date**	: 12/18/24 10:36
Tune Standard	: WG2010208-5	**Tune File ID**	: F512172453_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	34.7
68	Less than 2.0% of mass 69	0 (0)1
70	Less than 2.0% of mass 69	0.1 (.3)1
127	10.0 - 80.0% of Base Peak	53.7
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	28.2
365	Greater than 1.0% of mass 198	3.2
441	Present, but less than 24% of mass 442	16.5
442	Base Peak, or >50% of mass 198	87.3
443	15.0 - 24.0% of mass 442	16.4 (18.8)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG2010208-6CCAL	WG2010208-6	F512172454	12/18/24 11:23
MW-10S	L2473538-04	F512172457	12/18/24 12:51
EB_12132024	L2473538-06	F512172458	12/18/24 13:20

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PAH5	**Analysis Date**	: 12/17/24 22:48:00
Sample No	: WG2010208-4	**Lab File ID**	: F512172427

	1,4-Dichlorobenzene-d4					
	Area	RT	Area	RT	Area	RT
WG2010208-4	17130	7.76				
Upper Limit	34260	8.26				
Lower Limit	8565	7.26				
Sample ID						
WG2009460-1 BLANK	15076	7.76				
WG2009460-2 LCS	14660	7.76				
WG2009460-3 LCSD	13979	7.76				

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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PAH5	**Analysis Date**	: 12/18/24 11:23:00
Sample No	: WG2010208-6	**Lab File ID**	: F512172454

	1,4-Dichlorobenzene-d4					
	Area	RT	Area	RT	Area	RT
WG2010208-6	18416	7.77				
Upper Limit	36832	8.27				
Lower Limit	9208	7.27				
Sample ID						
MW-10S	15269	7.77				
EB_12132024	14912	7.76				

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: 03/21/22
Created By: Jason Hebert
File: PM12115-1
Page: 1

1,4 Dioxane via EPA 8270D-SIM (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 250ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dioxane	123-91-1	150	33.9	ng/l	40-140	30	40-140	30	30			
1,4-Dioxane-d8	*17647-74-4*									*15-110*		
1,4-Dioxane-d8 (IS)	17647-74-4			ng/l								

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: 03/21/22
Created By: Jason Hebert
File: PM12118-1
Page: 1

1,4 Dioxane via EPA 8270D-SIM (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		
1,4-Dioxane	123-91-1	8	2.04	ug/kg	40-140	30	40-140	30	30			
1,4-Dioxane-d8	*17647-74-4*									*15-110*		
1,4-Dioxane-d8 (IS)	17647-74-4			ug/kg								

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.

Semivolatile Sample Data

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-04	**Date Collected**	: 12/13/24 12:43
Client ID	: MW-10S	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 12:51
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F512172457	**Analyst**	: GRS
Sample Amount	: 250 ml	**Instrument ID**	: PAH5
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	0.150	0.0339	U

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-06	**Date Collected**	: 12/13/24 13:30
Client ID	: EB_12132024	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 13:20
Sample Matrix	: Equipment Blank	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F512172458	**Analyst**	: GRS
Sample Amount	: 270 ml	**Instrument ID**	: PAH5
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	0.139	0.0314	U

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2009460-1	**Date Collected**	: NA
Client ID	: WG2009460-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/18/24 01:07
Sample Matrix	: WATER	**Date Extracted**	: 12/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F512172432	**Analyst**	: GRS
Sample Amount	: 250 ml	**Instrument ID**	: PAH5
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	0.150	0.0339	U

Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\
Data File : F512172457.D
Acq On : 18 Dec 2024 12:51 pm
Operator : PAH5:GRS
Sample : L2473538-04,32,,
Misc : WG2010208,WG2009460,ICAL21746
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 18 14:18:48 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Dec 18 11:15:14 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-Dioxane-d8 (IS)	4.367	64	1518	500.000	ng/mL	0.02
3) 1,4-Dichlorobenzene-d4	7.768	152	15269	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.367	64	1518	193.578	ng/mL	0.02
Spiked Amount 500.000	Range 15 - 115		Recovery = 38.72%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.	d	

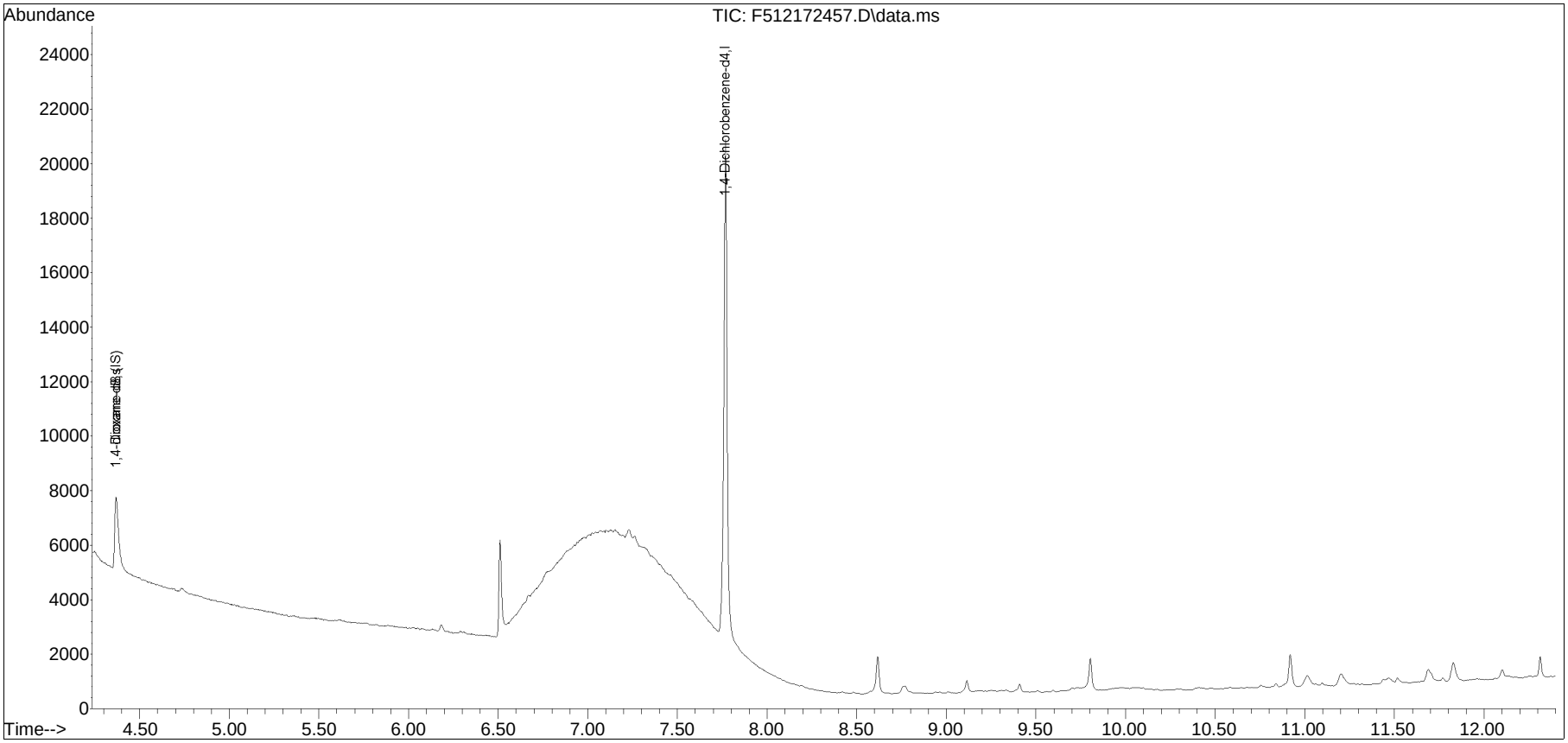
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\
Data File : F512172457.D
Acq On : 18 Dec 2024 12:51 pm
Operator : PAH5:GRS
Sample : L2473538-04,32,,
Misc : WG2010208,WG2009460,ICAL21746
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 18 14:18:48 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Dec 18 11:15:14 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: S:\Organics-NEW\DATA\PAH5\2Q	Method	: 14DIOX1202PAH5.M
Data File	: F512172457.D	Operator	: PAH5:GRS
Date Inj'd	: 12/18/2024 12:51 pm	Instrument	: PAH 5
Sample	: L2473538-04,32,,	Quant Date	: 12/18/2024 2:18 pm

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

Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\
Data File : F512172458.D
Acq On : 18 Dec 2024 1:20 pm
Operator : PAH5:GRS
Sample : L2473538-06,32,,
Misc : WG2010208,WG2009460,ICAL21746
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Dec 18 14:18:50 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Dec 18 11:15:14 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-Dioxane-d8 (IS)	4.343	64	1410	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.763	152	14912	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.343	64	1410	184.110	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 36.82%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.		

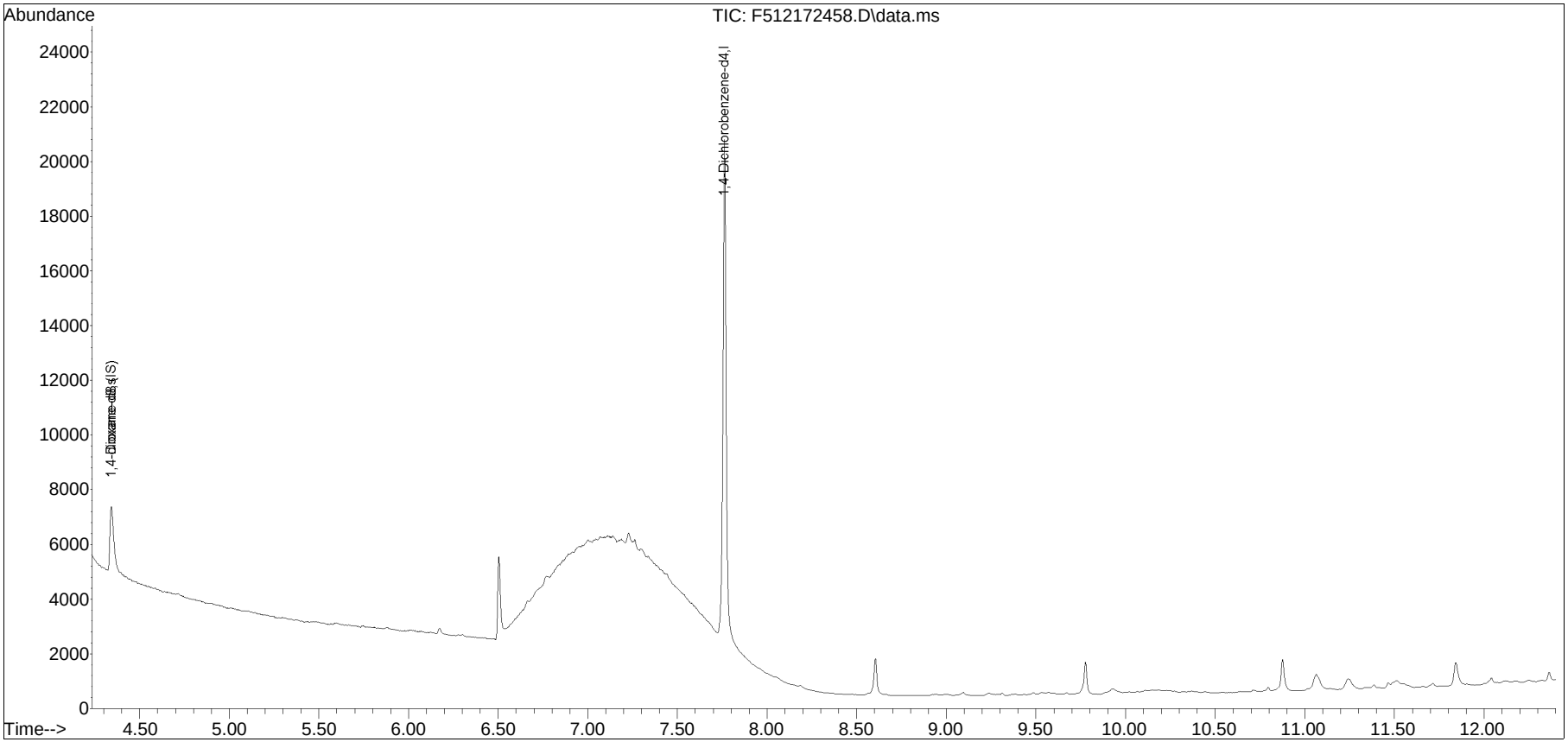
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\
Data File : F512172458.D
Acq On : 18 Dec 2024 1:20 pm
Operator : PAH5:GRS
Sample : L2473538-06,32,,
Misc : WG2010208,WG2009460,ICAL21746
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Dec 18 14:18:50 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Dec 18 11:15:14 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: S:\Organics-NEW\DATA\PAH5\2Q	Method	: 14DIOX1202PAH5.M
Data File	: F512172458.D	Operator	: PAH5:GRS
Date Inj'd	: 12/18/2024 1:20 pm	Instrument	: PAH 5
Sample	: L2473538-06,32,,	Quant Date	: 12/18/2024 2:18 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**	**: L2473538**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PAH5**	**Ical Ref**	**: ICAL21746**
Calibration dates	**: 12/02/24 14:45 12/02/24 17:44**		

Calibration Files
10 =F512022402.D 50 =F512022403.D 100 =F512022404.D 500 =F512022405.D 1000=F512022406.D
5000=F512022407.D 1e04=F512022408.D

	Compound	10	50	100	500	1000	5000	1e04	Avg	%RSD
1)	1,4-Dioxane-d8 (IS)	----------ISTD----------								
2)	1,4-dioxane	1.727	1.554	1.574	1.477	1.615	1.538	1.443	1.561	5.97
3) I	1,4-Dichlorobenzene-d4	----------ISTD----------								
4) s	1,4-dioxane-d8	0.260	0.254	0.255	0.266	0.249	0.251	0.262	0.257	2.45

Response Factor Report PAH 5

Method Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\
Method File : 14DIOX1202PAH5.M
Title : Semivolatiles by GC/MS
Last Update : Tue Dec 03 09:59:46 2024
Response Via : Initial Calibration

Calibration Files
10 =F512022402.D 50 =F512022403.D 100 =F512022404.D 500 =F512022405.D 1000=F512022406.D
5000=F512022407.D 1e04=F512022408.D

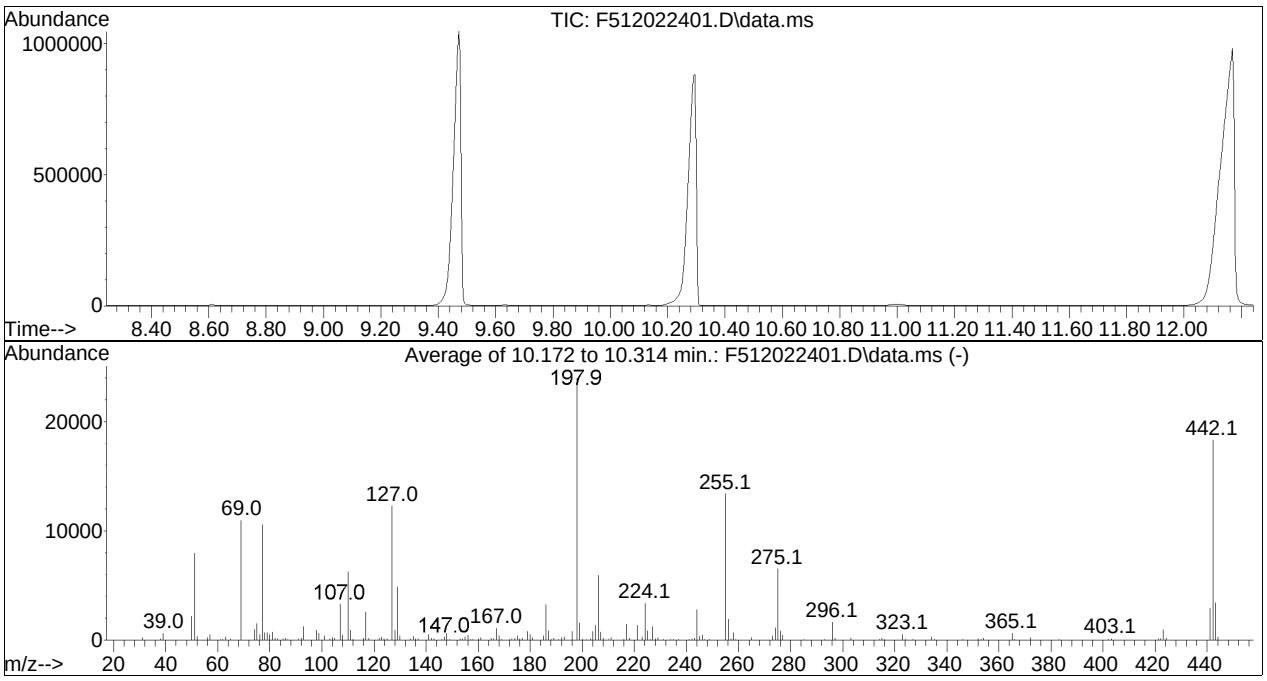
	Compound	10	50	100	500	1000	5000	1e04	Avg	%RSD
1)	1,4-Dioxane-d8 (IS)	ISTD								
2)	1,4-dioxane	1.727	1.554	1.574	1.477	1.615	1.538	1.443	1.561	5.97
3) I	1,4-Dichlorobenzene-d4	ISTD								
4) s	1,4-dioxane-d8	0.260	0.254	0.255	0.266	0.249	0.251	0.262	0.257	2.45

(#) = Out of Range

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\
Data File : F512022401.D
Acq On : 2 Dec 2024 1:55 pm
Operator : PAH5:CSP
Sample : T512022401
Misc : WG2004524,MSBV35
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\14DIOX1202PAH5.M
Title : Semivolatiles by GC/MS
Last Update : Tue Dec 03 09:59:46 2024



Spectrum Information: Average of 10.172 to 10.314 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	33.2	7949	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	51.5	12315	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	23933	PASS
199	198	5	9	6.7	1598	PASS
275	198	10	60	27.4	6562	PASS
365	198	1	100	2.7	647	PASS
441	442	0.01	24	16.1	2948	PASS
442	198	50	100	76.6	18328	PASS
443	442	15	24	18.6	3413	PASS

Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\
Data File : F512022402.D
Acq On : 2 Dec 2024 2:45 pm
Operator : PAH5:CSP
Sample : I512022401
Misc : WG2004524,MSBV28
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 03 10:00:10 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Dec 03 09:59:50 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-Dioxane-d8 (IS)	4.709	64	3127	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.949	152	12017	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.709	64	3127	506.671	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 101.33%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.806	88	108M2	11.062	ng/mL	

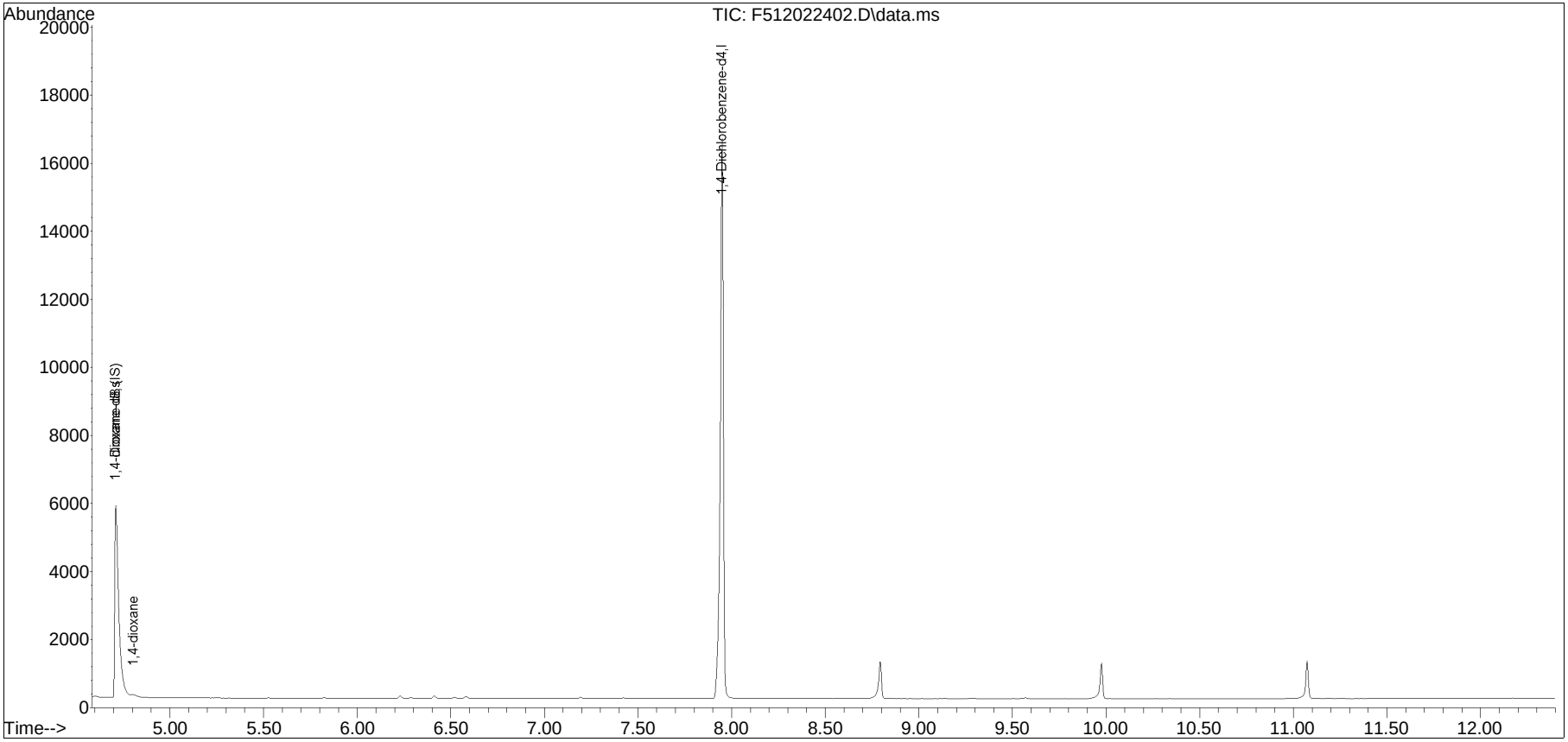
(#) = qualifier out of range (m) = manual integration (+) = signals summed

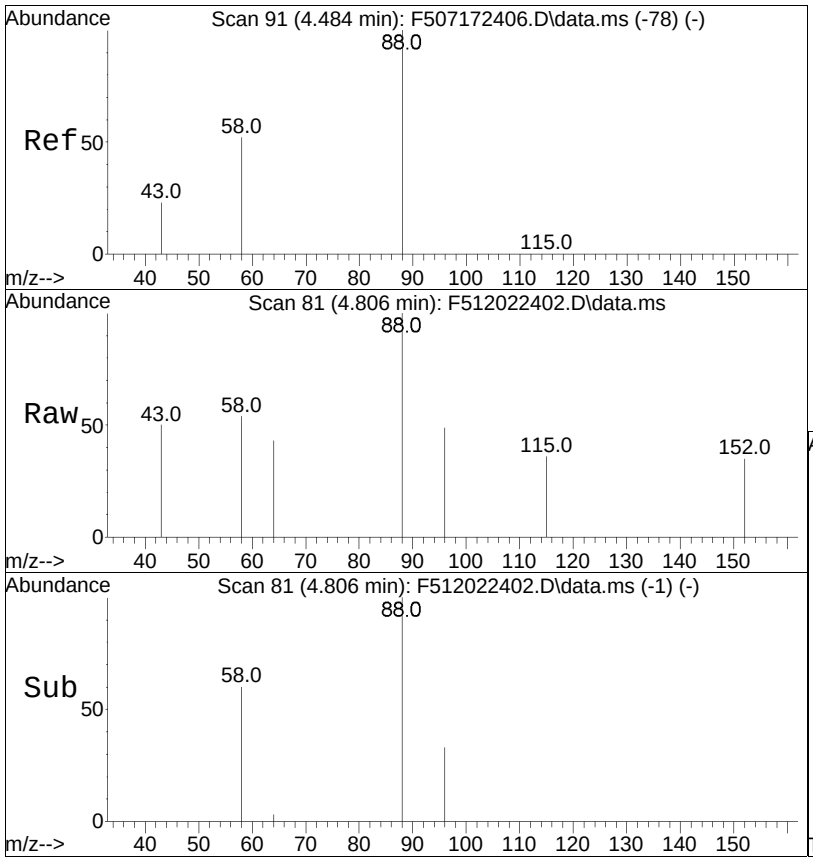
Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\
Data File : F512022402.D
Acq On : 2 Dec 2024 2:45 pm
Operator : PAH5:CSP
Sample : I512022401
Misc : WG2004524,MSBV28
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 03 10:00:10 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Dec 03 09:59:50 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

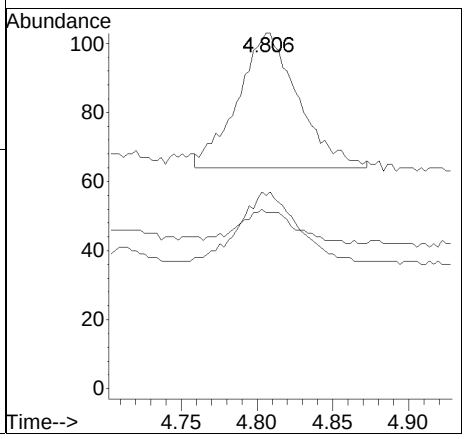




#2
1,4-dioxane
Concen: 11.06 ng/mL M2
RT: 4.806 min Scan# 81
Delta R.T. 0.044 min
Lab File: F512022402.D
Acq: 2 Dec 2024 2:45 pm

Tgt Ion: 88 Resp: 108

Ion	Ratio	Lower	Upper
88	100		
58	0.0	42.8	64.2#
43	0.0	18.6	28.0#

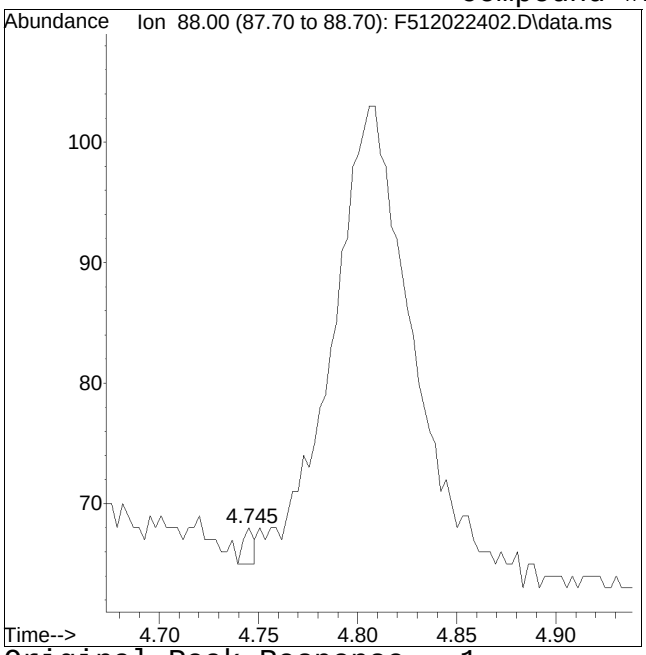


Manual Integration/Negative Proof Report

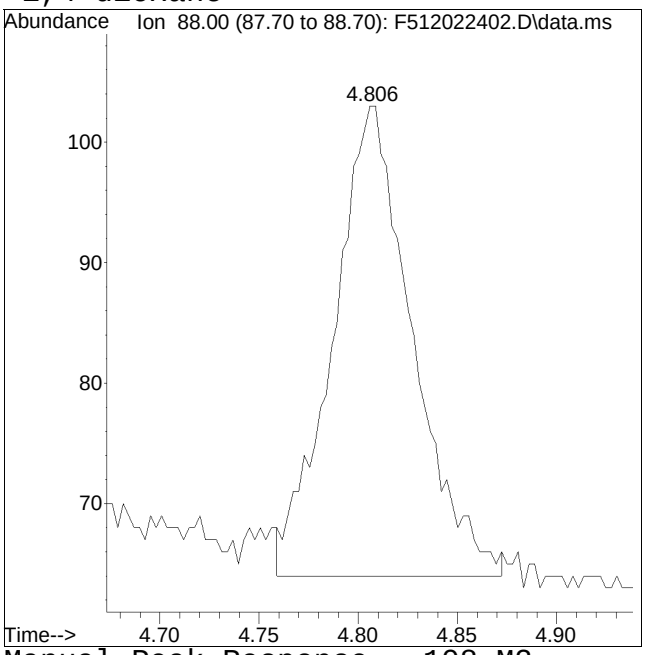
Data Path : S:\Organics-NEW\DATA\PAH5\2Q
Data File : F512022402.D
Date Inj'd : 12/2/2024 2:45 pm
Sample : I512022401

Method : 14DIOX1202PAH5.M
Operator : PAH5:CSP
Instrument : PAH 5
Quant Date : 12/3/2024 10:00 am

Compound #2: 1,4-dioxane



Original Peak Response = 1



Manual Peak Response = 108 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\
Data File : F512022403.D
Acq On : 2 Dec 2024 3:15 pm
Operator : PAH5:CSP
Sample : I512022402
Misc : WG2004524,MSBV29
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 03 10:00:13 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Dec 03 09:59:50 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-Dioxane-d8 (IS)	4.717	64	3030	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.949	152	11927	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.717	64	3030	494.659	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 98.93%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.795	88	471	49.787	ng/mL	98

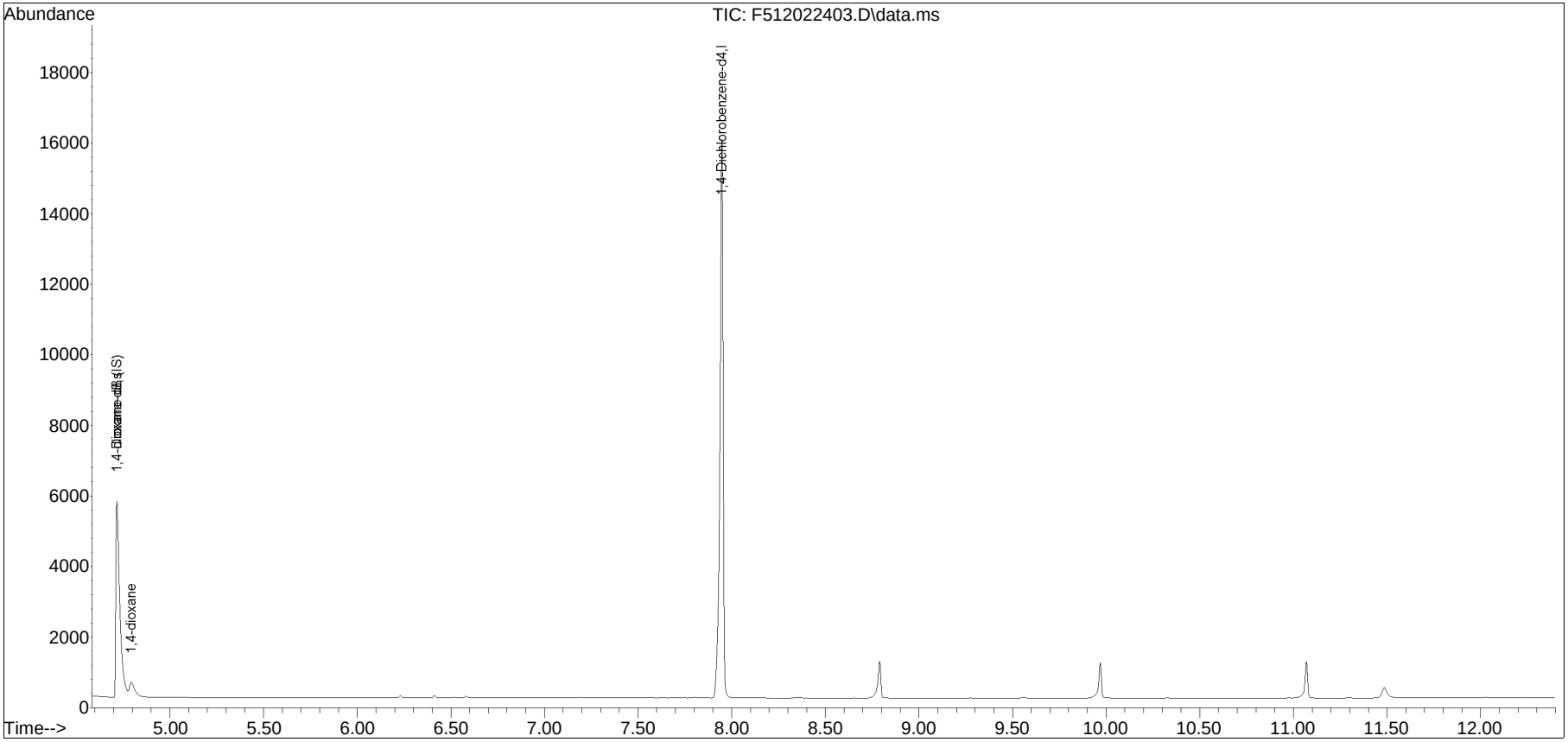
(#) = qualifier out of range (m) = manual integration (+) = signals summed

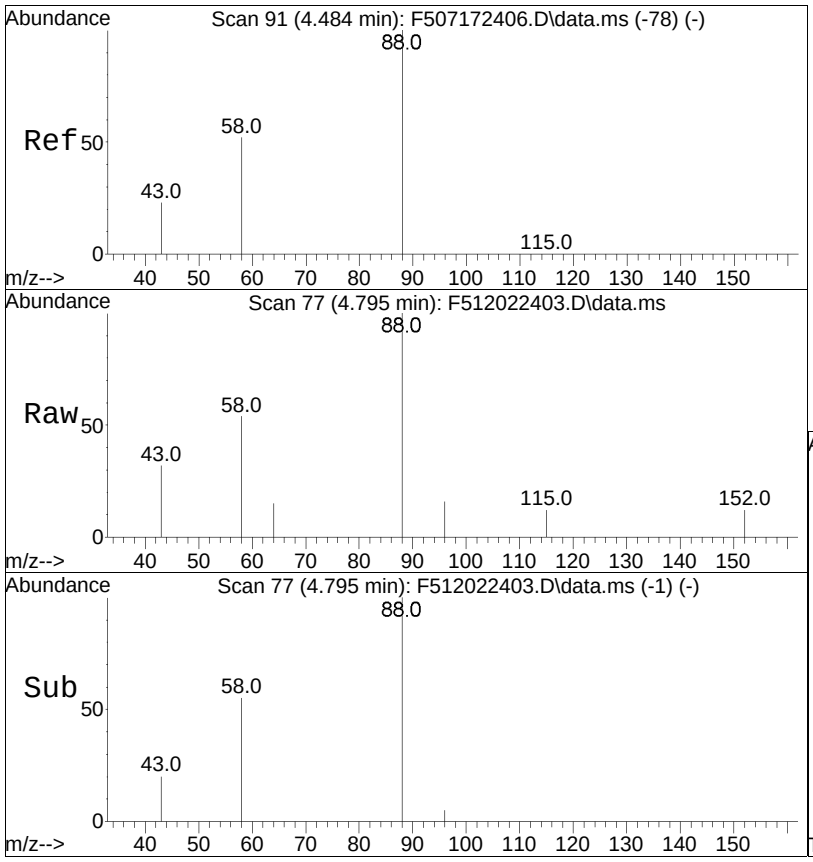
Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\
Data File : F512022403.D
Acq On : 2 Dec 2024 3:15 pm
Operator : PAH5:CSP
Sample : I512022402
Misc : WG2004524,MSBV29
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 03 10:00:13 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Dec 03 09:59:50 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

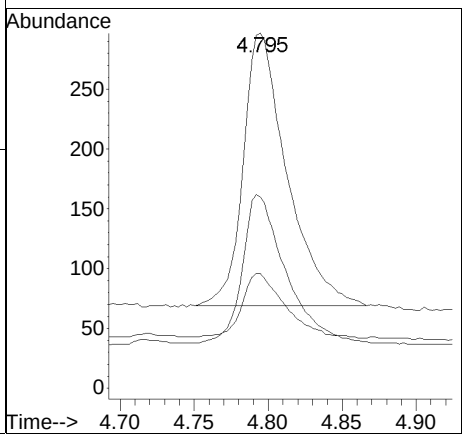




#2
1,4-dioxane
Concen: 49.79 ng/mL
RT: 4.795 min Scan# 77
Delta R.T. 0.033 min
Lab File: F512022403.D
Acq: 2 Dec 2024 3:15 pm

Tgt Ion: 88 Resp: 471

Ion	Ratio	Lower	Upper
88	100		
58	53.3	42.8	64.2
43	21.0	18.6	28.0



Manual Integration/Negative Proof Report

Data Path	: S:\Organics-NEW\DATA\PAH5\2	QMethod	: 14DIOX1202PAH5.M
Data File	: F512022403.D	Operator	: PAH5:CSP
Date Inj'd	: 12/2/2024 3:15 pm	Instrument	: PAH 5
Sample	: I512022402	Quant Date	: 12/3/2024 10:00 am

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

Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\
Data File : F512022404.D
Acq On : 2 Dec 2024 3:46 pm
Operator : PAH5:CSP
Sample : I512022403
Misc : WG2004524,MSBV30
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 03 10:00:15 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Dec 03 09:59:50 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-Dioxane-d8 (IS)	4.706	64	2967	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.949	152	11637	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.706	64	2967	496.445	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 99.29%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.775	88	934	100.825	ng/mL	99

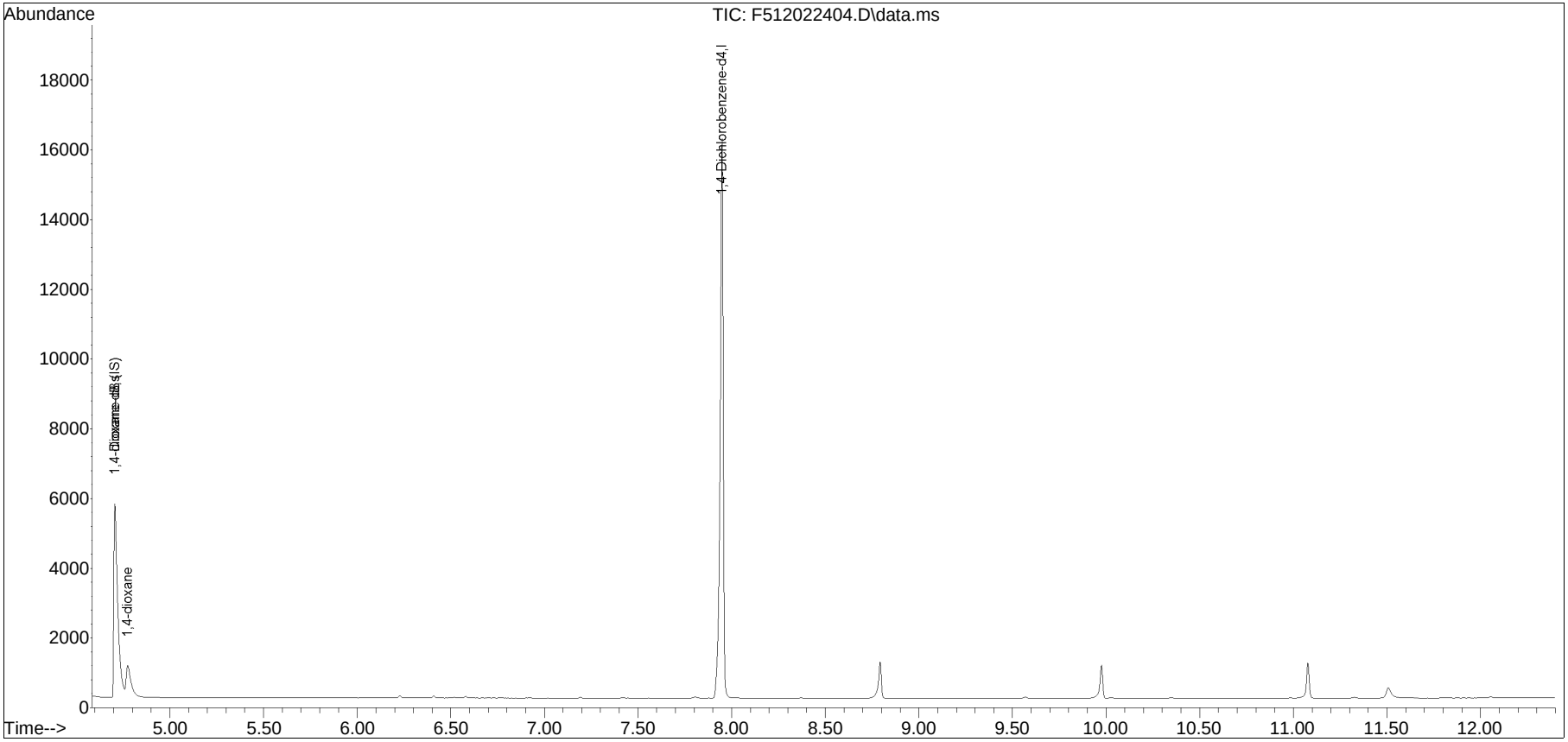
(#) = qualifier out of range (m) = manual integration (+) = signals summed

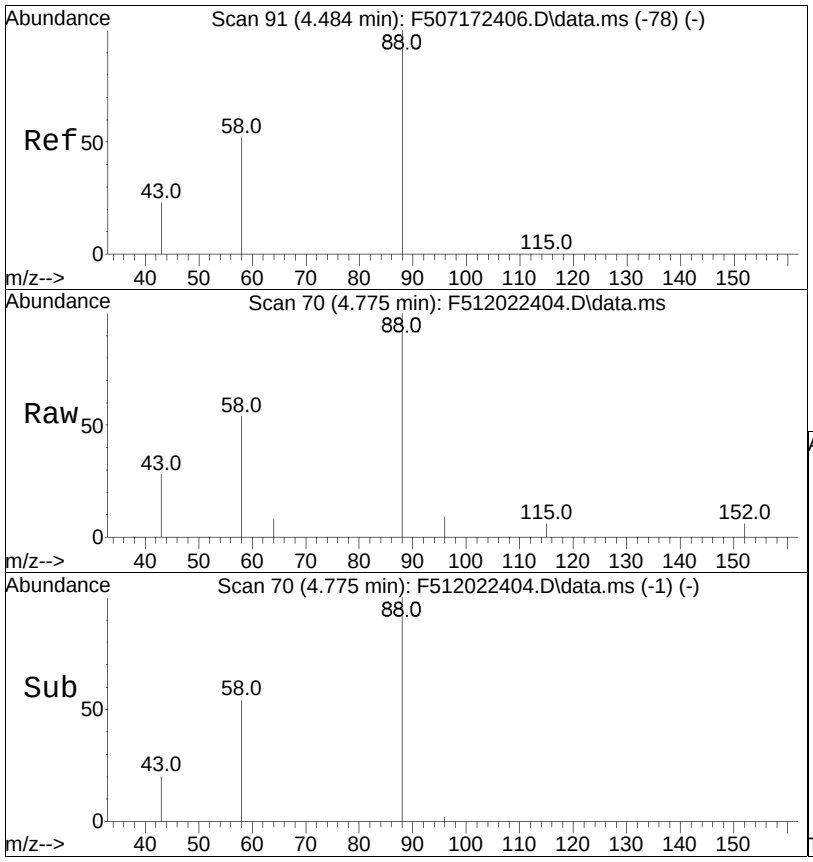
Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\
Data File : F512022404.D
Acq On : 2 Dec 2024 3:46 pm
Operator : PAH5:CSP
Sample : I512022403
Misc : WG2004524,MSBV30
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 03 10:00:15 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Dec 03 09:59:50 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

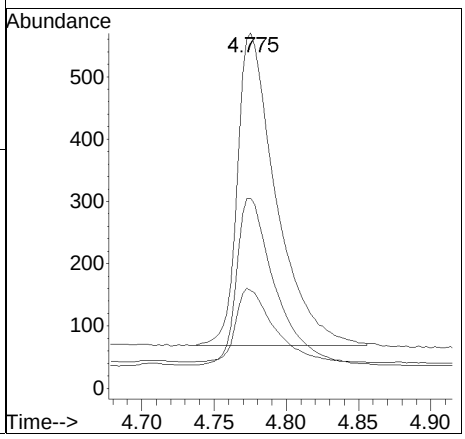




#2
1,4-dioxane
Concen: 100.83 ng/mL
RT: 4.775 min Scan# 70
Delta R.T. 0.014 min
Lab File: F512022404.D
Acq: 2 Dec 2024 3:46 pm

Tgt Ion: 88 Resp: 934

Ion	Ratio	Lower	Upper
88	100		
58	53.2	42.8	64.2
43	22.2	18.6	28.0



Manual Integration/Negative Proof Report

Data Path	: S:\Organics-NEW\DATA\PAH5\2	QMethod	: 14DIOX1202PAH5.M
Data File	: F512022404.D	Operator	: PAH5:CSP
Date Inj'd	: 12/2/2024 3:46 pm	Instrument	: PAH 5
Sample	: I512022403	Quant Date	: 12/3/2024 10:00 am

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

Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\
Data File : F512022405.D
Acq On : 2 Dec 2024 4:16 pm
Operator : PAH5:CSP
Sample : I512022404
Misc : WG2004524,MSBV31
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 03 10:00:17 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Dec 03 09:59:50 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-Dioxane-d8 (IS)	4.717	64	3189	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.949	152	11971	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.717	64	3189	518.703	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 103.74%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.770	88	4709	472.949	ng/mL	100

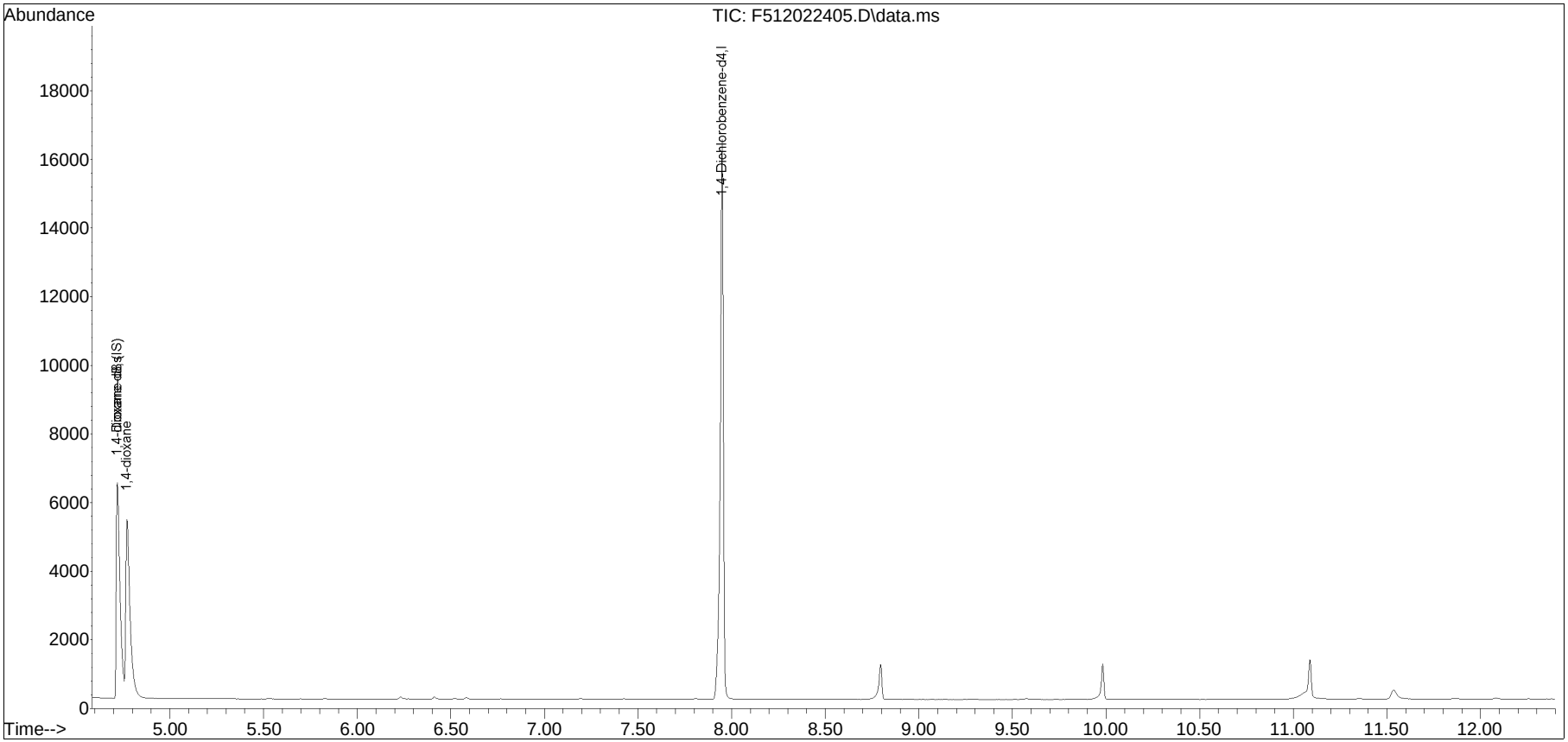
(#) = qualifier out of range (m) = manual integration (+) = signals summed

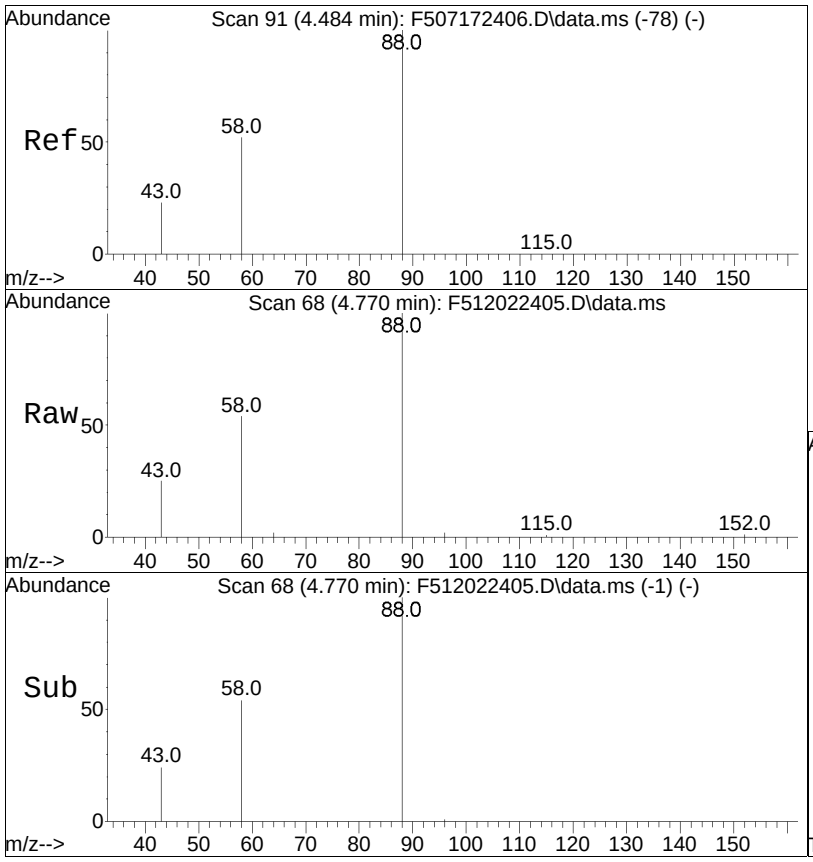
Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\
Data File : F512022405.D
Acq On : 2 Dec 2024 4:16 pm
Operator : PAH5:CSP
Sample : I512022404
Misc : WG2004524,MSBV31
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 03 10:00:17 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Dec 03 09:59:50 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

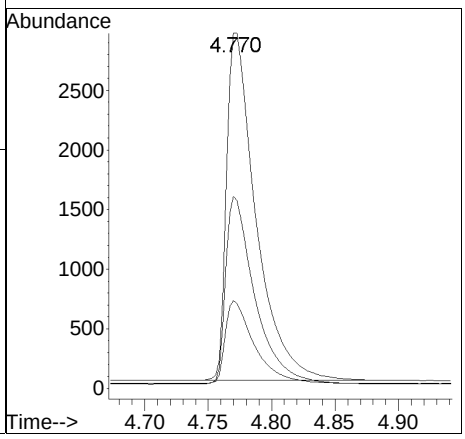




#2
1,4-dioxane
Concen: 472.95 ng/mL
RT: 4.770 min Scan# 68
Delta R.T. 0.008 min
Lab File: F512022405.D
Acq: 2 Dec 2024 4:16 pm

Tgt Ion: 88 Resp: 4709

Ion	Ratio	Lower	Upper
88	100		
58	53.3	42.8	64.2
43	23.2	18.6	28.0



Manual Integration/Negative Proof Report

Data Path	: S:\Organics-NEW\DATA\PAH5\2	QMethod	: 14DIOX1202PAH5.M
Data File	: F512022405.D	Operator	: PAH5:CSP
Date Inj'd	: 12/2/2024 4:16 pm	Instrument	: PAH 5
Sample	: I512022404	Quant Date	: 12/3/2024 10:00 am

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

Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\
Data File : F512022406.D
Acq On : 2 Dec 2024 4:45 pm
Operator : PAH5:CSP
Sample : I512022405
Misc : WG2004524,MSBV45
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 03 10:00:19 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Dec 03 09:59:50 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-Dioxane-d8 (IS)	4.715	64	3006	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.947	152	12065	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.715	64	3006	485.128	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 97.03%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.762	88	9708	1034.382	ng/mL	100

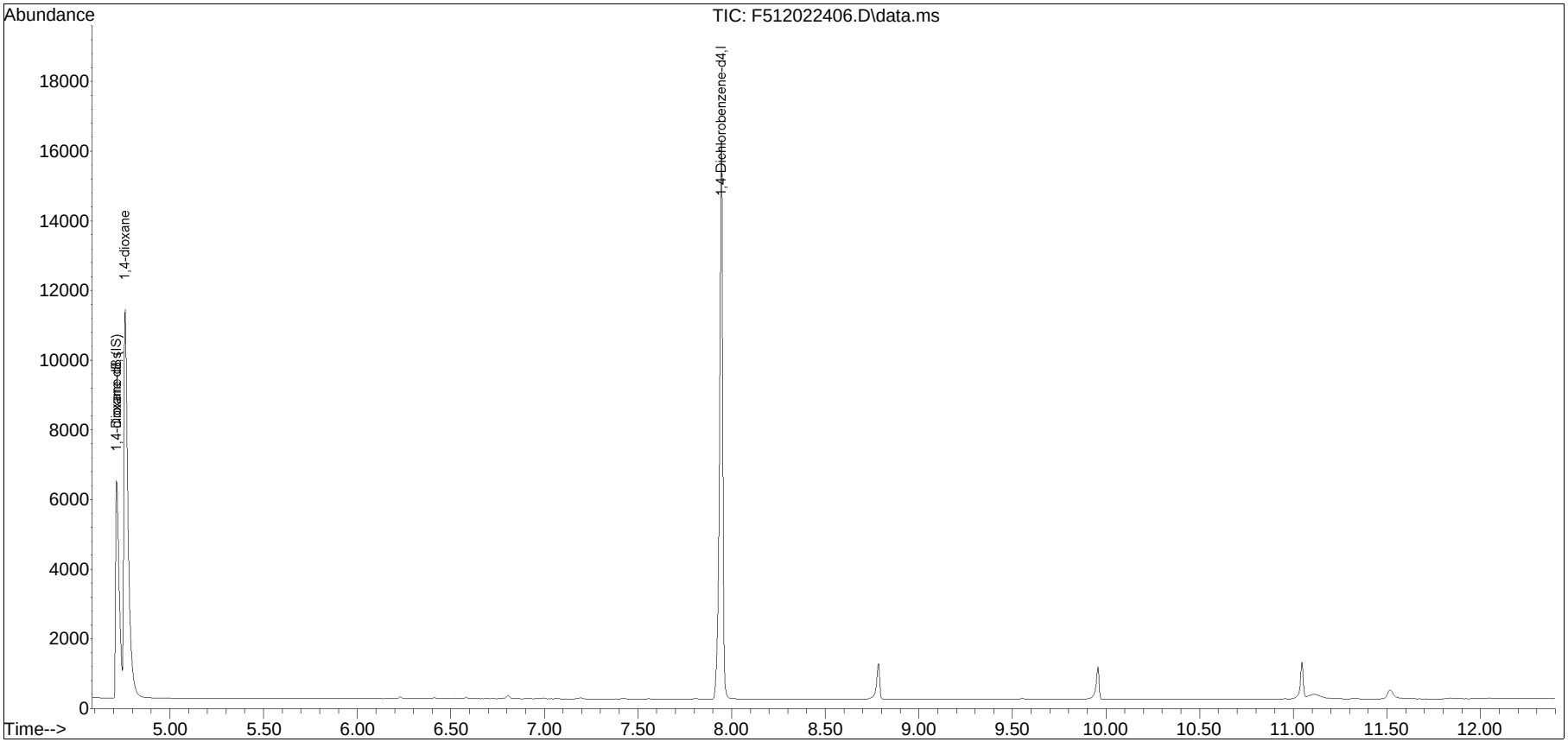
(#) = qualifier out of range (m) = manual integration (+) = signals summed

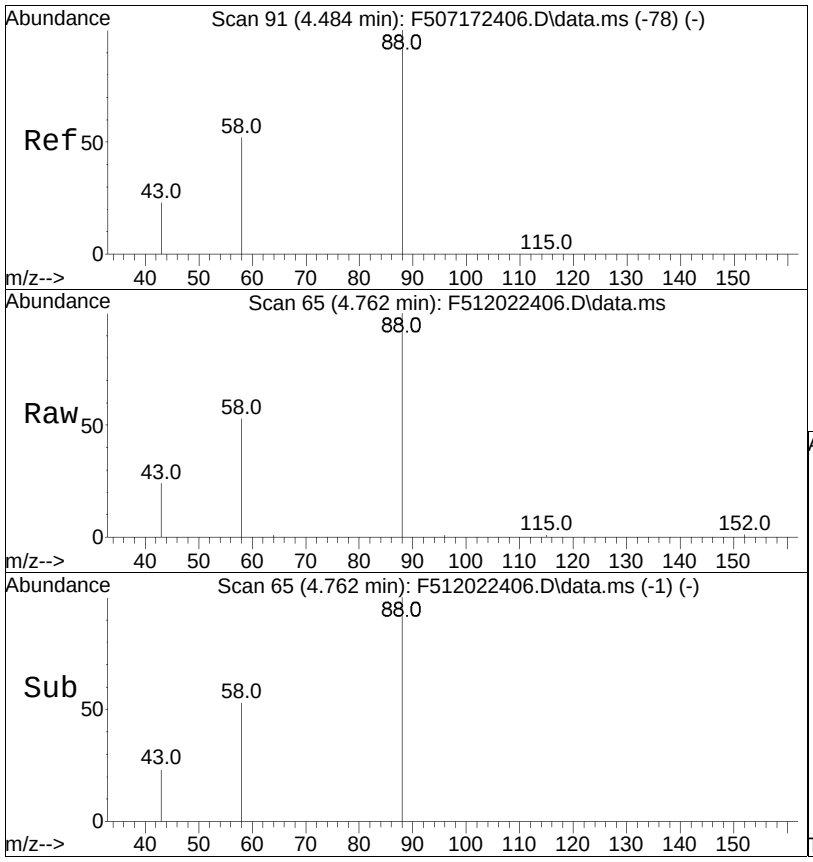
Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\
Data File : F512022406.D
Acq On : 2 Dec 2024 4:45 pm
Operator : PAH5:CSP
Sample : I512022405
Misc : WG2004524,MSBV45
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 03 10:00:19 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Dec 03 09:59:50 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

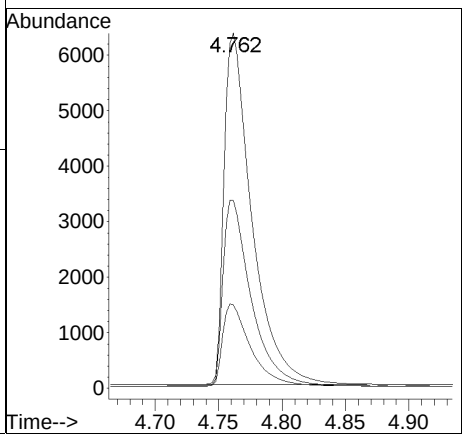




#2
1,4-dioxane
Concen: 1034.38 ng/mL
RT: 4.762 min Scan# 65
Delta R.T. 0.000 min
Lab File: F512022406.D
Acq: 2 Dec 2024 4:45 pm

Tgt Ion: 88 Resp: 9708

Ion	Ratio	Lower	Upper
88	100		
58	53.5	42.8	64.2
43	23.3	18.6	28.0



Manual Integration/Negative Proof Report

Data Path	: S:\Organics-NEW\DATA\PAH5\2	QMethod	: 14DIOX1202PAH5.M
Data File	: F512022406.D	Operator	: PAH5:CSP
Date Inj'd	: 12/2/2024 4:45 pm	Instrument	: PAH 5
Sample	: I512022405	Quant Date	: 12/3/2024 10:00 am

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

Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\
Data File : F512022407.D
Acq On : 2 Dec 2024 5:15 pm
Operator : PAH5:CSP
Sample : I512022406
Misc : WG2004524,MSBV32
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 03 10:00:21 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Dec 03 09:59:50 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-Dioxane-d8 (IS)	4.712	64	3000	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.946	152	11965	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.712	64	3000	488.206	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 97.64%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.750	88	46126	4924.531	ng/mL	100

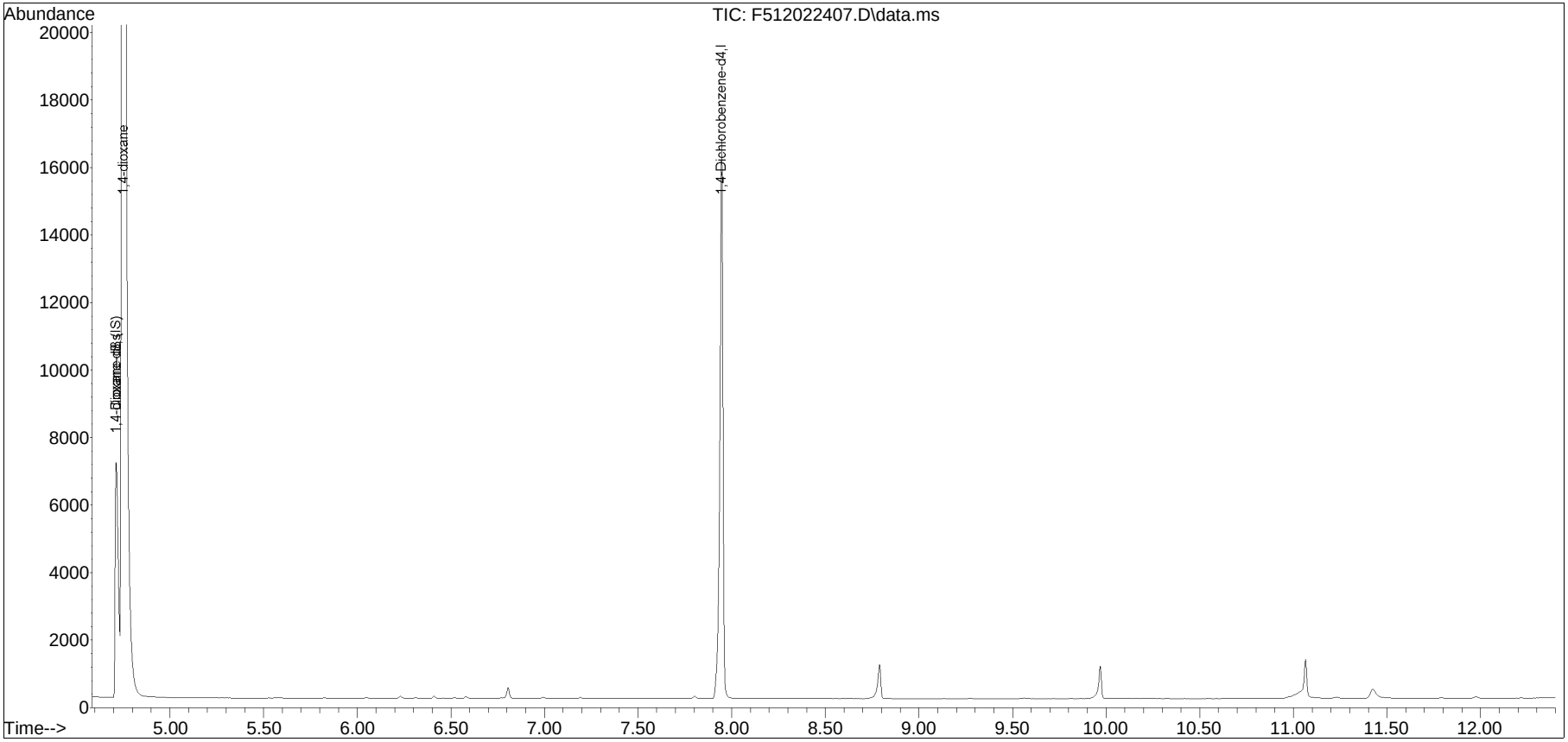
(#) = qualifier out of range (m) = manual integration (+) = signals summed

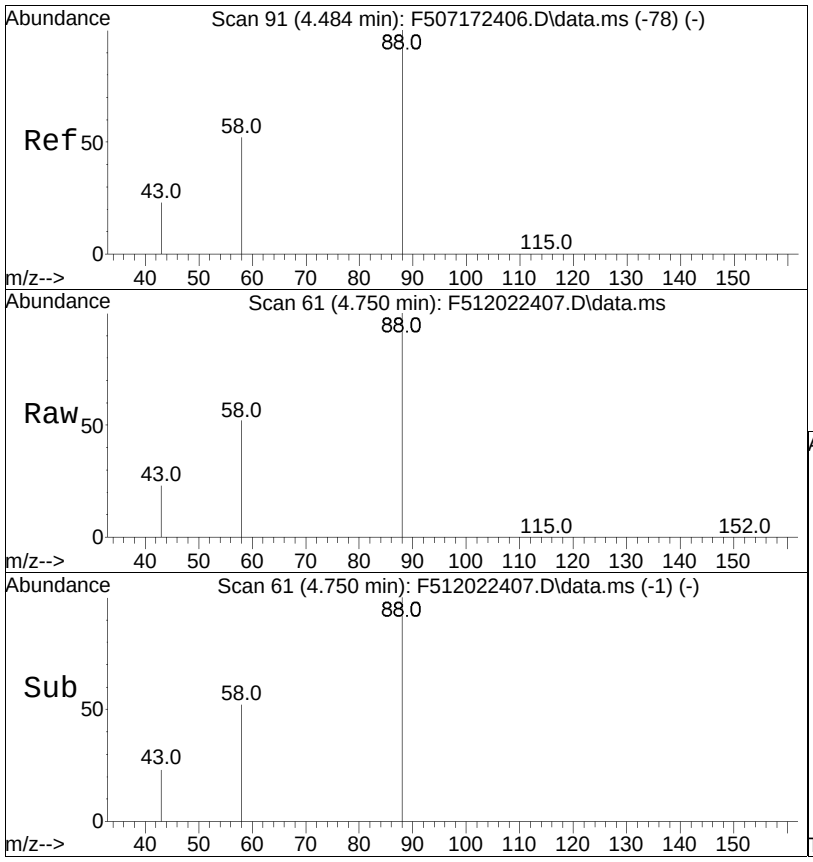
Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\
Data File : F512022407.D
Acq On : 2 Dec 2024 5:15 pm
Operator : PAH5:CSP
Sample : I512022406
Misc : WG2004524,MSBV32
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 03 10:00:21 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Dec 03 09:59:50 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

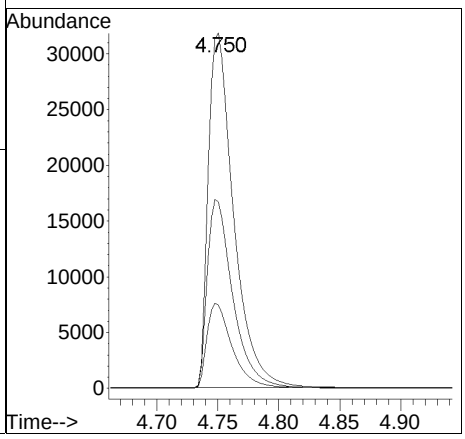




#2
1,4-dioxane
Concen: 4924.53 ng/mL
RT: 4.750 min Scan# 61
Delta R.T. -0.011 min
Lab File: F512022407.D
Acq: 2 Dec 2024 5:15 pm

Tgt Ion: 88 Resp: 46126

Ion	Ratio	Lower	Upper
88	100		
58	53.3	42.8	64.2
43	23.7	18.6	28.0



Manual Integration/Negative Proof Report

Data Path	: S:\Organics-NEW\DATA\PAH5\2	QMethod	: 14DIOX1202PAH5.M
Data File	: F512022407.D	Operator	: PAH5:CSP
Date Inj'd	: 12/2/2024 5:15 pm	Instrument	: PAH 5
Sample	: I512022406	Quant Date	: 12/3/2024 10:00 am

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

Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\
Data File : F512022408.D
Acq On : 2 Dec 2024 5:44 pm
Operator : PAH5:CSP
Sample : I512022407
Misc : WG2004524,MSBV27
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 03 10:00:23 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Dec 03 09:59:50 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-Dioxane-d8 (IS)	4.668	64	3068	500.000	ng/mL	-0.05
3) 1,4-Dichlorobenzene-d4	7.944	152	11709	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.668	64	3068	510.188	ng/mL	-0.05
Spiked Amount 500.000	Range 15 - 115		Recovery = 102.04%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.704	88	88567	9246.065	ng/mL	99

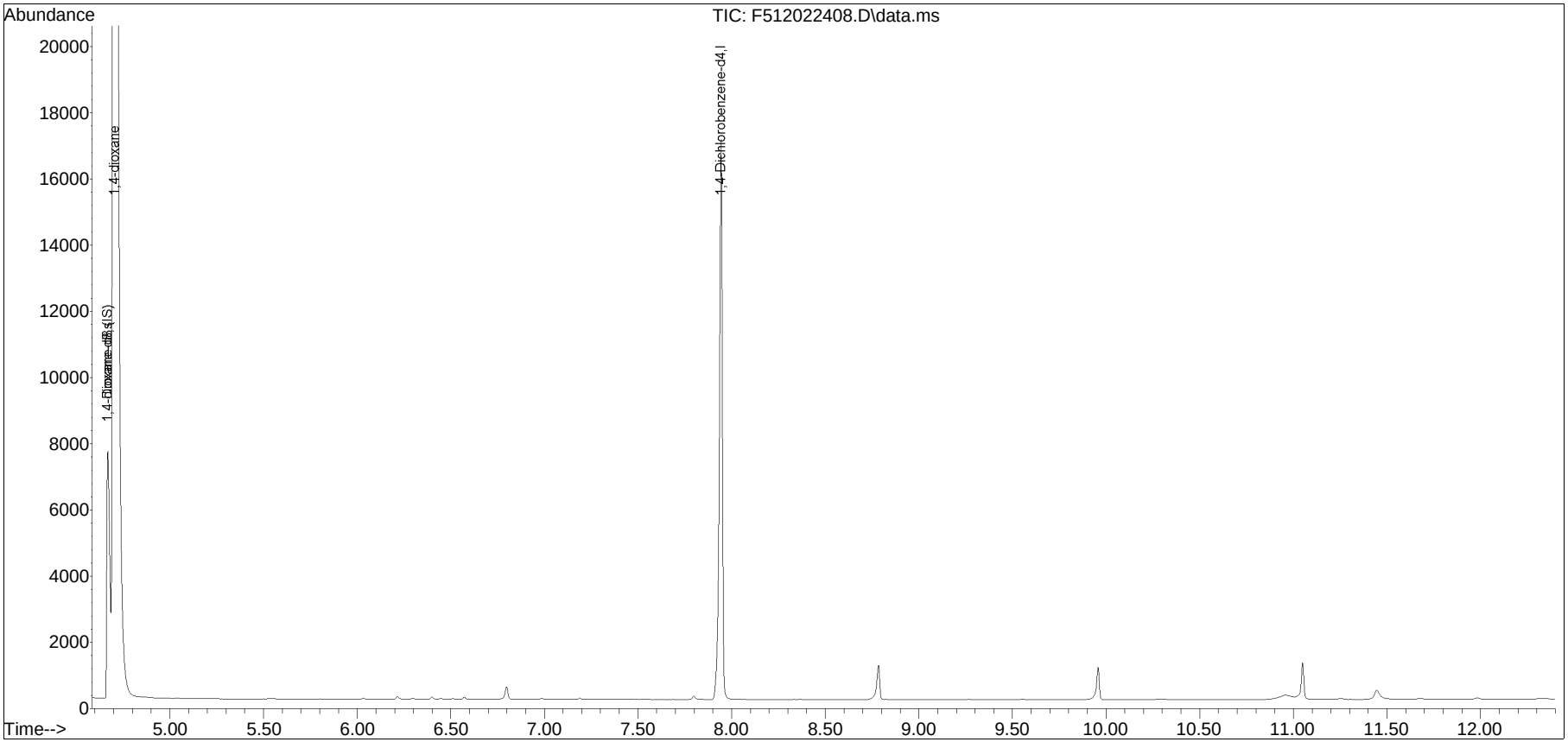
(#) = qualifier out of range (m) = manual integration (+) = signals summed

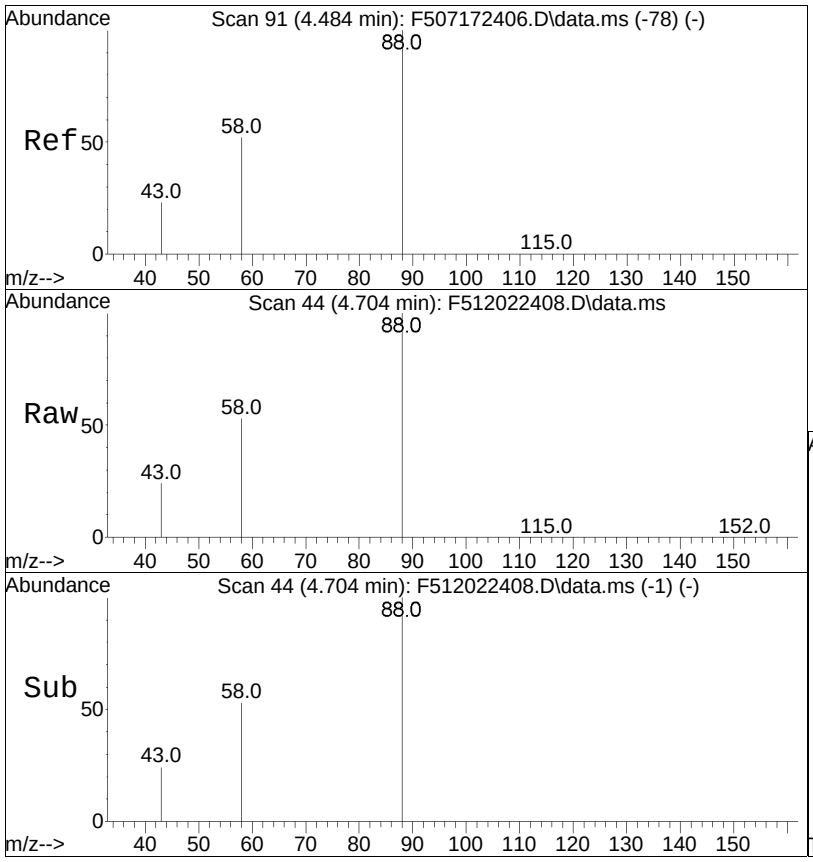
Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\
Data File : F512022408.D
Acq On : 2 Dec 2024 5:44 pm
Operator : PAH5:CSP
Sample : I512022407
Misc : WG2004524,MSBV27
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 03 10:00:23 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Dec 03 09:59:50 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

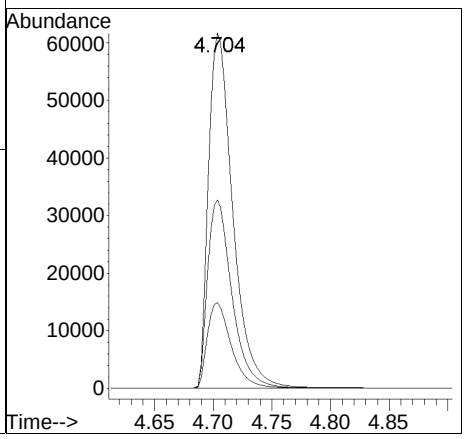




#2
1,4-dioxane
Concen: 9246.07 ng/mL
RT: 4.704 min Scan# 44
Delta R.T. -0.058 min
Lab File: F512022408.D
Acq: 2 Dec 2024 5:44 pm

Tgt Ion: 88 Resp: 88567

Ion	Ratio	Lower	Upper
88	100		
58	53.2	42.8	64.2
43	23.8	18.6	28.0



Manual Integration/Negative Proof Report

Data Path	: S:\Organics-NEW\DATA\PAH5\2	QMethod	: 14DIOX1202PAH5.M
Data File	: F512022408.D	Operator	: PAH5:CSP
Date Inj'd	: 12/2/2024 5:44 pm	Instrument	: PAH 5
Sample	: I512022407	Quant Date	: 12/3/2024 10:00 am

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

Evaluate Continuing Calibration Report

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\
Data File : F512022409.D
Acq On : 2 Dec 2024 6:14 pm
Operator : PAH5:CSP
Sample : CQ512022401
Misc : WG2004524,MSBV37
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 03 10:00:32 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Dec 03 09:59:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	1,4-Dioxane-d8 (IS)	1.000	1.000	0.0	111	-0.01
2	1,4-dioxane	1.561	1.410	9.7	97	-0.01
3 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
4 s	1,4-dioxane-d8	0.257	0.272	-5.8	107	-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 : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\
Data File : F512022409.D
Acq On : 2 Dec 2024 6:14 pm
Operator : PAH5:CSP
Sample : CQ512022401
Misc : WG2004524,MSBV37
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 03 10:00:32 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Dec 03 09:59:50 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-Dioxane-d8 (IS)	4.701	64	3351	500.000	ng/mL	-0.01
3) 1,4-Dichlorobenzene-d4	7.941	152	12314	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.701	64	3351	529.871	ng/mL	-0.01
Spiked Amount 500.000	Range 15 - 115		Recovery = 105.97%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.748	88	9449	903.133	ng/mL	100

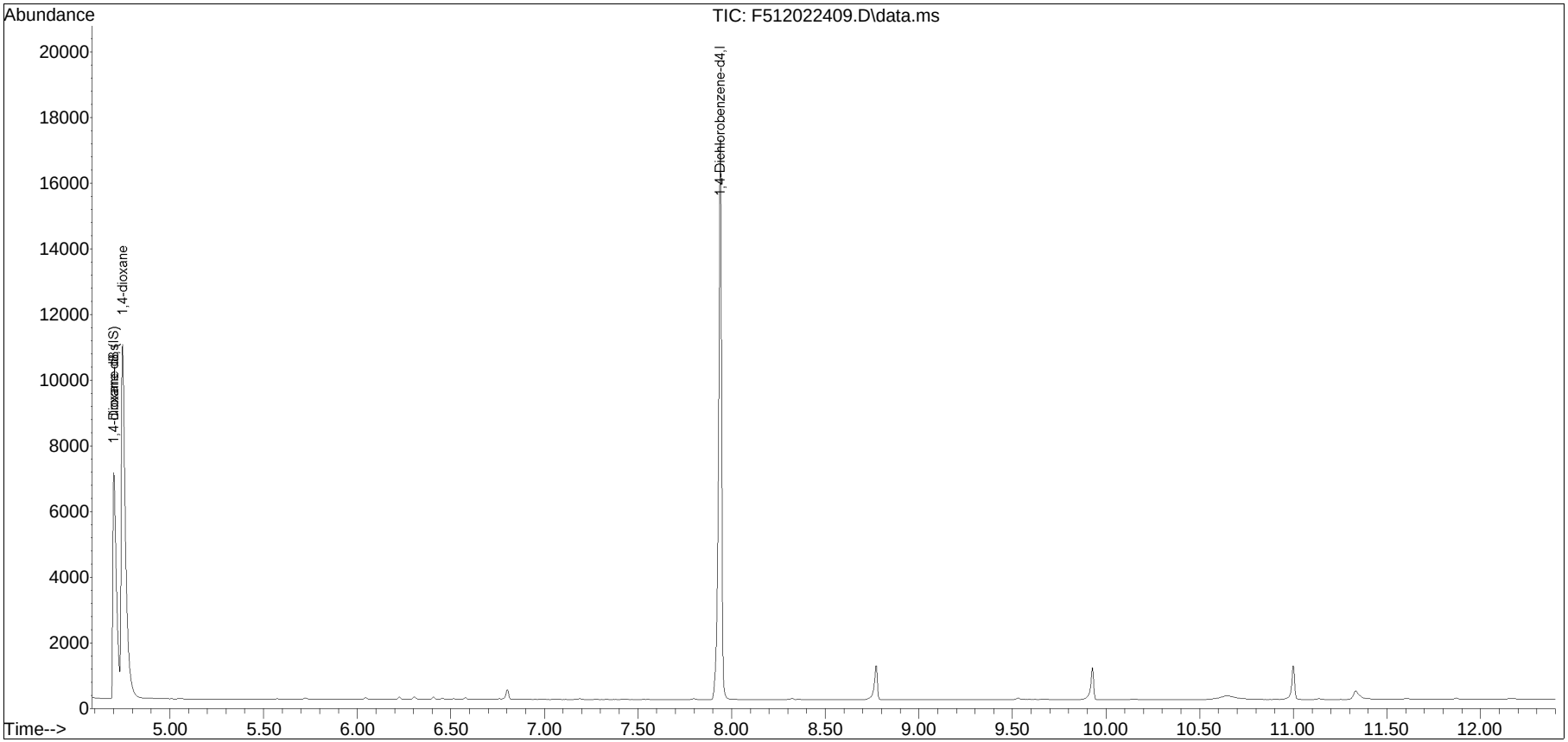
(#) = qualifier out of range (m) = manual integration (+) = signals summed

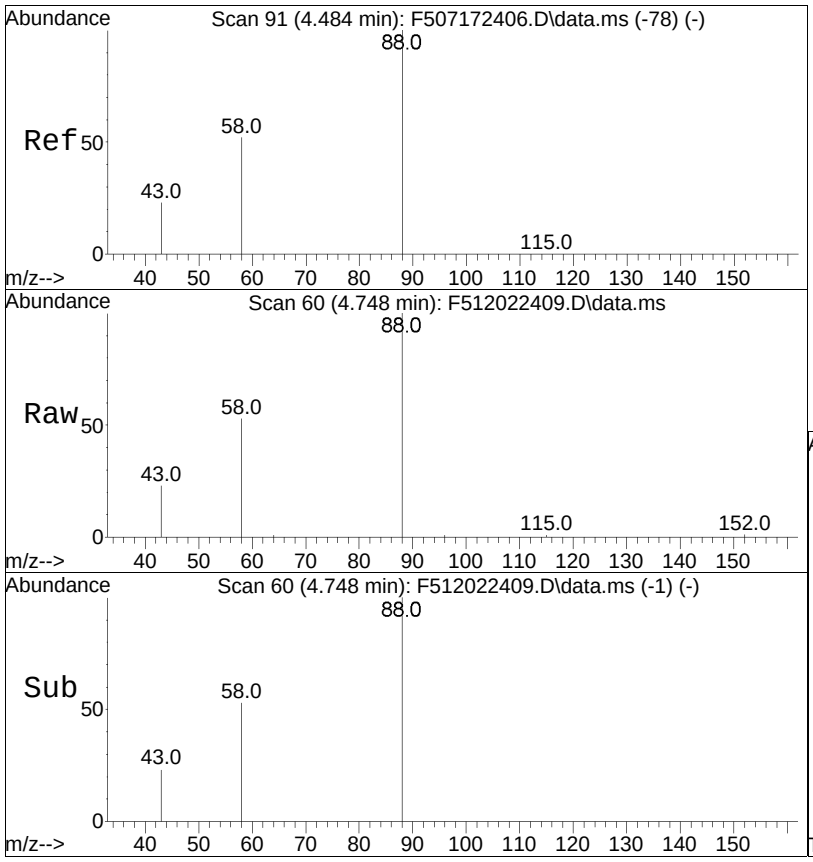
Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\
Data File : F512022409.D
Acq On : 2 Dec 2024 6:14 pm
Operator : PAH5:CSP
Sample : CQ512022401
Misc : WG2004524,MSBV37
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 03 10:00:32 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Dec 03 09:59:50 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

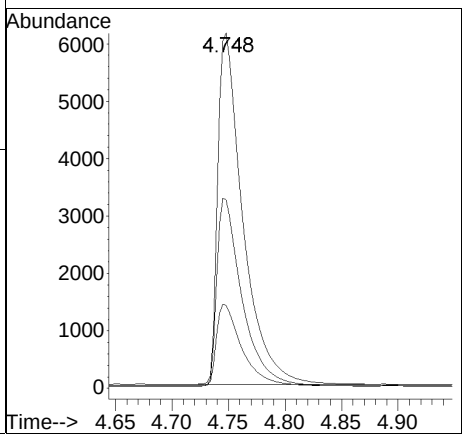




#2
1,4-dioxane
Concen: 903.13 ng/mL
RT: 4.748 min Scan# 60
Delta R.T. -0.014 min
Lab File: F512022409.D
Acq: 2 Dec 2024 6:14 pm

Tgt Ion: 88 Resp: 9449

Ion	Ratio	Lower	Upper
88	100		
58	53.6	42.8	64.2
43	23.2	18.6	28.0



Manual Integration/Negative Proof Report

Data Path	: S:\Organics-NEW\DATA\PAH5\2	QMethod	: 14DIOX1202PAH5.M
Data File	: F512022409.D	Operator	: PAH5:CSP
Date Inj'd	: 12/2/2024 6:14 pm	Instrument	: PAH 5
Sample	: CQ512022401	Quant Date	: 12/3/2024 10:00 am

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

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PAH5	**Calibration Date**	: 12/17/24 22:48		
Lab File ID	: F512172427	**Init. Calib. Date(s)**	: 12/02/24	12/02/24	
Sample No	: WG2010208-4	**Init. Calib. Times**	: 14:45	17:44	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dioxane-d8 (IS)	1	1	-	0	20	132	-.02
1,4-dioxane	1.561	1.616	-	-3.5	20	132	-.02
1,4-Dichlorobenzene-d4	1	1	-	0	20	142	0
1,4-dioxane-d8	0.257	0.231	-	10.1	20	127	-.02

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PAH5	**Calibration Date**	: 12/18/24 11:23		
Lab File ID	: F512172454	**Init. Calib. Date(s)**	: 12/02/24	12/02/24	
Sample No	: WG2010208-6	**Init. Calib. Times**	: 14:45	17:44	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dioxane-d8 (IS)	1	1	-	0	20	130	0
1,4-dioxane	1.561	1.599	-	-2.4	20	129	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	153	0
1,4-dioxane-d8	0.257	0.212	-	17.5	20	125	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\
Data File : F512172427.D
Acq On : 17 Dec 2024 10:48 pm
Operator : PAH5:GRS
Sample : WG2010208-4
Misc : WG2010208,,ICAL21746,MSBV45
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 18 11:09:54 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Dec 17 13:27:12 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	1,4-Dioxane-d8 (IS)	1.000	1.000	0.0	132	-0.02
2	1,4-dioxane	1.561	1.616	-3.5	132	-0.02
3 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	142	0.00
4 s	1,4-dioxane-d8	0.257	0.231	10.1	127	-0.02

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

Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\
Data File : F512172427.D
Acq On : 17 Dec 2024 10:48 pm
Operator : PAH5:GRS
Sample : WG2010208-4
Misc : WG2010208,,ICAL21746,MSBV45
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 18 11:09:54 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Dec 17 13:27:12 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-Dioxane-d8 (IS)	4.326	64	3958	500.000	ng/mL	-0.06
3) 1,4-Dichlorobenzene-d4	7.762	152	17130	500.000	ng/mL	-0.01
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.326	64	3958	449.897	ng/mL	-0.06
Spiked Amount 500.000	Range 15 - 115		Recovery = 89.98%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.373	88	12794	1035.311	ng/mL	96

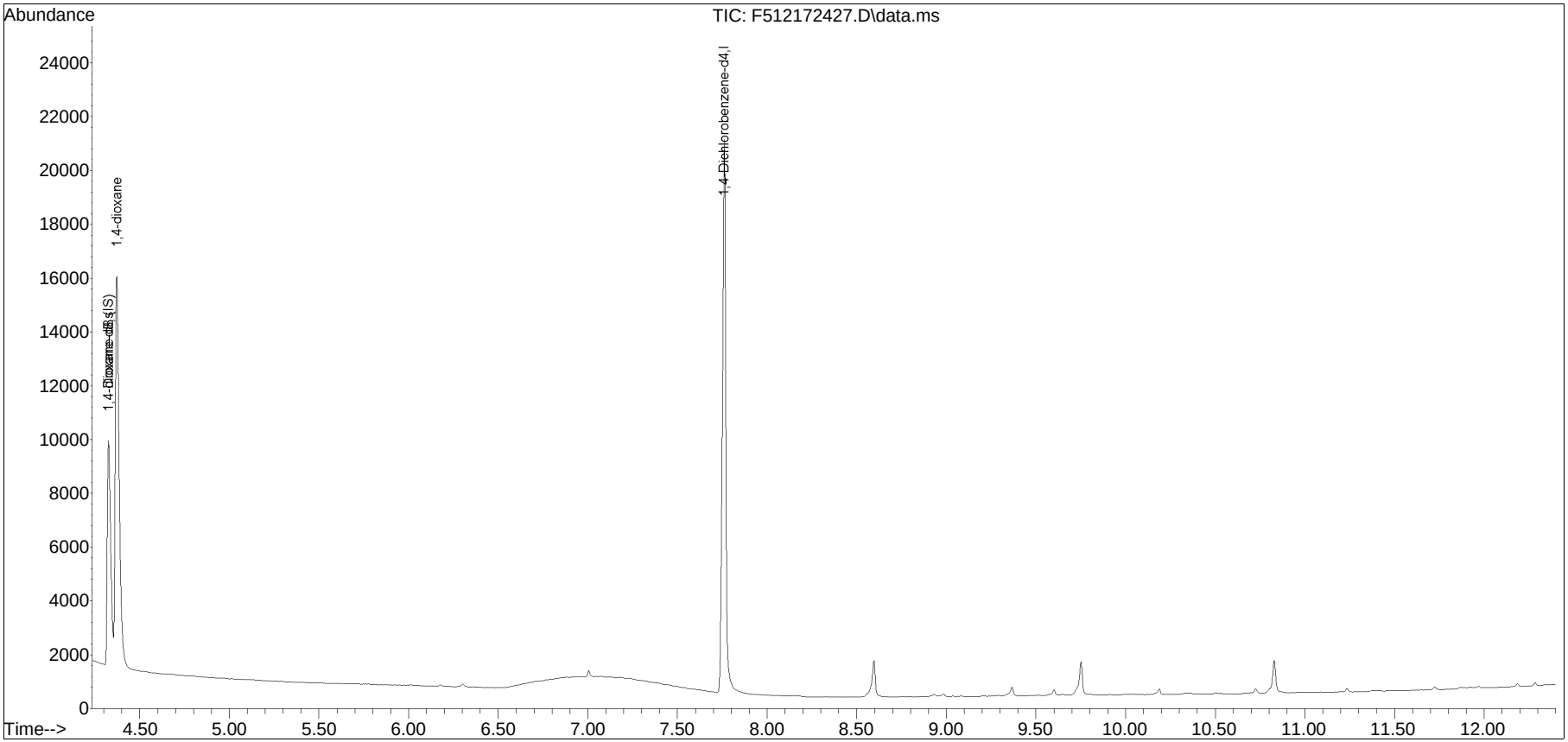
(#) = qualifier out of range (m) = manual integration (+) = signals summed

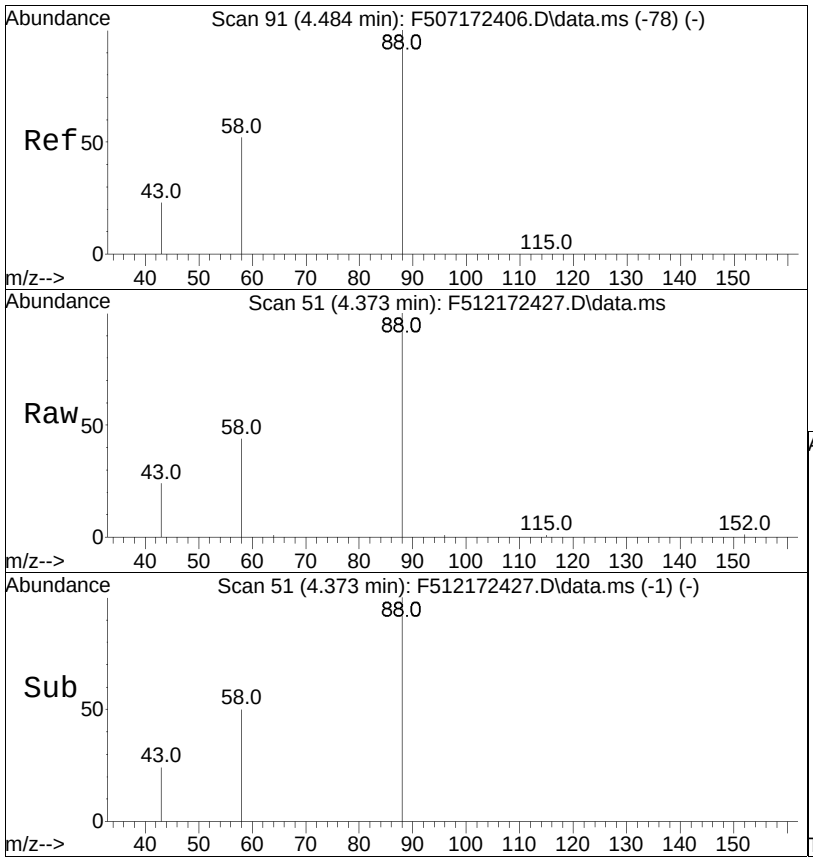
Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\
Data File : F512172427.D
Acq On : 17 Dec 2024 10:48 pm
Operator : PAH5:GRS
Sample : WG2010208-4
Misc : WG2010208,,ICAL21746,MSBV45
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 18 11:09:54 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Dec 17 13:27:12 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

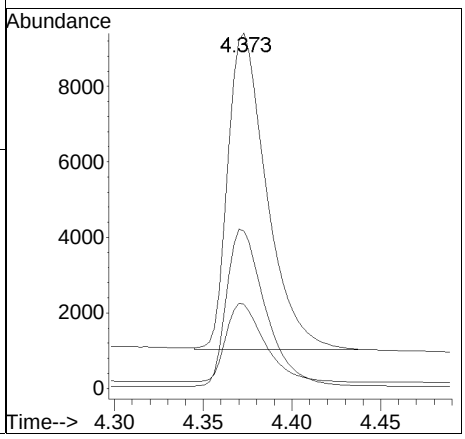




#2
1,4-dioxane
Concen: 1035.31 ng/mL
RT: 4.373 min Scan# 51
Delta R.T. -0.055 min
Lab File: F512172427.D
Acq: 17 Dec 2024 10:48 pm

Tgt Ion: 88 Resp: 12794

Ion	Ratio	Lower	Upper
88	100		
58	49.8	42.8	64.2
43	24.8	18.6	28.0



Manual Integration/Negative Proof Report

Data Path	: S:\Organics-NEW\DATA\PAH5\2	QMethod	: 14DIOX1202PAH5.M
Data File	: F512172427.D	Operator	: PAH5:GRS
Date Inj'd	: 12/17/2024 10:48 pm	Instrument	: PAH 5
Sample	: WG2010208-4	Quant Date	: 12/18/2024 11:09 am

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

Evaluate Continuing Calibration Report

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\
Data File : F512172454.D
Acq On : 18 Dec 2024 11:23 am
Operator : PAH5:GRS
Sample : WG2010208-6
Misc : WG2010208,,ICAL21746,MSBV45
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 18 11:58:11 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Dec 18 11:15:17 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	1,4-Dioxane-d8 (IS)	1.000	1.000	0.0	130	0.00
2	1,4-dioxane	1.561	1.599	-2.4	129	0.00
3 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	153	0.00
4 s	1,4-dioxane-d8	0.257	0.212	17.5	125	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 : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\
Data File : F512172454.D
Acq On : 18 Dec 2024 11:23 am
Operator : PAH5:GRS
Sample : WG2010208-6
Misc : WG2010208,,ICAL21746,MSBV45
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 18 11:58:11 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Dec 18 11:15:17 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-Dioxane-d8 (IS)	4.348	64	3902	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.768	152	18416	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.348	64	3902	412.559	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 82.51%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.392	88	12475	1023.985	ng/mL	97

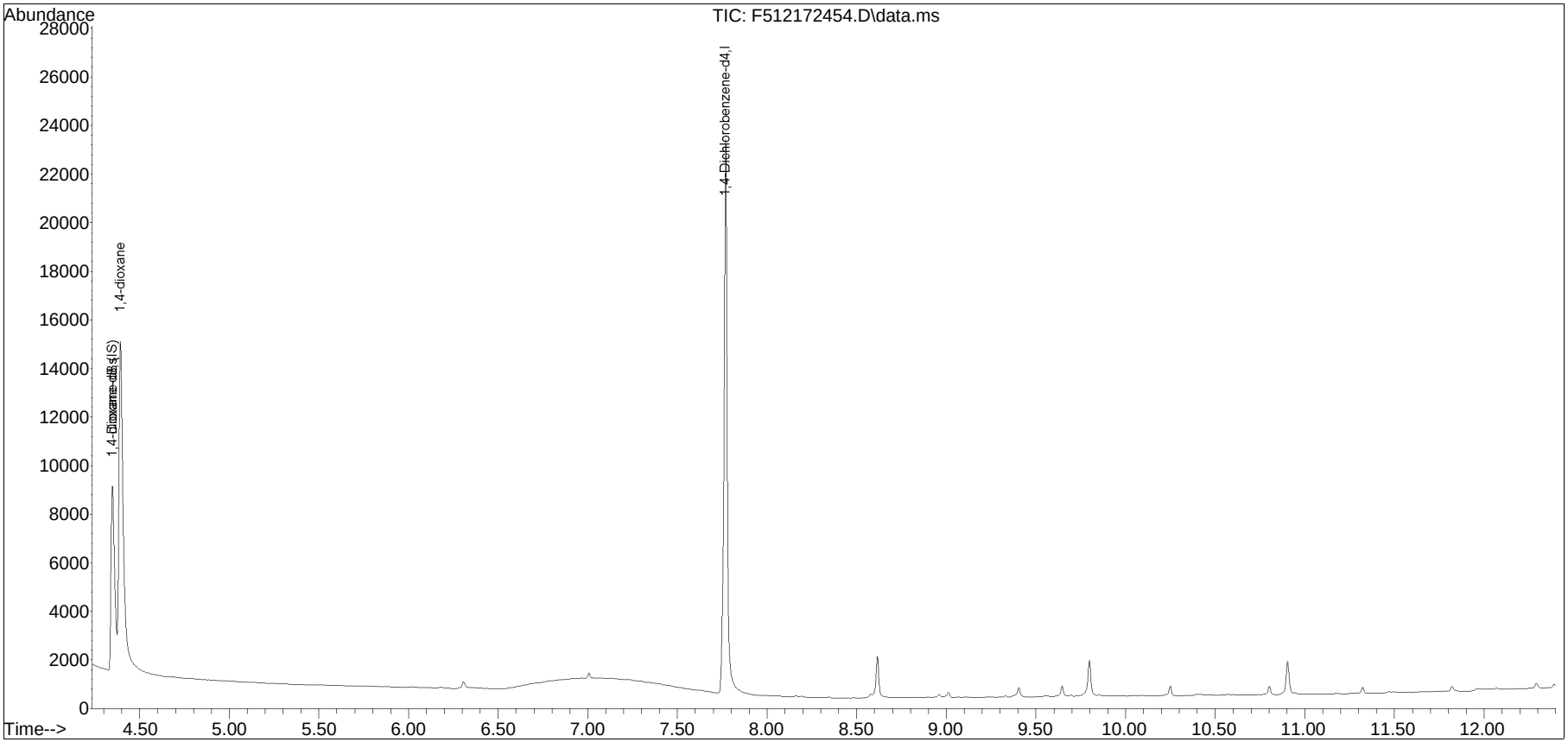
(#) = qualifier out of range (m) = manual integration (+) = signals summed

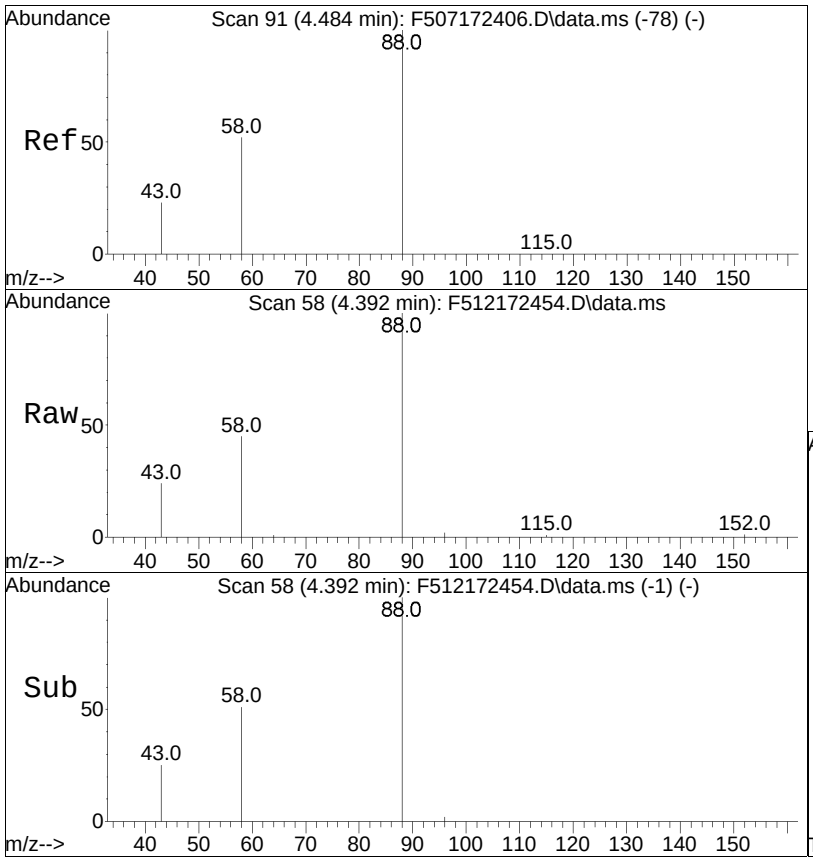
Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\
Data File : F512172454.D
Acq On : 18 Dec 2024 11:23 am
Operator : PAH5:GRS
Sample : WG2010208-6
Misc : WG2010208,,ICAL21746,MSBV45
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 18 11:58:11 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Dec 18 11:15:17 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

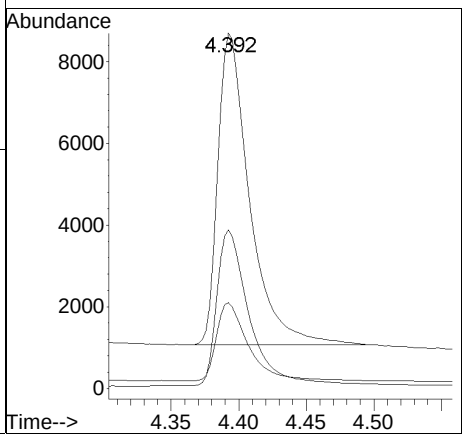




#2
1,4-dioxane
Concen: 1023.99 ng/mL
RT: 4.392 min Scan# 58
Delta R.T. 0.000 min
Lab File: F512172454.D
Acq: 18 Dec 2024 11:23 am

Tgt Ion: 88 Resp: 12475

Ion	Ratio	Lower	Upper
88	100		
58	52.1	42.8	64.2
43	25.2	18.6	28.0



Manual Integration/Negative Proof Report

Data Path	: S:\Organics-NEW\DATA\PAH5\2	QMethod	: 14DIOX1202PAH5.M
Data File	: F512172454.D	Operator	: PAH5:GRS
Date Inj'd	: 12/18/2024 11:23 am	Instrument	: PAH 5
Sample	: WG2010208-6	Quant Date	: 12/18/2024 11:58 am

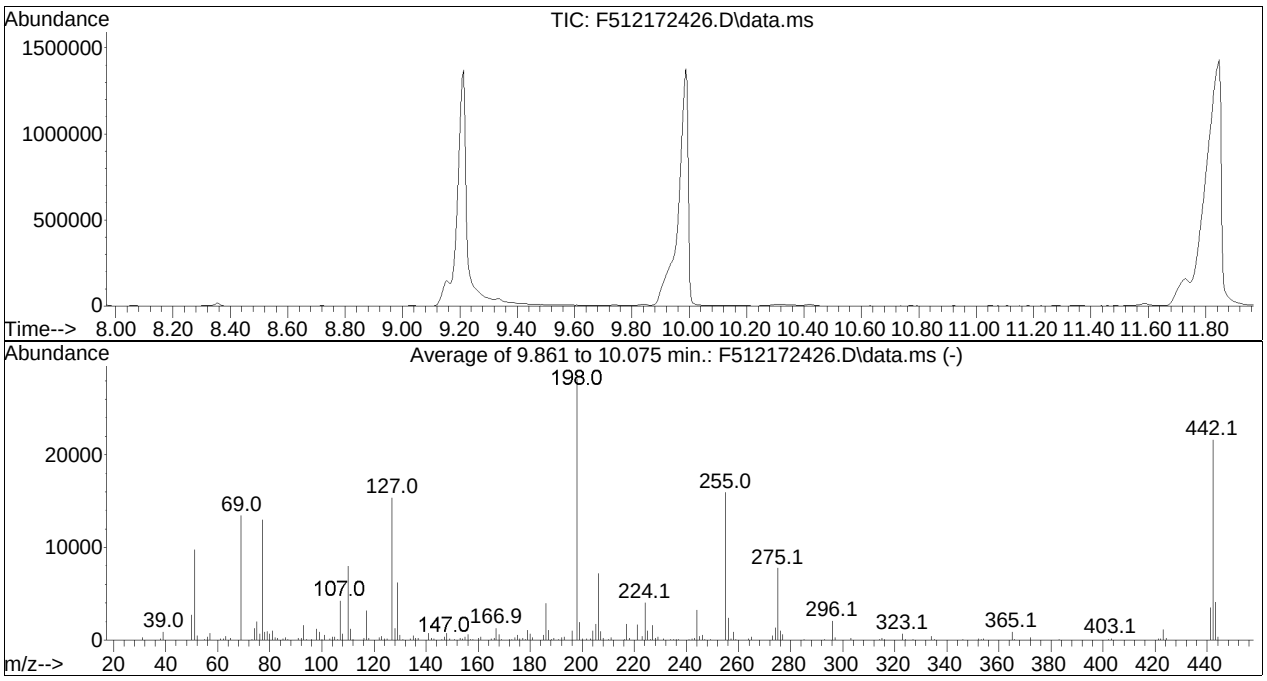
There are no manual integrations or false positives in this file.

Semivolatiles Raw QC Data

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\
Data File : F512172426.D
Acq On : 17 Dec 2024 10:00 pm
Operator : PAH5:GRS
Sample : WG2010208-3
Misc : WG2010208,,ICAL21746,MSBV35
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\14DIOX1202PAH5.M
Title : Semivolatiles by GC/MS
Last Update : Wed Dec 18 11:15:14 2024



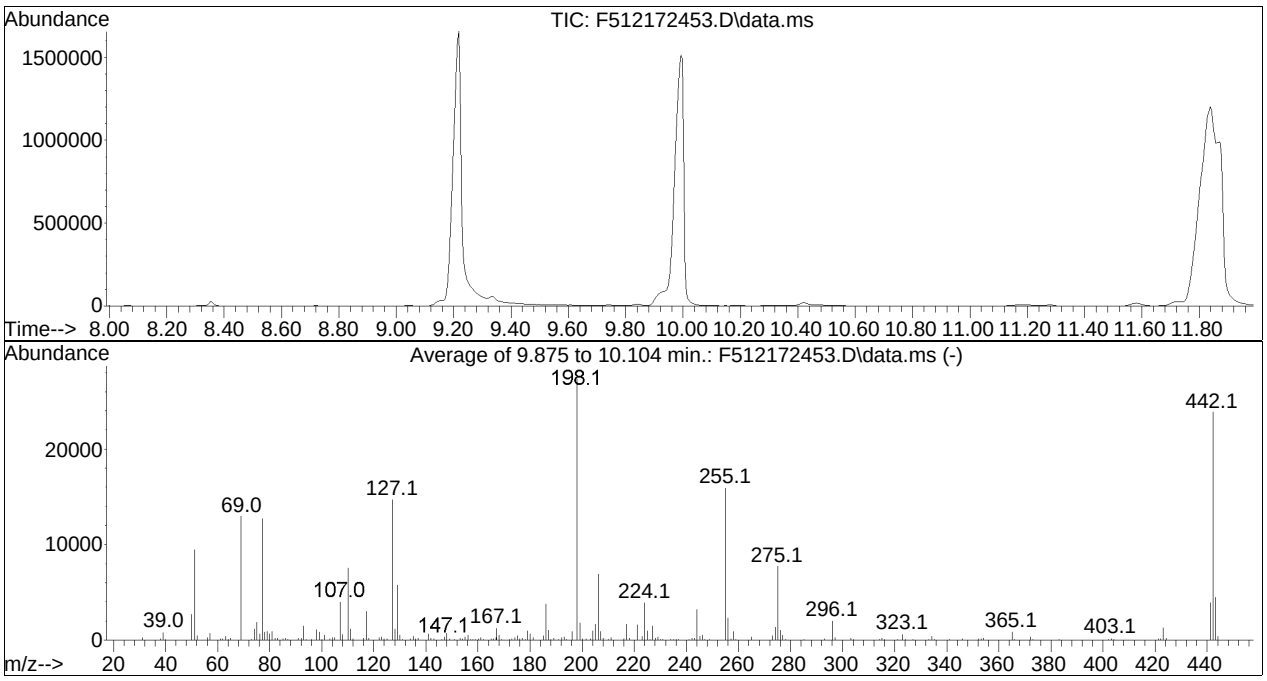
Spectrum Information: Average of 9.861 to 10.075 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.7	9790	PASS
68	69	0.00	2	0.1	13	PASS
70	69	0.00	2	0.2	27	PASS
127	198	10	80	54.4	15348	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	28218	PASS
199	198	5	9	6.8	1919	PASS
275	198	10	60	27.4	7741	PASS
365	198	1	100	3.1	876	PASS
441	442	0.01	24	16.4	3550	PASS
442	198	50	100	76.6	21607	PASS
443	442	15	24	19.0	4108	PASS

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\
Data File : F512172453.D
Acq On : 18 Dec 2024 10:36 am
Operator : PAH5:GRS
Sample : WG2010208-5
Misc : WG2010208,,ICAL21746,MSBV35
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\14DIOX1202PAH5.M
Title : Semivolatiles by GC/MS
Last Update : Wed Dec 18 11:15:14 2024



Spectrum Information: Average of 9.875 to 10.104 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.7	9500	PASS
68	69	0.00	2	0.0	6	PASS
70	69	0.00	2	0.3	40	PASS
127	198	10	80	53.7	14685	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	27360	PASS
199	198	5	9	6.7	1821	PASS
275	198	10	60	28.2	7718	PASS
365	198	1	100	3.2	863	PASS
441	442	0.01	24	16.5	3932	PASS
442	198	50	100	87.3	23875	PASS
443	442	15	24	18.8	4500	PASS

Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\
Data File : F512172432.D
Acq On : 18 Dec 2024 1:07 am
Operator : PAH5:GRS
Sample : WG2009460-1,32,,
Misc : WG2010208,WG2009460,ICAL21746
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Dec 18 11:16:57 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Dec 18 11:15:14 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-Dioxane-d8 (IS)	4.348	64	1428	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.760	152	15076	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.348	64	1428	184.432	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 36.89%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.		

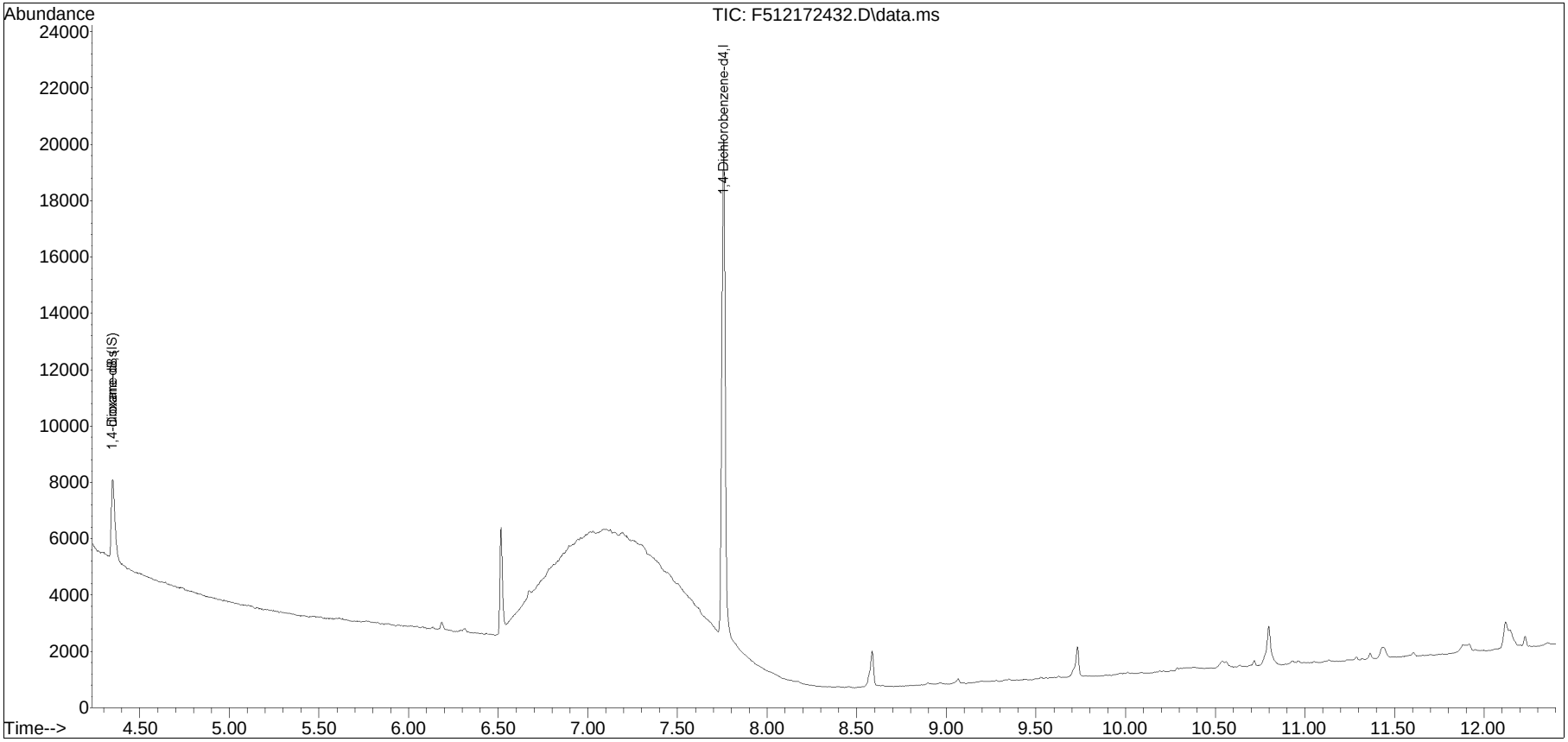
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\
Data File : F512172432.D
Acq On : 18 Dec 2024 1:07 am
Operator : PAH5:GRS
Sample : WG2009460-1,32,,
Misc : WG2010208,WG2009460,ICAL21746
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Dec 18 11:16:57 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Dec 18 11:15:14 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: S:\Organics-NEW\DATA\PAH5\2Q	Method	: 14DIOX1202PAH5.M
Data File	: F512172432.D	Operator	: PAH5:GRS
Date Inj'd	: 12/18/2024 1:07 am	Instrument	: PAH 5
Sample	: WG2009460-1,32,,	Quant Date	: 12/18/2024 11:16 am

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

Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\
Data File : F512172433.D
Acq On : 18 Dec 2024 1:35 am
Operator : PAH5:GRS
Sample : WG2009460-2,32,,
Misc : WG2010208,WG2009460,ICAL21746
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Dec 18 11:16:59 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Dec 18 11:15:14 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-Dioxane-d8 (IS)	4.367	64	1328	500.000	ng/mL	0.02
3) 1,4-Dichlorobenzene-d4	7.760	152	14660	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.367	64	1328	176.384	ng/mL	0.02
Spiked Amount 500.000	Range 15 - 115		Recovery = 35.28%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.414	88	2701	651.429	ng/mL	97

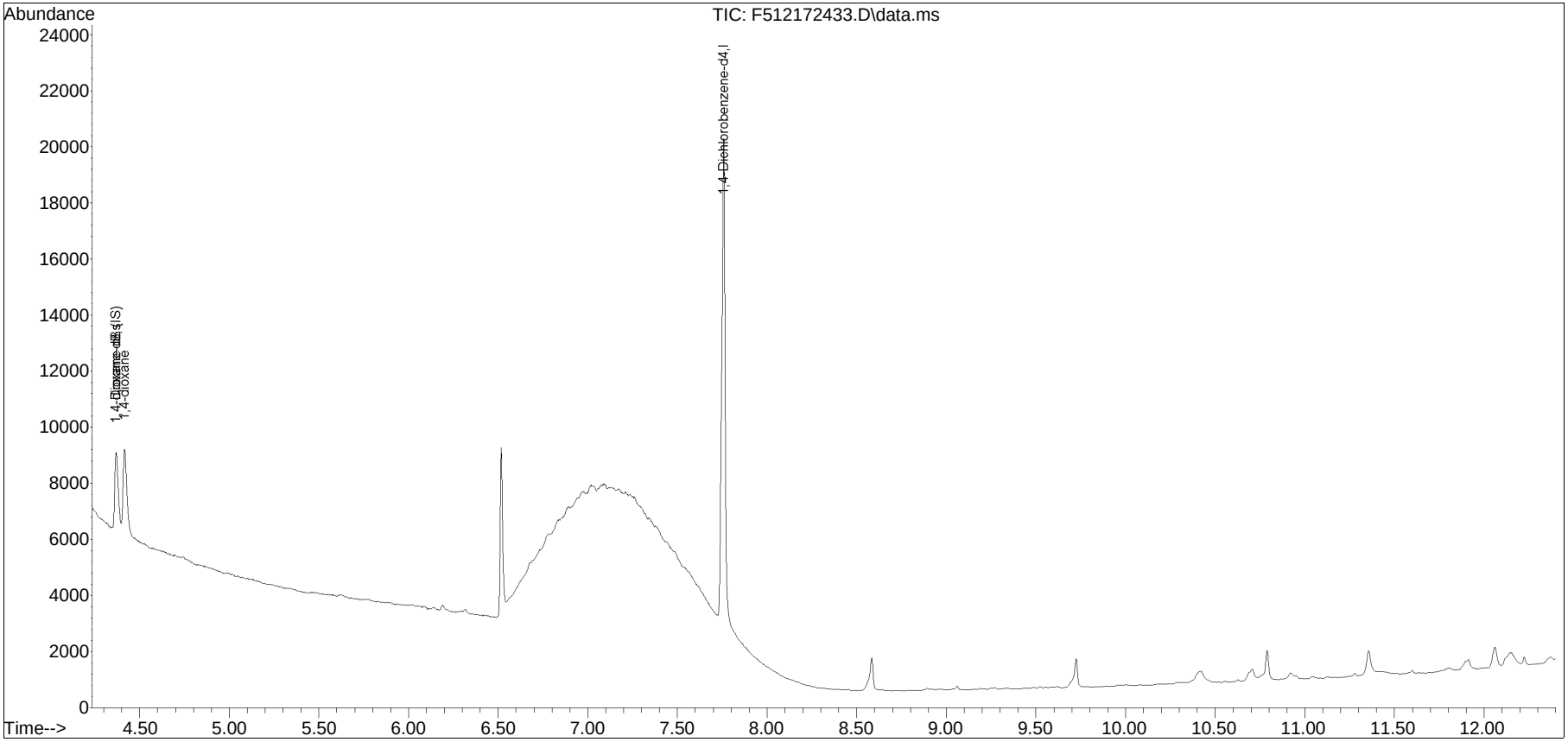
(#) = qualifier out of range (m) = manual integration (+) = signals summed

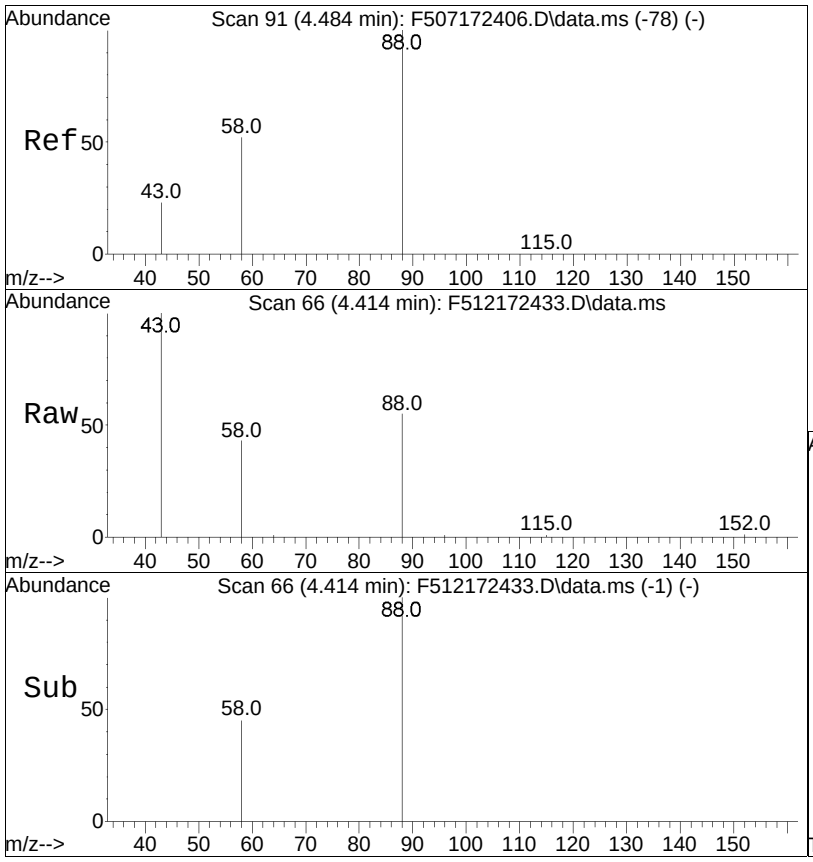
Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\
Data File : F512172433.D
Acq On : 18 Dec 2024 1:35 am
Operator : PAH5:GRS
Sample : WG2009460-2,32,,
Misc : WG2010208,WG2009460,ICAL21746
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Dec 18 11:16:59 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Dec 18 11:15:14 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

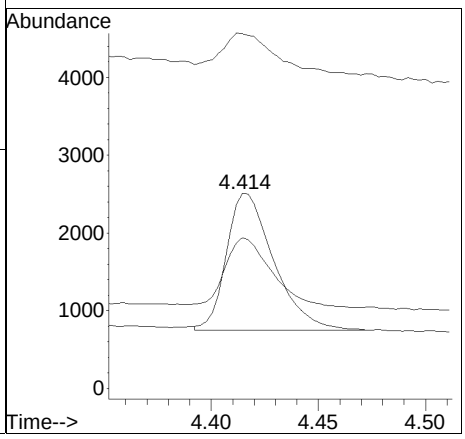




#2
1,4-dioxane
Concen: 651.43 ng/mL
RT: 4.414 min Scan# 66
Delta R.T. 0.022 min
Lab File: F512172433.D
Acq: 18 Dec 2024 1:35 am

Tgt Ion: 88 Resp: 2701

Ion	Ratio	Lower	Upper
88	100		
58	50.5	42.8	64.2
43	24.0	18.6	28.0



Manual Integration/Negative Proof Report

Data Path	: S:\Organics-NEW\DATA\PAH5\2	QMethod	: 14DIOX1202PAH5.M
Data File	: F512172433.D	Operator	: PAH5:GRS
Date Inj'd	: 12/18/2024 1:35 am	Instrument	: PAH 5
Sample	: WG2009460-2,32,,	Quant Date	: 12/18/2024 11:16 am

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

Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\
Data File : F512172434.D
Acq On : 18 Dec 2024 2:03 am
Operator : PAH5:GRS
Sample : WG2009460-3,32,,
Misc : WG2010208,WG2009460,ICAL21746
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Dec 18 11:17:07 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Dec 18 11:15:14 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-Dioxane-d8 (IS)	4.348	64	1196	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.762	152	13979	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.348	64	1196	166.590	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 33.32%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.398	88	2481M7	664.410	ng/mL	

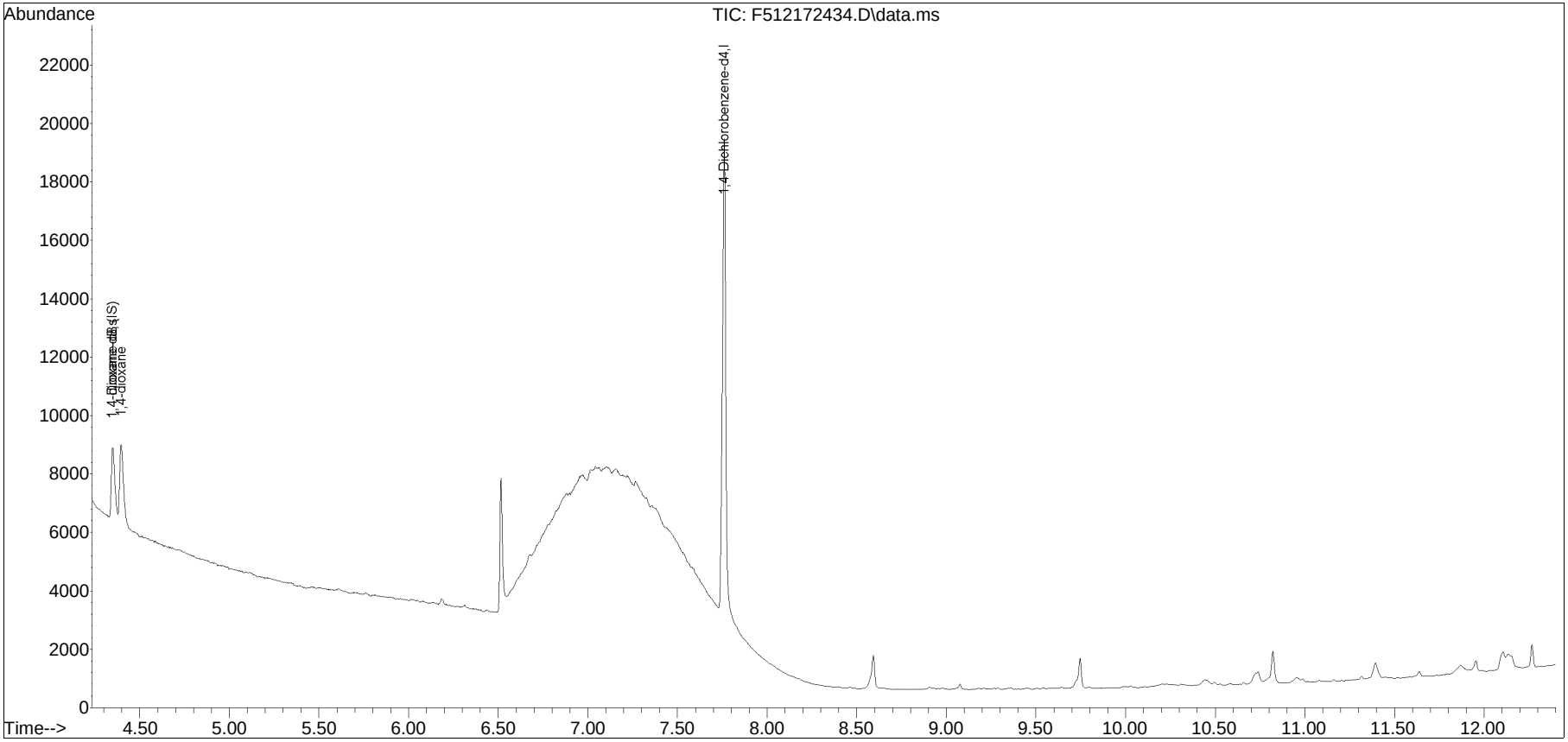
(#) = qualifier out of range (m) = manual integration (+) = signals summed

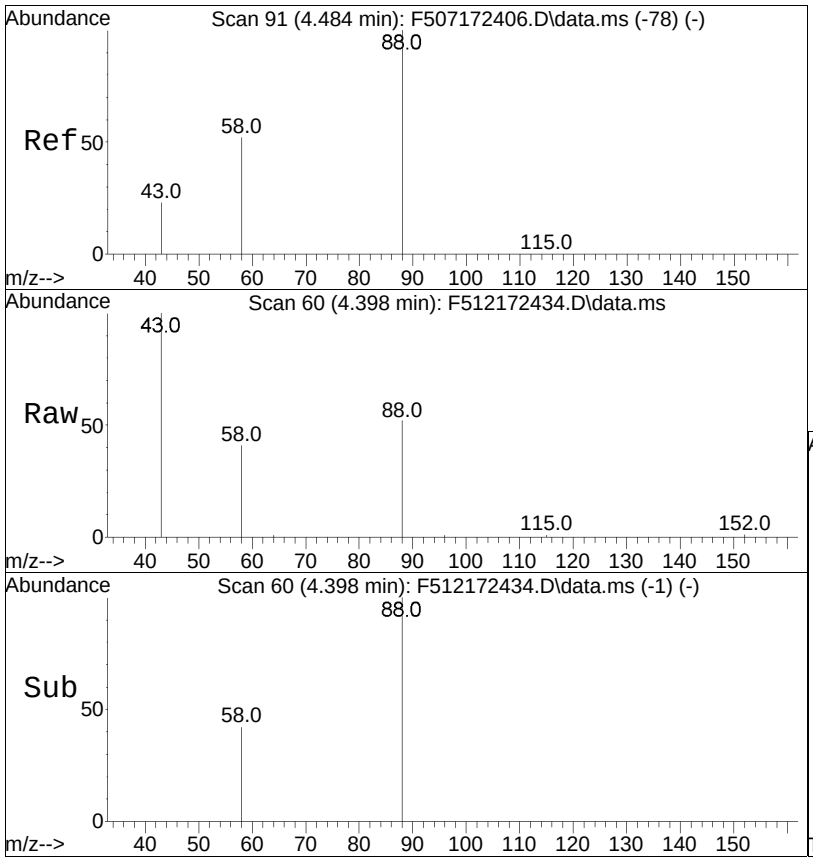
Quantitation Report (QT Reviewed)

Data Path : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\
Data File : F512172434.D
Acq On : 18 Dec 2024 2:03 am
Operator : PAH5:GRS
Sample : WG2009460-3,32,,
Misc : WG2010208,WG2009460,ICAL21746
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Dec 18 11:17:07 2024
Quant Method : S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\14DIOX1202PAH5.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Dec 18 11:15:14 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

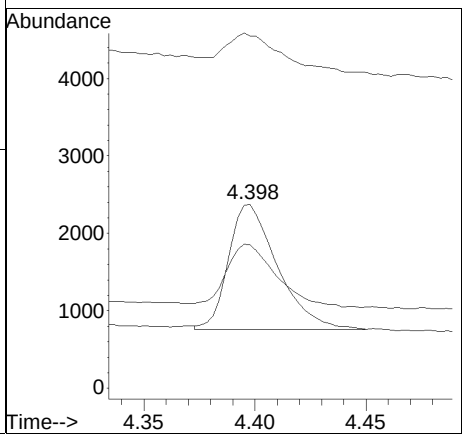




#2
1,4-dioxane
Concen: 664.41 ng/mL M7
RT: 4.398 min Scan# 60
Delta R.T. 0.005 min
Lab File: F512172434.D
Acq: 18 Dec 2024 2:03 am

Tgt Ion: 88 Resp: 2481

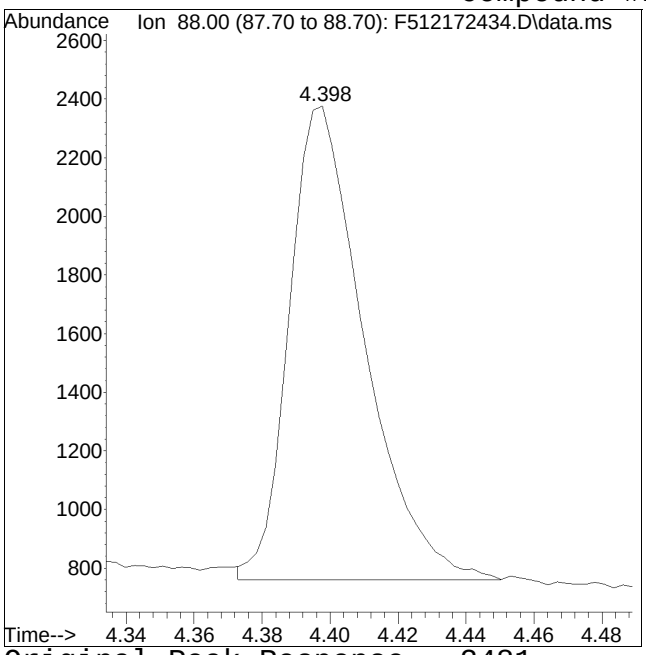
Ion	Ratio	Lower	Upper
88	100		
58	50.8	42.8	64.2
43	23.2	18.6	28.0



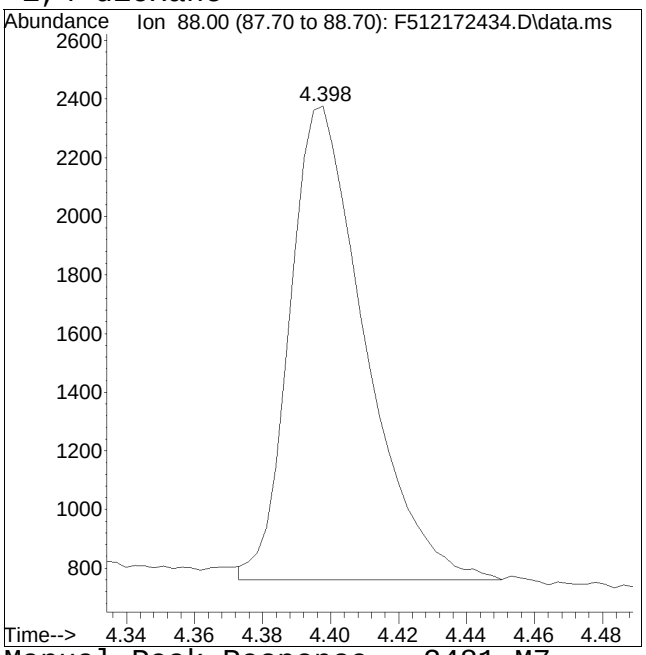
Manual Integration/Negative Proof Report

Data Path : S:\Organics-NEW\DATA\PAH5\2QMethod : 14DIOX1202PAH5.M
Data File : F512172434.D Operator : PAH5:GRS
Date Inj'd : 12/18/2024 2:03 am Instrument : PAH 5
Sample : WG2009460-3,32,, Quant Date : 12/18/2024 11:17 am

Compound #2: 1,4-dioxane



Original Peak Response = 2481



Manual Peak Response = 2481 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Calculation of Semi Volatile Organic Compounds

Results of Water Analysis- calculation as performed in report form:

$$\text{Concentration (ug/L)} = \frac{(\text{Conc})\ (\text{Vf})\ (\text{DF})}{(\text{Vi})} \times 1000$$

where:
Conc =Raw on-column concentration obtained from the quantitation report using Initial Calibration results.
Vf = Final volume of extract (mL)
Vi= Volume of sample extracted (mL)
DF= Dilution factor

Results of Sediment/Soil Analysis- calculation as performed in report form:

$$\text{Concentration (ug/Kg)} = \frac{(\text{Conc})\ (\text{Vf})\ (\text{DF})}{(\text{W})\ (\%\text{S})}$$

where:
Conc =Raw on-column concentration obtained from the quantitation report using Initial Calibration results.
Vf = Final volume of extract (mL)
W= Aliquot of sample (wet), g
DF= Dilution factor
%S= Sample %solid (in decimal form)

PACE ANALYTICAL SERVICES

PACE WORK GROUP REPORT (wk02)

Dec 18 2024, 03:10 pm

Work Group: WG2010208 for Department: 32 GC/MS - Semivolatiles

Created: 17-DEC-24 Due: Operator: GRS

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2472128-06	PDIWMW-04-20241209-01	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	1216	1217	S0	Amber-A.25
L2472128-08	PDIWMW-06-20241209-01	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	1216	1217	S0	Amber-A.25
L2472128-20	EB-20241209-01	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	1216	1217	S0	Amber-A.25
L2472497-01	DPP-1	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	1217	1218	S0	Amber-A.25
L2472497-02	FA-11	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	1217	1218	S0	Amber-A.25
L2472497-03	FA-13	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	1217	1218	S0	Amber-A.25
L2472497-04	FA-19	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	1217	1218	S0	Amber-A.25
L2472497-05	MRVU-1	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	1217	1218	S0	Amber-A.25
L2472497-06	FA-12	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	1217	1218	S0	Amber-A.25
L2472497-07	PER-8	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	1217	1218	S0	Amber-A.25
L2472497-08	TL-2	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	1217	1218	S0	Amber-A.25
L2472497-09	TL-4 (10)	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	1217	1218	S0	Amber-A.25
L2472497-10	TL-1	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	1217	1218	S0	Amber-A.25
L2472497-11	TL-1D	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	1217	1218	S0	Amber-A.25
L2472497-12	PER-7	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	1217	1218	S0	Amber-A.25
L2472497-13	SRB-1	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	1217	1218	S0	Amber-A.25
L2472497-14	RTF-2	S	A2-NJ-14DIOXSIM-PPB	WATER	SENT	U	1217	1218	S0	Amber-A.25
L2472497-15	RTF-3	S	A2-NJ-14DIOXSIM-PPB	WATER	SENT	U	1217	1218	S0	Amber-A.25
L2472497-16	RTF-4	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	1217	1218	S0	Amber-A.25
L2472497-17	RTF-5	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	1217	1218	S0	Amber-A.25
L2472497-18	RTF-6	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	1217	1218	S0	Amber-A.25
L2472685-10	DW-7D-20241210-01	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	1217	1218	S0	Amber-A.25
L2472685-11	KA-2D-20241210-01	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	1217	1218	S0	Amber-A.25
L2472685-12	FB-20241209-01	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	1217	1218	S0	Amber-A.25
L2472685-15	DUP-2-20241210	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	1217	1218	S0	Amber-A.25
L2472685-16	EB-20241210	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	1217	1218	S0	Amber-A.25
L2472770-01	MW-1D	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	1217	1218	S0	Amber-A.25
L2472770-02	MW-8	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	1217	1226	S0	Amber-A.25
L2472770-03	MW-11	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	1216	1218	S0	Amber-A.25
L2472770-04	MW-12	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	1217	1218	S0	Amber-A.25
L2472770-05	MW-14	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	1217	1218	S0	Amber-A.25
L2472770-08	FB-20241209	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	1216	1226	S0	Amber-A.25
L2473010-01	GW-7	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	1219	1219	S0	Amber-A.25
L2473010-02	FIELD BLANK	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	1219	1219	S0	Amber-A.25
L2473010-03	EQUIPMENT BLANK	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	1219	1219	S0	Amber-A.25
L2473445-01	EFFLUENT	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	1220	1220	S0	Amber-A.25
L2473522-01	GW-7	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	1220	1220	S0	Amber-A.25
L2473538-04	MW-10S	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	1220	1220	S0	Amber-A.25
L2473538-06	EB_12132024	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	1220	1220	S0	Amber-A.25
L2473567-01	CPS-RW1_121224	S	A2-NJ-14DIOXSIM-PPB	WATER	SENT	U	1219	1220	S0	Amber-A.25
L2473567-02	CPS-RW2_121224	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	1219	1220	S0	Amber-A.25
L2473567-03	CPS-RW3_121224	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	1219	1220	S0	Amber-A.25
L2473616-01	GW05_121324	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	1220	1220	S0	Amber-A.25
WG2009456-1	Laboratory Method Bl	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG2009456-2	Laboratory Control S	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG2009456-3	LCS Duplicate	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG2009456-4	Matrix Spike	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG2009456-5	Duplicate Sample	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG2009458-1	Laboratory Method Bl	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG2009458-2	Laboratory Control S	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG2009458-3	LCS Duplicate	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG2009460-1	Laboratory Method Bl	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG2009460-2	Laboratory Control S	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG2009460-3	LCS Duplicate	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG2009461-1	Laboratory Method Bl	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG2009461-2	Laboratory Control S	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG2009461-3	LCS Duplicate	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG2009566-1	Laboratory Method Bl	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG2009566-2	Laboratory Control S	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG2009566-3	LCS Duplicate	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG2009865-1	Laboratory Method Bl	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG2009865-2	Laboratory Control S	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				

PACE ANALYTICAL SERVICES

PACE WORK GROUP REPORT (wk02)

Dec 18 2024, 03:10 pm

Work Group: WG2010208 for Department: 32 GC/MS - Semivolatiles

Created: 17-DEC-24 Due: Operator: GRS

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
WG2009865-3	LCS Duplicate	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG2009865-4	Matrix Spike	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG2009865-5	Duplicate Sample	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG2010208-1	MS DFTPP Tune Standa	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG2010208-1	MS DFTPP Tune Standa	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG2010208-1	MS DFTPP Tune Standa	S	A2-14-DIOXANESIM-PPB	WATER	DACQ	U				
WG2010208-2	Continuing Calibrati	S	A2-14-DIOXANESIM-PPB	WATER	DACQ	U				
WG2010208-2	Continuing Calibrati	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG2010208-2	Continuing Calibrati	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG2010208-3	MS DFTPP Tune Standa	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG2010208-3	MS DFTPP Tune Standa	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG2010208-3	MS DFTPP Tune Standa	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG2010208-4	Continuing Calibrati	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG2010208-4	Continuing Calibrati	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG2010208-4	Continuing Calibrati	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG2010208-5	MS DFTPP Tune Standa	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG2010208-5	MS DFTPP Tune Standa	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG2010208-5	MS DFTPP Tune Standa	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG2010208-6	Continuing Calibrati	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG2010208-6	Continuing Calibrati	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG2010208-6	Continuing Calibrati	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				

Comments:

WG2009456-3	WG2009456-2
WG2009456-4	L2472685-10
WG2009456-5	L2472685-11
WG2009458-3	WG2009458-2
WG2009460-3	WG2009460-2
WG2009461-3	WG2009461-2
WG2009566-3	WG2009566-2
WG2009865-3	WG2009865-2
WG2009865-4	L2472497-01
WG2009865-5	L2472497-02

Analysis log File

Total Files Reported in Log : 9
Log Generated From Directory: S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC02B\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	F512022401.D	DFTPPPAH5.M	T512022401	WG2004524,MSBV35	12/2/2024 1:55 pm
2	F512022402.D	14DIOXANEPAH	I512022401	WG2004524,MSBV28	12/2/2024 2:45 pm
3	F512022403.D	14DIOXANEPAH	I512022402	WG2004524,MSBV29	12/2/2024 3:15 pm
4	F512022404.D	14DIOXANEPAH	I512022403	WG2004524,MSBV30	12/2/2024 3:46 pm
5	F512022405.D	14DIOXANEPAH	I512022404	WG2004524,MSBV31	12/2/2024 4:16 pm
6	F512022406.D	14DIOXANEPAH	I512022405	WG2004524,MSBV45	12/2/2024 4:45 pm
7	F512022407.D	14DIOXANEPAH	I512022406	WG2004524,MSBV32	12/2/2024 5:15 pm
8	F512022408.D	14DIOXANEPAH	I512022407	WG2004524,MSBV27	12/2/2024 5:44 pm
9	F512022409.D	14DIOXANEPAH	CQ512022401	WG2004524,MSBV37	12/2/2024 6:14 pm

SeqLog 1.0 - (c) 2009 Abacus Database Applications

Analysis log File

Total Files Reported in Log : 59
Log Generated From Directory: S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	F512172401.D	DFTPPPAH5.M	WG2010208-1	WG2010208,,ICAL21746,MS..	12/17/2024 9:10 am
2	F512172402.D	14DIOXANEPAH	WG2010208-2	WG2010208,,ICAL21746,MS..	12/17/2024 9:58 am
3	F512172403.D	14DIOXANEPAH	l2472128-20,32	WG2010208,WG2008387,ICA..	12/17/2024 10:52 am
4	F512172404.D	14DIOXANEPAH	l2472128-06,32	WG2010208,WG2008387,ICA..	12/17/2024 11:20 am
5	F512172405.D	14DIOXANEPAH	l2472128-08,32	WG2010208,WG2008387,ICA..	12/17/2024 11:48 am
6	F512172406.D	14DIOXANEPAH	WG2009865-1,32,,	WG2010208,WG2009865,ICA..	12/17/2024 12:18 pm
7	F512172407.D	14DIOXANEPAH	WG2009865-2,32,,	WG2010208,WG2009865,ICA..	12/17/2024 12:48 pm
8	F512172408.D	14DIOXANEPAH	WG2009865-3,32,,	WG2010208,WG2009865,ICA..	12/17/2024 1:17 pm
9	F512172409.D	14DIOXANEPAH	L2472497-01,32,,	WG2010208,WG2009865,ICA..	12/17/2024 1:47 pm
10	F512172410.D	14DIOXANEPAH	WG2009865-4,32,,	WG2010208,WG2009865,ICA..	12/17/2024 2:15 pm
11	F512172411.D	14DIOXANEPAH	L2472497-02,32,,	WG2010208,WG2009865,ICA..	12/17/2024 2:44 pm
12	F512172412.D	14DIOXANEPAH	WG2009865-5,32,,	WG2010208,WG2009865,ICA..	12/17/2024 3:12 pm
13	F512172413.D	14DIOXANEPAH	L2472497-03,32,,	WG2010208,WG2009865,ICA..	12/17/2024 3:41 pm
14	F512172414.D	14DIOXANEPAH	L2472497-04,32,,	WG2010208,WG2009865,ICA..	12/17/2024 4:11 pm
15	F512172415.D	14DIOXANEPAH	L2472497-05,32,,	WG2010208,WG2009865,ICA..	12/17/2024 4:42 pm
16	F512172416.D	14DIOXANEPAH	L2472497-06,32,,	WG2010208,WG2009865,ICA..	12/17/2024 5:13 pm
17	F512172417.D	14DIOXANEPAH	L2472497-07,32,,	WG2010208,WG2009865,ICA..	12/17/2024 5:45 pm
18	F512172418.D	14DIOXANEPAH	L2472497-08,32,,	WG2010208,WG2009865,ICA..	12/17/2024 6:16 pm
19	F512172419.D	14DIOXANEPAH	L2472497-09,32,,	WG2010208,WG2009865,ICA..	12/17/2024 6:45 pm
20	F512172420.D	14DIOXANEPAH	L2472497-10,32,,	WG2010208,WG2009865,ICA..	12/17/2024 7:15 pm
21	F512172421.D	14DIOXANEPAH	L2472497-11,32,,	WG2010208,WG2009865,ICA..	12/17/2024 7:44 pm
22	F512172422.D	14DIOXANEPAH	L2472497-12,32,,	WG2010208,WG2009865,ICA..	12/17/2024 8:14 pm
23	F512172423.D	14DIOXANEPAH	L2472497-13,32,,	WG2010208,WG2009865,ICA..	12/17/2024 8:42 pm
24	F512172424.D	14DIOXANEPAH	L2472497-14,32,,	OTT	12/17/2024 9:11 pm
25	F512172425.D	14DIOXANEPAH	L2472497-15,32,,	OTT	12/17/2024 9:39 pm
26	F512172426.D	DFTPPPAH5.M	WG2010208-3	WG2010208,,ICAL21746,MS..	12/17/2024 10:00 pm
27	F512172427.D	14DIOXANEPAH	WG2010208-4	WG2010208,,ICAL21746,MS..	12/17/2024 10:48 pm
28	F512172428.D	14DIOXANEPAH	L2472497-16,32,,	WG2010208,WG2009865,ICA..	12/17/2024 11:17 pm
29	F512172429.D	14DIOXANEPAH	L2472497-17,32,,	WG2010208,WG2009865,ICA..	12/17/2024 11:44 pm
30	F512172430.D	14DIOXANEPAH	L2472497-18,32,,	WG2010208,WG2009865,ICA..	12/18/2024 12:12 am
31	F512172431.D	14DIOXANEPAH	L2472770-08,32,,	WG2010208,WG2009566,ICA..	12/18/2024 12:40 am
32	F512172432.D	14DIOXANEPAH	WG2009458-1,32,,	WG2010208,WG2009458,ICA..	12/18/2024 1:07 am
33	F512172433.D	14DIOXANEPAH	WG2009458-2,32,,	WG2010208,WG2009458,ICA..	12/18/2024 1:35 am
34	F512172434.D	14DIOXANEPAH	WG2009458-3,32,,	WG2010208,WG2009458,ICA..	12/18/2024 2:03 am
35	F512172435.D	14DIOXANEPAH	L2472770-02,32,,	WG2010208,WG2009566,ICA..	12/18/2024 2:30 am
36	F512172436.D	14DIOXANEPAH	L2472685-10,32,,	WG2010208,WG2009456,ICA..	12/18/2024 2:58 am
37	F512172437.D	14DIOXANEPAH	WG2009456-4,32,,	WG2010208,WG2009456,ICA..	12/18/2024 3:24 am
38	F512172438.D	14DIOXANEPAH	L2472685-11,32,,	WG2010208,WG2009456,ICA..	12/18/2024 3:51 am
39	F512172439.D	14DIOXANEPAH	WG2009456-5,32,,	WG2010208,WG2009456,ICA..	12/18/2024 4:19 am
40	F512172440.D	14DIOXANEPAH	L2472685-12,32,,	WG2010208,WG2009456,ICA..	12/18/2024 4:46 am
41	F512172441.D	14DIOXANEPAH	L2472685-15,32,,	WG2010208,WG2009456,ICA..	12/18/2024 5:13 am
42	F512172442.D	14DIOXANEPAH	L2472685-16,32,,	WG2010208,WG2009456,ICA..	12/18/2024 5:40 am
43	F512172443.D	14DIOXANEPAH	L2472770-01,32,,	WG2010208,WG2009461,ICA..	12/18/2024 6:08 am
44	F512172444.D	14DIOXANEPAH	L2472770-03,32,,	WG2010208,WG2009461,ICA..	12/18/2024 6:35 am
45	F512172445.D	14DIOXANEPAH	L2472770-04,32,,	WG2010208,WG2009461,ICA..	12/18/2024 7:02 am
46	F512172446.D	14DIOXANEPAH	L2472770-05,32,,	WG2010208,WG2009461,ICA..	12/18/2024 7:30 am
47	F512172447.D	14DIOXANEPAH	L2473010-01,32,,	WG2010208,WG2009461,ICA..	12/18/2024 7:57 am
48	F512172448.D	14DIOXANEPAH	L2473010-02,32,,	WG2010208,WG2009461,ICA..	12/18/2024 8:24 am
49	F512172449.D	14DIOXANEPAH	L2473010-03,32,,	WG2010208,WG2009461,ICA..	12/18/2024 8:51 am
50	F512172450.D	14DIOXANEPAH	L2473522-01,32,,	WG2010208,WG2009461,ICA..	12/18/2024 9:19 am
51	F512172451.D	14DIOXANEPAH	L2473445-01,32,,	WG2010208,WG2009456,ICA..	12/18/2024 9:47 am
52	F512172452.D	14DIOXANEPAH	L2473567-01,32,,	OTT	12/18/2024 10:15 am
53	F512172453.D	DFTPPPAH5.M	WG2010208-5	WG2010208,,ICAL21746,MS..	12/18/2024 10:36 am
54	F512172454.D	14DIOXANEPAH	WG2010208-6	WG2010208,,ICAL21746,MS..	12/18/2024 11:23 am
55	F512172455.D	14DIOXANEPAH	L2473567-02,32,,	WG2010208,WG2009456,ICA..	12/18/2024 11:53 am
56	F512172456.D	14DIOXANEPAH	L2473567-03,32,,	WG2010208,WG2009456,ICA..	12/18/2024 12:22 pm

Printed: 12/18/24 Page: 1

SeqLog 1.0 - (c) 2009 Abacus Database Applications

Analysis log File

Total Files Reported in Log : 59
Log Generated From Directory: S:\Organics-NEW\DATA\PAH5\2024\DEC\DEC17\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
57	F512172457.D	14DIOXANEPAH	L2473538-04,32,,	WG2010208,WG2009460,ICA..	12/18/2024 12:51 pm
58	F512172458.D	14DIOXANEPAH	L2473538-06,32,,	WG2010208,WG2009460,ICA..	12/18/2024 1:20 pm
59	F512172459.D	14DIOXANEPAH	L2473616-01,32,,	WG2010208,WG2009458,ICA..	12/18/2024 1:50 pm

SeqLog 1.0 - (c) 2009 Abacus Database Applications

ORGANIC ELN REPORT

Workgroup: WG2009460

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EJ475-US
Surrogate Type: 1,4-DIOXANE **Lot #:** MSBV25
Spike Type: 1,4-DIOXANE **Lot #:** MSBV20
Spike Verify by: KAR
Lims Spikelot: 14DIOXANE

Additional Reagents/Stds

Glass Wool	29022999
Na2SO4	ON121324D

Conc.Method: S-EVAP
Solvent Type: DCM
Lot #: EJ475-US

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2473538-04 SAMP	12/15/24 17:45	Katelyn Charron	250	7	.25		12/15/24 19:05	Katelyn Charron	2.5	SEVAP 5
L2473538-06 SAMP	12/15/24 17:45	Katelyn Charron	270	7	.25		12/15/24 19:05	Katelyn Charron	2.5	SEVAP 5
WG2009460-1 BLANK	12/15/24 17:45	Katelyn Charron	250	7	.25		12/15/24 19:05	Katelyn Charron	2.5	SEVAP 5
SHARING QCS WITH WG2009456, WG2009458, WG2009461										
WG2009460-2 LCS	12/15/24 17:45	Katelyn Charron	250	7	.25	.25	12/15/24 19:05	Katelyn Charron	2.5	SEVAP 5
WG2009460-3 LCSD	12/15/24 17:45	Katelyn Charron	250	7	.25	.25	12/15/24 19:05	Katelyn Charron	2.5	SEVAP 5

Reported: 18-DEC-24 03:08 PM

Metals

Inorganic Data
(ICP Analysis)

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
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**	: L2473538
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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010403-8	**Date Collected**	: 12/12/24 12:00
Client ID	: WG2010403-8 DUP	**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**	: L2473538
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 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2473538
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2473538-01	Date Collected	: 12/13/24 08:20
Client ID	: PZ-5	Date Received	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 12/19/24 20:30
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: JMF
Lab File ID	: WG2011242.pdf	Instrument ID	: TRACE6
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/18/24

		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	0.0308	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	38.9	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	0.0221	0.0500	0.0090	J
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	7.06	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	1.51	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	3.35	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	0.0030	0.0050	0.0021	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2473538
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2473538-02	Date Collected	: 12/13/24 09:45
Client ID	: MW-5D	Date Received	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 12/19/24 20:16
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: JMF
Lab File ID	: WG2011242.pdf	Instrument ID	: TRACE6
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/18/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	0.328	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	0.0548	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	0.868	0.0500	0.0090	
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	7.14	0.100	0.0153	
7439-96-5	Manganese, Total	0.0198	0.0100	0.0016	
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.49	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	19.9	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	0.0027	0.0050	0.0021	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2473538
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2473538-03	Date Collected	: 12/13/24 11:20
Client ID	: SCDOH-DR	Date Received	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 12/19/24 20:23
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: JMF
Lab File ID	: WG2011242.pdf	Instrument ID	: TRACE6
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/18/24

		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	0.0194	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	16.6	0.100	0.0350	
7440-47-3	Chromium, Total	0.0021	0.0100	0.0021	J
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	0.183	0.0500	0.0090	
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	0.111	0.0100	0.0016	
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.68	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	22.6	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	0.0077	0.0050	0.0021	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2473538
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2473538-04	Date Collected	: 12/13/24 12:43
Client ID	: MW-10S	Date Received	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 12/19/24 22:09
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: JMF
Lab File ID	: WG2011242.pdf	Instrument ID	: TRACE6
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/18/24

		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	0.0361	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	6.33	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	0.0117	0.0500	0.0090	J
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	1.90	0.100	0.0153	
7439-96-5	Manganese, Total	0.0053	0.0100	0.0016	J
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.12	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	4.81	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	0.0096	0.0050	0.0021	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-05	**Date Collected**	: 12/13/24 12:30
Client ID	: MW-10D	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 22:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG2011242.pdf	**Instrument ID**	: TRACE6
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 12/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.0435	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	0.0053	0.0100	0.0021	J
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	20.9	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	0.120	0.0500	0.0090	
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	2.63	0.100	0.0153	
7439-96-5	Manganese, Total	0.0247	0.0100	0.0016	
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	0.786	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	6.50	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010915-1	**Date Collected**	: NA
Client ID	: WG2010915-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/19/24 20:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG2011242.pdf	**Instrument ID**	: TRACE6
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 12/18/24

		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	0.0487	0.100	0.0350	J
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	ND	0.0500	0.0090	U
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	ND	0.100	0.0153	U
7439-96-5	Manganese, Total	ND	0.0100	0.0016	U
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	ND	2.50	0.237	U
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	ND	2.00	0.120	U
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010915-4	**Date Collected**	: 12/17/24 14:30
Client ID	: WG2010915-4 DUP	**Date Received**	: 12/17/24
Sample Location	:	**Date Analyzed**	: 12/19/24 20:49
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG2011242.pdf	**Instrument ID**	: TRACE6
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 12/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-62-2	Vanadium, Total	0.0099	0.0100	0.002	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010915-8	**Date Collected**	: 12/17/24 14:30
Client ID	: WG2010915-8 DUP	**Date Received**	: 12/17/24
Sample Location	:	**Date Analyzed**	: 12/19/24 22:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG2011242.pdf	**Instrument ID**	: TRACE6
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 12/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-62-2	Vanadium, Total	ND	0.0100	0.002	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2473538
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2473538-01	Date Collected	: 12/13/24 08:20
Client ID	: PZ-5	Date Received	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 12/20/24 11:27
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2011751.csv	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	0.0270	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	33.3	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	0.0035	0.0100	0.0022	J
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	7.61	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	1.44	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	3.48	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	0.0041	0.0050	0.0021	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2473538
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2473538-02	Date Collected	: 12/13/24 09:45
Client ID	: MW-5D	Date Received	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 12/20/24 11:32
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2011751.csv	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	0.0474	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	15.6	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	7.82	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	1.37	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	19.8	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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-03	**Date Collected**	: 12/13/24 11:20
Client ID	: SCDOH-DR	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/20/24 11:36
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG2011751.csv	**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	0.0165	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	14.7	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	7.01	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	1.61	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	23.4	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	0.0026	0.0050	0.0021	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2473538
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2473538-04	Date Collected	: 12/13/24 12:43
Client ID	: MW-10S	Date Received	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 12/20/24 11:40
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2011751.csv	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	0.0336	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	5.52	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	0.0036	0.0100	0.0022	J
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	1.89	0.100	0.0153	
7439-96-5	Manganese, Dissolved	0.0047	0.0100	0.0016	J
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	1.20	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	4.84	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	0.0116	0.0050	0.0021	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2473538
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2473538-05	Date Collected	: 12/13/24 12:30
Client ID	: MW-10D	Date Received	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 12/20/24 11:45
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2011751.csv	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	0.0051	0.0100	0.0021	J
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	19.7	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	0.0629	0.0500	0.0090	
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	2.82	0.100	0.0153	
7439-96-5	Manganese, Dissolved	0.0229	0.0100	0.0016	
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	0.810	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	6.42	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 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
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**	: L2473538
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**	: L2473538
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**	: L2473538
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 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1913490-1									
Date Analyzed :	12/19/24 09:24									
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.4890	98							
Antimony	0.500	0.4920	98							
Arsenic	0.500	0.4730	95							
Barium	0.500	0.4820	96							
Beryllium	0.500	0.5090	102							
Cadmium	0.500	0.4780	96							
Calcium	0.500	0.5090	102							
Chromium	0.500	0.4900	98							
Cobalt	0.500	0.4920	98							
Copper	0.500	0.4710	94							
Iron	0.500	0.5110	102							
Lead	0.500	0.4910	98							
Magnesium	0.500	0.4930	99							
Manganese	0.500	0.4940	99							
Nickel	0.500	0.4910	98							
Potassium	5.00	5.1300	103							
Selenium	0.500	0.4830	97							
Silver	0.500	0.4710	94							
Sodium	10.0	9.9100	99							
Thallium	0.500	0.4950	99							
Vanadium	0.500	0.4850	97							
Zinc	0.500	0.4870	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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1913490-3			R1913490-6			R1913490-8		R1913490-10	
Date Analyzed :	12/19/24 09:37			12/19/24 12:02			12/19/24 13:44		12/19/24 14:29	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.5030	101	0.5000	0.498	100	0.522	104	0.498	100
Antimony	0.500	0.5050	101	0.5000	0.496	99	0.504	101	0.505	101
Arsenic	0.500	0.4890	98	0.5000	0.468	94	0.470	94	0.472	94
Barium	0.500	0.4920	98	0.5000	0.487	97	0.512	102	0.497	99
Beryllium	0.500	0.5210	104	0.5000	0.494	99	0.513	103	0.496	99
Cadmium	0.500	0.4960	99	0.5000	0.480	96	0.476	95	0.476	95
Calcium	0.500	0.5260	105	0.5000	0.498	100	0.516	103	0.494	99
Chromium	0.500	0.5040	101	0.5000	0.483	97	0.477	95	0.484	97
Cobalt	0.500	0.5080	102	0.5000	0.496	99	0.502	100	0.501	100
Copper	0.500	0.4850	97	0.5000	0.469	94	0.476	95	0.481	96
Iron	0.500	0.5220	104	0.5000	0.476	95	0.495	99	0.477	95
Lead	0.500	0.5060	101	0.5000	0.495	99	0.499	100	0.500	100
Magnesium	0.500	0.5070	101	0.5000	0.492	98	0.492	98	0.496	99
Manganese	0.500	0.5040	101	0.5000	0.464	93	0.483	97	0.462	92
Nickel	0.500	0.5080	102	0.5000	0.492	98	0.493	99	0.494	99
Potassium	5.00	5.2100	104	5.0000	5.20	104	5.43	109	5.24	105
Selenium	0.500	0.4960	99	0.5000	0.481	96	0.492	98	0.492	98
Silver	0.500	0.4880	98	0.5000	0.471	94	0.474	95	0.475	95
Sodium	10.0	10.3000	103	10.0000	10.2	102	10.7	107	10.3	103
Thallium	0.500	0.5080	102	0.5000	0.497	99	0.500	100	0.502	100
Vanadium	0.500	0.5000	100	0.5000	0.481	96	0.481	96	0.483	97
Zinc	0.500	0.5060	101	0.5000	0.494	99	0.493	99	0.491	98

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1913490-12			R1913490-14		R1913490-16	
Date Analyzed :				12/19/24 16:13			12/19/24 17:40		12/19/24 19:13	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.504	101	0.490	98	0.496	99
Antimony				0.5000	0.510	102	0.517	103	0.508	102
Arsenic				0.5000	0.468	94	0.467	93	0.460	92
Barium				0.5000	0.490	98	0.486	97	0.484	97
Beryllium				0.5000	0.496	99	0.483	97	0.483	97
Cadmium				0.5000	0.478	96	0.476	95	0.473	95
Calcium				0.5000	0.510	102	0.496	99	0.501	100
Chromium				0.5000	0.474	95	0.465	93	0.474	95
Cobalt				0.5000	0.507	101	0.513	103	0.507	101
Copper				0.5000	0.470	94	0.471	94	0.475	95
Iron				0.5000	0.483	97	0.468	94	0.468	94
Lead				0.5000	0.504	101	0.508	102	0.502	100
Magnesium				0.5000	0.491	98	0.486	97	0.494	99
Manganese				0.5000	0.474	95	0.460	92	0.462	92
Nickel				0.5000	0.494	99	0.496	99	0.490	98
Potassium				5.0000	5.15	103	5.08	102	5.10	102
Selenium				0.5000	0.497	99	0.506	101	0.496	99
Silver				0.5000	0.471	94	0.470	94	0.478	96
Sodium				10.0000	10.3	103	10.4	104	10.4	104
Thallium				0.5000	0.496	99	0.501	100	0.492	98
Vanadium				0.5000	0.475	95	0.471	94	0.480	96
Zinc				0.5000	0.503	101	0.504	101	0.502	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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1913490-18			R1913490-20		R1913490-22	
Date Analyzed :				12/19/24 21:09			12/19/24 21:50		12/19/24 23:15	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.500	100	0.516	103	0.501	100
Antimony				0.5000	0.519	104	0.523	105	0.515	103
Arsenic				0.5000	0.462	92	0.466	93	0.464	93
Barium				0.5000	0.484	97	0.499	100	0.489	98
Beryllium				0.5000	0.481	96	0.496	99	0.488	98
Cadmium				0.5000	0.476	95	0.479	96	0.480	96
Calcium				0.5000	0.498	100	0.516	103	0.507	101
Chromium				0.5000	0.454	91	0.453	91	0.456	91
Cobalt				0.5000	0.517	103	0.521	104	0.514	103
Copper				0.5000	0.465	93	0.463	93	0.457	91
Iron				0.5000	0.466	93	0.482	96	0.470	94
Lead				0.5000	0.508	102	0.512	102	0.507	101
Magnesium				0.5000	0.481	96	0.482	96	0.480	96
Manganese				0.5000	0.466	93	0.483	97	0.469	94
Nickel				0.5000	0.493	99	0.498	100	0.496	99
Potassium				5.0000	5.08	102	5.16	103	5.14	103
Selenium				0.5000	0.507	101	0.511	102	0.502	100
Silver				0.5000	0.469	94	0.467	93	0.461	92
Sodium				10.0000	10.6	106	10.8	108	10.5	105
Thallium				0.5000	0.498	100	0.501	100	0.496	99
Vanadium				0.5000	0.465	93	0.463	93	0.462	92
Zinc				0.5000	0.511	102	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 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1913889-1									
Date Analyzed	:	12/20/24 09:26									
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum		0.500	0.4720	94							
Antimony		0.500	0.5040	101							
Arsenic		0.500	0.4680	94							
Barium		0.500	0.4820	96							
Beryllium		0.500	0.5000	100							
Cadmium		0.500	0.5000	100							
Calcium		0.500	0.4940	99							
Chromium		0.500	0.4950	99							
Cobalt		0.500	0.5120	102							
Copper		0.500	0.4910	98							
Iron		0.500	0.5110	102							
Lead		0.500	0.4850	97							
Magnesium		0.500	0.5040	101							
Manganese		0.500	0.4840	97							
Nickel		0.500	0.5130	103							
Potassium		5.00	5.0400	101							
Selenium		0.500	0.4620	92							
Silver		0.500	0.4890	98							
Sodium		10.0	9.6000	96							
Thallium		0.500	0.4870	97							
Vanadium		0.500	0.4910	98							
Zinc		0.500	0.5090	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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1913889-3			R1913889-6			R1913889-8			
Date Analyzed :	12/20/24 09:37			12/20/24 11:14			12/20/24 12:11			
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.4880	98	0.5000	0.468	94	0.471	94		
Antimony	0.500	0.5130	103	0.5000	0.500	100	0.502	100		
Arsenic	0.500	0.4750	95	0.5000	0.462	92	0.463	93		
Barium	0.500	0.5000	100	0.5000	0.481	96	0.483	97		
Beryllium	0.500	0.5130	103	0.5000	0.498	100	0.497	99		
Cadmium	0.500	0.5050	101	0.5000	0.486	97	0.485	97		
Calcium	0.500	0.5190	104	0.5000	0.488	98	0.484	97		
Chromium	0.500	0.5070	101	0.5000	0.488	98	0.490	98		
Cobalt	0.500	0.5210	104	0.5000	0.506	101	0.506	101		
Copper	0.500	0.5070	101	0.5000	0.494	99	0.497	99		
Iron	0.500	0.5220	104	0.5000	0.504	101	0.500	100		
Lead	0.500	0.4950	99	0.5000	0.481	96	0.483	97		
Magnesium	0.500	0.5160	103	0.5000	0.492	98	0.494	99		
Manganese	0.500	0.4960	99	0.5000	0.480	96	0.478	96		
Nickel	0.500	0.5220	104	0.5000	0.507	101	0.506	101		
Potassium	5.00	5.1800	104	5.0000	5.12	102	5.15	103		
Selenium	0.500	0.4740	95	0.5000	0.466	93	0.464	93		
Silver	0.500	0.5070	101	0.5000	0.491	98	0.495	99		
Sodium	10.0	10.2000	102	10.0000	9.86	99	10.0	100		
Thallium	0.500	0.5020	100	0.5000	0.489	98	0.491	98		
Vanadium	0.500	0.5020	100	0.5000	0.486	97	0.488	98		
Zinc	0.500	0.5160	103	0.5000	0.494	99	0.493	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 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
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**	: L2473538
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**	: L2473538
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 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1913490-2		R1913490-7		R1913490-9		R1913490-11		WG2010915-1	
Date Analyzed :	12/19/24 09:30		12/19/24 12:09		12/19/24 13:50		12/19/24 14:35		12/19/24 20:03	
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U	0.0318	U
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U	0.0071	U
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U	0.0019	U
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U	0.0009	U
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.0010	U
Calcium	0.0350	U	0.0350	U	0.0527	J	0.0571	J	0.0487	J
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U	0.0017	U
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U	0.0022	U
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U	0.0090	U
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U	0.0027	U
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U	0.0153	U
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U	0.0016	U
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U	0.0024	U
Potassium	0.237	U	0.237	U	0.237	U	0.237	U	0.237	U
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U	0.0035	U
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U	0.0028	U
Sodium	0.120	U	0.120	U	0.120	U	0.120	U	0.120	U
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U	0.0025	U
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.0020	U
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1913490-4		R1913490-13		R1913490-15		R1913490-17			
Date Analyzed :	12/19/24 09:44		12/19/24 16:19		12/19/24 17:46		12/19/24 19:19			
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	0.00214	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	0.0561	J	0.0521	J	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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1913490-19		R1913490-21		R1913490-23			
Date Analyzed :			12/19/24 21:15		12/19/24 21:57		12/19/24 23:21			
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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1913889-2		R1913889-7		R1913889-9					
Date Analyzed :	12/20/24 09:31		12/20/24 11:18		12/20/24 12:16					
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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	:		

		Initial Calibration Blank	Continuing Calibration Blank(s)			Preparation Blank
Lab ID	:	R1913889-4				
Date Analyzed	:	12/20/24 09:41				

Parameter	mg/l	Q	Q	Q	Q	Q
Aluminum	0.0318	U				
Antimony	0.00710	U				
Arsenic	0.00190	U				
Barium	0.00210	U				
Beryllium	0.000900	U				
Cadmium	0.00100	U				
Calcium	0.0350	U				
Chromium	0.00210	U				
Cobalt	0.00170	U				
Copper	0.00220	U				
Iron	0.00900	U				
Lead	0.00270	U				
Magnesium	0.0153	U				
Manganese	0.00160	U				
Nickel	0.00240	U				
Potassium	0.237	U				
Selenium	0.00350	U				
Silver	0.00280	U				
Sodium	0.120	U				
Thallium	0.00250	U				
Vanadium	0.00200	U				
Zinc	0.00210	U				

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
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 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1913490-5							
Analysis Date :			12/19/24 09:57							
Analyte	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	500		516.	103						
Antimony			0.0166							
Arsenic			0.000119							
Barium			0.00137							
Beryllium			-0.000210							
Cadmium			-0.00267							
Calcium	500		483.	97						
Chromium			-0.000946							
Cobalt			0.000447							
Copper			0.00412							
Iron	200		188.	94						
Lead			0.00822							
Magnesium	500		480.	96						
Manganese			0.00167							
Nickel			0.00516							
Potassium			0.0437							
Selenium			-0.00735							
Silver			-0.0000382							
Sodium			0.0221							
Thallium			-0.00581							
Vanadium			0.000829							
Zinc			0.00134							

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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1913889-5							
Analysis Date :			12/20/24 09:51							
Analyte	**Sol. A**	**Sol. AB**	**Sol. A**	**%R**	**Sol. AB**	**%R**	**Sol. A**	**%R**	**Sol. AB**	**%R**
Aluminum	500		515.	103						
Antimony			-0.00720							
Arsenic			0.000175							
Barium			0.00151							
Beryllium			0.0000414							
Cadmium			-0.00144							
Calcium	500		461.	92						
Chromium			0.0000977							
Cobalt			-0.000566							
Copper			0.000328							
Iron	200		178.	89						
Lead			-0.00347							
Magnesium	500		459.	92						
Manganese			0.00150							
Nickel			0.0000614							
Potassium			0.0126							
Selenium			-0.00143							
Silver			0.000858							
Sodium			0.0184							
Thallium			0.000825							
Vanadium			0.0000379							
Zinc			-0.00136							

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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**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 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2474304-01		
Matrix Spike	: WG2010915-3	**MS Analysis Date**	: 12/19/24 20:43
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	4.93	2	7.30	118					75-125	20
Antimony, Total	ND	0.5	0.575	115					75-125	20
Arsenic, Total	0.005J	0.12	0.134	112					75-125	20
Barium, Total	0.044	2	2.38	117					75-125	20
Beryllium, Total	ND	0.05	0.0570	114					75-125	20
Cadmium, Total	ND	0.053	0.0551	104					75-125	20
Calcium, Total	40.8	10	50.7	99					75-125	20
Chromium, Total	0.007J	0.2	0.197	98					75-125	20
Cobalt, Total	ND	0.5	0.552	110					75-125	20
Copper, Total	0.018	0.25	0.286	107					75-125	20
Iron, Total	1.52	1	2.48	96					75-125	20
Lead, Total	0.029	0.53	0.606	109					75-125	20
Magnesium, Total	5.36	10	15.1	97					75-125	20
Manganese, Total	0.176	0.5	0.707	106					75-125	20
Nickel, Total	0.005J	0.5	0.520	104					75-125	20
Potassium, Total	12.4	10	24.1	117					75-125	20
Selenium, Total	ND	0.12	0.141	118					75-125	20
Silver, Total	ND	0.05	0.0523	105					75-125	20
Sodium, Total	128	10	142.	140 Q					75-125	20
Thallium, Total	ND	0.12	0.126	105					75-125	20
Vanadium, Total	0.0104	0.5	0.506	99					75-125	20
Zinc, Total	0.031	0.5	0.567	107					75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2474304-02		
Matrix Spike	: WG2010915-7	**MS Analysis Date**	: 12/19/24 22:49
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	ND	2	2.25	112					75-125	20
Antimony, Total	ND	0.5	0.542	108					75-125	20
Arsenic, Total	ND	0.12	0.128	107					75-125	20
Barium, Total	0.038	2	2.14	105					75-125	20
Beryllium, Total	ND	0.05	0.0520	104					75-125	20
Cadmium, Total	ND	0.053	0.0552	104					75-125	20
Calcium, Total	43.4	10	53.7	103					75-125	20
Chromium, Total	ND	0.2	0.193	96					75-125	20
Cobalt, Total	ND	0.5	0.537	107					75-125	20
Copper, Total	ND	0.25	0.260	104					75-125	20
Iron, Total	0.016J	1	1.08	108					75-125	20
Lead, Total	ND	0.53	0.563	106					75-125	20
Magnesium, Total	5.57	10	15.3	97					75-125	20
Manganese, Total	0.102	0.5	0.597	99					75-125	20
Nickel, Total	ND	0.5	0.504	101					75-125	20
Potassium, Total	7.92	10	18.7	108					75-125	20
Selenium, Total	ND	0.12	0.133	111					75-125	20
Silver, Total	ND	0.05	0.0521	104					75-125	20
Sodium, Total	104	10	115.	110					75-125	20
Thallium, Total	ND	0.12	0.123	102					75-125	20
Vanadium, Total	ND	0.5	0.481	96					75-125	20
Zinc, Total	0.019	0.5	0.557	108					75-125	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2473538
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: NA	Matrix	: WATER
Lab Sample ID	: NA	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 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 12/19/24 20:36
Dup Sample ID	: WG2010915-4	**DUP Analysis Date**	: 12/19/24 20:49

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Vanadium, Total	0.0104	0.0099J	NC	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 12/19/24 22:42
Dup Sample ID	: WG2010915-8	**DUP Analysis Date**	: 12/19/24 22:55

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Vanadium, Total	ND	ND	NC	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
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 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2010915-2	**LCS Analysis Date**	: 12/19/24 20:10
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	2.26	113.					85-115	20
Antimony, Total	0.500	0.538	108.					85-115	20
Arsenic, Total	0.120	0.122	102.					85-115	20
Barium, Total	2.00	2.23	112.					85-115	20
Beryllium, Total	0.0500	0.0546	109.					85-115	20
Cadmium, Total	0.0530	0.0558	105.					85-115	20
Calcium, Total	10.0	11.1	111.					85-115	20
Chromium, Total	0.200	0.199	100.					85-115	20
Cobalt, Total	0.500	0.551	110.					85-115	20
Copper, Total	0.250	0.276	110.					85-115	20
Iron, Total	1.00	1.05	105.					85-115	20
Lead, Total	0.530	0.580	109.					85-115	20
Magnesium, Total	10.0	10.1	101.					85-115	20
Manganese, Total	0.500	0.530	106.					85-115	20
Nickel, Total	0.500	0.516	103.					85-115	20
Potassium, Total	10.0	11.2	112.					85-115	20
Selenium, Total	0.120	0.131	109.					85-115	20
Silver, Total	0.0500	0.0523	105.					85-115	20
Sodium, Total	10.0	11.3	113.					85-115	20
Thallium, Total	0.120	0.128	107.					85-115	20
Vanadium, Total	0.500	0.508	102.					85-115	20
Zinc, Total	0.500	0.554	111.					85-115	20

Form 8
Serial Dilutions

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**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

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	__
Aluminum	396.15	0.0000000	0.0000020	-0.0000310	-0.0000090	
Antimony	206.83	-0.0000020	0.0000040	-0.0000110	-0.0000050	
Arsenic	189.04	0.0000090	-0.0000010	-0.0000700	0.0000000	
Barium	455.40	-0.0000040	-0.0000020	-0.0000110	-0.0000010	
Beryllium	313.40	-0.0000020	-0.0000020	-0.0000050	0.0000000	
Cadmium	214.44	0.0000000	-0.0000030	0.0000000	-0.0000010	
Calcium	315.89	0.0000780	0.0000000	-0.0000170	0.0000710	
Chromium	267.72	0.0000050	-0.0000020	0.0000120	0.0000000	
Cobalt	228.62	-0.0000120	-0.0000060	-0.0000250	-0.0000020	
Copper	324.75	-0.0000030	-0.0000020	-0.0000040	0.0000110	
Iron	259.94	0.0000180	-0.0000120	0.0000000	-0.0000030	
Lead	220.35	0.0001100	-0.0000010	0.0000180	-0.0000010	
Magnesium	279.08	-0.0000540	-0.0000280	0.0000190	0.0000000	
Manganese	257.61	-0.0000030	-0.0000020	-0.0000080	0.0000020	
Mercury						
Nickel	231.60	-0.0000130	-0.0000050	-0.0000240	-0.0000020	
Potassium	766.49	-0.0012590	-0.0007040	-0.0028490	-0.0002350	
Selenium	196.09	-0.0000200	0.0000000	-0.0000290	-0.0000010	
Silver	328.07	-0.0000040	-0.0000020	-0.0000090	-0.0000010	
Sodium	589.59	-0.0006160	-0.0005220	-0.0020960	-0.0001600	
Thallium	190.86	-0.0000060	-0.0000040	-0.0000050	-0.0000010	
Vanadium	292.40	-0.0000050	-0.0000030	0.0000100	-0.0000020	
Zinc	206.20	0.0002750	0.0000030	-0.0007990	-0.0000040	

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	-0.0022950	-0.0018570
Antimony	206.83	0.0000000	0.0000000	0.0000000	-0.0003900	-0.0000120
Arsenic	189.04	0.0000000	0.0000000	0.0000210	-0.0001780	-0.0001730
Barium	455.40	0.0000000	0.0000000	0.0000000	-0.0002050	-0.0002030
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000860
Cadmium	214.44	0.0000000	0.0000000	0.0000000	-0.0002090	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	-0.0020880	-0.0018790
Chromium	267.72	0.0000000	0.0000000	0.0000000	-0.0002010	-0.0003100
Cobalt	228.62	0.0000000	0.0000000	0.0000000	-0.0004810	-0.0004970
Copper	324.75	0.0000000	0.0000000	0.0000000	-0.0002330	-0.0002260
Iron	259.94	0.0000000	0.0000000	0.0000000	-0.0012310	-0.0009570
Lead	220.35	0.0000000	0.0000000	0.0000000	-0.0001700	-0.0001850
Magnesium	279.08	0.0000000	0.0000000	0.0000000	-0.0022440	-0.0017830
Manganese	257.61	0.0000000	0.0000000	0.0000000	-0.0001950	-0.0002020
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	-0.0005490	-0.0005200
Potassium	766.49	0.0000000	0.0000000	0.0000000	-0.0522980	-0.0517110
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000060	0.0000030
Silver	328.07	0.0000000	0.0000000	0.0000000	-0.0001740	-0.0001560
Sodium	589.59	0.0000000	0.0000000	0.0000000	-0.0417330	-0.0407400
Thallium	190.86	0.0000000	0.0000000	0.0000000	-0.0002650	-0.0002240
Vanadium	292.40	0.0000000	0.0000000	0.0000000	-0.0002090	-0.0002040
Zinc	206.20	0.0000000	0.0000000	0.0000000	-0.0000320	-0.0009250

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	-0.0020320	-0.0005350	-0.0005960	0.0000000	-0.0003930
Antimony	206.83	0.0049920	-0.0001600	-0.0001410	0.0000000	-0.0001780
Arsenic	189.04	0.0002670	-0.0001290	-0.0000570	0.0000000	-0.0000030
Barium	455.40	-0.0002000	-0.0000500	-0.0000660	0.0000000	-0.0000350
Beryllium	313.40	-0.0000900	-0.0000220	-0.0000300	0.0000000	-0.0000110
Cadmium	214.44	-0.0000290	-0.0000520	-0.0000680	0.0000000	-0.0000270
Calcium	315.89	-0.0020720	0.0009940	-0.0005720	0.0000000	-0.0000920
Chromium	267.72	0.0000000	-0.0000480	-0.0000690	0.0000000	0.0001140
Cobalt	228.62	-0.0005870	0.0000000	-0.0001660	0.0000000	-0.0000740
Copper	324.75	-0.0002130	-0.0000490	0.0000000	0.0000000	0.0000300
Iron	259.94	-0.0010370	-0.0002940	-0.0003760	0.0000000	-0.0001890
Lead	220.35	-0.0001960	-0.0003260	0.0002710	0.0000000	0.0000640
Magnesium	279.08	-0.0024620	-0.0005640	-0.0008730	0.0000000	-0.0069760
Manganese	257.61	-0.0002060	-0.0000480	-0.0000750	0.0000000	0.0000000
Mercury						
Nickel	231.60	-0.0005230	-0.0002210	-0.0001810	0.0000000	-0.0000730
Potassium	766.49	-0.0512430	-0.0126240	-0.0178480	0.0000000	-0.0089880
Selenium	196.09	-0.0000520	0.0000530	-0.0000240	0.0000000	0.0003780
Silver	328.07	-0.0001430	-0.0000370	-0.0000450	0.0000000	0.0001940
Sodium	589.59	-0.0407180	-0.0097580	-0.0137660	0.0000000	-0.0070470
Thallium	190.86	-0.0000390	0.0020440	-0.0000840	-0.0000200	0.0003990
Vanadium	292.40	-0.0002210	-0.0000500	-0.0000650	0.0000000	0.0001060
Zinc	206.20	-0.0012900	0.0000070	0.0003430	0.0001200	-0.0001520

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	-0.0000310	0.0000000	0.0000000	0.0000000	0.0009550
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000010	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0003010	0.0000000	0.0000210	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000310	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0003850	-0.0000480	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20					

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	-0.0003720	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	-0.0017200	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0002820	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	-0.0000310	0.0000000	0.0000000	0.0000000	0.0009550
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000010	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0003010	0.0000000	0.0000210	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000310	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0003850	-0.0000480	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20					

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	-0.0003720	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	-0.0017200	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0002820	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	0.0001500	0.0000000	-0.0004550	0.0000000	0.0038670
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000380	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Lead	220.35	0.0001750	0.0000000	0.0002100	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	-0.0000350	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000100	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0017890	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	0.0000000	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	0.0000000	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0000000	0.0000000		
Vanadium	292.40	0.0011610	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

EPA 200.7, EPA 6010D		Linear Dynamic Range					
		All values are in mg/L and are 90% of the established LDR concentration.					
Instrument ID:		Trace 4	Trace 5	Trace 6	Trace 7	Trace 8	Trace 9
2023 Complete		☐	☐	☐	☐	☐	☐
Ag	Silver	36	27	9	13	90	45
Al	Aluminum	900	540	450	900	900	900
As	Arsenic	90	54	90	72	180	90
B	Boron	90	90	9	45	90	54
Ba	Barium	90	27	18	13	135	27
Be	Beryllium	27	36	9	9	11	31
Ca	Calcium	450	900	675	900	900	900
Cd	Cadmium	11	9	9	11	27	18
Co	Cobalt	90	63	45	22	135	90
Cr	Chromium	45	63	9	45	157	90
Cu	Copper	90	54	45	45	90	67
Fe	Iron	630	900	450	450	540	540
K	Potassium	900	900	675	720	900	900
Mg	Magnesium	450	900	360	900	900	900
Mn	Manganese	90	31	90	67	90	90
Mo	Molybdenum	45	36	9	22	67	45
Na	Sodium	675	900	450	405	630	900
Ni	Nickel	90	45	45	22	135	90
Pb	Lead	180	180	90	90	225	90
S	Sulfur	-	90	-	-	-	-
Sb	Antimony	22	45	45	4.5	90	45
Se	Selenium	27	27	45	22	15	45
Si	Silica	45	90	22	22	90	45
Sn	Tin	45	45	13	22	72	45
Sr	Strontium	45	45	9	9	67	45
Ti	Titanium	45	90	9	90	72	45
Tl	Thallium	45	90	45	22	135	45
V	Vanadium	90	90	90	90	112	45
Zn	Zinc	45	27	45	22	63	22

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
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 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2473538-01	12/18/24 18:46	-	50
L2473538-02	12/18/24 18:46	-	50
L2473538-03	12/18/24 18:46	-	50
L2473538-04	12/18/24 18:46	-	50
L2473538-05	12/18/24 18:46	-	50
WG2010915-1	12/18/24 18:46	-	50
WG2010915-2	12/18/24 18:46	-	50
WG2010915-3	12/18/24 18:46	-	50
WG2010915-4	12/18/24 18:46	-	50
WG2010915-7	12/18/24 18:46	-	50
WG2010915-8	12/18/24 18:46	-	50

Form 12
Preparation Log

Client	:	**Roux Env. Eng. & Geology, DPC**	**Lab Number**	:	**L2473538**
Project Name	:	**CORAM MATERIALS**	**Project Number**	:	**2232.0006Y005**
Matrix	:	**WATER**	**Prep Method**	:	**EPA 3005A**

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2473538-01	12/17/24 21:20	-	50
L2473538-02	12/17/24 21:20	-	50
L2473538-03	12/17/24 21:20	-	50
L2473538-04	12/17/24 21:20	-	50
L2473538-05	12/17/24 21:20	-	50

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
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
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
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

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
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
R1913301-20 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

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6	**Analysis Method**	: 19,200.7
Start Date	: 12/19/24 09:24	**End Date**	: 12/19/24 23:21

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
R1913490-1 ICV	1	09:24:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913490-2 ICB	1	09:30:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913490-3 ICV	1	09:37:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913490-4 ICB	1	09:44:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913490-5 ICSA	1	09:57:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913490-6 CCV	1	12:02:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913490-7 CCB	1	12:09:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913490-8 CCV	1	13:44:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913490-9 CCB	1	13:50:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913490-10 CCV	1	14:29:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913490-11 CCB	1	14:35:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913490-12 CCV	1	16:13:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913490-13 CCB	1	16:19:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913490-14 CCV	1	17:40:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913490-15 CCB	1	17:46:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913490-16 CCV	1	19:13:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913490-17 CCB	1	19:19:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2010915-1 BLANK	1	20:03:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2010915-2 LCS	1	20:10:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2473538-02	1	20:16:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2473538-03	1	20:23:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2473538-01	1	20:30:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2010915-3 MS	1	20:43:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2010915-4 DUP	1	20:49:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913490-18 CCV	1	21:09:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913490-19 CCB	1	21:15:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913490-20 CCV	1	21:50:36	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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6	**Analysis Method**	: 19,200.7
Start Date	: 12/19/24 09:24	**End Date**	: 12/19/24 23:21

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
R1913490-21 CCB	1	21:57:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2473538-04	1	22:09:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2473538-05	1	22:15:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2010915-7 MS	1	22:49:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2010915-8 DUP	1	22:55:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913490-22 CCV	1	23:15:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913490-23 CCB	1	23:21:44	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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Analysis Method**	: 19,200.7
Start Date	: 12/20/24 09:26	**End Date**	: 12/20/24 12:16

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
R1913889-1 ICV	1	09:26:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913889-2 ICB	1	09:31:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913889-3 ICV	1	09:37:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913889-4 ICB	1	09:41:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913889-5 ICSA	1	09:51:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913889-6 CCV	1	11:14:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913889-7 CCB	1	11:18:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2473538-01	1	11:27:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2473538-02	1	11:32:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2473538-03	1	11:36:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2473538-04	1	11:40:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2473538-05	1	11:45:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913889-8 CCV	1	12:11:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1913889-9 CCB	1	12:16:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Date Created: 11/04/16
Created By: Jason Hebert
File: PM2960-2
Page: 1

METALS by 200.7, 6010C (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum	7429-90-5	0.1	0.0318	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Antimony	7440-36-0	0.05	0.0071	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Arsenic	7440-38-2	0.005	0.0019	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Barium	7440-39-3	0.01	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Beryllium	7440-41-7	0.005	0.0009	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cadmium	7440-43-9	0.005	0.001	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Calcium	7440-70-2	0.1	0.035	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Chromium	7440-47-3	0.01	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cobalt	7440-48-4	0.02	0.0017	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Copper	7440-50-8	0.01	0.0022	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Iron	7439-89-6	0.05	0.009	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Lead	7439-92-1	0.01	0.0027	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Magnesium	7439-95-4	0.1	0.0153	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Manganese	7439-96-5	0.01	0.0016	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Nickel	7440-02-0	0.025	0.0024	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Potassium	7440-09-7	2.5	0.237	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Selenium	7782-49-2	0.01	0.0035	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Silver	7440-22-4	0.007	0.0028	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Sodium	7440-23-5	2	0.12	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Thallium	7440-28-0	0.02	0.0025	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Vanadium	7440-62-2	0.01	0.002	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Zinc	7440-66-6	0.05	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved

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

Please Note that the information provided in this table is subject to change at anytime at the discretion of the laboratory.

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File: PM2962-1
Page: 1

METALS by 6010C (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum, Total	7429-90-5	4	1.08	mg/kg	48-151		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Antimony, Total	7440-36-0	2	0.152	mg/kg	1-208		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Arsenic, Total	7440-38-2	0.4	0.0832	mg/kg	79-121		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Barium, Total	7440-39-3	0.4	0.0696	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Beryllium, Total	7440-41-7	0.2	0.0132	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Cadmium, Total	7440-43-9	0.4	0.0392	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Calcium, Total	7440-70-2	4	1.4	mg/kg	81-119		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Chromium, Total	7440-47-3	0.4	0.0384	mg/kg	80-120		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Cobalt, Total	7440-48-4	0.8	0.0664	mg/kg	84-115		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Copper, Total	7440-50-8	0.4	0.1032	mg/kg	81-118		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Iron, Total	7439-89-6	2	0.3612	mg/kg	45-155		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Lead, Total	7439-92-1	2	0.1072	mg/kg	81-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Magnesium, Total	7439-95-4	4	0.616	mg/kg	76-124		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Manganese, Total	7439-96-5	0.4	0.0636	mg/kg	81-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Nickel, Total	7440-02-0	1	0.0968	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Potassium, Total	7440-09-7	100	5.76	mg/kg	71-129		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Selenium, Total	7782-49-2	0.8	0.1032	mg/kg	78-122		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Silver, Total	7440-22-4	0.4	0.1132	mg/kg	75-124		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Sodium, Total	7440-23-5	80	1.26	mg/kg	72-127		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Thallium, Total	7440-28-0	0.8	0.126	mg/kg	80-120		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Vanadium, Total	7440-62-2	0.4	0.0812	mg/kg	78-122		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Zinc, Total	7440-66-6	2	0.1172	mg/kg	82-118		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved

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

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: Blank JMF Trace6
Analysis started at: 12/19/2024 9:03:39 AM
Rack: 0
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.2 %	1.2 %	1.0 %	0.5 %	0.1 %	1.0 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 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	-3.2 %	-5.4 %	0.0 %	0.0 %	1.1 %	0.1 %	-17.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0000 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 %	0.4 %	-0.7 %	-0.1 %	-0.1 %	-0.2 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.1 %	0.2 %	-0.3 %	-0.1 %	-0.1 %	-4.2 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	0.0000 ppm
Concentration per Run	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	0.0000 ppm
Concentration RSD	0.0 %	0.0 %	0.0 %	0.1 %	0.0 %	0.0 %	-1.6 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: ICAL
Analysis started at: 12/19/2024 9:10:23 AM
Rack: 0
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0013 ppm	25.3378 ppm	1.0113 ppm	1.0122 ppm	1.0143 ppm	1.0123 ppm	10.0712 ppm
Concentration per Run 2	0.9980 ppm	24.8636 ppm	1.0041 ppm	1.0026 ppm	0.9937 ppm	0.9948 ppm	9.9777 ppm
Concentration per Run 3	1.0007 ppm	24.7986 ppm	0.9847 ppm	0.9852 ppm	0.9920 ppm	0.9928 ppm	9.9511 ppm
Concentration RSD	0.2 %	1.2 %	1.4 %	1.4 %	1.2 %	1.1 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0101 ppm	1.0114 ppm	0.9986 ppm	1.0023 ppm	25.2512 ppm	35.3675 ppm	10.0089 ppm
Concentration per Run 2	1.0088 ppm	1.0054 ppm	1.0011 ppm	0.9954 ppm	24.9063 ppm	34.9111 ppm	9.9950 ppm
Concentration per Run 3	0.9811 ppm	0.9832 ppm	1.0003 ppm	1.0023 ppm	24.8425 ppm	34.7214 ppm	9.9961 ppm
Concentration RSD	1.6 %	1.5 %	0.1 %	0.4 %	0.9 %	0.9 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0113 ppm	1.0069 ppm	25.3181 ppm	1.0113 ppm	1.0098 ppm	1.0123 ppm	1.0147 ppm
Concentration per Run 2	0.9951 ppm	1.0071 ppm	24.8646 ppm	1.0059 ppm	1.0075 ppm	1.0041 ppm	1.0000 ppm
Concentration per Run 3	0.9936 ppm	0.9860 ppm	24.8173 ppm	0.9828 ppm	0.9827 ppm	0.9836 ppm	0.9853 ppm
Concentration RSD	1.0 %	1.2 %	1.1 %	1.5 %	1.5 %	1.5 %	1.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	10.1197 ppm	1.0093 ppm	1.0144 ppm	0.9991 ppm	1.0115 ppm	1.0002 ppm	1.0102 ppm
Concentration per Run 2	10.0341 ppm	1.0083 ppm	0.9942 ppm	1.0002 ppm	1.0037 ppm	1.0007 ppm	1.0099 ppm
Concentration per Run 3	9.8461 ppm	0.9824 ppm	0.9913 ppm	1.0007 ppm	0.9848 ppm	0.9990 ppm	0.9799 ppm
Concentration RSD	1.4 %	1.5 %	1.3 %	0.1 %	1.4 %	0.1 %	1.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	97.9020 %	97.8702 %	100.9268 %	109.4068 %	94.1580 %	100.2683 %	1.0000 ppm
Concentration per Run 1	97.9700 %	97.8561 %	100.1185 %	108.7564 %	93.1240 %	100.3090 %	1.0148 ppm
Concentration per Run 2	97.9502 %	98.1366 %	100.9175 %	109.9031 %	94.0502 %	100.5558 %	0.9941 ppm
Concentration per Run 3	97.7858 %	97.6180 %	101.7444 %	109.5610 %	95.2998 %	99.9402 %	0.9911 ppm
Concentration RSD	0.1 %	0.3 %	0.8 %	0.5 %	1.2 %	0.3 %	1.3 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: ICV
Analysis started at: 12/19/2024 9:24:23 AM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4711 ppm	0.4893 ppm	0.4731 ppm	0.4741 ppm	0.4815 ppm	0.5087 ppm	0.5093 ppm
Concentration per Run 1	0.4716 ppm	0.4997 ppm	0.4732 ppm	0.4759 ppm	0.4919 ppm	0.5202 ppm	0.5163 ppm
Concentration per Run 2	0.4712 ppm	0.4878 ppm	0.4677 ppm	0.4690 ppm	0.4769 ppm	0.5050 ppm	0.5150 ppm
Concentration per Run 3	0.4706 ppm	0.4803 ppm	0.4783 ppm	0.4774 ppm	0.4758 ppm	0.5008 ppm	0.4965 ppm
Recovery Percentage 1	94.222 %	97.851 %	94.611 %	94.824 %	96.307 %	101.741 %	101.852 %
Concentration RSD	0.1 %	2.0 %	1.1 %	0.9 %	1.9 %	2.0 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4779 ppm	0.4918 ppm	0.4895 ppm	0.4714 ppm	0.5113 ppm	5.1311 ppm	0.4931 ppm
Concentration per Run 1	0.4799 ppm	0.4946 ppm	0.4897 ppm	0.4706 ppm	0.5248 ppm	5.2629 ppm	0.4946 ppm
Concentration per Run 2	0.4726 ppm	0.4865 ppm	0.4876 ppm	0.4724 ppm	0.5066 ppm	5.0926 ppm	0.4914 ppm
Concentration per Run 3	0.4812 ppm	0.4942 ppm	0.4913 ppm	0.4712 ppm	0.5025 ppm	5.0378 ppm	0.4932 ppm
Recovery Percentage 1	95.579 %	98.350 %	97.906 %	94.277 %	102.259 %	102.623 %	98.614 %
Concentration RSD	1.0 %	0.9 %	0.4 %	0.2 %	2.3 %	2.3 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4935 ppm	0.4781 ppm	9.9142 ppm	0.4910 ppm	0.4913 ppm	0.4922 ppm	0.4829 ppm
Concentration per Run 1	0.5054 ppm	0.4791 ppm	10.1220 ppm	0.4937 ppm	0.4942 ppm	0.4939 ppm	0.4820 ppm
Concentration per Run 2	0.4888 ppm	0.4723 ppm	9.8229 ppm	0.4853 ppm	0.4853 ppm	0.4871 ppm	0.4801 ppm
Concentration per Run 3	0.4864 ppm	0.4828 ppm	9.7978 ppm	0.4941 ppm	0.4943 ppm	0.4957 ppm	0.4865 ppm
Recovery Percentage 1	98.703 %	95.613 %	99.142 %	98.207 %	98.250 %	98.448 %	96.573 %
Concentration RSD	2.1 %	1.1 %	1.8 %	1.0 %	1.1 %	0.9 %	0.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.4887 ppm	0.4840 ppm	0.5032 ppm	0.4948 ppm	0.4952 ppm	0.4855 ppm	0.4874 ppm
Concentration per Run 1	5.5202 ppm	0.4853 ppm	0.5145 ppm	0.4946 ppm	0.4970 ppm	0.4859 ppm	0.4901 ppm
Concentration per Run 2	5.4251 ppm	0.4805 ppm	0.4983 ppm	0.4943 ppm	0.4884 ppm	0.4850 ppm	0.4823 ppm
Concentration per Run 3	5.5207 ppm	0.4863 ppm	0.4967 ppm	0.4957 ppm	0.5002 ppm	0.4856 ppm	0.4898 ppm
Recovery Percentage 1	104.546 %	96.809 %	100.636 %	98.965 %	99.036 %	97.098 %	97.483 %
Concentration RSD	1.0 %	0.6 %	2.0 %	0.1 %	1.2 %	0.1 %	0.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.7990 %	100.2584 %	102.7310 %	109.1876 %	98.6622 %	102.5384 %	0.4890 ppm
Concentration per Run 1	98.1913 %	100.0725 %	102.5680 %	106.7644 %	98.2804 %	102.4056 %	0.4999 ppm
Concentration per Run 2	98.8141 %	100.5420 %	103.3717 %	110.0893 %	99.7612 %	102.6587 %	0.4832 ppm
Concentration per Run 3	99.3917 %	100.1607 %	102.2532 %	110.7090 %	97.9452 %	102.5509 %	0.4838 ppm
Recovery Percentage 1							97.793 %
Concentration RSD	0.6 %	0.2 %	0.6 %	1.9 %	1.0 %	0.1 %	1.9 %

LabBook: WG2011242_12192024T6.imexp

Sample: ICB
Analysis started at: 12/19/2024 9:30:48 AM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0022 ppm	0.0009 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	-0.0060 ppm
Concentration per Run 1	0.0002 ppm	0.0000 ppm	0.0010 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	-0.0100 ppm
Concentration per Run 2	0.0001 ppm	-0.0055 ppm	0.0012 ppm	0.0014 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	-0.0012 ppm	0.0005 ppm	0.0009 ppm	-0.0001 ppm	0.0000 ppm	-0.0079 ppm
Recovery Percentage 1	1.642 %	-2.242 %	17.875 %	3.621 %	0.027 %	-0.311 %	-5.954 %
Concentration RSD	106.5 %	127.3 %	36.3 %	26.4 %	3,789.2 %	363.7 %	89.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0003 ppm	-0.0015 ppm	0.0147 ppm	-0.0010 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0002 ppm	-0.0020 ppm	0.0281 ppm	-0.0017 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0003 ppm	-0.0005 ppm	-0.0011 ppm	-0.0012 ppm	-0.0008 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0003 ppm	-0.0013 ppm	0.0173 ppm	-0.0006 ppm
Recovery Percentage 1	0.535 %	-0.114 %	1.376 %	-3.328 %	-2.910 %	0.589 %	-1.035 %
Concentration RSD	174.0 %	475.7 %	99.6 %	34.5 %	33.0 %	100.8 %	56.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0002 ppm	0.0007 ppm	-0.0044 ppm	0.0001 ppm	0.0007 ppm	0.0011 ppm	-0.0016 ppm
Concentration per Run 1	-0.0001 ppm	0.0008 ppm	-0.0077 ppm	0.0002 ppm	0.0012 ppm	0.0005 ppm	-0.0009 ppm
Concentration per Run 2	0.0001 ppm	0.0009 ppm	0.0039 ppm	0.0000 ppm	0.0004 ppm	0.0015 ppm	-0.0026 ppm
Concentration per Run 3	-0.0006 ppm	0.0006 ppm	-0.0095 ppm	0.0000 ppm	0.0007 ppm	0.0013 ppm	-0.0013 ppm
Recovery Percentage 1	-2.139 %	1.463 %	-0.222 %	0.319 %	7.463 %	2.195 %	-16.259 %
Concentration RSD	157.7 %	21.1 %	165.1 %	177.0 %	50.8 %	50.7 %	55.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0005 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0009 ppm	0.0000 ppm	-0.0010 ppm
Concentration per Run 1	0.0002 ppm	-0.0004 ppm	0.0001 ppm	0.0002 ppm	0.0009 ppm	0.0000 ppm	-0.0010 ppm
Concentration per Run 2	-0.0008 ppm	0.0002 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	-0.0009 ppm
Concentration per Run 3	-0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0018 ppm	0.0001 ppm	-0.0011 ppm
Recovery Percentage 1	-0.093 %	-0.052 %	0.781 %	1.192 %	4.332 %	0.490 %	-20.077 %
Concentration RSD	119.5 %	1,239.2 %	75.6 %	50.6 %	112.0 %	98.2 %	9.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	97.7612 %	100.4665 %	103.3804 %	99.2457 %	101.9995 %	100.6839 %	-0.0010 ppm
Concentration per Run 1	93.9204 %	100.3572 %	102.4806 %	91.6670 %	100.6677 %	100.3768 %	-0.0006 ppm
Concentration per Run 2	99.3501 %	100.5943 %	102.5702 %	101.1809 %	101.5835 %	100.8531 %	-0.0014 ppm
Concentration per Run 3	100.0130 %	100.4481 %	105.0903 %	104.8891 %	103.7474 %	100.8218 %	-0.0010 ppm
Recovery Percentage 1							-10.186 %
Concentration RSD	3.4 %	0.1 %	1.4 %	6.9 %	1.6 %	0.3 %	35.9 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: ICV
Analysis started at: 12/19/2024 9:37:35 AM
Rack: 0
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4883 ppm	0.5033 ppm	0.4894 ppm	0.4861 ppm	0.4923 ppm	0.5212 ppm	0.5262 ppm
Concentration per Run 1	0.4884 ppm	0.5141 ppm	0.4910 ppm	0.4878 ppm	0.5021 ppm	0.5312 ppm	0.5351 ppm
Concentration per Run 2	0.4887 ppm	0.4986 ppm	0.4866 ppm	0.4847 ppm	0.4882 ppm	0.5170 ppm	0.5187 ppm
Concentration per Run 3	0.4878 ppm	0.4971 ppm	0.4905 ppm	0.4859 ppm	0.4865 ppm	0.5155 ppm	0.5249 ppm
Recovery Percentage 1	97.656 %	100.655 %	97.879 %	97.226 %	98.452 %	104.246 %	105.246 %
Concentration RSD	0.1 %	1.9 %	0.5 %	0.3 %	1.7 %	1.7 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4960 ppm	0.5083 ppm	0.5045 ppm	0.4855 ppm	0.5223 ppm	5.2134 ppm	0.5067 ppm
Concentration per Run 1	0.4974 ppm	0.5107 ppm	0.5048 ppm	0.4852 ppm	0.5281 ppm	5.3246 ppm	0.5093 ppm
Concentration per Run 2	0.4955 ppm	0.5066 ppm	0.5042 ppm	0.4871 ppm	0.5202 ppm	5.1731 ppm	0.5071 ppm
Concentration per Run 3	0.4951 ppm	0.5074 ppm	0.5045 ppm	0.4842 ppm	0.5187 ppm	5.1425 ppm	0.5037 ppm
Recovery Percentage 1	99.199 %	101.653 %	100.901 %	97.100 %	104.464 %	104.268 %	101.337 %
Concentration RSD	0.2 %	0.4 %	0.1 %	0.3 %	1.0 %	1.9 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5044 ppm	0.4944 ppm	10.3055 ppm	0.5083 ppm	0.5066 ppm	0.5054 ppm	0.4960 ppm
Concentration per Run 1	0.5145 ppm	0.4939 ppm	10.5025 ppm	0.5098 ppm	0.5091 ppm	0.5077 ppm	0.4983 ppm
Concentration per Run 2	0.5007 ppm	0.4936 ppm	10.2246 ppm	0.5070 ppm	0.5047 ppm	0.5035 ppm	0.4926 ppm
Concentration per Run 3	0.4979 ppm	0.4958 ppm	10.1894 ppm	0.5081 ppm	0.5060 ppm	0.5051 ppm	0.4971 ppm
Recovery Percentage 1	100.874 %	98.884 %	103.055 %	101.657 %	101.314 %	101.087 %	99.199 %
Concentration RSD	1.8 %	0.2 %	1.7 %	0.3 %	0.4 %	0.4 %	0.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.6874 ppm	0.5076 ppm	0.5099 ppm	0.5083 ppm	0.5083 ppm	0.5004 ppm	0.5057 ppm
Concentration per Run 1	5.7112 ppm	0.5097 ppm	0.5200 ppm	0.5092 ppm	0.5111 ppm	0.5007 ppm	0.5073 ppm
Concentration per Run 2	5.6605 ppm	0.5051 ppm	0.5055 ppm	0.5077 ppm	0.5072 ppm	0.5000 ppm	0.5061 ppm
Concentration per Run 3	5.6905 ppm	0.5080 ppm	0.5042 ppm	0.5080 ppm	0.5066 ppm	0.5003 ppm	0.5036 ppm
Recovery Percentage 1	108.331 %	101.524 %	101.977 %	101.661 %	101.665 %	100.071 %	101.134 %
Concentration RSD	0.4 %	0.5 %	1.7 %	0.2 %	0.5 %	0.1 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.7711 %	99.6721 %	102.1495 %	109.8622 %	98.0043 %	102.0418 %	0.5037 ppm
Concentration per Run 1	99.0082 %	99.7106 %	102.1196 %	108.1986 %	97.7850 %	102.0827 %	0.5144 ppm
Concentration per Run 2	99.2006 %	99.3412 %	102.7363 %	110.9893 %	98.5984 %	101.6553 %	0.4989 ppm
Concentration per Run 3	98.1046 %	99.9646 %	101.5927 %	110.3986 %	97.6294 %	102.3873 %	0.4979 ppm
Recovery Percentage 1							100.743 %
Concentration RSD	0.6 %	0.3 %	0.6 %	1.3 %	0.5 %	0.4 %	1.8 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: ICB
Analysis started at: 12/19/2024 9:44:03 AM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0024 ppm	0.0010 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 1	-0.0001 ppm	-0.0030 ppm	0.0005 ppm	0.0008 ppm	0.0002 ppm	0.0000 ppm	0.0019 ppm
Concentration per Run 2	0.0001 ppm	-0.0046 ppm	0.0014 ppm	0.0007 ppm	0.0000 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	0.0009 ppm	0.0013 ppm	-0.0002 ppm	0.0000 ppm	-0.0033 ppm
Recovery Percentage 1	-0.053 %	-2.408 %	19.100 %	3.092 %	0.128 %	-0.880 %	-0.376 %
Concentration RSD	2,026.8 %	105.1 %	49.6 %	33.1 %	1,550.9 %	73.8 %	695.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0016 ppm	-0.0094 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0027 ppm	0.0008 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	-0.0018 ppm	0.0051 ppm	-0.0015 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	-0.0030 ppm	-0.0361 ppm	0.0001 ppm
Recovery Percentage 1	-0.195 %	-0.180 %	-0.076 %	-1.492 %	-3.246 %	-0.377 %	-0.177 %
Concentration RSD	218.1 %	221.4 %	866.2 %	58.5 %	90.0 %	245.0 %	652.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0003 ppm	0.0007 ppm	-0.0024 ppm	0.0000 ppm	0.0006 ppm	0.0007 ppm	-0.0014 ppm
Concentration per Run 1	0.0000 ppm	0.0008 ppm	-0.0026 ppm	0.0001 ppm	0.0005 ppm	0.0015 ppm	-0.0011 ppm
Concentration per Run 2	-0.0004 ppm	0.0005 ppm	0.0013 ppm	-0.0001 ppm	0.0012 ppm	0.0002 ppm	-0.0016 ppm
Concentration per Run 3	-0.0004 ppm	0.0008 ppm	-0.0060 ppm	0.0002 ppm	0.0000 ppm	0.0004 ppm	-0.0013 ppm
Recovery Percentage 1	-2.660 %	1.411 %	-0.121 %	0.184 %	5.833 %	1.410 %	-13.651 %
Concentration RSD	100.7 %	22.4 %	151.8 %	382.3 %	102.1 %	97.2 %	18.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0009 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0008 ppm	0.0000 ppm	-0.0010 ppm
Concentration per Run 1	-0.0007 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0021 ppm	-0.0001 ppm	-0.0012 ppm
Concentration per Run 2	-0.0001 ppm	0.0004 ppm	0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0002 ppm	-0.0009 ppm
Concentration per Run 3	-0.0018 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	-0.0002 ppm	-0.0010 ppm
Recovery Percentage 1	-0.171 %	0.517 %	0.312 %	0.114 %	3.779 %	-0.484 %	-20.294 %
Concentration RSD	98.8 %	45.7 %	174.7 %	1,304.2 %	151.8 %	452.4 %	12.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.7682 %	100.6488 %	103.0853 %	100.7339 %	101.5446 %	100.9150 %	0.0002 ppm
Concentration per Run 1	99.5222 %	101.2040 %	105.3331 %	95.5259 %	103.6166 %	101.1844 %	0.0000 ppm
Concentration per Run 2	99.9994 %	100.3400 %	101.7793 %	102.2796 %	100.0857 %	100.5655 %	-0.0003 ppm
Concentration per Run 3	99.7831 %	100.4024 %	102.1435 %	104.3962 %	100.9313 %	100.9952 %	0.0007 ppm
Recovery Percentage 1							1.559 %
Concentration RSD	0.2 %	0.5 %	1.9 %	4.6 %	1.8 %	0.3 %	318.2 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: LLOQ RL Check
Analysis started at: 12/19/2024 9:50:50 AM
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0053 ppm	0.1040 ppm	**0.0066 ppm**	0.0303 ppm	0.0102 ppm	0.0054 ppm	0.1055 ppm
Concentration per Run 1	0.0054 ppm	0.1060 ppm	0.0068 ppm	0.0302 ppm	0.0103 ppm	0.0055 ppm	0.1105 ppm
Concentration per Run 2	0.0053 ppm	0.1032 ppm	0.0064 ppm	0.0302 ppm	0.0102 ppm	0.0053 ppm	0.1082 ppm
Concentration per Run 3	0.0051 ppm	0.1026 ppm	0.0067 ppm	0.0304 ppm	0.0099 ppm	0.0052 ppm	0.0978 ppm
Recovery Percentage 1	105.303 %	103.960 %	132.886 %	100.883 %	101.719 %	107.369 %	105.486 %
Concentration RSD	2.9 %	1.7 %	**2.9 %**	0.4 %	2.0 %	2.7 %	6.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0041 ppm	0.0102 ppm	0.0102 ppm	0.0098 ppm	0.0532 ppm	2.6399 ppm	0.1036 ppm
Concentration per Run 1	0.0041 ppm	0.0101 ppm	0.0105 ppm	0.0097 ppm	0.0555 ppm	2.7370 ppm	0.1052 ppm
Concentration per Run 2	0.0042 ppm	0.0102 ppm	0.0100 ppm	0.0098 ppm	0.0511 ppm	2.6350 ppm	0.1030 ppm
Concentration per Run 3	0.0041 ppm	0.0104 ppm	0.0101 ppm	0.0100 ppm	0.0532 ppm	2.5478 ppm	0.1025 ppm
Recovery Percentage 1	103.285 %	102.320 %	101.997 %	98.122 %	106.496 %	105.597 %	103.587 %
Concentration RSD	1.0 %	1.4 %	2.6 %	1.5 %	4.1 %	3.6 %	1.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0107 ppm	0.0507 ppm	2.0793 ppm	0.0203 ppm	0.0107 ppm	0.0513 ppm	0.0088 ppm
Concentration per Run 1	0.0108 ppm	0.0508 ppm	2.1381 ppm	0.0205 ppm	0.0109 ppm	0.0506 ppm	0.0075 ppm
Concentration per Run 2	0.0103 ppm	0.0509 ppm	2.0785 ppm	0.0202 ppm	0.0107 ppm	0.0521 ppm	0.0099 ppm
Concentration per Run 3	0.0109 ppm	0.0504 ppm	2.0214 ppm	0.0201 ppm	0.0106 ppm	0.0512 ppm	0.0090 ppm
Recovery Percentage 1	106.706 %	101.409 %	103.966 %	101.517 %	107.457 %	102.594 %	87.942 %
Concentration RSD	2.7 %	0.6 %	2.8 %	1.0 %	1.6 %	1.5 %	13.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.5289 ppm	0.0496 ppm	0.0104 ppm	0.0104 ppm	**0.0212 ppm**	0.0102 ppm	0.0042 ppm
Concentration per Run 1	0.5284 ppm	0.0491 ppm	0.0106 ppm	0.0107 ppm	0.0217 ppm	0.0099 ppm	0.0042 ppm
Concentration per Run 2	0.5321 ppm	0.0499 ppm	0.0103 ppm	0.0103 ppm	0.0204 ppm	0.0101 ppm	0.0043 ppm
Concentration per Run 3	0.5262 ppm	0.0496 ppm	0.0101 ppm	0.0102 ppm	0.0215 ppm	0.0104 ppm	0.0041 ppm
Recovery Percentage 1	105.774 %	99.100 %	103.541 %	103.842 %	106.041 %	101.714 %	84.291 %
Concentration RSD	0.6 %	0.9 %	2.2 %	2.4 %	3.2 %	2.5 %	1.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.7314 %	101.3644 %	103.2216 %	108.1110 %	100.3440 %	103.1598 %	0.0105 ppm
Concentration per Run 1	100.1686 %	101.3684 %	103.4752 %	105.5776 %	100.3082 %	103.1407 %	0.0105 ppm
Concentration per Run 2	99.3211 %	101.4978 %	102.7733 %	108.6173 %	99.9078 %	103.3167 %	0.0106 ppm
Concentration per Run 3	99.7045 %	101.2269 %	103.4161 %	110.1381 %	100.8160 %	103.0221 %	0.0103 ppm
Recovery Percentage 1							104.646 %
Concentration RSD	0.4 %	0.1 %	0.4 %	2.1 %	0.5 %	0.1 %	1.7 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: ICSA
Analysis started at: 12/19/2024 9:57:34 AM
Rack: 0
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	515.6391 [SIC 500]	0.0001 ppm	-0.0171 ppm	0.0014 ppm	-0.0002 ppm	482.6460 ppm
Concentration per Run 1	0.0004 ppm	509.3129 ppm	0.0013 ppm	-0.0170 ppm	0.0014 ppm	-0.0002 ppm	480.2357 ppm
Concentration per Run 2	-0.0002 ppm	519.8010 ppm	0.0000 ppm	-0.0176 ppm	0.0014 ppm	-0.0002 ppm	482.2555 ppm
Concentration per Run 3	-0.0003 ppm	517.8033 ppm	-0.0009 ppm	-0.0166 ppm	0.0013 ppm	-0.0002 ppm	485.4468 ppm
Recovery Percentage 1	-0.545 %	515,639.060 %	2.385 %	-57.018 %	13.717 %	-4.203 %	482,645.993 %
Concentration RSD	934.8 %	1.1 %	905.9 %	2.9 %	3.6 %	14.5 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0027 ppm	0.0004 ppm	-0.0009 ppm	0.0041 ppm	187.9872 ppm	0.0437 ppm	480.2011 ppm
Concentration per Run 1	-0.0027 ppm	0.0003 ppm	-0.0012 ppm	0.0042 ppm	186.6829 ppm	0.0122 ppm	490.9523 ppm
Concentration per Run 2	-0.0027 ppm	0.0006 ppm	-0.0009 ppm	0.0043 ppm	188.2611 ppm	0.0593 ppm	477.0930 ppm
Concentration per Run 3	-0.0026 ppm	0.0005 ppm	-0.0007 ppm	0.0039 ppm	189.0177 ppm	0.0596 ppm	472.5579 ppm
Recovery Percentage 1	-66.766 %	2.237 %	-9.461 %	41.232 %	375,974.465 %	1.747 %	480,201.054 %
Concentration RSD	3.0 %	31.5 %	26.7 %	5.3 %	0.6 %	62.5 %	2.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0017 ppm	-0.0022 ppm	0.0221 ppm	0.0052 ppm	0.0082 ppm	0.0166 ppm	-0.0074 ppm
Concentration per Run 1	0.0016 ppm	-0.0015 ppm	0.0272 ppm	0.0051 ppm	0.0074 ppm	0.0169 ppm	-0.0101 ppm
Concentration per Run 2	0.0017 ppm	-0.0022 ppm	0.0252 ppm	0.0056 ppm	0.0086 ppm	0.0171 ppm	-0.0066 ppm
Concentration per Run 3	0.0017 ppm	-0.0027 ppm	0.0140 ppm	0.0047 ppm	0.0087 ppm	0.0159 ppm	-0.0054 ppm
Recovery Percentage 1	16.697 %	-4.302 %	1.106 %	20.645 %	82.176 %	33.293 %	-73.505 %
Concentration RSD	3.8 %	27.3 %	32.1 %	9.1 %	8.5 %	3.9 %	32.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0051 ppm	0.0031 ppm	0.0010 ppm	0.0009 ppm	-0.0058 ppm	0.0008 ppm	0.0013 ppm
Concentration per Run 1	-0.0056 ppm	0.0038 ppm	0.0009 ppm	0.0011 ppm	-0.0007 ppm	0.0010 ppm	0.0014 ppm
Concentration per Run 2	-0.0058 ppm	0.0037 ppm	0.0011 ppm	0.0006 ppm	-0.0067 ppm	0.0008 ppm	0.0014 ppm
Concentration per Run 3	-0.0039 ppm	0.0018 ppm	0.0011 ppm	0.0010 ppm	-0.0101 ppm	0.0007 ppm	0.0012 ppm
Recovery Percentage 1	-1.020 %	6.237 %	10.440 %	8.839 %	-29.061 %	8.288 %	26.740 %
Concentration RSD	19.8 %	35.5 %	11.5 %	27.9 %	82.4 %	18.6 %	8.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	93.2956 %	86.7370 %	89.6034 %	104.9440 %	77.1097 %	88.7587 %	-0.0016 ppm
Concentration per Run 1	94.2000 %	83.1813 %	89.7115 %	106.0990 %	77.4504 %	86.3531 %	-0.0014 ppm
Concentration per Run 2	92.9157 %	88.4188 %	89.4525 %	104.6260 %	76.9085 %	89.8268 %	-0.0021 ppm
Concentration per Run 3	92.7712 %	88.6109 %	89.6462 %	104.1070 %	76.9703 %	90.0963 %	-0.0013 ppm
Recovery Percentage 1							-15.800 %
Concentration RSD	0.8 %	3.6 %	0.2 %	1.0 %	0.4 %	2.4 %	27.7 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: SIC Cr Mn V Ti
Analysis started at: 12/19/2024 10:06:30 AM
Rack: 0
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0007 ppm	-0.0028 ppm	-0.0023 ppm	0.0017 ppm	0.0000 ppm	-0.0011 ppm	0.0045 ppm
Concentration per Run 1	0.0010 ppm	0.0036 ppm	-0.0025 ppm	0.0017 ppm	0.0000 ppm	-0.0012 ppm	0.0024 ppm
Concentration per Run 2	0.0007 ppm	-0.0041 ppm	-0.0024 ppm	0.0015 ppm	0.0000 ppm	-0.0010 ppm	0.0055 ppm
Concentration per Run 3	0.0003 ppm	-0.0079 ppm	-0.0019 ppm	0.0020 ppm	0.0000 ppm	-0.0012 ppm	0.0055 ppm
Recovery Percentage 1	9.636 %	-2.780 %	-45.582 %	5.769 %	0.434 %	-22.600 %	4.489 %
Concentration RSD	45.6 %	211.6 %	12.6 %	13.9 %	14.1 %	11.6 %	40.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0029 ppm	-0.0101 ppm	20.1727 ppm	-0.0039 ppm	-0.0084 ppm	-0.0255 ppm	-0.0138 ppm
Concentration per Run 1	-0.0029 ppm	-0.0100 ppm	20.3012 ppm	-0.0040 ppm	-0.0083 ppm	-0.0037 ppm	-0.0126 ppm
Concentration per Run 2	-0.0029 ppm	-0.0103 ppm	20.1024 ppm	-0.0038 ppm	-0.0077 ppm	-0.0381 ppm	-0.0164 ppm
Concentration per Run 3	-0.0029 ppm	-0.0100 ppm	20.1144 ppm	-0.0038 ppm	-0.0090 ppm	-0.0346 ppm	-0.0123 ppm
Recovery Percentage 1	-72.084 %	-50.660 %	201,726.894 %	-38.916 %	-16.715 %	-1.019 %	-13.753 %
Concentration RSD	1.0 %	1.9 %	0.6 %	2.8 %	7.6 %	74.3 %	16.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	20.7267 [SIC 20]	-0.0030 ppm	0.0105 ppm	0.0001 ppm	-0.0005 ppm	-0.0221 ppm	-0.0010 ppm
Concentration per Run 1	20.8856 ppm	-0.0030 ppm	0.0112 ppm	-0.0002 ppm	-0.0008 ppm	-0.0222 ppm	-0.0009 ppm
Concentration per Run 2	20.6832 ppm	-0.0031 ppm	0.0098 ppm	0.0003 ppm	-0.0008 ppm	-0.0216 ppm	-0.0003 ppm
Concentration per Run 3	20.6113 ppm	-0.0030 ppm	0.0105 ppm	0.0002 ppm	0.0000 ppm	-0.0223 ppm	-0.0019 ppm
Recovery Percentage 1	207,266.907 %	-6.055 %	0.523 %	0.329 %	-5.429 %	-44.110 %	-10.288 %
Concentration RSD	0.7 %	2.3 %	6.7 %	337.0 %	81.0 %	1.8 %	78.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0169 ppm	-0.0013 ppm	0.0004 ppm	20.2665 ppm	-0.0014 ppm	10.4132 [SIC 10]	-0.0072 ppm
Concentration per Run 1	0.0205 ppm	-0.0017 ppm	0.0004 ppm	20.2040 ppm	-0.0019 ppm	10.3987 ppm	-0.0070 ppm
Concentration per Run 2	0.0156 ppm	-0.0011 ppm	0.0004 ppm	20.3488 ppm	-0.0012 ppm	10.4187 ppm	-0.0073 ppm
Concentration per Run 3	0.0144 ppm	-0.0011 ppm	0.0004 ppm	20.2466 ppm	-0.0010 ppm	10.4223 ppm	-0.0073 ppm
Recovery Percentage 1	3.371 %	-2.564 %	4.287 %	202,664.599 %	-6.766 %	104,131.998 %	-144.110 %
Concentration RSD	19.0 %	26.8 %	5.3 %	0.4 %	37.6 %	0.1 %	2.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	97.9717 %	100.2940 %	102.0617 %	109.7466 %	96.0703 %	101.8079 %	-0.0035 ppm
Concentration per Run 1	98.1026 %	100.5847 %	102.5625 %	109.3648 %	96.4373 %	102.0125 %	-0.0038 ppm
Concentration per Run 2	97.8727 %	100.1467 %	101.9775 %	109.6575 %	96.0753 %	101.6812 %	-0.0037 ppm
Concentration per Run 3	97.9398 %	100.1505 %	101.6451 %	110.2175 %	95.6983 %	101.7301 %	-0.0031 ppm
Recovery Percentage 1							-35.388 %
Concentration RSD	0.1 %	0.3 %	0.5 %	0.4 %	0.4 %	0.2 %	10.6 %

LabBook: WG2011242_12192024T6.imexp

Sample: zLLOQ 0.01ppm
Analysis started at: 12/19/2024 10:18:02 AM
Rack: 1
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0100 ppm	0.0076 ppm	0.0098 ppm	0.0100 ppm	0.0103 ppm	0.0108 ppm	0.0183 ppm
Concentration per Run 1	0.0099 ppm	0.0117 ppm	0.0100 ppm	0.0100 ppm	0.0109 ppm	0.0113 ppm	0.0159 ppm
Concentration per Run 2	0.0100 ppm	0.0104 ppm	0.0102 ppm	0.0102 ppm	0.0102 ppm	0.0106 ppm	0.0216 ppm
Concentration per Run 3	0.0101 ppm	0.0008 ppm	0.0091 ppm	0.0099 ppm	0.0099 ppm	0.0104 ppm	0.0175 ppm
Recovery Percentage 1	0.000 %	0.000 %	97.827 %	100.078 %	103.499 %	0.000 %	0.000 %
Concentration RSD	0.9 %	78.4 %	6.5 %	1.4 %	5.1 %	4.3 %	16.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0098 ppm	0.0102 ppm	0.0100 ppm	0.0094 ppm	0.0130 ppm	0.1193 ppm	0.0116 ppm
Concentration per Run 1	0.0098 ppm	0.0103 ppm	0.0098 ppm	0.0093 ppm	0.0134 ppm	0.1219 ppm	0.0129 ppm
Concentration per Run 2	0.0099 ppm	0.0101 ppm	0.0102 ppm	0.0096 ppm	0.0125 ppm	0.1292 ppm	0.0115 ppm
Concentration per Run 3	0.0098 ppm	0.0103 ppm	0.0100 ppm	0.0094 ppm	0.0130 ppm	0.1068 ppm	0.0104 ppm
Recovery Percentage 1	0.000 %	102.493 %	99.936 %	94.440 %	0.000 %	0.000 %	0.000 %
Concentration RSD	0.4 %	1.1 %	2.2 %	1.5 %	3.7 %	9.6 %	11.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0103 ppm	0.0100 ppm	0.2158 ppm	0.0101 ppm	0.0108 ppm	0.0109 ppm	0.0088 ppm
Concentration per Run 1	0.0103 ppm	0.0099 ppm	0.2186 ppm	0.0100 ppm	0.0110 ppm	0.0113 ppm	0.0097 ppm
Concentration per Run 2	0.0106 ppm	0.0099 ppm	0.2212 ppm	0.0101 ppm	0.0112 ppm	0.0106 ppm	0.0090 ppm
Concentration per Run 3	0.0099 ppm	0.0101 ppm	0.2075 ppm	0.0102 ppm	0.0102 ppm	0.0108 ppm	0.0078 ppm
Recovery Percentage 1	102.730 %	99.596 %	0.000 %	100.909 %	107.896 %	0.000 %	88.483 %
Concentration RSD	3.8 %	1.2 %	3.4 %	1.0 %	5.1 %	3.4 %	11.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.1144 ppm	0.0104 ppm	0.0109 ppm	0.0106 ppm	0.0112 ppm	0.0101 ppm	0.0093 ppm
Concentration per Run 1	0.1149 ppm	0.0102 ppm	0.0115 ppm	0.0107 ppm	0.0115 ppm	0.0101 ppm	0.0095 ppm
Concentration per Run 2	0.1136 ppm	0.0104 ppm	0.0108 ppm	0.0106 ppm	0.0118 ppm	0.0102 ppm	0.0092 ppm
Concentration per Run 3	0.1146 ppm	0.0106 ppm	0.0106 ppm	0.0106 ppm	0.0101 ppm	0.0101 ppm	0.0093 ppm
Recovery Percentage 1	0.000 %	104.097 %	109.382 %	106.456 %	111.628 %	101.102 %	93.240 %
Concentration RSD	0.6 %	1.9 %	4.4 %	0.4 %	8.1 %	0.6 %	1.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.2102 %	102.1411 %	104.0467 %	104.9976 %	100.6179 %	103.0303 %	0.0114 ppm
Concentration per Run 1	98.4917 %	102.2032 %	104.5448 %	100.5554 %	100.8311 %	103.0190 %	0.0113 ppm
Concentration per Run 2	99.3960 %	101.8982 %	104.0731 %	105.9772 %	100.4511 %	102.7784 %	0.0114 ppm
Concentration per Run 3	99.7427 %	102.3220 %	103.5223 %	108.4602 %	100.5714 %	103.2935 %	0.0115 ppm
Recovery Percentage 1							113.969 %
Concentration RSD	0.7 %	0.2 %	0.5 %	3.9 %	0.2 %	0.3 %	0.9 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: LLOQ 0.005ppm As
Analysis started at: 12/19/2024 10:24:45 AM
Rack: 1
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0051 ppm	**0.0006 ppm**	0.0050 ppm	0.0051 ppm	0.0052 ppm	0.0054 ppm	0.0172 ppm
Concentration per Run 1	0.0050 ppm	0.0006 ppm	0.0050 ppm	0.0050 ppm	0.0052 ppm	0.0056 ppm	0.0222 ppm
Concentration per Run 2	0.0051 ppm	-0.0055 ppm	0.0046 ppm	0.0050 ppm	0.0053 ppm	0.0053 ppm	0.0160 ppm
Concentration per Run 3	0.0051 ppm	0.0066 ppm	0.0053 ppm	0.0053 ppm	0.0050 ppm	0.0053 ppm	0.0133 ppm
Recovery Percentage 1	101.570 %	11.560 %	99.586 %	102.236 %	103.388 %	108.171 %	0.000 %
Concentration RSD	1.7 %	**1,051.2 %**	7.7 %	3.6 %	3.2 %	3.5 %	26.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0049 ppm	0.0049 ppm	0.0050 ppm	0.0047 ppm	**0.0116 ppm**	0.0354 ppm	0.0064 ppm
Concentration per Run 1	0.0047 ppm	0.0048 ppm	0.0050 ppm	0.0050 ppm	0.0091 ppm	0.0500 ppm	0.0061 ppm
Concentration per Run 2	0.0049 ppm	0.0050 ppm	0.0052 ppm	0.0045 ppm	0.0187 ppm	0.0330 ppm	0.0064 ppm
Concentration per Run 3	0.0049 ppm	0.0049 ppm	0.0047 ppm	0.0044 ppm	0.0070 ppm	0.0232 ppm	0.0066 ppm
Recovery Percentage 1	97.048 %	97.949 %	99.300 %	93.281 %	232.271 %	0.000 %	0.000 %
Concentration RSD	1.9 %	2.3 %	4.8 %	7.1 %	**53.4 %**	38.3 %	4.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0053 ppm	0.0050 ppm	0.1109 ppm	0.0050 ppm	0.0055 ppm	0.0046 ppm	0.0046 ppm
Concentration per Run 1	0.0054 ppm	0.0049 ppm	0.1133 ppm	0.0050 ppm	0.0054 ppm	0.0040 ppm	0.0045 ppm
Concentration per Run 2	0.0051 ppm	0.0050 ppm	0.1088 ppm	0.0052 ppm	0.0059 ppm	0.0050 ppm	0.0044 ppm
Concentration per Run 3	0.0054 ppm	0.0051 ppm	0.1108 ppm	0.0048 ppm	0.0053 ppm	0.0047 ppm	0.0048 ppm
Recovery Percentage 1	105.879 %	100.088 %	0.000 %	99.967 %	110.404 %	91.833 %	91.594 %
Concentration RSD	3.9 %	2.4 %	2.0 %	3.7 %	5.3 %	11.1 %	4.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	**0.0572 ppm**	0.0052 ppm	0.0056 ppm	0.0053 ppm	0.0045 ppm	0.0050 ppm	0.0043 ppm
Concentration per Run 1	0.0560 ppm	0.0049 ppm	0.0059 ppm	0.0052 ppm	0.0034 ppm	0.0048 ppm	0.0042 ppm
Concentration per Run 2	0.0585 ppm	0.0055 ppm	0.0056 ppm	0.0056 ppm	0.0046 ppm	0.0050 ppm	0.0044 ppm
Concentration per Run 3	0.0571 ppm	0.0053 ppm	0.0054 ppm	0.0052 ppm	0.0054 ppm	0.0052 ppm	0.0042 ppm
Recovery Percentage 1	1,144.251 %	104.692 %	112.455 %	106.391 %	89.541 %	99.681 %	85.602 %
Concentration RSD	**2.2 %**	6.6 %	3.9 %	3.8 %	23.0 %	3.3 %	2.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.2813 %	101.0513 %	103.9719 %	103.0589 %	101.3276 %	102.1006 %	0.0058 ppm
Concentration per Run 1	97.8177 %	100.9234 %	105.1190 %	99.0575 %	102.4837 %	101.7979 %	0.0070 ppm
Concentration per Run 2	98.7731 %	101.1051 %	103.6627 %	104.0901 %	100.4903 %	102.1407 %	0.0053 ppm
Concentration per Run 3	98.2532 %	101.1254 %	103.1340 %	106.0290 %	101.0089 %	102.3633 %	0.0053 ppm
Recovery Percentage 1							116.942 %
Concentration RSD	0.5 %	0.1 %	1.0 %	3.5 %	1.0 %	0.3 %	16.7 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: LDR 400 Fe pass
Analysis started at: 12/19/2024 10:31:28 AM
Rack: 1
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0018 ppm	0.0059 ppm	0.0012 ppm	0.0003 ppm	0.0000 ppm	0.0055 ppm
Concentration per Run 1	0.0001 ppm	-0.0037 ppm	0.0059 ppm	0.0011 ppm	0.0004 ppm	0.0000 ppm	0.0059 ppm
Concentration per Run 2	0.0002 ppm	0.0054 ppm	0.0072 ppm	0.0012 ppm	0.0003 ppm	0.0000 ppm	0.0056 ppm
Concentration per Run 3	-0.0001 ppm	0.0037 ppm	0.0046 ppm	0.0013 ppm	0.0003 ppm	0.0000 ppm	0.0052 ppm
Concentration RSD	151.9 %	269.1 %	22.4 %	8.3 %	28.6 %	32.0 %	5.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0004 ppm	0.0001 ppm	-0.0020 ppm	-0.0002 ppm	373.1324 [SIC 500]	-0.0027 ppm	0.0431 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	-0.0021 ppm	0.0004 ppm	389.3879 ppm	0.0161 ppm	0.0447 ppm
Concentration per Run 2	0.0004 ppm	0.0003 ppm	-0.0021 ppm	-0.0003 ppm	366.4126 ppm	-0.0033 ppm	0.0409 ppm
Concentration per Run 3	0.0006 ppm	0.0002 ppm	-0.0017 ppm	-0.0007 ppm	363.5967 ppm	-0.0211 ppm	0.0436 ppm
Concentration RSD	76.6 %	267.8 %	10.4 %	315.5 %	3.8 %	678.6 %	4.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	-0.0044 ppm	0.0090 ppm	0.0131 ppm	0.0011 ppm	0.0015 ppm	-0.0055 ppm
Concentration per Run 1	0.0000 ppm	-0.0045 ppm	0.0080 ppm	0.0133 ppm	0.0002 ppm	0.0000 ppm	-0.0040 ppm
Concentration per Run 2	-0.0001 ppm	-0.0044 ppm	0.0145 ppm	0.0133 ppm	0.0014 ppm	0.0030 ppm	-0.0044 ppm
Concentration per Run 3	0.0002 ppm	-0.0042 ppm	0.0045 ppm	0.0127 ppm	0.0016 ppm	0.0015 ppm	-0.0082 ppm
Concentration RSD	263.0 %	3.5 %	56.6 %	2.5 %	73.2 %	100.5 %	42.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0051 ppm	0.0041 ppm	0.0004 ppm	0.0000 ppm	-0.0003 ppm	0.0015 ppm	0.0006 ppm
Concentration per Run 1	0.0060 ppm	0.0039 ppm	0.0003 ppm	0.0003 ppm	-0.0001 ppm	0.0016 ppm	0.0005 ppm
Concentration per Run 2	0.0041 ppm	0.0040 ppm	0.0004 ppm	-0.0003 ppm	-0.0013 ppm	0.0014 ppm	0.0007 ppm
Concentration per Run 3	0.0050 ppm	0.0044 ppm	0.0005 ppm	-0.0001 ppm	0.0006 ppm	0.0015 ppm	0.0006 ppm
Concentration RSD	18.9 %	5.7 %	15.3 %	1,260.0 %	374.2 %	6.7 %	11.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.9597 %	98.0945 %	97.2555 %	106.9322 %	89.0156 %	100.7307 %	0.0006 ppm
Concentration per Run 1	95.6721 %	98.3757 %	97.0026 %	104.1723 %	88.5264 %	100.9268 %	0.0008 ppm
Concentration per Run 2	96.3721 %	97.6533 %	97.3267 %	108.2071 %	89.0381 %	100.2888 %	0.0007 ppm
Concentration per Run 3	95.8348 %	98.2546 %	97.4372 %	108.4171 %	89.4823 %	100.9764 %	0.0002 ppm
Concentration RSD	0.4 %	0.4 %	0.2 %	2.2 %	0.5 %	0.4 %	53.7 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: LDR 800 Ca pass
Analysis started at: 12/19/2024 10:39:18 AM
Rack: 1
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	-0.0051 ppm	0.0013 ppm	0.0000 ppm	0.0007 ppm	-0.0003 ppm	800.5371 [SIC 1000]
Concentration per Run 1	-0.0006 ppm	-0.0013 ppm	0.0024 ppm	-0.0001 ppm	0.0007 ppm	-0.0003 ppm	842.6496 ppm
Concentration per Run 2	-0.0003 ppm	-0.0091 ppm	-0.0002 ppm	0.0006 ppm	0.0006 ppm	-0.0003 ppm	787.4654 ppm
Concentration per Run 3	-0.0004 ppm	-0.0050 ppm	0.0018 ppm	-0.0004 ppm	0.0007 ppm	-0.0003 ppm	771.4964 ppm
Concentration RSD	31.6 %	76.1 %	105.6 %	1,098.7 %	10.4 %	2.1 %	4.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0021 ppm	0.0004 ppm	0.0007 ppm	0.0007 ppm	0.0096 ppm	-0.0107 ppm	0.0119 ppm
Concentration per Run 1	0.0020 ppm	0.0005 ppm	0.0007 ppm	0.0007 ppm	0.0117 ppm	-0.0090 ppm	0.0113 ppm
Concentration per Run 2	0.0021 ppm	0.0003 ppm	0.0007 ppm	0.0008 ppm	0.0083 ppm	-0.0398 ppm	0.0113 ppm
Concentration per Run 3	0.0021 ppm	0.0004 ppm	0.0008 ppm	0.0007 ppm	0.0090 ppm	0.0166 ppm	0.0130 ppm
Concentration RSD	1.0 %	21.3 %	10.2 %	5.8 %	18.8 %	263.4 %	8.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	0.0006 ppm	0.0187 ppm	0.0003 ppm	0.0015 ppm	0.0024 ppm	-0.0029 ppm
Concentration per Run 1	0.0004 ppm	0.0007 ppm	0.0214 ppm	0.0001 ppm	0.0010 ppm	0.0046 ppm	-0.0023 ppm
Concentration per Run 2	0.0003 ppm	0.0005 ppm	0.0147 ppm	0.0005 ppm	0.0014 ppm	0.0005 ppm	-0.0042 ppm
Concentration per Run 3	0.0004 ppm	0.0007 ppm	0.0198 ppm	0.0002 ppm	0.0020 ppm	0.0021 ppm	-0.0023 ppm
Concentration RSD	5.5 %	23.1 %	18.8 %	70.4 %	34.6 %	87.3 %	38.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0057 ppm	0.0007 ppm	0.0013 ppm	0.0011 ppm	0.0002 ppm	0.0006 ppm	0.0014 ppm
Concentration per Run 1	0.0059 ppm	0.0012 ppm	0.0012 ppm	0.0009 ppm	-0.0015 ppm	0.0005 ppm	0.0015 ppm
Concentration per Run 2	0.0055 ppm	0.0006 ppm	0.0014 ppm	0.0013 ppm	0.0005 ppm	0.0006 ppm	0.0014 ppm
Concentration per Run 3	0.0056 ppm	0.0001 ppm	0.0012 ppm	0.0011 ppm	0.0016 ppm	0.0006 ppm	0.0013 ppm
Concentration RSD	3.6 %	84.4 %	7.3 %	17.3 %	650.0 %	8.4 %	6.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	92.4328 %	90.8396 %	90.6912 %	96.0804 %	89.8335 %	91.2549 %	0.0029 ppm
Concentration per Run 1	92.0924 %	91.0407 %	90.8125 %	92.0798 %	89.5938 %	91.2369 %	0.0023 ppm
Concentration per Run 2	92.8785 %	90.5603 %	90.8889 %	97.4232 %	89.9594 %	90.9082 %	0.0030 ppm
Concentration per Run 3	92.3274 %	90.9178 %	90.3721 %	98.7382 %	89.9474 %	91.6195 %	0.0033 ppm
Concentration RSD	0.4 %	0.3 %	0.3 %	3.7 %	0.2 %	0.4 %	17.4 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: LDR Check
Analysis started at: 12/19/2024 11:25:59 AM
Rack: 0
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0027 ppm	0.0231 ppm	22.6307 ppm	20.7775 [SIC 20]	19.3533 ppm	4.9070 ppm	0.0101 ppm
Concentration per Run 1	0.0026 ppm	0.0195 ppm	22.3323 ppm	20.5459 ppm	19.3470 ppm	4.9037 ppm	0.0105 ppm
Concentration per Run 2	0.0029 ppm	0.0238 ppm	22.9246 ppm	21.0608 ppm	19.3750 ppm	4.9060 ppm	0.0094 ppm
Concentration per Run 3	0.0026 ppm	0.0259 ppm	22.6353 ppm	20.7259 ppm	19.3381 ppm	4.9114 ppm	0.0105 ppm
Recovery Percentage 1	0.000 %	0.000 %	113.153 %	103.888 %	96.767 %	98.140 %	0.000 %
Concentration RSD	6.1 %	14.2 %	1.3 %	1.3 %	0.1 %	0.1 %	6.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	5.3220 ppm	5.3002 ppm	-0.0005 ppm	20.2045 [SIC 20]	0.0039 ppm	498.3418 ppm	-0.0128 ppm
Concentration per Run 1	5.2347 ppm	5.2279 ppm	-0.0002 ppm	20.3988 ppm	0.0046 ppm	500.2927 ppm	-0.0131 ppm
Concentration per Run 2	5.3872 ppm	5.3664 ppm	-0.0007 ppm	20.0186 ppm	0.0022 ppm	499.2073 ppm	-0.0118 ppm
Concentration per Run 3	5.3439 ppm	5.3062 ppm	-0.0005 ppm	20.1959 ppm	0.0050 ppm	495.5253 ppm	-0.0136 ppm
Recovery Percentage 1	106.439 %	106.003 %	0.000 %	101.022 %	0.000 %	99.668 %	0.000 %
Concentration RSD	1.5 %	1.3 %	52.7 %	0.9 %	37.8 %	0.5 %	7.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0018 ppm	5.4562 [SIC 20]	481.1081 ppm	10.1732 [SIC 20]	50.7106 ppm	5.7118 ppm	5.4976 [SIC 20]
Concentration per Run 1	0.0019 ppm	5.3727 ppm	480.7922 ppm	10.0262 ppm	50.0060 ppm	5.6537 ppm	5.4428 ppm
Concentration per Run 2	0.0015 ppm	5.5291 ppm	484.7445 ppm	10.3038 ppm	51.3428 ppm	5.7906 ppm	5.5742 ppm
Concentration per Run 3	0.0018 ppm	5.4667 ppm	477.7876 ppm	10.1896 ppm	50.7831 ppm	5.6910 ppm	5.4756 ppm
Recovery Percentage 1	0.000 %	109.123 %	96.222 %	101.732 %	101.421 %	114.235 %	109.951 %
Concentration RSD	11.2 %	1.4 %	0.7 %	1.4 %	1.3 %	1.2 %	1.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	23.9364 [SIC 200]	10.2405 [SIC 20]	4.8340 ppm	0.0042 ppm	4.6221 ppm	-0.0002 ppm	21.9352 [SIC 20]
Concentration per Run 1	23.6723 ppm	10.0980 ppm	4.8094 ppm	0.0048 ppm	4.5626 ppm	-0.0003 ppm	21.5668 ppm
Concentration per Run 2	24.2595 ppm	10.3617 ppm	4.8399 ppm	0.0042 ppm	4.6825 ppm	-0.0004 ppm	22.1877 ppm
Concentration per Run 3	23.8773 ppm	10.2617 ppm	4.8528 ppm	0.0037 ppm	4.6211 ppm	0.0003 ppm	22.0513 ppm
Recovery Percentage 1	119.682 %	102.405 %	96.680 %	0.000 %	92.442 %	0.000 %	109.676 %
Concentration RSD	1.2 %	1.3 %	0.5 %	13.5 %	1.3 %	246.7 %	1.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	91.7120 %	90.5689 %	87.8833 %	103.1093 %	78.2065 %	92.1010 %	19.5242 ppm
Concentration per Run 1	91.8897 %	90.2004 %	88.7274 %	103.6081 %	79.0900 %	91.7854 %	19.4436 ppm
Concentration per Run 2	91.2117 %	91.3694 %	86.9599 %	102.6669 %	77.1977 %	92.9103 %	19.5410 ppm
Concentration per Run 3	92.0347 %	90.1370 %	87.9625 %	103.0529 %	78.3317 %	91.6072 %	19.5881 ppm
Recovery Percentage 1							97.621 %
Concentration RSD	0.5 %	0.8 %	1.0 %	0.5 %	1.2 %	0.8 %	0.4 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: LDR 20 As Pass
Analysis started at: 12/19/2024 11:40:53 AM
Rack: 1
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0034 ppm	18.2339 ppm	0.0162 ppm	0.0001 ppm	0.0000 ppm	0.0068 ppm
Concentration per Run 1	0.0001 ppm	-0.0077 ppm	18.1893 ppm	0.0165 ppm	0.0001 ppm	0.0000 ppm	0.0093 ppm
Concentration per Run 2	0.0000 ppm	-0.0025 ppm	18.1628 ppm	0.0163 ppm	0.0001 ppm	0.0000 ppm	0.0089 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	18.3494 ppm	0.0156 ppm	0.0001 ppm	0.0000 ppm	0.0023 ppm
Concentration RSD	92.2 %	115.1 %	0.6 %	3.1 %	32.7 %	5,494.4 %	57.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0041 ppm	-0.0001 ppm	-0.0001 ppm	-0.0005 ppm	0.0008 ppm	0.1048 ppm	0.0012 ppm
Concentration per Run 1	-0.0041 ppm	-0.0002 ppm	-0.0002 ppm	-0.0002 ppm	0.0017 ppm	0.1193 ppm	0.0018 ppm
Concentration per Run 2	-0.0041 ppm	-0.0001 ppm	0.0001 ppm	-0.0005 ppm	0.0017 ppm	0.0926 ppm	0.0004 ppm
Concentration per Run 3	-0.0041 ppm	-0.0001 ppm	-0.0001 ppm	-0.0007 ppm	-0.0010 ppm	0.1023 ppm	0.0013 ppm
Concentration RSD	0.3 %	35.9 %	260.4 %	48.4 %	198.3 %	12.9 %	63.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0010 ppm	0.0320 ppm	-0.0003 ppm	0.0001 ppm	0.0045 ppm	0.0004 ppm
Concentration per Run 1	0.0001 ppm	0.0010 ppm	0.0340 ppm	-0.0003 ppm	-0.0001 ppm	0.0047 ppm	0.0025 ppm
Concentration per Run 2	0.0000 ppm	0.0010 ppm	0.0266 ppm	-0.0002 ppm	0.0002 ppm	0.0047 ppm	0.0002 ppm
Concentration per Run 3	-0.0001 ppm	0.0010 ppm	0.0353 ppm	-0.0003 ppm	0.0001 ppm	0.0042 ppm	-0.0014 ppm
Concentration RSD	336.6 %	4.6 %	14.7 %	21.6 %	296.8 %	7.0 %	432.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0046 ppm	0.0010 ppm	0.0001 ppm	0.0000 ppm	-0.0006 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	0.0043 ppm	0.0013 ppm	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 2	0.0044 ppm	0.0006 ppm	0.0001 ppm	0.0002 ppm	-0.0005 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 3	0.0050 ppm	0.0010 ppm	0.0001 ppm	0.0000 ppm	-0.0010 ppm	0.0000 ppm	-0.0001 ppm
Concentration RSD	7.9 %	34.2 %	46.8 %	770.8 %	59.8 %	291.2 %	178.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	96.0385 %	102.9775 %	105.7377 %	104.6345 %	101.9571 %	105.0271 %	0.0021 ppm
Concentration per Run 1	97.0133 %	102.4970 %	105.7075 %	102.4427 %	101.9140 %	104.5371 %	0.0030 ppm
Concentration per Run 2	95.9820 %	103.0646 %	106.3631 %	105.7494 %	102.3304 %	105.1018 %	0.0008 ppm
Concentration per Run 3	95.1202 %	103.3708 %	105.1425 %	105.7113 %	101.6268 %	105.4425 %	0.0025 ppm
Concentration RSD	1.0 %	0.4 %	0.6 %	1.8 %	0.3 %	0.4 %	54.7 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: LDR 5 Sb Pass
Analysis started at: 12/19/2024 11:47:36 AM
Rack: 1
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0005 ppm	0.0017 ppm	0.0092 ppm	0.0000 ppm	0.0000 ppm	0.0102 ppm
Concentration per Run 1	0.0001 ppm	0.0016 ppm	0.0023 ppm	0.0096 ppm	0.0000 ppm	0.0000 ppm	0.0171 ppm
Concentration per Run 2	-0.0002 ppm	-0.0022 ppm	0.0008 ppm	0.0091 ppm	0.0000 ppm	0.0000 ppm	0.0113 ppm
Concentration per Run 3	0.0001 ppm	0.0021 ppm	0.0020 ppm	0.0091 ppm	0.0000 ppm	-0.0001 ppm	0.0024 ppm
Concentration RSD	3,654.2 %	457.8 %	47.2 %	2.9 %	35.7 %	184.9 %	72.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0002 ppm	-0.0004 ppm	0.0014 ppm	0.0617 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0003 ppm	-0.0004 ppm	0.0010 ppm	0.0859 ppm	0.0004 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	0.0003 ppm	-0.0003 ppm	0.0012 ppm	0.0467 ppm	0.0013 ppm
Concentration per Run 3	-0.0001 ppm	0.0001 ppm	0.0002 ppm	-0.0005 ppm	0.0019 ppm	0.0525 ppm	0.0001 ppm
Concentration RSD	66.2 %	18.1 %	24.3 %	28.0 %	35.6 %	34.3 %	109.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0005 ppm	0.0073 ppm	-0.0001 ppm	-0.0008 ppm	4.9231 ppm	-0.0010 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	0.0042 ppm	0.0001 ppm	-0.0010 ppm	4.9377 ppm	-0.0016 ppm
Concentration per Run 2	0.0003 ppm	0.0006 ppm	0.0105 ppm	0.0001 ppm	-0.0003 ppm	4.9138 ppm	-0.0003 ppm
Concentration per Run 3	-0.0002 ppm	0.0005 ppm	0.0073 ppm	-0.0003 ppm	-0.0012 ppm	4.9178 ppm	-0.0011 ppm
Concentration RSD	887.8 %	18.9 %	43.6 %	502.4 %	57.5 %	0.3 %	68.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0027 ppm	0.0002 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0007 ppm
Concentration per Run 1	0.0026 ppm	0.0003 ppm	0.0000 ppm	0.0002 ppm	0.0004 ppm	-0.0001 ppm	-0.0007 ppm
Concentration per Run 2	0.0023 ppm	0.0004 ppm	0.0001 ppm	0.0002 ppm	-0.0002 ppm	0.0002 ppm	-0.0007 ppm
Concentration per Run 3	0.0030 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm	-0.0006 ppm
Concentration RSD	12.0 %	77.4 %	117.0 %	183.4 %	648.8 %	230.6 %	7.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.2722 %	101.9227 %	104.1574 %	99.7858 %	102.1776 %	103.2184 %	0.0016 ppm
Concentration per Run 1	93.9175 %	101.7321 %	104.2157 %	94.3464 %	101.7940 %	102.8306 %	0.0023 ppm
Concentration per Run 2	96.2170 %	102.0362 %	104.1091 %	101.4658 %	102.3001 %	103.2987 %	0.0010 ppm
Concentration per Run 3	95.6822 %	101.9998 %	104.1474 %	103.5451 %	102.4388 %	103.5259 %	0.0017 ppm
Concentration RSD	1.3 %	0.2 %	0.1 %	4.8 %	0.3 %	0.3 %	39.7 %

LabBook: WG2011242_12192024T6.imexp

Sample: CCV
Analysis started at: 12/19/2024 12:02:48 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4711 ppm	0.4980 ppm	0.4682 ppm	0.4816 ppm	0.4870 ppm	0.4936 ppm	0.4977 ppm
Concentration per Run 1	0.4725 ppm	0.5173 ppm	0.4658 ppm	0.4809 ppm	0.5025 ppm	0.5086 ppm	0.5110 ppm
Concentration per Run 2	0.4705 ppm	0.4936 ppm	0.4649 ppm	0.4786 ppm	0.4809 ppm	0.4855 ppm	0.4898 ppm
Concentration per Run 3	0.4702 ppm	0.4832 ppm	0.4737 ppm	0.4854 ppm	0.4776 ppm	0.4868 ppm	0.4922 ppm
Recovery Percentage 1	94.218 %	99.608 %	93.635 %	96.329 %	97.398 %	98.723 %	99.535 %
Concentration RSD	0.3 %	3.5 %	1.0 %	0.7 %	2.8 %	2.6 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4799 ppm	0.4961 ppm	0.4829 ppm	0.4692 ppm	0.4757 ppm	5.2030 ppm	0.4920 ppm
Concentration per Run 1	0.4776 ppm	0.4951 ppm	0.4833 ppm	0.4704 ppm	0.4926 ppm	5.3725 ppm	0.4937 ppm
Concentration per Run 2	0.4774 ppm	0.4926 ppm	0.4840 ppm	0.4672 ppm	0.4675 ppm	5.1095 ppm	0.4907 ppm
Concentration per Run 3	0.4847 ppm	0.5007 ppm	0.4814 ppm	0.4699 ppm	0.4671 ppm	5.1269 ppm	0.4916 ppm
Recovery Percentage 1	95.978 %	99.227 %	96.573 %	93.833 %	95.148 %	104.059 %	98.402 %
Concentration RSD	0.9 %	0.8 %	0.3 %	0.4 %	3.1 %	2.8 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4637 ppm	0.4795 ppm	10.1647 ppm	0.4918 ppm	0.4955 ppm	0.4962 ppm	0.4812 ppm
Concentration per Run 1	0.4766 ppm	0.4773 ppm	10.4747 ppm	0.4894 ppm	0.4948 ppm	0.4971 ppm	0.4801 ppm
Concentration per Run 2	0.4564 ppm	0.4747 ppm	10.0359 ppm	0.4891 ppm	0.4918 ppm	0.4898 ppm	0.4784 ppm
Concentration per Run 3	0.4579 ppm	0.4866 ppm	9.9834 ppm	0.4970 ppm	0.4998 ppm	0.5016 ppm	0.4851 ppm
Recovery Percentage 1	92.733 %	95.906 %	101.647 %	98.367 %	99.093 %	99.233 %	96.241 %
Concentration RSD	2.4 %	1.3 %	2.7 %	0.9 %	0.8 %	1.2 %	0.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.5013 ppm	0.4833 ppm	0.5071 ppm	0.4932 ppm	0.4968 ppm	0.4811 ppm	0.4946 ppm
Concentration per Run 1	5.4922 ppm	0.4825 ppm	0.5237 ppm	0.4937 ppm	0.4956 ppm	0.4827 ppm	0.4920 ppm
Concentration per Run 2	5.4564 ppm	0.4793 ppm	0.5000 ppm	0.4940 ppm	0.4922 ppm	0.4815 ppm	0.4925 ppm
Concentration per Run 3	5.5554 ppm	0.4880 ppm	0.4976 ppm	0.4917 ppm	0.5027 ppm	0.4793 ppm	0.4992 ppm
Recovery Percentage 1	104.787 %	96.654 %	101.427 %	98.632 %	99.367 %	96.230 %	98.911 %
Concentration RSD	0.9 %	0.9 %	2.8 %	0.3 %	1.1 %	0.4 %	0.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.8229 %	101.5396 %	104.1173 %	106.3923 %	99.4521 %	103.6292 %	0.5030 ppm
Concentration per Run 1	94.8404 %	101.4672 %	104.5775 %	104.0813 %	99.8632 %	103.4864 %	0.5181 ppm
Concentration per Run 2	96.9985 %	101.7032 %	103.6433 %	107.9300 %	99.9433 %	103.7068 %	0.4983 ppm
Concentration per Run 3	95.6298 %	101.4483 %	104.1311 %	107.1655 %	98.5497 %	103.6945 %	0.4927 ppm
Recovery Percentage 1							100.602 %
Concentration RSD	1.1 %	0.1 %	0.4 %	1.9 %	0.8 %	0.1 %	2.7 %

LabBook: WG2011242_12192024T6.imexp

Sample: CCB
Analysis started at: 12/19/2024 12:09:14 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0008 ppm	0.0000 ppm	0.0057 ppm	0.0000 ppm	0.0000 ppm	-0.0021 ppm
Concentration per Run 1	0.0000 ppm	0.0060 ppm	0.0003 ppm	0.0057 ppm	0.0000 ppm	0.0000 ppm	-0.0079 ppm
Concentration per Run 2	0.0000 ppm	-0.0034 ppm	-0.0001 ppm	0.0060 ppm	0.0000 ppm	0.0000 ppm	-0.0005 ppm
Concentration per Run 3	0.0002 ppm	-0.0001 ppm	-0.0001 ppm	0.0055 ppm	-0.0001 ppm	0.0000 ppm	0.0020 ppm
Recovery Percentage 1	1.142 %	0.840 %	0.186 %	19.099 %	0.001 %	-0.145 %	-2.117 %
Concentration RSD	162.3 %	562.2 %	2,823.7 %	4.3 %	115,202.7 %	181.6 %	244.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	-0.0017 ppm	0.0298 ppm	-0.0007 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	-0.0003 ppm	0.0004 ppm	0.0213 ppm	0.0022 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm	-0.0011 ppm	0.0411 ppm	-0.0011 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0002 ppm	-0.0001 ppm	-0.0045 ppm	0.0270 ppm	-0.0031 ppm
Recovery Percentage 1	1.189 %	0.134 %	-1.618 %	-2.467 %	-3.458 %	1.191 %	-0.669 %
Concentration RSD	53.2 %	482.1 %	66.3 %	39.4 %	143.3 %	34.2 %	394.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0001 ppm	0.0009 ppm	0.0018 ppm	-0.0001 ppm	0.0003 ppm	0.0012 ppm	-0.0007 ppm
Concentration per Run 1	0.0002 ppm	0.0010 ppm	0.0041 ppm	-0.0002 ppm	0.0005 ppm	0.0012 ppm	0.0003 ppm
Concentration per Run 2	-0.0001 ppm	0.0009 ppm	0.0035 ppm	-0.0002 ppm	0.0005 ppm	0.0013 ppm	-0.0030 ppm
Concentration per Run 3	-0.0003 ppm	0.0006 ppm	-0.0021 ppm	0.0000 ppm	0.0001 ppm	0.0011 ppm	0.0007 ppm
Recovery Percentage 1	-0.651 %	1.718 %	0.091 %	-0.492 %	3.369 %	2.399 %	-6.624 %
Concentration RSD	392.3 %	23.7 %	186.1 %	120.6 %	61.4 %	9.0 %	308.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0007 ppm	-0.0001 ppm	-0.0010 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0010 ppm	0.0000 ppm	-0.0010 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0002 ppm	-0.0003 ppm	-0.0010 ppm
Concentration per Run 3	-0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0010 ppm	0.0000 ppm	-0.0010 ppm
Recovery Percentage 1	-0.004 %	0.199 %	0.265 %	2.314 %	3.578 %	-1.133 %	-20.193 %
Concentration RSD	1,028.3 %	111.2 %	91.8 %	42.0 %	62.4 %	166.3 %	4.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	96.9873 %	101.5167 %	103.6434 %	96.0197 %	102.3660 %	101.2808 %	0.0008 ppm
Concentration per Run 1	94.9018 %	101.7702 %	103.6373 %	89.4235 %	101.8635 %	101.1877 %	0.0011 ppm
Concentration per Run 2	98.6803 %	101.5563 %	103.4887 %	98.5403 %	102.2555 %	101.3825 %	0.0007 ppm
Concentration per Run 3	97.3798 %	101.2237 %	103.8043 %	100.0953 %	102.9791 %	101.2722 %	0.0006 ppm
Recovery Percentage 1							7.752 %
Concentration RSD	2.0 %	0.3 %	0.2 %	6.0 %	0.6 %	0.1 %	32.6 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: WG2011116-1 WG2011116
Analysis started at: 12/19/2024 12:37:49 PM
Rack: 1
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0020 ppm	0.0017 ppm	0.0083 ppm	0.0001 ppm	0.0000 ppm	0.0274 ppm
Concentration per Run 1	0.0001 ppm	-0.0031 ppm	0.0013 ppm	0.0086 ppm	0.0002 ppm	0.0000 ppm	0.0304 ppm
Concentration per Run 2	0.0002 ppm	-0.0003 ppm	0.0036 ppm	0.0081 ppm	0.0001 ppm	-0.0001 ppm	0.0256 ppm
Concentration per Run 3	0.0000 ppm	0.0093 ppm	0.0004 ppm	0.0082 ppm	0.0001 ppm	0.0000 ppm	0.0263 ppm
Recovery Percentage 1	1.723 %	1.989 %	34.947 %	27.643 %	1.147 %	-0.498 %	27.443 %
Concentration RSD	66.7 %	324.8 %	94.7 %	3.0 %	43.4 %	111.2 %	9.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0001 ppm	0.0002 ppm	0.0023 ppm	0.0750 ppm	0.0055 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	0.0000 ppm	0.0002 ppm	0.0019 ppm	0.0804 ppm	0.0060 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0003 ppm	0.0025 ppm	0.0876 ppm	0.0040 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	0.0002 ppm	0.0003 ppm	0.0025 ppm	0.0569 ppm	0.0066 ppm
Recovery Percentage 1	1.036 %	-1.474 %	0.612 %	2.305 %	4.553 %	2.998 %	5.515 %
Concentration RSD	5.2 %	36.0 %	156.7 %	30.3 %	15.5 %	21.4 %	24.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0001 ppm	0.0001 ppm	**139.2708 ppm**	-0.0006 ppm	0.0002 ppm	0.0015 ppm	0.0006 ppm
Concentration per Run 1	-0.0002 ppm	0.0001 ppm	138.6731 ppm	-0.0004 ppm	0.0001 ppm	0.0023 ppm	0.0009 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	140.0160 ppm	-0.0007 ppm	0.0003 ppm	0.0002 ppm	-0.0011 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	139.1235 ppm	-0.0009 ppm	0.0002 ppm	0.0019 ppm	0.0020 ppm
Recovery Percentage 1	-0.745 %	0.291 %	6,963.542 %	-2.592 %	2.266 %	2.952 %	6.208 %
Concentration RSD	182.1 %	42.8 %	**0.5 %**	37.3 %	42.2 %	76.9 %	249.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0345 ppm	0.0021 ppm	0.0001 ppm	0.0000 ppm	-0.0032 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 1	0.0374 ppm	0.0021 ppm	0.0002 ppm	0.0000 ppm	-0.0018 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 2	0.0342 ppm	0.0024 ppm	0.0001 ppm	0.0001 ppm	-0.0047 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 3	0.0319 ppm	0.0019 ppm	0.0001 ppm	-0.0001 ppm	-0.0033 ppm	-0.0002 ppm	0.0001 ppm
Recovery Percentage 1	6.903 %	4.222 %	1.331 %	0.011 %	-16.193 %	-1.032 %	2.443 %
Concentration RSD	7.9 %	12.4 %	59.1 %	9,769.5 %	44.9 %	70.2 %	45.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	94.1795 %	97.8687 %	98.7359 %	106.5206 %	87.5136 %	100.0270 %	0.0033 ppm
Concentration per Run 1	94.5107 %	98.2490 %	98.8063 %	106.3781 %	87.7203 %	100.2616 %	0.0031 ppm
Concentration per Run 2	93.6765 %	97.4469 %	98.6045 %	106.1016 %	87.2543 %	99.7895 %	0.0033 ppm
Concentration per Run 3	94.3512 %	97.9102 %	98.7969 %	107.0821 %	87.5663 %	100.0299 %	0.0035 ppm
Recovery Percentage 1							32.979 %
Concentration RSD	0.5 %	0.4 %	0.1 %	0.5 %	0.3 %	0.2 %	7.3 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: WG2011116-2 WG2011116
Analysis started at: 12/19/2024 12:44:35 PM
Rack: 1
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0495 ppm	2.0409 ppm	0.1200 ppm	0.9808 ppm	1.9848 ppm	0.0504 ppm	10.1331 ppm
Concentration per Run 1	0.0496 ppm	2.0605 ppm	0.1182 ppm	0.9756 ppm	2.0020 ppm	0.0509 ppm	10.1980 ppm
Concentration per Run 2	0.0499 ppm	2.0172 ppm	0.1195 ppm	0.9843 ppm	1.9664 ppm	0.0501 ppm	10.0050 ppm
Concentration per Run 3	0.0491 ppm	2.0450 ppm	0.1222 ppm	0.9826 ppm	1.9861 ppm	0.0503 ppm	10.1965 ppm
Concentration RSD	0.8 %	1.1 %	1.7 %	0.5 %	0.9 %	0.8 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0541 ppm	0.5331 ppm	0.1997 ppm	0.2548 ppm	0.9815 ppm	10.1956 ppm	9.7278 ppm
Concentration per Run 1	0.0538 ppm	0.5309 ppm	0.2001 ppm	0.2538 ppm	0.9895 ppm	10.2960 ppm	9.7282 ppm
Concentration per Run 2	0.0544 ppm	0.5352 ppm	0.2006 ppm	0.2558 ppm	0.9666 ppm	10.0947 ppm	9.7737 ppm
Concentration per Run 3	0.0541 ppm	0.5332 ppm	0.1982 ppm	0.2547 ppm	0.9883 ppm	10.1960 ppm	9.6816 ppm
Concentration RSD	0.5 %	0.4 %	0.6 %	0.4 %	1.3 %	1.0 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4847 ppm	1.0448 ppm	10.5564 ppm	0.5262 ppm	0.5526 ppm	0.5251 ppm	0.1179 ppm
Concentration per Run 1	0.4892 ppm	1.0360 ppm	10.6514 ppm	0.5237 ppm	0.5485 ppm	0.5241 ppm	0.1147 ppm
Concentration per Run 2	0.4801 ppm	1.0524 ppm	10.4667 ppm	0.5282 ppm	0.5553 ppm	0.5268 ppm	0.1194 ppm
Concentration per Run 3	0.4849 ppm	1.0461 ppm	10.5510 ppm	0.5267 ppm	0.5539 ppm	0.5245 ppm	0.1196 ppm
Concentration RSD	0.9 %	0.8 %	0.9 %	0.4 %	0.7 %	0.3 %	2.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.5701 ppm	0.9865 ppm	0.9769 ppm	1.0181 ppm	0.1205 ppm	0.5057 ppm	0.5320 ppm
Concentration per Run 1	1.5615 ppm	0.9819 ppm	0.9844 ppm	1.0163 ppm	0.1200 ppm	0.5056 ppm	0.5287 ppm
Concentration per Run 2	1.5762 ppm	0.9887 ppm	0.9685 ppm	1.0241 ppm	0.1208 ppm	0.5083 ppm	0.5340 ppm
Concentration per Run 3	1.5727 ppm	0.9888 ppm	0.9778 ppm	1.0141 ppm	0.1208 ppm	0.5031 ppm	0.5332 ppm
Concentration RSD	0.5 %	0.4 %	0.8 %	0.5 %	0.4 %	0.5 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	94.2275 %	100.1160 %	101.6929 %	106.3955 %	92.2004 %	101.5971 %	0.0012 ppm
Concentration per Run 1	93.8006 %	99.9065 %	101.7087 %	105.4906 %	92.6631 %	101.6325 %	0.0019 ppm
Concentration per Run 2	94.6950 %	99.8949 %	101.7055 %	107.2851 %	91.6778 %	101.0806 %	0.0005 ppm
Concentration per Run 3	94.1870 %	100.5466 %	101.6644 %	106.4106 %	92.2603 %	102.0783 %	0.0011 ppm
Concentration RSD	0.5 %	0.4 %	0.0 %	0.8 %	0.5 %	0.5 %	56.9 %

LabBook: WG2011242_12192024T6.imexp

Sample: L2472648-02 WG2011116
Analysis started at: 12/19/2024 12:50:59 PM
Rack: 1
Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0366 ppm	0.0029 ppm	0.0098 ppm	0.0588 ppm	0.0000 ppm	24.7956 ppm
Concentration per Run 1	0.0001 ppm	0.0351 ppm	0.0024 ppm	0.0099 ppm	0.0591 ppm	0.0000 ppm	24.7067 ppm
Concentration per Run 2	0.0000 ppm	0.0362 ppm	0.0030 ppm	0.0098 ppm	0.0585 ppm	0.0000 ppm	24.6907 ppm
Concentration per Run 3	0.0003 ppm	0.0385 ppm	0.0032 ppm	0.0097 ppm	0.0587 ppm	0.0000 ppm	24.9894 ppm
Concentration RSD	147.2 %	4.8 %	14.0 %	1.2 %	0.5 %	62.5 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	0.0040 ppm	0.0008 ppm	0.0033 ppm	0.0473 ppm	1.6653 ppm	1.7139 ppm
Concentration per Run 1	0.0001 ppm	0.0040 ppm	0.0008 ppm	0.0033 ppm	0.0465 ppm	1.6929 ppm	1.7075 ppm
Concentration per Run 2	0.0002 ppm	0.0040 ppm	0.0006 ppm	0.0032 ppm	0.0459 ppm	1.6581 ppm	1.7239 ppm
Concentration per Run 3	0.0002 ppm	0.0040 ppm	0.0009 ppm	0.0032 ppm	0.0496 ppm	1.6449 ppm	1.7104 ppm
Concentration RSD	15.1 %	0.9 %	20.5 %	1.7 %	4.2 %	1.5 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.3748 ppm	0.0016 ppm	138.4290 ppm	0.0042 ppm	0.0351 ppm	0.0027 ppm	0.0028 ppm
Concentration per Run 1	0.3738 ppm	0.0018 ppm	138.8230 ppm	0.0041 ppm	0.0351 ppm	0.0026 ppm	0.0030 ppm
Concentration per Run 2	0.3733 ppm	0.0015 ppm	138.2614 ppm	0.0042 ppm	0.0347 ppm	0.0043 ppm	0.0025 ppm
Concentration per Run 3	0.3771 ppm	0.0015 ppm	138.2026 ppm	0.0042 ppm	0.0353 ppm	0.0011 ppm	0.0030 ppm
Concentration RSD	0.6 %	10.7 %	0.2 %	1.8 %	0.9 %	61.1 %	11.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.6805 ppm	0.0017 ppm	0.0945 ppm	0.0001 ppm	-0.0029 ppm	-0.0003 ppm	0.0296 ppm
Concentration per Run 1	0.6777 ppm	0.0014 ppm	0.0945 ppm	0.0001 ppm	-0.0026 ppm	-0.0003 ppm	0.0294 ppm
Concentration per Run 2	0.6815 ppm	0.0016 ppm	0.0942 ppm	0.0004 ppm	-0.0038 ppm	-0.0001 ppm	0.0296 ppm
Concentration per Run 3	0.6823 ppm	0.0020 ppm	0.0946 ppm	-0.0002 ppm	-0.0022 ppm	-0.0006 ppm	0.0298 ppm
Concentration RSD	0.4 %	15.9 %	0.2 %	384.6 %	30.3 %	83.3 %	0.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	94.7802 %	96.8125 %	96.8132 %	106.6595 %	85.3005 %	98.7414 %	0.0039 ppm
Concentration per Run 1	95.4433 %	97.1657 %	96.7752 %	107.3715 %	85.3246 %	99.0163 %	0.0036 ppm
Concentration per Run 2	94.5217 %	96.8565 %	96.8262 %	106.5923 %	85.1560 %	98.8161 %	0.0030 ppm
Concentration per Run 3	94.3757 %	96.4154 %	96.8380 %	106.0146 %	85.4207 %	98.3917 %	0.0052 ppm
Concentration RSD	0.6 %	0.4 %	0.0 %	0.6 %	0.2 %	0.3 %	27.7 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: WG2011116-3 WG2011116
Analysis started at: 12/19/2024 12:57:41 PM
Rack: 1
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0501 ppm	2.0246 ppm	0.1316 ppm	1.0495 ppm	1.9970 ppm	0.0493 ppm	33.4611 ppm
Concentration per Run 1	0.0503 ppm	1.9834 ppm	0.1320 ppm	1.0442 ppm	1.9671 ppm	0.0486 ppm	32.9260 ppm
Concentration per Run 2	0.0499 ppm	2.0334 ppm	0.1316 ppm	1.0607 ppm	2.0067 ppm	0.0492 ppm	33.6142 ppm
Concentration per Run 3	0.0500 ppm	2.0568 ppm	0.1310 ppm	1.0435 ppm	2.0171 ppm	0.0500 ppm	33.8431 ppm
Concentration RSD	0.4 %	1.9 %	0.4 %	0.9 %	1.3 %	1.4 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0560 ppm	0.5488 ppm	0.1960 ppm	0.2600 ppm	1.0023 ppm	11.7826 ppm	10.9520 ppm
Concentration per Run 1	0.0557 ppm	0.5463 ppm	0.1957 ppm	0.2603 ppm	0.9878 ppm	11.6005 ppm	10.9534 ppm
Concentration per Run 2	0.0566 ppm	0.5537 ppm	0.1967 ppm	0.2597 ppm	1.0080 ppm	11.8631 ppm	10.9861 ppm
Concentration per Run 3	0.0558 ppm	0.5463 ppm	0.1955 ppm	0.2602 ppm	1.0110 ppm	11.8841 ppm	10.9164 ppm
Concentration RSD	0.8 %	0.8 %	0.3 %	0.1 %	1.3 %	1.3 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.8239 ppm	1.0963 ppm	144.0638 ppm	0.5408 ppm	0.5910 ppm	0.5558 ppm	0.1299 ppm
Concentration per Run 1	0.8097 ppm	1.0904 ppm	141.7578 ppm	0.5389 ppm	0.5888 ppm	0.5552 ppm	0.1302 ppm
Concentration per Run 2	0.8292 ppm	1.1045 ppm	144.9933 ppm	0.5451 ppm	0.5949 ppm	0.5584 ppm	0.1288 ppm
Concentration per Run 3	0.8328 ppm	1.0940 ppm	145.4401 ppm	0.5386 ppm	0.5892 ppm	0.5539 ppm	0.1307 ppm
Concentration RSD	1.5 %	0.7 %	1.4 %	0.7 %	0.6 %	0.4 %	0.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.3498 ppm	1.0088 ppm	1.0442 ppm	1.0134 ppm	0.1167 ppm	0.5030 ppm	0.5806 ppm
Concentration per Run 1	2.3467 ppm	1.0040 ppm	1.0284 ppm	1.0134 ppm	0.1146 ppm	0.5024 ppm	0.5771 ppm
Concentration per Run 2	2.3646 ppm	1.0155 ppm	1.0493 ppm	1.0135 ppm	0.1187 ppm	0.5035 ppm	0.5853 ppm
Concentration per Run 3	2.3382 ppm	1.0068 ppm	1.0548 ppm	1.0135 ppm	0.1170 ppm	0.5032 ppm	0.5796 ppm
Concentration RSD	0.6 %	0.6 %	1.3 %	0.0 %	1.8 %	0.1 %	0.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.1592 %	97.0052 %	96.1525 %	108.4193 %	83.6861 %	98.6227 %	0.0036 ppm
Concentration per Run 1	96.9622 %	97.0187 %	96.2517 %	110.3914 %	83.8895 %	98.7496 %	0.0036 ppm
Concentration per Run 2	94.6076 %	97.3217 %	95.5569 %	107.8167 %	82.9385 %	98.8824 %	0.0040 ppm
Concentration per Run 3	93.9079 %	96.6753 %	96.6490 %	107.0498 %	84.2303 %	98.2361 %	0.0033 ppm
Concentration RSD	1.7 %	0.3 %	0.6 %	1.6 %	0.8 %	0.3 %	9.0 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: WG2011116-4 WG2011116
Analysis started at: 12/19/2024 1:04:06 PM
Rack: 1
Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0364 ppm	0.0020 ppm	0.0095 ppm	0.0575 ppm	0.0000 ppm	24.2057 ppm
Concentration per Run 1	0.0001 ppm	0.0317 ppm	0.0030 ppm	0.0097 ppm	0.0578 ppm	0.0000 ppm	24.2782 ppm
Concentration per Run 2	0.0002 ppm	0.0364 ppm	0.0019 ppm	0.0094 ppm	0.0574 ppm	0.0000 ppm	24.0252 ppm
Concentration per Run 3	0.0000 ppm	0.0410 ppm	0.0010 ppm	0.0093 ppm	0.0573 ppm	0.0000 ppm	24.3138 ppm
Concentration RSD	74.0 %	12.8 %	52.5 %	2.2 %	0.4 %	146.5 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0040 ppm	0.0009 ppm	0.0036 ppm	0.0454 ppm	1.6566 ppm	1.6846 ppm
Concentration per Run 1	0.0001 ppm	0.0041 ppm	0.0009 ppm	0.0034 ppm	0.0451 ppm	1.6551 ppm	1.6867 ppm
Concentration per Run 2	0.0001 ppm	0.0040 ppm	0.0009 ppm	0.0039 ppm	0.0453 ppm	1.6565 ppm	1.6839 ppm
Concentration per Run 3	0.0001 ppm	0.0039 ppm	0.0008 ppm	0.0034 ppm	0.0459 ppm	1.6582 ppm	1.6831 ppm
Concentration RSD	2.8 %	2.5 %	5.4 %	7.5 %	0.9 %	0.1 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.3658 ppm	0.0019 ppm	135.3246 ppm	0.0041 ppm	0.0347 ppm	0.0024 ppm	0.0030 ppm
Concentration per Run 1	0.3676 ppm	0.0020 ppm	135.8566 ppm	0.0039 ppm	0.0345 ppm	0.0023 ppm	0.0043 ppm
Concentration per Run 2	0.3623 ppm	0.0019 ppm	135.2468 ppm	0.0039 ppm	0.0350 ppm	0.0017 ppm	0.0034 ppm
Concentration per Run 3	0.3676 ppm	0.0018 ppm	134.8705 ppm	0.0043 ppm	0.0347 ppm	0.0033 ppm	0.0015 ppm
Concentration RSD	0.8 %	5.3 %	0.4 %	5.8 %	0.8 %	34.0 %	47.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.6671 ppm	0.0015 ppm	0.0921 ppm	0.0003 ppm	-0.0035 ppm	-0.0002 ppm	0.0287 ppm
Concentration per Run 1	0.6677 ppm	0.0014 ppm	0.0925 ppm	0.0002 ppm	-0.0032 ppm	-0.0004 ppm	0.0287 ppm
Concentration per Run 2	0.6642 ppm	0.0017 ppm	0.0920 ppm	0.0002 ppm	-0.0038 ppm	-0.0001 ppm	0.0286 ppm
Concentration per Run 3	0.6693 ppm	0.0015 ppm	0.0917 ppm	0.0004 ppm	-0.0035 ppm	-0.0003 ppm	0.0288 ppm
Concentration RSD	0.4 %	8.5 %	0.4 %	48.4 %	8.8 %	61.5 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.1876 %	97.2314 %	97.2310 %	107.4428 %	85.7495 %	99.0766 %	0.0034 ppm
Concentration per Run 1	95.7273 %	97.3923 %	97.0466 %	107.1892 %	85.6501 %	99.1989 %	0.0040 ppm
Concentration per Run 2	95.0241 %	96.9829 %	97.4650 %	107.9271 %	85.9482 %	98.7952 %	0.0032 ppm
Concentration per Run 3	94.8114 %	97.3190 %	97.1814 %	107.2122 %	85.6502 %	99.2359 %	0.0029 ppm
Concentration RSD	0.5 %	0.2 %	0.2 %	0.4 %	0.2 %	0.2 %	17.2 %

LabBook: WG2011242_12192024T6.imexp

Sample: L2472648-04 WG2011116
Analysis started at: 12/19/2024 1:10:48 PM
Rack: 1
Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0457 ppm	0.0024 ppm	0.0074 ppm	0.0545 ppm	0.0000 ppm	19.2631 ppm
Concentration per Run 1	0.0003 ppm	0.0413 ppm	0.0013 ppm	0.0074 ppm	0.0547 ppm	0.0000 ppm	19.3517 ppm
Concentration per Run 2	0.0000 ppm	0.0448 ppm	0.0037 ppm	0.0075 ppm	0.0545 ppm	0.0000 ppm	19.2871 ppm
Concentration per Run 3	0.0004 ppm	0.0511 ppm	0.0022 ppm	0.0072 ppm	0.0542 ppm	0.0001 ppm	19.1505 ppm
Concentration RSD	91.2 %	10.9 %	50.5 %	1.4 %	0.4 %	67.2 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	0.0036 ppm	0.0007 ppm	0.0046 ppm	0.0784 ppm	1.4941 ppm	1.7454 ppm
Concentration per Run 1	0.0002 ppm	0.0035 ppm	0.0007 ppm	0.0048 ppm	0.0788 ppm	1.5107 ppm	1.7403 ppm
Concentration per Run 2	0.0001 ppm	0.0034 ppm	0.0006 ppm	0.0045 ppm	0.0775 ppm	1.4895 ppm	1.7494 ppm
Concentration per Run 3	0.0002 ppm	0.0037 ppm	0.0007 ppm	0.0044 ppm	0.0790 ppm	1.4822 ppm	1.7465 ppm
Concentration RSD	28.5 %	4.3 %	5.6 %	4.0 %	1.0 %	1.0 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.3582 ppm	0.0007 ppm	135.2944 ppm	0.0045 ppm	0.0475 ppm	0.0020 ppm	0.0012 ppm
Concentration per Run 1	0.3591 ppm	0.0006 ppm	135.7176 ppm	0.0047 ppm	0.0485 ppm	0.0015 ppm	0.0030 ppm
Concentration per Run 2	0.3594 ppm	0.0006 ppm	135.4981 ppm	0.0042 ppm	0.0471 ppm	0.0022 ppm	-0.0015 ppm
Concentration per Run 3	0.3562 ppm	0.0008 ppm	134.6674 ppm	0.0046 ppm	0.0468 ppm	0.0023 ppm	0.0022 ppm
Concentration RSD	0.5 %	13.9 %	0.4 %	5.7 %	1.9 %	21.9 %	191.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.8815 ppm	0.0018 ppm	0.0656 ppm	0.0001 ppm	-0.0037 ppm	-0.0003 ppm	0.0232 ppm
Concentration per Run 1	0.8841 ppm	0.0011 ppm	0.0657 ppm	0.0005 ppm	-0.0038 ppm	-0.0004 ppm	0.0231 ppm
Concentration per Run 2	0.8814 ppm	0.0020 ppm	0.0656 ppm	0.0000 ppm	-0.0030 ppm	-0.0003 ppm	0.0231 ppm
Concentration per Run 3	0.8789 ppm	0.0023 ppm	0.0655 ppm	-0.0001 ppm	-0.0043 ppm	-0.0002 ppm	0.0233 ppm
Concentration RSD	0.3 %	35.3 %	0.2 %	246.7 %	18.7 %	44.9 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.4100 %	96.8663 %	97.4478 %	107.4258 %	86.3695 %	98.3494 %	0.0027 ppm
Concentration per Run 1	96.0540 %	96.1359 %	97.4306 %	107.1830 %	86.3169 %	97.6688 %	0.0027 ppm
Concentration per Run 2	94.8655 %	97.3746 %	97.4137 %	107.5050 %	86.3046 %	98.6494 %	0.0023 ppm
Concentration per Run 3	95.3106 %	97.0885 %	97.4990 %	107.5893 %	86.4868 %	98.7299 %	0.0032 ppm
Concentration RSD	0.6 %	0.7 %	0.0 %	0.2 %	0.1 %	0.6 %	17.1 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: L2472648-06 WG2011116
Analysis started at: 12/19/2024 1:17:30 PM
Rack: 1
Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0523 ppm	0.0025 ppm	0.0100 ppm	0.0512 ppm	0.0000 ppm	20.0210 ppm
Concentration per Run 1	-0.0001 ppm	0.0567 ppm	0.0024 ppm	0.0102 ppm	0.0506 ppm	0.0000 ppm	19.9565 ppm
Concentration per Run 2	0.0003 ppm	0.0447 ppm	0.0017 ppm	0.0100 ppm	0.0511 ppm	0.0000 ppm	20.0162 ppm
Concentration per Run 3	-0.0002 ppm	0.0554 ppm	0.0034 ppm	0.0099 ppm	0.0518 ppm	0.0000 ppm	20.0903 ppm
Concentration RSD	4,205.7 %	12.6 %	34.0 %	1.6 %	1.1 %	271.2 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0039 ppm	0.0005 ppm	0.0061 ppm	0.2445 ppm	1.0446 ppm	1.8064 ppm
Concentration per Run 1	0.0001 ppm	0.0039 ppm	0.0004 ppm	0.0062 ppm	0.2462 ppm	1.0130 ppm	1.8099 ppm
Concentration per Run 2	0.0001 ppm	0.0039 ppm	0.0005 ppm	0.0060 ppm	0.2440 ppm	1.0481 ppm	1.8051 ppm
Concentration per Run 3	0.0001 ppm	0.0040 ppm	0.0005 ppm	0.0061 ppm	0.2433 ppm	1.0728 ppm	1.8043 ppm
Concentration RSD	12.8 %	0.3 %	5.9 %	2.0 %	0.6 %	2.9 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.3878 ppm	0.0004 ppm	137.5240 ppm	0.0043 ppm	0.0552 ppm	0.0021 ppm	0.0026 ppm
Concentration per Run 1	0.3854 ppm	0.0004 ppm	136.2872 ppm	0.0045 ppm	0.0556 ppm	0.0020 ppm	0.0036 ppm
Concentration per Run 2	0.3884 ppm	0.0003 ppm	137.4711 ppm	0.0041 ppm	0.0550 ppm	0.0022 ppm	0.0012 ppm
Concentration per Run 3	0.3895 ppm	0.0004 ppm	138.8138 ppm	0.0042 ppm	0.0551 ppm	0.0022 ppm	0.0028 ppm
Concentration RSD	0.5 %	22.0 %	0.9 %	4.5 %	0.5 %	6.0 %	47.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.8275 ppm	0.0012 ppm	0.0719 ppm	0.0003 ppm	-0.0039 ppm	-0.0004 ppm	0.0240 ppm
Concentration per Run 1	0.8294 ppm	0.0012 ppm	0.0714 ppm	0.0005 ppm	-0.0039 ppm	-0.0004 ppm	0.0238 ppm
Concentration per Run 2	0.8278 ppm	0.0009 ppm	0.0717 ppm	0.0003 ppm	-0.0040 ppm	-0.0005 ppm	0.0240 ppm
Concentration per Run 3	0.8253 ppm	0.0015 ppm	0.0725 ppm	0.0000 ppm	-0.0037 ppm	-0.0005 ppm	0.0241 ppm
Concentration RSD	0.3 %	21.8 %	0.8 %	111.2 %	4.6 %	15.2 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.3172 %	96.7975 %	96.8044 %	107.5957 %	85.4346 %	98.6829 %	0.0031 ppm
Concentration per Run 1	96.0635 %	96.8552 %	96.7908 %	108.2235 %	85.4995 %	98.7046 %	0.0030 ppm
Concentration per Run 2	95.0214 %	96.8134 %	96.5591 %	107.8239 %	85.0628 %	98.7614 %	0.0028 ppm
Concentration per Run 3	94.8666 %	96.7241 %	97.0634 %	106.7397 %	85.7416 %	98.5827 %	0.0036 ppm
Concentration RSD	0.7 %	0.1 %	0.3 %	0.7 %	0.4 %	0.1 %	12.9 %

LabBook: WG2011242_12192024T6.imexp

Sample: L2472649-02 WG2011116
Analysis started at: 12/19/2024 1:24:07 PM
Rack: 1
Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0056 ppm	0.0016 ppm	0.0077 ppm	0.0383 ppm	0.0000 ppm	34.0009 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0021 ppm	0.0077 ppm	0.0389 ppm	0.0000 ppm	34.4402 ppm
Concentration per Run 2	-0.0001 ppm	0.0056 ppm	0.0010 ppm	0.0082 ppm	0.0380 ppm	0.0000 ppm	33.6831 ppm
Concentration per Run 3	0.0001 ppm	0.0111 ppm	0.0018 ppm	0.0073 ppm	0.0379 ppm	-0.0001 ppm	33.8794 ppm
Concentration RSD	1,767.5 %	99.6 %	36.2 %	6.3 %	1.3 %	201.2 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0043 ppm	0.0034 ppm	0.8317 ppm	7.3350 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0043 ppm	0.0024 ppm	0.8361 ppm	7.3619 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0043 ppm	0.0048 ppm	0.8123 ppm	7.3299 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0042 ppm	0.0031 ppm	0.8468 ppm	7.3134 ppm
Concentration RSD	67.1 %	98.7 %	129.9 %	1.4 %	36.0 %	2.1 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0378 ppm	0.0003 ppm	137.3987 ppm	0.0011 ppm	0.0355 ppm	0.0026 ppm	0.0016 ppm
Concentration per Run 1	0.0380 ppm	0.0006 ppm	139.3806 ppm	0.0010 ppm	0.0358 ppm	0.0022 ppm	0.0017 ppm
Concentration per Run 2	0.0380 ppm	0.0003 ppm	135.7724 ppm	0.0013 ppm	0.0353 ppm	0.0023 ppm	0.0019 ppm
Concentration per Run 3	0.0376 ppm	0.0000 ppm	137.0432 ppm	0.0010 ppm	0.0354 ppm	0.0031 ppm	0.0012 ppm
Concentration RSD	0.6 %	86.6 %	1.3 %	15.1 %	0.7 %	18.8 %	22.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.7465 ppm	0.0019 ppm	0.0955 ppm	0.0004 ppm	-0.0023 ppm	0.0000 ppm	0.0145 ppm
Concentration per Run 1	0.7430 ppm	0.0019 ppm	0.0966 ppm	0.0005 ppm	-0.0024 ppm	-0.0001 ppm	0.0143 ppm
Concentration per Run 2	0.7478 ppm	0.0019 ppm	0.0945 ppm	0.0001 ppm	-0.0019 ppm	0.0000 ppm	0.0146 ppm
Concentration per Run 3	0.7487 ppm	0.0021 ppm	0.0954 ppm	0.0004 ppm	-0.0025 ppm	0.0001 ppm	0.0145 ppm
Concentration RSD	0.4 %	7.0 %	1.1 %	64.2 %	15.3 %	2,400.4 %	1.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.2943 %	96.5527 %	96.3823 %	106.3200 %	86.1589 %	98.6189 %	0.0058 ppm
Concentration per Run 1	94.9269 %	96.4891 %	96.7424 %	104.8220 %	86.4467 %	98.5169 %	0.0061 ppm
Concentration per Run 2	95.7265 %	96.5020 %	96.3853 %	107.2457 %	86.3083 %	98.6126 %	0.0058 ppm
Concentration per Run 3	95.2295 %	96.6671 %	96.0192 %	106.8925 %	85.7218 %	98.7274 %	0.0055 ppm
Concentration RSD	0.4 %	0.1 %	0.4 %	1.2 %	0.4 %	0.1 %	5.5 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: L2472649-04 WG2011116
Analysis started at: 12/19/2024 1:30:47 PM
Rack: 1
Vial: 15

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0679 ppm	0.0015 ppm	0.0063 ppm	0.0494 ppm	0.0001 ppm	16.6928 ppm
Concentration per Run 1	0.0003 ppm	0.0657 ppm	0.0018 ppm	0.0062 ppm	0.0493 ppm	0.0001 ppm	16.6373 ppm
Concentration per Run 2	0.0000 ppm	0.0650 ppm	0.0024 ppm	0.0065 ppm	0.0496 ppm	0.0001 ppm	16.7931 ppm
Concentration per Run 3	0.0002 ppm	0.0730 ppm	0.0003 ppm	0.0060 ppm	0.0492 ppm	0.0000 ppm	16.6479 ppm
Concentration RSD	92.4 %	6.5 %	71.6 %	3.8 %	0.5 %	38.8 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	0.0046 ppm	0.0008 ppm	0.0033 ppm	0.4567 ppm	0.5228 ppm	1.0326 ppm
Concentration per Run 1	0.0002 ppm	0.0043 ppm	0.0007 ppm	0.0031 ppm	0.4540 ppm	0.5299 ppm	1.0304 ppm
Concentration per Run 2	0.0001 ppm	0.0044 ppm	0.0008 ppm	0.0035 ppm	0.4599 ppm	0.5302 ppm	1.0297 ppm
Concentration per Run 3	0.0002 ppm	0.0049 ppm	0.0008 ppm	0.0033 ppm	0.4562 ppm	0.5084 ppm	1.0378 ppm
Concentration RSD	18.5 %	6.5 %	9.7 %	6.1 %	0.7 %	2.4 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.3476 ppm	0.0000 ppm	138.3294 ppm	0.0043 ppm	0.0520 ppm	0.0014 ppm	0.0008 ppm
Concentration per Run 1	0.3462 ppm	0.0001 ppm	137.6152 ppm	0.0045 ppm	0.0526 ppm	-0.0002 ppm	0.0016 ppm
Concentration per Run 2	0.3479 ppm	0.0001 ppm	138.9975 ppm	0.0041 ppm	0.0516 ppm	0.0018 ppm	0.0029 ppm
Concentration per Run 3	0.3486 ppm	0.0000 ppm	138.3754 ppm	0.0044 ppm	0.0517 ppm	0.0025 ppm	-0.0021 ppm
Concentration RSD	0.4 %	121.7 %	0.5 %	4.5 %	1.1 %	102.9 %	324.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.8057 ppm	0.0017 ppm	0.0592 ppm	0.0000 ppm	-0.0031 ppm	-0.0002 ppm	0.0314 ppm
Concentration per Run 1	0.8097 ppm	0.0019 ppm	0.0588 ppm	-0.0001 ppm	-0.0026 ppm	-0.0004 ppm	0.0316 ppm
Concentration per Run 2	0.8062 ppm	0.0022 ppm	0.0595 ppm	-0.0001 ppm	-0.0046 ppm	-0.0003 ppm	0.0312 ppm
Concentration per Run 3	0.8012 ppm	0.0011 ppm	0.0594 ppm	0.0001 ppm	-0.0021 ppm	-0.0001 ppm	0.0314 ppm
Concentration RSD	0.5 %	34.0 %	0.7 %	520.1 %	43.5 %	55.8 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	96.0919 %	97.4911 %	96.7763 %	107.9506 %	85.4776 %	99.4073 %	0.0023 ppm
Concentration per Run 1	96.1850 %	97.5432 %	96.7730 %	107.8798 %	84.9670 %	99.3897 %	0.0027 ppm
Concentration per Run 2	95.5731 %	97.4991 %	96.2991 %	107.1985 %	85.3448 %	99.4524 %	0.0013 ppm
Concentration per Run 3	96.5175 %	97.4309 %	97.2569 %	108.7736 %	86.1212 %	99.3800 %	0.0029 ppm
Concentration RSD	0.5 %	0.1 %	0.5 %	0.7 %	0.7 %	0.0 %	38.7 %

LabBook: WG2011242_12192024T6.imexp

Sample: L2472649-06 WG2011116
Analysis started at: 12/19/2024 1:37:25 PM
Rack: 1
Vial: 16

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0115 ppm	0.0043 ppm	0.0055 ppm	0.0611 ppm	0.0000 ppm	11.3568 ppm
Concentration per Run 1	0.0001 ppm	0.0103 ppm	0.0044 ppm	0.0052 ppm	0.0583 ppm	0.0000 ppm	10.8519 ppm
Concentration per Run 2	0.0002 ppm	0.0123 ppm	0.0036 ppm	0.0054 ppm	0.0632 ppm	-0.0001 ppm	11.7866 ppm
Concentration per Run 3	-0.0003 ppm	0.0118 ppm	0.0049 ppm	0.0058 ppm	0.0617 ppm	0.0000 ppm	11.4319 ppm
Concentration RSD	8,084.1 %	9.2 %	15.8 %	5.4 %	4.1 %	30.1 %	4.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	0.0009 ppm	0.0001 ppm	0.0050 ppm	0.0080 ppm	2.6726 ppm	0.4682 ppm
Concentration per Run 1	0.0002 ppm	0.0009 ppm	-0.0001 ppm	0.0048 ppm	0.0072 ppm	2.5376 ppm	0.4669 ppm
Concentration per Run 2	0.0001 ppm	0.0009 ppm	0.0003 ppm	0.0053 ppm	0.0086 ppm	2.7600 ppm	0.4687 ppm
Concentration per Run 3	0.0002 ppm	0.0009 ppm	0.0000 ppm	0.0051 ppm	0.0081 ppm	2.7200 ppm	0.4690 ppm
Concentration RSD	12.6 %	1.9 %	281.2 %	4.4 %	8.7 %	4.4 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0591 ppm	0.0003 ppm	131.4197 ppm	0.0059 ppm	0.4440 ppm	0.1098 ppm	0.0014 ppm
Concentration per Run 1	0.0562 ppm	0.0004 ppm	125.5340 ppm	0.0059 ppm	0.4423 ppm	0.1105 ppm	0.0030 ppm
Concentration per Run 2	0.0615 ppm	0.0001 ppm	135.6403 ppm	0.0058 ppm	0.4451 ppm	0.1095 ppm	0.0011 ppm
Concentration per Run 3	0.0595 ppm	0.0003 ppm	133.0847 ppm	0.0061 ppm	0.4446 ppm	0.1095 ppm	0.0001 ppm
Concentration RSD	4.5 %	46.3 %	4.0 %	3.0 %	0.3 %	0.5 %	106.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.3238 ppm	0.0015 ppm	0.0513 ppm	0.0002 ppm	-0.0028 ppm	-0.0001 ppm	0.0200 ppm
Concentration per Run 1	0.3227 ppm	0.0019 ppm	0.0489 ppm	0.0003 ppm	-0.0019 ppm	0.0000 ppm	0.0199 ppm
Concentration per Run 2	0.3244 ppm	0.0010 ppm	0.0531 ppm	0.0001 ppm	-0.0032 ppm	-0.0002 ppm	0.0199 ppm
Concentration per Run 3	0.3242 ppm	0.0017 ppm	0.0520 ppm	0.0001 ppm	-0.0033 ppm	-0.0001 ppm	0.0202 ppm
Concentration RSD	0.3 %	28.7 %	4.2 %	62.7 %	28.0 %	76.6 %	0.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	96.4616 %	97.7074 %	97.2403 %	108.6435 %	86.0471 %	100.0423 %	0.0030 ppm
Concentration per Run 1	99.8961 %	98.0684 %	97.5097 %	113.5860 %	86.6846 %	100.1266 %	0.0027 ppm
Concentration per Run 2	93.7267 %	97.0269 %	97.1438 %	104.5702 %	85.8091 %	99.5310 %	0.0031 ppm
Concentration per Run 3	95.7619 %	98.0268 %	97.0674 %	107.7741 %	85.6475 %	100.4693 %	0.0033 ppm
Concentration RSD	3.3 %	0.6 %	0.2 %	4.2 %	0.6 %	0.5 %	9.0 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: CCV
Analysis started at: 12/19/2024 1:44:04 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4737 ppm	0.5216 ppm	0.4705 ppm	0.4859 ppm	0.5123 ppm	0.5135 ppm	0.5164 ppm
Concentration per Run 1	0.4744 ppm	0.5202 ppm	0.4736 ppm	0.4892 ppm	0.5111 ppm	0.5111 ppm	0.5147 ppm
Concentration per Run 2	0.4738 ppm	0.4821 ppm	0.4713 ppm	0.4839 ppm	0.4747 ppm	0.4750 ppm	0.4700 ppm
Concentration per Run 3	0.4728 ppm	0.5624 ppm	0.4666 ppm	0.4845 ppm	0.5512 ppm	0.5543 ppm	0.5645 ppm
Recovery Percentage 1	94.740 %	104.315 %	94.105 %	97.178 %	102.462 %	102.690 %	103.282 %
Concentration RSD	0.2 %	7.7 %	0.8 %	0.6 %	7.5 %	7.7 %	9.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4760 ppm	0.5020 ppm	0.4773 ppm	0.4763 ppm	0.4954 ppm	5.4294 ppm	0.4917 ppm
Concentration per Run 1	0.4778 ppm	0.5041 ppm	0.4791 ppm	0.4760 ppm	0.4946 ppm	5.4199 ppm	0.4934 ppm
Concentration per Run 2	0.4767 ppm	0.5020 ppm	0.4765 ppm	0.4774 ppm	0.4581 ppm	5.0423 ppm	0.4887 ppm
Concentration per Run 3	0.4736 ppm	0.4999 ppm	0.4763 ppm	0.4754 ppm	0.5334 ppm	5.8259 ppm	0.4931 ppm
Recovery Percentage 1	95.206 %	100.403 %	95.462 %	95.255 %	99.070 %	108.587 %	98.348 %
Concentration RSD	0.4 %	0.4 %	0.3 %	0.2 %	7.6 %	7.2 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4830 ppm	0.4849 ppm	10.7484 ppm	0.4934 ppm	0.4989 ppm	0.5037 ppm	0.4918 ppm
Concentration per Run 1	0.4803 ppm	0.4865 ppm	10.7264 ppm	0.4951 ppm	0.5024 ppm	0.5054 ppm	0.4943 ppm
Concentration per Run 2	0.4469 ppm	0.4845 ppm	9.9789 ppm	0.4932 ppm	0.4973 ppm	0.5021 ppm	0.4910 ppm
Concentration per Run 3	0.5219 ppm	0.4837 ppm	11.5399 ppm	0.4919 ppm	0.4969 ppm	0.5036 ppm	0.4901 ppm
Recovery Percentage 1	96.607 %	96.979 %	107.484 %	98.683 %	99.773 %	100.745 %	98.362 %
Concentration RSD	7.8 %	0.3 %	7.3 %	0.3 %	0.6 %	0.3 %	0.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.6149 ppm	0.4842 ppm	0.5338 ppm	0.4976 ppm	0.4997 ppm	0.4813 ppm	0.4931 ppm
Concentration per Run 1	5.6461 ppm	0.4873 ppm	0.5324 ppm	0.4991 ppm	0.5007 ppm	0.4822 ppm	0.4940 ppm
Concentration per Run 2	5.5998 ppm	0.4839 ppm	0.4956 ppm	0.4972 ppm	0.4982 ppm	0.4814 ppm	0.4946 ppm
Concentration per Run 3	5.5986 ppm	0.4813 ppm	0.5733 ppm	0.4966 ppm	0.5002 ppm	0.4802 ppm	0.4906 ppm
Recovery Percentage 1	106.950 %	96.832 %	106.750 %	99.529 %	99.941 %	96.252 %	98.615 %
Concentration RSD	0.5 %	0.6 %	7.3 %	0.3 %	0.3 %	0.2 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	93.1016 %	101.7659 %	103.6645 %	103.3977 %	98.0901 %	103.3069 %	0.5355 ppm
Concentration per Run 1	94.7956 %	101.7817 %	103.5065 %	103.8125 %	97.5942 %	103.2583 %	0.5330 ppm
Concentration per Run 2	99.4568 %	101.5368 %	103.8499 %	110.7732 %	98.1139 %	103.0808 %	0.4986 ppm
Concentration per Run 3	85.0523 %	101.9792 %	103.6370 %	95.6075 %	98.5620 %	103.5817 %	0.5750 ppm
Recovery Percentage 1							107.105 %
Concentration RSD	7.9 %	0.2 %	0.2 %	7.3 %	0.5 %	0.2 %	7.2 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: CCB
Analysis started at: 12/19/2024 1:50:30 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0016 ppm	0.0014 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0527 ppm
Concentration per Run 1	0.0001 ppm	-0.0027 ppm	0.0023 ppm	0.0015 ppm	-0.0001 ppm	0.0000 ppm	0.0583 ppm
Concentration per Run 2	-0.0002 ppm	0.0024 ppm	0.0011 ppm	0.0010 ppm	-0.0001 ppm	-0.0001 ppm	0.0519 ppm
Concentration per Run 3	0.0003 ppm	-0.0044 ppm	0.0008 ppm	0.0014 ppm	0.0001 ppm	0.0000 ppm	0.0478 ppm
Recovery Percentage 1	1.081 %	-1.576 %	28.147 %	4.305 %	-0.404 %	-0.520 %	52.672 %
Concentration RSD	286.3 %	224.5 %	58.7 %	19.4 %	212.3 %	127.9 %	10.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0076 ppm	0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm	-0.0183 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0011 ppm	0.0180 ppm	0.0022 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0002 ppm	-0.0003 ppm	-0.0004 ppm	0.0230 ppm	-0.0012 ppm
Recovery Percentage 1	0.331 %	0.312 %	-0.450 %	-1.768 %	0.270 %	0.304 %	0.306 %
Concentration RSD	122.7 %	128.7 %	331.6 %	82.3 %	608.1 %	296.9 %	565.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0004 ppm	0.0006 ppm	0.0151 ppm	0.0001 ppm	0.0007 ppm	0.0019 ppm	-0.0007 ppm
Concentration per Run 1	-0.0001 ppm	0.0007 ppm	0.0157 ppm	0.0001 ppm	0.0006 ppm	0.0013 ppm	-0.0016 ppm
Concentration per Run 2	-0.0007 ppm	0.0005 ppm	0.0158 ppm	0.0001 ppm	0.0005 ppm	0.0019 ppm	0.0010 ppm
Concentration per Run 3	-0.0005 ppm	0.0006 ppm	0.0138 ppm	0.0000 ppm	0.0008 ppm	0.0023 ppm	-0.0015 ppm
Recovery Percentage 1	-4.095 %	1.205 %	0.757 %	0.230 %	6.640 %	3.743 %	-6.811 %
Concentration RSD	77.1 %	9.6 %	7.5 %	160.1 %	24.3 %	26.6 %	217.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0019 ppm	0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0000 ppm	-0.0011 ppm
Concentration per Run 1	0.0020 ppm	0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0013 ppm	-0.0001 ppm	-0.0011 ppm
Concentration per Run 2	0.0022 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm	0.0013 ppm	0.0000 ppm	-0.0011 ppm
Concentration per Run 3	0.0016 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0009 ppm	0.0000 ppm	-0.0011 ppm
Recovery Percentage 1	0.386 %	0.202 %	0.593 %	1.415 %	2.864 %	-0.287 %	-22.444 %
Concentration RSD	15.3 %	98.2 %	121.5 %	240.6 %	220.5 %	222.4 %	0.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	96.0795 %	101.9260 %	103.2430 %	101.2577 %	99.9308 %	102.1108 %	-0.0002 ppm
Concentration per Run 1	94.9612 %	101.6411 %	103.2684 %	96.2999 %	99.5103 %	101.6022 %	0.0001 ppm
Concentration per Run 2	96.4870 %	102.0121 %	103.5524 %	102.7798 %	100.1172 %	102.1593 %	-0.0002 ppm
Concentration per Run 3	96.7903 %	102.1248 %	102.9083 %	104.6934 %	100.1648 %	102.5708 %	-0.0004 ppm
Recovery Percentage 1							-1.605 %
Concentration RSD	1.0 %	0.2 %	0.3 %	4.3 %	0.4 %	0.5 %	161.3 %

LabBook: WG2011242_12192024T6.imexp

Sample: L2472649-08 WG2011116
Analysis started at: 12/19/2024 2:02:39 PM
Rack: 1
Vial: 17

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0445 ppm	0.0037 ppm	0.0049 ppm	0.0555 ppm	0.0001 ppm	10.9195 ppm
Concentration per Run 1	0.0002 ppm	0.0432 ppm	0.0034 ppm	0.0050 ppm	0.0559 ppm	0.0001 ppm	10.9872 ppm
Concentration per Run 2	-0.0002 ppm	0.0432 ppm	0.0026 ppm	0.0051 ppm	0.0555 ppm	0.0001 ppm	10.9017 ppm
Concentration per Run 3	0.0001 ppm	0.0469 ppm	0.0050 ppm	0.0046 ppm	0.0551 ppm	0.0001 ppm	10.8695 ppm
Concentration RSD	518.5 %	4.8 %	32.7 %	6.3 %	0.7 %	13.6 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0043 ppm	0.0000 ppm	0.0039 ppm	0.7389 ppm	0.6779 ppm	0.3943 ppm
Concentration per Run 1	0.0001 ppm	0.0042 ppm	0.0001 ppm	0.0038 ppm	0.7413 ppm	0.6978 ppm	0.3952 ppm
Concentration per Run 2	0.0001 ppm	0.0044 ppm	0.0000 ppm	0.0039 ppm	0.7342 ppm	0.6641 ppm	0.3937 ppm
Concentration per Run 3	0.0001 ppm	0.0043 ppm	0.0000 ppm	0.0040 ppm	0.7411 ppm	0.6718 ppm	0.3939 ppm
Concentration RSD	27.4 %	2.3 %	170.5 %	2.7 %	0.5 %	2.6 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.3715 ppm	0.0003 ppm	132.8558 ppm	0.0083 ppm	0.1035 ppm	0.0033 ppm	0.0036 ppm
Concentration per Run 1	0.3754 ppm	0.0003 ppm	133.4898 ppm	0.0085 ppm	0.1033 ppm	0.0024 ppm	0.0024 ppm
Concentration per Run 2	0.3692 ppm	0.0003 ppm	132.4283 ppm	0.0085 ppm	0.1033 ppm	0.0034 ppm	0.0052 ppm
Concentration per Run 3	0.3700 ppm	0.0005 ppm	132.6494 ppm	0.0081 ppm	0.1038 ppm	0.0040 ppm	0.0030 ppm
Concentration RSD	0.9 %	31.4 %	0.4 %	2.8 %	0.3 %	25.0 %	41.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.1675 ppm	0.0015 ppm	0.0317 ppm	0.0001 ppm	-0.0029 ppm	-0.0003 ppm	0.0384 ppm
Concentration per Run 1	0.1680 ppm	0.0012 ppm	0.0319 ppm	0.0004 ppm	-0.0015 ppm	-0.0004 ppm	0.0385 ppm
Concentration per Run 2	0.1677 ppm	0.0025 ppm	0.0317 ppm	0.0001 ppm	-0.0031 ppm	-0.0002 ppm	0.0385 ppm
Concentration per Run 3	0.1666 ppm	0.0009 ppm	0.0316 ppm	-0.0001 ppm	-0.0041 ppm	-0.0003 ppm	0.0384 ppm
Concentration RSD	0.4 %	55.6 %	0.5 %	207.4 %	46.2 %	42.8 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.5987 %	98.2319 %	98.1408 %	107.6944 %	86.9928 %	100.0726 %	0.0023 ppm
Concentration per Run 1	95.7652 %	98.1743 %	98.3857 %	106.9118 %	87.0196 %	100.1679 %	0.0017 ppm
Concentration per Run 2	95.2936 %	98.4867 %	97.9236 %	107.8530 %	87.0092 %	100.3772 %	0.0022 ppm
Concentration per Run 3	95.7374 %	98.0346 %	98.1131 %	108.3184 %	86.9496 %	99.6727 %	0.0029 ppm
Concentration RSD	0.3 %	0.2 %	0.2 %	0.7 %	0.0 %	0.4 %	25.5 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: L2472649-10 WG2011116
Analysis started at: 12/19/2024 2:09:21 PM
Rack: 1
Vial: 18

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0123 ppm	0.0008 ppm	0.0056 ppm	0.0219 ppm	0.0000 ppm	58.2566 ppm
Concentration per Run 1	-0.0002 ppm	0.0090 ppm	0.0017 ppm	0.0053 ppm	0.0219 ppm	0.0000 ppm	58.0868 ppm
Concentration per Run 2	0.0001 ppm	0.0149 ppm	-0.0009 ppm	0.0054 ppm	0.0219 ppm	0.0000 ppm	58.2242 ppm
Concentration per Run 3	0.0002 ppm	0.0129 ppm	0.0015 ppm	0.0060 ppm	0.0218 ppm	-0.0001 ppm	58.4590 ppm
Concentration RSD	693.1 %	24.3 %	195.3 %	6.8 %	0.3 %	235.6 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0021 ppm	0.0000 ppm	0.0041 ppm	0.0032 ppm	0.7285 ppm	0.9358 ppm
Concentration per Run 1	0.0000 ppm	0.0023 ppm	0.0000 ppm	0.0040 ppm	0.0023 ppm	0.7316 ppm	0.9323 ppm
Concentration per Run 2	0.0000 ppm	0.0020 ppm	-0.0001 ppm	0.0041 ppm	0.0040 ppm	0.7199 ppm	0.9384 ppm
Concentration per Run 3	0.0000 ppm	0.0020 ppm	0.0001 ppm	0.0042 ppm	0.0034 ppm	0.7340 ppm	0.9365 ppm
Concentration RSD	174.6 %	8.1 %	443.4 %	2.2 %	27.2 %	1.0 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2292 ppm	0.0004 ppm	137.6475 ppm	0.0021 ppm	0.0089 ppm	0.0009 ppm	0.0031 ppm
Concentration per Run 1	0.2283 ppm	0.0003 ppm	137.5509 ppm	0.0020 ppm	0.0092 ppm	0.0012 ppm	0.0026 ppm
Concentration per Run 2	0.2286 ppm	0.0001 ppm	137.5133 ppm	0.0023 ppm	0.0095 ppm	0.0010 ppm	0.0027 ppm
Concentration per Run 3	0.2306 ppm	0.0006 ppm	137.8784 ppm	0.0019 ppm	0.0081 ppm	0.0006 ppm	0.0041 ppm
Concentration RSD	0.5 %	76.7 %	0.1 %	10.9 %	8.2 %	32.1 %	28.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.2989 ppm	0.0016 ppm	0.1307 ppm	0.0000 ppm	-0.0028 ppm	-0.0002 ppm	0.0116 ppm
Concentration per Run 1	0.2956 ppm	0.0016 ppm	0.1304 ppm	0.0001 ppm	-0.0042 ppm	-0.0004 ppm	0.0115 ppm
Concentration per Run 2	0.2965 ppm	0.0019 ppm	0.1306 ppm	0.0000 ppm	-0.0024 ppm	-0.0001 ppm	0.0115 ppm
Concentration per Run 3	0.3048 ppm	0.0013 ppm	0.1312 ppm	0.0000 ppm	-0.0019 ppm	-0.0003 ppm	0.0117 ppm
Concentration RSD	1.7 %	17.8 %	0.3 %	121.7 %	43.3 %	68.2 %	1.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.4286 %	97.0987 %	96.0966 %	108.1246 %	85.3354 %	99.8686 %	0.0035 ppm
Concentration per Run 1	96.2856 %	97.2374 %	96.1090 %	108.2896 %	85.4494 %	100.1005 %	0.0045 ppm
Concentration per Run 2	95.2495 %	97.0688 %	96.6021 %	108.5655 %	86.1425 %	99.8936 %	0.0032 ppm
Concentration per Run 3	94.7508 %	96.9899 %	95.5788 %	107.5188 %	84.4143 %	99.6118 %	0.0029 ppm
Concentration RSD	0.8 %	0.1 %	0.5 %	0.5 %	1.0 %	0.2 %	23.8 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: L2472649-12 WG2011116
Analysis started at: 12/19/2024 2:15:59 PM
Rack: 1
Vial: 19

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0389 ppm	0.0015 ppm	0.0052 ppm	0.0725 ppm	0.0000 ppm	16.8917 ppm
Concentration per Run 1	0.0002 ppm	0.0406 ppm	0.0015 ppm	0.0053 ppm	0.0717 ppm	0.0001 ppm	16.7826 ppm
Concentration per Run 2	-0.0002 ppm	0.0360 ppm	0.0014 ppm	0.0052 ppm	0.0730 ppm	0.0000 ppm	16.9662 ppm
Concentration per Run 3	0.0002 ppm	0.0400 ppm	0.0016 ppm	0.0052 ppm	0.0729 ppm	0.0000 ppm	16.9263 ppm
Concentration RSD	526.6 %	6.5 %	8.2 %	0.5 %	1.0 %	64.3 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0039 ppm	0.0004 ppm	0.0178 ppm	0.0820 ppm	0.6673 ppm	0.9704 ppm
Concentration per Run 1	0.0001 ppm	0.0039 ppm	0.0006 ppm	0.0179 ppm	0.0798 ppm	0.6804 ppm	0.9700 ppm
Concentration per Run 2	0.0001 ppm	0.0039 ppm	0.0002 ppm	0.0178 ppm	0.0841 ppm	0.6285 ppm	0.9697 ppm
Concentration per Run 3	0.0001 ppm	0.0039 ppm	0.0004 ppm	0.0179 ppm	0.0821 ppm	0.6931 ppm	0.9715 ppm
Concentration RSD	39.7 %	1.2 %	42.9 %	0.4 %	2.7 %	5.1 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2545 ppm	0.0002 ppm	134.7640 ppm	0.0079 ppm	0.0988 ppm	0.0052 ppm	0.0009 ppm
Concentration per Run 1	0.2534 ppm	0.0003 ppm	133.6295 ppm	0.0078 ppm	0.0977 ppm	0.0043 ppm	0.0017 ppm
Concentration per Run 2	0.2549 ppm	0.0000 ppm	135.8039 ppm	0.0079 ppm	0.0993 ppm	0.0057 ppm	-0.0002 ppm
Concentration per Run 3	0.2551 ppm	0.0002 ppm	134.8587 ppm	0.0080 ppm	0.0993 ppm	0.0056 ppm	0.0011 ppm
Concentration RSD	0.4 %	81.8 %	0.8 %	1.5 %	1.0 %	15.0 %	111.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.3742 ppm	0.0016 ppm	0.0414 ppm	0.0001 ppm	-0.0018 ppm	-0.0003 ppm	0.0630 ppm
Concentration per Run 1	0.3734 ppm	0.0015 ppm	0.0410 ppm	0.0000 ppm	-0.0024 ppm	-0.0004 ppm	0.0633 ppm
Concentration per Run 2	0.3752 ppm	0.0010 ppm	0.0416 ppm	0.0001 ppm	-0.0021 ppm	-0.0003 ppm	0.0627 ppm
Concentration per Run 3	0.3742 ppm	0.0022 ppm	0.0415 ppm	0.0001 ppm	-0.0008 ppm	-0.0001 ppm	0.0629 ppm
Concentration RSD	0.2 %	38.6 %	0.8 %	95.2 %	46.7 %	59.8 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	96.3213 %	97.7737 %	97.6146 %	109.0225 %	86.5580 %	99.9622 %	0.0022 ppm
Concentration per Run 1	97.2656 %	97.6603 %	98.1168 %	109.3502 %	87.0795 %	99.9619 %	0.0025 ppm
Concentration per Run 2	95.6629 %	97.5744 %	97.0482 %	108.6224 %	86.2108 %	99.9182 %	0.0018 ppm
Concentration per Run 3	96.0353 %	98.0865 %	97.6788 %	109.0949 %	86.3835 %	100.0066 %	0.0024 ppm
Concentration RSD	0.9 %	0.3 %	0.6 %	0.3 %	0.5 %	0.0 %	16.3 %

LabBook: WG2011242_12192024T6.imexp

Sample: L2472939-01 WG2011116
Analysis started at: 12/19/2024 2:22:39 PM
Rack: 1
Vial: 20

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0333 ppm	0.0026 ppm	0.0050 ppm	0.0694 ppm	0.0000 ppm	3.6982 ppm
Concentration per Run 1	0.0006 ppm	0.0347 ppm	0.0012 ppm	0.0052 ppm	0.0684 ppm	0.0000 ppm	3.6248 ppm
Concentration per Run 2	0.0003 ppm	0.0351 ppm	0.0037 ppm	0.0049 ppm	0.0702 ppm	0.0000 ppm	3.7599 ppm
Concentration per Run 3	0.0002 ppm	0.0301 ppm	0.0030 ppm	0.0050 ppm	0.0698 ppm	0.0000 ppm	3.7098 ppm
Concentration RSD	63.0 %	8.3 %	49.1 %	3.8 %	1.4 %	620.9 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0014 ppm	0.0010 ppm	-0.0001 ppm	0.1047 ppm	0.0305 ppm	0.4412 ppm	0.1524 ppm
Concentration per Run 1	0.0014 ppm	0.0009 ppm	0.0001 ppm	0.1048 ppm	0.0306 ppm	0.4375 ppm	0.1528 ppm
Concentration per Run 2	0.0014 ppm	0.0009 ppm	-0.0005 ppm	0.1047 ppm	0.0311 ppm	0.4442 ppm	0.1517 ppm
Concentration per Run 3	0.0014 ppm	0.0011 ppm	0.0002 ppm	0.1045 ppm	0.0296 ppm	0.4419 ppm	0.1528 ppm
Concentration RSD	0.6 %	11.4 %	445.4 %	0.1 %	2.5 %	0.8 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1310 ppm	0.0002 ppm	132.8974 ppm	0.0036 ppm	0.1114 ppm	0.0014 ppm	0.0027 ppm
Concentration per Run 1	0.1285 ppm	0.0003 ppm	130.8869 ppm	0.0040 ppm	0.1110 ppm	0.0005 ppm	0.0013 ppm
Concentration per Run 2	0.1330 ppm	0.0002 ppm	134.5898 ppm	0.0032 ppm	0.1119 ppm	0.0023 ppm	0.0021 ppm
Concentration per Run 3	0.1316 ppm	0.0001 ppm	133.2155 ppm	0.0037 ppm	0.1111 ppm	0.0013 ppm	0.0047 ppm
Concentration RSD	1.8 %	41.0 %	1.4 %	10.8 %	0.4 %	66.0 %	66.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.2184 ppm	0.0018 ppm	0.0193 ppm	0.0001 ppm	-0.0033 ppm	-0.0001 ppm	0.3671 ppm
Concentration per Run 1	0.2185 ppm	0.0016 ppm	0.0191 ppm	0.0002 ppm	-0.0045 ppm	-0.0003 ppm	0.3667 ppm
Concentration per Run 2	0.2201 ppm	0.0016 ppm	0.0195 ppm	-0.0001 ppm	-0.0034 ppm	-0.0001 ppm	0.3678 ppm
Concentration per Run 3	0.2167 ppm	0.0021 ppm	0.0193 ppm	0.0003 ppm	-0.0020 ppm	0.0000 ppm	0.3668 ppm
Concentration RSD	0.8 %	16.1 %	1.0 %	197.0 %	37.6 %	134.2 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.3210 %	97.9991 %	97.4478 %	108.3784 %	86.5919 %	100.0104 %	0.0012 ppm
Concentration per Run 1	97.2668 %	98.2478 %	96.8386 %	110.1834 %	86.6766 %	99.8514 %	0.0010 ppm
Concentration per Run 2	93.9767 %	98.0583 %	97.6185 %	107.2337 %	86.0884 %	100.1162 %	0.0006 ppm
Concentration per Run 3	94.7194 %	97.6913 %	97.8864 %	107.7179 %	87.0106 %	100.0637 %	0.0018 ppm
Concentration RSD	1.8 %	0.3 %	0.6 %	1.5 %	0.5 %	0.1 %	52.8 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: CCV
Analysis started at: 12/19/2024 2:29:21 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4747 ppm	0.4981 ppm	0.4718 ppm	0.4849 ppm	0.4974 ppm	0.4961 ppm	0.4942 ppm
Concentration per Run 1	0.4790 ppm	0.5179 ppm	0.4695 ppm	0.4846 ppm	0.5167 ppm	0.5163 ppm	0.5216 ppm
Concentration per Run 2	0.4733 ppm	0.4896 ppm	0.4714 ppm	0.4836 ppm	0.4899 ppm	0.4895 ppm	0.4837 ppm
Concentration per Run 3	0.4718 ppm	0.4869 ppm	0.4746 ppm	0.4865 ppm	0.4856 ppm	0.4825 ppm	0.4774 ppm
Recovery Percentage 1	94.942 %	99.622 %	94.366 %	96.981 %	99.485 %	99.215 %	98.850 %
Concentration RSD	0.8 %	3.4 %	0.6 %	0.3 %	3.4 %	3.6 %	4.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4764 ppm	0.5012 ppm	0.4838 ppm	0.4813 ppm	0.4768 ppm	5.2394 ppm	0.4956 ppm
Concentration per Run 1	0.4764 ppm	0.5010 ppm	0.4860 ppm	0.4880 ppm	0.4928 ppm	5.4311 ppm	0.4986 ppm
Concentration per Run 2	0.4768 ppm	0.5011 ppm	0.4835 ppm	0.4796 ppm	0.4726 ppm	5.1741 ppm	0.4945 ppm
Concentration per Run 3	0.4761 ppm	0.5017 ppm	0.4818 ppm	0.4763 ppm	0.4651 ppm	5.1131 ppm	0.4938 ppm
Recovery Percentage 1	95.287 %	100.250 %	96.753 %	96.259 %	95.367 %	104.788 %	99.129 %
Concentration RSD	0.1 %	0.1 %	0.4 %	1.2 %	3.0 %	3.2 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4618 ppm	0.4847 ppm	10.3357 ppm	0.4945 ppm	0.4996 ppm	0.5047 ppm	0.4919 ppm
Concentration per Run 1	0.4811 ppm	0.4838 ppm	10.7199 ppm	0.4946 ppm	0.4989 ppm	0.5031 ppm	0.4914 ppm
Concentration per Run 2	0.4558 ppm	0.4840 ppm	10.1945 ppm	0.4944 ppm	0.5002 ppm	0.5054 ppm	0.4929 ppm
Concentration per Run 3	0.4485 ppm	0.4863 ppm	10.0929 ppm	0.4946 ppm	0.4998 ppm	0.5056 ppm	0.4914 ppm
Recovery Percentage 1	92.354 %	96.941 %	103.357 %	98.906 %	99.923 %	100.941 %	98.379 %
Concentration RSD	3.7 %	0.3 %	3.3 %	0.0 %	0.1 %	0.3 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.6028 ppm	0.4862 ppm	0.5145 ppm	0.4979 ppm	0.5019 ppm	0.4827 ppm	0.4908 ppm
Concentration per Run 1	5.5921 ppm	0.4861 ppm	0.5344 ppm	0.5018 ppm	0.5019 ppm	0.4860 ppm	0.4906 ppm
Concentration per Run 2	5.5980 ppm	0.4863 ppm	0.5068 ppm	0.4967 ppm	0.5016 ppm	0.4809 ppm	0.4912 ppm
Concentration per Run 3	5.6182 ppm	0.4862 ppm	0.5022 ppm	0.4952 ppm	0.5022 ppm	0.4811 ppm	0.4908 ppm
Recovery Percentage 1	106.720 %	97.246 %	102.897 %	99.580 %	100.386 %	96.533 %	98.167 %
Concentration RSD	0.2 %	0.0 %	3.4 %	0.7 %	0.1 %	0.6 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	96.9168 %	101.4073 %	103.6844 %	107.6243 %	98.4320 %	102.7113 %	0.5133 ppm
Concentration per Run 1	95.0633 %	100.5689 %	103.8583 %	103.7287 %	98.6616 %	101.2980 %	0.5308 ppm
Concentration per Run 2	97.8370 %	101.7819 %	103.7131 %	108.8330 %	98.5370 %	103.2570 %	0.5065 ppm
Concentration per Run 3	97.8501 %	101.8712 %	103.4817 %	110.3110 %	98.0972 %	103.5788 %	0.5024 ppm
Recovery Percentage 1							102.651 %
Concentration RSD	1.7 %	0.7 %	0.2 %	3.2 %	0.3 %	1.2 %	3.0 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: CCB
Analysis started at: 12/19/2024 2:35:46 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0020 ppm	0.0007 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0571 ppm
Concentration per Run 1	0.0003 ppm	-0.0048 ppm	0.0000 ppm	0.0016 ppm	0.0000 ppm	0.0000 ppm	0.0618 ppm
Concentration per Run 2	0.0001 ppm	-0.0021 ppm	0.0011 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0567 ppm
Concentration per Run 3	0.0002 ppm	0.0008 ppm	0.0009 ppm	0.0009 ppm	0.0000 ppm	-0.0001 ppm	0.0529 ppm
Recovery Percentage 1	2.732 %	-2.040 %	13.748 %	3.602 %	-0.101 %	-0.523 %	57.105 %
Concentration RSD	50.8 %	135.7 %	82.1 %	39.2 %	265.3 %	116.5 %	7.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	-0.0003 ppm	0.0005 ppm	0.0085 ppm	-0.0017 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0003 ppm	-0.0003 ppm	-0.0003 ppm	0.0362 ppm	-0.0010 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0023 ppm	-0.0296 ppm	-0.0021 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	-0.0001 ppm	-0.0003 ppm	-0.0003 ppm	0.0188 ppm	-0.0020 ppm
Recovery Percentage 1	0.399 %	-0.614 %	-1.425 %	-2.619 %	1.086 %	0.339 %	-1.701 %
Concentration RSD	265.2 %	144.3 %	126.0 %	10.5 %	280.2 %	402.0 %	34.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0003 ppm	0.0006 ppm	0.0164 ppm	-0.0001 ppm	0.0002 ppm	0.0005 ppm	-0.0003 ppm
Concentration per Run 1	-0.0004 ppm	0.0006 ppm	0.0165 ppm	-0.0001 ppm	0.0008 ppm	-0.0006 ppm	-0.0004 ppm
Concentration per Run 2	-0.0002 ppm	0.0006 ppm	0.0170 ppm	0.0000 ppm	0.0004 ppm	0.0009 ppm	-0.0009 ppm
Concentration per Run 3	-0.0002 ppm	0.0006 ppm	0.0158 ppm	-0.0001 ppm	-0.0005 ppm	0.0012 ppm	0.0004 ppm
Recovery Percentage 1	-2.656 %	1.185 %	0.821 %	-0.262 %	2.203 %	0.913 %	-2.760 %
Concentration RSD	45.7 %	7.2 %	3.8 %	77.3 %	288.5 %	212.0 %	245.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0017 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0010 ppm	-0.0002 ppm	-0.0010 ppm
Concentration per Run 1	0.0018 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0014 ppm	-0.0004 ppm	-0.0011 ppm
Concentration per Run 2	0.0015 ppm	0.0002 ppm	0.0001 ppm	-0.0001 ppm	0.0007 ppm	-0.0003 ppm	-0.0009 ppm
Concentration per Run 3	0.0017 ppm	-0.0007 ppm	0.0001 ppm	0.0003 ppm	0.0011 ppm	-0.0001 ppm	-0.0009 ppm
Recovery Percentage 1	0.334 %	-0.030 %	0.854 %	0.859 %	5.226 %	-2.408 %	-19.762 %
Concentration RSD	10.5 %	4,043.8 %	81.3 %	258.7 %	36.9 %	57.9 %	12.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	96.3174 %	102.2277 %	104.0395 %	101.6030 %	100.6194 %	102.4686 %	0.0011 ppm
Concentration per Run 1	94.5827 %	102.1262 %	104.1700 %	95.6580 %	100.2099 %	102.2795 %	0.0015 ppm
Concentration per Run 2	97.6193 %	102.1585 %	103.7856 %	104.0168 %	100.6096 %	102.4864 %	0.0002 ppm
Concentration per Run 3	96.7502 %	102.3985 %	104.1629 %	105.1343 %	101.0387 %	102.6399 %	0.0017 ppm
Recovery Percentage 1							11.363 %
Concentration RSD	1.6 %	0.1 %	0.2 %	5.1 %	0.4 %	0.2 %	75.5 %

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010972-1 WG2010972
Analysis started at: 12/19/2024 3:06:42 PM
Rack: 1
Vial: 21

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0004 ppm	0.0021 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0093 ppm
Concentration per Run 1	0.0000 ppm	0.0054 ppm	0.0020 ppm	0.0004 ppm	-0.0001 ppm	0.0001 ppm	0.0070 ppm
Concentration per Run 2	0.0000 ppm	-0.0037 ppm	0.0030 ppm	0.0004 ppm	-0.0001 ppm	-0.0001 ppm	0.0069 ppm
Concentration per Run 3	0.0001 ppm	-0.0004 ppm	0.0012 ppm	0.0002 ppm	0.0001 ppm	-0.0001 ppm	0.0139 ppm
Recovery Percentage 1	0.443 %	0.403 %	41.527 %	1.135 %	-0.243 %	-0.461 %	9.252 %
Concentration RSD	195.7 %	1,147.2 %	44.1 %	29.2 %	343.8 %	281.4 %	43.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0037 ppm	0.0015 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0000 ppm	-0.0003 ppm	0.0040 ppm	0.0023 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0001 ppm	-0.0002 ppm	-0.0004 ppm	0.0306 ppm	0.0019 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0002 ppm	-0.0235 ppm	0.0002 ppm
Recovery Percentage 1	-0.257 %	-0.071 %	0.169 %	0.106 %	-0.361 %	0.148 %	1.456 %
Concentration RSD	59.9 %	1,402.5 %	599.4 %	2,361.9 %	194.7 %	729.3 %	78.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0050 ppm	0.0002 ppm	0.0010 ppm	0.0000 ppm	-0.0011 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0027 ppm	0.0003 ppm	0.0010 ppm	0.0001 ppm	-0.0012 ppm
Concentration per Run 2	-0.0003 ppm	0.0001 ppm	0.0016 ppm	0.0002 ppm	0.0009 ppm	0.0002 ppm	-0.0022 ppm
Concentration per Run 3	0.0003 ppm	0.0002 ppm	0.0105 ppm	0.0000 ppm	0.0010 ppm	-0.0002 ppm	0.0001 ppm
Recovery Percentage 1	-0.099 %	0.147 %	0.248 %	0.672 %	9.618 %	0.075 %	-10.788 %
Concentration RSD	3,325.3 %	193.7 %	97.9 %	81.3 %	6.7 %	562.0 %	104.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0032 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0020 ppm	-0.0001 ppm	-0.0006 ppm
Concentration per Run 1	0.0033 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0017 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 2	0.0034 ppm	-0.0003 ppm	0.0000 ppm	0.0002 ppm	0.0022 ppm	-0.0004 ppm	-0.0006 ppm
Concentration per Run 3	0.0029 ppm	0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0021 ppm	0.0000 ppm	-0.0006 ppm
Recovery Percentage 1	0.637 %	-0.083 %	0.566 %	1.248 %	10.068 %	-1.055 %	-12.667 %
Concentration RSD	9.1 %	475.0 %	156.3 %	55.6 %	15.5 %	201.0 %	9.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	96.9153 %	103.4843 %	104.8226 %	105.1074 %	103.3432 %	104.0058 %	0.0000 ppm
Concentration per Run 1	94.3319 %	103.6915 %	104.9062 %	98.8059 %	103.4053 %	104.1559 %	-0.0005 ppm
Concentration per Run 2	98.4830 %	103.6164 %	104.6973 %	107.5909 %	102.8552 %	104.1013 %	0.0001 ppm
Concentration per Run 3	97.9312 %	103.1450 %	104.8643 %	108.9255 %	103.7691 %	103.7601 %	0.0005 ppm
Recovery Percentage 1							0.265 %
Concentration RSD	2.3 %	0.3 %	0.1 %	5.2 %	0.4 %	0.2 %	2,045.2 %

LabBook: WG2011242_12192024T6.imexp

Sample: L2473010-02 WG2010972
Analysis started at: 12/19/2024 3:13:27 PM
Rack: 1
Vial: 29

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0040 ppm	0.0007 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0220 ppm
Concentration per Run 1	0.0001 ppm	0.0097 ppm	0.0009 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0255 ppm
Concentration per Run 2	0.0002 ppm	-0.0026 ppm	0.0007 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0210 ppm
Concentration per Run 3	-0.0001 ppm	0.0049 ppm	0.0005 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0197 ppm
Concentration RSD	148.6 %	153.5 %	24.2 %	69.1 %	1,742.4 %	103.1 %	13.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0038 ppm	0.0058 ppm	0.0031 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0038 ppm	-0.0016 ppm	0.0026 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0037 ppm	0.0313 ppm	0.0015 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0038 ppm	-0.0123 ppm	0.0052 ppm
Concentration RSD	286.1 %	215.3 %	32.1 %	40.2 %	2.1 %	391.0 %	61.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0041 ppm	-0.0002 ppm	0.0175 ppm	0.0002 ppm	0.0004 ppm	0.0002 ppm	0.0006 ppm
Concentration per Run 1	0.0043 ppm	-0.0003 ppm	0.0194 ppm	0.0002 ppm	0.0006 ppm	0.0005 ppm	0.0020 ppm
Concentration per Run 2	0.0037 ppm	-0.0002 ppm	0.0229 ppm	0.0002 ppm	0.0000 ppm	-0.0005 ppm	-0.0003 ppm
Concentration per Run 3	0.0041 ppm	0.0000 ppm	0.0103 ppm	0.0003 ppm	0.0004 ppm	0.0006 ppm	-0.0001 ppm
Concentration RSD	6.9 %	85.0 %	36.9 %	32.1 %	83.3 %	292.9 %	233.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0136 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0009 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 1	0.0138 ppm	0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0015 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 2	0.0135 ppm	-0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0003 ppm	-0.0002 ppm	-0.0008 ppm
Concentration per Run 3	0.0135 ppm	0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0011 ppm	0.0000 ppm	-0.0008 ppm
Concentration RSD	1.1 %	1,017.6 %	105.8 %	157.2 %	65.9 %	260.8 %	3.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	97.8171 %	103.5533 %	104.9820 %	93.8566 %	100.7406 %	101.1254 %	0.0011 ppm
Concentration per Run 1	95.1822 %	104.2882 %	104.9105 %	85.6476 %	99.8492 %	101.3735 %	0.0014 ppm
Concentration per Run 2	99.5662 %	103.7403 %	105.0483 %	96.5879 %	100.9607 %	101.5040 %	-0.0001 ppm
Concentration per Run 3	98.7028 %	102.6313 %	104.9873 %	99.3342 %	101.4120 %	100.4989 %	0.0018 ppm
Concentration RSD	2.4 %	0.8 %	0.1 %	7.7 %	0.8 %	0.5 %	94.3 %

LabBook: WG2011242_12192024T6.imexp

Sample: L2473251-03 WG2010972
Analysis started at: 12/19/2024 3:20:12 PM
Rack: 1
Vial: 39

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0012 ppm	-0.0003 ppm	0.0008 ppm	0.0002 ppm	0.0000 ppm	0.0400 ppm
Concentration per Run 1	0.0005 ppm	0.0015 ppm	-0.0015 ppm	0.0008 ppm	0.0003 ppm	0.0000 ppm	0.0506 ppm
Concentration per Run 2	-0.0001 ppm	0.0033 ppm	0.0000 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0380 ppm
Concentration per Run 3	-0.0001 ppm	-0.0012 ppm	0.0005 ppm	0.0009 ppm	0.0002 ppm	0.0000 ppm	0.0314 ppm
Concentration RSD	261.3 %	186.7 %	328.4 %	4.4 %	59.7 %	34.7 %	24.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0010 ppm	0.0077 ppm	0.0074 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0011 ppm	0.0103 ppm	0.0076 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0005 ppm	0.0016 ppm	0.0063 ppm	0.0073 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0065 ppm	0.0073 ppm
Concentration RSD	538.6 %	399.1 %	45.4 %	112.1 %	58.3 %	29.1 %	2.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0005 ppm	-0.0001 ppm	0.1002 ppm	0.0000 ppm	0.0006 ppm	0.0011 ppm	-0.0004 ppm
Concentration per Run 1	-0.0005 ppm	-0.0001 ppm	0.1070 ppm	0.0002 ppm	0.0002 ppm	0.0012 ppm	0.0009 ppm
Concentration per Run 2	-0.0006 ppm	-0.0002 ppm	0.0970 ppm	-0.0001 ppm	0.0006 ppm	0.0016 ppm	-0.0004 ppm
Concentration per Run 3	-0.0005 ppm	-0.0001 ppm	0.0967 ppm	-0.0001 ppm	0.0009 ppm	0.0004 ppm	-0.0018 ppm
Concentration RSD	8.4 %	46.9 %	5.9 %	4,217.8 %	57.2 %	56.7 %	299.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0107 ppm	0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0012 ppm	-0.0001 ppm	-0.0010 ppm
Concentration per Run 1	0.0104 ppm	-0.0004 ppm	0.0002 ppm	0.0002 ppm	0.0005 ppm	-0.0002 ppm	-0.0010 ppm
Concentration per Run 2	0.0104 ppm	0.0003 ppm	0.0001 ppm	0.0002 ppm	0.0013 ppm	0.0000 ppm	-0.0010 ppm
Concentration per Run 3	0.0112 ppm	0.0004 ppm	0.0001 ppm	-0.0001 ppm	0.0018 ppm	0.0000 ppm	-0.0009 ppm
Concentration RSD	4.2 %	369.0 %	48.0 %	147.8 %	52.3 %	126.1 %	4.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	96.6448 %	103.9768 %	104.8926 %	93.4142 %	100.7458 %	101.1686 %	-0.0004 ppm
Concentration per Run 1	93.2402 %	104.1236 %	104.9187 %	84.6659 %	100.3293 %	101.4934 %	-0.0016 ppm
Concentration per Run 2	98.3015 %	103.2647 %	105.2356 %	95.6093 %	100.9360 %	100.0168 %	0.0010 ppm
Concentration per Run 3	98.3928 %	104.5422 %	104.5234 %	99.9672 %	100.9720 %	101.9957 %	-0.0005 ppm
Concentration RSD	3.1 %	0.6 %	0.3 %	8.4 %	0.4 %	1.0 %	368.2 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: L2473668-17 WG2010972
Analysis started at: 12/19/2024 3:26:56 PM
Rack: 1
Vial: 40

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0063 ppm	0.0004 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0199 ppm
Concentration per Run 1	0.0000 ppm	-0.0059 ppm	-0.0005 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0206 ppm
Concentration per Run 2	0.0002 ppm	-0.0037 ppm	0.0016 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0214 ppm
Concentration per Run 3	0.0002 ppm	-0.0094 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0177 ppm
Concentration RSD	84.2 %	45.5 %	306.9 %	60.6 %	94.3 %	225.6 %	9.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0000 ppm	-0.0023 ppm	0.0042 ppm	0.0014 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0001 ppm	-0.0039 ppm	-0.0118 ppm	0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	-0.0003 ppm	0.0045 ppm	0.0014 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0004 ppm	-0.0026 ppm	0.0200 ppm	0.0025 ppm
Concentration RSD	97.9 %	44.7 %	67.6 %	1,464.2 %	80.8 %	378.6 %	85.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0041 ppm	0.0003 ppm	0.0006 ppm	0.0007 ppm	-0.0008 ppm
Concentration per Run 1	-0.0001 ppm	0.0000 ppm	0.0102 ppm	0.0001 ppm	0.0007 ppm	-0.0012 ppm	-0.0023 ppm
Concentration per Run 2	0.0005 ppm	-0.0001 ppm	0.0010 ppm	0.0004 ppm	0.0001 ppm	0.0023 ppm	-0.0007 ppm
Concentration per Run 3	-0.0003 ppm	0.0000 ppm	0.0012 ppm	0.0002 ppm	0.0010 ppm	0.0008 ppm	0.0006 ppm
Concentration RSD	1,102.5 %	604.2 %	128.5 %	63.4 %	75.4 %	262.0 %	179.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0068 ppm	-0.0004 ppm	0.0000 ppm	0.0001 ppm	0.0011 ppm	-0.0001 ppm	-0.0005 ppm
Concentration per Run 1	0.0073 ppm	-0.0004 ppm	0.0001 ppm	0.0001 ppm	0.0008 ppm	-0.0002 ppm	-0.0007 ppm
Concentration per Run 2	0.0067 ppm	-0.0006 ppm	0.0000 ppm	0.0001 ppm	0.0016 ppm	-0.0001 ppm	-0.0004 ppm
Concentration per Run 3	0.0064 ppm	-0.0003 ppm	0.0000 ppm	**0.0000 ppm**	0.0010 ppm	0.0000 ppm	-0.0005 ppm
Concentration RSD	6.7 %	36.9 %	224.5 %	17.4 %	37.9 %	171.2 %	30.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	96.3879 %	105.6933 %	104.6352 %	92.4688 %	100.1892 %	**101.3552 %**	-0.0002 ppm
Concentration per Run 1	92.8052 %	104.0742 %	103.4860 %	83.0332 %	98.1737 %	101.0215 %	-0.0006 ppm
Concentration per Run 2	98.1870 %	104.2681 %	105.2493 %	95.3242 %	101.0028 %	101.6889 %	-0.0001 ppm
Concentration per Run 3	98.1714 %	108.7376 %	105.1702 %	99.0489 %	101.3912 %	**0.0000 %**	-0.0001 ppm
Concentration RSD	3.2 %	2.5 %	1.0 %	9.1 %	1.8 %	**0.5 %**	114.1 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010972-2 WG2010972
Analysis started at: 12/19/2024 3:33:41 PM
Rack: 1
Vial: 22

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0502 ppm	2.3917 ppm	0.1196 ppm	0.9697 ppm	2.2868 ppm	0.0565 ppm	11.4047 ppm
Concentration per Run 1	0.0503 ppm	2.6511 ppm	0.1212 ppm	0.9739 ppm	2.5292 ppm	0.0626 ppm	12.6175 ppm
Concentration per Run 2	0.0500 ppm	2.3148 ppm	0.1191 ppm	0.9715 ppm	2.2163 ppm	0.0549 ppm	11.0709 ppm
Concentration per Run 3	0.0503 ppm	2.2092 ppm	0.1185 ppm	0.9637 ppm	2.1150 ppm	0.0520 ppm	10.5259 ppm
Concentration RSD	0.3 %	9.6 %	1.2 %	0.6 %	9.4 %	9.7 %	9.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0533 ppm	0.5150 ppm	0.1987 ppm	0.2536 ppm	1.0784 ppm	11.7215 ppm	10.1419 ppm
Concentration per Run 1	0.0535 ppm	0.5178 ppm	0.1998 ppm	0.2530 ppm	1.1908 ppm	12.9837 ppm	10.1497 ppm
Concentration per Run 2	0.0532 ppm	0.5143 ppm	0.1987 ppm	0.2537 ppm	1.0449 ppm	11.3192 ppm	10.1571 ppm
Concentration per Run 3	0.0531 ppm	0.5129 ppm	0.1976 ppm	0.2543 ppm	0.9995 ppm	10.8617 ppm	10.1191 ppm
Concentration RSD	0.4 %	0.5 %	0.5 %	0.3 %	9.3 %	9.5 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5384 ppm	0.9701 ppm	12.0448 ppm	0.4947 ppm	0.5609 ppm	0.5060 ppm	0.1251 ppm
Concentration per Run 1	0.5947 ppm	0.9663 ppm	13.3075 ppm	0.4968 ppm	0.5625 ppm	0.5060 ppm	0.1274 ppm
Concentration per Run 2	0.5230 ppm	0.9712 ppm	11.6604 ppm	0.4945 ppm	0.5608 ppm	0.5078 ppm	0.1256 ppm
Concentration per Run 3	0.4977 ppm	0.9726 ppm	11.1664 ppm	0.4927 ppm	0.5594 ppm	0.5043 ppm	0.1224 ppm
Concentration RSD	9.3 %	0.3 %	9.3 %	0.4 %	0.3 %	0.3 %	2.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.9889 ppm	0.9589 ppm	1.1058 ppm	1.0176 ppm	0.1261 ppm	0.4976 ppm	0.5027 ppm
Concentration per Run 1	0.9936 ppm	0.9618 ppm	1.2246 ppm	1.0208 ppm	0.1277 ppm	0.4995 ppm	0.5046 ppm
Concentration per Run 2	0.9873 ppm	0.9575 ppm	1.0708 ppm	1.0165 ppm	0.1245 ppm	0.4969 ppm	0.5023 ppm
Concentration per Run 3	0.9858 ppm	0.9575 ppm	1.0219 ppm	1.0155 ppm	0.1259 ppm	0.4965 ppm	0.5012 ppm
Concentration RSD	0.4 %	0.3 %	9.6 %	0.3 %	1.3 %	0.3 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	93.7449 %	102.4937 %	103.5772 %	97.0570 %	96.6306 %	102.8909 %	-0.0003 ppm
Concentration per Run 1	88.1348 %	102.8881 %	103.7722 %	88.2556 %	96.1938 %	103.1257 %	-0.0017 ppm
Concentration per Run 2	96.3285 %	102.5298 %	103.3506 %	99.2502 %	96.5898 %	102.8946 %	0.0005 ppm
Concentration per Run 3	96.7712 %	102.0632 %	103.6088 %	103.6650 %	97.1082 %	102.6525 %	0.0002 ppm
Concentration RSD	5.2 %	0.4 %	0.2 %	8.2 %	0.5 %	0.2 %	366.3 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: L2473051-01 WG2010972
Analysis started at: 12/19/2024 3:40:05 PM
Rack: 1
Vial: 23

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.1811 ppm	0.0013 ppm	0.0127 ppm	0.0646 ppm	-0.0001 ppm	53.8429 ppm
Concentration per Run 1	0.0000 ppm	0.1897 ppm	0.0014 ppm	0.0128 ppm	0.0702 ppm	0.0000 ppm	59.0442 ppm
Concentration per Run 2	0.0000 ppm	0.1791 ppm	0.0006 ppm	0.0126 ppm	0.0631 ppm	0.0000 ppm	52.4959 ppm
Concentration per Run 3	0.0002 ppm	0.1747 ppm	0.0021 ppm	0.0125 ppm	0.0604 ppm	-0.0001 ppm	49.9884 ppm
Concentration RSD	123.0 %	4.3 %	55.0 %	1.2 %	7.8 %	51.0 %	8.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0010 ppm	0.2546 ppm	1.7586 ppm	26.2885 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0009 ppm	0.2779 ppm	1.9296 ppm	26.4088 ppm
Concentration per Run 2	-0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0011 ppm	0.2487 ppm	1.6900 ppm	26.2800 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0010 ppm	0.2371 ppm	1.6561 ppm	26.1769 ppm
Concentration RSD	118.1 %	166.1 %	106.2 %	12.0 %	8.3 %	8.5 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0112 ppm	0.0027 ppm	1.7386 ppm	0.0004 ppm	0.0004 ppm	0.0016 ppm	-0.0004 ppm
Concentration per Run 1	0.0123 ppm	0.0029 ppm	1.8808 ppm	0.0003 ppm	0.0008 ppm	0.0010 ppm	-0.0017 ppm
Concentration per Run 2	0.0109 ppm	0.0028 ppm	1.7027 ppm	0.0004 ppm	-0.0001 ppm	0.0022 ppm	0.0002 ppm
Concentration per Run 3	0.0104 ppm	0.0025 ppm	1.6323 ppm	0.0004 ppm	0.0006 ppm	0.0016 ppm	0.0004 ppm
Concentration RSD	8.7 %	8.2 %	7.4 %	15.5 %	103.2 %	38.2 %	326.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.8209 ppm	0.0017 ppm	0.5022 ppm	0.0041 ppm	0.0008 ppm	0.0004 ppm	0.0038 ppm
Concentration per Run 1	2.8361 ppm	0.0025 ppm	0.5457 ppm	0.0046 ppm	-0.0012 ppm	0.0002 ppm	0.0037 ppm
Concentration per Run 2	2.8185 ppm	0.0011 ppm	0.4899 ppm	0.0041 ppm	0.0011 ppm	0.0003 ppm	0.0039 ppm
Concentration per Run 3	2.8082 ppm	0.0014 ppm	0.4710 ppm	0.0036 ppm	0.0025 ppm	0.0007 ppm	0.0038 ppm
Concentration RSD	0.5 %	42.9 %	7.7 %	12.5 %	245.2 %	65.8 %	2.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.8440 %	101.7111 %	101.7915 %	92.6855 %	95.1759 %	100.0393 %	0.0085 ppm
Concentration per Run 1	93.3246 %	102.1018 %	101.8128 %	84.9808 %	94.8280 %	100.0658 %	0.0088 ppm
Concentration per Run 2	97.1694 %	101.7750 %	102.0003 %	94.4628 %	95.1982 %	100.1498 %	0.0084 ppm
Concentration per Run 3	97.0380 %	101.2564 %	101.5614 %	98.6128 %	95.5015 %	99.9024 %	0.0081 ppm
Concentration RSD	2.3 %	0.4 %	0.2 %	7.5 %	0.4 %	0.1 %	3.9 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010972-3 WG2010972
Analysis started at: 12/19/2024 3:46:45 PM
Rack: 1
Vial: 24

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0518 ppm	2.6462 ppm	0.1259 ppm	1.0207 ppm	2.4063 ppm	0.0581 ppm	64.6922 ppm
Concentration per Run 1	0.0523 ppm	2.8876 ppm	0.1253 ppm	1.0235 ppm	2.6363 ppm	0.0637 ppm	70.8696 ppm
Concentration per Run 2	0.0515 ppm	2.5581 ppm	0.1250 ppm	1.0200 ppm	2.3394 ppm	0.0563 ppm	62.6888 ppm
Concentration per Run 3	0.0516 ppm	2.4928 ppm	0.1273 ppm	1.0185 ppm	2.2432 ppm	0.0542 ppm	60.5183 ppm
Concentration RSD	0.8 %	8.0 %	1.0 %	0.2 %	8.5 %	8.6 %	8.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0536 ppm	0.5188 ppm	0.1998 ppm	0.2627 ppm	1.3442 ppm	13.8494 ppm	36.9480 ppm
Concentration per Run 1	0.0536 ppm	0.5201 ppm	0.2000 ppm	0.2647 ppm	1.4677 ppm	15.1541 ppm	37.1170 ppm
Concentration per Run 2	0.0537 ppm	0.5192 ppm	0.2004 ppm	0.2604 ppm	1.3024 ppm	13.4507 ppm	36.8895 ppm
Concentration per Run 3	0.0536 ppm	0.5170 ppm	0.1990 ppm	0.2628 ppm	1.2624 ppm	12.9435 ppm	36.8374 ppm
Concentration RSD	0.2 %	0.3 %	0.4 %	0.8 %	8.1 %	8.4 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5586 ppm	0.9717 ppm	14.1001 ppm	0.4969 ppm	0.5618 ppm	0.5204 ppm	0.1296 ppm
Concentration per Run 1	0.6114 ppm	0.9658 ppm	15.4476 ppm	0.4986 ppm	0.5648 ppm	0.5213 ppm	0.1284 ppm
Concentration per Run 2	0.5432 ppm	0.9734 ppm	13.7032 ppm	0.4966 ppm	0.5609 ppm	0.5177 ppm	0.1309 ppm
Concentration per Run 3	0.5212 ppm	0.9760 ppm	13.1494 ppm	0.4954 ppm	0.5597 ppm	0.5222 ppm	0.1296 ppm
Concentration RSD	8.4 %	0.5 %	8.5 %	0.3 %	0.5 %	0.5 %	0.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.9542 ppm	0.9639 ppm	1.6227 ppm	1.0270 ppm	0.1255 ppm	0.5060 ppm	0.5096 ppm
Concentration per Run 1	3.9666 ppm	0.9660 ppm	1.7784 ppm	1.0284 ppm	0.1256 ppm	0.5067 ppm	0.5088 ppm
Concentration per Run 2	3.9530 ppm	0.9619 ppm	1.5763 ppm	1.0292 ppm	0.1263 ppm	0.5066 ppm	0.5124 ppm
Concentration per Run 3	3.9431 ppm	0.9637 ppm	1.5135 ppm	1.0233 ppm	0.1245 ppm	0.5045 ppm	0.5078 ppm
Concentration RSD	0.3 %	0.2 %	8.5 %	0.3 %	0.7 %	0.2 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.2468 %	101.7770 %	101.7188 %	95.9360 %	93.6536 %	101.2769 %	0.0092 ppm
Concentration per Run 1	91.6641 %	101.5659 %	101.4294 %	88.0284 %	93.2277 %	100.7392 %	0.0101 ppm
Concentration per Run 2	97.0631 %	102.5663 %	102.0552 %	98.0809 %	93.7748 %	101.9917 %	0.0085 ppm
Concentration per Run 3	97.0133 %	101.1988 %	101.6718 %	101.6985 %	93.9584 %	101.0997 %	0.0090 ppm
Concentration RSD	3.3 %	0.7 %	0.3 %	7.4 %	0.4 %	0.6 %	8.9 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010972-4 WG2010972
Analysis started at: 12/19/2024 3:53:48 PM
Rack: 1
Vial: 25

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.1910 ppm	0.0013 ppm	0.0133 ppm	0.0671 ppm	0.0000 ppm	55.2747 ppm
Concentration per Run 1	-0.0001 ppm	0.2168 ppm	0.0009 ppm	0.0134 ppm	0.0735 ppm	0.0000 ppm	61.2102 ppm
Concentration per Run 2	0.0000 ppm	0.1834 ppm	0.0031 ppm	0.0134 ppm	0.0655 ppm	0.0000 ppm	53.4625 ppm
Concentration per Run 3	0.0004 ppm	0.1728 ppm	-0.0002 ppm	0.0129 ppm	0.0624 ppm	0.0000 ppm	51.1513 ppm
Concentration RSD	245.8 %	12.0 %	131.7 %	2.2 %	8.5 %	34.8 %	9.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0005 ppm	0.0012 ppm	0.2639 ppm	1.8172 ppm	26.8013 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0003 ppm	0.0014 ppm	0.2880 ppm	1.9908 ppm	26.8845 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0006 ppm	0.0010 ppm	0.2541 ppm	1.7569 ppm	26.8471 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0006 ppm	0.0012 ppm	0.2494 ppm	1.7040 ppm	26.6724 ppm
Concentration RSD	117.5 %	93.7 %	34.2 %	14.6 %	8.0 %	8.4 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0108 ppm	0.0027 ppm	1.7882 ppm	0.0003 ppm	0.0011 ppm	0.0019 ppm	-0.0006 ppm
Concentration per Run 1	0.0119 ppm	0.0028 ppm	1.9543 ppm	0.0003 ppm	0.0007 ppm	0.0015 ppm	0.0002 ppm
Concentration per Run 2	0.0106 ppm	0.0026 ppm	1.7376 ppm	0.0000 ppm	0.0011 ppm	0.0027 ppm	-0.0001 ppm
Concentration per Run 3	0.0098 ppm	0.0027 ppm	1.6727 ppm	0.0006 ppm	0.0013 ppm	0.0014 ppm	-0.0021 ppm
Concentration RSD	9.9 %	4.6 %	8.2 %	92.5 %	28.5 %	38.5 %	194.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.8728 ppm	0.0014 ppm	0.5150 ppm	0.0042 ppm	0.0004 ppm	0.0003 ppm	0.0036 ppm
Concentration per Run 1	2.8862 ppm	0.0016 ppm	0.5635 ppm	0.0046 ppm	0.0003 ppm	0.0001 ppm	0.0036 ppm
Concentration per Run 2	2.8812 ppm	0.0010 ppm	0.5018 ppm	0.0040 ppm	0.0001 ppm	0.0004 ppm	0.0037 ppm
Concentration per Run 3	2.8508 ppm	0.0015 ppm	0.4799 ppm	0.0040 ppm	0.0009 ppm	0.0004 ppm	0.0035 ppm
Concentration RSD	0.7 %	26.0 %	8.4 %	7.5 %	97.6 %	51.1 %	3.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.5404 %	101.5831 %	101.9137 %	92.0117 %	95.6649 %	99.5519 %	0.0089 ppm
Concentration per Run 1	91.6743 %	101.2791 %	101.1824 %	83.6341 %	95.5147 %	98.7234 %	0.0092 ppm
Concentration per Run 2	97.3316 %	102.1048 %	102.2543 %	94.1951 %	95.4146 %	100.1358 %	0.0095 ppm
Concentration per Run 3	97.6153 %	101.3654 %	102.3042 %	98.2058 %	96.0654 %	99.7966 %	0.0081 ppm
Concentration RSD	3.5 %	0.4 %	0.6 %	8.2 %	0.4 %	0.7 %	8.4 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010972-5 WG2010972
Analysis started at: 12/19/2024 4:00:29 PM
Rack: 1
Vial: 26

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0521 ppm	2.5951 ppm	0.1292 ppm	1.0658 ppm	2.4419 ppm	0.0596 ppm	62.6652 ppm
Concentration per Run 1	0.0522 ppm	2.8229 ppm	0.1288 ppm	1.0683 ppm	2.6608 ppm	0.0648 ppm	68.4479 ppm
Concentration per Run 2	0.0518 ppm	2.5371 ppm	0.1308 ppm	1.0664 ppm	2.3778 ppm	0.0584 ppm	61.3981 ppm
Concentration per Run 3	0.0523 ppm	2.4254 ppm	0.1280 ppm	1.0627 ppm	2.2871 ppm	0.0556 ppm	58.1496 ppm
Concentration RSD	0.4 %	7.9 %	1.1 %	0.3 %	8.0 %	7.9 %	8.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0540 ppm	0.5321 ppm	0.2040 ppm	0.2698 ppm	1.3836 ppm	14.4103 ppm	35.7989 ppm
Concentration per Run 1	0.0543 ppm	0.5341 ppm	0.2038 ppm	0.2715 ppm	1.5021 ppm	15.6913 ppm	35.8685 ppm
Concentration per Run 2	0.0539 ppm	0.5318 ppm	0.2042 ppm	0.2690 ppm	1.3534 ppm	14.0221 ppm	35.8703 ppm
Concentration per Run 3	0.0538 ppm	0.5303 ppm	0.2040 ppm	0.2688 ppm	1.2952 ppm	13.5176 ppm	35.6579 ppm
Concentration RSD	0.5 %	0.4 %	0.1 %	0.6 %	7.7 %	7.9 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5826 ppm	1.0202 ppm	14.7346 ppm	0.5241 ppm	0.5746 ppm	0.5314 ppm	0.1333 ppm
Concentration per Run 1	0.6369 ppm	1.0134 ppm	16.0643 ppm	0.5261 ppm	0.5762 ppm	0.5281 ppm	0.1333 ppm
Concentration per Run 2	0.5685 ppm	1.0218 ppm	14.3543 ppm	0.5242 ppm	0.5747 ppm	0.5330 ppm	0.1339 ppm
Concentration per Run 3	0.5422 ppm	1.0254 ppm	13.7851 ppm	0.5219 ppm	0.5729 ppm	0.5330 ppm	0.1327 ppm
Concentration RSD	8.4 %	0.6 %	8.1 %	0.4 %	0.3 %	0.5 %	0.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.9927 ppm	1.0229 ppm	1.6533 ppm	1.0803 ppm	0.1277 ppm	0.5177 ppm	0.5370 ppm
Concentration per Run 1	3.9998 ppm	1.0246 ppm	1.8004 ppm	1.0826 ppm	0.1278 ppm	0.5186 ppm	0.5406 ppm
Concentration per Run 2	4.0004 ppm	1.0214 ppm	1.6100 ppm	1.0804 ppm	0.1275 ppm	0.5171 ppm	0.5346 ppm
Concentration per Run 3	3.9779 ppm	1.0228 ppm	1.5496 ppm	1.0780 ppm	0.1278 ppm	0.5172 ppm	0.5357 ppm
Concentration RSD	0.3 %	0.2 %	7.9 %	0.2 %	0.2 %	0.2 %	0.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	94.5407 %	101.3480 %	101.9581 %	94.6950 %	93.8088 %	101.0150 %	0.0082 ppm
Concentration per Run 1	91.4708 %	101.3673 %	102.4139 %	86.9716 %	93.9120 %	100.7983 %	0.0090 ppm
Concentration per Run 2	95.6238 %	101.2058 %	101.2922 %	96.2329 %	93.3364 %	100.9281 %	0.0074 ppm
Concentration per Run 3	96.5274 %	101.4710 %	102.1682 %	100.8804 %	94.1781 %	101.3187 %	0.0081 ppm
Concentration RSD	2.9 %	0.1 %	0.6 %	7.5 %	0.5 %	0.3 %	9.7 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010972-6D5 WG2010972
Analysis started at: 12/19/2024 4:06:50 PM
Rack: 1
Vial: 27

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0295 ppm	0.0020 ppm	0.0042 ppm	0.0121 ppm	0.0000 ppm	10.3195 ppm
Concentration per Run 1	0.0001 ppm	0.0317 ppm	0.0016 ppm	0.0045 ppm	0.0131 ppm	0.0000 ppm	11.1449 ppm
Concentration per Run 2	0.0000 ppm	0.0266 ppm	0.0024 ppm	0.0041 ppm	0.0119 ppm	0.0000 ppm	10.0809 ppm
Concentration per Run 3	0.0004 ppm	0.0302 ppm	0.0021 ppm	0.0040 ppm	0.0114 ppm	0.0000 ppm	9.7327 ppm
Concentration RSD	136.0 %	8.9 %	20.2 %	5.6 %	7.1 %	142.9 %	7.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0522 ppm	0.3403 ppm	5.0912 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0551 ppm	0.4038 ppm	5.1034 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0503 ppm	0.3337 ppm	5.0890 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0511 ppm	0.2833 ppm	5.0812 ppm
Concentration RSD	69.7 %	1,732.3 %	1,505.7 %	89.6 %	4.9 %	17.8 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0020 ppm	0.0028 ppm	0.3326 ppm	0.0002 ppm	0.0006 ppm	0.0038 ppm	-0.0004 ppm
Concentration per Run 1	0.0018 ppm	0.0031 ppm	0.3595 ppm	0.0002 ppm	0.0001 ppm	0.0037 ppm	0.0002 ppm
Concentration per Run 2	0.0022 ppm	0.0028 ppm	0.3246 ppm	0.0004 ppm	0.0012 ppm	0.0043 ppm	-0.0014 ppm
Concentration per Run 3	0.0019 ppm	0.0026 ppm	0.3136 ppm	0.0002 ppm	0.0005 ppm	0.0035 ppm	0.0000 ppm
Concentration RSD	11.7 %	9.6 %	7.2 %	47.0 %	89.4 %	10.0 %	214.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.5442 ppm	0.0026 ppm	0.0943 ppm	0.0009 ppm	0.0005 ppm	0.0001 ppm	0.0023 ppm
Concentration per Run 1	0.5544 ppm	0.0027 ppm	0.1015 ppm	0.0008 ppm	0.0007 ppm	0.0000 ppm	0.0022 ppm
Concentration per Run 2	0.5386 ppm	0.0032 ppm	0.0917 ppm	0.0010 ppm	-0.0004 ppm	0.0002 ppm	0.0024 ppm
Concentration per Run 3	0.5396 ppm	0.0020 ppm	0.0896 ppm	0.0010 ppm	0.0010 ppm	0.0000 ppm	0.0022 ppm
Concentration RSD	1.6 %	22.6 %	6.7 %	15.7 %	156.8 %	199.4 %	3.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	94.7963 %	103.2427 %	104.6486 %	97.9671 %	99.3374 %	103.0876 %	0.0016 ppm
Concentration per Run 1	92.8034 %	103.5313 %	103.2866 %	91.0214 %	97.6483 %	103.1516 %	0.0020 ppm
Concentration per Run 2	95.7390 %	103.1372 %	105.3716 %	99.8329 %	100.2809 %	103.0667 %	0.0014 ppm
Concentration per Run 3	95.8464 %	103.0595 %	105.2875 %	103.0469 %	100.0830 %	103.0445 %	0.0013 ppm
Concentration RSD	1.8 %	0.2 %	1.1 %	6.4 %	1.5 %	0.1 %	24.3 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: CCV
Analysis started at: 12/19/2024 4:13:30 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4712 ppm	0.5043 ppm	0.4678 ppm	0.4892 ppm	0.4905 ppm	0.4963 ppm	0.5101 ppm
Concentration per Run 1	0.4711 ppm	0.5244 ppm	0.4680 ppm	0.4900 ppm	0.5138 ppm	0.5206 ppm	0.5325 ppm
Concentration per Run 2	0.4717 ppm	0.4954 ppm	0.4693 ppm	0.4908 ppm	0.4834 ppm	0.4874 ppm	0.4992 ppm
Concentration per Run 3	0.4707 ppm	0.4930 ppm	0.4661 ppm	0.4867 ppm	0.4742 ppm	0.4810 ppm	0.4987 ppm
Recovery Percentage 1	94.236 %	100.851 %	93.556 %	97.835 %	98.097 %	99.265 %	102.028 %
Concentration RSD	0.1 %	3.5 %	0.3 %	0.4 %	4.2 %	4.3 %	3.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4781 ppm	0.5068 ppm	0.4739 ppm	0.4704 ppm	0.4830 ppm	5.1497 ppm	0.4909 ppm
Concentration per Run 1	0.4773 ppm	0.5068 ppm	0.4751 ppm	0.4700 ppm	0.5054 ppm	5.3478 ppm	0.4900 ppm
Concentration per Run 2	0.4783 ppm	0.5083 ppm	0.4748 ppm	0.4698 ppm	0.4753 ppm	5.1145 ppm	0.4898 ppm
Concentration per Run 3	0.4785 ppm	0.5054 ppm	0.4719 ppm	0.4713 ppm	0.4685 ppm	4.9867 ppm	0.4929 ppm
Recovery Percentage 1	95.611 %	101.367 %	94.787 %	94.075 %	96.610 %	102.993 %	98.186 %
Concentration RSD	0.1 %	0.3 %	0.4 %	0.2 %	4.1 %	3.6 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4740 ppm	0.4869 ppm	10.3226 ppm	0.4942 ppm	0.5042 ppm	0.5106 ppm	0.4970 ppm
Concentration per Run 1	0.4971 ppm	0.4852 ppm	10.8077 ppm	0.4955 ppm	0.5046 ppm	0.5122 ppm	0.4995 ppm
Concentration per Run 2	0.4659 ppm	0.4887 ppm	10.1889 ppm	0.4937 ppm	0.5048 ppm	0.5116 ppm	0.4973 ppm
Concentration per Run 3	0.4589 ppm	0.4868 ppm	9.9712 ppm	0.4936 ppm	0.5032 ppm	0.5080 ppm	0.4944 ppm
Recovery Percentage 1	94.794 %	97.382 %	103.226 %	98.847 %	100.839 %	102.117 %	99.409 %
Concentration RSD	4.3 %	0.4 %	4.2 %	0.2 %	0.2 %	0.4 %	0.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.6416 ppm	0.4865 ppm	0.5088 ppm	0.4970 ppm	0.4960 ppm	0.4753 ppm	0.5033 ppm
Concentration per Run 1	5.6456 ppm	0.4859 ppm	0.5335 ppm	0.4969 ppm	0.4990 ppm	0.4756 ppm	0.5024 ppm
Concentration per Run 2	5.6651 ppm	0.4874 ppm	0.5014 ppm	0.4972 ppm	0.4950 ppm	0.4749 ppm	0.5028 ppm
Concentration per Run 3	5.6142 ppm	0.4863 ppm	0.4917 ppm	0.4970 ppm	0.4939 ppm	0.4755 ppm	0.5047 ppm
Recovery Percentage 1	107.459 %	97.310 %	101.769 %	99.405 %	99.194 %	95.066 %	100.656 %
Concentration RSD	0.5 %	0.2 %	4.3 %	0.0 %	0.5 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.6676 %	103.3140 %	105.9687 %	106.3007 %	98.7442 %	104.6271 %	0.5047 ppm
Concentration per Run 1	94.2647 %	103.6056 %	105.9823 %	101.7880 %	98.7331 %	104.7944 %	0.5295 ppm
Concentration per Run 2	96.9173 %	103.3053 %	105.6708 %	107.8496 %	98.4547 %	104.6063 %	0.4991 ppm
Concentration per Run 3	95.8208 %	103.0309 %	106.2531 %	109.2645 %	99.0449 %	104.4805 %	0.4855 ppm
Recovery Percentage 1							100.943 %
Concentration RSD	1.4 %	0.3 %	0.3 %	3.7 %	0.3 %	0.2 %	4.5 %

LabBook: WG2011242_12192024T6.imexp

Sample: CCB
Analysis started at: 12/19/2024 4:19:55 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0037 ppm	0.0013 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0561 ppm
Concentration per Run 1	-0.0001 ppm	-0.0052 ppm	0.0010 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0548 ppm
Concentration per Run 2	0.0001 ppm	-0.0036 ppm	0.0021 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0556 ppm
Concentration per Run 3	0.0000 ppm	-0.0023 ppm	0.0008 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0579 ppm
Recovery Percentage 1	-0.185 %	-3.706 %	25.822 %	5.687 %	-0.016 %	-0.230 %	56.114 %
Concentration RSD	883.1 %	40.0 %	53.3 %	2.6 %	2,586.1 %	118.0 %	2.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	-0.0002 ppm	-0.0002 ppm	-0.0089 ppm	-0.0007 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	-0.0005 ppm	-0.0219 ppm	0.0002 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	-0.0006 ppm	0.0015 ppm	-0.0004 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	-0.0003 ppm	0.0006 ppm	-0.0064 ppm	-0.0019 ppm
Recovery Percentage 1	0.771 %	-0.563 %	-0.622 %	-2.212 %	-0.320 %	-0.357 %	-0.719 %
Concentration RSD	101.2 %	55.5 %	221.1 %	48.9 %	417.6 %	133.2 %	152.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0004 ppm	0.0010 ppm	-0.0004 ppm	0.0000 ppm	-0.0002 ppm	0.0009 ppm	-0.0003 ppm
Concentration per Run 1	-0.0009 ppm	0.0012 ppm	-0.0043 ppm	0.0001 ppm	0.0003 ppm	0.0009 ppm	0.0004 ppm
Concentration per Run 2	-0.0004 ppm	0.0010 ppm	0.0004 ppm	-0.0003 ppm	-0.0009 ppm	0.0012 ppm	-0.0010 ppm
Concentration per Run 3	-0.0001 ppm	0.0008 ppm	0.0026 ppm	0.0000 ppm	0.0000 ppm	0.0006 ppm	-0.0004 ppm
Recovery Percentage 1	-4.331 %	1.996 %	-0.022 %	-0.197 %	-2.065 %	1.795 %	-3.228 %
Concentration RSD	92.9 %	21.9 %	815.1 %	429.1 %	281.7 %	36.4 %	209.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0020 ppm	0.0004 ppm	0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0000 ppm	-0.0011 ppm
Concentration per Run 1	0.0017 ppm	0.0005 ppm	0.0002 ppm	0.0000 ppm	0.0018 ppm	0.0001 ppm	-0.0012 ppm
Concentration per Run 2	0.0022 ppm	0.0009 ppm	0.0000 ppm	0.0003 ppm	-0.0005 ppm	0.0000 ppm	-0.0010 ppm
Concentration per Run 3	0.0019 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0005 ppm	-0.0001 ppm	-0.0011 ppm
Recovery Percentage 1	0.391 %	0.897 %	0.887 %	1.212 %	2.974 %	0.034 %	-21.757 %
Concentration RSD	11.8 %	108.6 %	88.7 %	118.6 %	198.0 %	2,691.6 %	8.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.5599 %	104.7852 %	105.9136 %	100.9327 %	100.9095 %	104.6509 %	0.0004 ppm
Concentration per Run 1	92.8576 %	104.2697 %	106.2804 %	93.7098 %	100.6734 %	103.8333 %	0.0008 ppm
Concentration per Run 2	96.8005 %	105.1073 %	105.8955 %	103.1065 %	100.3651 %	105.0738 %	0.0005 ppm
Concentration per Run 3	97.0217 %	104.9787 %	105.5650 %	105.9817 %	101.6899 %	105.0455 %	-0.0003 ppm
Recovery Percentage 1							3.532 %
Concentration RSD	2.5 %	0.4 %	0.3 %	6.4 %	0.7 %	0.7 %	158.2 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: L2473010-01 WG2010972
Analysis started at: 12/19/2024 4:32:28 PM
Rack: 1
Vial: 28

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.2556 ppm	0.0062 ppm	0.2387 ppm	0.1765 ppm	0.0000 ppm	111.4028 ppm
Concentration per Run 1	0.0005 ppm	0.2713 ppm	0.0070 ppm	0.2390 ppm	0.1904 ppm	0.0001 ppm	119.4813 ppm
Concentration per Run 2	0.0001 ppm	0.2520 ppm	0.0046 ppm	0.2387 ppm	0.1729 ppm	0.0000 ppm	109.2288 ppm
Concentration per Run 3	0.0001 ppm	0.2435 ppm	0.0071 ppm	0.2385 ppm	0.1661 ppm	0.0000 ppm	105.4983 ppm
Concentration RSD	100.0 %	5.6 %	23.2 %	0.1 %	7.1 %	125.3 %	6.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0016 ppm	0.0015 ppm	27.3662 ppm	15.2247 ppm	18.8709 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0016 ppm	0.0018 ppm	29.3533 ppm	16.4053 ppm	18.9401 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0017 ppm	0.0013 ppm	26.8768 ppm	14.9113 ppm	18.8406 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0016 ppm	0.0015 ppm	25.8686 ppm	14.3576 ppm	18.8319 ppm
Concentration RSD	62.5 %	28.1 %	3.8 %	14.4 %	6.6 %	7.0 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.6645 ppm	0.0016 ppm	64.8624 ppm	0.0005 ppm	-0.0001 ppm	0.0013 ppm	-0.0017 ppm
Concentration per Run 1	1.7898 ppm	0.0019 ppm	70.0204 ppm	0.0008 ppm	-0.0007 ppm	-0.0002 ppm	-0.0012 ppm
Concentration per Run 2	1.6326 ppm	0.0015 ppm	63.5274 ppm	0.0003 ppm	0.0003 ppm	0.0025 ppm	-0.0024 ppm
Concentration per Run 3	1.5711 ppm	0.0015 ppm	61.0392 ppm	0.0004 ppm	0.0000 ppm	0.0016 ppm	-0.0015 ppm
Concentration RSD	6.8 %	14.4 %	7.1 %	45.3 %	425.5 %	104.9 %	37.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.7750 ppm	0.0004 ppm	0.3808 ppm	0.0082 ppm	0.0010 ppm	0.0008 ppm	0.0030 ppm
Concentration per Run 1	7.7812 ppm	0.0011 ppm	0.4104 ppm	0.0083 ppm	0.0015 ppm	0.0007 ppm	0.0031 ppm
Concentration per Run 2	7.7860 ppm	-0.0003 ppm	0.3733 ppm	0.0084 ppm	0.0011 ppm	0.0009 ppm	0.0029 ppm
Concentration per Run 3	7.7579 ppm	0.0005 ppm	0.3586 ppm	0.0080 ppm	0.0004 ppm	0.0009 ppm	0.0028 ppm
Concentration RSD	0.2 %	169.4 %	7.0 %	2.9 %	58.4 %	13.7 %	5.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	93.7681 %	100.7539 %	101.5794 %	98.8216 %	92.6764 %	100.8680 %	0.0227 ppm
Concentration per Run 1	91.5676 %	100.7072 %	101.6919 %	92.5105 %	92.6622 %	100.6235 %	0.0249 ppm
Concentration per Run 2	95.4584 %	100.9819 %	101.5819 %	100.6048 %	92.5277 %	101.1820 %	0.0225 ppm
Concentration per Run 3	94.2783 %	100.5725 %	101.4643 %	103.3497 %	92.8394 %	100.7986 %	0.0206 ppm
Concentration RSD	2.1 %	0.2 %	0.1 %	5.7 %	0.2 %	0.3 %	9.5 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: L2473010-03 WG2010972
Analysis started at: 12/19/2024 4:39:03 PM
Rack: 1
Vial: 30

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0008 ppm	0.0009 ppm	0.0020 ppm	0.0003 ppm	-0.0001 ppm	0.0955 ppm
Concentration per Run 1	-0.0002 ppm	-0.0045 ppm	0.0010 ppm	0.0018 ppm	0.0005 ppm	-0.0001 ppm	0.1068 ppm
Concentration per Run 2	-0.0002 ppm	0.0016 ppm	0.0006 ppm	0.0020 ppm	0.0002 ppm	-0.0001 ppm	0.0927 ppm
Concentration per Run 3	0.0002 ppm	0.0053 ppm	0.0011 ppm	0.0022 ppm	0.0001 ppm	0.0000 ppm	0.0869 ppm
Concentration RSD	283.5 %	610.1 %	31.5 %	10.0 %	74.4 %	72.2 %	10.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0006 ppm	0.0011 ppm	0.0267 ppm	0.0130 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0006 ppm	0.0013 ppm	0.0618 ppm	0.0148 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0007 ppm	0.0001 ppm	-0.0166 ppm	0.0123 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0020 ppm	0.0349 ppm	0.0120 ppm
Concentration RSD	8.0 %	117.1 %	694.6 %	27.8 %	86.8 %	149.1 %	11.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0004 ppm	0.0001 ppm	0.4588 ppm	0.0005 ppm	0.0003 ppm	0.0003 ppm	-0.0006 ppm
Concentration per Run 1	-0.0004 ppm	0.0001 ppm	0.4988 ppm	0.0005 ppm	0.0003 ppm	-0.0001 ppm	-0.0016 ppm
Concentration per Run 2	-0.0002 ppm	0.0002 ppm	0.4415 ppm	0.0006 ppm	-0.0002 ppm	0.0011 ppm	-0.0003 ppm
Concentration per Run 3	-0.0005 ppm	-0.0001 ppm	0.4361 ppm	0.0004 ppm	0.0009 ppm	0.0000 ppm	0.0002 ppm
Concentration RSD	40.6 %	207.7 %	7.6 %	24.5 %	163.3 %	195.6 %	153.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0271 ppm	0.0003 ppm	0.0002 ppm	-0.0001 ppm	0.0011 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 1	0.0269 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0007 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 2	0.0271 ppm	0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0005 ppm	-0.0001 ppm	-0.0009 ppm
Concentration per Run 3	0.0272 ppm	0.0006 ppm	0.0002 ppm	-0.0001 ppm	0.0020 ppm	0.0002 ppm	-0.0008 ppm
Concentration RSD	0.7 %	111.2 %	72.7 %	58.5 %	72.4 %	397.8 %	6.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.6756 %	105.8113 %	107.6499 %	92.7242 %	101.5930 %	102.7830 %	0.0006 ppm
Concentration per Run 1	92.1480 %	105.7612 %	107.4536 %	84.3804 %	100.7368 %	102.1665 %	0.0005 ppm
Concentration per Run 2	96.9878 %	105.7003 %	107.9494 %	94.8208 %	101.8030 %	102.7125 %	0.0005 ppm
Concentration per Run 3	97.8911 %	105.9725 %	107.5468 %	98.9714 %	102.2393 %	103.4700 %	0.0007 ppm
Concentration RSD	3.2 %	0.1 %	0.2 %	8.1 %	0.8 %	0.6 %	19.6 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: L2473051-02 WG2010972
Analysis started at: 12/19/2024 4:45:48 PM
Rack: 1
Vial: 31

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	1.6559 ppm	0.0030 ppm	0.0197 ppm	0.0550 ppm	0.0000 ppm	71.5706 ppm
Concentration per Run 1	0.0000 ppm	1.8153 ppm	0.0040 ppm	0.0198 ppm	0.0605 ppm	0.0001 ppm	78.5610 ppm
Concentration per Run 2	0.0002 ppm	1.6126 ppm	0.0046 ppm	0.0198 ppm	0.0531 ppm	0.0000 ppm	69.7377 ppm
Concentration per Run 3	0.0003 ppm	1.5399 ppm	0.0004 ppm	0.0195 ppm	0.0515 ppm	0.0000 ppm	66.4130 ppm
Concentration RSD	109.9 %	8.6 %	76.9 %	0.9 %	8.7 %	54.9 %	8.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0011 ppm	0.0022 ppm	0.0056 ppm	2.8794 ppm	7.2669 ppm	20.8259 ppm
Concentration per Run 1	0.0000 ppm	0.0011 ppm	0.0021 ppm	0.0055 ppm	3.1369 ppm	7.9981 ppm	20.8730 ppm
Concentration per Run 2	0.0000 ppm	0.0012 ppm	0.0024 ppm	0.0056 ppm	2.8059 ppm	7.0746 ppm	20.8928 ppm
Concentration per Run 3	0.0000 ppm	0.0012 ppm	0.0022 ppm	0.0056 ppm	2.6955 ppm	6.7279 ppm	20.7119 ppm
Concentration RSD	39.2 %	6.0 %	6.7 %	1.1 %	8.0 %	9.0 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1044 ppm	0.0006 ppm	9.3968 ppm	0.0034 ppm	0.0104 ppm	0.0012 ppm	0.0001 ppm
Concentration per Run 1	0.1139 ppm	0.0006 ppm	10.2897 ppm	0.0034 ppm	0.0109 ppm	0.0011 ppm	0.0006 ppm
Concentration per Run 2	0.1018 ppm	0.0006 ppm	9.1474 ppm	0.0034 ppm	0.0106 ppm	0.0028 ppm	-0.0010 ppm
Concentration per Run 3	0.0975 ppm	0.0005 ppm	8.7534 ppm	0.0034 ppm	0.0098 ppm	-0.0004 ppm	0.0008 ppm
Concentration RSD	8.1 %	13.0 %	8.5 %	0.8 %	5.3 %	138.9 %	740.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.1797 ppm	0.0004 ppm	0.1988 ppm	0.0134 ppm	0.0006 ppm	0.0026 ppm	0.0414 ppm
Concentration per Run 1	5.1773 ppm	0.0003 ppm	0.2177 ppm	0.0141 ppm	0.0004 ppm	0.0026 ppm	0.0414 ppm
Concentration per Run 2	5.1795 ppm	0.0004 ppm	0.1930 ppm	0.0133 ppm	0.0002 ppm	0.0027 ppm	0.0413 ppm
Concentration per Run 3	5.1824 ppm	0.0004 ppm	0.1855 ppm	0.0126 ppm	0.0013 ppm	0.0026 ppm	0.0415 ppm
Concentration RSD	0.0 %	15.0 %	8.5 %	5.6 %	92.4 %	1.9 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	94.8890 %	102.7721 %	103.6311 %	92.7550 %	94.6393 %	100.3979 %	0.0064 ppm
Concentration per Run 1	91.0384 %	102.9018 %	103.5344 %	84.2629 %	94.7472 %	100.1617 %	0.0069 ppm
Concentration per Run 2	96.2474 %	102.7148 %	103.8951 %	94.7014 %	94.6488 %	100.4273 %	0.0061 ppm
Concentration per Run 3	97.3813 %	102.6997 %	103.4639 %	99.3009 %	94.5218 %	100.6046 %	0.0062 ppm
Concentration RSD	3.6 %	0.1 %	0.2 %	8.3 %	0.1 %	0.2 %	7.3 %

LabBook: WG2011242_12192024T6.imexp

Sample: L2473062-01 WG2010972
Analysis started at: 12/19/2024 4:52:26 PM
Rack: 1
Vial: 32

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.3041 ppm	0.0121 ppm	2.2561 ppm	6.4277 ppm	0.0000 ppm	22.7934 ppm
Concentration per Run 1	0.0001 ppm	0.3228 ppm	0.0117 ppm	2.2591 ppm	6.7665 ppm	0.0000 ppm	23.7969 ppm
Concentration per Run 2	0.0003 ppm	0.3034 ppm	0.0117 ppm	2.2654 ppm	6.3496 ppm	0.0000 ppm	22.5405 ppm
Concentration per Run 3	0.0003 ppm	0.2860 ppm	0.0128 ppm	2.2436 ppm	6.1671 ppm	0.0000 ppm	22.0427 ppm
Concentration RSD	67.7 %	6.1 %	5.1 %	0.5 %	4.8 %	561.4 %	4.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0094 ppm	0.0144 ppm	0.0034 ppm	0.0454 ppm	166.7185 ppm	5.5948 ppm	1.5677 ppm
Concentration per Run 1	0.0095 ppm	0.0146 ppm	0.0034 ppm	0.0451 ppm	173.5452 ppm	5.8030 ppm	1.5684 ppm
Concentration per Run 2	0.0094 ppm	0.0145 ppm	0.0034 ppm	0.0457 ppm	164.7979 ppm	5.5411 ppm	1.5691 ppm
Concentration per Run 3	0.0093 ppm	0.0142 ppm	0.0033 ppm	0.0454 ppm	161.8125 ppm	5.4401 ppm	1.5656 ppm
Concentration RSD	1.2 %	1.5 %	2.5 %	0.7 %	3.7 %	3.3 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.3864 ppm	-0.0015 ppm	241.4330 ppm	0.0556 ppm	18.1691 ppm	0.0081 ppm	0.0007 ppm
Concentration per Run 1	2.4841 ppm	-0.0017 ppm	253.9871 ppm	0.0557 ppm	18.2423 ppm	0.0076 ppm	-0.0010 ppm
Concentration per Run 2	2.3630 ppm	-0.0016 ppm	238.4319 ppm	0.0559 ppm	18.1942 ppm	0.0099 ppm	0.0001 ppm
Concentration per Run 3	2.3121 ppm	-0.0013 ppm	231.8801 ppm	0.0552 ppm	18.0708 ppm	0.0068 ppm	0.0029 ppm
Concentration RSD	3.7 %	12.3 %	4.7 %	0.6 %	0.5 %	19.7 %	293.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.4028 ppm	0.0063 ppm	0.3042 ppm	0.0056 ppm	-0.0032 ppm	-0.0008 ppm	6.1194 ppm
Concentration per Run 1	1.4031 ppm	0.0063 ppm	0.3147 ppm	0.0054 ppm	-0.0030 ppm	-0.0006 ppm	6.1769 ppm
Concentration per Run 2	1.4091 ppm	0.0060 ppm	0.3006 ppm	0.0057 ppm	-0.0039 ppm	-0.0008 ppm	6.0893 ppm
Concentration per Run 3	1.3960 ppm	0.0065 ppm	0.2973 ppm	0.0057 ppm	-0.0027 ppm	-0.0009 ppm	6.0918 ppm
Concentration RSD	0.5 %	4.3 %	3.0 %	2.8 %	19.6 %	18.5 %	0.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	96.3564 %	97.8962 %	94.6820 %	108.8214 %	84.1215 %	99.0572 %	0.0366 ppm
Concentration per Run 1	95.5227 %	98.3112 %	95.3250 %	104.5067 %	84.1769 %	99.2041 %	0.0391 ppm
Concentration per Run 2	96.7312 %	97.7910 %	94.0245 %	110.2457 %	83.5868 %	99.0341 %	0.0361 ppm
Concentration per Run 3	96.8154 %	97.5864 %	94.6963 %	111.7118 %	84.6006 %	98.9335 %	0.0348 ppm
Concentration RSD	0.8 %	0.4 %	0.7 %	3.5 %	0.6 %	0.1 %	6.1 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: L2473205-01 WG2010972
Analysis started at: 12/19/2024 4:59:14 PM
Rack: 1
Vial: 33

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0081 ppm	0.0021 ppm	0.0783 ppm	0.0273 ppm	0.0000 ppm	23.7722 ppm
Concentration per Run 1	-0.0002 ppm	0.0084 ppm	0.0013 ppm	0.0788 ppm	0.0300 ppm	0.0000 ppm	25.9670 ppm
Concentration per Run 2	-0.0003 ppm	0.0104 ppm	0.0027 ppm	0.0783 ppm	0.0264 ppm	0.0000 ppm	23.2279 ppm
Concentration per Run 3	0.0000 ppm	0.0056 ppm	0.0025 ppm	0.0778 ppm	0.0255 ppm	-0.0001 ppm	22.1215 ppm
Concentration RSD	90.5 %	30.1 %	34.1 %	0.7 %	8.8 %	166.7 %	8.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0004 ppm	0.0001 ppm	0.0028 ppm	0.0088 ppm	6.9739 ppm	1.7640 ppm
Concentration per Run 1	0.0000 ppm	0.0005 ppm	0.0003 ppm	0.0028 ppm	0.0108 ppm	7.6459 ppm	1.7804 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0029 ppm	0.0092 ppm	6.7827 ppm	1.7555 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	-0.0001 ppm	0.0026 ppm	0.0066 ppm	6.4930 ppm	1.7561 ppm
Concentration RSD	58.1 %	36.5 %	142.8 %	5.9 %	24.1 %	8.6 %	0.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0453 ppm	0.0010 ppm	177.1637 ppm	0.0009 ppm	-0.0008 ppm	-0.0007 ppm	-0.0014 ppm
Concentration per Run 1	0.0497 ppm	0.0011 ppm	194.1974 ppm	0.0008 ppm	-0.0004 ppm	-0.0015 ppm	-0.0020 ppm
Concentration per Run 2	0.0442 ppm	0.0010 ppm	171.8625 ppm	0.0008 ppm	-0.0004 ppm	-0.0006 ppm	-0.0022 ppm
Concentration per Run 3	0.0420 ppm	0.0009 ppm	165.4313 ppm	0.0011 ppm	-0.0015 ppm	-0.0001 ppm	0.0001 ppm
Concentration RSD	8.8 %	10.5 %	8.5 %	20.7 %	80.6 %	103.1 %	90.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.5282 ppm	0.0005 ppm	0.1035 ppm	0.0001 ppm	0.0010 ppm	-0.0002 ppm	0.0112 ppm
Concentration per Run 1	3.5555 ppm	0.0004 ppm	0.1134 ppm	0.0002 ppm	0.0001 ppm	-0.0003 ppm	0.0113 ppm
Concentration per Run 2	3.5163 ppm	0.0004 ppm	0.1003 ppm	-0.0001 ppm	0.0021 ppm	-0.0002 ppm	0.0112 ppm
Concentration per Run 3	3.5128 ppm	0.0006 ppm	0.0967 ppm	0.0003 ppm	0.0007 ppm	-0.0001 ppm	0.0112 ppm
Concentration RSD	0.7 %	29.7 %	8.5 %	184.4 %	100.5 %	38.5 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.9240 %	101.0501 %	100.4677 %	94.1016 %	88.3741 %	98.7883 %	0.0004 ppm
Concentration per Run 1	92.8326 %	101.5177 %	100.6965 %	86.1422 %	87.8678 %	98.7967 %	0.0005 ppm
Concentration per Run 2	97.5091 %	100.4502 %	100.4948 %	95.8701 %	88.4816 %	98.3021 %	-0.0004 ppm
Concentration per Run 3	97.4301 %	101.1824 %	100.2119 %	100.2926 %	88.7730 %	99.2662 %	0.0011 ppm
Concentration RSD	2.8 %	0.5 %	0.2 %	7.7 %	0.5 %	0.5 %	180.8 %

LabBook: WG2011242_12192024T6.imexp

Sample: L2473205-02 WG2010972
Analysis started at: 12/19/2024 5:05:53 PM
Rack: 1
Vial: 34

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0741 ppm	0.0025 ppm	0.0106 ppm	0.0274 ppm	0.0000 ppm	36.1693 ppm
Concentration per Run 1	0.0000 ppm	0.0901 ppm	0.0035 ppm	0.0109 ppm	0.0298 ppm	0.0000 ppm	39.7641 ppm
Concentration per Run 2	0.0006 ppm	0.0671 ppm	0.0027 ppm	0.0109 ppm	0.0269 ppm	0.0000 ppm	35.0694 ppm
Concentration per Run 3	0.0000 ppm	0.0651 ppm	0.0014 ppm	0.0101 ppm	0.0256 ppm	0.0000 ppm	33.6744 ppm
Concentration RSD	165.4 %	18.8 %	42.3 %	4.3 %	7.7 %	1,165.1 %	8.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0012 ppm	3.7337 ppm	4.6247 ppm	6.8247 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0006 ppm	0.0011 ppm	4.0575 ppm	5.0340 ppm	6.9049 ppm
Concentration per Run 2	0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0012 ppm	3.6427 ppm	4.5298 ppm	6.8011 ppm
Concentration per Run 3	0.0001 ppm	0.0004 ppm	0.0000 ppm	0.0012 ppm	3.5009 ppm	4.3103 ppm	6.7680 ppm
Concentration RSD	14.3 %	28.4 %	97.3 %	6.3 %	7.7 %	8.0 %	1.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5535 ppm	0.0000 ppm	125.0941 ppm	0.0005 ppm	-0.0013 ppm	-0.0003 ppm	-0.0006 ppm
Concentration per Run 1	0.6062 ppm	0.0001 ppm	135.9225 ppm	0.0001 ppm	-0.0015 ppm	-0.0011 ppm	-0.0014 ppm
Concentration per Run 2	0.5374 ppm	0.0000 ppm	122.5283 ppm	0.0010 ppm	-0.0013 ppm	-0.0010 ppm	0.0003 ppm
Concentration per Run 3	0.5169 ppm	-0.0001 ppm	116.8314 ppm	0.0005 ppm	-0.0010 ppm	0.0012 ppm	-0.0005 ppm
Concentration RSD	8.4 %	1,330.0 %	7.8 %	89.5 %	19.7 %	436.4 %	149.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.0815 ppm	-0.0003 ppm	0.2027 ppm	0.0007 ppm	0.0008 ppm	0.0000 ppm	0.0117 ppm
Concentration per Run 1	7.0795 ppm	0.0001 ppm	0.2203 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm	0.0118 ppm
Concentration per Run 2	7.0843 ppm	-0.0004 ppm	0.1987 ppm	0.0006 ppm	0.0025 ppm	0.0000 ppm	0.0117 ppm
Concentration per Run 3	7.0805 ppm	-0.0005 ppm	0.1892 ppm	0.0009 ppm	-0.0001 ppm	-0.0001 ppm	0.0115 ppm
Concentration RSD	0.0 %	114.0 %	7.9 %	24.4 %	189.7 %	3,359.2 %	1.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.3826 %	101.4951 %	101.6351 %	94.8176 %	91.4482 %	100.0518 %	0.0010 ppm
Concentration per Run 1	92.0214 %	101.6551 %	102.1604 %	86.5053 %	91.7146 %	99.7260 %	0.0001 ppm
Concentration per Run 2	97.4915 %	101.0986 %	101.3722 %	97.2117 %	91.3658 %	99.5559 %	0.0023 ppm
Concentration per Run 3	96.6350 %	101.7315 %	101.3726 %	100.7357 %	91.2643 %	100.8736 %	0.0007 ppm
Concentration RSD	3.1 %	0.3 %	0.4 %	7.8 %	0.3 %	0.7 %	109.8 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: L2473205-03 WG2010972
Analysis started at: 12/19/2024 5:12:32 PM
Rack: 1
Vial: 35

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0052 ppm	0.0558 ppm	0.0455 ppm	0.0407 ppm	0.0000 ppm	21.4035 ppm
Concentration per Run 1	0.0000 ppm	-0.0045 ppm	0.0567 ppm	0.0461 ppm	0.0437 ppm	0.0000 ppm	23.1547 ppm
Concentration per Run 2	0.0000 ppm	0.0056 ppm	0.0575 ppm	0.0453 ppm	0.0400 ppm	0.0001 ppm	20.9532 ppm
Concentration per Run 3	0.0003 ppm	0.0145 ppm	0.0532 ppm	0.0451 ppm	0.0383 ppm	0.0000 ppm	20.1027 ppm
Concentration RSD	161.3 %	181.6 %	4.2 %	1.2 %	6.8 %	135.4 %	7.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0011 ppm	0.0002 ppm	0.0006 ppm	13.0408 ppm	5.3112 ppm	2.1311 ppm
Concentration per Run 1	0.0001 ppm	0.0012 ppm	0.0003 ppm	0.0007 ppm	14.0223 ppm	5.7185 ppm	2.1467 ppm
Concentration per Run 2	0.0001 ppm	0.0010 ppm	0.0001 ppm	0.0005 ppm	12.7916 ppm	5.2103 ppm	2.1227 ppm
Concentration per Run 3	0.0001 ppm	0.0011 ppm	0.0003 ppm	0.0005 ppm	12.3084 ppm	5.0048 ppm	2.1239 ppm
Concentration RSD	11.5 %	5.4 %	32.2 %	15.1 %	6.8 %	6.9 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.8697 ppm	0.0005 ppm	95.8867 ppm	0.0006 ppm	-0.0021 ppm	0.0010 ppm	0.0003 ppm
Concentration per Run 1	2.0216 ppm	0.0005 ppm	102.9412 ppm	0.0006 ppm	-0.0025 ppm	0.0020 ppm	0.0009 ppm
Concentration per Run 2	1.8273 ppm	0.0005 ppm	94.1605 ppm	0.0007 ppm	-0.0019 ppm	0.0005 ppm	0.0007 ppm
Concentration per Run 3	1.7600 ppm	0.0004 ppm	90.5585 ppm	0.0005 ppm	-0.0018 ppm	0.0005 ppm	-0.0007 ppm
Concentration RSD	7.3 %	9.9 %	6.6 %	20.4 %	18.5 %	86.0 %	285.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	8.7857 ppm	0.0003 ppm	0.0999 ppm	0.0004 ppm	0.0008 ppm	-0.0010 ppm	0.0114 ppm
Concentration per Run 1	8.8260 ppm	0.0005 ppm	0.1073 ppm	0.0002 ppm	0.0005 ppm	-0.0011 ppm	0.0116 ppm
Concentration per Run 2	8.7829 ppm	0.0003 ppm	0.0980 ppm	0.0004 ppm	0.0026 ppm	-0.0011 ppm	0.0114 ppm
Concentration per Run 3	8.7480 ppm	0.0001 ppm	0.0944 ppm	0.0004 ppm	-0.0008 ppm	-0.0007 ppm	0.0113 ppm
Concentration RSD	0.4 %	78.7 %	6.7 %	27.2 %	227.4 %	19.2 %	1.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.3839 %	102.0841 %	102.7124 %	96.4279 %	93.0729 %	101.1423 %	0.0021 ppm
Concentration per Run 1	93.0812 %	102.0127 %	102.9140 %	89.2671 %	92.8071 %	100.8048 %	0.0023 ppm
Concentration per Run 2	96.6185 %	102.1829 %	102.7692 %	98.0926 %	93.0128 %	101.2373 %	0.0022 ppm
Concentration per Run 3	96.4520 %	102.0566 %	102.4539 %	101.9239 %	93.3989 %	101.3848 %	0.0019 ppm
Concentration RSD	2.1 %	0.1 %	0.2 %	6.7 %	0.3 %	0.3 %	11.4 %

LabBook: WG2011242_12192024T6.imexp

Sample: L2473205-04 WG2010972
Analysis started at: 12/19/2024 5:19:11 PM
Rack: 1
Vial: 36

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0269 ppm	0.0568 ppm	0.0363 ppm	0.0754 ppm	0.0000 ppm	18.5883 ppm
Concentration per Run 1	0.0000 ppm	0.0329 ppm	0.0554 ppm	0.0365 ppm	0.0819 ppm	0.0000 ppm	20.1684 ppm
Concentration per Run 2	0.0000 ppm	0.0288 ppm	0.0586 ppm	0.0361 ppm	0.0734 ppm	0.0000 ppm	18.2280 ppm
Concentration per Run 3	0.0004 ppm	0.0190 ppm	0.0566 ppm	0.0363 ppm	0.0710 ppm	0.0000 ppm	17.3684 ppm
Concentration RSD	163.5 %	26.6 %	2.9 %	0.6 %	7.6 %	161.5 %	7.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0006 ppm	19.5984 ppm	6.0482 ppm	2.0392 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0005 ppm	21.2456 ppm	6.5822 ppm	2.0424 ppm
Concentration per Run 2	0.0002 ppm	0.0002 ppm	0.0001 ppm	0.0006 ppm	19.1819 ppm	5.8833 ppm	2.0368 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0007 ppm	18.3675 ppm	5.6791 ppm	2.0384 ppm
Concentration RSD	12.5 %	91.5 %	50.4 %	14.5 %	7.6 %	7.8 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.1513 ppm	0.0000 ppm	130.5665 ppm	-0.0002 ppm	-0.0016 ppm	-0.0005 ppm	0.0007 ppm
Concentration per Run 1	1.2537 ppm	0.0001 ppm	141.8108 ppm	-0.0001 ppm	-0.0015 ppm	-0.0005 ppm	0.0003 ppm
Concentration per Run 2	1.1230 ppm	0.0002 ppm	127.2747 ppm	0.0000 ppm	-0.0013 ppm	-0.0010 ppm	-0.0002 ppm
Concentration per Run 3	1.0773 ppm	-0.0002 ppm	122.6139 ppm	-0.0005 ppm	-0.0019 ppm	0.0000 ppm	0.0019 ppm
Concentration RSD	8.0 %	538.0 %	7.7 %	143.0 %	16.6 %	98.3 %	158.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.6503 ppm	0.0003 ppm	0.0966 ppm	0.0008 ppm	0.0013 ppm	-0.0002 ppm	0.0144 ppm
Concentration per Run 1	7.6550 ppm	0.0005 ppm	0.1050 ppm	0.0007 ppm	0.0020 ppm	-0.0003 ppm	0.0144 ppm
Concentration per Run 2	7.6422 ppm	0.0002 ppm	0.0940 ppm	0.0011 ppm	0.0015 ppm	-0.0001 ppm	0.0144 ppm
Concentration per Run 3	7.6536 ppm	0.0001 ppm	0.0908 ppm	0.0007 ppm	0.0004 ppm	-0.0003 ppm	0.0143 ppm
Concentration RSD	0.1 %	68.3 %	7.7 %	27.6 %	61.6 %	42.5 %	0.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.6015 %	102.1326 %	102.0312 %	97.6190 %	91.4769 %	101.2308 %	0.0020 ppm
Concentration per Run 1	92.2563 %	102.6961 %	101.8772 %	89.7033 %	91.3155 %	101.6060 %	0.0017 ppm
Concentration per Run 2	97.5096 %	102.2127 %	102.3487 %	99.7433 %	91.6844 %	101.3450 %	0.0029 ppm
Concentration per Run 3	97.0386 %	101.4891 %	101.8676 %	103.4103 %	91.4308 %	100.7414 %	0.0014 ppm
Concentration RSD	3.0 %	0.6 %	0.3 %	7.3 %	0.2 %	0.4 %	39.6 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: L2473251-01 WG2010972
Analysis started at: 12/19/2024 5:26:11 PM
Rack: 1
Vial: 37

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.7089 ppm	0.0019 ppm	0.0430 ppm	0.1949 ppm	0.0005 ppm	5.3772 ppm
Concentration per Run 1	0.0003 ppm	0.7636 ppm	0.0019 ppm	0.0431 ppm	0.2081 ppm	0.0005 ppm	5.7434 ppm
Concentration per Run 2	0.0003 ppm	0.6923 ppm	0.0028 ppm	0.0424 ppm	0.1913 ppm	0.0006 ppm	5.2864 ppm
Concentration per Run 3	0.0004 ppm	0.6709 ppm	0.0009 ppm	0.0435 ppm	0.1852 ppm	0.0006 ppm	5.1019 ppm
Concentration RSD	11.5 %	6.9 %	51.5 %	1.3 %	6.1 %	4.7 %	6.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0007 ppm	0.0183 ppm	0.0016 ppm	0.0142 ppm	58.6692 ppm	1.5803 ppm	7.6978 ppm
Concentration per Run 1	0.0007 ppm	0.0181 ppm	0.0013 ppm	0.0141 ppm	62.7031 ppm	1.6836 ppm	7.7295 ppm
Concentration per Run 2	0.0007 ppm	0.0183 ppm	0.0019 ppm	0.0139 ppm	57.5518 ppm	1.5599 ppm	7.6857 ppm
Concentration per Run 3	0.0008 ppm	0.0184 ppm	0.0015 ppm	0.0145 ppm	55.7528 ppm	1.4975 ppm	7.6782 ppm
Concentration RSD	3.2 %	0.9 %	19.6 %	2.2 %	6.1 %	6.0 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.6662 ppm	0.0021 ppm	56.9998 ppm	0.0218 ppm	0.0015 ppm	0.0018 ppm	0.0020 ppm
Concentration per Run 1	1.7829 ppm	0.0021 ppm	60.8570 ppm	0.0215 ppm	0.0017 ppm	0.0038 ppm	0.0013 ppm
Concentration per Run 2	1.6328 ppm	0.0021 ppm	55.8900 ppm	0.0219 ppm	0.0013 ppm	0.0006 ppm	0.0026 ppm
Concentration per Run 3	1.5830 ppm	0.0020 ppm	54.2522 ppm	0.0221 ppm	0.0013 ppm	0.0012 ppm	0.0022 ppm
Concentration RSD	6.2 %	1.9 %	6.0 %	1.4 %	16.6 %	93.3 %	32.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	6.4621 ppm	0.0013 ppm	0.0573 ppm	0.0168 ppm	0.0007 ppm	0.0006 ppm	0.1193 ppm
Concentration per Run 1	6.4128 ppm	0.0013 ppm	0.0611 ppm	0.0171 ppm	0.0000 ppm	0.0006 ppm	0.1185 ppm
Concentration per Run 2	6.4524 ppm	0.0008 ppm	0.0561 ppm	0.0169 ppm	0.0016 ppm	0.0007 ppm	0.1185 ppm
Concentration per Run 3	6.5211 ppm	0.0018 ppm	0.0546 ppm	0.0164 ppm	0.0006 ppm	0.0005 ppm	0.1210 ppm
Concentration RSD	0.8 %	35.8 %	6.0 %	2.1 %	103.8 %	13.3 %	1.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	96.0647 %	104.2924 %	103.2364 %	102.5015 %	93.3412 %	103.8708 %	0.0342 ppm
Concentration per Run 1	93.6233 %	104.5163 %	103.2085 %	96.2802 %	94.0171 %	103.8406 %	0.0373 ppm
Concentration per Run 2	97.2834 %	104.6333 %	102.8283 %	104.0592 %	93.3211 %	104.3470 %	0.0330 ppm
Concentration per Run 3	97.2873 %	103.7275 %	103.6724 %	107.1652 %	92.6855 %	103.4249 %	0.0324 ppm
Concentration RSD	2.2 %	0.5 %	0.4 %	5.5 %	0.7 %	0.4 %	7.7 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: L2473251-02 WG2010972
Analysis started at: 12/19/2024 5:32:51 PM
Rack: 1
Vial: 38

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.1873 ppm	0.0017 ppm	0.0307 ppm	0.0933 ppm	0.0001 ppm	8.2531 ppm
Concentration per Run 1	0.0002 ppm	0.2096 ppm	0.0005 ppm	0.0310 ppm	0.1018 ppm	0.0000 ppm	9.0100 ppm
Concentration per Run 2	0.0001 ppm	0.1769 ppm	0.0008 ppm	0.0305 ppm	0.0910 ppm	0.0001 ppm	8.0363 ppm
Concentration per Run 3	0.0004 ppm	0.1752 ppm	0.0039 ppm	0.0304 ppm	0.0871 ppm	0.0000 ppm	7.7129 ppm
Concentration RSD	52.4 %	10.4 %	109.0 %	1.0 %	8.1 %	38.2 %	8.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	0.0067 ppm	0.0006 ppm	0.0095 ppm	7.3018 ppm	2.9299 ppm	3.5208 ppm
Concentration per Run 1	0.0001 ppm	0.0067 ppm	0.0009 ppm	0.0096 ppm	7.9361 ppm	3.1836 ppm	3.5422 ppm
Concentration per Run 2	0.0002 ppm	0.0068 ppm	0.0002 ppm	0.0094 ppm	7.1110 ppm	2.8961 ppm	3.5154 ppm
Concentration per Run 3	0.0001 ppm	0.0067 ppm	0.0006 ppm	0.0093 ppm	6.8584 ppm	2.7101 ppm	3.5048 ppm
Concentration RSD	18.1 %	0.4 %	61.5 %	1.8 %	7.7 %	8.1 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2907 ppm	0.0008 ppm	28.5564 ppm	0.0094 ppm	0.0004 ppm	-0.0006 ppm	0.0013 ppm
Concentration per Run 1	0.3172 ppm	0.0009 ppm	31.0620 ppm	0.0093 ppm	0.0004 ppm	-0.0007 ppm	0.0019 ppm
Concentration per Run 2	0.2843 ppm	0.0009 ppm	28.0428 ppm	0.0094 ppm	0.0008 ppm	-0.0007 ppm	0.0016 ppm
Concentration per Run 3	0.2708 ppm	0.0007 ppm	26.5645 ppm	0.0094 ppm	0.0001 ppm	-0.0004 ppm	0.0004 ppm
Concentration RSD	8.2 %	13.3 %	8.0 %	0.8 %	87.3 %	32.5 %	63.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.7948 ppm	0.0003 ppm	0.0779 ppm	0.0041 ppm	0.0013 ppm	0.0008 ppm	0.0837 ppm
Concentration per Run 1	2.8087 ppm	0.0002 ppm	0.0849 ppm	0.0039 ppm	0.0020 ppm	0.0009 ppm	0.0840 ppm
Concentration per Run 2	2.7977 ppm	0.0004 ppm	0.0761 ppm	0.0040 ppm	0.0021 ppm	0.0008 ppm	0.0835 ppm
Concentration per Run 3	2.7779 ppm	0.0004 ppm	0.0726 ppm	0.0043 ppm	-0.0001 ppm	0.0009 ppm	0.0836 ppm
Concentration RSD	0.6 %	27.9 %	8.2 %	5.3 %	90.6 %	7.3 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	96.0132 %	105.3750 %	104.2793 %	95.3934 %	96.8328 %	103.5506 %	0.0069 ppm
Concentration per Run 1	92.4367 %	104.8599 %	104.1691 %	87.1757 %	96.4906 %	102.7414 %	0.0074 ppm
Concentration per Run 2	97.9178 %	105.4265 %	104.0584 %	97.4521 %	96.6059 %	103.6860 %	0.0066 ppm
Concentration per Run 3	97.6851 %	105.8387 %	104.6103 %	101.5523 %	97.4017 %	104.2244 %	0.0066 ppm
Concentration RSD	3.2 %	0.5 %	0.3 %	7.8 %	0.5 %	0.7 %	6.3 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: CCV
Analysis started at: 12/19/2024 5:40:06 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4703 ppm	0.4898 ppm	0.4674 ppm	0.4962 ppm	0.4855 ppm	0.4834 ppm	0.4962 ppm
Concentration per Run 1	0.4702 ppm	0.5065 ppm	0.4669 ppm	0.4962 ppm	0.5014 ppm	0.5016 ppm	0.5202 ppm
Concentration per Run 2	0.4709 ppm	0.4848 ppm	0.4672 ppm	0.4953 ppm	0.4794 ppm	0.4763 ppm	0.4924 ppm
Concentration per Run 3	0.4699 ppm	0.4779 ppm	0.4680 ppm	0.4970 ppm	0.4758 ppm	0.4724 ppm	0.4758 ppm
Recovery Percentage 1	94.068 %	97.953 %	93.478 %	99.239 %	97.107 %	96.688 %	99.233 %
Concentration RSD	0.1 %	3.0 %	0.1 %	0.2 %	2.9 %	3.3 %	4.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4760 ppm	0.5127 ppm	0.4648 ppm	0.4714 ppm	0.4684 ppm	5.0802 ppm	0.4861 ppm
Concentration per Run 1	0.4778 ppm	0.5142 ppm	0.4645 ppm	0.4705 ppm	0.4844 ppm	5.2453 ppm	0.4858 ppm
Concentration per Run 2	0.4760 ppm	0.5121 ppm	0.4666 ppm	0.4712 ppm	0.4637 ppm	5.0396 ppm	0.4825 ppm
Concentration per Run 3	0.4743 ppm	0.5117 ppm	0.4632 ppm	0.4723 ppm	0.4570 ppm	4.9558 ppm	0.4898 ppm
Recovery Percentage 1	95.207 %	102.537 %	92.952 %	94.272 %	93.672 %	101.604 %	97.211 %
Concentration RSD	0.4 %	0.3 %	0.4 %	0.2 %	3.1 %	2.9 %	0.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4599 ppm	0.4922 ppm	10.3587 ppm	0.4955 ppm	0.5077 ppm	0.5171 ppm	0.5056 ppm
Concentration per Run 1	0.4763 ppm	0.4920 ppm	10.6951 ppm	0.4980 ppm	0.5093 ppm	0.5178 ppm	0.5031 ppm
Concentration per Run 2	0.4532 ppm	0.4910 ppm	10.2246 ppm	0.4938 ppm	0.5068 ppm	0.5151 ppm	0.5054 ppm
Concentration per Run 3	0.4502 ppm	0.4937 ppm	10.1564 ppm	0.4948 ppm	0.5070 ppm	0.5183 ppm	0.5081 ppm
Recovery Percentage 1	91.982 %	98.447 %	103.587 %	99.104 %	101.540 %	103.411 %	101.111 %
Concentration RSD	3.1 %	0.3 %	2.8 %	0.4 %	0.3 %	0.3 %	0.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.7429 ppm	0.4849 ppm	0.5017 ppm	0.4961 ppm	0.5007 ppm	0.4712 ppm	0.5036 ppm
Concentration per Run 1	5.7550 ppm	0.4860 ppm	0.5184 ppm	0.4960 ppm	0.5019 ppm	0.4713 ppm	0.5052 ppm
Concentration per Run 2	5.7264 ppm	0.4825 ppm	0.4951 ppm	0.4964 ppm	0.5002 ppm	0.4723 ppm	0.5035 ppm
Concentration per Run 3	5.7473 ppm	0.4861 ppm	0.4916 ppm	0.4959 ppm	0.4998 ppm	0.4701 ppm	0.5021 ppm
Recovery Percentage 1	109.388 %	96.973 %	100.340 %	99.216 %	100.131 %	94.247 %	100.714 %
Concentration RSD	0.3 %	0.4 %	2.9 %	0.1 %	0.2 %	0.2 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.5318 %	105.3717 %	106.1259 %	108.1773 %	98.0242 %	106.1613 %	0.5071 ppm
Concentration per Run 1	93.7813 %	105.6264 %	106.2944 %	104.4957 %	98.0200 %	106.4240 %	0.5231 ppm
Concentration per Run 2	95.8231 %	105.2429 %	106.1269 %	109.0503 %	98.1363 %	106.1036 %	0.5012 ppm
Concentration per Run 3	96.9909 %	105.2459 %	105.9565 %	110.9860 %	97.9164 %	105.9563 %	0.4971 ppm
Recovery Percentage 1							101.426 %
Concentration RSD	1.7 %	0.2 %	0.2 %	3.1 %	0.1 %	0.2 %	2.8 %

LabBook: WG2011242_12192024T6.imexp

Sample: CCB
Analysis started at: 12/19/2024 5:46:59 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0017 ppm	0.0012 ppm	0.0014 ppm	0.0000 ppm	0.0000 ppm	0.0521 ppm
Concentration per Run 1	0.0001 ppm	-0.0041 ppm	0.0013 ppm	0.0014 ppm	0.0001 ppm	0.0000 ppm	0.0586 ppm
Concentration per Run 2	0.0000 ppm	-0.0027 ppm	0.0012 ppm	0.0012 ppm	-0.0001 ppm	0.0000 ppm	0.0462 ppm
Concentration per Run 3	-0.0002 ppm	0.0017 ppm	0.0009 ppm	0.0016 ppm	0.0000 ppm	0.0000 ppm	0.0516 ppm
Recovery Percentage 1	-0.026 %	-1.719 %	23.145 %	4.715 %	-0.241 %	0.138 %	52.127 %
Concentration RSD	8,199.9 %	176.0 %	17.1 %	14.0 %	318.0 %	218.3 %	11.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	-0.0016 ppm	0.0105 ppm	-0.0010 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0010 ppm	0.0179 ppm	-0.0005 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	-0.0026 ppm	0.0016 ppm	-0.0001 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0001 ppm	-0.0013 ppm	0.0121 ppm	-0.0023 ppm
Recovery Percentage 1	0.502 %	0.179 %	-1.377 %	0.654 %	-3.285 %	0.421 %	-0.984 %
Concentration RSD	166.7 %	45.5 %	78.9 %	169.1 %	49.0 %	78.7 %	122.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0002 ppm	0.0007 ppm	0.0092 ppm	0.0001 ppm	-0.0002 ppm	0.0019 ppm	-0.0001 ppm
Concentration per Run 1	-0.0002 ppm	0.0009 ppm	0.0036 ppm	0.0002 ppm	0.0000 ppm	0.0024 ppm	0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0008 ppm	0.0110 ppm	-0.0001 ppm	-0.0006 ppm	0.0007 ppm	-0.0023 ppm
Concentration per Run 3	-0.0003 ppm	0.0006 ppm	0.0131 ppm	0.0002 ppm	0.0000 ppm	0.0025 ppm	0.0018 ppm
Recovery Percentage 1	-1.534 %	1.496 %	0.461 %	0.449 %	-1.809 %	3.710 %	-0.764 %
Concentration RSD	116.6 %	17.9 %	54.3 %	129.6 %	182.4 %	52.4 %	2,662.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0021 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm	0.0000 ppm	-0.0011 ppm
Concentration per Run 1	0.0020 ppm	0.0002 ppm	0.0000 ppm	0.0002 ppm	-0.0009 ppm	0.0000 ppm	-0.0011 ppm
Concentration per Run 2	0.0019 ppm	0.0009 ppm	0.0000 ppm	-0.0002 ppm	0.0012 ppm	0.0000 ppm	-0.0010 ppm
Concentration per Run 3	0.0024 ppm	0.0003 ppm	0.0001 ppm	0.0003 ppm	0.0015 ppm	-0.0001 ppm	-0.0011 ppm
Recovery Percentage 1	0.418 %	0.943 %	0.333 %	0.722 %	3.006 %	-0.403 %	-21.687 %
Concentration RSD	13.0 %	80.6 %	147.1 %	347.2 %	215.6 %	152.9 %	2.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.2730 %	105.9539 %	107.7043 %	101.7496 %	100.6095 %	105.2179 %	0.0007 ppm
Concentration per Run 1	93.2402 %	106.0424 %	107.6969 %	95.0497 %	100.4815 %	105.1232 %	0.0004 ppm
Concentration per Run 2	96.1523 %	106.2519 %	107.6734 %	103.4078 %	100.7056 %	105.5192 %	0.0009 ppm
Concentration per Run 3	96.4266 %	105.5673 %	107.7424 %	106.7913 %	100.6412 %	105.0111 %	0.0007 ppm
Recovery Percentage 1							6.879 %
Concentration RSD	1.9 %	0.3 %	0.0 %	5.9 %	0.1 %	0.3 %	36.5 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010950-1 WG2010950
Analysis started at: 12/19/2024 6:06:40 PM
Rack: 1
Vial: 41

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0032 ppm	0.0011 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0112 ppm
Concentration per Run 1	-0.0002 ppm	0.0002 ppm	0.0012 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0170 ppm
Concentration per Run 2	0.0002 ppm	0.0058 ppm	0.0011 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0152 ppm
Concentration per Run 3	0.0002 ppm	0.0036 ppm	0.0009 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0015 ppm
Recovery Percentage 1	1.057 %	3.213 %	21.075 %	1.859 %	0.694 %	-0.683 %	11.250 %
Concentration RSD	298.2 %	88.1 %	10.5 %	32.1 %	61.0 %	18.4 %	75.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0005 ppm	-0.0004 ppm	0.0089 ppm	0.0016 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	-0.0002 ppm	0.0006 ppm	-0.0015 ppm	-0.0037 ppm	0.0031 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0005 ppm	-0.0006 ppm	0.0265 ppm	-0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0010 ppm	0.0039 ppm	0.0021 ppm
Recovery Percentage 1	1.184 %	0.629 %	0.132 %	4.948 %	-0.743 %	0.356 %	1.588 %
Concentration RSD	21.0 %	51.3 %	1,748.6 %	21.4 %	335.7 %	175.8 %	113.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0001 ppm	-0.0001 ppm	0.0035 ppm	0.0002 ppm	0.0005 ppm	-0.0004 ppm	0.0014 ppm
Concentration per Run 1	0.0002 ppm	-0.0002 ppm	0.0024 ppm	0.0003 ppm	0.0004 ppm	0.0000 ppm	0.0019 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0040 ppm	0.0001 ppm	0.0012 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 3	-0.0004 ppm	-0.0001 ppm	0.0039 ppm	0.0001 ppm	-0.0002 ppm	-0.0008 ppm	0.0024 ppm
Recovery Percentage 1	-0.857 %	-0.139 %	0.173 %	0.750 %	4.757 %	-0.821 %	14.043 %
Concentration RSD	378.4 %	194.8 %	25.5 %	72.0 %	156.1 %	87.2 %	92.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0055 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0021 ppm	-0.0001 ppm	-0.0009 ppm
Concentration per Run 1	0.0058 ppm	-0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0021 ppm	-0.0002 ppm	-0.0009 ppm
Concentration per Run 2	0.0049 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0017 ppm	-0.0001 ppm	-0.0008 ppm
Concentration per Run 3	0.0057 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0026 ppm	-0.0001 ppm	-0.0010 ppm
Recovery Percentage 1	1.091 %	0.059 %	0.322 %	0.535 %	10.545 %	-1.480 %	-18.030 %
Concentration RSD	9.1 %	1,127.8 %	195.9 %	306.8 %	20.8 %	44.1 %	7.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	96.2926 %	108.1170 %	110.3341 %	93.6185 %	103.4408 %	103.8791 %	0.0004 ppm
Concentration per Run 1	94.6133 %	108.0421 %	110.3403 %	86.5746 %	103.5631 %	103.1431 %	0.0004 ppm
Concentration per Run 2	97.0569 %	107.9872 %	111.0631 %	95.0375 %	103.6184 %	103.8249 %	0.0008 ppm
Concentration per Run 3	97.2074 %	108.3217 %	109.5990 %	99.2433 %	103.1408 %	104.6694 %	-0.0001 ppm
Recovery Percentage 1							3.556 %
Concentration RSD	1.5 %	0.2 %	0.7 %	6.9 %	0.3 %	0.7 %	117.8 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010950-2 WG2010950
Analysis started at: 12/19/2024 6:13:27 PM
Rack: 1
Vial: 42

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0521 ppm	2.3459 ppm	0.1231 ppm	1.0121 ppm	2.2194 ppm	0.0544 ppm	11.0318 ppm
Concentration per Run 1	0.0524 ppm	2.4884 ppm	0.1259 ppm	1.0198 ppm	2.3536 ppm	0.0578 ppm	11.7552 ppm
Concentration per Run 2	0.0522 ppm	2.3068 ppm	0.1223 ppm	1.0103 ppm	2.1863 ppm	0.0534 ppm	10.8151 ppm
Concentration per Run 3	0.0517 ppm	2.2426 ppm	0.1210 ppm	1.0061 ppm	2.1183 ppm	0.0522 ppm	10.5250 ppm
Concentration RSD	0.7 %	5.4 %	2.1 %	0.7 %	5.5 %	5.5 %	5.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0552 ppm	0.5481 ppm	0.1992 ppm	0.2620 ppm	1.0415 ppm	11.1449 ppm	10.1804 ppm
Concentration per Run 1	0.0554 ppm	0.5516 ppm	0.2002 ppm	0.2619 ppm	1.1005 ppm	11.8007 ppm	10.2053 ppm
Concentration per Run 2	0.0551 ppm	0.5470 ppm	0.1982 ppm	0.2631 ppm	1.0309 ppm	11.0192 ppm	10.1649 ppm
Concentration per Run 3	0.0550 ppm	0.5457 ppm	0.1992 ppm	0.2611 ppm	0.9930 ppm	10.6146 ppm	10.1711 ppm
Concentration RSD	0.4 %	0.6 %	0.5 %	0.4 %	5.2 %	5.4 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5230 ppm	1.0114 ppm	11.7703 ppm	0.5154 ppm	0.5818 ppm	0.5417 ppm	0.1314 ppm
Concentration per Run 1	0.5573 ppm	1.0107 ppm	12.4655 ppm	0.5178 ppm	0.5851 ppm	0.5431 ppm	0.1321 ppm
Concentration per Run 2	0.5141 ppm	1.0099 ppm	11.5837 ppm	0.5141 ppm	0.5799 ppm	0.5401 ppm	0.1313 ppm
Concentration per Run 3	0.4977 ppm	1.0135 ppm	11.2618 ppm	0.5143 ppm	0.5804 ppm	0.5419 ppm	0.1307 ppm
Concentration RSD	5.9 %	0.2 %	5.3 %	0.4 %	0.5 %	0.3 %	0.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0209 ppm	0.9794 ppm	1.0544 ppm	1.0412 ppm	0.1284 ppm	0.5079 ppm	0.5319 ppm
Concentration per Run 1	1.0282 ppm	0.9838 ppm	1.1186 ppm	1.0452 ppm	0.1285 ppm	0.5104 ppm	0.5335 ppm
Concentration per Run 2	1.0187 ppm	0.9786 ppm	1.0385 ppm	1.0395 ppm	0.1290 ppm	0.5059 ppm	0.5322 ppm
Concentration per Run 3	1.0158 ppm	0.9759 ppm	1.0062 ppm	1.0389 ppm	0.1278 ppm	0.5072 ppm	0.5299 ppm
Concentration RSD	0.6 %	0.4 %	5.5 %	0.3 %	0.5 %	0.5 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.5329 %	105.0897 %	105.9440 %	102.8507 %	96.0089 %	104.6567 %	0.0003 ppm
Concentration per Run 1	94.0225 %	104.9401 %	105.2609 %	96.7911 %	95.0210 %	104.3447 %	0.0003 ppm
Concentration per Run 2	96.4184 %	105.2267 %	106.1082 %	104.4677 %	96.2159 %	104.8732 %	0.0013 ppm
Concentration per Run 3	96.1577 %	105.1022 %	106.4629 %	107.2934 %	96.7898 %	104.7523 %	-0.0008 ppm
Concentration RSD	1.4 %	0.1 %	0.6 %	5.3 %	0.9 %	0.3 %	404.1 %

LabBook: WG2011242_12192024T6.imexp

Sample: L2473067-01 WG2010950
Analysis started at: 12/19/2024 6:19:51 PM
Rack: 1
Vial: 48

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0014 ppm	0.0010 ppm	0.0877 ppm	0.1200 ppm	0.0000 ppm	58.7657 ppm
Concentration per Run 1	0.0001 ppm	0.0053 ppm	0.0007 ppm	0.0887 ppm	0.1325 ppm	0.0000 ppm	65.3202 ppm
Concentration per Run 2	0.0003 ppm	-0.0045 ppm	0.0023 ppm	0.0875 ppm	0.1166 ppm	0.0000 ppm	56.9440 ppm
Concentration per Run 3	-0.0001 ppm	0.0033 ppm	0.0001 ppm	0.0869 ppm	0.1110 ppm	0.0000 ppm	54.0330 ppm
Concentration RSD	157.3 %	378.9 %	106.2 %	1.1 %	9.3 %	42.4 %	10.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.1454 ppm	0.0682 ppm	3.8488 ppm	23.9929 ppm
Concentration per Run 1	-0.0001 ppm	-0.0003 ppm	0.0002 ppm	0.1459 ppm	0.0755 ppm	4.2603 ppm	24.1289 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0006 ppm	0.1458 ppm	0.0667 ppm	3.7327 ppm	23.9651 ppm
Concentration per Run 3	-0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.1443 ppm	0.0625 ppm	3.5533 ppm	23.8846 ppm
Concentration RSD	72.0 %	135.1 %	82.6 %	0.6 %	9.7 %	9.5 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0151 ppm	0.0051 ppm	68.6755 ppm	0.0006 ppm	-0.0010 ppm	0.0015 ppm	-0.0011 ppm
Concentration per Run 1	0.0164 ppm	0.0052 ppm	75.6003 ppm	0.0006 ppm	-0.0004 ppm	0.0010 ppm	-0.0020 ppm
Concentration per Run 2	0.0144 ppm	0.0051 ppm	66.8765 ppm	0.0007 ppm	-0.0010 ppm	0.0010 ppm	-0.0022 ppm
Concentration per Run 3	0.0144 ppm	0.0050 ppm	63.5499 ppm	0.0006 ppm	-0.0017 ppm	0.0024 ppm	0.0010 ppm
Concentration RSD	7.6 %	2.1 %	9.1 %	11.5 %	65.3 %	54.8 %	168.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.9534 ppm	0.0008 ppm	1.4222 ppm	0.0004 ppm	0.0006 ppm	-0.0001 ppm	0.0043 ppm
Concentration per Run 1	4.9907 ppm	0.0008 ppm	1.5669 ppm	0.0004 ppm	0.0015 ppm	0.0000 ppm	0.0042 ppm
Concentration per Run 2	4.9449 ppm	0.0010 ppm	1.3822 ppm	0.0003 ppm	0.0002 ppm	-0.0002 ppm	0.0042 ppm
Concentration per Run 3	4.9248 ppm	0.0005 ppm	1.3176 ppm	0.0005 ppm	0.0000 ppm	-0.0001 ppm	0.0044 ppm
Concentration RSD	0.7 %	30.7 %	9.1 %	36.3 %	143.6 %	74.1 %	2.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	93.6616 %	102.6717 %	102.4540 %	91.5275 %	92.1482 %	99.8554 %	0.0174 ppm
Concentration per Run 1	89.6529 %	102.9441 %	102.2193 %	82.2848 %	91.5073 %	99.6539 %	0.0196 ppm
Concentration per Run 2	95.6032 %	102.8235 %	102.6493 %	93.6976 %	92.3222 %	99.9111 %	0.0168 ppm
Concentration per Run 3	95.7288 %	102.2474 %	102.4934 %	98.6001 %	92.6150 %	100.0013 %	0.0157 ppm
Concentration RSD	3.7 %	0.4 %	0.2 %	9.1 %	0.6 %	0.2 %	11.7 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: L2473069-01 WG2010950
Analysis started at: 12/19/2024 6:27:11 PM
Rack: 1
Vial: 49

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0021 ppm	0.0023 ppm	0.0883 ppm	0.1206 ppm	0.0000 ppm	58.6269 ppm
Concentration per Run 1	0.0003 ppm	0.0000 ppm	0.0041 ppm	0.0892 ppm	0.1336 ppm	0.0000 ppm	65.1234 ppm
Concentration per Run 2	-0.0003 ppm	-0.0001 ppm	0.0012 ppm	0.0880 ppm	0.1167 ppm	0.0000 ppm	56.5986 ppm
Concentration per Run 3	0.0001 ppm	0.0064 ppm	0.0015 ppm	0.0877 ppm	0.1115 ppm	0.0000 ppm	54.1586 ppm
Concentration RSD	1,008.4 %	176.4 %	70.0 %	0.9 %	9.6 %	68.7 %	9.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.1490 ppm	0.0665 ppm	3.8930 ppm	24.1131 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.1494 ppm	0.0746 ppm	4.3313 ppm	24.3387 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.1486 ppm	0.0641 ppm	3.7879 ppm	24.0605 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.1489 ppm	0.0608 ppm	3.5597 ppm	23.9402 ppm
Concentration RSD	380.7 %	516.8 %	275.8 %	0.3 %	10.9 %	10.2 %	0.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0150 ppm	0.0037 ppm	69.0086 ppm	0.0002 ppm	-0.0008 ppm	0.0004 ppm	0.0006 ppm
Concentration per Run 1	0.0170 ppm	0.0037 ppm	76.4985 ppm	0.0003 ppm	-0.0004 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 2	0.0142 ppm	0.0039 ppm	66.7125 ppm	0.0000 ppm	-0.0004 ppm	0.0008 ppm	0.0004 ppm
Concentration per Run 3	0.0140 ppm	0.0034 ppm	63.8148 ppm	0.0003 ppm	-0.0015 ppm	-0.0002 ppm	0.0012 ppm
Concentration RSD	11.0 %	6.5 %	9.6 %	89.1 %	86.2 %	138.8 %	96.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.0378 ppm	0.0004 ppm	1.4269 ppm	0.0004 ppm	0.0011 ppm	-0.0002 ppm	0.0066 ppm
Concentration per Run 1	5.0874 ppm	0.0003 ppm	1.5803 ppm	0.0003 ppm	0.0004 ppm	-0.0002 ppm	0.0068 ppm
Concentration per Run 2	5.0197 ppm	0.0004 ppm	1.3796 ppm	0.0005 ppm	0.0027 ppm	-0.0002 ppm	0.0066 ppm
Concentration per Run 3	5.0062 ppm	0.0005 ppm	1.3207 ppm	0.0003 ppm	0.0003 ppm	-0.0001 ppm	0.0065 ppm
Concentration RSD	0.9 %	25.1 %	9.5 %	32.5 %	120.7 %	59.2 %	2.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	92.8839 %	103.0165 %	102.4408 %	92.7087 %	91.5655 %	100.3073 %	0.0177 ppm
Concentration per Run 1	87.5824 %	103.1478 %	102.2944 %	83.7989 %	90.7341 %	100.0642 %	0.0199 ppm
Concentration per Run 2	95.4251 %	103.1422 %	102.5299 %	95.2142 %	91.7767 %	100.4395 %	0.0171 ppm
Concentration per Run 3	95.6441 %	102.7595 %	102.4983 %	99.1130 %	92.1855 %	100.4182 %	0.0161 ppm
Concentration RSD	4.9 %	0.2 %	0.1 %	8.6 %	0.8 %	0.2 %	11.0 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: L2473492-01 WG2010950
Analysis started at: 12/19/2024 6:34:03 PM
Rack: 1
Vial: 50

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0752 ppm	0.0010 ppm	0.0143 ppm	0.1561 ppm	0.0001 ppm	7.6628 ppm
Concentration per Run 1	0.0004 ppm	0.0862 ppm	-0.0001 ppm	0.0142 ppm	0.1717 ppm	0.0001 ppm	8.4266 ppm
Concentration per Run 2	0.0002 ppm	0.0734 ppm	0.0020 ppm	0.0143 ppm	0.1520 ppm	0.0001 ppm	7.4176 ppm
Concentration per Run 3	-0.0002 ppm	0.0659 ppm	0.0011 ppm	0.0143 ppm	0.1447 ppm	0.0000 ppm	7.1443 ppm
Concentration RSD	173.3 %	13.7 %	109.8 %	0.4 %	9.0 %	49.5 %	8.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0007 ppm	0.0622 ppm	2.9847 ppm	1.7652 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0004 ppm	0.0681 ppm	3.3207 ppm	1.7677 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0009 ppm	0.0602 ppm	2.8789 ppm	1.7732 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0007 ppm	0.0584 ppm	2.7545 ppm	1.7549 ppm
Concentration RSD	7.0 %	131.9 %	253.6 %	36.4 %	8.3 %	10.0 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0473 ppm	0.0001 ppm	38.3480 ppm	0.0002 ppm	-0.0010 ppm	-0.0001 ppm	-0.0003 ppm
Concentration per Run 1	0.0521 ppm	0.0001 ppm	42.1783 ppm	0.0004 ppm	-0.0013 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 2	0.0460 ppm	0.0002 ppm	37.3556 ppm	0.0000 ppm	-0.0004 ppm	0.0008 ppm	-0.0003 ppm
Concentration per Run 3	0.0436 ppm	0.0000 ppm	35.5103 ppm	0.0003 ppm	-0.0013 ppm	-0.0009 ppm	-0.0003 ppm
Concentration RSD	9.3 %	101.4 %	9.0 %	77.4 %	54.4 %	1,327.3 %	11.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.8651 ppm	0.0001 ppm	0.0922 ppm	0.0002 ppm	0.0013 ppm	0.0000 ppm	0.0161 ppm
Concentration per Run 1	5.8866 ppm	-0.0004 ppm	0.1011 ppm	0.0004 ppm	0.0020 ppm	0.0001 ppm	0.0163 ppm
Concentration per Run 2	5.8747 ppm	0.0005 ppm	0.0898 ppm	0.0001 ppm	0.0010 ppm	-0.0001 ppm	0.0161 ppm
Concentration per Run 3	5.8340 ppm	0.0002 ppm	0.0859 ppm	0.0003 ppm	0.0010 ppm	-0.0001 ppm	0.0159 ppm
Concentration RSD	0.5 %	383.7 %	8.6 %	66.2 %	43.6 %	275.4 %	1.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.4056 %	106.0587 %	106.7272 %	93.8819 %	96.7616 %	102.5789 %	0.0001 ppm
Concentration per Run 1	91.6979 %	106.4385 %	107.1619 %	85.4121 %	96.4600 %	102.5155 %	0.0000 ppm
Concentration per Run 2	97.0972 %	105.7354 %	106.4550 %	95.9624 %	96.5581 %	102.2289 %	-0.0006 ppm
Concentration per Run 3	97.4218 %	106.0022 %	106.5646 %	100.2713 %	97.2666 %	102.9923 %	0.0010 ppm
Concentration RSD	3.4 %	0.3 %	0.4 %	8.1 %	0.5 %	0.4 %	766.8 %

LabBook: WG2011242_12192024T6.imexp

Sample: L2473872-01 WG2010950
Analysis started at: 12/19/2024 6:40:41 PM
Rack: 1
Vial: 43

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0118 ppm	0.0004 ppm	0.0244 ppm	0.0404 ppm	0.0001 ppm	62.4640 ppm
Concentration per Run 1	0.0003 ppm	0.0131 ppm	0.0000 ppm	0.0247 ppm	0.0443 ppm	0.0001 ppm	68.6943 ppm
Concentration per Run 2	0.0000 ppm	0.0052 ppm	0.0011 ppm	0.0244 ppm	0.0393 ppm	0.0000 ppm	60.3036 ppm
Concentration per Run 3	0.0002 ppm	0.0171 ppm	0.0001 ppm	0.0241 ppm	0.0377 ppm	0.0001 ppm	58.3941 ppm
Concentration RSD	85.7 %	51.4 %	140.9 %	1.2 %	8.6 %	66.7 %	8.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0783 ppm	0.0653 ppm	4.4946 ppm	26.2334 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0782 ppm	0.0721 ppm	4.9493 ppm	26.3632 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0786 ppm	0.0615 ppm	4.3872 ppm	26.2982 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0006 ppm	0.0781 ppm	0.0624 ppm	4.1475 ppm	26.0387 ppm
Concentration RSD	171.1 %	311.4 %	66.7 %	0.3 %	9.0 %	9.2 %	0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1211 ppm	0.0019 ppm	18.5835 ppm	0.0011 ppm	0.0044 ppm	-0.0001 ppm	0.0004 ppm
Concentration per Run 1	0.1342 ppm	0.0019 ppm	20.3294 ppm	0.0013 ppm	0.0044 ppm	0.0001 ppm	-0.0003 ppm
Concentration per Run 2	0.1169 ppm	0.0019 ppm	18.1022 ppm	0.0009 ppm	0.0044 ppm	-0.0003 ppm	0.0002 ppm
Concentration per Run 3	0.1123 ppm	0.0020 ppm	17.3190 ppm	0.0011 ppm	0.0044 ppm	-0.0001 ppm	0.0014 ppm
Concentration RSD	9.6 %	2.3 %	8.4 %	16.8 %	0.6 %	190.7 %	212.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	6.2352 ppm	0.0005 ppm	0.1217 ppm	0.0005 ppm	0.0009 ppm	-0.0002 ppm	0.0644 ppm
Concentration per Run 1	6.2892 ppm	0.0009 ppm	0.1329 ppm	0.0002 ppm	0.0007 ppm	-0.0002 ppm	0.0649 ppm
Concentration per Run 2	6.2203 ppm	0.0002 ppm	0.1188 ppm	0.0006 ppm	0.0011 ppm	-0.0003 ppm	0.0646 ppm
Concentration per Run 3	6.1961 ppm	0.0006 ppm	0.1135 ppm	0.0007 ppm	0.0010 ppm	-0.0001 ppm	0.0638 ppm
Concentration RSD	0.8 %	62.2 %	8.2 %	47.6 %	23.5 %	33.8 %	0.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	94.3254 %	103.6595 %	104.2658 %	93.4845 %	94.3607 %	100.6208 %	0.0043 ppm
Concentration per Run 1	91.3307 %	103.8451 %	104.3480 %	85.2212 %	93.7585 %	100.3359 %	0.0049 ppm
Concentration per Run 2	96.6006 %	103.2780 %	104.6980 %	96.1736 %	94.8148 %	100.3419 %	0.0039 ppm
Concentration per Run 3	95.0450 %	103.8552 %	103.7514 %	99.0587 %	94.5086 %	101.1846 %	0.0042 ppm
Concentration RSD	2.9 %	0.3 %	0.5 %	7.8 %	0.6 %	0.5 %	12.5 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010950-3 WG2010950
Analysis started at: 12/19/2024 6:47:20 PM
Rack: 1
Vial: 44

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0521 ppm	2.4652 ppm	0.1255 ppm	1.0601 ppm	2.3514 ppm	0.0574 ppm	72.2160 ppm
Concentration per Run 1	0.0522 ppm	2.6912 ppm	0.1270 ppm	1.0580 ppm	2.5693 ppm	0.0626 ppm	78.8933 ppm
Concentration per Run 2	0.0520 ppm	2.4033 ppm	0.1251 ppm	1.0654 ppm	2.2905 ppm	0.0559 ppm	70.4118 ppm
Concentration per Run 3	0.0522 ppm	2.3012 ppm	0.1244 ppm	1.0568 ppm	2.1943 ppm	0.0536 ppm	67.3430 ppm
Concentration RSD	0.2 %	8.2 %	1.0 %	0.4 %	8.3 %	8.2 %	8.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0546 ppm	0.5347 ppm	0.1960 ppm	0.3372 ppm	1.1406 ppm	16.2937 ppm	36.0332 ppm
Concentration per Run 1	0.0544 ppm	0.5339 ppm	0.1976 ppm	0.3364 ppm	1.2444 ppm	17.7433 ppm	36.2859 ppm
Concentration per Run 2	0.0549 ppm	0.5382 ppm	0.1960 ppm	0.3368 ppm	1.1122 ppm	15.9063 ppm	35.9375 ppm
Concentration per Run 3	0.0544 ppm	0.5321 ppm	0.1945 ppm	0.3384 ppm	1.0653 ppm	15.2316 ppm	35.8762 ppm
Concentration RSD	0.5 %	0.6 %	0.8 %	0.3 %	8.1 %	8.0 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.6620 ppm	0.9913 ppm	30.6287 ppm	0.5036 ppm	0.5729 ppm	0.5475 ppm	0.1340 ppm
Concentration per Run 1	0.7242 ppm	0.9819 ppm	33.4200 ppm	0.5026 ppm	0.5732 ppm	0.5456 ppm	0.1360 ppm
Concentration per Run 2	0.6449 ppm	0.9970 ppm	29.9017 ppm	0.5058 ppm	0.5754 ppm	0.5522 ppm	0.1328 ppm
Concentration per Run 3	0.6168 ppm	0.9949 ppm	28.5644 ppm	0.5023 ppm	0.5701 ppm	0.5449 ppm	0.1334 ppm
Concentration RSD	8.4 %	0.8 %	8.2 %	0.4 %	0.5 %	0.7 %	1.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.3749 ppm	0.9685 ppm	1.2198 ppm	1.0294 ppm	0.1259 ppm	0.5022 ppm	0.5882 ppm
Concentration per Run 1	7.3765 ppm	0.9668 ppm	1.3334 ppm	1.0349 ppm	0.1275 ppm	0.5044 ppm	0.5869 ppm
Concentration per Run 2	7.4118 ppm	0.9740 ppm	1.1877 ppm	1.0269 ppm	0.1255 ppm	0.5013 ppm	0.5915 ppm
Concentration per Run 3	7.3364 ppm	0.9648 ppm	1.1382 ppm	1.0265 ppm	0.1246 ppm	0.5009 ppm	0.5861 ppm
Concentration RSD	0.5 %	0.5 %	8.3 %	0.5 %	1.2 %	0.4 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	93.6869 %	103.2863 %	103.6403 %	95.5391 %	92.4181 %	102.1154 %	0.0040 ppm
Concentration per Run 1	90.0514 %	103.9420 %	103.6809 %	87.4495 %	92.5188 %	102.5110 %	0.0038 ppm
Concentration per Run 2	95.1442 %	103.3739 %	103.5564 %	97.0918 %	91.8323 %	102.1970 %	0.0044 ppm
Concentration per Run 3	95.8651 %	102.5430 %	103.6837 %	102.0759 %	92.9031 %	101.6383 %	0.0037 ppm
Concentration RSD	3.4 %	0.7 %	0.1 %	7.8 %	0.6 %	0.4 %	8.9 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010950-4 WG2010950
Analysis started at: 12/19/2024 6:53:43 PM
Rack: 1
Vial: 45

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0096 ppm	0.0010 ppm	0.0253 ppm	0.0405 ppm	0.0001 ppm	62.4947 ppm
Concentration per Run 1	0.0003 ppm	0.0138 ppm	-0.0004 ppm	0.0249 ppm	0.0446 ppm	0.0001 ppm	69.1757 ppm
Concentration per Run 2	0.0004 ppm	0.0070 ppm	0.0018 ppm	0.0256 ppm	0.0394 ppm	0.0001 ppm	60.7844 ppm
Concentration per Run 3	0.0001 ppm	0.0081 ppm	0.0016 ppm	0.0254 ppm	0.0376 ppm	0.0001 ppm	57.5240 ppm
Concentration RSD	65.7 %	37.5 %	123.6 %	1.3 %	8.9 %	24.1 %	9.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0773 ppm	0.0652 ppm	4.4976 ppm	26.0639 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0775 ppm	0.0710 ppm	4.9732 ppm	26.1305 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0005 ppm	0.0772 ppm	0.0650 ppm	4.3745 ppm	26.0506 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0774 ppm	0.0597 ppm	4.1453 ppm	26.0107 ppm
Concentration RSD	196.8 %	218.2 %	37.8 %	0.2 %	8.6 %	9.5 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1212 ppm	0.0041 ppm	18.5857 ppm	0.0011 ppm	0.0044 ppm	0.0012 ppm	-0.0013 ppm
Concentration per Run 1	0.1344 ppm	0.0044 ppm	20.4143 ppm	0.0013 ppm	0.0045 ppm	0.0012 ppm	0.0001 ppm
Concentration per Run 2	0.1177 ppm	0.0040 ppm	18.0609 ppm	0.0009 ppm	0.0042 ppm	0.0019 ppm	-0.0015 ppm
Concentration per Run 3	0.1114 ppm	0.0039 ppm	17.2820 ppm	0.0012 ppm	0.0046 ppm	0.0006 ppm	-0.0025 ppm
Concentration RSD	9.8 %	6.9 %	8.8 %	16.5 %	4.6 %	53.6 %	103.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	6.1630 ppm	0.0018 ppm	0.1217 ppm	0.0005 ppm	0.0001 ppm	-0.0001 ppm	0.0633 ppm
Concentration per Run 1	6.0415 ppm	0.0014 ppm	0.1340 ppm	0.0005 ppm	-0.0012 ppm	-0.0002 ppm	0.0624 ppm
Concentration per Run 2	6.2828 ppm	0.0017 ppm	0.1180 ppm	0.0004 ppm	0.0009 ppm	-0.0001 ppm	0.0643 ppm
Concentration per Run 3	6.1646 ppm	0.0024 ppm	0.1130 ppm	0.0005 ppm	0.0006 ppm	-0.0001 ppm	0.0631 ppm
Concentration RSD	2.0 %	28.8 %	9.0 %	8.7 %	1,105.0 %	28.9 %	1.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	93.6749 %	103.7940 %	105.5736 %	92.2906 %	95.2910 %	101.1044 %	0.0040 ppm
Concentration per Run 1	90.1091 %	104.0879 %	107.3764 %	83.7072 %	96.8119 %	100.9402 %	0.0029 ppm
Concentration per Run 2	95.2924 %	103.8506 %	104.6109 %	94.0032 %	93.6119 %	101.2528 %	0.0048 ppm
Concentration per Run 3	95.6231 %	103.4433 %	104.7336 %	99.1613 %	95.4492 %	101.1203 %	0.0043 ppm
Concentration RSD	3.3 %	0.3 %	1.5 %	8.5 %	1.7 %	0.2 %	25.5 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010950-5 WG2010950
Analysis started at: 12/19/2024 7:00:25 PM
Rack: 1
Vial: 46

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0536 ppm	2.5051 ppm	0.1322 ppm	1.1234 ppm	2.4588 ppm	0.0602 ppm	70.7356 ppm
Concentration per Run 1	0.0537 ppm	2.7368 ppm	0.1305 ppm	1.1118 ppm	2.6874 ppm	0.0659 ppm	77.7534 ppm
Concentration per Run 2	0.0538 ppm	2.4389 ppm	0.1347 ppm	1.1341 ppm	2.3905 ppm	0.0586 ppm	69.0218 ppm
Concentration per Run 3	0.0534 ppm	2.3395 ppm	0.1314 ppm	1.1244 ppm	2.2985 ppm	0.0559 ppm	65.4317 ppm
Concentration RSD	0.4 %	8.3 %	1.7 %	1.0 %	8.3 %	8.6 %	9.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0558 ppm	0.5560 ppm	0.2050 ppm	0.3466 ppm	1.2090 ppm	17.1881 ppm	35.8056 ppm
Concentration per Run 1	0.0556 ppm	0.5519 ppm	0.2056 ppm	0.3474 ppm	1.3213 ppm	18.7798 ppm	35.9123 ppm
Concentration per Run 2	0.0563 ppm	0.5606 ppm	0.2043 ppm	0.3481 ppm	1.1817 ppm	16.7693 ppm	35.7880 ppm
Concentration per Run 3	0.0556 ppm	0.5555 ppm	0.2049 ppm	0.3443 ppm	1.1241 ppm	16.0152 ppm	35.7163 ppm
Concentration RSD	0.7 %	0.8 %	0.3 %	0.6 %	8.4 %	8.3 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.6931 ppm	1.0565 ppm	31.1107 ppm	0.5395 ppm	0.5963 ppm	0.5554 ppm	0.1398 ppm
Concentration per Run 1	0.7612 ppm	1.0352 ppm	33.9743 ppm	0.5353 ppm	0.5911 ppm	0.5460 ppm	0.1406 ppm
Concentration per Run 2	0.6763 ppm	1.0677 ppm	30.2847 ppm	0.5442 ppm	0.6013 ppm	0.5591 ppm	0.1407 ppm
Concentration per Run 3	0.6418 ppm	1.0666 ppm	29.0731 ppm	0.5391 ppm	0.5965 ppm	0.5611 ppm	0.1383 ppm
Concentration RSD	8.9 %	1.7 %	8.2 %	0.8 %	0.9 %	1.5 %	1.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.3066 ppm	1.0494 ppm	1.3143 ppm	1.1096 ppm	0.1306 ppm	0.5258 ppm	0.6257 ppm
Concentration per Run 1	7.2374 ppm	1.0397 ppm	1.4354 ppm	1.1139 ppm	0.1300 ppm	0.5279 ppm	0.6225 ppm
Concentration per Run 2	7.3764 ppm	1.0584 ppm	1.2783 ppm	1.1079 ppm	0.1319 ppm	0.5246 ppm	0.6296 ppm
Concentration per Run 3	7.3060 ppm	1.0501 ppm	1.2291 ppm	1.1070 ppm	0.1297 ppm	0.5248 ppm	0.6249 ppm
Concentration RSD	1.0 %	0.9 %	8.2 %	0.3 %	0.9 %	0.4 %	0.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	93.6702 %	103.4427 %	104.7040 %	95.0171 %	93.9709 %	102.6219 %	0.0039 ppm
Concentration per Run 1	90.1389 %	103.4970 %	105.1378 %	86.5188 %	95.1069 %	102.3098 %	0.0036 ppm
Concentration per Run 2	95.1081 %	103.4728 %	104.4809 %	96.9825 %	93.0277 %	102.5511 %	0.0043 ppm
Concentration per Run 3	95.7636 %	103.3583 %	104.4933 %	101.5499 %	93.7782 %	103.0047 %	0.0038 ppm
Concentration RSD	3.3 %	0.1 %	0.4 %	8.1 %	1.1 %	0.3 %	8.7 %

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010950-6D5 WG2010950
Analysis started at: 12/19/2024 7:06:48 PM
Rack: 1
Vial: 47

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0019 ppm	0.0019 ppm	0.0068 ppm	0.0078 ppm	0.0000 ppm	12.0907 ppm
Concentration per Run 1	0.0004 ppm	-0.0005 ppm	0.0029 ppm	0.0070 ppm	0.0084 ppm	0.0000 ppm	13.1187 ppm
Concentration per Run 2	0.0005 ppm	0.0037 ppm	0.0007 ppm	0.0069 ppm	0.0076 ppm	-0.0001 ppm	11.7585 ppm
Concentration per Run 3	0.0002 ppm	0.0026 ppm	0.0021 ppm	0.0066 ppm	0.0074 ppm	0.0000 ppm	11.3948 ppm
Concentration RSD	51.0 %	112.5 %	58.9 %	3.1 %	7.4 %	437.8 %	7.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0155 ppm	0.0127 ppm	0.8478 ppm	5.1755 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	-0.0001 ppm	0.0151 ppm	0.0131 ppm	0.9415 ppm	5.1910 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0157 ppm	0.0135 ppm	0.8186 ppm	5.1551 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0156 ppm	0.0116 ppm	0.7832 ppm	5.1803 ppm
Concentration RSD	57.5 %	63.8 %	45.0 %	2.1 %	8.0 %	9.8 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0234 ppm	0.0031 ppm	3.5374 ppm	0.0003 ppm	0.0008 ppm	0.0037 ppm	0.0001 ppm
Concentration per Run 1	0.0255 ppm	0.0034 ppm	3.7986 ppm	0.0004 ppm	0.0008 ppm	0.0038 ppm	0.0008 ppm
Concentration per Run 2	0.0226 ppm	0.0032 ppm	3.4659 ppm	0.0003 ppm	0.0005 ppm	0.0038 ppm	-0.0013 ppm
Concentration per Run 3	0.0220 ppm	0.0027 ppm	3.3477 ppm	0.0003 ppm	0.0011 ppm	0.0036 ppm	0.0007 ppm
Concentration RSD	8.1 %	11.5 %	6.6 %	8.1 %	38.8 %	2.8 %	1,722.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.2137 ppm	0.0025 ppm	0.0234 ppm	0.0002 ppm	0.0010 ppm	-0.0001 ppm	0.0123 ppm
Concentration per Run 1	1.2154 ppm	0.0027 ppm	0.0251 ppm	0.0001 ppm	0.0006 ppm	0.0001 ppm	0.0122 ppm
Concentration per Run 2	1.2138 ppm	0.0029 ppm	0.0229 ppm	0.0003 ppm	0.0011 ppm	-0.0002 ppm	0.0124 ppm
Concentration per Run 3	1.2119 ppm	0.0021 ppm	0.0221 ppm	0.0004 ppm	0.0013 ppm	-0.0002 ppm	0.0123 ppm
Concentration RSD	0.1 %	16.6 %	6.6 %	67.7 %	34.2 %	138.6 %	0.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	94.2841 %	105.6101 %	107.1849 %	98.8401 %	99.8707 %	105.3837 %	0.0011 ppm
Concentration per Run 1	91.7193 %	105.9586 %	107.7037 %	91.3580 %	99.9824 %	105.5274 %	0.0017 ppm
Concentration per Run 2	96.0292 %	105.5419 %	107.3001 %	101.4088 %	99.9656 %	105.3145 %	0.0012 ppm
Concentration per Run 3	95.1039 %	105.3297 %	106.5509 %	103.7535 %	99.6642 %	105.3091 %	0.0005 ppm
Concentration RSD	2.4 %	0.3 %	0.5 %	6.7 %	0.2 %	0.1 %	54.2 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: CCV
Analysis started at: 12/19/2024 7:13:33 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4784 ppm	0.4957 ppm	0.4604 ppm	0.4897 ppm	0.4845 ppm	0.4834 ppm	0.5008 ppm
Concentration per Run 1	0.4962 ppm	0.5178 ppm	0.4587 ppm	0.4881 ppm	0.5050 ppm	0.5058 ppm	0.5248 ppm
Concentration per Run 2	0.4727 ppm	0.4884 ppm	0.4602 ppm	0.4897 ppm	0.4785 ppm	0.4758 ppm	0.4887 ppm
Concentration per Run 3	0.4662 ppm	0.4809 ppm	0.4621 ppm	0.4912 ppm	0.4701 ppm	0.4687 ppm	0.4888 ppm
Recovery Percentage 1	95.670 %	99.139 %	92.071 %	97.930 %	96.905 %	96.686 %	100.152 %
Concentration RSD	3.3 %	3.9 %	0.4 %	0.3 %	3.8 %	4.1 %	4.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4733 ppm	0.5067 ppm	0.4741 ppm	0.4754 ppm	0.4678 ppm	5.1040 ppm	0.4937 ppm
Concentration per Run 1	0.4735 ppm	0.5065 ppm	0.4906 ppm	0.4947 ppm	0.4865 ppm	5.2927 ppm	0.5074 ppm
Concentration per Run 2	0.4734 ppm	0.5065 ppm	0.4677 ppm	0.4690 ppm	0.4612 ppm	5.0942 ppm	0.4902 ppm
Concentration per Run 3	0.4731 ppm	0.5069 ppm	0.4641 ppm	0.4625 ppm	0.4558 ppm	4.9253 ppm	0.4834 ppm
Recovery Percentage 1	94.668 %	101.332 %	94.823 %	95.083 %	93.569 %	102.081 %	98.737 %
Concentration RSD	0.0 %	0.0 %	3.0 %	3.6 %	3.5 %	3.6 %	2.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4625 ppm	0.4844 ppm	10.3605 ppm	0.4896 ppm	0.5017 ppm	0.5083 ppm	0.4965 ppm
Concentration per Run 1	0.4821 ppm	0.4824 ppm	10.7793 ppm	0.4889 ppm	0.5016 ppm	0.5076 ppm	0.4937 ppm
Concentration per Run 2	0.4575 ppm	0.4840 ppm	10.2649 ppm	0.4903 ppm	0.5018 ppm	0.5088 ppm	0.5011 ppm
Concentration per Run 3	0.4478 ppm	0.4867 ppm	10.0373 ppm	0.4895 ppm	0.5019 ppm	0.5086 ppm	0.4946 ppm
Recovery Percentage 1	92.498 %	96.873 %	103.605 %	97.912 %	100.349 %	101.668 %	99.293 %
Concentration RSD	3.8 %	0.4 %	3.7 %	0.2 %	0.0 %	0.1 %	0.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.6326 ppm	0.4820 ppm	0.5011 ppm	0.5048 ppm	0.4925 ppm	0.4797 ppm	0.5024 ppm
Concentration per Run 1	5.6159 ppm	0.4809 ppm	0.5223 ppm	0.5244 ppm	0.4915 ppm	0.4978 ppm	0.5030 ppm
Concentration per Run 2	5.6348 ppm	0.4832 ppm	0.4950 ppm	0.4968 ppm	0.4934 ppm	0.4728 ppm	0.5024 ppm
Concentration per Run 3	5.6471 ppm	0.4819 ppm	0.4861 ppm	0.4931 ppm	0.4926 ppm	0.4686 ppm	0.5017 ppm
Recovery Percentage 1	107.287 %	96.404 %	100.227 %	100.952 %	98.494 %	95.947 %	100.470 %
Concentration RSD	0.3 %	0.2 %	3.8 %	3.4 %	0.2 %	3.3 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	94.6897 %	103.8043 %	107.6097 %	106.1902 %	99.3023 %	103.2766 %	0.5040 ppm
Concentration per Run 1	93.7780 %	101.0354 %	107.8043 %	102.4167 %	99.7203 %	99.5713 %	0.5257 ppm
Concentration per Run 2	95.5383 %	104.7747 %	107.6446 %	107.2785 %	99.1869 %	104.2620 %	0.5002 ppm
Concentration per Run 3	94.7529 %	105.6029 %	107.3802 %	108.8754 %	98.9996 %	105.9965 %	0.4860 ppm
Recovery Percentage 1							100.791 %
Concentration RSD	0.9 %	2.3 %	0.2 %	3.2 %	0.4 %	3.2 %	4.0 %

LabBook: WG2011242_12192024T6.imexp

Sample: CCB
Analysis started at: 12/19/2024 7:19:58 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0022 ppm	0.0021 ppm	0.0022 ppm	0.0000 ppm	0.0000 ppm	0.0269 ppm
Concentration per Run 1	-0.0002 ppm	0.0073 ppm	0.0010 ppm	0.0024 ppm	0.0000 ppm	-0.0001 ppm	0.0201 ppm
Concentration per Run 2	0.0000 ppm	0.0057 ppm	0.0024 ppm	0.0020 ppm	-0.0001 ppm	0.0000 ppm	0.0338 ppm
Concentration per Run 3	0.0001 ppm	-0.0064 ppm	0.0030 ppm	0.0022 ppm	0.0001 ppm	0.0000 ppm	0.0267 ppm
Recovery Percentage 1	-0.734 %	2.205 %	42.890 %	7.377 %	-0.095 %	-0.672 %	26.854 %
Concentration RSD	283.4 %	339.8 %	46.0 %	7.6 %	646.8 %	91.8 %	25.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0007 ppm	0.0066 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0000 ppm	-0.0004 ppm	0.0265 ppm	0.0001 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0118 ppm	-0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0001 ppm	-0.0018 ppm	0.0052 ppm	0.0014 ppm
Recovery Percentage 1	0.910 %	-0.059 %	0.960 %	0.434 %	-1.411 %	0.265 %	0.392 %
Concentration RSD	72.6 %	451.2 %	301.6 %	162.7 %	134.4 %	289.4 %	223.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0004 ppm	0.0011 ppm	0.0041 ppm	0.0000 ppm	0.0000 ppm	0.0015 ppm	0.0014 ppm
Concentration per Run 1	-0.0005 ppm	0.0011 ppm	0.0155 ppm	-0.0003 ppm	0.0004 ppm	0.0019 ppm	0.0024 ppm
Concentration per Run 2	-0.0003 ppm	0.0012 ppm	0.0002 ppm	0.0000 ppm	-0.0002 ppm	0.0017 ppm	0.0006 ppm
Concentration per Run 3	-0.0004 ppm	0.0009 ppm	-0.0035 ppm	0.0002 ppm	-0.0003 ppm	0.0009 ppm	0.0012 ppm
Recovery Percentage 1	-4.148 %	2.116 %	0.204 %	-0.129 %	-0.252 %	3.037 %	13.676 %
Concentration RSD	23.8 %	15.9 %	247.0 %	849.7 %	1,410.1 %	33.8 %	67.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0030 ppm	0.0009 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 1	0.0031 ppm	0.0010 ppm	0.0001 ppm	0.0002 ppm	0.0009 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 2	0.0031 ppm	0.0007 ppm	0.0001 ppm	0.0001 ppm	-0.0007 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 3	0.0028 ppm	0.0011 ppm	0.0000 ppm	-0.0001 ppm	-0.0005 ppm	-0.0004 ppm	0.0001 ppm
Recovery Percentage 1	0.607 %	1.809 %	0.323 %	0.821 %	-0.468 %	-1.133 %	3.122 %
Concentration RSD	6.0 %	25.8 %	169.3 %	222.4 %	943.5 %	210.8 %	37.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.0816 %	106.1133 %	106.9981 %	103.9893 %	99.3760 %	105.9374 %	0.0004 ppm
Concentration per Run 1	94.2243 %	105.9262 %	108.9002 %	99.9491 %	101.2599 %	105.6356 %	0.0007 ppm
Concentration per Run 2	95.5169 %	105.8818 %	107.7069 %	105.1070 %	100.1209 %	105.7643 %	0.0008 ppm
Concentration per Run 3	95.5037 %	106.5320 %	104.3872 %	106.9119 %	96.7472 %	106.4123 %	-0.0004 ppm
Recovery Percentage 1							3.797 %
Concentration RSD	0.8 %	0.3 %	2.2 %	3.5 %	2.4 %	0.4 %	169.5 %

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010915-1 WG2010915
Analysis started at: 12/19/2024 8:03:49 PM
Rack: 1
Vial: 51

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	-0.0032 ppm	0.0008 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0487 ppm
Concentration per Run 1	0.0003 ppm	-0.0036 ppm	0.0003 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0556 ppm
Concentration per Run 2	0.0004 ppm	-0.0010 ppm	0.0001 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0454 ppm
Concentration per Run 3	0.0002 ppm	-0.0052 ppm	0.0019 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0451 ppm
Recovery Percentage 1	4.432 %	-3.238 %	15.626 %	1.389 %	0.777 %	-0.482 %	48.694 %
Concentration RSD	40.5 %	65.8 %	126.5 %	15.6 %	93.5 %	43.3 %	12.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0003 ppm	0.0236 ppm	0.0008 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0005 ppm	0.0012 ppm	0.0193 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0006 ppm	0.0002 ppm	0.0413 ppm	0.0026 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm	-0.0007 ppm	0.0103 ppm	0.0001 ppm
Recovery Percentage 1	0.617 %	-0.211 %	-0.023 %	5.453 %	0.520 %	0.945 %	0.843 %
Concentration RSD	65.1 %	149.9 %	15,975.7 %	8.8 %	365.1 %	67.5 %	181.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0044 ppm	0.0003 ppm	0.0005 ppm	-0.0007 ppm	0.0000 ppm
Concentration per Run 1	-0.0004 ppm	0.0000 ppm	0.0027 ppm	0.0002 ppm	0.0004 ppm	-0.0010 ppm	0.0007 ppm
Concentration per Run 2	0.0003 ppm	-0.0001 ppm	0.0061 ppm	0.0002 ppm	0.0001 ppm	-0.0004 ppm	-0.0008 ppm
Concentration per Run 3	-0.0003 ppm	0.0000 ppm	0.0042 ppm	0.0005 ppm	0.0010 ppm	-0.0006 ppm	0.0001 ppm
Recovery Percentage 1	-1.211 %	-0.077 %	0.218 %	1.137 %	4.875 %	-1.310 %	-0.157 %
Concentration RSD	299.7 %	114.7 %	39.0 %	52.9 %	96.3 %	50.1 %	4,691.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0054 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0013 ppm	-0.0001 ppm	-0.0007 ppm
Concentration per Run 1	0.0058 ppm	-0.0003 ppm	0.0001 ppm	0.0001 ppm	0.0008 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 2	0.0052 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0019 ppm	-0.0002 ppm	-0.0007 ppm
Concentration per Run 3	0.0052 ppm	0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0013 ppm	0.0000 ppm	-0.0007 ppm
Recovery Percentage 1	1.085 %	-0.056 %	1.535 %	0.473 %	6.743 %	-0.868 %	-13.971 %
Concentration RSD	6.3 %	812.4 %	33.6 %	205.4 %	40.7 %	148.7 %	5.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	94.8882 %	108.3947 %	110.8366 %	93.2526 %	102.3108 %	103.0611 %	0.0006 ppm
Concentration per Run 1	91.3953 %	108.8832 %	110.7095 %	84.0192 %	101.1888 %	102.9067 %	0.0009 ppm
Concentration per Run 2	97.0896 %	107.8760 %	111.4227 %	96.3292 %	102.9432 %	102.6397 %	0.0009 ppm
Concentration per Run 3	96.1798 %	108.4247 %	110.3774 %	99.4094 %	102.8004 %	103.6370 %	0.0002 ppm
Recovery Percentage 1							6.444 %
Concentration RSD	3.2 %	0.5 %	0.5 %	8.7 %	1.0 %	0.5 %	61.9 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010915-2 WG2010915
Analysis started at: 12/19/2024 8:10:33 PM
Rack: 1
Vial: 52

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0523 ppm	2.2625 ppm	0.1218 ppm	1.0058 ppm	2.2314 ppm	0.0546 ppm	11.1255 ppm
Concentration per Run 1	0.0528 ppm	2.3378 ppm	0.1215 ppm	0.9962 ppm	2.3887 ppm	0.0584 ppm	11.9580 ppm
Concentration per Run 2	0.0524 ppm	2.2310 ppm	0.1220 ppm	1.0211 ppm	2.1883 ppm	0.0535 ppm	10.8941 ppm
Concentration per Run 3	0.0518 ppm	2.2188 ppm	0.1219 ppm	1.0001 ppm	2.1173 ppm	0.0518 ppm	10.5245 ppm
Concentration RSD	0.9 %	2.9 %	0.2 %	1.3 %	6.3 %	6.3 %	6.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0558 ppm	0.5509 ppm	0.1988 ppm	0.2765 ppm	1.0491 ppm	11.1847 ppm	10.0710 ppm
Concentration per Run 1	0.0556 ppm	0.5470 ppm	0.1987 ppm	0.2772 ppm	1.1189 ppm	11.9769 ppm	10.1043 ppm
Concentration per Run 2	0.0565 ppm	0.5586 ppm	0.1999 ppm	0.2764 ppm	1.0284 ppm	10.9905 ppm	10.0795 ppm
Concentration per Run 3	0.0553 ppm	0.5471 ppm	0.1978 ppm	0.2759 ppm	0.9999 ppm	10.5867 ppm	10.0291 ppm
Concentration RSD	1.1 %	1.2 %	0.5 %	0.3 %	5.9 %	6.4 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5296 ppm	1.0078 ppm	11.2708 ppm	0.5163 ppm	0.5805 ppm	0.5384 ppm	0.1308 ppm
Concentration per Run 1	0.5696 ppm	0.9936 ppm	11.6761 ppm	0.5133 ppm	0.5774 ppm	0.5328 ppm	0.1300 ppm
Concentration per Run 2	0.5179 ppm	1.0232 ppm	11.0653 ppm	0.5243 ppm	0.5883 ppm	0.5455 ppm	0.1331 ppm
Concentration per Run 3	0.5013 ppm	1.0066 ppm	11.0711 ppm	0.5113 ppm	0.5759 ppm	0.5368 ppm	0.1294 ppm
Concentration RSD	6.7 %	1.5 %	3.1 %	1.4 %	1.2 %	1.2 %	1.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0033 ppm	0.9770 ppm	1.0564 ppm	1.0331 ppm	0.1275 ppm	0.5080 ppm	0.5541 ppm
Concentration per Run 1	0.9954 ppm	0.9699 ppm	1.1319 ppm	1.0355 ppm	0.1265 ppm	0.5096 ppm	0.5525 ppm
Concentration per Run 2	1.0178 ppm	0.9922 ppm	1.0355 ppm	1.0329 ppm	0.1286 ppm	0.5085 ppm	0.5612 ppm
Concentration per Run 3	0.9967 ppm	0.9687 ppm	1.0019 ppm	1.0307 ppm	0.1275 ppm	0.5058 ppm	0.5485 ppm
Concentration RSD	1.3 %	1.4 %	6.4 %	0.2 %	0.8 %	0.4 %	1.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	94.0067 %	105.8938 %	106.7997 %	100.5326 %	96.4958 %	105.3537 %	-0.0002 ppm
Concentration per Run 1	91.0274 %	106.0887 %	108.0833 %	94.0233 %	97.3097 %	105.3179 %	-0.0002 ppm
Concentration per Run 2	95.5704 %	105.5675 %	104.6805 %	102.2139 %	94.9683 %	105.1490 %	0.0003 ppm
Concentration per Run 3	95.4221 %	106.0252 %	107.6353 %	105.3607 %	97.2094 %	105.5941 %	-0.0009 ppm
Concentration RSD	2.7 %	0.3 %	1.7 %	5.8 %	1.4 %	0.2 %	254.0 %

LabBook: WG2011242_12192024T6.imexp

Sample: L2473538-02 WG2010915
Analysis started at: 12/19/2024 8:16:55 PM
Rack: 2
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.3285 ppm	0.0017 ppm	0.0201 ppm	0.0549 ppm	0.0001 ppm	17.8927 ppm
Concentration per Run 1	0.0005 ppm	0.3406 ppm	0.0001 ppm	0.0202 ppm	0.0600 ppm	0.0001 ppm	19.6960 ppm
Concentration per Run 2	0.0001 ppm	0.3266 ppm	0.0028 ppm	0.0204 ppm	0.0534 ppm	0.0001 ppm	17.4670 ppm
Concentration per Run 3	0.0001 ppm	0.3183 ppm	0.0023 ppm	0.0197 ppm	0.0512 ppm	0.0001 ppm	16.5151 ppm
Concentration RSD	96.0 %	3.4 %	82.3 %	1.9 %	8.4 %	38.1 %	9.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0003 ppm	0.0021 ppm	0.0014 ppm	0.8680 ppm	1.4876 ppm	7.1440 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0022 ppm	0.0014 ppm	0.9429 ppm	1.6006 ppm	7.1620 ppm
Concentration per Run 2	0.0001 ppm	0.0004 ppm	0.0021 ppm	0.0014 ppm	0.8469 ppm	1.4785 ppm	7.1600 ppm
Concentration per Run 3	0.0001 ppm	0.0003 ppm	0.0019 ppm	0.0013 ppm	0.8143 ppm	1.3836 ppm	7.1101 ppm
Concentration RSD	33.2 %	25.1 %	7.2 %	7.7 %	7.7 %	7.3 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0198 ppm	0.0020 ppm	19.9357 ppm	0.0011 ppm	-0.0019 ppm	0.0011 ppm	-0.0007 ppm
Concentration per Run 1	0.0220 ppm	0.0022 ppm	20.5564 ppm	0.0013 ppm	-0.0020 ppm	0.0014 ppm	-0.0018 ppm
Concentration per Run 2	0.0191 ppm	0.0019 ppm	19.6544 ppm	0.0009 ppm	-0.0013 ppm	0.0012 ppm	0.0003 ppm
Concentration per Run 3	0.0183 ppm	0.0018 ppm	19.5963 ppm	0.0012 ppm	-0.0024 ppm	0.0006 ppm	-0.0005 ppm
Concentration RSD	9.9 %	10.0 %	2.7 %	15.7 %	27.1 %	39.7 %	154.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.3680 ppm	0.0013 ppm	0.1023 ppm	0.0099 ppm	0.0008 ppm	0.0016 ppm	0.0028 ppm
Concentration per Run 1	10.3770 ppm	0.0017 ppm	0.1116 ppm	0.0100 ppm	0.0015 ppm	0.0016 ppm	0.0028 ppm
Concentration per Run 2	10.3741 ppm	0.0013 ppm	0.0998 ppm	0.0099 ppm	-0.0007 ppm	0.0016 ppm	0.0028 ppm
Concentration per Run 3	10.3530 ppm	0.0009 ppm	0.0955 ppm	0.0099 ppm	0.0014 ppm	0.0016 ppm	0.0028 ppm
Concentration RSD	0.1 %	31.0 %	8.1 %	0.6 %	165.5 %	1.6 %	0.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.4354 %	106.3978 %	107.8554 %	94.4675 %	97.6263 %	103.3134 %	0.0030 ppm
Concentration per Run 1	92.2078 %	106.2860 %	108.6952 %	85.9984 %	97.9726 %	102.7573 %	0.0039 ppm
Concentration per Run 2	96.4172 %	106.0973 %	107.3395 %	96.0578 %	97.3959 %	103.1103 %	0.0029 ppm
Concentration per Run 3	97.6811 %	106.8100 %	107.5315 %	101.3465 %	97.5106 %	104.0725 %	0.0021 ppm
Concentration RSD	3.0 %	0.3 %	0.7 %	8.3 %	0.3 %	0.7 %	30.0 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: L2473538-03 WG2010915
Analysis started at: 12/19/2024 8:23:35 PM
Rack: 2
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0003 ppm	0.0017 ppm	0.0262 ppm	0.0194 ppm	0.0000 ppm	16.6288 ppm
Concentration per Run 1	0.0006 ppm	0.0018 ppm	0.0014 ppm	0.0266 ppm	0.0199 ppm	0.0000 ppm	16.9558 ppm
Concentration per Run 2	0.0000 ppm	-0.0021 ppm	0.0010 ppm	0.0260 ppm	0.0199 ppm	0.0000 ppm	17.1426 ppm
Concentration per Run 3	-0.0001 ppm	0.0011 ppm	0.0025 ppm	0.0261 ppm	0.0185 ppm	0.0000 ppm	15.7881 ppm
Concentration RSD	231.1 %	723.2 %	46.6 %	1.3 %	4.1 %	3,694.6 %	4.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0003 ppm	0.0021 ppm	0.0007 ppm	0.1828 ppm	1.6761 ppm	6.3557 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	0.0024 ppm	0.0007 ppm	0.1843 ppm	1.7044 ppm	6.4418 ppm
Concentration per Run 2	0.0001 ppm	-0.0004 ppm	0.0020 ppm	0.0006 ppm	0.1880 ppm	1.7128 ppm	6.3355 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	0.0020 ppm	0.0007 ppm	0.1761 ppm	1.6111 ppm	6.2899 ppm
Concentration RSD	19.7 %	31.6 %	11.3 %	8.2 %	3.3 %	3.4 %	1.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1114 ppm	0.0005 ppm	22.5562 ppm	0.0013 ppm	-0.0021 ppm	0.0003 ppm	-0.0003 ppm
Concentration per Run 1	0.1135 ppm	0.0007 ppm	21.8027 ppm	0.0011 ppm	-0.0023 ppm	0.0009 ppm	0.0016 ppm
Concentration per Run 2	0.1145 ppm	0.0005 ppm	23.6206 ppm	0.0015 ppm	-0.0022 ppm	0.0003 ppm	-0.0010 ppm
Concentration per Run 3	0.1061 ppm	0.0003 ppm	22.2452 ppm	0.0015 ppm	-0.0018 ppm	-0.0002 ppm	-0.0015 ppm
Concentration RSD	4.1 %	38.9 %	4.2 %	15.4 %	12.7 %	152.4 %	605.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	8.8031 ppm	0.0006 ppm	0.0916 ppm	0.0006 ppm	0.0015 ppm	0.0000 ppm	0.0078 ppm
Concentration per Run 1	8.8625 ppm	0.0007 ppm	0.0933 ppm	0.0004 ppm	0.0013 ppm	-0.0001 ppm	0.0079 ppm
Concentration per Run 2	8.7970 ppm	0.0006 ppm	0.0941 ppm	0.0004 ppm	0.0014 ppm	0.0000 ppm	0.0078 ppm
Concentration per Run 3	8.7497 ppm	0.0003 ppm	0.0873 ppm	0.0010 ppm	0.0017 ppm	0.0001 ppm	0.0077 ppm
Concentration RSD	0.6 %	38.3 %	4.1 %	54.8 %	14.7 %	1,196.0 %	1.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.3841 %	105.7509 %	106.7949 %	94.3986 %	97.0182 %	102.0810 %	0.0028 ppm
Concentration per Run 1	98.8827 %	105.7550 %	106.5462 %	92.3400 %	96.3487 %	101.1982 %	0.0030 ppm
Concentration per Run 2	90.9651 %	105.8782 %	107.0758 %	91.9570 %	97.1504 %	102.2951 %	0.0031 ppm
Concentration per Run 3	96.3045 %	105.6196 %	106.7628 %	98.8989 %	97.5555 %	102.7498 %	0.0023 ppm
Concentration RSD	4.2 %	0.1 %	0.2 %	4.1 %	0.6 %	0.8 %	15.3 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: L2473538-01 WG2010915
Analysis started at: 12/19/2024 8:30:14 PM
Rack: 2
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0188 ppm	0.0017 ppm	0.0207 ppm	0.0308 ppm	0.0000 ppm	38.8621 ppm
Concentration per Run 1	-0.0001 ppm	0.0173 ppm	0.0029 ppm	0.0206 ppm	0.0337 ppm	0.0000 ppm	42.6327 ppm
Concentration per Run 2	0.0007 ppm	0.0210 ppm	0.0005 ppm	0.0209 ppm	0.0302 ppm	0.0000 ppm	37.7039 ppm
Concentration per Run 3	0.0001 ppm	0.0181 ppm	0.0018 ppm	0.0208 ppm	0.0285 ppm	0.0000 ppm	36.2497 ppm
Concentration RSD	180.0 %	10.4 %	69.1 %	0.7 %	8.5 %	554.1 %	8.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0008 ppm	0.0014 ppm	0.0221 ppm	1.5139 ppm	7.0557 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0007 ppm	0.0014 ppm	0.0232 ppm	1.6410 ppm	7.0973 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0009 ppm	0.0015 ppm	0.0225 ppm	1.5084 ppm	7.0663 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0008 ppm	0.0013 ppm	0.0207 ppm	1.3923 ppm	7.0033 ppm
Concentration RSD	811.0 %	51.2 %	12.9 %	6.4 %	5.8 %	8.2 %	0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0014 ppm	0.0002 ppm	3.3504 ppm	0.0005 ppm	-0.0004 ppm	0.0002 ppm	0.0007 ppm
Concentration per Run 1	0.0016 ppm	0.0002 ppm	3.4421 ppm	0.0004 ppm	0.0001 ppm	0.0007 ppm	0.0015 ppm
Concentration per Run 2	0.0020 ppm	0.0002 ppm	3.3116 ppm	0.0004 ppm	-0.0006 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 3	0.0008 ppm	0.0004 ppm	3.2975 ppm	0.0006 ppm	-0.0007 ppm	-0.0004 ppm	0.0005 ppm
Concentration RSD	42.5 %	41.2 %	2.4 %	23.3 %	101.5 %	228.3 %	111.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.1348 ppm	0.0002 ppm	0.1593 ppm	0.0011 ppm	-0.0001 ppm	0.0003 ppm	0.0030 ppm
Concentration per Run 1	4.1448 ppm	0.0005 ppm	0.1740 ppm	0.0011 ppm	0.0005 ppm	0.0003 ppm	0.0032 ppm
Concentration per Run 2	4.1391 ppm	0.0007 ppm	0.1557 ppm	0.0011 ppm	-0.0016 ppm	0.0002 ppm	0.0030 ppm
Concentration per Run 3	4.1205 ppm	-0.0006 ppm	0.1483 ppm	0.0011 ppm	0.0008 ppm	0.0004 ppm	0.0030 ppm
Concentration RSD	0.3 %	332.5 %	8.3 %	1.5 %	1,228.6 %	26.5 %	4.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	97.0319 %	107.0483 %	107.4002 %	93.7048 %	97.1664 %	102.9395 %	-0.0002 ppm
Concentration per Run 1	94.3583 %	106.9139 %	107.6100 %	85.7103 %	97.0035 %	102.3161 %	-0.0002 ppm
Concentration per Run 2	98.5882 %	107.2537 %	107.2439 %	95.5057 %	96.8938 %	103.0652 %	-0.0004 ppm
Concentration per Run 3	98.1491 %	106.9775 %	107.3469 %	99.8985 %	97.6019 %	103.4372 %	0.0001 ppm
Concentration RSD	2.4 %	0.2 %	0.2 %	7.8 %	0.4 %	0.6 %	143.7 %

LabBook: WG2011242_12192024T6.imexp

Sample: L2474304-01 WG2010915
Analysis started at: 12/19/2024 8:36:53 PM
Rack: 1
Vial: 53

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	4.9346 ppm	0.0046 ppm	0.0895 ppm	0.0436 ppm	0.0001 ppm	40.8367 ppm
Concentration per Run 1	-0.0001 ppm	5.0993 ppm	0.0035 ppm	0.0899 ppm	0.0476 ppm	0.0001 ppm	44.6151 ppm
Concentration per Run 2	0.0002 ppm	4.8703 ppm	0.0046 ppm	0.0892 ppm	0.0425 ppm	0.0001 ppm	39.8881 ppm
Concentration per Run 3	0.0006 ppm	4.8343 ppm	0.0056 ppm	0.0894 ppm	0.0406 ppm	0.0001 ppm	38.0069 ppm
Concentration RSD	128.1 %	2.9 %	23.0 %	0.4 %	8.2 %	26.5 %	8.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0006 ppm	0.0070 ppm	0.0183 ppm	1.5176 ppm	12.4119 ppm	5.3603 ppm
Concentration per Run 1	0.0000 ppm	0.0005 ppm	0.0074 ppm	0.0186 ppm	1.6426 ppm	13.5861 ppm	5.3939 ppm
Concentration per Run 2	0.0001 ppm	0.0008 ppm	0.0067 ppm	0.0185 ppm	1.4878 ppm	12.0990 ppm	5.3431 ppm
Concentration per Run 3	0.0001 ppm	0.0006 ppm	0.0069 ppm	0.0179 ppm	1.4224 ppm	11.5506 ppm	5.3439 ppm
Concentration RSD	131.4 %	25.4 %	4.9 %	2.0 %	7.5 %	8.5 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1760 ppm	0.0057 ppm	128.0636 ppm	0.0054 ppm	0.0289 ppm	0.0015 ppm	-0.0005 ppm
Concentration per Run 1	0.1920 ppm	0.0057 ppm	132.4429 ppm	0.0051 ppm	0.0297 ppm	0.0014 ppm	-0.0012 ppm
Concentration per Run 2	0.1716 ppm	0.0059 ppm	126.3829 ppm	0.0054 ppm	0.0280 ppm	0.0013 ppm	0.0009 ppm
Concentration per Run 3	0.1644 ppm	0.0056 ppm	125.3651 ppm	0.0058 ppm	0.0289 ppm	0.0017 ppm	-0.0011 ppm
Concentration RSD	8.2 %	2.6 %	3.0 %	6.2 %	2.9 %	13.1 %	247.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.7109 ppm	0.0005 ppm	0.2594 ppm	0.0465 ppm	0.0002 ppm	0.0104 ppm	0.0305 ppm
Concentration per Run 1	10.7788 ppm	0.0001 ppm	0.2827 ppm	0.0464 ppm	-0.0005 ppm	0.0105 ppm	0.0308 ppm
Concentration per Run 2	10.7011 ppm	0.0012 ppm	0.2536 ppm	0.0467 ppm	0.0007 ppm	0.0104 ppm	0.0305 ppm
Concentration per Run 3	10.6529 ppm	0.0003 ppm	0.2419 ppm	0.0466 ppm	0.0005 ppm	0.0103 ppm	0.0303 ppm
Concentration RSD	0.6 %	111.8 %	8.1 %	0.4 %	283.9 %	0.9 %	0.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.6131 %	102.6797 %	101.9182 %	94.4302 %	88.9134 %	100.1166 %	0.0106 ppm
Concentration per Run 1	93.2182 %	102.5271 %	102.1381 %	86.9210 %	88.5928 %	99.6197 %	0.0117 ppm
Concentration per Run 2	96.5722 %	102.5313 %	102.0027 %	95.9202 %	89.0094 %	99.8597 %	0.0096 ppm
Concentration per Run 3	97.0490 %	102.9806 %	101.6138 %	100.4494 %	89.1380 %	100.8703 %	0.0106 ppm
Concentration RSD	2.2 %	0.3 %	0.3 %	7.3 %	0.3 %	0.7 %	10.1 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010915-3 WG2010915
Analysis started at: 12/19/2024 8:43:30 PM
Rack: 1
Vial: 54

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0523 ppm	7.3014 ppm	0.1341 ppm	1.1694 ppm	2.3789 ppm	0.0570 ppm	50.6814 ppm
Concentration per Run 1	0.0523 ppm	7.5722 ppm	0.1349 ppm	1.1688 ppm	2.5902 ppm	0.0624 ppm	55.3724 ppm
Concentration per Run 2	0.0525 ppm	7.1657 ppm	0.1326 ppm	1.1667 ppm	2.3233 ppm	0.0557 ppm	49.5955 ppm
Concentration per Run 3	0.0522 ppm	7.1665 ppm	0.1347 ppm	1.1726 ppm	2.2231 ppm	0.0530 ppm	47.0765 ppm
Concentration RSD	0.3 %	3.2 %	1.0 %	0.3 %	8.0 %	8.5 %	8.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0551 ppm	0.5517 ppm	0.1973 ppm	0.2864 ppm	2.4795 ppm	24.1410 ppm	15.1032 ppm
Concentration per Run 1	0.0552 ppm	0.5518 ppm	0.1976 ppm	0.2886 ppm	2.6932 ppm	26.2337 ppm	15.1504 ppm
Concentration per Run 2	0.0551 ppm	0.5505 ppm	0.1976 ppm	0.2863 ppm	2.4283 ppm	23.6023 ppm	15.1388 ppm
Concentration per Run 3	0.0551 ppm	0.5527 ppm	0.1968 ppm	0.2842 ppm	2.3170 ppm	22.5868 ppm	15.0203 ppm
Concentration RSD	0.1 %	0.2 %	0.2 %	0.8 %	7.8 %	7.8 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.7069 ppm	1.0250 ppm	141.8159 ppm	0.5198 ppm	0.6064 ppm	0.5753 ppm	0.1414 ppm
Concentration per Run 1	0.7700 ppm	1.0152 ppm	146.4875 ppm	0.5196 ppm	0.6050 ppm	0.5753 ppm	0.1439 ppm
Concentration per Run 2	0.6924 ppm	1.0235 ppm	139.3210 ppm	0.5191 ppm	0.6058 ppm	0.5731 ppm	0.1412 ppm
Concentration per Run 3	0.6582 ppm	1.0363 ppm	139.6394 ppm	0.5209 ppm	0.6085 ppm	0.5776 ppm	0.1391 ppm
Concentration RSD	8.1 %	1.0 %	2.9 %	0.2 %	0.3 %	0.4 %	1.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	11.9248 ppm	0.9726 ppm	1.3634 ppm	1.0716 ppm	0.1264 ppm	0.5066 ppm	0.5673 ppm
Concentration per Run 1	11.9231 ppm	0.9706 ppm	1.4849 ppm	1.0751 ppm	0.1236 ppm	0.5078 ppm	0.5669 ppm
Concentration per Run 2	11.8985 ppm	0.9715 ppm	1.3311 ppm	1.0723 ppm	0.1270 ppm	0.5067 ppm	0.5671 ppm
Concentration per Run 3	11.9528 ppm	0.9758 ppm	1.2742 ppm	1.0675 ppm	0.1287 ppm	0.5053 ppm	0.5678 ppm
Concentration RSD	0.2 %	0.3 %	8.0 %	0.4 %	2.1 %	0.3 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	94.1977 %	102.5426 %	101.0777 %	96.9570 %	87.8721 %	101.1720 %	0.0104 ppm
Concentration per Run 1	91.5242 %	102.6944 %	101.2894 %	89.3104 %	88.0061 %	100.9471 %	0.0118 ppm
Concentration per Run 2	95.2970 %	102.1546 %	101.2019 %	98.2744 %	88.0174 %	100.8350 %	0.0102 ppm
Concentration per Run 3	95.7720 %	102.7789 %	100.7418 %	103.2864 %	87.5927 %	101.7338 %	0.0094 ppm
Concentration RSD	2.5 %	0.3 %	0.3 %	7.3 %	0.3 %	0.5 %	11.5 %

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010915-4 WG2010915
Analysis started at: 12/19/2024 8:49:51 PM
Rack: 1
Vial: 55

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	4.8871 ppm	0.0038 ppm	0.0886 ppm	0.0425 ppm	0.0000 ppm	39.6907 ppm
Concentration per Run 1	0.0004 ppm	5.0870 ppm	0.0028 ppm	0.0896 ppm	0.0464 ppm	0.0000 ppm	43.3301 ppm
Concentration per Run 2	-0.0001 ppm	4.8016 ppm	0.0037 ppm	0.0882 ppm	0.0414 ppm	0.0000 ppm	38.7806 ppm
Concentration per Run 3	0.0005 ppm	4.7729 ppm	0.0049 ppm	0.0878 ppm	0.0396 ppm	0.0001 ppm	36.9615 ppm
Concentration RSD	116.5 %	3.6 %	27.3 %	1.1 %	8.3 %	38.0 %	8.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0006 ppm	0.0067 ppm	0.0180 ppm	1.5442 ppm	12.0745 ppm	5.1434 ppm
Concentration per Run 1	0.0000 ppm	0.0006 ppm	0.0072 ppm	0.0187 ppm	1.6750 ppm	13.1898 ppm	5.3033 ppm
Concentration per Run 2	0.0001 ppm	0.0006 ppm	0.0067 ppm	0.0187 ppm	1.5166 ppm	11.7812 ppm	5.2744 ppm
Concentration per Run 3	0.0001 ppm	0.0008 ppm	0.0062 ppm	0.0167 ppm	1.4410 ppm	11.2524 ppm	4.8524 ppm
Concentration RSD	135.8 %	16.2 %	7.0 %	6.4 %	7.7 %	8.3 %	4.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1715 ppm	0.0079 ppm	126.1570 ppm	0.0055 ppm	0.0292 ppm	0.0008 ppm	0.0004 ppm
Concentration per Run 1	0.1867 ppm	0.0083 ppm	131.0819 ppm	0.0056 ppm	0.0296 ppm	0.0010 ppm	0.0018 ppm
Concentration per Run 2	0.1673 ppm	0.0078 ppm	124.0018 ppm	0.0054 ppm	0.0297 ppm	0.0005 ppm	-0.0018 ppm
Concentration per Run 3	0.1604 ppm	0.0076 ppm	123.3872 ppm	0.0055 ppm	0.0282 ppm	0.0009 ppm	0.0012 ppm
Concentration RSD	8.0 %	5.0 %	3.4 %	1.6 %	2.9 %	36.1 %	492.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.5492 ppm	0.0022 ppm	0.2514 ppm	0.0478 ppm	0.0000 ppm	0.0099 ppm	0.0299 ppm
Concentration per Run 1	10.6538 ppm	0.0024 ppm	0.2738 ppm	0.0500 ppm	0.0002 ppm	0.0103 ppm	0.0302 ppm
Concentration per Run 2	10.5191 ppm	0.0023 ppm	0.2453 ppm	0.0488 ppm	-0.0009 ppm	0.0102 ppm	0.0300 ppm
Concentration per Run 3	10.4748 ppm	0.0018 ppm	0.2351 ppm	0.0448 ppm	0.0006 ppm	0.0094 ppm	0.0296 ppm
Concentration RSD	0.9 %	14.4 %	8.0 %	5.6 %	3,455.2 %	5.0 %	0.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.1046 %	105.1344 %	102.5350 %	95.0127 %	89.4323 %	102.6398 %	0.0106 ppm
Concentration per Run 1	91.8963 %	103.5524 %	102.6595 %	87.1614 %	88.7938 %	99.9893 %	0.0127 ppm
Concentration per Run 2	96.2843 %	103.5251 %	102.4538 %	96.6315 %	89.6336 %	100.5830 %	0.0095 ppm
Concentration per Run 3	97.1334 %	108.3256 %	102.4918 %	101.2453 %	89.8695 %	107.3472 %	0.0097 ppm
Concentration RSD	3.0 %	2.6 %	0.1 %	7.6 %	0.6 %	4.0 %	16.8 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010915-5 WG2010915
Analysis started at: 12/19/2024 8:56:29 PM
Rack: 1
Vial: 56

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0516 ppm	7.2317 ppm	0.1328 ppm	1.1954 ppm	2.4412 ppm	0.0590 ppm	51.0554 ppm
Concentration per Run 1	0.0513 ppm	7.8649 ppm	0.1332 ppm	1.1959 ppm	2.7210 ppm	0.0659 ppm	56.6906 ppm
Concentration per Run 2	0.0520 ppm	6.8919 ppm	0.1324 ppm	1.2011 ppm	2.3547 ppm	0.0571 ppm	49.4956 ppm
Concentration per Run 3	0.0517 ppm	6.9383 ppm	0.1327 ppm	1.1891 ppm	2.2480 ppm	0.0542 ppm	46.9799 ppm
Concentration RSD	0.7 %	7.6 %	0.3 %	0.5 %	10.2 %	10.4 %	9.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0540 ppm	0.5515 ppm	0.1984 ppm	0.2871 ppm	2.5697 ppm	24.7254 ppm	15.3339 ppm
Concentration per Run 1	0.0541 ppm	0.5522 ppm	0.2000 ppm	0.2859 ppm	2.8331 ppm	27.5130 ppm	15.3532 ppm
Concentration per Run 2	0.0539 ppm	0.5519 ppm	0.1986 ppm	0.2880 ppm	2.4947 ppm	23.7515 ppm	15.3673 ppm
Concentration per Run 3	0.0540 ppm	0.5503 ppm	0.1965 ppm	0.2875 ppm	2.3813 ppm	22.9116 ppm	15.2813 ppm
Concentration RSD	0.1 %	0.2 %	0.9 %	0.4 %	9.1 %	9.9 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.7359 ppm	1.0563 ppm	141.5250 ppm	0.5341 ppm	0.6064 ppm	0.5633 ppm	0.1417 ppm
Concentration per Run 1	0.8193 ppm	1.0478 ppm	153.8389 ppm	0.5342 ppm	0.6077 ppm	0.5600 ppm	0.1418 ppm
Concentration per Run 2	0.7115 ppm	1.0600 ppm	134.5975 ppm	0.5350 ppm	0.6064 ppm	0.5669 ppm	0.1405 ppm
Concentration per Run 3	0.6771 ppm	1.0611 ppm	136.1386 ppm	0.5331 ppm	0.6051 ppm	0.5629 ppm	0.1429 ppm
Concentration RSD	10.1 %	0.7 %	7.6 %	0.2 %	0.2 %	0.6 %	0.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	11.7036 ppm	1.0191 ppm	1.4351 ppm	1.1076 ppm	0.1262 ppm	0.5085 ppm	0.5810 ppm
Concentration per Run 1	11.7252 ppm	1.0220 ppm	1.5990 ppm	1.1119 ppm	0.1251 ppm	0.5106 ppm	0.5822 ppm
Concentration per Run 2	11.7438 ppm	1.0191 ppm	1.3841 ppm	1.1092 ppm	0.1261 ppm	0.5087 ppm	0.5800 ppm
Concentration per Run 3	11.6420 ppm	1.0162 ppm	1.3222 ppm	1.1018 ppm	0.1273 ppm	0.5061 ppm	0.5807 ppm
Concentration RSD	0.5 %	0.3 %	10.1 %	0.5 %	0.9 %	0.5 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	92.4675 %	102.9648 %	101.6219 %	95.7170 %	88.6775 %	101.7199 %	0.0111 ppm
Concentration per Run 1	85.9041 %	103.4255 %	102.1045 %	86.6203 %	88.8128 %	101.9596 %	0.0125 ppm
Concentration per Run 2	95.9600 %	102.8645 %	101.2267 %	97.9449 %	88.2222 %	101.6152 %	0.0107 ppm
Concentration per Run 3	95.5385 %	102.6044 %	101.5345 %	102.5859 %	88.9975 %	101.5850 %	0.0101 ppm
Concentration RSD	6.2 %	0.4 %	0.4 %	8.6 %	0.5 %	0.2 %	11.0 %

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010915-6d5 WG2010915
Analysis started at: 12/19/2024 9:02:51 PM
Rack: 1
Vial: 57

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.9845 ppm	0.0014 ppm	0.0196 ppm	0.0082 ppm	0.0000 ppm	7.8443 ppm
Concentration per Run 1	0.0002 ppm	1.0114 ppm	0.0010 ppm	0.0196 ppm	0.0089 ppm	0.0001 ppm	8.5272 ppm
Concentration per Run 2	0.0002 ppm	0.9661 ppm	0.0020 ppm	0.0196 ppm	0.0081 ppm	0.0000 ppm	7.6390 ppm
Concentration per Run 3	0.0003 ppm	0.9759 ppm	0.0011 ppm	0.0198 ppm	0.0078 ppm	0.0000 ppm	7.3668 ppm
Concentration RSD	20.3 %	2.4 %	40.4 %	0.5 %	7.2 %	128.9 %	7.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0011 ppm	0.0037 ppm	0.2969 ppm	2.3164 ppm	1.0769 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0014 ppm	0.0039 ppm	0.3206 ppm	2.4930 ppm	1.0748 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0008 ppm	0.0035 ppm	0.2916 ppm	2.2701 ppm	1.0757 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0012 ppm	0.0037 ppm	0.2786 ppm	2.1862 ppm	1.0803 ppm
Concentration RSD	56.1 %	98.8 %	27.4 %	5.3 %	7.2 %	6.8 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0333 ppm	0.0036 ppm	25.1669 ppm	0.0011 ppm	0.0062 ppm	0.0016 ppm	-0.0008 ppm
Concentration per Run 1	0.0364 ppm	0.0039 ppm	25.8176 ppm	0.0013 ppm	0.0071 ppm	0.0018 ppm	-0.0001 ppm
Concentration per Run 2	0.0321 ppm	0.0035 ppm	24.8561 ppm	0.0008 ppm	0.0062 ppm	0.0019 ppm	-0.0013 ppm
Concentration per Run 3	0.0313 ppm	0.0033 ppm	24.8270 ppm	0.0011 ppm	0.0053 ppm	0.0012 ppm	-0.0010 ppm
Concentration RSD	8.2 %	8.8 %	2.2 %	25.7 %	14.2 %	24.5 %	81.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.0133 ppm	0.0026 ppm	0.0494 ppm	0.0094 ppm	0.0007 ppm	0.0019 ppm	0.0055 ppm
Concentration per Run 1	2.0024 ppm	0.0029 ppm	0.0532 ppm	0.0095 ppm	0.0005 ppm	0.0019 ppm	0.0055 ppm
Concentration per Run 2	2.0172 ppm	0.0026 ppm	0.0485 ppm	0.0096 ppm	0.0004 ppm	0.0019 ppm	0.0054 ppm
Concentration per Run 3	2.0202 ppm	0.0024 ppm	0.0464 ppm	0.0091 ppm	0.0013 ppm	0.0020 ppm	0.0055 ppm
Concentration RSD	0.5 %	9.2 %	7.0 %	3.0 %	66.2 %	4.3 %	1.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.6058 %	106.1654 %	106.7167 %	99.8976 %	97.9368 %	105.2095 %	0.0018 ppm
Concentration per Run 1	92.6028 %	105.3961 %	106.9457 %	92.0359 %	98.5806 %	104.2597 %	0.0020 ppm
Concentration per Run 2	97.2737 %	106.8044 %	106.9598 %	102.2534 %	97.6926 %	105.8325 %	0.0015 ppm
Concentration per Run 3	96.9408 %	106.2957 %	106.2448 %	105.4036 %	97.5371 %	105.5363 %	0.0020 ppm
Concentration RSD	2.7 %	0.7 %	0.4 %	7.0 %	0.6 %	0.8 %	15.5 %

LabBook: WG2011242_12192024T6.imexp

Sample: CCV
Analysis started at: 12/19/2024 9:09:30 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4690 ppm	0.5005 ppm	0.4616 ppm	0.5001 ppm	0.4839 ppm	0.4811 ppm	0.4984 ppm
Concentration per Run 1	0.4695 ppm	0.5117 ppm	0.4649 ppm	0.5038 ppm	0.5055 ppm	0.5042 ppm	0.5218 ppm
Concentration per Run 2	0.4685 ppm	0.4956 ppm	0.4613 ppm	0.4986 ppm	0.4766 ppm	0.4735 ppm	0.4916 ppm
Concentration per Run 3	0.0000 ppm	0.4943 ppm	0.4586 ppm	0.4979 ppm	0.4695 ppm	0.4654 ppm	0.4817 ppm
Recovery Percentage 1	93.802 %	100.108 %	92.321 %	100.017 %	96.775 %	96.214 %	99.675 %
Concentration RSD	0.1 %	1.9 %	0.7 %	0.7 %	3.9 %	4.3 %	4.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4758 ppm	0.5167 ppm	0.4544 ppm	0.4649 ppm	0.4659 ppm	5.0769 ppm	0.4809 ppm
Concentration per Run 1	0.4777 ppm	0.5192 ppm	0.4556 ppm	0.4640 ppm	0.4877 ppm	5.2953 ppm	0.4830 ppm
Concentration per Run 2	0.4755 ppm	0.5160 ppm	0.4532 ppm	0.4657 ppm	0.4588 ppm	5.0228 ppm	0.4788 ppm
Concentration per Run 3	0.4743 ppm	0.5149 ppm	0.0000 ppm	0.0000 ppm	0.4513 ppm	4.9126 ppm	0.0000 ppm
Recovery Percentage 1	95.160 %	103.340 %	90.879 %	92.975 %	93.190 %	101.538 %	96.186 %
Concentration RSD	0.4 %	0.4 %	0.4 %	0.3 %	4.1 %	3.9 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4657 ppm	0.4910 ppm	10.5591 ppm	0.4935 ppm	0.5083 ppm	0.5194 ppm	0.5070 ppm
Concentration per Run 1	0.4884 ppm	0.4928 ppm	10.8572 ppm	0.4961 ppm	0.5121 ppm	0.5238 ppm	0.5121 ppm
Concentration per Run 2	0.4575 ppm	0.4898 ppm	10.4269 ppm	0.4916 ppm	0.5063 ppm	0.5177 ppm	0.5026 ppm
Concentration per Run 3	0.4512 ppm	0.4904 ppm	10.3931 ppm	0.4928 ppm	0.5066 ppm	0.5166 ppm	0.5063 ppm
Recovery Percentage 1	93.138 %	98.199 %	105.591 %	98.695 %	101.668 %	103.874 %	101.402 %
Concentration RSD	4.3 %	0.3 %	2.5 %	0.5 %	0.6 %	0.7 %	0.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.7469 ppm	0.4844 ppm	0.5012 ppm	0.4933 ppm	0.4983 ppm	0.4646 ppm	0.5106 ppm
Concentration per Run 1	5.7905 ppm	0.4869 ppm	0.5239 ppm	0.4942 ppm	0.5009 ppm	0.4649 ppm	0.5116 ppm
Concentration per Run 2	5.7303 ppm	0.4843 ppm	0.4933 ppm	0.4924 ppm	0.4979 ppm	0.4643 ppm	0.5105 ppm
Concentration per Run 3	5.7198 ppm	0.4821 ppm	0.4865 ppm	0.0000 ppm	0.4960 ppm	0.0000 ppm	0.5098 ppm
Recovery Percentage 1	109.465 %	96.889 %	100.244 %	98.661 %	99.654 %	92.923 %	102.125 %
Concentration RSD	0.7 %	0.5 %	4.0 %	0.2 %	0.5 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	94.0372 %	107.3199 %	107.6652 %	106.1635 %	97.9448 %	106.0654 %	0.5087 ppm
Concentration per Run 1	91.5025 %	106.0006 %	107.2094 %	101.3753 %	96.9536 %	106.3788 %	0.5307 ppm
Concentration per Run 2	94.8794 %	105.3065 %	107.8484 %	107.2137 %	98.3955 %	105.7520 %	0.5021 ppm
Concentration per Run 3	95.7297 %	110.6528 %	107.9376 %	109.9016 %	98.4854 %	0.0000 %	0.4934 ppm
Recovery Percentage 1							101.744 %
Concentration RSD	2.4 %	2.7 %	0.4 %	4.1 %	0.9 %	0.4 %	3.8 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: CCB
Analysis started at: 12/19/2024 9:15:56 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0029 ppm	0.0001 ppm	0.0025 ppm	0.0000 ppm	0.0000 ppm	0.0220 ppm
Concentration per Run 1	0.0001 ppm	0.0019 ppm	-0.0004 ppm	0.0026 ppm	0.0001 ppm	0.0000 ppm	0.0203 ppm
Concentration per Run 2	0.0001 ppm	-0.0045 ppm	0.0004 ppm	0.0025 ppm	-0.0001 ppm	0.0000 ppm	0.0220 ppm
Concentration per Run 3	0.0002 ppm	-0.0061 ppm	0.0002 ppm	0.0024 ppm	-0.0001 ppm	-0.0001 ppm	0.0237 ppm
Recovery Percentage 1	1.651 %	-2.906 %	1.475 %	8.375 %	-0.226 %	-0.601 %	22.012 %
Concentration RSD	27.2 %	147.0 %	532.7 %	3.4 %	626.3 %	121.7 %	7.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm	-0.0004 ppm	-0.0096 ppm	-0.0002 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0026 ppm	-0.0247 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0004 ppm	0.0002 ppm	-0.0026 ppm	-0.0157 ppm	-0.0012 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	-0.0012 ppm	0.0117 ppm	0.0002 ppm
Recovery Percentage 1	0.743 %	-0.382 %	-0.998 %	1.271 %	-0.825 %	-0.383 %	-0.244 %
Concentration RSD	113.7 %	54.7 %	264.9 %	110.2 %	661.3 %	198.3 %	322.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0005 ppm	0.0010 ppm	0.0086 ppm	-0.0001 ppm	0.0002 ppm	0.0019 ppm	0.0003 ppm
Concentration per Run 1	-0.0007 ppm	0.0010 ppm	0.0071 ppm	0.0000 ppm	0.0004 ppm	0.0021 ppm	-0.0003 ppm
Concentration per Run 2	-0.0001 ppm	0.0011 ppm	0.0131 ppm	-0.0002 ppm	0.0001 ppm	0.0015 ppm	0.0007 ppm
Concentration per Run 3	-0.0007 ppm	0.0009 ppm	0.0058 ppm	0.0000 ppm	0.0000 ppm	0.0021 ppm	0.0007 ppm
Recovery Percentage 1	-4.962 %	1.993 %	0.432 %	-0.378 %	1.863 %	3.815 %	3.373 %
Concentration RSD	69.1 %	10.9 %	44.8 %	130.9 %	116.0 %	18.4 %	172.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0030 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	-0.0005 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 1	0.0033 ppm	0.0007 ppm	0.0000 ppm	-0.0001 ppm	-0.0011 ppm	-0.0003 ppm	0.0002 ppm
Concentration per Run 2	0.0023 ppm	0.0006 ppm	0.0000 ppm	0.0002 ppm	0.0001 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 3	0.0035 ppm	0.0002 ppm	0.0000 ppm	0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0003 ppm
Recovery Percentage 1	0.605 %	0.993 %	0.349 %	0.582 %	-2.360 %	-1.326 %	4.432 %
Concentration RSD	19.8 %	51.0 %	56.7 %	215.2 %	135.3 %	110.9 %	27.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	93.9811 %	106.6135 %	108.5279 %	103.4066 %	99.1243 %	105.8404 %	0.0005 ppm
Concentration per Run 1	92.8475 %	106.9758 %	108.3806 %	98.4898 %	98.9043 %	106.0944 %	0.0004 ppm
Concentration per Run 2	94.5736 %	106.5747 %	108.2125 %	104.5486 %	98.9019 %	105.7821 %	0.0001 ppm
Concentration per Run 3	94.5221 %	106.2899 %	108.9907 %	107.1814 %	99.5668 %	105.6448 %	0.0009 ppm
Recovery Percentage 1							4.877 %
Concentration RSD	1.0 %	0.3 %	0.4 %	4.3 %	0.4 %	0.2 %	87.6 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: CCV
Analysis started at: 12/19/2024 9:50:36 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4672 ppm	0.5162 ppm	0.4655 ppm	0.5051 ppm	0.4988 ppm	0.4963 ppm	0.5163 ppm
Concentration per Run 1	0.4665 ppm	0.5216 ppm	0.4609 ppm	0.5032 ppm	0.5060 ppm	0.5037 ppm	0.5246 ppm
Concentration per Run 2	0.4659 ppm	0.5084 ppm	0.4667 ppm	0.5040 ppm	0.4953 ppm	0.4929 ppm	0.5078 ppm
Concentration per Run 3	0.4692 ppm	0.5187 ppm	0.4690 ppm	0.5082 ppm	0.4951 ppm	0.4923 ppm	0.5166 ppm
Recovery Percentage 1	93.437 %	103.247 %	93.104 %	101.023 %	99.760 %	99.266 %	103.270 %
Concentration RSD	0.4 %	1.3 %	0.9 %	0.5 %	1.2 %	1.3 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4789 ppm	0.5212 ppm	0.4527 ppm	0.4627 ppm	0.4824 ppm	5.1556 ppm	0.4823 ppm
Concentration per Run 1	0.4788 ppm	0.5206 ppm	0.4523 ppm	0.4612 ppm	0.4893 ppm	5.2151 ppm	0.4798 ppm
Concentration per Run 2	0.4791 ppm	0.5204 ppm	0.4523 ppm	0.4621 ppm	0.4767 ppm	5.1567 ppm	0.4815 ppm
Concentration per Run 3	0.4787 ppm	0.5226 ppm	0.4535 ppm	0.4649 ppm	0.4811 ppm	5.0951 ppm	0.4856 ppm
Recovery Percentage 1	95.774 %	104.240 %	90.536 %	92.545 %	96.471 %	103.113 %	96.455 %
Concentration RSD	0.0 %	0.2 %	0.2 %	0.4 %	1.3 %	1.2 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4832 ppm	0.4956 ppm	10.7933 ppm	0.4976 ppm	0.5118 ppm	0.5229 ppm	0.5114 ppm
Concentration per Run 1	0.4914 ppm	0.4929 ppm	10.9343 ppm	0.4966 ppm	0.5115 ppm	0.5203 ppm	0.5096 ppm
Concentration per Run 2	0.4783 ppm	0.4954 ppm	10.7295 ppm	0.4983 ppm	0.5119 ppm	0.5231 ppm	0.5113 ppm
Concentration per Run 3	0.4801 ppm	0.4985 ppm	10.7162 ppm	0.4978 ppm	0.5119 ppm	0.5251 ppm	0.5132 ppm
Recovery Percentage 1	96.647 %	99.116 %	107.933 %	99.511 %	102.355 %	104.574 %	102.271 %
Concentration RSD	1.5 %	0.6 %	1.1 %	0.2 %	0.0 %	0.5 %	0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.7029 ppm	0.4864 ppm	0.5152 ppm	0.4932 ppm	0.5010 ppm	0.4630 ppm	0.5144 ppm
Concentration per Run 1	5.6906 ppm	0.4855 ppm	0.5235 ppm	0.4932 ppm	0.4999 ppm	0.4621 ppm	0.5151 ppm
Concentration per Run 2	5.7028 ppm	0.4860 ppm	0.5112 ppm	0.4922 ppm	0.5002 ppm	0.4626 ppm	0.5147 ppm
Concentration per Run 3	5.7154 ppm	0.4876 ppm	0.5110 ppm	0.4940 ppm	0.5028 ppm	0.4641 ppm	0.5135 ppm
Recovery Percentage 1	108.627 %	97.272 %	103.049 %	98.631 %	100.190 %	92.591 %	102.884 %
Concentration RSD	0.2 %	0.2 %	1.4 %	0.2 %	0.3 %	0.2 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	93.8941 %	105.0380 %	105.9670 %	122.3573 %	96.9614 %	107.4865 %	0.4487 ppm
Concentration per Run 1	92.8419 %	104.8351 %	106.5718 %	124.3550 %	97.6360 %	107.4937 %	0.4433 ppm
Concentration per Run 2	94.4949 %	105.0134 %	106.0707 %	122.9403 %	97.1370 %	107.5052 %	0.4454 ppm
Concentration per Run 3	94.3455 %	105.2656 %	105.2585 %	119.7767 %	96.1111 %	107.4607 %	0.4574 ppm
Recovery Percentage 1							89.744 %
Concentration RSD	1.0 %	0.2 %	0.6 %	1.9 %	0.8 %	0.0 %	1.7 %

LabBook: WG2011242_12192024T6.imexp

Sample: CCB
Analysis started at: 12/19/2024 9:57:01 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0008 ppm	0.0001 ppm	0.0015 ppm	0.0000 ppm	0.0000 ppm	0.0252 ppm
Concentration per Run 1	0.0002 ppm	0.0026 ppm	0.0001 ppm	0.0015 ppm	-0.0001 ppm	0.0000 ppm	0.0276 ppm
Concentration per Run 2	0.0001 ppm	0.0012 ppm	0.0001 ppm	0.0015 ppm	0.0001 ppm	0.0000 ppm	0.0189 ppm
Concentration per Run 3	0.0000 ppm	-0.0063 ppm	-0.0001 ppm	0.0015 ppm	-0.0001 ppm	0.0000 ppm	0.0290 ppm
Recovery Percentage 1	1.643 %	-0.818 %	1.077 %	4.990 %	-0.105 %	-0.105 %	25.175 %
Concentration RSD	97.7 %	581.1 %	196.4 %	3.0 %	1,015.3 %	265.1 %	21.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	-0.0003 ppm	0.0028 ppm	-0.0010 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0009 ppm	-0.0090 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0293 ppm	-0.0011 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	-0.0020 ppm	-0.0120 ppm	-0.0018 ppm
Recovery Percentage 1	1.024 %	-0.125 %	-1.116 %	2.488 %	-0.653 %	0.110 %	-0.979 %
Concentration RSD	50.8 %	434.1 %	40.4 %	11.2 %	462.9 %	834.2 %	87.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0001 ppm	0.0009 ppm	0.0085 ppm	-0.0002 ppm	-0.0002 ppm	0.0006 ppm	0.0008 ppm
Concentration per Run 1	-0.0002 ppm	0.0010 ppm	0.0068 ppm	-0.0005 ppm	0.0000 ppm	-0.0001 ppm	0.0021 ppm
Concentration per Run 2	-0.0001 ppm	0.0009 ppm	0.0094 ppm	-0.0002 ppm	-0.0004 ppm	0.0008 ppm	0.0007 ppm
Concentration per Run 3	-0.0001 ppm	0.0010 ppm	0.0093 ppm	0.0002 ppm	-0.0001 ppm	0.0010 ppm	-0.0003 ppm
Recovery Percentage 1	-1.424 %	1.883 %	0.425 %	-0.677 %	-1.837 %	1.169 %	8.053 %
Concentration RSD	47.0 %	5.3 %	17.7 %	223.1 %	112.6 %	101.5 %	147.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0022 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 1	0.0028 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0007 ppm	-0.0002 ppm	0.0002 ppm
Concentration per Run 2	0.0013 ppm	0.0005 ppm	-0.0001 ppm	0.0003 ppm	0.0011 ppm	-0.0002 ppm	0.0002 ppm
Concentration per Run 3	0.0024 ppm	0.0008 ppm	0.0001 ppm	-0.0001 ppm	0.0012 ppm	0.0001 ppm	0.0003 ppm
Recovery Percentage 1	0.439 %	1.127 %	0.000 %	0.513 %	2.823 %	-1.069 %	4.552 %
Concentration RSD	36.1 %	45.5 %	216,067.3 %	389.2 %	187.7 %	148.1 %	22.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	94.4756 %	105.4410 %	107.7117 %	103.5367 %	98.7531 %	104.8205 %	0.0003 ppm
Concentration per Run 1	93.0225 %	105.3209 %	108.2496 %	98.3448 %	99.2321 %	104.5197 %	0.0002 ppm
Concentration per Run 2	95.5176 %	105.3039 %	107.2105 %	105.1247 %	98.1767 %	104.7385 %	0.0010 ppm
Concentration per Run 3	94.8868 %	105.6981 %	107.6751 %	107.1405 %	98.8505 %	105.2032 %	-0.0004 ppm
Recovery Percentage 1							2.882 %
Concentration RSD	1.4 %	0.2 %	0.5 %	4.5 %	0.5 %	0.3 %	247.2 %

LabBook: WG2011242_12192024T6.imexp

Sample: L2473538-04 WG2010915
Analysis started at: 12/19/2024 10:09:08 PM
Rack: 2
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0099 ppm	0.0016 ppm	0.0073 ppm	0.0361 ppm	0.0000 ppm	6.3262 ppm
Concentration per Run 1	0.0000 ppm	0.0070 ppm	0.0015 ppm	0.0073 ppm	0.0378 ppm	0.0000 ppm	6.6606 ppm
Concentration per Run 2	0.0000 ppm	0.0134 ppm	0.0009 ppm	0.0072 ppm	0.0351 ppm	0.0000 ppm	6.1428 ppm
Concentration per Run 3	-0.0001 ppm	0.0093 ppm	0.0024 ppm	0.0076 ppm	0.0354 ppm	0.0000 ppm	6.1751 ppm
Concentration RSD	164.1 %	32.8 %	45.5 %	3.0 %	4.1 %	29.3 %	4.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0006 ppm	0.0006 ppm	0.0117 ppm	1.1202 ppm	1.9002 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0006 ppm	0.0008 ppm	0.0142 ppm	1.1762 ppm	1.8998 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0005 ppm	0.0115 ppm	1.0732 ppm	1.9050 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	0.0009 ppm	0.0006 ppm	0.0095 ppm	1.1111 ppm	1.8958 ppm
Concentration RSD	65.5 %	20.1 %	48.6 %	25.0 %	20.1 %	4.6 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0053 ppm	0.0002 ppm	4.8114 ppm	0.0009 ppm	-0.0009 ppm	0.0001 ppm	0.0014 ppm
Concentration per Run 1	0.0058 ppm	0.0002 ppm	5.0133 ppm	0.0009 ppm	-0.0008 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 2	0.0050 ppm	0.0002 ppm	4.6969 ppm	0.0010 ppm	-0.0013 ppm	-0.0001 ppm	0.0033 ppm
Concentration per Run 3	0.0052 ppm	0.0000 ppm	4.7240 ppm	0.0007 ppm	-0.0007 ppm	0.0003 ppm	0.0008 ppm
Concentration RSD	8.0 %	66.9 %	3.6 %	18.6 %	36.9 %	224.8 %	112.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.8819 ppm	0.0001 ppm	0.0254 ppm	0.0002 ppm	0.0008 ppm	-0.0001 ppm	0.0096 ppm
Concentration per Run 1	4.8723 ppm	0.0002 ppm	0.0264 ppm	0.0003 ppm	0.0005 ppm	-0.0002 ppm	0.0098 ppm
Concentration per Run 2	4.8949 ppm	0.0000 ppm	0.0248 ppm	0.0003 ppm	0.0010 ppm	0.0001 ppm	0.0097 ppm
Concentration per Run 3	4.8784 ppm	0.0000 ppm	0.0250 ppm	0.0000 ppm	0.0009 ppm	-0.0001 ppm	0.0095 ppm
Concentration RSD	0.2 %	160.8 %	3.4 %	74.0 %	32.2 %	182.1 %	1.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.3822 %	107.8181 %	109.9708 %	94.3395 %	100.4953 %	104.6334 %	0.0006 ppm
Concentration per Run 1	91.2840 %	107.3471 %	110.4269 %	84.3802 %	100.2812 %	103.8272 %	0.0013 ppm
Concentration per Run 2	97.9283 %	108.1181 %	109.6761 %	96.9753 %	100.2215 %	104.8463 %	-0.0007 ppm
Concentration per Run 3	96.9342 %	107.9889 %	109.8093 %	101.6629 %	100.9833 %	105.2268 %	0.0012 ppm
Concentration RSD	3.8 %	0.4 %	0.4 %	9.5 %	0.4 %	0.7 %	181.2 %

LabBook: WG2011242_12192024T6.imexp

Sample: L2473538-05 WG2010915
Analysis started at: 12/19/2024 10:15:49 PM
Rack: 2
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0435 ppm	0.0012 ppm	0.0084 ppm	0.0054 ppm	0.0000 ppm	20.9008 ppm
Concentration per Run 1	0.0001 ppm	0.0437 ppm	0.0000 ppm	0.0085 ppm	0.0056 ppm	0.0000 ppm	21.6958 ppm
Concentration per Run 2	0.0001 ppm	0.0422 ppm	0.0011 ppm	0.0083 ppm	0.0054 ppm	0.0000 ppm	20.5413 ppm
Concentration per Run 3	-0.0001 ppm	0.0446 ppm	0.0023 ppm	0.0083 ppm	0.0052 ppm	0.0000 ppm	20.4654 ppm
Concentration RSD	463.0 %	2.8 %	98.5 %	1.6 %	3.4 %	117.3 %	3.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0004 ppm	-0.0001 ppm	0.0008 ppm	0.1205 ppm	0.7861 ppm	2.6287 ppm
Concentration per Run 1	0.0001 ppm	-0.0006 ppm	-0.0003 ppm	0.0007 ppm	0.1321 ppm	0.8128 ppm	2.6252 ppm
Concentration per Run 2	0.0001 ppm	-0.0004 ppm	0.0001 ppm	0.0007 ppm	0.1167 ppm	0.7883 ppm	2.6326 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	-0.0001 ppm	0.0009 ppm	0.1127 ppm	0.7573 ppm	2.6283 ppm
Concentration RSD	15.1 %	46.6 %	227.3 %	18.7 %	8.5 %	3.5 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0247 ppm	0.0005 ppm	6.4997 ppm	0.0003 ppm	-0.0025 ppm	0.0006 ppm	-0.0001 ppm
Concentration per Run 1	0.0257 ppm	0.0006 ppm	6.7428 ppm	-0.0002 ppm	-0.0023 ppm	0.0014 ppm	0.0005 ppm
Concentration per Run 2	0.0240 ppm	0.0005 ppm	6.4015 ppm	0.0006 ppm	-0.0024 ppm	0.0000 ppm	-0.0015 ppm
Concentration per Run 3	0.0244 ppm	0.0004 ppm	6.3547 ppm	0.0005 ppm	-0.0027 ppm	0.0005 ppm	0.0007 ppm
Concentration RSD	3.6 %	15.1 %	3.3 %	154.4 %	7.8 %	113.4 %	1,014.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	11.1766 ppm	0.0001 ppm	0.1321 ppm	0.0017 ppm	0.0010 ppm	0.0013 ppm	-0.0003 ppm
Concentration per Run 1	11.1661 ppm	0.0002 ppm	0.1370 ppm	0.0017 ppm	0.0004 ppm	0.0015 ppm	-0.0003 ppm
Concentration per Run 2	11.1624 ppm	-0.0002 ppm	0.1300 ppm	0.0017 ppm	0.0010 ppm	0.0013 ppm	-0.0004 ppm
Concentration per Run 3	11.2013 ppm	0.0003 ppm	0.1293 ppm	0.0016 ppm	0.0015 ppm	0.0012 ppm	-0.0002 ppm
Concentration RSD	0.2 %	244.1 %	3.2 %	3.2 %	59.8 %	11.6 %	39.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	94.7264 %	106.3565 %	108.0027 %	94.4728 %	98.3129 %	103.4646 %	0.0015 ppm
Concentration per Run 1	91.9404 %	106.4174 %	108.1804 %	86.6344 %	97.8832 %	103.0578 %	0.0017 ppm
Concentration per Run 2	96.1442 %	106.2426 %	108.3015 %	96.3693 %	98.6234 %	103.3756 %	0.0018 ppm
Concentration per Run 3	96.0945 %	106.4094 %	107.5263 %	100.4148 %	98.4323 %	103.9603 %	0.0012 ppm
Concentration RSD	2.5 %	0.1 %	0.4 %	7.5 %	0.4 %	0.4 %	21.2 %

LabBook: WG2011242_12192024T6.imexp

Sample: L2473642-01 WG2010915
Analysis started at: 12/19/2024 10:22:28 PM
Rack: 2
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.2820 ppm	0.0035 ppm	0.0588 ppm	0.0238 ppm	0.0000 ppm	24.1770 ppm
Concentration per Run 1	0.0002 ppm	0.2982 ppm	0.0027 ppm	0.0590 ppm	0.0255 ppm	0.0000 ppm	25.8871 ppm
Concentration per Run 2	0.0002 ppm	0.2763 ppm	0.0034 ppm	0.0585 ppm	0.0229 ppm	0.0000 ppm	23.3253 ppm
Concentration per Run 3	0.0002 ppm	0.2715 ppm	0.0043 ppm	0.0589 ppm	0.0229 ppm	0.0000 ppm	23.3185 ppm
Concentration RSD	11.5 %	5.0 %	23.2 %	0.5 %	6.4 %	299.0 %	6.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0005 ppm	0.0014 ppm	0.0069 ppm	1.0296 ppm	3.6382 ppm	3.2324 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	0.0015 ppm	0.0071 ppm	1.1475 ppm	3.8756 ppm	3.2522 ppm
Concentration per Run 2	0.0001 ppm	0.0005 ppm	0.0013 ppm	0.0070 ppm	0.9918 ppm	3.5051 ppm	3.2218 ppm
Concentration per Run 3	0.0000 ppm	0.0006 ppm	0.0014 ppm	0.0066 ppm	0.9497 ppm	3.5338 ppm	3.2232 ppm
Concentration RSD	58.3 %	7.1 %	7.2 %	3.7 %	10.1 %	5.7 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0730 ppm	0.0047 ppm	63.5475 ppm	0.0016 ppm	0.0054 ppm	0.0013 ppm	0.0011 ppm
Concentration per Run 1	0.0784 ppm	0.0047 ppm	68.0960 ppm	0.0015 ppm	0.0051 ppm	0.0017 ppm	0.0023 ppm
Concentration per Run 2	0.0703 ppm	0.0046 ppm	61.4055 ppm	0.0016 ppm	0.0054 ppm	0.0017 ppm	0.0009 ppm
Concentration per Run 3	0.0702 ppm	0.0049 ppm	61.1408 ppm	0.0017 ppm	0.0057 ppm	0.0006 ppm	0.0002 ppm
Concentration RSD	6.5 %	3.3 %	6.2 %	5.9 %	5.7 %	49.2 %	97.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.2303 ppm	0.0003 ppm	0.1478 ppm	0.0129 ppm	0.0020 ppm	0.0014 ppm	0.0623 ppm
Concentration per Run 1	3.2254 ppm	0.0005 ppm	0.1584 ppm	0.0132 ppm	0.0022 ppm	0.0013 ppm	0.0627 ppm
Concentration per Run 2	3.2216 ppm	0.0002 ppm	0.1427 ppm	0.0126 ppm	0.0011 ppm	0.0014 ppm	0.0623 ppm
Concentration per Run 3	3.2440 ppm	0.0002 ppm	0.1423 ppm	0.0129 ppm	0.0027 ppm	0.0014 ppm	0.0617 ppm
Concentration RSD	0.4 %	52.8 %	6.2 %	2.5 %	40.9 %	5.0 %	0.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	92.9757 %	104.3609 %	105.0394 %	93.0494 %	93.9364 %	101.9919 %	0.0041 ppm
Concentration per Run 1	87.5508 %	104.1794 %	105.0772 %	83.1259 %	93.7259 %	101.4013 %	0.0051 ppm
Concentration per Run 2	95.7430 %	104.0634 %	105.4636 %	95.8411 %	94.3377 %	101.7480 %	0.0036 ppm
Concentration per Run 3	95.6333 %	104.8399 %	104.5775 %	100.1812 %	93.7455 %	102.8266 %	0.0036 ppm
Concentration RSD	5.1 %	0.4 %	0.4 %	9.5 %	0.4 %	0.7 %	20.0 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: L2473756-01 WG2010915
Analysis started at: 12/19/2024 10:29:08 PM
Rack: 2
Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0285 ppm	0.0050 ppm	0.4889 ppm	0.0279 ppm	-0.0001 ppm	449.7858 ppm
Concentration per Run 1	0.0002 ppm	0.0309 ppm	0.0039 ppm	0.4902 ppm	0.0287 ppm	-0.0002 ppm	464.7903 ppm
Concentration per Run 2	0.0000 ppm	0.0238 ppm	0.0053 ppm	0.4891 ppm	0.0276 ppm	-0.0001 ppm	444.2375 ppm
Concentration per Run 3	-0.0002 ppm	0.0308 ppm	0.0059 ppm	0.4875 ppm	0.0275 ppm	-0.0002 ppm	440.3295 ppm
Concentration RSD	2,322.6 %	14.2 %	20.9 %	0.3 %	2.5 %	32.6 %	2.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0008 ppm	0.0035 ppm	0.0010 ppm	0.0020 ppm	8.7854 ppm	71.1789 ppm	109.1496 ppm
Concentration per Run 1	-0.0009 ppm	0.0035 ppm	0.0008 ppm	0.0021 ppm	9.3771 ppm	73.1673 ppm	109.0735 ppm
Concentration per Run 2	-0.0008 ppm	0.0034 ppm	0.0012 ppm	0.0020 ppm	8.6434 ppm	70.1506 ppm	109.3561 ppm
Concentration per Run 3	-0.0008 ppm	0.0036 ppm	0.0010 ppm	0.0019 ppm	8.3357 ppm	70.2188 ppm	109.0190 ppm
Concentration RSD	5.4 %	2.2 %	19.8 %	7.2 %	6.1 %	2.4 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.0743 ppm	0.0327 ppm	196.2416 ppm	0.0002 ppm	-0.0020 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 1	2.1418 ppm	0.0325 ppm	201.6144 ppm	-0.0001 ppm	-0.0011 ppm	-0.0009 ppm	0.0009 ppm
Concentration per Run 2	2.0486 ppm	0.0327 ppm	193.4313 ppm	0.0002 ppm	-0.0035 ppm	0.0012 ppm	-0.0011 ppm
Concentration per Run 3	2.0324 ppm	0.0327 ppm	193.6792 ppm	0.0005 ppm	-0.0013 ppm	-0.0002 ppm	-0.0001 ppm
Concentration RSD	2.8 %	0.3 %	2.4 %	165.5 %	67.0 %	2,788.7 %	1,102.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	11.2025 ppm	0.0019 ppm	2.0662 ppm	0.0013 ppm	-0.0018 ppm	-0.0007 ppm	-0.0005 ppm
Concentration per Run 1	11.1855 ppm	0.0016 ppm	2.1246 ppm	0.0015 ppm	-0.0024 ppm	-0.0005 ppm	-0.0007 ppm
Concentration per Run 2	11.1689 ppm	0.0018 ppm	2.0361 ppm	0.0013 ppm	-0.0028 ppm	-0.0008 ppm	-0.0006 ppm
Concentration per Run 3	11.2532 ppm	0.0024 ppm	2.0379 ppm	0.0012 ppm	-0.0003 ppm	-0.0008 ppm	-0.0002 ppm
Concentration RSD	0.4 %	19.7 %	2.4 %	12.7 %	73.3 %	24.7 %	51.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	91.0086 %	94.4209 %	90.5516 %	97.5322 %	79.9720 %	93.8639 %	0.1466 ppm
Concentration per Run 1	88.4121 %	94.4041 %	90.9839 %	90.8467 %	80.1196 %	93.6364 %	0.1575 ppm
Concentration per Run 2	92.2722 %	94.4325 %	90.7815 %	99.3097 %	80.0004 %	93.8712 %	0.1429 ppm
Concentration per Run 3	92.3414 %	94.4262 %	89.8893 %	102.4400 %	79.7961 %	94.0840 %	0.1394 ppm
Concentration RSD	2.5 %	0.0 %	0.6 %	6.1 %	0.2 %	0.2 %	6.5 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: L2474329-01 WG2010915
Analysis started at: 12/19/2024 10:35:45 PM
Rack: 2
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0073 ppm	0.0019 ppm	0.0212 ppm	0.0437 ppm	0.0000 ppm	10.9507 ppm
Concentration per Run 1	0.0000 ppm	0.0087 ppm	0.0026 ppm	0.0212 ppm	0.0452 ppm	0.0001 ppm	11.4075 ppm
Concentration per Run 2	0.0001 ppm	0.0084 ppm	0.0029 ppm	0.0213 ppm	0.0429 ppm	0.0000 ppm	10.7201 ppm
Concentration per Run 3	0.0004 ppm	0.0049 ppm	0.0001 ppm	0.0211 ppm	0.0430 ppm	0.0000 ppm	10.7246 ppm
Concentration RSD	147.6 %	28.8 %	80.3 %	0.5 %	3.1 %	539.1 %	3.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0009 ppm	0.0068 ppm	1.6928 ppm	3.1952 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0010 ppm	0.0089 ppm	1.7438 ppm	3.2111 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0009 ppm	0.0008 ppm	0.0052 ppm	1.6741 ppm	3.2044 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0007 ppm	0.0064 ppm	1.6607 ppm	3.1701 ppm
Concentration RSD	78.7 %	639.1 %	68.9 %	15.4 %	27.7 %	2.6 %	0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0072 ppm	-0.0001 ppm	58.0386 ppm	0.0007 ppm	-0.0006 ppm	-0.0011 ppm	0.0010 ppm
Concentration per Run 1	0.0071 ppm	0.0000 ppm	59.9875 ppm	0.0007 ppm	-0.0008 ppm	-0.0014 ppm	-0.0001 ppm
Concentration per Run 2	0.0077 ppm	-0.0002 ppm	57.1609 ppm	0.0007 ppm	-0.0008 ppm	-0.0010 ppm	0.0020 ppm
Concentration per Run 3	0.0068 ppm	-0.0002 ppm	56.9675 ppm	0.0008 ppm	-0.0001 ppm	-0.0009 ppm	0.0012 ppm
Concentration RSD	5.9 %	91.8 %	2.9 %	8.2 %	78.8 %	20.5 %	105.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.1022 ppm	-0.0001 ppm	0.0518 ppm	0.0001 ppm	0.0016 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 1	3.1055 ppm	0.0000 ppm	0.0535 ppm	0.0001 ppm	0.0024 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 2	3.1060 ppm	-0.0001 ppm	0.0509 ppm	0.0002 ppm	0.0011 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 3	3.0949 ppm	-0.0002 ppm	0.0511 ppm	0.0000 ppm	0.0012 ppm	-0.0001 ppm	0.0000 ppm
Concentration RSD	0.2 %	88.9 %	2.8 %	84.6 %	45.8 %	101.9 %	76.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	93.1699 %	103.9351 %	105.9110 %	91.6419 %	95.1663 %	101.0327 %	0.0000 ppm
Concentration per Run 1	90.0961 %	103.6521 %	105.6634 %	83.9284 %	94.7058 %	100.3320 %	-0.0006 ppm
Concentration per Run 2	94.8237 %	103.8606 %	106.0139 %	93.3931 %	95.4784 %	100.9897 %	0.0000 ppm
Concentration per Run 3	94.5900 %	104.2924 %	106.0557 %	97.6042 %	95.3148 %	101.7764 %	0.0005 ppm
Concentration RSD	2.9 %	0.3 %	0.2 %	7.6 %	0.4 %	0.7 %	1,240.4 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: L2474304-02 WG2010915
Analysis started at: 12/19/2024 10:42:26 PM
Rack: 1
Vial: 58

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0278 ppm	0.0018 ppm	0.0790 ppm	0.0378 ppm	-0.0001 ppm	43.4015 ppm
Concentration per Run 1	0.0000 ppm	0.0354 ppm	0.0009 ppm	0.0793 ppm	0.0392 ppm	0.0000 ppm	45.4670 ppm
Concentration per Run 2	0.0002 ppm	0.0247 ppm	0.0026 ppm	0.0788 ppm	0.0373 ppm	-0.0001 ppm	42.6776 ppm
Concentration per Run 3	0.0000 ppm	0.0232 ppm	0.0019 ppm	0.0789 ppm	0.0368 ppm	-0.0001 ppm	42.0597 ppm
Concentration RSD	231.8 %	23.9 %	48.2 %	0.3 %	3.4 %	49.2 %	4.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0016 ppm	0.0163 ppm	7.9166 ppm	5.5729 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0017 ppm	0.0183 ppm	8.2264 ppm	5.6126 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0018 ppm	0.0162 ppm	7.8123 ppm	5.5627 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0015 ppm	0.0143 ppm	7.7110 ppm	5.5434 ppm
Concentration RSD	481.9 %	71.5 %	187.2 %	9.7 %	12.5 %	3.4 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1016 ppm	0.0000 ppm	104.0780 ppm	0.0012 ppm	-0.0013 ppm	0.0003 ppm	-0.0007 ppm
Concentration per Run 1	0.1065 ppm	-0.0001 ppm	107.6641 ppm	0.0013 ppm	-0.0013 ppm	-0.0006 ppm	-0.0010 ppm
Concentration per Run 2	0.0997 ppm	0.0001 ppm	102.7464 ppm	0.0012 ppm	-0.0015 ppm	0.0005 ppm	0.0002 ppm
Concentration per Run 3	0.0988 ppm	0.0001 ppm	101.8236 ppm	0.0011 ppm	-0.0011 ppm	0.0011 ppm	-0.0013 ppm
Concentration RSD	4.1 %	396.2 %	3.0 %	9.1 %	13.0 %	245.2 %	117.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.2077 ppm	0.0008 ppm	0.2416 ppm	0.0004 ppm	0.0007 ppm	-0.0001 ppm	0.0194 ppm
Concentration per Run 1	7.2237 ppm	0.0006 ppm	0.2500 ppm	0.0003 ppm	0.0001 ppm	-0.0001 ppm	0.0194 ppm
Concentration per Run 2	7.1770 ppm	0.0009 ppm	0.2380 ppm	0.0006 ppm	0.0018 ppm	-0.0001 ppm	0.0194 ppm
Concentration per Run 3	7.2224 ppm	0.0009 ppm	0.2368 ppm	0.0003 ppm	0.0003 ppm	-0.0001 ppm	0.0193 ppm
Concentration RSD	0.4 %	24.1 %	3.0 %	40.6 %	120.2 %	18.4 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	92.7738 %	102.5472 %	102.5550 %	91.5872 %	91.0481 %	100.0529 %	0.0101 ppm
Concentration per Run 1	89.2238 %	102.4400 %	102.4455 %	83.0418 %	90.4811 %	99.5143 %	0.0115 ppm
Concentration per Run 2	93.9304 %	102.5114 %	102.9254 %	93.1475 %	91.4204 %	100.0711 %	0.0086 ppm
Concentration per Run 3	95.1674 %	102.6901 %	102.2941 %	98.5723 %	91.2428 %	100.5732 %	0.0101 ppm
Concentration RSD	3.4 %	0.1 %	0.3 %	8.6 %	0.5 %	0.5 %	14.4 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010915-7 WG2010915
Analysis started at: 12/19/2024 10:49:07 PM
Rack: 1
Vial: 59

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0521 ppm	2.2499 ppm	0.1277 ppm	1.1126 ppm	2.1353 ppm	0.0520 ppm	53.6897 ppm
Concentration per Run 1	0.0523 ppm	2.3536 ppm	0.1276 ppm	1.1134 ppm	2.2310 ppm	0.0544 ppm	56.4039 ppm
Concentration per Run 2	0.0521 ppm	2.1954 ppm	0.1273 ppm	1.1088 ppm	2.0882 ppm	0.0508 ppm	52.3386 ppm
Concentration per Run 3	0.0519 ppm	2.2009 ppm	0.1283 ppm	1.1155 ppm	2.0867 ppm	0.0507 ppm	52.3267 ppm
Concentration RSD	0.4 %	4.0 %	0.4 %	0.3 %	3.9 %	4.0 %	4.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0552 ppm	0.5375 ppm	0.1927 ppm	0.2598 ppm	1.0789 ppm	18.7042 ppm	15.2679 ppm
Concentration per Run 1	0.0553 ppm	0.5388 ppm	0.1937 ppm	0.2601 ppm	1.1787 ppm	19.5352 ppm	15.2889 ppm
Concentration per Run 2	0.0548 ppm	0.5349 ppm	0.1926 ppm	0.2597 ppm	1.0510 ppm	18.2969 ppm	15.2806 ppm
Concentration per Run 3	0.0553 ppm	0.5387 ppm	0.1918 ppm	0.2597 ppm	1.0069 ppm	18.2805 ppm	15.2342 ppm
Concentration RSD	0.5 %	0.4 %	0.5 %	0.1 %	8.3 %	3.8 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5974 ppm	0.9940 ppm	115.3682 ppm	0.5039 ppm	0.5631 ppm	0.5418 ppm	0.1335 ppm
Concentration per Run 1	0.6275 ppm	0.9862 ppm	120.5907 ppm	0.5046 ppm	0.5632 ppm	0.5402 ppm	0.1333 ppm
Concentration per Run 2	0.5826 ppm	0.9918 ppm	112.8462 ppm	0.5015 ppm	0.5620 ppm	0.5398 ppm	0.1350 ppm
Concentration per Run 3	0.5821 ppm	1.0039 ppm	112.6676 ppm	0.5055 ppm	0.5640 ppm	0.5453 ppm	0.1321 ppm
Concentration RSD	4.4 %	0.9 %	3.9 %	0.4 %	0.2 %	0.6 %	1.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	8.0882 ppm	0.9620 ppm	1.2373 ppm	1.0203 ppm	0.1229 ppm	0.4808 ppm	0.5572 ppm
Concentration per Run 1	8.0628 ppm	0.9652 ppm	1.2942 ppm	1.0234 ppm	0.1216 ppm	0.4803 ppm	0.5592 ppm
Concentration per Run 2	8.1037 ppm	0.9574 ppm	1.2101 ppm	1.0211 ppm	0.1229 ppm	0.4814 ppm	0.5539 ppm
Concentration per Run 3	8.0982 ppm	0.9633 ppm	1.2077 ppm	1.0165 ppm	0.1243 ppm	0.4809 ppm	0.5586 ppm
Concentration RSD	0.3 %	0.4 %	4.0 %	0.3 %	1.1 %	0.1 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	92.0714 %	101.9803 %	103.3691 %	94.8995 %	90.7364 %	100.9418 %	0.0096 ppm
Concentration per Run 1	88.2307 %	102.2389 %	104.1669 %	86.6777 %	91.1107 %	100.8712 %	0.0103 ppm
Concentration per Run 2	94.1327 %	101.6721 %	103.1036 %	96.9451 %	90.9807 %	100.7012 %	0.0095 ppm
Concentration per Run 3	93.8509 %	102.0300 %	102.8368 %	101.0758 %	90.1179 %	101.2530 %	0.0089 ppm
Concentration RSD	3.6 %	0.3 %	0.7 %	7.8 %	0.6 %	0.3 %	7.4 %

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010915-8 WG2010915
Analysis started at: 12/19/2024 10:55:32 PM
Rack: 1
Vial: 60

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0280 ppm	0.0016 ppm	0.0789 ppm	0.0371 ppm	0.0000 ppm	42.2514 ppm
Concentration per Run 1	0.0000 ppm	0.0309 ppm	0.0026 ppm	0.0792 ppm	0.0385 ppm	0.0000 ppm	43.9765 ppm
Concentration per Run 2	0.0000 ppm	0.0283 ppm	0.0010 ppm	0.0787 ppm	0.0366 ppm	0.0000 ppm	41.4538 ppm
Concentration per Run 3	0.0000 ppm	0.0249 ppm	0.0011 ppm	0.0788 ppm	0.0362 ppm	0.0000 ppm	41.3239 ppm
Concentration RSD	251.8 %	10.7 %	55.0 %	0.4 %	3.4 %	1,906.9 %	3.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0017 ppm	0.0145 ppm	7.8506 ppm	5.4547 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0016 ppm	0.0166 ppm	8.1587 ppm	5.4780 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0018 ppm	0.0136 ppm	7.7200 ppm	5.4602 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0016 ppm	0.0132 ppm	7.6731 ppm	5.4260 ppm
Concentration RSD	134.6 %	41.3 %	75.3 %	6.6 %	12.6 %	3.4 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0990 ppm	0.0023 ppm	102.2404 ppm	0.0012 ppm	-0.0009 ppm	0.0017 ppm	-0.0003 ppm
Concentration per Run 1	0.1026 ppm	0.0028 ppm	105.8576 ppm	0.0012 ppm	-0.0005 ppm	0.0021 ppm	-0.0003 ppm
Concentration per Run 2	0.0973 ppm	0.0024 ppm	100.9344 ppm	0.0013 ppm	-0.0004 ppm	0.0025 ppm	-0.0012 ppm
Concentration per Run 3	0.0970 ppm	0.0018 ppm	99.9292 ppm	0.0011 ppm	-0.0018 ppm	0.0006 ppm	0.0005 ppm
Concentration RSD	3.2 %	20.6 %	3.1 %	8.7 %	89.5 %	58.5 %	275.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.0796 ppm	0.0013 ppm	0.2383 ppm	0.0007 ppm	0.0003 ppm	-0.0001 ppm	0.0190 ppm
Concentration per Run 1	7.0772 ppm	0.0021 ppm	0.2469 ppm	0.0004 ppm	0.0015 ppm	-0.0002 ppm	0.0191 ppm
Concentration per Run 2	7.0519 ppm	0.0012 ppm	0.2348 ppm	0.0008 ppm	-0.0016 ppm	-0.0002 ppm	0.0190 ppm
Concentration per Run 3	7.1097 ppm	0.0005 ppm	0.2331 ppm	0.0009 ppm	0.0010 ppm	0.0000 ppm	0.0189 ppm
Concentration RSD	0.4 %	64.8 %	3.2 %	38.1 %	558.0 %	80.3 %	0.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	93.3958 %	102.5972 %	102.6097 %	92.3976 %	91.4990 %	100.3299 %	0.0101 ppm
Concentration per Run 1	89.9078 %	102.3607 %	102.7906 %	84.2243 %	91.2273 %	99.7324 %	0.0109 ppm
Concentration per Run 2	95.3451 %	102.6333 %	102.9976 %	94.6518 %	91.6683 %	100.4099 %	0.0099 ppm
Concentration per Run 3	94.9346 %	102.7975 %	102.0410 %	98.3166 %	91.6015 %	100.8475 %	0.0096 ppm
Concentration RSD	3.2 %	0.2 %	0.5 %	7.9 %	0.3 %	0.6 %	6.8 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010915-9 WG2010915
Analysis started at: 12/19/2024 11:02:14 PM
Rack: 2
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0525 ppm	2.3593 ppm	0.1328 ppm	1.1927 ppm	2.3017 ppm	0.0563 ppm	53.1043 ppm
Concentration per Run 1	0.0525 ppm	2.4482 ppm	0.1320 ppm	1.1777 ppm	2.3845 ppm	0.0584 ppm	55.1810 ppm
Concentration per Run 2	0.0527 ppm	2.3195 ppm	0.1345 ppm	1.2101 ppm	2.2704 ppm	0.0554 ppm	51.9435 ppm
Concentration per Run 3	0.0523 ppm	2.3103 ppm	0.1318 ppm	1.1903 ppm	2.2503 ppm	0.0552 ppm	52.1884 ppm
Concentration RSD	0.4 %	3.3 %	1.1 %	1.4 %	3.1 %	3.2 %	3.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0560 ppm	0.5582 ppm	0.1987 ppm	0.2718 ppm	1.1918 ppm	19.7893 ppm	15.7952 ppm
Concentration per Run 1	0.0551 ppm	0.5497 ppm	0.1996 ppm	0.2740 ppm	1.2934 ppm	20.4827 ppm	15.8550 ppm
Concentration per Run 2	0.0569 ppm	0.5669 ppm	0.1981 ppm	0.2715 ppm	1.1669 ppm	19.4755 ppm	15.7675 ppm
Concentration per Run 3	0.0560 ppm	0.5579 ppm	0.1983 ppm	0.2698 ppm	1.1150 ppm	19.4095 ppm	15.7630 ppm
Concentration RSD	1.6 %	1.5 %	0.4 %	0.8 %	7.7 %	3.0 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.6398 ppm	1.0710 ppm	112.8541 ppm	0.5413 ppm	0.5896 ppm	0.5635 ppm	0.1421 ppm
Concentration per Run 1	0.6654 ppm	1.0471 ppm	116.8722 ppm	0.5331 ppm	0.5799 ppm	0.5522 ppm	0.1384 ppm
Concentration per Run 2	0.6274 ppm	1.0886 ppm	111.2732 ppm	0.5491 ppm	0.5981 ppm	0.5718 ppm	0.1421 ppm
Concentration per Run 3	0.6266 ppm	1.0773 ppm	110.4170 ppm	0.5415 ppm	0.5908 ppm	0.5664 ppm	0.1458 ppm
Concentration RSD	3.5 %	2.0 %	3.1 %	1.5 %	1.5 %	1.8 %	2.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	8.2814 ppm	1.0445 ppm	1.3569 ppm	1.0837 ppm	0.1297 ppm	0.5001 ppm	0.5876 ppm
Concentration per Run 1	8.2499 ppm	1.0270 ppm	1.4059 ppm	1.0911 ppm	0.1300 ppm	0.5010 ppm	0.5783 ppm
Concentration per Run 2	8.3470 ppm	1.0610 ppm	1.3381 ppm	1.0818 ppm	0.1304 ppm	0.5005 ppm	0.5970 ppm
Concentration per Run 3	8.2473 ppm	1.0456 ppm	1.3267 ppm	1.0782 ppm	0.1288 ppm	0.4987 ppm	0.5875 ppm
Concentration RSD	0.7 %	1.6 %	3.2 %	0.6 %	0.7 %	0.2 %	1.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	93.1987 %	101.8130 %	101.8853 %	95.8888 %	89.4825 %	101.6553 %	0.0099 ppm
Concentration per Run 1	90.0969 %	101.8825 %	102.2892 %	87.8706 %	90.4953 %	101.3914 %	0.0106 ppm
Concentration per Run 2	94.9588 %	101.6595 %	101.3018 %	97.9706 %	88.3119 %	101.6312 %	0.0099 ppm
Concentration per Run 3	94.5403 %	101.8971 %	102.0649 %	101.8254 %	89.6403 %	101.9433 %	0.0094 ppm
Concentration RSD	2.9 %	0.1 %	0.5 %	7.5 %	1.2 %	0.3 %	5.9 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: WG2010915-10d5 WG2010915
Analysis started at: 12/19/2024 11:08:38 PM
Rack: 2
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0056 ppm	0.0021 ppm	0.0174 ppm	0.0076 ppm	0.0000 ppm	8.6459 ppm
Concentration per Run 1	0.0001 ppm	0.0079 ppm	0.0025 ppm	0.0178 ppm	0.0079 ppm	0.0000 ppm	8.9482 ppm
Concentration per Run 2	0.0000 ppm	0.0050 ppm	0.0010 ppm	0.0173 ppm	0.0076 ppm	0.0000 ppm	8.4672 ppm
Concentration per Run 3	0.0002 ppm	0.0038 ppm	0.0027 ppm	0.0171 ppm	0.0073 ppm	0.0000 ppm	8.5222 ppm
Concentration RSD	70.2 %	37.7 %	44.9 %	2.0 %	4.2 %	764.8 %	3.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0006 ppm	0.0035 ppm	1.5731 ppm	1.1230 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	-0.0003 ppm	0.0006 ppm	0.0040 ppm	1.6068 ppm	1.1128 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0038 ppm	1.5502 ppm	0.0000 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0006 ppm	0.0025 ppm	1.5622 ppm	1.1332 ppm
Concentration RSD	19.4 %	66.0 %	66.7 %	5.6 %	23.5 %	1.9 %	1.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0200 ppm	0.0025 ppm	20.2696 ppm	0.0002 ppm	-0.0001 ppm	0.0032 ppm	-0.0013 ppm
Concentration per Run 1	0.0214 ppm	0.0029 ppm	20.9145 ppm	0.0002 ppm	-0.0001 ppm	0.0026 ppm	-0.0006 ppm
Concentration per Run 2	0.0194 ppm	0.0026 ppm	20.0111 ppm	0.0002 ppm	0.0003 ppm	0.0037 ppm	-0.0015 ppm
Concentration per Run 3	0.0191 ppm	0.0020 ppm	19.8834 ppm	0.0003 ppm	-0.0004 ppm	0.0034 ppm	-0.0017 ppm
Concentration RSD	6.3 %	18.2 %	2.8 %	24.4 %	648.1 %	17.1 %	44.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.4229 ppm	0.0025 ppm	0.0486 ppm	0.0003 ppm	0.0013 ppm	0.0000 ppm	0.0032 ppm
Concentration per Run 1	1.4218 ppm	0.0029 ppm	0.0501 ppm	0.0004 ppm	0.0012 ppm	0.0000 ppm	0.0032 ppm
Concentration per Run 2	1.4238 ppm	0.0026 ppm	0.0479 ppm	0.0000 ppm	0.0005 ppm	-0.0001 ppm	0.0032 ppm
Concentration per Run 3	1.4232 ppm	0.0020 ppm	0.0478 ppm	0.0003 ppm	0.0024 ppm	0.0001 ppm	0.0031 ppm
Concentration RSD	0.1 %	17.4 %	2.7 %	7.5 %	73.1 %	301.2 %	0.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	94.0637 %	105.7721 %	106.4785 %	97.8477 %	98.5188 %	103.4643 %	0.0021 ppm
Concentration per Run 1	91.3918 %	104.7988 %	106.3418 %	90.4633 %	98.0145 %	104.4740 %	0.0029 ppm
Concentration per Run 2	95.7700 %	109.0179 %	106.7797 %	100.2188 %	99.2153 %	0.0000 %	0.0010 ppm
Concentration per Run 3	95.0294 %	103.4997 %	106.3141 %	102.8610 %	98.3266 %	102.4546 %	0.0024 ppm
Concentration RSD	2.5 %	2.7 %	0.2 %	6.7 %	0.6 %	1.4 %	47.8 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: CCV
Analysis started at: 12/19/2024 11:15:18 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4615 ppm	0.5006 ppm	0.4645 ppm	0.4958 ppm	0.4891 ppm	0.4882 ppm	0.5072 ppm
Concentration per Run 1	0.4695 ppm	0.5135 ppm	0.4658 ppm	0.4995 ppm	0.5016 ppm	0.5005 ppm	0.5161 ppm
Concentration per Run 2	0.4683 ppm	0.4944 ppm	0.4631 ppm	0.4925 ppm	0.4838 ppm	0.4828 ppm	0.4965 ppm
Concentration per Run 3	0.4467 ppm	0.4939 ppm	0.4645 ppm	0.4953 ppm	0.4819 ppm	0.4814 ppm	0.5090 ppm
Recovery Percentage 1	92.296 %	100.122 %	92.901 %	99.153 %	97.822 %	97.643 %	101.444 %
Concentration RSD	2.8 %	2.2 %	0.3 %	0.7 %	2.2 %	2.2 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4804 ppm	0.5140 ppm	0.4562 ppm	0.4573 ppm	0.4697 ppm	5.1421 ppm	0.4800 ppm
Concentration per Run 1	0.4824 ppm	0.5168 ppm	0.4663 ppm	0.4634 ppm	0.4878 ppm	5.2445 ppm	0.4894 ppm
Concentration per Run 2	0.4808 ppm	0.5124 ppm	0.4599 ppm	0.4671 ppm	0.4655 ppm	5.1017 ppm	0.4835 ppm
Concentration per Run 3	0.4780 ppm	0.5129 ppm	0.4423 ppm	0.4415 ppm	0.4558 ppm	5.0801 ppm	0.4671 ppm
Recovery Percentage 1	96.082 %	102.807 %	91.239 %	91.466 %	93.939 %	102.842 %	96.003 %
Concentration RSD	0.5 %	0.5 %	2.7 %	3.0 %	3.5 %	1.7 %	2.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4690 ppm	0.4910 ppm	10.4788 ppm	0.4955 ppm	0.5073 ppm	0.5150 ppm	0.5018 ppm
Concentration per Run 1	0.4792 ppm	0.4926 ppm	10.7330 ppm	0.4986 ppm	0.5102 ppm	0.5197 ppm	0.5091 ppm
Concentration per Run 2	0.4637 ppm	0.4887 ppm	10.3604 ppm	0.4930 ppm	0.5063 ppm	0.5107 ppm	0.4974 ppm
Concentration per Run 3	0.4641 ppm	0.4917 ppm	10.3430 ppm	0.4948 ppm	0.5054 ppm	0.5146 ppm	0.4988 ppm
Recovery Percentage 1	93.800 %	98.196 %	104.788 %	99.101 %	101.458 %	103.000 %	100.354 %
Concentration RSD	1.9 %	0.4 %	2.1 %	0.6 %	0.5 %	0.9 %	1.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.5943 ppm	0.4873 ppm	0.5047 ppm	0.4865 ppm	0.4964 ppm	0.4616 ppm	0.5110 ppm
Concentration per Run 1	5.5986 ppm	0.4922 ppm	0.5172 ppm	0.4952 ppm	0.4987 ppm	0.4714 ppm	0.5130 ppm
Concentration per Run 2	5.5748 ppm	0.4872 ppm	0.4996 ppm	0.4932 ppm	0.4942 ppm	0.4667 ppm	0.5119 ppm
Concentration per Run 3	5.6094 ppm	0.4825 ppm	0.4973 ppm	0.4712 ppm	0.4962 ppm	0.4468 ppm	0.5082 ppm
Recovery Percentage 1	106.558 %	97.459 %	100.939 %	97.306 %	99.271 %	92.327 %	102.207 %
Concentration RSD	0.3 %	1.0 %	2.2 %	2.7 %	0.5 %	2.8 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	93.5659 %	105.1078 %	107.2162 %	105.6196 %	98.2106 %	107.2450 %	0.5057 ppm
Concentration per Run 1	91.4156 %	104.8070 %	107.1905 %	101.2612 %	97.6202 %	105.6216 %	0.5270 ppm
Concentration per Run 2	94.9443 %	104.5885 %	107.7034 %	107.4948 %	98.9070 %	105.3870 %	0.5000 ppm
Concentration per Run 3	94.3377 %	105.9279 %	106.7546 %	108.1027 %	98.1045 %	110.7263 %	0.4901 ppm
Recovery Percentage 1							101.140 %
Concentration RSD	2.0 %	0.7 %	0.4 %	3.6 %	0.7 %	2.8 %	3.8 %

LabBook: WG2011242_12192024T6.imexp

Sample: CCB
Analysis started at: 12/19/2024 11:21:44 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0019 ppm	0.0007 ppm	0.0023 ppm	0.0000 ppm	0.0000 ppm	0.0226 ppm
Concentration per Run 1	0.0004 ppm	-0.0009 ppm	0.0019 ppm	0.0023 ppm	0.0000 ppm	0.0000 ppm	0.0228 ppm
Concentration per Run 2	0.0000 ppm	-0.0016 ppm	0.0004 ppm	0.0022 ppm	0.0000 ppm	0.0000 ppm	0.0290 ppm
Concentration per Run 3	0.0000 ppm	-0.0034 ppm	-0.0003 ppm	0.0024 ppm	0.0001 ppm	0.0000 ppm	0.0161 ppm
Recovery Percentage 1	1.909 %	-1.942 %	13.123 %	7.596 %	-0.033 %	-0.027 %	22.621 %
Concentration RSD	169.5 %	66.1 %	168.3 %	4.2 %	2,233.8 %	1,262.2 %	28.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0241 ppm	0.0003 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0002 ppm	-0.0013 ppm	0.0412 ppm	0.0002 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0007 ppm	0.0122 ppm	0.0018 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	-0.0003 ppm	0.0187 ppm	-0.0010 ppm
Recovery Percentage 1	0.637 %	-0.226 %	-0.412 %	-0.790 %	-0.622 %	0.962 %	0.333 %
Concentration RSD	41.7 %	173.3 %	433.8 %	151.9 %	329.9 %	63.3 %	414.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0009 ppm	0.0099 ppm	0.0000 ppm	0.0002 ppm	0.0020 ppm	0.0014 ppm
Concentration per Run 1	0.0000 ppm	0.0010 ppm	0.0113 ppm	-0.0001 ppm	0.0002 ppm	0.0033 ppm	0.0002 ppm
Concentration per Run 2	0.0001 ppm	0.0011 ppm	0.0095 ppm	0.0001 ppm	0.0005 ppm	0.0013 ppm	0.0023 ppm
Concentration per Run 3	0.0000 ppm	0.0006 ppm	0.0088 ppm	0.0001 ppm	0.0000 ppm	0.0014 ppm	0.0015 ppm
Recovery Percentage 1	0.463 %	1.834 %	0.493 %	0.094 %	2.349 %	4.018 %	13.548 %
Concentration RSD	188.4 %	29.4 %	12.8 %	297.7 %	98.5 %	56.5 %	76.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0022 ppm	0.0010 ppm	0.0001 ppm	0.0001 ppm	0.0007 ppm	-0.0002 ppm	0.0002 ppm
Concentration per Run 1	0.0021 ppm	0.0014 ppm	0.0001 ppm	0.0000 ppm	0.0005 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 2	0.0023 ppm	0.0008 ppm	0.0001 ppm	0.0002 ppm	0.0016 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 3	0.0023 ppm	0.0008 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0003 ppm	0.0001 ppm
Recovery Percentage 1	0.448 %	1.988 %	0.504 %	1.166 %	3.361 %	-2.432 %	3.844 %
Concentration RSD	5.4 %	32.9 %	151.2 %	56.1 %	121.9 %	73.9 %	64.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	94.1924 %	105.9760 %	108.2167 %	102.6300 %	100.1693 %	105.7530 %	0.0003 ppm
Concentration per Run 1	93.0693 %	105.8839 %	108.4103 %	97.8843 %	100.0984 %	105.6272 %	0.0002 ppm
Concentration per Run 2	94.3748 %	106.2716 %	108.3370 %	103.7472 %	100.8011 %	105.9529 %	0.0000 ppm
Concentration per Run 3	95.1332 %	105.7725 %	107.9028 %	106.2586 %	99.6082 %	105.6790 %	0.0006 ppm
Recovery Percentage 1							2.556 %
Concentration RSD	1.1 %	0.2 %	0.3 %	4.2 %	0.6 %	0.2 %	126.0 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: L2474329-02 WG2010915
Analysis started at: 12/19/2024 11:28:31 PM
Rack: 2
Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0163 ppm	0.0006 ppm	0.0071 ppm	0.0155 ppm	0.0000 ppm	12.1681 ppm
Concentration per Run 1	0.0002 ppm	0.0204 ppm	0.0014 ppm	0.0071 ppm	0.0160 ppm	0.0000 ppm	12.8076 ppm
Concentration per Run 2	0.0001 ppm	0.0096 ppm	-0.0011 ppm	0.0069 ppm	0.0152 ppm	0.0000 ppm	11.7871 ppm
Concentration per Run 3	-0.0001 ppm	0.0191 ppm	0.0015 ppm	0.0072 ppm	0.0153 ppm	0.0000 ppm	11.9097 ppm
Concentration RSD	165.0 %	36.1 %	249.5 %	1.7 %	2.9 %	236.0 %	4.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0003 ppm	0.0034 ppm	0.0008 ppm	0.0204 ppm	0.9930 ppm	5.7506 ppm
Concentration per Run 1	0.0001 ppm	-0.0004 ppm	0.0036 ppm	0.0008 ppm	0.0212 ppm	1.0243 ppm	5.7793 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	0.0035 ppm	0.0007 ppm	0.0203 ppm	0.9749 ppm	5.7278 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0032 ppm	0.0007 ppm	0.0198 ppm	0.9797 ppm	5.7446 ppm
Concentration RSD	55.0 %	29.3 %	6.3 %	8.4 %	3.3 %	2.7 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0004 ppm	9.1215 ppm	0.0007 ppm	-0.0022 ppm	0.0004 ppm	0.0007 ppm
Concentration per Run 1	0.0005 ppm	0.0004 ppm	9.4652 ppm	0.0009 ppm	-0.0022 ppm	-0.0001 ppm	-0.0022 ppm
Concentration per Run 2	0.0001 ppm	0.0005 ppm	8.9748 ppm	0.0005 ppm	-0.0020 ppm	-0.0005 ppm	0.0025 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	8.9244 ppm	0.0007 ppm	-0.0023 ppm	0.0017 ppm	0.0017 ppm
Concentration RSD	121.0 %	11.7 %	3.3 %	26.5 %	7.0 %	307.8 %	386.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.0805 ppm	0.0001 ppm	0.0504 ppm	0.0007 ppm	0.0010 ppm	0.0001 ppm	0.0004 ppm
Concentration per Run 1	10.0862 ppm	0.0005 ppm	0.0524 ppm	0.0009 ppm	0.0020 ppm	0.0003 ppm	0.0004 ppm
Concentration per Run 2	10.0805 ppm	-0.0002 ppm	0.0495 ppm	0.0008 ppm	-0.0003 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 3	10.0747 ppm	-0.0001 ppm	0.0494 ppm	0.0005 ppm	0.0014 ppm	0.0001 ppm	0.0003 ppm
Concentration RSD	0.1 %	525.2 %	3.4 %	27.7 %	114.4 %	140.0 %	16.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	93.5414 %	105.7786 %	107.2181 %	92.4877 %	98.9436 %	103.4209 %	0.0045 ppm
Concentration per Run 1	89.9515 %	106.0656 %	107.2507 %	83.9835 %	98.3031 %	103.1879 %	0.0052 ppm
Concentration per Run 2	95.4681 %	106.0803 %	107.1546 %	94.8597 %	99.0470 %	103.6563 %	0.0039 ppm
Concentration per Run 3	95.2046 %	105.1899 %	107.2490 %	98.6199 %	99.4808 %	103.4186 %	0.0042 ppm
Concentration RSD	3.3 %	0.5 %	0.1 %	8.2 %	0.6 %	0.2 %	14.9 %

LabBook: WG2011242_12192024T6.imexp

Sample: L2474329-03 WG2010915
Analysis started at: 12/19/2024 11:35:11 PM
Rack: 2
Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0557 ppm	0.0015 ppm	0.0183 ppm	0.0732 ppm	0.0000 ppm	8.4468 ppm
Concentration per Run 1	0.0000 ppm	0.0631 ppm	0.0020 ppm	0.0189 ppm	0.0761 ppm	0.0000 ppm	8.7664 ppm
Concentration per Run 2	0.0003 ppm	0.0555 ppm	0.0011 ppm	0.0181 ppm	0.0720 ppm	-0.0001 ppm	8.2840 ppm
Concentration per Run 3	0.0001 ppm	0.0484 ppm	0.0014 ppm	0.0180 ppm	0.0715 ppm	0.0000 ppm	8.2899 ppm
Concentration RSD	133.4 %	13.2 %	29.3 %	2.6 %	3.5 %	134.6 %	3.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0002 ppm	0.0115 ppm	0.0013 ppm	0.1880 ppm	1.4027 ppm	2.7513 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0114 ppm	0.0015 ppm	0.2021 ppm	1.4655 ppm	2.7689 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	0.0113 ppm	0.0014 ppm	0.1864 ppm	1.3526 ppm	2.7538 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	0.0119 ppm	0.0012 ppm	0.1757 ppm	1.3899 ppm	2.7312 ppm
Concentration RSD	20.6 %	69.7 %	2.8 %	8.2 %	7.1 %	4.1 %	0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0356 ppm	0.0004 ppm	70.0317 ppm	0.0105 ppm	-0.0011 ppm	0.0000 ppm	0.0019 ppm
Concentration per Run 1	0.0372 ppm	0.0006 ppm	72.7880 ppm	0.0106 ppm	-0.0014 ppm	0.0001 ppm	0.0019 ppm
Concentration per Run 2	0.0348 ppm	0.0005 ppm	68.7346 ppm	0.0105 ppm	-0.0014 ppm	-0.0003 ppm	0.0013 ppm
Concentration per Run 3	0.0350 ppm	0.0002 ppm	68.5725 ppm	0.0105 ppm	-0.0005 ppm	0.0002 ppm	0.0023 ppm
Concentration RSD	3.7 %	43.1 %	3.4 %	0.5 %	44.3 %	929.1 %	27.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.6774 ppm	0.0003 ppm	0.0438 ppm	0.0021 ppm	0.0009 ppm	0.0001 ppm	0.0099 ppm
Concentration per Run 1	5.7939 ppm	0.0002 ppm	0.0455 ppm	0.0021 ppm	0.0012 ppm	-0.0001 ppm	0.0102 ppm
Concentration per Run 2	5.6033 ppm	0.0006 ppm	0.0431 ppm	0.0019 ppm	0.0005 ppm	0.0002 ppm	0.0098 ppm
Concentration per Run 3	5.6349 ppm	0.0000 ppm	0.0427 ppm	0.0022 ppm	0.0010 ppm	0.0002 ppm	0.0097 ppm
Concentration RSD	1.8 %	111.1 %	3.4 %	6.8 %	38.3 %	206.8 %	2.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	94.3703 %	103.8864 %	103.9181 %	92.9530 %	93.9971 %	100.4300 %	0.0007 ppm
Concentration per Run 1	91.3672 %	103.3251 %	102.3808 %	85.3634 %	92.5224 %	99.1764 %	0.0002 ppm
Concentration per Run 2	95.8499 %	104.6424 %	104.9285 %	94.8639 %	94.2361 %	101.2326 %	0.0008 ppm
Concentration per Run 3	95.8938 %	103.6918 %	104.4449 %	98.6317 %	95.2329 %	100.8808 %	0.0009 ppm
Concentration RSD	2.8 %	0.7 %	1.3 %	7.4 %	1.5 %	1.1 %	56.1 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: L2474329-04 WG2010915
Analysis started at: 12/19/2024 11:41:52 PM
Rack: 2
Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0521 ppm	0.0000 ppm	0.0144 ppm	0.0368 ppm	0.0000 ppm	13.5471 ppm
Concentration per Run 1	-0.0002 ppm	0.0550 ppm	0.0002 ppm	0.0144 ppm	0.0379 ppm	0.0000 ppm	13.9854 ppm
Concentration per Run 2	0.0001 ppm	0.0515 ppm	0.0005 ppm	0.0142 ppm	0.0361 ppm	-0.0001 ppm	13.2762 ppm
Concentration per Run 3	0.0002 ppm	0.0498 ppm	-0.0006 ppm	0.0147 ppm	0.0363 ppm	0.0000 ppm	13.3797 ppm
Concentration RSD	390.5 %	5.1 %	4,602.5 %	1.6 %	2.7 %	1,004.9 %	2.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0044 ppm	0.0005 ppm	0.0474 ppm	1.1066 ppm	5.4382 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0045 ppm	0.0005 ppm	0.0511 ppm	1.1452 ppm	5.4904 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0045 ppm	0.0004 ppm	0.0476 ppm	1.0898 ppm	5.4188 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0043 ppm	0.0006 ppm	0.0436 ppm	1.0847 ppm	5.4055 ppm
Concentration RSD	19.9 %	33.9 %	3.2 %	15.6 %	7.9 %	3.0 %	0.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0009 ppm	0.0000 ppm	14.5302 ppm	0.0044 ppm	-0.0022 ppm	0.0006 ppm	0.0004 ppm
Concentration per Run 1	0.0012 ppm	0.0000 ppm	14.9747 ppm	0.0043 ppm	-0.0021 ppm	0.0009 ppm	0.0032 ppm
Concentration per Run 2	0.0008 ppm	0.0000 ppm	14.2632 ppm	0.0044 ppm	-0.0026 ppm	0.0009 ppm	-0.0014 ppm
Concentration per Run 3	0.0008 ppm	0.0001 ppm	14.3528 ppm	0.0044 ppm	-0.0020 ppm	0.0002 ppm	-0.0005 ppm
Concentration RSD	26.7 %	348.3 %	2.7 %	1.6 %	14.3 %	58.2 %	560.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.0808 ppm	0.0000 ppm	0.0792 ppm	0.0021 ppm	0.0011 ppm	0.0005 ppm	0.0100 ppm
Concentration per Run 1	10.0436 ppm	-0.0002 ppm	0.0816 ppm	0.0023 ppm	0.0018 ppm	0.0005 ppm	0.0099 ppm
Concentration per Run 2	9.9944 ppm	0.0009 ppm	0.0779 ppm	0.0018 ppm	0.0011 ppm	0.0005 ppm	0.0100 ppm
Concentration per Run 3	10.2043 ppm	-0.0006 ppm	0.0782 ppm	0.0021 ppm	0.0005 ppm	0.0004 ppm	0.0100 ppm
Concentration RSD	1.1 %	3,611.4 %	2.6 %	12.0 %	58.0 %	13.9 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	94.3741 %	105.7640 %	106.6554 %	92.4052 %	97.3764 %	103.2174 %	0.0032 ppm
Concentration per Run 1	91.3491 %	105.8453 %	107.0269 %	84.1259 %	97.0288 %	102.8008 %	0.0028 ppm
Concentration per Run 2	96.0546 %	105.8777 %	107.5690 %	94.5354 %	98.5100 %	103.4232 %	0.0036 ppm
Concentration per Run 3	95.7186 %	105.5691 %	105.3703 %	98.5542 %	96.5905 %	103.4284 %	0.0031 ppm
Concentration RSD	2.8 %	0.2 %	1.1 %	8.1 %	1.0 %	0.3 %	13.8 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: L2474329-05 WG2010915
Analysis started at: 12/19/2024 11:48:32 PM
Rack: 2
Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0012 ppm	0.0008 ppm	0.0011 ppm	0.0002 ppm	0.0000 ppm	0.0156 ppm
Concentration per Run 1	-0.0001 ppm	0.0050 ppm	0.0007 ppm	0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0101 ppm
Concentration per Run 2	0.0002 ppm	-0.0008 ppm	0.0017 ppm	0.0007 ppm	0.0003 ppm	0.0000 ppm	0.0151 ppm
Concentration per Run 3	0.0000 ppm	-0.0006 ppm	0.0001 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	0.0217 ppm
Concentration RSD	275.9 %	273.7 %	90.7 %	28.3 %	64.7 %	510.9 %	37.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0006 ppm	0.0021 ppm	-0.0197 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0007 ppm	0.0032 ppm	-0.0122 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0006 ppm	0.0008 ppm	-0.0207 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0002 ppm	0.0005 ppm	0.0025 ppm	-0.0260 ppm	-0.0008 ppm
Concentration RSD	23.4 %	178.7 %	71.0 %	11.8 %	58.6 %	35.5 %	598.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0002 ppm	0.0001 ppm	0.0101 ppm	0.0003 ppm	0.0007 ppm	-0.0001 ppm	-0.0013 ppm
Concentration per Run 1	-0.0004 ppm	0.0001 ppm	0.0108 ppm	0.0002 ppm	0.0006 ppm	-0.0004 ppm	-0.0018 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0159 ppm	0.0004 ppm	0.0007 ppm	0.0009 ppm	-0.0023 ppm
Concentration per Run 3	-0.0003 ppm	0.0001 ppm	0.0037 ppm	0.0003 ppm	0.0007 ppm	-0.0009 ppm	0.0001 ppm
Concentration RSD	76.6 %	44.6 %	60.6 %	27.7 %	11.4 %	773.7 %	93.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0084 ppm	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0010 ppm	-0.0002 ppm	-0.0004 ppm
Concentration per Run 1	0.0082 ppm	0.0001 ppm	0.0002 ppm	-0.0002 ppm	0.0009 ppm	-0.0002 ppm	-0.0004 ppm
Concentration per Run 2	0.0079 ppm	-0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0008 ppm	-0.0001 ppm	-0.0004 ppm
Concentration per Run 3	0.0091 ppm	-0.0002 ppm	0.0002 ppm	-0.0002 ppm	0.0014 ppm	-0.0002 ppm	-0.0003 ppm
Concentration RSD	7.3 %	536.4 %	32.1 %	229.2 %	34.2 %	32.0 %	16.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	94.6631 %	106.5412 %	108.6161 %	92.9940 %	101.6384 %	103.6673 %	-0.0001 ppm
Concentration per Run 1	92.9731 %	106.7148 %	109.0664 %	86.2869 %	101.1985 %	103.4358 %	0.0010 ppm
Concentration per Run 2	95.3604 %	106.2207 %	108.3039 %	94.6401 %	101.4562 %	103.2801 %	-0.0001 ppm
Concentration per Run 3	95.6558 %	106.6881 %	108.4779 %	98.0549 %	102.2605 %	104.2860 %	-0.0012 ppm
Concentration RSD	1.6 %	0.3 %	0.4 %	6.5 %	0.5 %	0.5 %	1,107.6 %

LabBook: WG2011242_12192024T6.imexp

Sample: CCV
Analysis started at: 12/19/2024 11:55:17 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4674 ppm	0.4974 ppm	0.4605 ppm	0.4884 ppm	0.4898 ppm	0.4870 ppm	0.5100 ppm
Concentration per Run 1	0.4669 ppm	0.5070 ppm	0.4599 ppm	0.4886 ppm	0.5050 ppm	0.4997 ppm	0.5258 ppm
Concentration per Run 2	0.4680 ppm	0.4936 ppm	0.4612 ppm	0.4882 ppm	0.4821 ppm	0.4825 ppm	0.5050 ppm
Concentration per Run 3	0.4673 ppm	0.4915 ppm	0.4604 ppm	0.4884 ppm	0.4823 ppm	0.4787 ppm	0.4990 ppm
Recovery Percentage 1	93.483 %	99.476 %	92.098 %	97.683 %	97.954 %	97.394 %	101.992 %
Concentration RSD	0.1 %	1.7 %	0.1 %	0.0 %	2.7 %	2.3 %	2.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4762 ppm	0.5087 ppm	0.4630 ppm	0.4647 ppm	0.4711 ppm	5.1520 ppm	0.4856 ppm
Concentration per Run 1	0.4775 ppm	0.5099 ppm	0.4609 ppm	0.4648 ppm	0.4948 ppm	5.2854 ppm	0.4845 ppm
Concentration per Run 2	0.4767 ppm	0.5098 ppm	0.4637 ppm	0.4643 ppm	0.4634 ppm	5.0718 ppm	0.4862 ppm
Concentration per Run 3	0.4744 ppm	0.5064 ppm	0.4644 ppm	0.4649 ppm	0.4551 ppm	5.0989 ppm	0.4861 ppm
Recovery Percentage 1	95.231 %	101.738 %	92.599 %	92.938 %	94.217 %	103.041 %	97.112 %
Concentration RSD	0.3 %	0.4 %	0.4 %	0.1 %	4.4 %	2.3 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4698 ppm	0.4853 ppm	10.4876 ppm	0.4915 ppm	0.5038 ppm	0.5078 ppm	0.4975 ppm
Concentration per Run 1	0.4824 ppm	0.4849 ppm	10.7941 ppm	0.4933 ppm	0.5038 ppm	0.5084 ppm	0.4952 ppm
Concentration per Run 2	0.4664 ppm	0.4856 ppm	10.3387 ppm	0.4913 ppm	0.5043 ppm	0.5074 ppm	0.4995 ppm
Concentration per Run 3	0.4605 ppm	0.4854 ppm	10.3299 ppm	0.4897 ppm	0.5032 ppm	0.5077 ppm	0.4977 ppm
Recovery Percentage 1	93.958 %	97.061 %	104.876 %	98.292 %	100.755 %	101.567 %	99.499 %
Concentration RSD	2.4 %	0.1 %	2.5 %	0.4 %	0.1 %	0.1 %	0.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.5568 ppm	0.4816 ppm	0.5048 ppm	0.4921 ppm	0.4931 ppm	0.4683 ppm	0.5067 ppm
Concentration per Run 1	5.5524 ppm	0.4827 ppm	0.5198 ppm	0.4921 ppm	0.4934 ppm	0.4684 ppm	0.5085 ppm
Concentration per Run 2	5.5620 ppm	0.4822 ppm	0.4974 ppm	0.4922 ppm	0.4934 ppm	0.4683 ppm	0.5069 ppm
Concentration per Run 3	5.5562 ppm	0.4797 ppm	0.4974 ppm	0.4919 ppm	0.4924 ppm	0.4683 ppm	0.5049 ppm
Recovery Percentage 1	105.845 %	96.311 %	100.969 %	98.418 %	98.613 %	93.666 %	101.349 %
Concentration RSD	0.1 %	0.3 %	2.6 %	0.0 %	0.1 %	0.0 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	92.5245 %	105.3785 %	108.2012 %	104.0915 %	99.4600 %	106.1098 %	0.5058 ppm
Concentration per Run 1	90.1028 %	105.3464 %	108.4438 %	99.1270 %	99.4395 %	106.0808 %	0.5316 ppm
Concentration per Run 2	93.5728 %	105.3035 %	108.2761 %	105.5060 %	99.5188 %	106.0428 %	0.4959 ppm
Concentration per Run 3	93.8978 %	105.4857 %	107.8836 %	107.6415 %	99.4216 %	106.2057 %	0.4900 ppm
Recovery Percentage 1							101.170 %
Concentration RSD	2.3 %	0.1 %	0.3 %	4.3 %	0.1 %	0.1 %	4.4 %

LabBook: WG2011242_12192024T6.imexp

Sample: CCB
Analysis started at: 12/20/2024 12:01:43 AM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0012 ppm	0.0002 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	0.0291 ppm
Concentration per Run 1	0.0002 ppm	-0.0039 ppm	0.0000 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0308 ppm
Concentration per Run 2	0.0001 ppm	0.0069 ppm	0.0007 ppm	0.0013 ppm	0.0002 ppm	0.0000 ppm	0.0260 ppm
Concentration per Run 3	0.0002 ppm	-0.0066 ppm	-0.0001 ppm	0.0010 ppm	0.0001 ppm	0.0000 ppm	0.0304 ppm
Recovery Percentage 1	2.687 %	-1.168 %	4.198 %	3.973 %	0.754 %	-0.168 %	29.074 %
Concentration RSD	23.2 %	612.8 %	209.7 %	13.4 %	125.6 %	379.1 %	9.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0051 ppm	-0.0008 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0001 ppm	0.0256 ppm	-0.0014 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0002 ppm	-0.0212 ppm	-0.0004 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0109 ppm	-0.0007 ppm
Recovery Percentage 1	1.706 %	-0.191 %	0.331 %	0.367 %	0.019 %	0.205 %	-0.809 %
Concentration RSD	33.7 %	300.3 %	389.2 %	330.9 %	2,975.4 %	466.6 %	63.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0003 ppm	0.0009 ppm	0.0085 ppm	-0.0001 ppm	0.0001 ppm	0.0013 ppm	0.0014 ppm
Concentration per Run 1	-0.0006 ppm	0.0011 ppm	0.0058 ppm	-0.0002 ppm	-0.0002 ppm	0.0005 ppm	0.0010 ppm
Concentration per Run 2	-0.0001 ppm	0.0008 ppm	0.0112 ppm	0.0001 ppm	0.0005 ppm	0.0003 ppm	0.0018 ppm
Concentration per Run 3	-0.0002 ppm	0.0007 ppm	0.0085 ppm	-0.0003 ppm	0.0001 ppm	0.0032 ppm	0.0014 ppm
Recovery Percentage 1	-3.025 %	1.747 %	0.425 %	-0.515 %	1.260 %	2.667 %	14.202 %
Concentration RSD	80.7 %	22.4 %	31.5 %	159.3 %	298.8 %	118.7 %	29.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0021 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	-0.0002 ppm	0.0003 ppm
Concentration per Run 1	0.0021 ppm	0.0006 ppm	0.0000 ppm	0.0002 ppm	0.0002 ppm	-0.0002 ppm	0.0004 ppm
Concentration per Run 2	0.0022 ppm	0.0010 ppm	0.0001 ppm	-0.0001 ppm	0.0004 ppm	-0.0002 ppm	0.0003 ppm
Concentration per Run 3	0.0020 ppm	0.0004 ppm	0.0000 ppm	-0.0001 ppm	0.0004 ppm	-0.0001 ppm	0.0003 ppm
Recovery Percentage 1	0.425 %	1.295 %	0.399 %	-0.168 %	1.523 %	-1.562 %	6.307 %
Concentration RSD	4.9 %	42.6 %	184.7 %	1,108.7 %	35.9 %	44.1 %	21.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	94.1412 %	106.2595 %	108.3408 %	102.1581 %	100.1224 %	106.0089 %	0.0009 ppm
Concentration per Run 1	92.3442 %	106.3413 %	108.8153 %	96.8165 %	99.9319 %	105.9721 %	0.0015 ppm
Concentration per Run 2	95.1457 %	106.3145 %	107.9645 %	103.9641 %	99.7936 %	105.9910 %	-0.0001 ppm
Concentration per Run 3	94.9337 %	106.1227 %	108.2424 %	105.6939 %	100.6416 %	106.0636 %	0.0013 ppm
Recovery Percentage 1							8.715 %
Concentration RSD	1.7 %	0.1 %	0.4 %	4.6 %	0.5 %	0.0 %	99.1 %

LabBook: WG2011242_12192024T6.imexp

Sample: CCV
Analysis started at: 12/20/2024 12:08:30 AM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4666 ppm	0.4884 ppm	0.4613 ppm	0.4877 ppm	0.4891 ppm	0.4868 ppm	0.5093 ppm
Concentration per Run 1	0.4651 ppm	0.5074 ppm	0.4595 ppm	0.4865 ppm	0.5021 ppm	0.5003 ppm	0.5229 ppm
Concentration per Run 2	0.4666 ppm	0.4818 ppm	0.4619 ppm	0.4887 ppm	0.4830 ppm	0.4801 ppm	0.5025 ppm
Concentration per Run 3	0.4680 ppm	0.4760 ppm	0.4624 ppm	0.4879 ppm	0.4820 ppm	0.4799 ppm	0.5026 ppm
Recovery Percentage 1	93.315 %	97.678 %	92.259 %	97.534 %	97.813 %	97.351 %	101.869 %
Concentration RSD	0.3 %	3.4 %	0.3 %	0.2 %	2.3 %	2.4 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4777 ppm	0.5078 ppm	0.4656 ppm	0.4618 ppm	0.4718 ppm	5.1420 ppm	0.4895 ppm
Concentration per Run 1	0.4786 ppm	0.5076 ppm	0.4644 ppm	0.4609 ppm	0.4967 ppm	5.2464 ppm	0.4867 ppm
Concentration per Run 2	0.4766 ppm	0.5075 ppm	0.4674 ppm	0.4604 ppm	0.4630 ppm	5.1045 ppm	0.4913 ppm
Concentration per Run 3	0.4780 ppm	0.5082 ppm	0.4650 ppm	0.4640 ppm	0.4556 ppm	5.0752 ppm	0.4906 ppm
Recovery Percentage 1	95.547 %	101.554 %	93.129 %	92.356 %	94.354 %	102.840 %	97.908 %
Concentration RSD	0.2 %	0.1 %	0.3 %	0.4 %	4.6 %	1.8 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4666 ppm	0.4842 ppm	10.4265 ppm	0.4916 ppm	0.5011 ppm	0.5036 ppm	0.4965 ppm
Concentration per Run 1	0.4800 ppm	0.4822 ppm	10.6821 ppm	0.4919 ppm	0.5017 ppm	0.5027 ppm	0.4941 ppm
Concentration per Run 2	0.4617 ppm	0.4845 ppm	10.3044 ppm	0.4914 ppm	0.5008 ppm	0.5027 ppm	0.4959 ppm
Concentration per Run 3	0.4581 ppm	0.4860 ppm	10.2930 ppm	0.4916 ppm	0.5009 ppm	0.5053 ppm	0.4994 ppm
Recovery Percentage 1	93.323 %	96.850 %	104.265 %	98.325 %	100.228 %	100.713 %	99.297 %
Concentration RSD	2.5 %	0.4 %	2.1 %	0.1 %	0.1 %	0.3 %	0.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.5576 ppm	0.4824 ppm	0.5044 ppm	0.4922 ppm	0.4925 ppm	0.4695 ppm	0.5070 ppm
Concentration per Run 1	5.5429 ppm	0.4827 ppm	0.5172 ppm	0.4919 ppm	0.4939 ppm	0.4691 ppm	0.5084 ppm
Concentration per Run 2	5.5597 ppm	0.4822 ppm	0.4980 ppm	0.4917 ppm	0.4910 ppm	0.4694 ppm	0.5060 ppm
Concentration per Run 3	5.5702 ppm	0.4822 ppm	0.4982 ppm	0.4928 ppm	0.4925 ppm	0.4701 ppm	0.5067 ppm
Recovery Percentage 1	105.859 %	96.473 %	100.890 %	98.432 %	98.493 %	93.904 %	101.407 %
Concentration RSD	0.2 %	0.1 %	2.2 %	0.1 %	0.3 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	93.6683 %	105.4409 %	107.6888 %	104.9290 %	99.4546 %	106.4911 %	0.5057 ppm
Concentration per Run 1	91.5664 %	105.5559 %	108.4314 %	100.2337 %	100.1307 %	106.6230 %	0.5288 ppm
Concentration per Run 2	94.5457 %	105.5091 %	107.4078 %	106.2494 %	99.1573 %	106.5538 %	0.4996 ppm
Concentration per Run 3	94.8927 %	105.2576 %	107.2272 %	108.3040 %	99.0757 %	106.2965 %	0.4887 ppm
Recovery Percentage 1							101.136 %
Concentration RSD	2.0 %	0.2 %	0.6 %	4.0 %	0.6 %	0.2 %	4.1 %

ICP DataTrace 6

12/20/2024 9:57:00 AM

LabBook: WG2011242_12192024T6.imexp

Sample: CCB
Analysis started at: 12/20/2024 12:14:55 AM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	-0.0041 ppm	0.0005 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0234 ppm
Concentration per Run 1	0.0003 ppm	-0.0049 ppm	0.0007 ppm	0.0019 ppm	0.0001 ppm	-0.0001 ppm	0.0263 ppm
Concentration per Run 2	0.0002 ppm	-0.0021 ppm	0.0015 ppm	0.0014 ppm	0.0001 ppm	0.0000 ppm	0.0229 ppm
Concentration per Run 3	0.0003 ppm	-0.0052 ppm	-0.0005 ppm	0.0017 ppm	-0.0001 ppm	0.0000 ppm	0.0209 ppm
Recovery Percentage 1	3.641 %	-4.055 %	10.905 %	5.558 %	0.455 %	-0.500 %	23.378 %
Concentration RSD	25.4 %	40.9 %	187.3 %	16.5 %	207.1 %	89.9 %	11.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	-0.0003 ppm	-0.0002 ppm	-0.0101 ppm	0.0008 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	-0.0001 ppm	-0.0009 ppm	-0.0233 ppm	0.0016 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	-0.0004 ppm	-0.0003 ppm	0.0006 ppm	-0.0032 ppm	0.0015 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	-0.0002 ppm	-0.0040 ppm	-0.0008 ppm
Recovery Percentage 1	0.886 %	-0.413 %	-2.310 %	-2.538 %	-0.332 %	-0.406 %	0.782 %
Concentration RSD	68.8 %	118.4 %	65.3 %	42.5 %	474.0 %	112.3 %	174.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0003 ppm	0.0009 ppm	0.0006 ppm	0.0001 ppm	0.0003 ppm	0.0006 ppm	0.0003 ppm
Concentration per Run 1	-0.0004 ppm	0.0010 ppm	-0.0006 ppm	0.0000 ppm	0.0005 ppm	0.0005 ppm	0.0003 ppm
Concentration per Run 2	-0.0002 ppm	0.0008 ppm	-0.0026 ppm	0.0001 ppm	0.0005 ppm	0.0004 ppm	0.0009 ppm
Concentration per Run 3	-0.0002 ppm	0.0008 ppm	0.0049 ppm	0.0002 ppm	-0.0001 ppm	0.0009 ppm	-0.0002 ppm
Recovery Percentage 1	-2.882 %	1.721 %	0.028 %	0.449 %	2.938 %	1.169 %	3.006 %
Concentration RSD	41.6 %	10.2 %	688.7 %	119.6 %	126.5 %	44.4 %	182.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0024 ppm	0.0005 ppm	0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 1	0.0023 ppm	0.0003 ppm	0.0000 ppm	0.0002 ppm	0.0010 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 2	0.0023 ppm	0.0013 ppm	0.0002 ppm	-0.0001 ppm	-0.0004 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 3	0.0028 ppm	-0.0001 ppm	0.0001 ppm	0.0002 ppm	-0.0004 ppm	-0.0001 ppm	0.0002 ppm
Recovery Percentage 1	0.489 %	1.059 %	0.970 %	0.988 %	0.469 %	-0.493 %	4.492 %
Concentration RSD	12.2 %	135.6 %	62.2 %	163.3 %	849.3 %	27.6 %	24.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	93.4886 %	106.1003 %	108.3904 %	101.8013 %	100.0864 %	105.7670 %	0.0007 ppm
Concentration per Run 1	91.7882 %	105.7323 %	108.8953 %	95.8859 %	100.3558 %	105.2927 %	0.0002 ppm
Concentration per Run 2	94.2067 %	106.2501 %	108.1866 %	103.6626 %	100.0413 %	105.8800 %	0.0013 ppm
Concentration per Run 3	94.4711 %	106.3183 %	108.0893 %	105.8554 %	99.8620 %	106.1282 %	0.0006 ppm
Recovery Percentage 1							7.153 %
Concentration RSD	1.6 %	0.3 %	0.4 %	5.1 %	0.2 %	0.4 %	81.5 %

LabBook: WG2011242_12192024T6.imexp

Sample: LLOQ RL check
Analysis started at: 12/20/2024 12:21:40 AM
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0053 ppm	0.1028 ppm	0.0050 ppm	0.0314 ppm	0.0102 ppm	0.0052 ppm	0.1015 ppm
Concentration per Run 1	0.0053 ppm	0.1046 ppm	0.0041 ppm	0.0313 ppm	0.0104 ppm	0.0052 ppm	0.1047 ppm
Concentration per Run 2	0.0054 ppm	0.1018 ppm	0.0051 ppm	0.0315 ppm	0.0101 ppm	0.0051 ppm	0.1055 ppm
Concentration per Run 3	0.0052 ppm	0.1021 ppm	0.0057 ppm	0.0315 ppm	0.0102 ppm	0.0052 ppm	0.0943 ppm
Recovery Percentage 1	105.703 %	102.843 %	99.449 %	104.753 %	102.372 %	103.456 %	101.486 %
Concentration RSD	2.0 %	1.5 %	16.7 %	0.4 %	1.9 %	0.8 %	6.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0041 ppm	0.0105 ppm	0.0098 ppm	0.0100 ppm	0.0494 ppm	2.6328 ppm	0.1049 ppm
Concentration per Run 1	0.0041 ppm	0.0105 ppm	0.0098 ppm	0.0098 ppm	0.0523 ppm	2.6635 ppm	0.1047 ppm
Concentration per Run 2	0.0041 ppm	0.0104 ppm	0.0098 ppm	0.0100 ppm	0.0500 ppm	2.6379 ppm	0.1046 ppm
Concentration per Run 3	0.0041 ppm	0.0104 ppm	0.0098 ppm	0.0101 ppm	0.0459 ppm	2.5971 ppm	0.1053 ppm
Recovery Percentage 1	102.714 %	104.573 %	97.799 %	99.860 %	98.775 %	105.314 %	104.871 %
Concentration RSD	0.3 %	0.2 %	0.3 %	1.5 %	6.6 %	1.3 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0097 ppm	0.0511 ppm	2.1767 ppm	0.0201 ppm	0.0110 ppm	0.0536 ppm	0.0099 ppm
Concentration per Run 1	0.0097 ppm	0.0509 ppm	2.2186 ppm	0.0201 ppm	0.0110 ppm	0.0531 ppm	0.0100 ppm
Concentration per Run 2	0.0099 ppm	0.0513 ppm	2.1616 ppm	0.0201 ppm	0.0108 ppm	0.0541 ppm	0.0111 ppm
Concentration per Run 3	0.0095 ppm	0.0512 ppm	2.1498 ppm	0.0200 ppm	0.0113 ppm	0.0537 ppm	0.0085 ppm
Recovery Percentage 1	96.579 %	102.266 %	108.833 %	100.342 %	110.309 %	107.285 %	98.969 %
Concentration RSD	2.1 %	0.3 %	1.7 %	0.4 %	2.2 %	0.9 %	13.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.5456 ppm	0.0496 ppm	0.0102 ppm	0.0106 ppm	**0.0215 ppm**	0.0099 ppm	0.0043 ppm
Concentration per Run 1	0.5487 ppm	0.0490 ppm	0.0103 ppm	0.0108 ppm	0.0210 ppm	0.0099 ppm	0.0042 ppm
Concentration per Run 2	0.5430 ppm	0.0504 ppm	0.0101 ppm	0.0106 ppm	0.0228 ppm	0.0099 ppm	0.0043 ppm
Concentration per Run 3	0.5451 ppm	0.0492 ppm	0.0101 ppm	0.0104 ppm	0.0207 ppm	0.0098 ppm	0.0043 ppm
Recovery Percentage 1	109.119 %	99.116 %	101.728 %	105.807 %	107.681 %	98.790 %	85.165 %
Concentration RSD	0.5 %	1.6 %	0.7 %	1.7 %	5.2 %	0.5 %	1.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	94.2728 %	106.0404 %	108.4698 %	103.0694 %	101.7206 %	106.6579 %	0.0115 ppm
Concentration per Run 1	93.2020 %	106.2345 %	108.1724 %	98.4070 %	102.1763 %	106.6819 %	0.0126 ppm
Concentration per Run 2	95.0338 %	106.2643 %	108.7781 %	104.3350 %	101.4736 %	106.9182 %	0.0106 ppm
Concentration per Run 3	94.5825 %	105.6224 %	108.4591 %	106.4662 %	101.5121 %	106.3736 %	0.0114 ppm
Recovery Percentage 1							115.276 %
Concentration RSD	1.0 %	0.3 %	0.3 %	4.1 %	0.4 %	0.3 %	8.7 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample:	XCCB CAP WAS ON
Analysis started at:	12/19/2024 10:09:09 AM
Rack	0
Vial	4
Comment	<Comment>

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

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

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: eL2473015-03D2 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

12/20/2024 9:52:18 AM

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 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473015-01D2 WG2010388
Analysis started at: 12/19/2024 2:25:48 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	0.0016 ppm	26.8103 ppm	0.1015 ppm	0.0181 ppm	0.2180 ppm	0.0025 ppm	145.1092 ppm
Concentration per Run 1	0.0017 ppm	26.7146 ppm	0.1007 ppm	0.0186 ppm	0.2183 ppm	0.0025 ppm	145.0031 ppm
Concentration per Run 2	0.0015 ppm	26.7422 ppm	0.1028 ppm	0.0181 ppm	0.2172 ppm	0.0025 ppm	145.5014 ppm
Concentration per Run 3	0.0016 ppm	26.9741 ppm	0.1011 ppm	0.0175 ppm	0.2186 ppm	0.0025 ppm	144.8230 ppm
Concentration RSD	7.4 %	0.5 %	1.1 %	3.1 %	0.3 %	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	0.0005 ppm	0.0445 ppm	0.0741 ppm	0.1330 ppm	178.7094 ppm	2.7701 ppm	0.0479 ppm
Concentration per Run 1	0.0005 ppm	0.0435 ppm	0.0737 ppm	0.1316 ppm	178.6569 ppm	2.7938 ppm	0.0486 ppm
Concentration per Run 2	0.0006 ppm	0.0443 ppm	0.0741 ppm	0.1332 ppm	179.1765 ppm	2.7360 ppm	0.0470 ppm
Concentration per Run 3	0.0005 ppm	0.0455 ppm	0.0746 ppm	0.1344 ppm	178.2950 ppm	2.7806 ppm	0.0482 ppm
Concentration RSD	10.1 %	2.4 %	0.6 %	1.0 %	0.2 %	1.1 %	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	33.4781 ppm	4.3462 ppm	0.0101 ppm	0.4917 ppm	0.1087 ppm	0.0854 ppm	0.0062 ppm
Concentration per Run 1	33.3403 ppm	4.3453 ppm	0.0105 ppm	0.4953 ppm	0.1084 ppm	0.0857 ppm	0.0054 ppm
Concentration per Run 2	33.3452 ppm	4.3539 ppm	0.0097 ppm	0.4831 ppm	0.1081 ppm	0.0852 ppm	0.0060 ppm
Concentration per Run 3	33.7489 ppm	4.3394 ppm	0.0100 ppm	0.4966 ppm	0.1095 ppm	0.0855 ppm	0.0071 ppm
Concentration RSD	0.7 %	0.2 %	4.2 %	1.5 %	0.7 %	0.3 %	14.1 %

	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	-0.0021 ppm	3.4491 ppm	0.0038 ppm	0.2099 ppm	0.5011 ppm	-0.0036 ppm	0.0743 ppm
Concentration per Run 1	-0.0002 ppm	3.4542 ppm	0.0035 ppm	0.2101 ppm	0.4933 ppm	-0.0034 ppm	0.0736 ppm
Concentration per Run 2	-0.0035 ppm	3.4601 ppm	0.0042 ppm	0.2092 ppm	0.5008 ppm	-0.0039 ppm	0.0740 ppm
Concentration per Run 3	-0.0026 ppm	3.4330 ppm	0.0038 ppm	0.2104 ppm	0.5093 ppm	-0.0035 ppm	0.0755 ppm
Concentration RSD	80.2 %	0.4 %	10.0 %	0.3 %	1.6 %	7.5 %	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	0.3535 ppm	104.9467 %	102.8573 %	86.7465 %	111.8773 %	119.9844 %	113.4287 %
Concentration per Run 1	0.3523 ppm	105.5896 %	103.0578 %	86.9707 %	111.3382 %	120.4511 %	113.4622 %
Concentration per Run 2	0.3517 ppm	105.1209 %	102.9292 %	86.8778 %	112.2700 %	119.8880 %	113.4420 %
Concentration per Run 3	0.3565 ppm	104.1296 %	102.5848 %	86.3909 %	112.0237 %	119.6141 %	113.3819 %
Concentration RSD	0.7 %	0.7 %	0.2 %	0.4 %	0.4 %	0.4 %	0.0 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2010388-3D2 WG2010388
Analysis started at: 12/19/2024 2:30:35 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	0.0514 ppm	36.2155 ppm	0.2035 ppm	0.9414 ppm	2.1751 ppm	0.0526 ppm	210.3184 ppm
Concentration per Run 1	0.0513 ppm	36.3844 ppm	0.2044 ppm	0.9408 ppm	2.2056 ppm	0.0531 ppm	211.7265 ppm
Concentration per Run 2	0.0518 ppm	36.1947 ppm	0.2040 ppm	0.9439 ppm	2.1650 ppm	0.0525 ppm	210.9133 ppm
Concentration per Run 3	0.0512 ppm	36.0674 ppm	0.2021 ppm	0.9395 ppm	2.1546 ppm	0.0521 ppm	208.3153 ppm
Concentration RSD	0.6 %	0.4 %	0.6 %	0.2 %	1.2 %	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	0.0501 ppm	0.5340 ppm	0.3453 ppm	0.4286 ppm	177.2801 ppm	13.7410 ppm	0.0593 ppm
Concentration per Run 1	0.0503 ppm	0.5361 ppm	0.3475 ppm	0.4301 ppm	178.3335 ppm	13.8240 ppm	0.0607 ppm
Concentration per Run 2	0.0500 ppm	0.5364 ppm	0.3457 ppm	0.4308 ppm	177.5183 ppm	13.7909 ppm	0.0586 ppm
Concentration per Run 3	0.0499 ppm	0.5295 ppm	0.3427 ppm	0.4249 ppm	175.9885 ppm	13.6082 ppm	0.0586 ppm
Concentration RSD	0.4 %	0.7 %	0.7 %	0.8 %	0.7 %	0.8 %	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	51.8566 ppm	5.4748 ppm	1.0107 ppm	10.8817 ppm	0.6215 ppm	0.6764 ppm	0.4869 ppm
Concentration per Run 1	52.2533 ppm	5.5167 ppm	0.9994 ppm	10.9106 ppm	0.6270 ppm	0.6781 ppm	0.4906 ppm
Concentration per Run 2	51.7711 ppm	5.4813 ppm	1.0165 ppm	10.8771 ppm	0.6209 ppm	0.6778 ppm	0.4910 ppm
Concentration per Run 3	51.5456 ppm	5.4266 ppm	1.0163 ppm	10.8575 ppm	0.6166 ppm	0.6732 ppm	0.4792 ppm
Concentration RSD	0.7 %	0.8 %	1.0 %	0.2 %	0.8 %	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	0.0909 ppm	5.2454 ppm	0.9422 ppm	1.2868 ppm	1.6302 ppm	0.1106 ppm	0.6234 ppm
Concentration per Run 1	0.0898 ppm	5.3057 ppm	0.9480 ppm	1.3017 ppm	1.6387 ppm	0.1091 ppm	0.6273 ppm
Concentration per Run 2	0.0921 ppm	5.2769 ppm	0.9427 ppm	1.2825 ppm	1.6354 ppm	0.1108 ppm	0.6237 ppm
Concentration per Run 3	0.0908 ppm	5.1536 ppm	0.9359 ppm	1.2762 ppm	1.6164 ppm	0.1118 ppm	0.6191 ppm
Concentration RSD	1.2 %	1.5 %	0.6 %	1.0 %	0.7 %	1.3 %	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	0.9674 ppm	96.6186 %	101.0654 %	76.9033 %	112.5821 %	122.2227 %	112.9314 %
Concentration per Run 1	0.9717 ppm	96.2627 %	100.6171 %	76.6958 %	112.9113 %	121.9388 %	112.7849 %
Concentration per Run 2	0.9673 ppm	96.9642 %	100.8454 %	76.9203 %	113.3184 %	121.8476 %	112.9464 %
Concentration per Run 3	0.9630 ppm	96.6287 %	101.7337 %	77.0937 %	111.5166 %	122.8819 %	113.0629 %
Concentration RSD	0.4 %	0.4 %	0.6 %	0.3 %	0.8 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2010388-4D2 WG2010388
Analysis started at: 12/19/2024 2:35:02 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	0.0018 ppm	30.3691 ppm	0.1182 ppm	0.0239 ppm	0.2730 ppm	0.0036 ppm	193.9678 ppm
Concentration per Run 1	0.0018 ppm	30.3063 ppm	0.1200 ppm	0.0242 ppm	0.2736 ppm	0.0036 ppm	193.6038 ppm
Concentration per Run 2	0.0017 ppm	30.4666 ppm	0.1179 ppm	0.0235 ppm	0.2734 ppm	0.0036 ppm	194.6548 ppm
Concentration per Run 3	0.0020 ppm	30.3345 ppm	0.1167 ppm	0.0238 ppm	0.2720 ppm	0.0035 ppm	193.6447 ppm
Concentration RSD	5.9 %	0.3 %	1.4 %	1.5 %	0.3 %	1.1 %	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	0.0004 ppm	0.0651 ppm	0.0900 ppm	0.1751 ppm	214.0745 ppm	3.0243 ppm	0.0547 ppm
Concentration per Run 1	0.0004 ppm	0.0658 ppm	0.0904 ppm	0.1765 ppm	214.0090 ppm	3.0400 ppm	0.0545 ppm
Concentration per Run 2	0.0004 ppm	0.0643 ppm	0.0897 ppm	0.1737 ppm	214.4976 ppm	3.0127 ppm	0.0557 ppm
Concentration per Run 3	0.0004 ppm	0.0650 ppm	0.0897 ppm	0.1750 ppm	213.7169 ppm	3.0201 ppm	0.0539 ppm
Concentration RSD	7.6 %	1.2 %	0.4 %	0.8 %	0.2 %	0.5 %	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	66.5315 ppm	5.8033 ppm	0.0142 ppm	0.6522 ppm	0.1503 ppm	0.1109 ppm	0.0094 ppm
Concentration per Run 1	67.1771 ppm	5.7952 ppm	0.0146 ppm	0.6519 ppm	0.1518 ppm	0.1112 ppm	0.0104 ppm
Concentration per Run 2	66.5543 ppm	5.8199 ppm	0.0142 ppm	0.6536 ppm	0.1497 ppm	0.1107 ppm	0.0083 ppm
Concentration per Run 3	65.8631 ppm	5.7949 ppm	0.0138 ppm	0.6510 ppm	0.1495 ppm	0.1106 ppm	0.0096 ppm
Concentration RSD	1.0 %	0.2 %	2.6 %	0.2 %	0.8 %	0.3 %	11.4 %

	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	-0.0029 ppm	3.8255 ppm	0.0040 ppm	0.2733 ppm	0.5698 ppm	-0.0042 ppm	0.0987 ppm
Concentration per Run 1	-0.0036 ppm	3.8893 ppm	0.0049 ppm	0.2735 ppm	0.5728 ppm	-0.0039 ppm	0.1000 ppm
Concentration per Run 2	-0.0018 ppm	3.7990 ppm	0.0038 ppm	0.2748 ppm	0.5704 ppm	-0.0047 ppm	0.0985 ppm
Concentration per Run 3	-0.0032 ppm	3.7882 ppm	0.0033 ppm	0.2717 ppm	0.5661 ppm	-0.0041 ppm	0.0977 ppm
Concentration RSD	33.1 %	1.5 %	19.8 %	0.6 %	0.6 %	9.2 %	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	0.4679 ppm	96.8042 %	101.6377 %	79.1293 %	115.5837 %	126.1052 %	116.1940 %
Concentration per Run 1	0.4716 ppm	96.0566 %	101.9102 %	78.5574 %	115.5546 %	126.5671 %	115.6881 %
Concentration per Run 2	0.4693 ppm	97.3080 %	101.4146 %	79.7598 %	116.0350 %	125.8133 %	117.0663 %
Concentration per Run 3	0.4629 ppm	97.0480 %	101.5884 %	79.0707 %	115.1615 %	125.9352 %	115.8277 %
Concentration RSD	1.0 %	0.7 %	0.2 %	0.8 %	0.4 %	0.3 %	0.7 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2010388-5D2 WG2010388
Analysis started at: 12/19/2024 2:39:28 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	0.0520 ppm	27.7705 ppm	0.1987 ppm	0.9870 ppm	2.1816 ppm	0.0541 ppm	148.6941 ppm
Concentration per Run 1	0.0525 ppm	27.5700 ppm	0.1984 ppm	0.9912 ppm	2.1639 ppm	0.0541 ppm	148.7586 ppm
Concentration per Run 2	0.0521 ppm	27.9513 ppm	0.1993 ppm	0.9864 ppm	2.1808 ppm	0.0539 ppm	148.5443 ppm
Concentration per Run 3	0.0516 ppm	27.7904 ppm	0.1986 ppm	0.9833 ppm	2.2002 ppm	0.0543 ppm	148.7793 ppm
Concentration RSD	0.8 %	0.7 %	0.2 %	0.4 %	0.8 %	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	0.0506 ppm	0.5325 ppm	0.2743 ppm	0.3967 ppm	171.2722 ppm	13.7402 ppm	0.0455 ppm
Concentration per Run 1	0.0507 ppm	0.5342 ppm	0.2743 ppm	0.3997 ppm	171.0745 ppm	13.5712 ppm	0.0454 ppm
Concentration per Run 2	0.0509 ppm	0.5324 ppm	0.2752 ppm	0.3961 ppm	170.9918 ppm	13.6834 ppm	0.0454 ppm
Concentration per Run 3	0.0504 ppm	0.5309 ppm	0.2733 ppm	0.3942 ppm	171.7502 ppm	13.9661 ppm	0.0457 ppm
Concentration RSD	0.5 %	0.3 %	0.3 %	0.7 %	0.2 %	1.5 %	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	43.2696 ppm	4.6452 ppm	1.0032 ppm	11.5215 ppm	0.5979 ppm	0.6431 ppm	0.5048 ppm
Concentration per Run 1	43.4375 ppm	4.6378 ppm	0.9922 ppm	11.3282 ppm	0.5966 ppm	0.6440 ppm	0.5094 ppm
Concentration per Run 2	43.2849 ppm	4.6464 ppm	1.0069 ppm	11.6332 ppm	0.5991 ppm	0.6425 ppm	0.5093 ppm
Concentration per Run 3	43.0864 ppm	4.6514 ppm	1.0105 ppm	11.6032 ppm	0.5979 ppm	0.6427 ppm	0.4957 ppm
Concentration RSD	0.4 %	0.1 %	1.0 %	1.5 %	0.2 %	0.1 %	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	0.0993 ppm	4.1568 ppm	0.9862 ppm	1.2247 ppm	1.5256 ppm	0.1194 ppm	0.5936 ppm
Concentration per Run 1	0.0989 ppm	4.1713 ppm	0.9857 ppm	1.2161 ppm	1.5313 ppm	0.1203 ppm	0.5971 ppm
Concentration per Run 2	0.0980 ppm	4.1660 ppm	0.9942 ppm	1.2220 ppm	1.5273 ppm	0.1197 ppm	0.5921 ppm
Concentration per Run 3	0.1010 ppm	4.1331 ppm	0.9788 ppm	1.2358 ppm	1.5182 ppm	0.1182 ppm	0.5916 ppm
Concentration RSD	1.5 %	0.5 %	0.8 %	0.8 %	0.4 %	0.9 %	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	0.8442 ppm	96.8866 %	102.0548 %	79.5288 %	109.2375 %	119.0697 %	109.9715 %
Concentration per Run 1	0.8412 ppm	96.6162 %	102.1379 %	79.0767 %	109.9707 %	118.7943 %	109.4825 %
Concentration per Run 2	0.8521 ppm	96.9986 %	101.9530 %	79.9143 %	109.1659 %	118.8526 %	110.6970 %
Concentration per Run 3	0.8392 ppm	97.0451 %	102.0735 %	79.5955 %	108.5761 %	119.5622 %	109.7350 %
Concentration RSD	0.8 %	0.2 %	0.1 %	0.5 %	0.6 %	0.4 %	0.6 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2010388-6D10 WG2010388
Analysis started at: 12/19/2024 2:43:57 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	0.0006 ppm	5.3690 ppm	0.0235 ppm	0.0050 ppm	0.0445 ppm	0.0005 ppm	30.3714 ppm
Concentration per Run 1	0.0004 ppm	5.3556 ppm	0.0231 ppm	0.0048 ppm	0.0445 ppm	0.0005 ppm	30.3973 ppm
Concentration per Run 2	0.0006 ppm	5.3711 ppm	0.0237 ppm	0.0049 ppm	0.0446 ppm	0.0006 ppm	30.3840 ppm
Concentration per Run 3	0.0008 ppm	5.3803 ppm	0.0237 ppm	0.0055 ppm	0.0445 ppm	0.0005 ppm	30.3329 ppm
Concentration RSD	30.7 %	0.2 %	1.4 %	7.1 %	0.2 %	3.0 %	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	0.0102 ppm	0.0162 ppm	0.0279 ppm	39.1409 ppm	0.5488 ppm	0.0096 ppm
Concentration per Run 1	0.0001 ppm	0.0106 ppm	0.0163 ppm	0.0278 ppm	39.1375 ppm	0.5696 ppm	0.0100 ppm
Concentration per Run 2	0.0000 ppm	0.0102 ppm	0.0159 ppm	0.0279 ppm	39.1847 ppm	0.5405 ppm	0.0097 ppm
Concentration per Run 3	0.0001 ppm	0.0100 ppm	0.0163 ppm	0.0280 ppm	39.1007 ppm	0.5362 ppm	0.0091 ppm
Concentration RSD	125.5 %	3.3 %	1.5 %	0.2 %	0.1 %	3.3 %	5.0 %

	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	7.5843 ppm	0.9183 ppm	0.0052 ppm	0.0927 ppm	0.0251 ppm	0.0171 ppm	0.0040 ppm
Concentration per Run 1	7.6696 ppm	0.9194 ppm	0.0052 ppm	0.0905 ppm	0.0255 ppm	0.0180 ppm	0.0027 ppm
Concentration per Run 2	7.5313 ppm	0.9182 ppm	0.0051 ppm	0.0944 ppm	0.0247 ppm	0.0166 ppm	0.0050 ppm
Concentration per Run 3	7.5520 ppm	0.9171 ppm	0.0054 ppm	0.0932 ppm	0.0249 ppm	0.0168 ppm	0.0042 ppm
Concentration RSD	1.0 %	0.1 %	3.5 %	2.2 %	1.5 %	4.5 %	28.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0016 ppm	0.6660 ppm	0.0013 ppm	0.0428 ppm	0.1059 ppm	-0.0006 ppm	0.0164 ppm
Concentration per Run 1	-0.0023 ppm	0.6605 ppm	0.0015 ppm	0.0427 ppm	0.1067 ppm	-0.0014 ppm	0.0163 ppm
Concentration per Run 2	-0.0005 ppm	0.6737 ppm	0.0010 ppm	0.0431 ppm	0.1043 ppm	-0.0004 ppm	0.0163 ppm
Concentration per Run 3	-0.0020 ppm	0.6638 ppm	0.0015 ppm	0.0427 ppm	0.1068 ppm	0.0002 ppm	0.0164 ppm
Concentration RSD	58.1 %	1.0 %	23.0 %	0.5 %	1.4 %	148.1 %	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	0.0810 ppm	99.1094 %	102.3877 %	92.4129 %	100.6861 %	105.3496 %	102.1300 %
Concentration per Run 1	0.0815 ppm	98.4906 %	102.2664 %	91.8400 %	101.0461 %	105.2291 %	102.2088 %
Concentration per Run 2	0.0813 ppm	99.2371 %	102.3266 %	92.1864 %	101.2586 %	105.2699 %	101.7882 %
Concentration per Run 3	0.0803 ppm	99.6005 %	102.5701 %	93.2123 %	99.7535 %	105.5498 %	102.3928 %
Concentration RSD	0.8 %	0.6 %	0.2 %	0.8 %	0.8 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: CCV
Analysis started at: 12/19/2024 2:48:24 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	0.5009 ppm	0.4913 ppm	0.4836 ppm	0.5027 ppm	0.4899 ppm	0.5169 ppm	0.5176 ppm
Concentration per Run 1	0.5069 ppm	0.4906 ppm	0.4822 ppm	0.5050 ppm	0.4878 ppm	0.5174 ppm	0.5182 ppm
Concentration per Run 2	0.5001 ppm	0.4901 ppm	0.4871 ppm	0.5029 ppm	0.4896 ppm	0.5141 ppm	0.5173 ppm
Concentration per Run 3	0.4957 ppm	0.4932 ppm	0.4815 ppm	0.5001 ppm	0.4923 ppm	0.5191 ppm	0.5171 ppm
Recovery Percentage 1	100.179 %	98.262 %	96.719 %	100.534 %	97.984 %	103.378 %	103.512 %
Concentration RSD	1.1 %	0.3 %	0.6 %	0.5 %	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	0.5137 ppm	0.5266 ppm	0.5071 ppm	0.5006 ppm	0.5339 ppm	5.1338 ppm	0.4923 ppm
Concentration per Run 1	0.5230 ppm	0.5329 ppm	0.5139 ppm	0.5038 ppm	0.5304 ppm	5.1359 ppm	0.4917 ppm
Concentration per Run 2	0.5095 ppm	0.5248 ppm	0.5054 ppm	0.5011 ppm	0.5315 ppm	5.0972 ppm	0.4862 ppm
Concentration per Run 3	0.5086 ppm	0.5223 ppm	0.5020 ppm	0.4969 ppm	0.5398 ppm	5.1682 ppm	0.4990 ppm
Recovery Percentage 1	102.746 %	105.328 %	101.426 %	100.119 %	106.780 %	102.676 %	98.460 %
Concentration RSD	1.6 %	1.0 %	1.2 %	0.7 %	1.0 %	0.7 %	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	0.5193 ppm	0.5046 ppm	0.5118 ppm	10.0816 ppm	0.5232 ppm	0.4930 ppm	0.5126 ppm
Concentration per Run 1	0.5268 ppm	0.5052 ppm	0.5144 ppm	9.9920 ppm	0.5303 ppm	0.4965 ppm	0.5206 ppm
Concentration per Run 2	0.5183 ppm	0.5024 ppm	0.5100 ppm	10.1366 ppm	0.5198 ppm	0.4909 ppm	0.5108 ppm
Concentration per Run 3	0.5129 ppm	0.5063 ppm	0.5109 ppm	10.1164 ppm	0.5196 ppm	0.4915 ppm	0.5065 ppm
Recovery Percentage 1	103.864 %	100.922 %	102.352 %	100.816 %	104.645 %	98.590 %	102.526 %
Concentration RSD	1.3 %	0.4 %	0.5 %	0.8 %	1.2 %	0.6 %	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	0.4896 ppm	5.6417 ppm	0.5400 ppm	0.5206 ppm	0.5089 ppm	0.4922 ppm	0.5070 ppm
Concentration per Run 1	0.4881 ppm	5.6970 ppm	0.5517 ppm	0.5205 ppm	0.5143 ppm	0.4923 ppm	0.5123 ppm
Concentration per Run 2	0.4900 ppm	5.6198 ppm	0.5320 ppm	0.5168 ppm	0.5090 ppm	0.4910 ppm	0.5067 ppm
Concentration per Run 3	0.4907 ppm	5.6083 ppm	0.5364 ppm	0.5245 ppm	0.5035 ppm	0.4933 ppm	0.5019 ppm
Recovery Percentage 1	97.916 %	107.461 %	108.005 %	104.121 %	101.785 %	98.435 %	101.391 %
Concentration RSD	0.3 %	0.9 %	1.9 %	0.7 %	1.1 %	0.2 %	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	0.5184 ppm	100.9057 %	102.3331 %	95.4625 %	97.6951 %	101.0163 %	99.1946 %
Concentration per Run 1	0.5289 ppm	99.7808 %	102.3524 %	94.7575 %	97.1199 %	101.4599 %	98.7901 %
Concentration per Run 2	0.5138 ppm	101.2002 %	102.5966 %	95.7584 %	98.1354 %	100.7347 %	99.3505 %
Concentration per Run 3	0.5126 ppm	101.7360 %	102.0502 %	95.8716 %	97.8299 %	100.8542 %	99.4434 %
Recovery Percentage 1	103.687 %						
Concentration RSD	1.8 %	1.0 %	0.3 %	0.6 %	0.5 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: CCB
Analysis started at: 12/19/2024 2:52:50 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	0.0002 ppm	0.0012 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0016 ppm
Concentration per Run 1	0.0001 ppm	-0.0019 ppm	0.0006 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0017 ppm
Concentration per Run 2	0.0002 ppm	0.0003 ppm	0.0021 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 3	0.0000 ppm	0.0022 ppm	0.0009 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0029 ppm
Recovery Percentage 1	2.226 %	0.185 %	23.689 %	3.210 %	0.338 %	0.703 %	1.555 %
Concentration RSD	90.2 %	1,102.8 %	65.8 %	64.5 %	137.4 %	2.9 %	92.3 %

	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	0.0004 ppm	0.0080 ppm	-0.0046 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0004 ppm	0.0079 ppm	-0.0059 ppm	0.0002 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0005 ppm	0.0078 ppm	-0.0028 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0082 ppm	-0.0053 ppm	0.0001 ppm
Recovery Percentage 1	0.431 %	0.255 %	0.822 %	4.271 %	15.922 %	-0.186 %	1.381 %
Concentration RSD	307.0 %	782.5 %	165.3 %	11.0 %	3.0 %	35.8 %	17.5 %

	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	-0.0005 ppm	0.0000 ppm	0.0023 ppm	-0.0085 ppm	0.0003 ppm	-0.0004 ppm	0.0035 ppm
Concentration per Run 1	-0.0001 ppm	0.0000 ppm	0.0023 ppm	-0.0091 ppm	-0.0002 ppm	-0.0008 ppm	0.0040 ppm
Concentration per Run 2	-0.0002 ppm	0.0000 ppm	0.0023 ppm	-0.0070 ppm	0.0005 ppm	-0.0001 ppm	0.0024 ppm
Concentration per Run 3	-0.0012 ppm	0.0000 ppm	0.0024 ppm	-0.0093 ppm	0.0006 ppm	-0.0003 ppm	0.0042 ppm
Recovery Percentage 1	-0.520 %	0.044 %	4.634 %	-0.423 %	1.169 %	-3.897 %	7.025 %
Concentration RSD	120.6 %	1,040.6 %	4.3 %	15.3 %	158.7 %	100.9 %	28.3 %

	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	-0.0016 ppm	-0.0019 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 1	-0.0034 ppm	-0.0030 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 2	0.0001 ppm	-0.0004 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 3	-0.0014 ppm	-0.0022 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0002 ppm
Recovery Percentage 1	-15.818 %	-0.376 %	0.426 %	0.431 %	-0.589 %	-0.459 %	1.470 %
Concentration RSD	111.0 %	70.1 %	309.6 %	70.2 %	72.1 %	540.8 %	5.2 %

	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	0.0005 ppm	96.8770 %	99.7345 %	96.1658 %	100.2459 %	101.8424 %	101.5513 %
Concentration per Run 1	0.0003 ppm	95.4464 %	99.1624 %	96.2717 %	100.0448 %	101.3793 %	102.0857 %
Concentration per Run 2	0.0006 ppm	97.1054 %	99.9534 %	95.0257 %	100.5419 %	102.1356 %	100.4405 %
Concentration per Run 3	0.0007 ppm	98.0792 %	100.0878 %	97.2001 %	100.1509 %	102.0123 %	102.1277 %
Recovery Percentage 1	10.624 %						
Concentration RSD	34.9 %	1.4 %	0.5 %	1.1 %	0.3 %	0.4 %	0.9 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473015-05D2 WG2010388
Analysis started at: 12/19/2024 3:13:21 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	0.0014 ppm	30.6127 ppm	0.0710 ppm	0.0117 ppm	0.5124 ppm	0.0026 ppm	39.8516 ppm
Concentration per Run 1	0.0015 ppm	30.5639 ppm	0.0713 ppm	0.0114 ppm	0.5075 ppm	0.0026 ppm	40.0281 ppm
Concentration per Run 2	0.0014 ppm	30.8631 ppm	0.0693 ppm	0.0113 ppm	0.5172 ppm	0.0026 ppm	40.1793 ppm
Concentration per Run 3	0.0014 ppm	30.4111 ppm	0.0724 ppm	0.0123 ppm	0.5126 ppm	0.0026 ppm	39.3475 ppm
Concentration RSD	4.8 %	0.8 %	2.2 %	4.7 %	0.9 %	0.8 %	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	0.0009 ppm	0.0610 ppm	0.0664 ppm	0.1272 ppm	167.6497 ppm	2.4378 ppm	0.0602 ppm
Concentration per Run 1	0.0008 ppm	0.0616 ppm	0.0667 ppm	0.1283 ppm	167.4283 ppm	2.4418 ppm	0.0601 ppm
Concentration per Run 2	0.0009 ppm	0.0610 ppm	0.0662 ppm	0.1264 ppm	168.8574 ppm	2.4538 ppm	0.0607 ppm
Concentration per Run 3	0.0010 ppm	0.0604 ppm	0.0663 ppm	0.1270 ppm	166.6634 ppm	2.4177 ppm	0.0597 ppm
Concentration RSD	11.3 %	0.9 %	0.4 %	0.7 %	0.7 %	0.8 %	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	13.1965 ppm	5.3561 ppm	0.0078 ppm	0.8485 ppm	0.1246 ppm	0.0700 ppm	0.0065 ppm
Concentration per Run 1	13.3729 ppm	5.3768 ppm	0.0077 ppm	0.8473 ppm	0.1261 ppm	0.0711 ppm	0.0054 ppm
Concentration per Run 2	13.1235 ppm	5.3848 ppm	0.0077 ppm	0.8566 ppm	0.1244 ppm	0.0697 ppm	0.0087 ppm
Concentration per Run 3	13.0932 ppm	5.3066 ppm	0.0081 ppm	0.8417 ppm	0.1234 ppm	0.0692 ppm	0.0054 ppm
Concentration RSD	1.2 %	0.8 %	2.6 %	0.9 %	1.1 %	1.4 %	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	-0.0023 ppm	2.5279 ppm	0.0075 ppm	0.0831 ppm	0.3650 ppm	-0.0046 ppm	0.0846 ppm
Concentration per Run 1	0.0000 ppm	2.5523 ppm	0.0072 ppm	0.0826 ppm	0.3687 ppm	-0.0044 ppm	0.0860 ppm
Concentration per Run 2	-0.0029 ppm	2.5050 ppm	0.0071 ppm	0.0838 ppm	0.3631 ppm	-0.0037 ppm	0.0842 ppm
Concentration per Run 3	-0.0040 ppm	2.5265 ppm	0.0083 ppm	0.0829 ppm	0.3631 ppm	-0.0057 ppm	0.0837 ppm
Concentration RSD	89.4 %	0.9 %	8.8 %	0.8 %	0.9 %	21.7 %	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	0.3812 ppm	100.9178 %	103.6657 %	88.2168 %	110.3073 %	117.6654 %	112.4730 %
Concentration per Run 1	0.3854 ppm	100.6195 %	103.6544 %	87.9297 %	110.5591 %	117.8394 %	112.2126 %
Concentration per Run 2	0.3806 ppm	101.2840 %	103.0300 %	88.3870 %	110.7593 %	116.7186 %	112.9356 %
Concentration per Run 3	0.3777 ppm	100.8499 %	104.3127 %	88.3337 %	109.6035 %	118.4380 %	112.2707 %
Concentration RSD	1.0 %	0.3 %	0.6 %	0.3 %	0.6 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473015-06D2 WG2010388
Analysis started at: 12/19/2024 3:17:56 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	0.0026 ppm	107.1751 ppm	0.0915 ppm	0.2818 ppm	2.9811 ppm	0.0078 ppm	688.9483 ppm
Concentration per Run 1	0.0025 ppm	107.2093 ppm	0.0909 ppm	0.2837 ppm	2.9903 ppm	0.0078 ppm	689.5552 ppm
Concentration per Run 2	0.0026 ppm	107.7085 ppm	0.0908 ppm	0.2806 ppm	2.9865 ppm	0.0078 ppm	691.9394 ppm
Concentration per Run 3	0.0026 ppm	106.6075 ppm	0.0926 ppm	0.2811 ppm	2.9665 ppm	0.0077 ppm	685.3503 ppm
Concentration RSD	1.8 %	0.5 %	1.1 %	0.6 %	0.4 %	0.9 %	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	0.0074 ppm	0.0567 ppm	0.2815 ppm	0.8603 ppm	284.3320 ppm	40.7732 ppm	0.1294 ppm
Concentration per Run 1	0.0071 ppm	0.0567 ppm	0.2823 ppm	0.8699 ppm	285.3116 ppm	40.6565 ppm	0.1308 ppm
Concentration per Run 2	0.0075 ppm	0.0566 ppm	0.2817 ppm	0.8517 ppm	284.5590 ppm	41.0802 ppm	0.1292 ppm
Concentration per Run 3	0.0075 ppm	0.0568 ppm	0.2806 ppm	0.8592 ppm	283.1255 ppm	40.5828 ppm	0.1283 ppm
Concentration RSD	3.3 %	0.1 %	0.3 %	1.1 %	0.4 %	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	108.3465 ppm	9.9931 ppm	0.0345 ppm	17.0637 ppm	0.2307 ppm	0.6151 ppm	0.0222 ppm
Concentration per Run 1	108.5939 ppm	10.0069 ppm	0.0344 ppm	16.9485 ppm	0.2321 ppm	0.6169 ppm	0.0222 ppm
Concentration per Run 2	108.7782 ppm	10.0188 ppm	0.0347 ppm	17.1747 ppm	0.2301 ppm	0.6119 ppm	0.0240 ppm
Concentration per Run 3	107.6673 ppm	9.9536 ppm	0.0344 ppm	17.0678 ppm	0.2300 ppm	0.6166 ppm	0.0203 ppm
Concentration RSD	0.5 %	0.3 %	0.4 %	0.7 %	0.5 %	0.5 %	8.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0026 ppm	12.9135 ppm	0.1478 ppm	1.8303 ppm	6.8196 ppm	-0.0033 ppm	0.2067 ppm
Concentration per Run 1	-0.0037 ppm	13.0334 ppm	0.1494 ppm	1.8349 ppm	6.8588 ppm	-0.0034 ppm	0.2078 ppm
Concentration per Run 2	-0.0027 ppm	12.8712 ppm	0.1461 ppm	1.8351 ppm	6.8095 ppm	-0.0026 ppm	0.2064 ppm
Concentration per Run 3	-0.0015 ppm	12.8359 ppm	0.1479 ppm	1.8209 ppm	6.7906 ppm	-0.0038 ppm	0.2060 ppm
Concentration RSD	42.0 %	0.8 %	1.1 %	0.4 %	0.5 %	19.0 %	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	1.4419 ppm	89.6272 %	98.9009 %	59.7430 %	103.0389 %	118.7172 %	103.4267 %
Concentration per Run 1	1.4408 ppm	89.3127 %	99.2836 %	59.4017 %	102.9190 %	119.5220 %	103.0268 %
Concentration per Run 2	1.4494 ppm	89.7385 %	98.6904 %	59.9957 %	103.3618 %	118.1384 %	103.8097 %
Concentration per Run 3	1.4354 ppm	89.8305 %	98.7289 %	59.8317 %	102.8360 %	118.4913 %	103.4434 %
Concentration RSD	0.5 %	0.3 %	0.3 %	0.5 %	0.3 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473015-07D2 WG2010388
Analysis started at: 12/19/2024 3:22:23 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	0.0015 ppm	29.4038 ppm	0.0859 ppm	0.0143 ppm	0.3126 ppm	0.0037 ppm	88.2888 ppm
Concentration per Run 1	0.0019 ppm	29.2985 ppm	0.0849 ppm	0.0147 ppm	0.3133 ppm	0.0037 ppm	88.3610 ppm
Concentration per Run 2	0.0015 ppm	29.4751 ppm	0.0861 ppm	0.0151 ppm	0.3121 ppm	0.0037 ppm	88.1775 ppm
Concentration per Run 3	0.0011 ppm	29.4377 ppm	0.0868 ppm	0.0130 ppm	0.3123 ppm	0.0037 ppm	88.3281 ppm
Concentration RSD	25.7 %	0.3 %	1.2 %	8.0 %	0.2 %	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	0.0009 ppm	0.0723 ppm	0.0778 ppm	0.1245 ppm	219.1745 ppm	2.4458 ppm	0.0525 ppm
Concentration per Run 1	0.0011 ppm	0.0726 ppm	0.0783 ppm	0.1257 ppm	219.4684 ppm	2.4399 ppm	0.0518 ppm
Concentration per Run 2	0.0008 ppm	0.0726 ppm	0.0782 ppm	0.1248 ppm	219.0887 ppm	2.4618 ppm	0.0529 ppm
Concentration per Run 3	0.0008 ppm	0.0716 ppm	0.0768 ppm	0.1231 ppm	218.9663 ppm	2.4355 ppm	0.0528 ppm
Concentration RSD	19.0 %	0.8 %	1.1 %	1.0 %	0.1 %	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	21.8273 ppm	8.1783 ppm	0.0124 ppm	0.5177 ppm	0.1316 ppm	0.0811 ppm	0.0054 ppm
Concentration per Run 1	22.0151 ppm	8.1804 ppm	0.0123 ppm	0.5164 ppm	0.1331 ppm	0.0815 ppm	0.0062 ppm
Concentration per Run 2	21.8935 ppm	8.1723 ppm	0.0128 ppm	0.5217 ppm	0.1319 ppm	0.0822 ppm	0.0039 ppm
Concentration per Run 3	21.5733 ppm	8.1821 ppm	0.0122 ppm	0.5151 ppm	0.1299 ppm	0.0796 ppm	0.0061 ppm
Concentration RSD	1.0 %	0.1 %	2.4 %	0.7 %	1.2 %	1.7 %	24.2 %

	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	-0.0028 ppm	3.1239 ppm	0.0040 ppm	0.1470 ppm	0.3948 ppm	-0.0069 ppm	0.1635 ppm
Concentration per Run 1	-0.0006 ppm	3.1850 ppm	0.0045 ppm	0.1469 ppm	0.4004 ppm	-0.0062 ppm	0.1642 ppm
Concentration per Run 2	-0.0023 ppm	3.1356 ppm	0.0040 ppm	0.1470 ppm	0.3945 ppm	-0.0076 ppm	0.1634 ppm
Concentration per Run 3	-0.0055 ppm	3.0510 ppm	0.0036 ppm	0.1471 ppm	0.3895 ppm	-0.0068 ppm	0.1629 ppm
Concentration RSD	89.6 %	2.2 %	11.2 %	0.1 %	1.4 %	10.3 %	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	0.4332 ppm	100.0931 %	103.4658 %	84.5566 %	112.3601 %	120.7143 %	113.5863 %
Concentration per Run 1	0.4345 ppm	99.6610 %	103.5206 %	84.3478 %	112.1298 %	120.5194 %	113.8826 %
Concentration per Run 2	0.4364 ppm	99.6141 %	103.7825 %	84.7402 %	111.8537 %	121.1067 %	113.7076 %
Concentration per Run 3	0.4286 ppm	101.0041 %	103.0941 %	84.5818 %	113.0968 %	120.5168 %	113.1686 %
Concentration RSD	0.9 %	0.8 %	0.3 %	0.2 %	0.6 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473015-08D2 WG2010388
Analysis started at: 12/19/2024 3:26:50 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	0.0015 ppm	33.4251 ppm	0.0510 ppm	0.1485 ppm	1.2789 ppm	0.0078 ppm	30.9467 ppm
Concentration per Run 1	0.0017 ppm	33.4686 ppm	0.0531 ppm	0.1494 ppm	1.2820 ppm	0.0077 ppm	30.8411 ppm
Concentration per Run 2	0.0014 ppm	33.6398 ppm	0.0504 ppm	0.1462 ppm	1.2757 ppm	0.0079 ppm	31.0780 ppm
Concentration per Run 3	0.0016 ppm	33.1668 ppm	0.0495 ppm	0.1500 ppm	1.2790 ppm	0.0078 ppm	30.9210 ppm
Concentration RSD	10.6 %	0.7 %	3.6 %	1.4 %	0.2 %	0.8 %	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	0.0013 ppm	0.0243 ppm	0.0932 ppm	0.1876 ppm	267.1669 ppm	5.0223 ppm	0.0565 ppm
Concentration per Run 1	0.0012 ppm	0.0245 ppm	0.0936 ppm	0.1880 ppm	266.7677 ppm	5.0655 ppm	0.0576 ppm
Concentration per Run 2	0.0015 ppm	0.0241 ppm	0.0926 ppm	0.1871 ppm	267.0443 ppm	5.0375 ppm	0.0567 ppm
Concentration per Run 3	0.0012 ppm	0.0243 ppm	0.0933 ppm	0.1878 ppm	267.6887 ppm	4.9639 ppm	0.0553 ppm
Concentration RSD	12.7 %	0.9 %	0.6 %	0.2 %	0.2 %	1.0 %	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	2.7986 ppm	1.0939 ppm	0.0261 ppm	0.9654 ppm	0.0973 ppm	0.2383 ppm	0.0042 ppm
Concentration per Run 1	2.8247 ppm	1.0924 ppm	0.0260 ppm	0.9659 ppm	0.0984 ppm	0.2387 ppm	0.0040 ppm
Concentration per Run 2	2.7758 ppm	1.0975 ppm	0.0259 ppm	0.9753 ppm	0.0974 ppm	0.2379 ppm	0.0052 ppm
Concentration per Run 3	2.7952 ppm	1.0918 ppm	0.0265 ppm	0.9550 ppm	0.0962 ppm	0.2382 ppm	0.0033 ppm
Concentration RSD	0.9 %	0.3 %	1.3 %	1.1 %	1.1 %	0.2 %	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	0.0035 ppm	2.9808 ppm	0.0044 ppm	0.3136 ppm	1.7887 ppm	0.0019 ppm	0.1130 ppm
Concentration per Run 1	0.0017 ppm	3.0061 ppm	0.0043 ppm	0.3143 ppm	1.8022 ppm	0.0020 ppm	0.1134 ppm
Concentration per Run 2	0.0046 ppm	2.9706 ppm	0.0047 ppm	0.3132 ppm	1.7773 ppm	0.0021 ppm	0.1126 ppm
Concentration per Run 3	0.0041 ppm	2.9657 ppm	0.0042 ppm	0.3132 ppm	1.7865 ppm	0.0017 ppm	0.1130 ppm
Concentration RSD	44.5 %	0.7 %	6.6 %	0.2 %	0.7 %	11.3 %	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	0.1479 ppm	102.7604 %	105.3390 %	83.8655 %	107.5395 %	114.8178 %	107.0106 %
Concentration per Run 1	0.1497 ppm	102.2207 %	105.8531 %	83.7545 %	107.7400 %	115.4399 %	107.1849 %
Concentration per Run 2	0.1463 ppm	103.2576 %	105.0527 %	83.7912 %	107.6977 %	114.2926 %	106.5560 %
Concentration per Run 3	0.1477 ppm	102.8028 %	105.1113 %	84.0508 %	107.1810 %	114.7209 %	107.2910 %
Concentration RSD	1.2 %	0.5 %	0.4 %	0.2 %	0.3 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473015-09D2 WG2010388
Analysis started at: 12/19/2024 3:31:16 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	0.0025 ppm	56.7660 ppm	0.0809 ppm	0.0594 ppm	0.7423 ppm	0.0069 ppm	22.0154 ppm
Concentration per Run 1	0.0027 ppm	56.9178 ppm	0.0802 ppm	0.0605 ppm	0.7480 ppm	0.0070 ppm	22.1913 ppm
Concentration per Run 2	0.0023 ppm	56.6662 ppm	0.0819 ppm	0.0589 ppm	0.7378 ppm	0.0068 ppm	21.9403 ppm
Concentration per Run 3	0.0025 ppm	56.7139 ppm	0.0806 ppm	0.0587 ppm	0.7411 ppm	0.0068 ppm	21.9147 ppm
Concentration RSD	7.7 %	0.2 %	1.1 %	1.7 %	0.7 %	1.2 %	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	0.0042 ppm	0.0850 ppm	0.1490 ppm	0.2091 ppm	229.8609 ppm	5.6051 ppm	0.0880 ppm
Concentration per Run 1	0.0041 ppm	0.0856 ppm	0.1509 ppm	0.2101 ppm	231.5771 ppm	5.5812 ppm	0.0883 ppm
Concentration per Run 2	0.0042 ppm	0.0851 ppm	0.1483 ppm	0.2086 ppm	229.1650 ppm	5.6020 ppm	0.0878 ppm
Concentration per Run 3	0.0042 ppm	0.0844 ppm	0.1476 ppm	0.2087 ppm	228.8406 ppm	5.6320 ppm	0.0879 ppm
Concentration RSD	0.3 %	0.7 %	1.2 %	0.4 %	0.7 %	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	14.3543 ppm	5.1381 ppm	0.0177 ppm	2.4679 ppm	0.2233 ppm	0.1758 ppm	0.0070 ppm
Concentration per Run 1	14.5055 ppm	5.1763 ppm	0.0177 ppm	2.4446 ppm	0.2258 ppm	0.1768 ppm	0.0101 ppm
Concentration per Run 2	14.3564 ppm	5.1275 ppm	0.0177 ppm	2.4753 ppm	0.2228 ppm	0.1773 ppm	0.0057 ppm
Concentration per Run 3	14.2011 ppm	5.1106 ppm	0.0177 ppm	2.4839 ppm	0.2213 ppm	0.1732 ppm	0.0053 ppm
Concentration RSD	1.1 %	0.7 %	0.1 %	0.8 %	1.0 %	1.3 %	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	-0.0004 ppm	3.2780 ppm	0.0140 ppm	0.1279 ppm	0.5459 ppm	-0.0022 ppm	0.1342 ppm
Concentration per Run 1	-0.0002 ppm	3.3297 ppm	0.0140 ppm	0.1287 ppm	0.5531 ppm	-0.0016 ppm	0.1353 ppm
Concentration per Run 2	0.0004 ppm	3.2684 ppm	0.0143 ppm	0.1275 ppm	0.5475 ppm	-0.0034 ppm	0.1340 ppm
Concentration per Run 3	-0.0014 ppm	3.2359 ppm	0.0137 ppm	0.1276 ppm	0.5372 ppm	-0.0015 ppm	0.1333 ppm
Concentration RSD	225.8 %	1.5 %	2.0 %	0.5 %	1.5 %	48.9 %	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	0.9060 ppm	102.3111 %	105.7673 %	85.9826 %	120.5855 %	128.9459 %	121.0201 %
Concentration per Run 1	0.9175 ppm	101.9541 %	105.3914 %	85.9139 %	120.6362 %	128.6222 %	121.2520 %
Concentration per Run 2	0.9038 ppm	102.2003 %	106.0699 %	85.7759 %	120.4168 %	128.8494 %	120.5995 %
Concentration per Run 3	0.8966 ppm	102.7789 %	105.8408 %	86.2581 %	120.7037 %	129.3661 %	121.2089 %
Concentration RSD	1.2 %	0.4 %	0.3 %	0.3 %	0.1 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473015-10D2 WG2010388
Analysis started at: 12/19/2024 3:35:42 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	0.0012 ppm	36.2091 ppm	0.0735 ppm	0.0084 ppm	0.3147 ppm	0.0031 ppm	36.2470 ppm
Concentration per Run 1	0.0011 ppm	36.2936 ppm	0.0723 ppm	0.0080 ppm	0.3158 ppm	0.0032 ppm	36.1111 ppm
Concentration per Run 2	0.0013 ppm	36.1709 ppm	0.0735 ppm	0.0087 ppm	0.3129 ppm	0.0031 ppm	36.1874 ppm
Concentration per Run 3	0.0012 ppm	36.1629 ppm	0.0746 ppm	0.0085 ppm	0.3154 ppm	0.0031 ppm	36.4426 ppm
Concentration RSD	8.4 %	0.2 %	1.5 %	3.9 %	0.5 %	1.2 %	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	0.0011 ppm	0.0805 ppm	0.0762 ppm	0.1577 ppm	183.7967 ppm	2.8103 ppm	0.0706 ppm
Concentration per Run 1	0.0011 ppm	0.0817 ppm	0.0769 ppm	0.1583 ppm	183.5708 ppm	2.8332 ppm	0.0713 ppm
Concentration per Run 2	0.0011 ppm	0.0803 ppm	0.0764 ppm	0.1595 ppm	183.1981 ppm	2.7972 ppm	0.0697 ppm
Concentration per Run 3	0.0010 ppm	0.0795 ppm	0.0751 ppm	0.1553 ppm	184.6213 ppm	2.8004 ppm	0.0710 ppm
Concentration RSD	3.2 %	1.4 %	1.2 %	1.4 %	0.4 %	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	18.2158 ppm	5.0187 ppm	0.0080 ppm	0.4082 ppm	0.1603 ppm	0.0729 ppm	0.0051 ppm
Concentration per Run 1	18.4632 ppm	5.0017 ppm	0.0082 ppm	0.4114 ppm	0.1623 ppm	0.0743 ppm	0.0062 ppm
Concentration per Run 2	18.1975 ppm	5.0103 ppm	0.0077 ppm	0.4091 ppm	0.1598 ppm	0.0730 ppm	0.0045 ppm
Concentration per Run 3	17.9867 ppm	5.0440 ppm	0.0081 ppm	0.4040 ppm	0.1587 ppm	0.0713 ppm	0.0045 ppm
Concentration RSD	1.3 %	0.4 %	3.3 %	0.9 %	1.1 %	2.0 %	19.5 %

	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	2.6908 ppm	0.0032 ppm	0.0656 ppm	0.4007 ppm	-0.0043 ppm	0.0940 ppm
Concentration per Run 1	-0.0015 ppm	2.7169 ppm	0.0030 ppm	0.0657 ppm	0.4077 ppm	-0.0037 ppm	0.0954 ppm
Concentration per Run 2	-0.0007 ppm	2.7102 ppm	0.0033 ppm	0.0653 ppm	0.4014 ppm	-0.0047 ppm	0.0941 ppm
Concentration per Run 3	-0.0040 ppm	2.6452 ppm	0.0031 ppm	0.0657 ppm	0.3931 ppm	-0.0045 ppm	0.0926 ppm
Concentration RSD	81.6 %	1.5 %	4.7 %	0.4 %	1.8 %	13.1 %	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	0.4224 ppm	101.7632 %	105.2220 %	88.2012 %	115.1818 %	122.7721 %	116.8829 %
Concentration per Run 1	0.4313 ppm	100.6496 %	105.9019 %	88.5981 %	114.7718 %	122.9561 %	117.2976 %
Concentration per Run 2	0.4201 ppm	102.0183 %	105.1529 %	88.0941 %	115.4596 %	122.9448 %	116.9584 %
Concentration per Run 3	0.4159 ppm	102.6217 %	104.6112 %	87.9113 %	115.3140 %	122.4156 %	116.3927 %
Concentration RSD	1.9 %	1.0 %	0.6 %	0.4 %	0.3 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473015-11D2 WG2010388
Analysis started at: 12/19/2024 3:40:09 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	0.0004 ppm	210.2770 ppm	0.0668 ppm	0.4973 ppm	4.5969 ppm	0.0074 ppm	960.2855 ppm
Concentration per Run 1	0.0002 ppm	210.1579 ppm	0.0672 ppm	0.4987 ppm	4.5994 ppm	0.0074 ppm	965.0890 ppm
Concentration per Run 2	0.0004 ppm	210.9456 ppm	0.0655 ppm	0.4938 ppm	4.5931 ppm	0.0075 ppm	957.4608 ppm
Concentration per Run 3	0.0007 ppm	209.7274 ppm	0.0675 ppm	0.4993 ppm	4.5982 ppm	0.0074 ppm	958.3066 ppm
Concentration RSD	64.9 %	0.3 %	1.6 %	0.6 %	0.1 %	0.8 %	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	-0.0005 ppm	0.1153 ppm	0.5411 ppm	1.0950 ppm	212.3392 ppm	83.5300 ppm	0.1461 ppm
Concentration per Run 1	-0.0007 ppm	0.1170 ppm	0.5444 ppm	1.0937 ppm	212.5314 ppm	82.8273 ppm	0.1448 ppm
Concentration per Run 2	-0.0006 ppm	0.1147 ppm	0.5397 ppm	1.0938 ppm	212.2435 ppm	84.1273 ppm	0.1486 ppm
Concentration per Run 3	-0.0003 ppm	0.1141 ppm	0.5393 ppm	1.0976 ppm	212.2427 ppm	83.6353 ppm	0.1448 ppm
Concentration RSD	40.6 %	1.3 %	0.5 %	0.2 %	0.1 %	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	137.2591 ppm	14.9941 ppm	0.0314 ppm	31.1577 ppm	0.7031 ppm	0.4560 ppm	0.0287 ppm
Concentration per Run 1	138.6977 ppm	15.0532 ppm	0.0325 ppm	30.9498 ppm	0.7077 ppm	0.4599 ppm	0.0275 ppm
Concentration per Run 2	136.4985 ppm	14.9574 ppm	0.0308 ppm	31.4859 ppm	0.7025 ppm	0.4519 ppm	0.0271 ppm
Concentration per Run 3	136.5810 ppm	14.9717 ppm	0.0309 ppm	31.0374 ppm	0.6990 ppm	0.4561 ppm	0.0315 ppm
Concentration RSD	0.9 %	0.3 %	3.0 %	0.9 %	0.6 %	0.9 %	8.5 %

	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	71.1963 [SIC 100]	0.5333 ppm	2.3704 ppm	13.4415 ppm	-0.0025 ppm	0.2700 ppm
Concentration per Run 1	-0.0055 ppm	71.4753 ppm	0.5419 ppm	2.3668 ppm	13.4998 ppm	-0.0017 ppm	0.2732 ppm
Concentration per Run 2	-0.0051 ppm	71.1982 ppm	0.5291 ppm	2.3739 ppm	13.4258 ppm	-0.0018 ppm	0.2687 ppm
Concentration per Run 3	-0.0035 ppm	70.9154 ppm	0.5289 ppm	2.3704 ppm	13.3990 ppm	-0.0041 ppm	0.2682 ppm
Concentration RSD	22.9 %	0.4 %	1.4 %	0.2 %	0.4 %	54.2 %	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	1.3243 ppm	87.8600 %	97.6397 %	46.9841 %	101.2634 %	118.0265 %	102.5812 %
Concentration per Run 1	1.3418 ppm	87.5984 %	97.4821 %	45.9396 %	101.2726 %	118.2019 %	102.4083 %
Concentration per Run 2	1.3175 ppm	87.8633 %	97.9666 %	47.6955 %	101.1365 %	118.1844 %	102.8800 %
Concentration per Run 3	1.3135 ppm	88.1182 %	97.4705 %	47.3174 %	101.3812 %	117.6931 %	102.4552 %
Concentration RSD	1.2 %	0.3 %	0.3 %	2.0 %	0.1 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473015-12D2 WG2010388
Analysis started at: 12/19/2024 3:44:35 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	0.0017 ppm	47.6944 ppm	0.0731 ppm	0.1014 ppm	0.9860 ppm	0.0058 ppm	81.2020 ppm
Concentration per Run 1	0.0017 ppm	47.7594 ppm	0.0737 ppm	0.1032 ppm	0.9903 ppm	0.0059 ppm	80.6792 ppm
Concentration per Run 2	0.0018 ppm	48.0021 ppm	0.0724 ppm	0.1003 ppm	0.9863 ppm	0.0058 ppm	81.8400 ppm
Concentration per Run 3	0.0016 ppm	47.3218 ppm	0.0733 ppm	0.1006 ppm	0.9813 ppm	0.0058 ppm	81.0868 ppm
Concentration RSD	4.4 %	0.7 %	0.9 %	1.6 %	0.5 %	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	0.0016 ppm	0.0587 ppm	0.1579 ppm	0.2482 ppm	231.2677 ppm	9.7501 ppm	0.0634 ppm
Concentration per Run 1	0.0016 ppm	0.0588 ppm	0.1585 ppm	0.2506 ppm	230.6034 ppm	9.8446 ppm	0.0637 ppm
Concentration per Run 2	0.0016 ppm	0.0584 ppm	0.1572 ppm	0.2466 ppm	232.5185 ppm	9.7711 ppm	0.0641 ppm
Concentration per Run 3	0.0016 ppm	0.0589 ppm	0.1581 ppm	0.2473 ppm	230.6813 ppm	9.6345 ppm	0.0625 ppm
Concentration RSD	0.3 %	0.4 %	0.4 %	0.9 %	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	17.0586 ppm	6.2839 ppm	0.0275 ppm	9.1853 ppm	0.1400 ppm	0.1139 ppm	0.0083 ppm
Concentration per Run 1	17.0861 ppm	6.2593 ppm	0.0274 ppm	9.2560 ppm	0.1400 ppm	0.1135 ppm	0.0070 ppm
Concentration per Run 2	17.0976 ppm	6.3299 ppm	0.0276 ppm	9.2599 ppm	0.1394 ppm	0.1136 ppm	0.0076 ppm
Concentration per Run 3	16.9921 ppm	6.2626 ppm	0.0276 ppm	9.0400 ppm	0.1405 ppm	0.1146 ppm	0.0102 ppm
Concentration RSD	0.3 %	0.6 %	0.3 %	1.4 %	0.4 %	0.5 %	21.1 %

	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	-0.0023 ppm	8.0774 ppm	0.0463 ppm	0.3267 ppm	1.8803 ppm	-0.0035 ppm	0.1058 ppm
Concentration per Run 1	-0.0022 ppm	8.1664 ppm	0.0460 ppm	0.3273 ppm	1.8876 ppm	-0.0041 ppm	0.1063 ppm
Concentration per Run 2	-0.0038 ppm	8.0302 ppm	0.0458 ppm	0.3278 ppm	1.8840 ppm	-0.0038 ppm	0.1058 ppm
Concentration per Run 3	-0.0010 ppm	8.0357 ppm	0.0470 ppm	0.3250 ppm	1.8693 ppm	-0.0027 ppm	0.1053 ppm
Concentration RSD	62.0 %	1.0 %	1.4 %	0.4 %	0.5 %	21.3 %	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	0.5282 ppm	100.6431 %	103.9523 %	81.3318 %	113.6111 %	121.8147 %	114.2247 %
Concentration per Run 1	0.5267 ppm	100.7671 %	104.9666 %	81.1060 %	114.3533 %	122.8438 %	114.5012 %
Concentration per Run 2	0.5304 ppm	100.6602 %	103.2053 %	81.5340 %	113.5263 %	120.8742 %	114.3340 %
Concentration per Run 3	0.5277 ppm	100.5022 %	103.6851 %	81.3556 %	112.9538 %	121.7263 %	113.8388 %
Concentration RSD	0.4 %	0.1 %	0.9 %	0.3 %	0.6 %	0.8 %	0.3 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473015-13D2 WG2010388
Analysis started at: 12/19/2024 3:49:01 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	0.0018 ppm	60.1466 ppm	0.2913 ppm	0.1403 ppm	1.3063 ppm	0.0109 ppm	9.2595 ppm
Concentration per Run 1	0.0014 ppm	60.5150 ppm	0.2889 ppm	0.1412 ppm	1.3132 ppm	0.0110 ppm	9.3378 ppm
Concentration per Run 2	0.0018 ppm	60.0014 ppm	0.2923 ppm	0.1405 ppm	1.3067 ppm	0.0108 ppm	9.1751 ppm
Concentration per Run 3	0.0023 ppm	59.9232 ppm	0.2926 ppm	0.1392 ppm	1.2990 ppm	0.0109 ppm	9.2657 ppm
Concentration RSD	24.3 %	0.5 %	0.7 %	0.7 %	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	0.0019 ppm	0.0450 ppm	0.1454 ppm	0.3422 ppm	494.7085 [SIC 500]	9.6139 ppm	0.0617 ppm
Concentration per Run 1	0.0021 ppm	0.0452 ppm	0.1451 ppm	0.3451 ppm	499.1368 ppm	9.6534 ppm	0.0625 ppm
Concentration per Run 2	0.0020 ppm	0.0450 ppm	0.1464 ppm	0.3433 ppm	491.8529 ppm	9.6637 ppm	0.0613 ppm
Concentration per Run 3	0.0016 ppm	0.0449 ppm	0.1448 ppm	0.3383 ppm	493.1359 ppm	9.5245 ppm	0.0612 ppm
Concentration RSD	12.5 %	0.4 %	0.6 %	1.0 %	0.8 %	0.8 %	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	2.9917 ppm	0.7435 ppm	0.0803 ppm	1.1344 ppm	0.1591 ppm	0.1916 ppm	0.0106 ppm
Concentration per Run 1	2.9984 ppm	0.7485 ppm	0.0795 ppm	1.1386 ppm	0.1585 ppm	0.1928 ppm	0.0116 ppm
Concentration per Run 2	3.0059 ppm	0.7388 ppm	0.0813 ppm	1.1353 ppm	0.1601 ppm	0.1898 ppm	0.0098 ppm
Concentration per Run 3	2.9708 ppm	0.7431 ppm	0.0802 ppm	1.1292 ppm	0.1588 ppm	0.1923 ppm	0.0105 ppm
Concentration RSD	0.6 %	0.7 %	1.1 %	0.4 %	0.5 %	0.8 %	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	0.0053 ppm	2.4801 ppm	0.0099 ppm	0.8806 ppm	4.8427 ppm	0.0119 ppm	0.2822 ppm
Concentration per Run 1	0.0041 ppm	2.5001 ppm	0.0090 ppm	0.8862 ppm	4.8673 ppm	0.0110 ppm	0.2841 ppm
Concentration per Run 2	0.0057 ppm	2.5027 ppm	0.0112 ppm	0.8808 ppm	4.8555 ppm	0.0126 ppm	0.2815 ppm
Concentration per Run 3	0.0062 ppm	2.4375 ppm	0.0094 ppm	0.8748 ppm	4.8054 ppm	0.0121 ppm	0.2811 ppm
Concentration RSD	20.8 %	1.5 %	12.2 %	0.6 %	0.7 %	7.1 %	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	0.2349 ppm	104.5023 %	107.2715 %	77.3105 %	110.0904 %	118.0373 %	111.8419 %
Concentration per Run 1	0.2328 ppm	104.6927 %	106.9514 %	77.0716 %	110.6487 %	117.9994 %	111.9333 %
Concentration per Run 2	0.2379 ppm	103.9993 %	108.1908 %	77.6432 %	109.5330 %	119.0031 %	111.9076 %
Concentration per Run 3	0.2340 ppm	104.8150 %	106.6724 %	77.2168 %	110.0897 %	117.1093 %	111.6847 %
Concentration RSD	1.1 %	0.4 %	0.8 %	0.4 %	0.5 %	0.8 %	0.1 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473015-14D2 WG2010388
Analysis started at: 12/19/2024 3:53:27 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	0.0009 ppm	17.2428 ppm	0.0447 ppm	0.0064 ppm	0.1258 ppm	0.0026 ppm	3.0674 ppm
Concentration per Run 1	0.0009 ppm	17.2822 ppm	0.0464 ppm	0.0067 ppm	0.1258 ppm	0.0026 ppm	3.0827 ppm
Concentration per Run 2	0.0010 ppm	17.2139 ppm	0.0430 ppm	0.0061 ppm	0.1251 ppm	0.0026 ppm	3.0469 ppm
Concentration per Run 3	0.0009 ppm	17.2324 ppm	0.0448 ppm	0.0064 ppm	0.1266 ppm	0.0026 ppm	3.0726 ppm
Concentration RSD	9.8 %	0.2 %	3.9 %	4.4 %	0.6 %	1.3 %	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	0.0004 ppm	0.0254 ppm	0.0452 ppm	0.0624 ppm	123.6174 ppm	1.7268 ppm	0.0271 ppm
Concentration per Run 1	0.0004 ppm	0.0255 ppm	0.0456 ppm	0.0629 ppm	124.3501 ppm	1.7469 ppm	0.0274 ppm
Concentration per Run 2	0.0003 ppm	0.0261 ppm	0.0452 ppm	0.0625 ppm	122.6112 ppm	1.7317 ppm	0.0266 ppm
Concentration per Run 3	0.0004 ppm	0.0247 ppm	0.0449 ppm	0.0617 ppm	123.8909 ppm	1.7017 ppm	0.0272 ppm
Concentration RSD	23.1 %	2.7 %	0.8 %	0.9 %	0.7 %	1.3 %	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	6.6406 ppm	0.9282 ppm	0.0036 ppm	0.3012 ppm	0.0641 ppm	0.0536 ppm	0.0039 ppm
Concentration per Run 1	6.6419 ppm	0.9324 ppm	0.0036 ppm	0.3001 ppm	0.0639 ppm	0.0551 ppm	0.0044 ppm
Concentration per Run 2	6.6902 ppm	0.9217 ppm	0.0037 ppm	0.3042 ppm	0.0649 ppm	0.0533 ppm	0.0030 ppm
Concentration per Run 3	6.5896 ppm	0.9304 ppm	0.0035 ppm	0.2995 ppm	0.0637 ppm	0.0523 ppm	0.0043 ppm
Concentration RSD	0.8 %	0.6 %	1.9 %	0.9 %	1.0 %	2.6 %	19.8 %

	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	-0.0005 ppm	1.9614 ppm	0.0020 ppm	0.0174 ppm	0.3615 ppm	-0.0003 ppm	0.0609 ppm
Concentration per Run 1	-0.0012 ppm	1.9933 ppm	0.0011 ppm	0.0174 ppm	0.3630 ppm	-0.0002 ppm	0.0611 ppm
Concentration per Run 2	0.0003 ppm	1.9609 ppm	0.0023 ppm	0.0175 ppm	0.3636 ppm	-0.0002 ppm	0.0610 ppm
Concentration per Run 3	-0.0005 ppm	1.9299 ppm	0.0026 ppm	0.0174 ppm	0.3580 ppm	-0.0006 ppm	0.0607 ppm
Concentration RSD	166.9 %	1.6 %	38.4 %	0.2 %	0.8 %	61.7 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2299 ppm	102.7635 %	103.8789 %	94.2402 %	102.4735 %	106.8428 %	106.3058 %
Concentration per Run 1	0.2311 ppm	102.9749 %	103.3398 %	92.6311 %	102.8404 %	105.9988 %	105.1578 %
Concentration per Run 2	0.2317 ppm	102.0491 %	104.9393 %	95.4731 %	101.7427 %	107.9098 %	107.4522 %
Concentration per Run 3	0.2268 ppm	103.2665 %	103.3574 %	94.6164 %	102.8375 %	106.6199 %	106.3074 %
Concentration RSD	1.2 %	0.6 %	0.9 %	1.5 %	0.6 %	0.9 %	1.1 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: CCV
Analysis started at: 12/19/2024 3:57:54 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	0.5021 ppm	0.4946 ppm	0.4807 ppm	0.5004 ppm	0.4897 ppm	0.5194 ppm	0.5204 ppm
Concentration per Run 1	0.5055 ppm	0.4958 ppm	0.4791 ppm	0.5019 ppm	0.4917 ppm	0.5214 ppm	0.5234 ppm
Concentration per Run 2	0.5032 ppm	0.4918 ppm	0.4822 ppm	0.5020 ppm	0.4865 ppm	0.5171 ppm	0.5182 ppm
Concentration per Run 3	0.4977 ppm	0.4963 ppm	0.4808 ppm	0.4972 ppm	0.4909 ppm	0.5198 ppm	0.5195 ppm
Recovery Percentage 1	100.427 %	98.926 %	96.141 %	100.073 %	97.939 %	103.885 %	104.079 %
Concentration RSD	0.8 %	0.5 %	0.3 %	0.5 %	0.6 %	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	0.5111 ppm	0.5261 ppm	0.5062 ppm	0.4995 ppm	0.5438 ppm	5.1231 ppm	0.4912 ppm
Concentration per Run 1	0.5139 ppm	0.5289 ppm	0.5101 ppm	0.5025 ppm	0.5498 ppm	5.1406 ppm	0.4928 ppm
Concentration per Run 2	0.5113 ppm	0.5265 ppm	0.5068 ppm	0.5004 ppm	0.5393 ppm	5.0808 ppm	0.4865 ppm
Concentration per Run 3	0.5081 ppm	0.5230 ppm	0.5018 ppm	0.4957 ppm	0.5424 ppm	5.1479 ppm	0.4942 ppm
Recovery Percentage 1	102.218 %	105.220 %	101.246 %	99.903 %	108.768 %	102.462 %	98.240 %
Concentration RSD	0.6 %	0.6 %	0.8 %	0.7 %	1.0 %	0.7 %	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	0.5194 ppm	0.5078 ppm	0.5096 ppm	10.0529 ppm	0.5231 ppm	0.4922 ppm	0.5111 ppm
Concentration per Run 1	0.5232 ppm	0.5102 ppm	0.5097 ppm	9.9953 ppm	0.5288 ppm	0.4941 ppm	0.5139 ppm
Concentration per Run 2	0.5178 ppm	0.5045 ppm	0.5096 ppm	10.0261 ppm	0.5229 ppm	0.4949 ppm	0.5133 ppm
Concentration per Run 3	0.5173 ppm	0.5087 ppm	0.5095 ppm	10.1371 ppm	0.5177 ppm	0.4876 ppm	0.5063 ppm
Recovery Percentage 1	103.884 %	101.562 %	101.917 %	100.529 %	104.629 %	98.445 %	102.228 %
Concentration RSD	0.6 %	0.6 %	0.0 %	0.7 %	1.1 %	0.8 %	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	0.4873 ppm	5.6405 ppm	0.5399 ppm	0.5205 ppm	0.5104 ppm	0.4871 ppm	0.5058 ppm
Concentration per Run 1	0.4860 ppm	5.6786 ppm	0.5434 ppm	0.5226 ppm	0.5132 ppm	0.4886 ppm	0.5084 ppm
Concentration per Run 2	0.4866 ppm	5.6533 ppm	0.5425 ppm	0.5162 ppm	0.5114 ppm	0.4863 ppm	0.5052 ppm
Concentration per Run 3	0.4894 ppm	5.5895 ppm	0.5337 ppm	0.5226 ppm	0.5068 ppm	0.4865 ppm	0.5037 ppm
Recovery Percentage 1	97.460 %	107.437 %	107.971 %	104.092 %	102.089 %	97.423 %	101.151 %
Concentration RSD	0.4 %	0.8 %	1.0 %	0.7 %	0.6 %	0.3 %	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	0.5175 ppm	101.4574 %	101.9335 %	96.2125 %	97.8972 %	100.8669 %	99.8476 %
Concentration per Run 1	0.5223 ppm	101.0931 %	101.5365 %	96.2092 %	98.5388 %	100.6642 %	100.3896 %
Concentration per Run 2	0.5181 ppm	101.7653 %	102.1308 %	95.4152 %	97.5627 %	100.7554 %	98.9745 %
Concentration per Run 3	0.5121 ppm	101.5139 %	102.1332 %	97.0130 %	97.5901 %	101.1812 %	100.1787 %
Recovery Percentage 1	103.497 %						
Concentration RSD	1.0 %	0.3 %	0.3 %	0.8 %	0.6 %	0.3 %	0.8 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: CCB
Analysis started at: 12/19/2024 4:02:20 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	-0.0007 ppm	0.0010 ppm	0.0008 ppm	0.0000 ppm	0.0001 ppm	0.0009 ppm
Concentration per Run 1	0.0003 ppm	0.0015 ppm	0.0005 ppm	0.0010 ppm	0.0000 ppm	0.0001 ppm	-0.0005 ppm
Concentration per Run 2	0.0003 ppm	-0.0011 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0013 ppm
Concentration per Run 3	0.0003 ppm	-0.0025 ppm	0.0011 ppm	0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0020 ppm
Recovery Percentage 1	6.130 %	-0.693 %	19.454 %	2.617 %	0.385 %	1.139 %	0.923 %
Concentration RSD	14.1 %	294.1 %	46.0 %	89.1 %	122.3 %	24.9 %	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	0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0102 ppm	-0.0077 ppm	0.0000 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0105 ppm	-0.0129 ppm	0.0006 ppm
Concentration per Run 2	-0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0005 ppm	0.0106 ppm	-0.0031 ppm	-0.0008 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0004 ppm	0.0095 ppm	-0.0071 ppm	0.0002 ppm
Recovery Percentage 1	0.331 %	0.859 %	-0.230 %	4.334 %	20.419 %	-0.309 %	0.214 %
Concentration RSD	1,136.5 %	239.2 %	71.6 %	6.7 %	5.9 %	63.8 %	3,304.3 %

	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	0.0009 ppm	0.0000 ppm	0.0018 ppm	-0.0079 ppm	-0.0001 ppm	-0.0007 ppm	0.0021 ppm
Concentration per Run 1	-0.0002 ppm	0.0000 ppm	0.0013 ppm	-0.0068 ppm	0.0003 ppm	-0.0008 ppm	0.0021 ppm
Concentration per Run 2	0.0025 ppm	0.0001 ppm	0.0019 ppm	-0.0101 ppm	-0.0007 ppm	-0.0006 ppm	0.0022 ppm
Concentration per Run 3	0.0004 ppm	0.0000 ppm	0.0022 ppm	-0.0066 ppm	-0.0001 ppm	-0.0006 ppm	0.0020 ppm
Recovery Percentage 1	0.900 %	0.259 %	3.620 %	-0.393 %	-0.549 %	-6.773 %	4.194 %
Concentration RSD	158.1 %	355.9 %	23.3 %	25.1 %	377.1 %	16.3 %	4.1 %

	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	0.0012 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0007 ppm	0.0000 ppm
Concentration per Run 1	-0.0002 ppm	0.0015 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0012 ppm	0.0001 ppm
Concentration per Run 2	-0.0023 ppm	0.0021 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0012 ppm	0.0000 ppm
Concentration per Run 3	0.0007 ppm	0.0001 ppm	0.0006 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0001 ppm
Recovery Percentage 1	-5.832 %	0.246 %	0.678 %	0.490 %	0.457 %	-3.473 %	0.474 %
Concentration RSD	264.7 %	85.1 %	68.6 %	73.9 %	42.0 %	128.0 %	72.5 %

	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	0.0012 ppm	97.7974 %	100.5292 %	96.8777 %	100.2437 %	102.2195 %	101.8607 %
Concentration per Run 1	0.0014 ppm	97.0355 %	100.5445 %	95.7489 %	100.5354 %	102.1172 %	101.4695 %
Concentration per Run 2	0.0011 ppm	97.3715 %	99.8537 %	96.9574 %	99.6308 %	101.8973 %	101.6560 %
Concentration per Run 3	0.0010 ppm	98.9851 %	101.1895 %	97.9268 %	100.5649 %	102.6441 %	102.4566 %
Recovery Percentage 1	23.545 %						
Concentration RSD	17.4 %	1.1 %	0.7 %	1.1 %	0.5 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2472901-05d2 WG2010397
Analysis started at: 12/19/2024 4:10:27 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	17.7782 ppm	0.0077 ppm	0.0023 ppm	0.0369 ppm	0.0009 ppm	1.5446 ppm
Concentration per Run 1	0.0003 ppm	17.7255 ppm	0.0073 ppm	0.0024 ppm	0.0376 ppm	0.0009 ppm	1.5540 ppm
Concentration per Run 2	0.0001 ppm	17.9044 ppm	0.0075 ppm	0.0020 ppm	0.0369 ppm	0.0009 ppm	1.5422 ppm
Concentration per Run 3	0.0002 ppm	17.7046 ppm	0.0083 ppm	0.0026 ppm	0.0363 ppm	0.0009 ppm	1.5377 ppm
Concentration RSD	44.2 %	0.6 %	6.8 %	13.7 %	1.7 %	3.2 %	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	0.0001 ppm	0.0130 ppm	0.0236 ppm	0.0286 ppm	25.8927 ppm	1.4296 ppm	0.0207 ppm
Concentration per Run 1	0.0001 ppm	0.0130 ppm	0.0239 ppm	0.0292 ppm	26.1131 ppm	1.4441 ppm	0.0210 ppm
Concentration per Run 2	0.0001 ppm	0.0130 ppm	0.0234 ppm	0.0285 ppm	25.8907 ppm	1.4290 ppm	0.0205 ppm
Concentration per Run 3	0.0001 ppm	0.0130 ppm	0.0233 ppm	0.0282 ppm	25.6743 ppm	1.4157 ppm	0.0207 ppm
Concentration RSD	30.3 %	0.2 %	1.3 %	1.8 %	0.8 %	1.0 %	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	5.0994 ppm	0.6161 ppm	0.0008 ppm	0.1224 ppm	0.0196 ppm	0.0106 ppm	0.0007 ppm
Concentration per Run 1	5.1758 ppm	0.6195 ppm	0.0006 ppm	0.1213 ppm	0.0193 ppm	0.0103 ppm	-0.0011 ppm
Concentration per Run 2	5.0658 ppm	0.6154 ppm	0.0007 ppm	0.1240 ppm	0.0201 ppm	0.0102 ppm	0.0019 ppm
Concentration per Run 3	5.0565 ppm	0.6134 ppm	0.0010 ppm	0.1217 ppm	0.0195 ppm	0.0111 ppm	0.0013 ppm
Concentration RSD	1.3 %	0.5 %	30.7 %	1.2 %	2.2 %	4.8 %	218.9 %

	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	1.1960 ppm	0.0004 ppm	0.0103 ppm	0.3163 ppm	-0.0005 ppm	0.0297 ppm
Concentration per Run 1	-0.0004 ppm	1.2337 ppm	0.0000 ppm	0.0105 ppm	0.3202 ppm	-0.0004 ppm	0.0298 ppm
Concentration per Run 2	-0.0021 ppm	1.1861 ppm	0.0006 ppm	0.0103 ppm	0.3151 ppm	-0.0005 ppm	0.0299 ppm
Concentration per Run 3	-0.0012 ppm	1.1684 ppm	0.0006 ppm	0.0101 ppm	0.3137 ppm	-0.0007 ppm	0.0295 ppm
Concentration RSD	67.5 %	2.8 %	80.0 %	1.5 %	1.1 %	33.0 %	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	0.0623 ppm	102.6103 %	102.7378 %	96.0751 %	101.7031 %	105.3445 %	104.9167 %
Concentration per Run 1	0.0639 ppm	101.5582 %	102.4707 %	95.8764 %	101.2870 %	105.1314 %	105.0916 %
Concentration per Run 2	0.0614 ppm	102.9470 %	103.1065 %	96.0025 %	101.7664 %	105.8417 %	104.9457 %
Concentration per Run 3	0.0616 ppm	103.3257 %	102.6362 %	96.3465 %	102.0558 %	105.0603 %	104.7130 %
Concentration RSD	2.2 %	0.9 %	0.3 %	0.3 %	0.4 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2472901-06d2 WG2010397
Analysis started at: 12/19/2024 4:15:03 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	0.0192 ppm	36.1844 ppm	0.0352 ppm	0.0073 ppm	0.1251 ppm	0.0021 ppm	38.2331 ppm
Concentration per Run 1	0.0191 ppm	36.6704 ppm	0.0348 ppm	0.0065 ppm	0.1266 ppm	0.0021 ppm	38.4130 ppm
Concentration per Run 2	0.0192 ppm	36.1035 ppm	0.0366 ppm	0.0087 ppm	0.1250 ppm	0.0021 ppm	38.2658 ppm
Concentration per Run 3	0.0193 ppm	35.7795 ppm	0.0341 ppm	0.0068 ppm	0.1237 ppm	0.0021 ppm	38.0206 ppm
Concentration RSD	0.5 %	1.2 %	3.5 %	15.9 %	1.1 %	1.3 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0307 ppm	0.1679 ppm	0.0867 ppm	79.9020 ppm	4.4029 ppm	0.0354 ppm
Concentration per Run 1	0.0002 ppm	0.0305 ppm	0.1675 ppm	0.0869 ppm	79.6677 ppm	4.4579 ppm	0.0358 ppm
Concentration per Run 2	0.0001 ppm	0.0313 ppm	0.1683 ppm	0.0874 ppm	80.3799 ppm	4.4246 ppm	0.0352 ppm
Concentration per Run 3	0.0004 ppm	0.0304 ppm	0.1680 ppm	0.0859 ppm	79.6584 ppm	4.3261 ppm	0.0351 ppm
Concentration RSD	70.5 %	1.5 %	0.3 %	0.9 %	0.5 %	1.6 %	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	26.0221 ppm	1.4022 ppm	0.0410 ppm	0.3901 ppm	0.0572 ppm	0.0690 ppm	0.0026 ppm
Concentration per Run 1	26.0161 ppm	1.3998 ppm	0.0412 ppm	0.4019 ppm	0.0572 ppm	0.0715 ppm	0.0018 ppm
Concentration per Run 2	26.1939 ppm	1.4110 ppm	0.0412 ppm	0.3871 ppm	0.0574 ppm	0.0696 ppm	0.0033 ppm
Concentration per Run 3	25.8564 ppm	1.3957 ppm	0.0406 ppm	0.3812 ppm	0.0570 ppm	0.0658 ppm	0.0027 ppm
Concentration RSD	0.6 %	0.6 %	0.8 %	2.7 %	0.3 %	4.2 %	28.0 %

	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	-0.0009 ppm	2.0579 ppm	0.0036 ppm	0.0747 ppm	1.3434 ppm	-0.0002 ppm	0.1019 ppm
Concentration per Run 1	-0.0016 ppm	2.0633 ppm	0.0041 ppm	0.0749 ppm	1.3422 ppm	-0.0011 ppm	0.1030 ppm
Concentration per Run 2	-0.0005 ppm	2.0748 ppm	0.0033 ppm	0.0751 ppm	1.3517 ppm	0.0007 ppm	0.1025 ppm
Concentration per Run 3	-0.0005 ppm	2.0355 ppm	0.0035 ppm	0.0740 ppm	1.3364 ppm	-0.0001 ppm	0.1004 ppm
Concentration RSD	75.9 %	1.0 %	11.9 %	0.8 %	0.6 %	557.0 %	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	0.1914 ppm	100.8401 %	103.0189 %	90.5018 %	102.1360 %	107.6159 %	106.1637 %
Concentration per Run 1	0.1922 ppm	100.8152 %	103.0101 %	87.8121 %	102.7085 %	107.6776 %	103.7391 %
Concentration per Run 2	0.1912 ppm	100.5677 %	102.8353 %	89.6462 %	101.9301 %	107.5642 %	104.1496 %
Concentration per Run 3	0.1908 ppm	101.1374 %	103.2114 %	94.0471 %	101.7694 %	107.6057 %	110.6025 %
Concentration RSD	0.4 %	0.3 %	0.2 %	3.5 %	0.5 %	0.1 %	3.6 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2472901-07d2 WG2010397
Analysis started at: 12/19/2024 4:19:30 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	0.0003 ppm	9.4049 ppm	0.0113 ppm	0.0020 ppm	0.0218 ppm	0.0007 ppm	0.6674 ppm
Concentration per Run 1	0.0002 ppm	9.3693 ppm	0.0104 ppm	0.0015 ppm	0.0219 ppm	0.0007 ppm	0.6647 ppm
Concentration per Run 2	0.0003 ppm	9.4731 ppm	0.0117 ppm	0.0021 ppm	0.0218 ppm	0.0007 ppm	0.6712 ppm
Concentration per Run 3	0.0004 ppm	9.3723 ppm	0.0120 ppm	0.0024 ppm	0.0216 ppm	0.0006 ppm	0.6663 ppm
Concentration RSD	31.3 %	0.6 %	7.3 %	23.4 %	0.5 %	3.3 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0086 ppm	0.0343 ppm	0.0243 ppm	23.2611 ppm	0.8534 ppm	0.0110 ppm
Concentration per Run 1	0.0000 ppm	0.0090 ppm	0.0347 ppm	0.0247 ppm	23.2611 ppm	0.8676 ppm	0.0113 ppm
Concentration per Run 2	0.0000 ppm	0.0085 ppm	0.0340 ppm	0.0241 ppm	23.3243 ppm	0.8505 ppm	0.0105 ppm
Concentration per Run 3	0.0001 ppm	0.0083 ppm	0.0341 ppm	0.0241 ppm	23.1980 ppm	0.8420 ppm	0.0113 ppm
Concentration RSD	85.4 %	4.0 %	1.2 %	1.5 %	0.3 %	1.5 %	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	3.9546 ppm	0.3317 ppm	0.0006 ppm	0.2299 ppm	0.0150 ppm	0.0083 ppm	0.0018 ppm
Concentration per Run 1	4.0012 ppm	0.3311 ppm	0.0006 ppm	0.2279 ppm	0.0151 ppm	0.0074 ppm	0.0010 ppm
Concentration per Run 2	3.9299 ppm	0.3334 ppm	0.0006 ppm	0.2330 ppm	0.0148 ppm	0.0081 ppm	0.0033 ppm
Concentration per Run 3	3.9327 ppm	0.3305 ppm	0.0007 ppm	0.2288 ppm	0.0152 ppm	0.0093 ppm	0.0011 ppm
Concentration RSD	1.0 %	0.4 %	14.7 %	1.2 %	1.3 %	11.6 %	71.0 %

	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	1.0525 ppm	0.0001 ppm	0.0050 ppm	0.3223 ppm	-0.0003 ppm	0.0331 ppm
Concentration per Run 1	-0.0003 ppm	1.0669 ppm	0.0000 ppm	0.0050 ppm	0.3256 ppm	-0.0004 ppm	0.0336 ppm
Concentration per Run 2	-0.0005 ppm	1.0501 ppm	0.0008 ppm	0.0050 ppm	0.3209 ppm	-0.0004 ppm	0.0331 ppm
Concentration per Run 3	0.0000 ppm	1.0405 ppm	-0.0004 ppm	0.0050 ppm	0.3205 ppm	-0.0001 ppm	0.0327 ppm
Concentration RSD	97.9 %	1.3 %	405.5 %	0.3 %	0.9 %	49.3 %	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	0.0470 ppm	102.1972 %	103.7177 %	96.2415 %	101.5710 %	104.6121 %	103.4189 %
Concentration per Run 1	0.0474 ppm	101.0342 %	103.7204 %	95.6354 %	101.6693 %	104.3972 %	102.7594 %
Concentration per Run 2	0.0464 ppm	102.9259 %	103.4468 %	96.6746 %	102.5783 %	104.8821 %	103.9166 %
Concentration per Run 3	0.0471 ppm	102.6314 %	103.9859 %	96.4147 %	100.4654 %	104.5569 %	103.5806 %
Concentration RSD	1.1 %	1.0 %	0.3 %	0.6 %	1.0 %	0.2 %	0.6 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: xL2473015-13D4 WG2010388
Analysis started at: 12/19/2024 4:23:58 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	0.0018 ppm	29.4593 ppm	0.1505 ppm	0.0713 ppm	0.6408 ppm	0.0053 ppm	4.5789 ppm
Concentration per Run 1	0.0016 ppm	29.2889 ppm	0.1504 ppm	0.0719 ppm	0.6440 ppm	0.0054 ppm	4.5681 ppm
Concentration per Run 2	0.0021 ppm	29.6132 ppm	0.1504 ppm	0.0703 ppm	0.6441 ppm	0.0053 ppm	4.5662 ppm
Concentration per Run 3	0.0016 ppm	29.4759 ppm	0.1506 ppm	0.0717 ppm	0.6343 ppm	0.0053 ppm	4.6025 ppm
Concentration RSD	18.6 %	0.6 %	0.1 %	1.2 %	0.9 %	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	0.0005 ppm	0.0220 ppm	0.0701 ppm	0.1643 ppm	269.0164 ppm	4.6571 ppm	0.0307 ppm
Concentration per Run 1	0.0005 ppm	0.0223 ppm	0.0708 ppm	0.1655 ppm	269.2724 ppm	4.6817 ppm	0.0306 ppm
Concentration per Run 2	0.0006 ppm	0.0219 ppm	0.0697 ppm	0.1644 ppm	269.4926 ppm	4.6893 ppm	0.0309 ppm
Concentration per Run 3	0.0004 ppm	0.0217 ppm	0.0698 ppm	0.1630 ppm	268.2841 ppm	4.6004 ppm	0.0304 ppm
Concentration RSD	22.0 %	1.4 %	0.9 %	0.8 %	0.2 %	1.1 %	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	1.5044 ppm	0.3661 ppm	0.0365 ppm	0.5512 ppm	0.0779 ppm	0.0857 ppm	0.0043 ppm
Concentration per Run 1	1.5245 ppm	0.3657 ppm	0.0358 ppm	0.5465 ppm	0.0798 ppm	0.0862 ppm	0.0041 ppm
Concentration per Run 2	1.4962 ppm	0.3666 ppm	0.0367 ppm	0.5570 ppm	0.0773 ppm	0.0856 ppm	0.0033 ppm
Concentration per Run 3	1.4926 ppm	0.3660 ppm	0.0369 ppm	0.5500 ppm	0.0767 ppm	0.0854 ppm	0.0056 ppm
Concentration RSD	1.2 %	0.1 %	1.7 %	1.0 %	2.1 %	0.5 %	27.0 %

	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	0.0024 ppm	1.1536 ppm	0.0050 ppm	0.4330 ppm	2.3213 ppm	0.0052 ppm	0.1344 ppm
Concentration per Run 1	0.0043 ppm	1.1660 ppm	0.0052 ppm	0.4341 ppm	2.3424 ppm	0.0056 ppm	0.1359 ppm
Concentration per Run 2	0.0013 ppm	1.1478 ppm	0.0047 ppm	0.4350 ppm	2.3127 ppm	0.0046 ppm	0.1334 ppm
Concentration per Run 3	0.0016 ppm	1.1472 ppm	0.0051 ppm	0.4300 ppm	2.3089 ppm	0.0052 ppm	0.1338 ppm
Concentration RSD	69.3 %	0.9 %	5.4 %	0.6 %	0.8 %	9.9 %	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	0.1156 ppm	103.7957 %	105.8278 %	86.7892 %	103.9662 %	109.8613 %	105.6764 %
Concentration per Run 1	0.1162 ppm	102.9977 %	105.9563 %	86.4495 %	103.8292 %	109.7826 %	105.5740 %
Concentration per Run 2	0.1151 ppm	104.3394 %	106.3161 %	86.5773 %	104.3355 %	110.5424 %	105.7287 %
Concentration per Run 3	0.1154 ppm	104.0501 %	105.2110 %	87.3409 %	103.7338 %	109.2589 %	105.7264 %
Concentration RSD	0.5 %	0.7 %	0.5 %	0.6 %	0.3 %	0.6 %	0.1 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473015-03D4 WG2010388
Analysis started at: 12/19/2024 4:31:06 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	0.0011 ppm	28.2998 ppm	0.0464 ppm	0.0639 ppm	0.8278 ppm	0.0026 ppm	485.8512 ppm
Concentration per Run 1	0.0009 ppm	27.7909 ppm	0.0485 ppm	0.0642 ppm	0.8187 ppm	0.0026 ppm	480.1833 ppm
Concentration per Run 2	0.0013 ppm	28.6691 ppm	0.0443 ppm	0.0629 ppm	0.8336 ppm	0.0027 ppm	489.4926 ppm
Concentration per Run 3	0.0010 ppm	28.4395 ppm	0.0465 ppm	0.0647 ppm	0.8309 ppm	0.0026 ppm	487.8776 ppm
Concentration RSD	17.6 %	1.6 %	4.6 %	1.5 %	1.0 %	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	0.0010 ppm	0.0247 ppm	0.1173 ppm	0.2564 ppm	104.1946 ppm	6.4031 ppm	0.0425 ppm
Concentration per Run 1	0.0010 ppm	0.0247 ppm	0.1184 ppm	0.2566 ppm	102.9872 ppm	6.3418 ppm	0.0413 ppm
Concentration per Run 2	0.0010 ppm	0.0245 ppm	0.1170 ppm	0.2565 ppm	104.9658 ppm	6.4609 ppm	0.0430 ppm
Concentration per Run 3	0.0010 ppm	0.0249 ppm	0.1165 ppm	0.2560 ppm	104.6308 ppm	6.4066 ppm	0.0431 ppm
Concentration RSD	3.8 %	0.8 %	0.8 %	0.1 %	1.0 %	0.9 %	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	61.1021 ppm	3.3860 ppm	0.0123 ppm	3.5806 ppm	0.1062 ppm	0.2426 ppm	0.0093 ppm
Concentration per Run 1	61.5091 ppm	3.3447 ppm	0.0120 ppm	3.5311 ppm	0.1065 ppm	0.2421 ppm	0.0085 ppm
Concentration per Run 2	61.0710 ppm	3.4167 ppm	0.0124 ppm	3.6026 ppm	0.1061 ppm	0.2427 ppm	0.0087 ppm
Concentration per Run 3	60.7260 ppm	3.3966 ppm	0.0124 ppm	3.6081 ppm	0.1060 ppm	0.2430 ppm	0.0107 ppm
Concentration RSD	0.6 %	1.1 %	1.8 %	1.2 %	0.3 %	0.2 %	13.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	3.6580 ppm	0.0153 ppm	0.7729 ppm	1.2628 ppm	-0.0025 ppm	0.0635 ppm
Concentration per Run 1	-0.0004 ppm	3.6642 ppm	0.0155 ppm	0.7648 ppm	1.2699 ppm	-0.0019 ppm	0.0640 ppm
Concentration per Run 2	0.0001 ppm	3.6568 ppm	0.0150 ppm	0.7773 ppm	1.2612 ppm	-0.0025 ppm	0.0632 ppm
Concentration per Run 3	-0.0001 ppm	3.6529 ppm	0.0152 ppm	0.7768 ppm	1.2574 ppm	-0.0032 ppm	0.0635 ppm
Concentration RSD	169.8 %	0.2 %	1.6 %	0.9 %	0.5 %	27.6 %	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	0.5814 ppm	92.3157 %	99.4200 %	74.2441 %	95.9863 %	107.1819 %	97.0122 %
Concentration per Run 1	0.5853 ppm	91.8418 %	100.6526 %	74.4369 %	96.1248 %	108.4751 %	97.1599 %
Concentration per Run 2	0.5815 ppm	92.6648 %	98.7680 %	74.6693 %	96.3354 %	106.0706 %	97.1602 %
Concentration per Run 3	0.5773 ppm	92.4404 %	98.8394 %	73.6261 %	95.4988 %	106.9999 %	96.7164 %
Concentration RSD	0.7 %	0.5 %	1.1 %	0.7 %	0.5 %	1.1 %	0.3 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: CCV
Analysis started at: 12/19/2024 4:36:29 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	0.5013 ppm	0.4939 ppm	0.4776 ppm	0.5006 ppm	0.4879 ppm	0.5170 ppm	0.5311 ppm
Concentration per Run 1	0.5069 ppm	0.4946 ppm	0.4756 ppm	0.5055 ppm	0.4914 ppm	0.5183 ppm	0.5342 ppm
Concentration per Run 2	0.5007 ppm	0.4936 ppm	0.4795 ppm	0.4968 ppm	0.4881 ppm	0.5192 ppm	0.5343 ppm
Concentration per Run 3	0.4963 ppm	0.4935 ppm	0.4776 ppm	0.4995 ppm	0.4842 ppm	0.5134 ppm	0.5249 ppm
Recovery Percentage 1	100.259 %	98.782 %	95.519 %	100.120 %	97.580 %	103.395 %	106.224 %
Concentration RSD	1.1 %	0.1 %	0.4 %	0.9 %	0.7 %	0.6 %	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	0.5131 ppm	0.5246 ppm	0.5081 ppm	0.5006 ppm	0.5342 ppm	5.1215 ppm	0.4911 ppm
Concentration per Run 1	0.5175 ppm	0.5290 ppm	0.5125 ppm	0.5055 ppm	0.5362 ppm	5.1445 ppm	0.4930 ppm
Concentration per Run 2	0.5116 ppm	0.5228 ppm	0.5068 ppm	0.4989 ppm	0.5355 ppm	5.1376 ppm	0.4894 ppm
Concentration per Run 3	0.5101 ppm	0.5221 ppm	0.5049 ppm	0.4975 ppm	0.5309 ppm	5.0824 ppm	0.4910 ppm
Recovery Percentage 1	102.613 %	104.930 %	101.615 %	100.127 %	106.842 %	102.430 %	98.227 %
Concentration RSD	0.8 %	0.7 %	0.8 %	0.9 %	0.5 %	0.7 %	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	0.5216 ppm	0.5058 ppm	0.5089 ppm	10.0420 ppm	0.5218 ppm	0.4916 ppm	0.5084 ppm
Concentration per Run 1	0.5273 ppm	0.5062 ppm	0.5071 ppm	9.9775 ppm	0.5232 ppm	0.4896 ppm	0.5127 ppm
Concentration per Run 2	0.5204 ppm	0.5074 ppm	0.5064 ppm	10.1057 ppm	0.5218 ppm	0.4930 ppm	0.5051 ppm
Concentration per Run 3	0.5170 ppm	0.5038 ppm	0.5134 ppm	10.0429 ppm	0.5203 ppm	0.4922 ppm	0.5075 ppm
Recovery Percentage 1	104.320 %	101.160 %	101.788 %	100.420 %	104.357 %	98.321 %	101.690 %
Concentration RSD	1.0 %	0.4 %	0.8 %	0.6 %	0.3 %	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	0.4878 ppm	5.6506 ppm	0.5375 ppm	0.5186 ppm	0.5084 ppm	0.4876 ppm	0.5062 ppm
Concentration per Run 1	0.4865 ppm	5.6886 ppm	0.5396 ppm	0.5190 ppm	0.5143 ppm	0.4864 ppm	0.5107 ppm
Concentration per Run 2	0.4899 ppm	5.6399 ppm	0.5362 ppm	0.5197 ppm	0.5074 ppm	0.4911 ppm	0.5037 ppm
Concentration per Run 3	0.4869 ppm	5.6233 ppm	0.5368 ppm	0.5171 ppm	0.5036 ppm	0.4853 ppm	0.5041 ppm
Recovery Percentage 1	97.555 %	107.630 %	107.503 %	103.719 %	101.684 %	97.520 %	101.237 %
Concentration RSD	0.4 %	0.6 %	0.3 %	0.3 %	1.1 %	0.6 %	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	0.5177 ppm	101.4249 %	102.3827 %	96.2496 %	97.7339 %	100.7388 %	100.0212 %
Concentration per Run 1	0.5205 ppm	100.6136 %	102.0410 %	96.5541 %	97.7326 %	100.4377 %	100.1817 %
Concentration per Run 2	0.5169 ppm	101.6936 %	102.6278 %	96.5177 %	97.5859 %	100.8134 %	100.3903 %
Concentration per Run 3	0.5158 ppm	101.9676 %	102.4794 %	95.6770 %	97.8833 %	100.9652 %	99.4915 %
Recovery Percentage 1	103.541 %						
Concentration RSD	0.5 %	0.7 %	0.3 %	0.5 %	0.2 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: CCB
Analysis started at: 12/19/2024 4:40:57 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	0.0014 ppm	0.0010 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0030 ppm
Concentration per Run 1	-0.0001 ppm	0.0010 ppm	-0.0001 ppm	0.0018 ppm	0.0000 ppm	0.0000 ppm	0.0019 ppm
Concentration per Run 2	0.0001 ppm	0.0003 ppm	0.0015 ppm	0.0013 ppm	0.0000 ppm	0.0001 ppm	0.0031 ppm
Concentration per Run 3	0.0001 ppm	0.0029 ppm	0.0015 ppm	0.0007 ppm	0.0001 ppm	0.0001 ppm	0.0040 ppm
Recovery Percentage 1	1.174 %	1.398 %	19.009 %	4.133 %	0.375 %	0.889 %	3.002 %
Concentration RSD	197.3 %	97.3 %	96.3 %	44.1 %	35.1 %	70.4 %	35.1 %

	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	0.0001 ppm	0.0059 ppm	-0.0048 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0049 ppm	-0.0015 ppm	0.0007 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0074 ppm	-0.0051 ppm	0.0005 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0052 ppm	-0.0079 ppm	-0.0007 ppm
Recovery Percentage 1	0.813 %	0.430 %	-0.898 %	1.380 %	11.716 %	-0.193 %	1.549 %
Concentration RSD	49.2 %	584.2 %	159.0 %	76.3 %	22.7 %	66.3 %	495.8 %

	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	0.0014 ppm	-0.0075 ppm	0.0002 ppm	-0.0007 ppm	0.0023 ppm
Concentration per Run 1	0.0003 ppm	0.0001 ppm	0.0014 ppm	-0.0088 ppm	0.0000 ppm	-0.0006 ppm	0.0015 ppm
Concentration per Run 2	-0.0021 ppm	0.0000 ppm	0.0014 ppm	-0.0080 ppm	0.0007 ppm	-0.0016 ppm	0.0020 ppm
Concentration per Run 3	-0.0003 ppm	0.0000 ppm	0.0014 ppm	-0.0057 ppm	0.0000 ppm	0.0000 ppm	0.0036 ppm
Recovery Percentage 1	-0.697 %	0.432 %	2.877 %	-0.377 %	0.828 %	-7.454 %	4.696 %
Concentration RSD	178.3 %	156.7 %	0.1 %	21.3 %	192.7 %	111.2 %	47.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 1	0.0028 ppm	-0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 2	0.0005 ppm	-0.0003 ppm	-0.0002 ppm	0.0001 ppm	-0.0001 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 3	-0.0015 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0001 ppm
Recovery Percentage 1	6.023 %	-0.091 %	-0.055 %	0.240 %	-0.558 %	-1.954 %	1.077 %
Concentration RSD	360.3 %	159.8 %	705.1 %	205.2 %	144.8 %	69.8 %	48.0 %

	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	100.0874 %	101.3935 %	98.0370 %	100.6528 %	101.7212 %	102.1179 %
Concentration per Run 1	0.0007 ppm	99.2435 %	100.8153 %	97.6727 %	100.7457 %	101.6200 %	102.0235 %
Concentration per Run 2	0.0006 ppm	99.9370 %	102.2851 %	97.8719 %	100.2958 %	102.5694 %	101.9494 %
Concentration per Run 3	0.0008 ppm	101.0816 %	101.0802 %	98.5664 %	100.9169 %	100.9743 %	102.3807 %
Recovery Percentage 1	14.016 %						
Concentration RSD	8.9 %	0.9 %	0.8 %	0.5 %	0.3 %	0.8 %	0.2 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2010999-1 WG2010999
Analysis started at: 12/19/2024 4:58:36 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	0.0028 ppm	0.0010 ppm	0.0054 ppm	0.0003 ppm	0.0000 ppm	0.0491 ppm
Concentration per Run 1	0.0001 ppm	0.0040 ppm	0.0025 ppm	0.0057 ppm	0.0003 ppm	0.0000 ppm	0.0471 ppm
Concentration per Run 2	-0.0001 ppm	0.0026 ppm	0.0005 ppm	0.0048 ppm	0.0003 ppm	0.0000 ppm	0.0496 ppm
Concentration per Run 3	-0.0002 ppm	0.0019 ppm	0.0001 ppm	0.0058 ppm	0.0003 ppm	0.0000 ppm	0.0506 ppm
Recovery Percentage 1	-1.106 %	2.846 %	20.987 %	18.098 %	3.306 %	0.590 %	49.119 %
Concentration RSD	201.9 %	37.7 %	123.6 %	9.5 %	5.6 %	23.5 %	3.7 %

	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	0.0000 ppm	0.0000 ppm	0.0013 ppm	0.0033 ppm	0.0880 ppm	0.0018 ppm
Concentration per Run 1	-0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0014 ppm	0.0030 ppm	0.0911 ppm	0.0022 ppm
Concentration per Run 2	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0013 ppm	0.0038 ppm	0.0872 ppm	0.0015 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0012 ppm	0.0031 ppm	0.0856 ppm	0.0018 ppm
Recovery Percentage 1	-1.501 %	0.158 %	0.353 %	13.261 %	6.582 %	3.520 %	18.008 %
Concentration RSD	82.2 %	1,193.8 %	320.4 %	9.0 %	13.1 %	3.2 %	19.4 %

	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	0.0113 ppm	0.0001 ppm	-0.0001 ppm	127.6722 ppm	0.0002 ppm	0.0001 ppm	0.0029 ppm
Concentration per Run 1	0.0114 ppm	0.0002 ppm	-0.0001 ppm	126.0879 ppm	0.0002 ppm	0.0000 ppm	0.0027 ppm
Concentration per Run 2	0.0114 ppm	0.0001 ppm	0.0001 ppm	128.8172 ppm	0.0003 ppm	0.0000 ppm	0.0022 ppm
Concentration per Run 3	0.0110 ppm	0.0001 ppm	-0.0003 ppm	128.1115 ppm	0.0001 ppm	0.0001 ppm	0.0038 ppm
Recovery Percentage 1	11.269 %	1.416 %	-0.174 %	6,383.610 %	0.794 %	0.529 %	5.735 %
Concentration RSD	2.1 %	50.7 %	236.0 %	1.1 %	48.6 %	132.1 %	28.3 %

	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	0.0263 ppm	0.0009 ppm	0.0002 ppm	0.0000 ppm	-0.0023 ppm	-0.0001 ppm
Concentration per Run 1	0.0023 ppm	0.0272 ppm	0.0013 ppm	0.0002 ppm	-0.0001 ppm	-0.0028 ppm	-0.0001 ppm
Concentration per Run 2	0.0025 ppm	0.0246 ppm	0.0005 ppm	0.0002 ppm	-0.0001 ppm	-0.0019 ppm	-0.0001 ppm
Concentration per Run 3	0.0018 ppm	0.0272 ppm	0.0010 ppm	0.0002 ppm	0.0001 ppm	-0.0023 ppm	0.0000 ppm
Recovery Percentage 1	22.115 %	5.267 %	1.840 %	2.256 %	-0.435 %	-11.603 %	-0.660 %
Concentration RSD	15.9 %	5.9 %	42.3 %	10.7 %	221.2 %	20.2 %	119.2 %

	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	0.0039 ppm	102.6349 %	99.4218 %	90.2712 %	92.4430 %	96.3362 %	95.0574 %
Concentration per Run 1	0.0041 ppm	103.2585 %	99.9615 %	90.4375 %	91.8924 %	96.5954 %	95.0420 %
Concentration per Run 2	0.0037 ppm	102.9104 %	99.6176 %	90.2701 %	93.3085 %	96.4149 %	95.1741 %
Concentration per Run 3	0.0040 ppm	101.7357 %	98.6863 %	90.1060 %	92.1282 %	95.9982 %	94.9562 %
Recovery Percentage 1	78.682 %						
Concentration RSD	5.1 %	0.8 %	0.7 %	0.2 %	0.8 %	0.3 %	0.1 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2010999-2 WG2010999
Analysis started at: 12/19/2024 5:03:23 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	0.0469 ppm	1.9253 ppm	0.1081 ppm	0.8822 ppm	1.8856 ppm	0.0501 ppm	9.8342 ppm
Concentration per Run 1	0.0470 ppm	1.9193 ppm	0.1100 ppm	0.8906 ppm	1.8810 ppm	0.0499 ppm	9.7705 ppm
Concentration per Run 2	0.0470 ppm	1.9362 ppm	0.1065 ppm	0.8792 ppm	1.8943 ppm	0.0505 ppm	9.9178 ppm
Concentration per Run 3	0.0468 ppm	1.9206 ppm	0.1078 ppm	0.8769 ppm	1.8815 ppm	0.0498 ppm	9.8142 ppm
Concentration RSD	0.3 %	0.5 %	1.7 %	0.8 %	0.4 %	0.8 %	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	0.0497 ppm	0.4869 ppm	0.1927 ppm	0.2452 ppm	1.0251 ppm	9.5568 ppm	0.0008 ppm
Concentration per Run 1	0.0502 ppm	0.4905 ppm	0.1946 ppm	0.2462 ppm	1.0173 ppm	9.4788 ppm	0.0012 ppm
Concentration per Run 2	0.0489 ppm	0.4843 ppm	0.1914 ppm	0.2460 ppm	1.0350 ppm	9.6452 ppm	0.0007 ppm
Concentration per Run 3	0.0501 ppm	0.4859 ppm	0.1920 ppm	0.2434 ppm	1.0229 ppm	9.5463 ppm	0.0006 ppm
Concentration RSD	1.5 %	0.7 %	0.9 %	0.6 %	0.9 %	0.9 %	40.6 %

	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	9.4625 ppm	0.5039 ppm	0.9942 ppm	9.3084 ppm	0.4871 ppm	0.4986 ppm	0.4773 ppm
Concentration per Run 1	9.5413 ppm	0.5018 ppm	0.9959 ppm	9.2642 ppm	0.4924 ppm	0.5004 ppm	0.4830 ppm
Concentration per Run 2	9.4192 ppm	0.5076 ppm	0.9891 ppm	9.3896 ppm	0.4817 ppm	0.4962 ppm	0.4764 ppm
Concentration per Run 3	9.4269 ppm	0.5023 ppm	0.9978 ppm	9.2715 ppm	0.4871 ppm	0.4992 ppm	0.4725 ppm
Concentration RSD	0.7 %	0.6 %	0.5 %	0.8 %	1.1 %	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	0.1051 ppm	0.6291 ppm	0.9295 ppm	0.9357 ppm	0.9501 ppm	0.1089 ppm	0.4939 ppm
Concentration per Run 1	0.1068 ppm	0.6366 ppm	0.9379 ppm	0.9342 ppm	0.9570 ppm	0.1096 ppm	0.4976 ppm
Concentration per Run 2	0.1031 ppm	0.6260 ppm	0.9246 ppm	0.9433 ppm	0.9470 ppm	0.1088 ppm	0.4926 ppm
Concentration per Run 3	0.1055 ppm	0.6246 ppm	0.9260 ppm	0.9296 ppm	0.9463 ppm	0.1082 ppm	0.4916 ppm
Concentration RSD	1.8 %	1.0 %	0.8 %	0.7 %	0.6 %	0.6 %	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	0.4866 ppm	102.3825 %	101.0872 %	91.5621 %	96.4367 %	98.8705 %	97.8089 %
Concentration per Run 1	0.4907 ppm	101.8498 %	102.1084 %	91.0204 %	96.4491 %	100.1284 %	97.4823 %
Concentration per Run 2	0.4804 ppm	102.7763 %	100.0958 %	91.8372 %	97.2386 %	98.0357 %	98.1755 %
Concentration per Run 3	0.4887 ppm	102.5214 %	101.0575 %	91.8285 %	95.6224 %	98.4472 %	97.7689 %
Concentration RSD	1.1 %	0.5 %	1.0 %	0.5 %	0.8 %	1.1 %	0.4 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473137-01 WG2010999
Analysis started at: 12/19/2024 5:19:59 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	0.0002 ppm	0.0107 ppm	0.0012 ppm	0.0122 ppm	0.0439 ppm	0.0001 ppm	42.3816 ppm
Concentration per Run 1	0.0002 ppm	0.0107 ppm	0.0027 ppm	0.0127 ppm	0.0439 ppm	0.0001 ppm	42.4366 ppm
Concentration per Run 2	0.0002 ppm	0.0109 ppm	-0.0009 ppm	0.0117 ppm	0.0441 ppm	0.0001 ppm	42.4425 ppm
Concentration per Run 3	0.0001 ppm	0.0105 ppm	0.0017 ppm	0.0122 ppm	0.0436 ppm	0.0000 ppm	42.2657 ppm
Concentration RSD	34.0 %	1.7 %	159.7 %	4.0 %	0.5 %	39.3 %	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	0.0000 ppm	0.0003 ppm	-0.0001 ppm	0.0010 ppm	0.0097 ppm	0.7042 ppm	0.0041 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0002 ppm	0.0011 ppm	0.0100 ppm	0.7152 ppm	0.0049 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	-0.0002 ppm	0.0008 ppm	0.0098 ppm	0.7103 ppm	0.0035 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0011 ppm	0.0092 ppm	0.6872 ppm	0.0039 ppm
Concentration RSD	34.9 %	20.5 %	200.2 %	16.3 %	4.4 %	2.1 %	17.5 %

	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	2.0560 ppm	0.2129 ppm	0.0020 ppm	128.4490 ppm	0.0014 ppm	0.0367 ppm	0.0032 ppm
Concentration per Run 1	2.0376 ppm	0.2134 ppm	0.0020 ppm	129.0482 ppm	0.0012 ppm	0.0376 ppm	0.0018 ppm
Concentration per Run 2	2.0625 ppm	0.2134 ppm	0.0020 ppm	128.2810 ppm	0.0014 ppm	0.0366 ppm	0.0033 ppm
Concentration per Run 3	2.0680 ppm	0.2118 ppm	0.0020 ppm	128.0177 ppm	0.0015 ppm	0.0360 ppm	0.0046 ppm
Concentration RSD	0.8 %	0.5 %	0.5 %	0.4 %	11.2 %	2.1 %	42.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.7809 ppm	0.0002 ppm	0.1246 ppm	0.0001 ppm	-0.0026 ppm	0.0001 ppm
Concentration per Run 1	0.0016 ppm	0.7788 ppm	-0.0002 ppm	0.1247 ppm	0.0002 ppm	-0.0017 ppm	0.0001 ppm
Concentration per Run 2	-0.0013 ppm	0.7832 ppm	0.0005 ppm	0.1251 ppm	0.0001 ppm	-0.0033 ppm	0.0002 ppm
Concentration per Run 3	-0.0002 ppm	0.7807 ppm	0.0003 ppm	0.1241 ppm	0.0000 ppm	-0.0028 ppm	0.0000 ppm
Concentration RSD	3,187.8 %	0.3 %	164.4 %	0.4 %	152.7 %	31.5 %	59.0 %

	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	0.0101 ppm	101.0289 %	98.8486 %	88.2308 %	91.1236 %	95.8077 %	93.9849 %
Concentration per Run 1	0.0101 ppm	101.5829 %	98.6447 %	88.6926 %	91.1622 %	95.8801 %	93.7816 %
Concentration per Run 2	0.0101 ppm	101.2555 %	98.9510 %	88.1057 %	91.2221 %	95.9718 %	94.2379 %
Concentration per Run 3	0.0100 ppm	100.2482 %	98.9500 %	87.8939 %	90.9865 %	95.5711 %	93.9352 %
Concentration RSD	0.3 %	0.7 %	0.2 %	0.5 %	0.1 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2010999-3 WG2010999
Analysis started at: 12/19/2024 5:24:46 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	0.0490 ppm	1.9634 ppm	0.1159 ppm	0.9262 ppm	1.9500 ppm	0.0516 ppm	51.7650 ppm
Concentration per Run 1	0.0492 ppm	1.9617 ppm	0.1177 ppm	0.9341 ppm	1.9449 ppm	0.0518 ppm	51.8761 ppm
Concentration per Run 2	0.0492 ppm	1.9811 ppm	0.1147 ppm	0.9262 ppm	1.9584 ppm	0.0517 ppm	51.7482 ppm
Concentration per Run 3	0.0486 ppm	1.9475 ppm	0.1154 ppm	0.9182 ppm	1.9468 ppm	0.0514 ppm	51.6707 ppm
Concentration RSD	0.7 %	0.9 %	1.3 %	0.9 %	0.4 %	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	0.0508 ppm	0.4857 ppm	0.1963 ppm	0.2524 ppm	1.0400 ppm	10.6760 ppm	0.0047 ppm
Concentration per Run 1	0.0517 ppm	0.4904 ppm	0.1988 ppm	0.2531 ppm	1.0437 ppm	10.6171 ppm	0.0049 ppm
Concentration per Run 2	0.0506 ppm	0.4856 ppm	0.1952 ppm	0.2529 ppm	1.0375 ppm	10.8137 ppm	0.0045 ppm
Concentration per Run 3	0.0502 ppm	0.4812 ppm	0.1948 ppm	0.2511 ppm	1.0388 ppm	10.5972 ppm	0.0047 ppm
Concentration RSD	1.5 %	0.9 %	1.1 %	0.4 %	0.3 %	1.1 %	3.6 %

	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	11.3641 ppm	0.7226 ppm	1.0259 ppm	139.2508 ppm	0.4879 ppm	0.5510 ppm	0.4947 ppm
Concentration per Run 1	11.4642 ppm	0.7221 ppm	1.0318 ppm	137.9768 ppm	0.4925 ppm	0.5526 ppm	0.4954 ppm
Concentration per Run 2	11.3748 ppm	0.7241 ppm	1.0227 ppm	141.4550 ppm	0.4860 ppm	0.5476 ppm	0.4947 ppm
Concentration per Run 3	11.2534 ppm	0.7215 ppm	1.0232 ppm	138.3205 ppm	0.4853 ppm	0.5527 ppm	0.4941 ppm
Concentration RSD	0.9 %	0.2 %	0.5 %	1.4 %	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	0.1146 ppm	1.4610 ppm	0.9282 ppm	1.0729 ppm	0.9835 ppm	0.1083 ppm	0.5118 ppm
Concentration per Run 1	0.1168 ppm	1.4776 ppm	0.9438 ppm	1.0738 ppm	0.9943 ppm	0.1093 ppm	0.5154 ppm
Concentration per Run 2	0.1114 ppm	1.4562 ppm	0.9197 ppm	1.0752 ppm	0.9811 ppm	0.1066 ppm	0.5113 ppm
Concentration per Run 3	0.1156 ppm	1.4493 ppm	0.9210 ppm	1.0698 ppm	0.9751 ppm	0.1091 ppm	0.5086 ppm
Concentration RSD	2.5 %	1.0 %	1.5 %	0.3 %	1.0 %	1.4 %	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	0.5112 ppm	95.8350 %	99.2847 %	81.9102 %	89.9241 %	96.6785 %	92.1609 %
Concentration per Run 1	0.5183 ppm	95.2501 %	98.8274 %	81.7928 %	89.8131 %	96.4223 %	91.9510 %
Concentration per Run 2	0.5101 ppm	95.6160 %	99.2834 %	82.1442 %	89.3344 %	96.7868 %	92.5642 %
Concentration per Run 3	0.5052 ppm	96.6388 %	99.7432 %	81.7935 %	90.6249 %	96.8266 %	91.9674 %
Concentration RSD	1.3 %	0.8 %	0.5 %	0.2 %	0.7 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2010999-4 WG2010999
Analysis started at: 12/19/2024 5:29:13 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	0.0001 ppm	0.0145 ppm	0.0019 ppm	0.0127 ppm	0.0436 ppm	0.0001 ppm	41.3189 ppm
Concentration per Run 1	0.0001 ppm	0.0145 ppm	0.0034 ppm	0.0129 ppm	0.0436 ppm	0.0000 ppm	41.5033 ppm
Concentration per Run 2	0.0001 ppm	0.0146 ppm	0.0001 ppm	0.0122 ppm	0.0432 ppm	0.0001 ppm	40.9209 ppm
Concentration per Run 3	0.0003 ppm	0.0143 ppm	0.0021 ppm	0.0128 ppm	0.0440 ppm	0.0001 ppm	41.5324 ppm
Concentration RSD	80.7 %	0.9 %	87.0 %	2.9 %	0.8 %	32.3 %	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	-0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0010 ppm	0.0088 ppm	0.7108 ppm	0.0039 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	0.0003 ppm	0.0012 ppm	0.0101 ppm	0.7197 ppm	0.0043 ppm
Concentration per Run 2	-0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0011 ppm	0.0076 ppm	0.7065 ppm	0.0033 ppm
Concentration per Run 3	-0.0002 ppm	0.0000 ppm	0.0003 ppm	0.0009 ppm	0.0087 ppm	0.7062 ppm	0.0041 ppm
Concentration RSD	81.3 %	113.8 %	15.2 %	14.1 %	13.8 %	1.1 %	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	2.0607 ppm	0.2084 ppm	0.0037 ppm	128.2056 ppm	0.0019 ppm	0.0368 ppm	0.0024 ppm
Concentration per Run 1	2.0696 ppm	0.2091 ppm	0.0042 ppm	128.7395 ppm	0.0019 ppm	0.0371 ppm	0.0021 ppm
Concentration per Run 2	2.0616 ppm	0.2063 ppm	0.0036 ppm	126.0014 ppm	0.0019 ppm	0.0364 ppm	0.0022 ppm
Concentration per Run 3	2.0509 ppm	0.2099 ppm	0.0034 ppm	129.8758 ppm	0.0018 ppm	0.0369 ppm	0.0029 ppm
Concentration RSD	0.5 %	0.9 %	10.3 %	1.6 %	3.4 %	1.0 %	18.0 %

	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	0.0007 ppm	0.7676 ppm	0.0008 ppm	0.1237 ppm	0.0002 ppm	-0.0016 ppm	0.0001 ppm
Concentration per Run 1	0.0012 ppm	0.7692 ppm	0.0009 ppm	0.1240 ppm	0.0002 ppm	-0.0019 ppm	0.0001 ppm
Concentration per Run 2	0.0001 ppm	0.7665 ppm	0.0008 ppm	0.1225 ppm	0.0005 ppm	-0.0016 ppm	0.0002 ppm
Concentration per Run 3	0.0008 ppm	0.7672 ppm	0.0008 ppm	0.1245 ppm	0.0000 ppm	-0.0015 ppm	0.0001 ppm
Concentration RSD	79.1 %	0.2 %	3.1 %	0.8 %	86.6 %	12.0 %	30.7 %

	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	0.0106 ppm	96.7005 %	99.4500 %	84.8429 %	90.4065 %	96.8084 %	93.0978 %
Concentration per Run 1	0.0110 ppm	96.5342 %	99.2222 %	84.6402 %	90.5813 %	96.3909 %	93.1274 %
Concentration per Run 2	0.0102 ppm	96.9003 %	100.1258 %	84.3885 %	90.6351 %	96.9898 %	92.8468 %
Concentration per Run 3	0.0106 ppm	96.6671 %	99.0020 %	85.5001 %	90.0030 %	97.0446 %	93.3191 %
Concentration RSD	3.6 %	0.2 %	0.6 %	0.7 %	0.4 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473137-02 WG2010999
Analysis started at: 12/19/2024 5:33:40 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	0.0001 ppm	0.0046 ppm	0.0017 ppm	0.0154 ppm	0.0597 ppm	0.0000 ppm	73.9667 ppm
Concentration per Run 1	0.0001 ppm	0.0062 ppm	0.0023 ppm	0.0150 ppm	0.0592 ppm	0.0000 ppm	73.9060 ppm
Concentration per Run 2	0.0002 ppm	0.0035 ppm	0.0010 ppm	0.0157 ppm	0.0603 ppm	0.0000 ppm	73.6807 ppm
Concentration per Run 3	0.0002 ppm	0.0042 ppm	0.0018 ppm	0.0155 ppm	0.0595 ppm	0.0001 ppm	74.3135 ppm
Concentration RSD	52.1 %	29.7 %	38.5 %	2.2 %	1.0 %	71.7 %	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	-0.0002 ppm	0.0020 ppm	0.0003 ppm	0.0006 ppm	0.0050 ppm	0.5879 ppm	0.0045 ppm
Concentration per Run 1	-0.0003 ppm	0.0022 ppm	0.0002 ppm	0.0007 ppm	0.0056 ppm	0.5939 ppm	0.0052 ppm
Concentration per Run 2	-0.0002 ppm	0.0022 ppm	0.0003 ppm	0.0006 ppm	0.0047 ppm	0.5961 ppm	0.0034 ppm
Concentration per Run 3	-0.0002 ppm	0.0017 ppm	0.0002 ppm	0.0005 ppm	0.0048 ppm	0.5739 ppm	0.0048 ppm
Concentration RSD	23.8 %	12.3 %	7.3 %	16.2 %	9.8 %	2.1 %	20.6 %

	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	0.8256 ppm	0.3690 ppm	0.0005 ppm	128.2618 ppm	0.0022 ppm	0.0067 ppm	0.0021 ppm
Concentration per Run 1	0.8253 ppm	0.3687 ppm	0.0003 ppm	127.7418 ppm	0.0021 ppm	0.0060 ppm	0.0020 ppm
Concentration per Run 2	0.8308 ppm	0.3688 ppm	0.0004 ppm	129.1671 ppm	0.0021 ppm	0.0067 ppm	0.0027 ppm
Concentration per Run 3	0.8208 ppm	0.3696 ppm	0.0008 ppm	127.8766 ppm	0.0023 ppm	0.0073 ppm	0.0016 ppm
Concentration RSD	0.6 %	0.1 %	51.5 %	0.6 %	5.3 %	10.3 %	26.5 %

	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	0.4276 ppm	0.0005 ppm	0.1446 ppm	-0.0003 ppm	-0.0021 ppm	0.0000 ppm
Concentration per Run 1	0.0027 ppm	0.4294 ppm	0.0011 ppm	0.1436 ppm	-0.0003 ppm	-0.0024 ppm	0.0001 ppm
Concentration per Run 2	0.0010 ppm	0.4290 ppm	-0.0005 ppm	0.1456 ppm	-0.0002 ppm	-0.0019 ppm	-0.0001 ppm
Concentration per Run 3	0.0017 ppm	0.4243 ppm	0.0008 ppm	0.1445 ppm	-0.0003 ppm	-0.0021 ppm	0.0002 ppm
Concentration RSD	48.7 %	0.7 %	183.5 %	0.7 %	28.0 %	12.4 %	228.0 %

	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	0.0113 ppm	96.0743 %	99.0721 %	83.2314 %	89.9058 %	96.4110 %	91.8690 %
Concentration per Run 1	0.0113 ppm	95.5459 %	99.0227 %	82.7873 %	89.9269 %	96.2375 %	91.5430 %
Concentration per Run 2	0.0114 ppm	95.9444 %	99.4412 %	83.3233 %	89.8321 %	97.1246 %	92.0752 %
Concentration per Run 3	0.0113 ppm	96.7325 %	98.7524 %	83.5835 %	89.9584 %	95.8708 %	91.9890 %
Concentration RSD	0.4 %	0.6 %	0.4 %	0.5 %	0.1 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473137-03 WG2010999
Analysis started at: 12/19/2024 5:38:08 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	0.0001 ppm	0.0167 ppm	0.0009 ppm	0.0087 ppm	0.0403 ppm	0.0000 ppm	49.5172 ppm
Concentration per Run 1	-0.0001 ppm	0.0103 ppm	0.0015 ppm	0.0084 ppm	0.0404 ppm	0.0000 ppm	49.4840 ppm
Concentration per Run 2	0.0000 ppm	0.0204 ppm	0.0014 ppm	0.0093 ppm	0.0405 ppm	0.0000 ppm	49.7179 ppm
Concentration per Run 3	0.0002 ppm	0.0195 ppm	-0.0002 ppm	0.0085 ppm	0.0402 ppm	0.0000 ppm	49.3496 ppm
Concentration RSD	215.5 %	33.4 %	104.0 %	5.4 %	0.3 %	7.0 %	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	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0021 ppm	0.0078 ppm	0.4383 ppm	0.0040 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0020 ppm	0.0083 ppm	0.4537 ppm	0.0041 ppm
Concentration per Run 2	0.0000 ppm	0.0007 ppm	0.0000 ppm	0.0023 ppm	0.0077 ppm	0.4364 ppm	0.0043 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0003 ppm	0.0020 ppm	0.0075 ppm	0.4250 ppm	0.0036 ppm
Concentration RSD	34.7 %	194.4 %	75.5 %	8.3 %	5.3 %	3.3 %	9.7 %

	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	0.9286 ppm	0.0689 ppm	0.0000 ppm	128.7056 ppm	0.0013 ppm	0.0043 ppm	0.0016 ppm
Concentration per Run 1	0.9366 ppm	0.0689 ppm	0.0001 ppm	128.2192 ppm	0.0017 ppm	0.0040 ppm	0.0016 ppm
Concentration per Run 2	0.9252 ppm	0.0693 ppm	0.0001 ppm	129.6156 ppm	0.0007 ppm	0.0052 ppm	0.0014 ppm
Concentration per Run 3	0.9239 ppm	0.0687 ppm	-0.0001 ppm	128.2820 ppm	0.0015 ppm	0.0039 ppm	0.0019 ppm
Concentration RSD	0.8 %	0.4 %	1,456.3 %	0.6 %	37.4 %	17.1 %	17.5 %

	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	0.6066 ppm	0.0001 ppm	0.1006 ppm	0.0000 ppm	-0.0017 ppm	0.0000 ppm
Concentration per Run 1	0.0001 ppm	0.6142 ppm	0.0003 ppm	0.1010 ppm	0.0002 ppm	-0.0014 ppm	0.0001 ppm
Concentration per Run 2	0.0003 ppm	0.6053 ppm	0.0003 ppm	0.1009 ppm	-0.0001 ppm	-0.0027 ppm	0.0000 ppm
Concentration per Run 3	0.0027 ppm	0.6002 ppm	-0.0003 ppm	0.1000 ppm	-0.0001 ppm	-0.0009 ppm	0.0001 ppm
Concentration RSD	137.1 %	1.2 %	382.4 %	0.6 %	1,225.3 %	53.9 %	204.7 %

	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	0.0295 ppm	96.4089 %	99.3571 %	84.6525 %	90.2925 %	96.5123 %	92.9146 %
Concentration per Run 1	0.0293 ppm	95.9976 %	99.4592 %	84.3329 %	90.2306 %	96.4526 %	92.4674 %
Concentration per Run 2	0.0297 ppm	96.6636 %	99.0606 %	84.7115 %	90.4845 %	96.4714 %	93.2926 %
Concentration per Run 3	0.0296 ppm	96.5655 %	99.5517 %	84.9131 %	90.1622 %	96.6130 %	92.9840 %
Concentration RSD	0.8 %	0.4 %	0.3 %	0.3 %	0.2 %	0.1 %	0.4 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473137-04 WG2010999
Analysis started at: 12/19/2024 5:42:36 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	0.0003 ppm	0.0066 ppm	0.0024 ppm	0.0090 ppm	0.0456 ppm	0.0000 ppm	60.3096 ppm
Concentration per Run 1	0.0003 ppm	0.0047 ppm	0.0028 ppm	0.0094 ppm	0.0456 ppm	0.0000 ppm	59.9840 ppm
Concentration per Run 2	0.0001 ppm	0.0088 ppm	0.0013 ppm	0.0088 ppm	0.0459 ppm	0.0000 ppm	60.6301 ppm
Concentration per Run 3	0.0003 ppm	0.0064 ppm	0.0032 ppm	0.0088 ppm	0.0453 ppm	0.0000 ppm	60.3146 ppm
Concentration RSD	46.8 %	31.6 %	40.2 %	4.1 %	0.6 %	23.6 %	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	-0.0001 ppm	0.0005 ppm	0.0009 ppm	0.0021 ppm	0.0066 ppm	0.5614 ppm	0.0047 ppm
Concentration per Run 1	-0.0001 ppm	0.0007 ppm	0.0008 ppm	0.0021 ppm	0.0063 ppm	0.5649 ppm	0.0044 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0010 ppm	0.0021 ppm	0.0071 ppm	0.5658 ppm	0.0045 ppm
Concentration per Run 3	-0.0002 ppm	0.0004 ppm	0.0008 ppm	0.0021 ppm	0.0064 ppm	0.5535 ppm	0.0051 ppm
Concentration RSD	71.4 %	42.0 %	14.2 %	0.5 %	6.4 %	1.2 %	8.5 %

	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	0.5943 ppm	0.0744 ppm	-0.0003 ppm	129.5945 ppm	0.0016 ppm	0.0070 ppm	0.0024 ppm
Concentration per Run 1	0.5991 ppm	0.0743 ppm	-0.0002 ppm	128.2472 ppm	0.0015 ppm	0.0075 ppm	0.0027 ppm
Concentration per Run 2	0.5923 ppm	0.0748 ppm	-0.0004 ppm	130.9079 ppm	0.0016 ppm	0.0069 ppm	0.0019 ppm
Concentration per Run 3	0.5915 ppm	0.0742 ppm	-0.0003 ppm	129.6285 ppm	0.0017 ppm	0.0067 ppm	0.0025 ppm
Concentration RSD	0.7 %	0.4 %	19.5 %	1.0 %	5.3 %	5.8 %	18.6 %

	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	0.5726 ppm	0.0002 ppm	0.1255 ppm	-0.0003 ppm	-0.0019 ppm	0.0003 ppm
Concentration per Run 1	0.0002 ppm	0.5756 ppm	0.0002 ppm	0.1255 ppm	-0.0005 ppm	-0.0015 ppm	0.0001 ppm
Concentration per Run 2	0.0016 ppm	0.5740 ppm	0.0001 ppm	0.1263 ppm	-0.0004 ppm	-0.0020 ppm	0.0003 ppm
Concentration per Run 3	0.0006 ppm	0.5683 ppm	0.0002 ppm	0.1249 ppm	0.0000 ppm	-0.0021 ppm	0.0004 ppm
Concentration RSD	84.2 %	0.7 %	30.1 %	0.5 %	79.1 %	16.8 %	54.2 %

	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	0.0336 ppm	96.5168 %	98.9304 %	84.0120 %	90.1294 %	96.5671 %	92.4392 %
Concentration per Run 1	0.0336 ppm	96.2021 %	99.4473 %	83.8750 %	90.6151 %	96.7037 %	92.4325 %
Concentration per Run 2	0.0339 ppm	96.8308 %	98.2991 %	84.2068 %	90.2655 %	96.1246 %	92.8920 %
Concentration per Run 3	0.0334 ppm	96.5174 %	99.0447 %	83.9542 %	89.5076 %	96.8731 %	91.9932 %
Concentration RSD	0.7 %	0.3 %	0.6 %	0.2 %	0.6 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473137-05 WG2010999
Analysis started at: 12/19/2024 5:47:07 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	0.0003 ppm	0.0113 ppm	0.0010 ppm	0.0139 ppm	0.0546 ppm	0.0000 ppm	41.7212 ppm
Concentration per Run 1	0.0005 ppm	0.0137 ppm	0.0010 ppm	0.0142 ppm	0.0551 ppm	0.0000 ppm	41.5860 ppm
Concentration per Run 2	0.0001 ppm	0.0092 ppm	0.0012 ppm	0.0146 ppm	0.0545 ppm	0.0000 ppm	42.0420 ppm
Concentration per Run 3	0.0002 ppm	0.0111 ppm	0.0008 ppm	0.0128 ppm	0.0543 ppm	0.0001 ppm	41.5357 ppm
Concentration RSD	65.3 %	19.7 %	22.8 %	6.7 %	0.8 %	36.1 %	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	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0008 ppm	0.0065 ppm	0.4167 ppm	0.0041 ppm
Concentration per Run 1	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0007 ppm	0.0072 ppm	0.4306 ppm	0.0040 ppm
Concentration per Run 2	-0.0002 ppm	0.0002 ppm	0.0001 ppm	0.0008 ppm	0.0052 ppm	0.4055 ppm	0.0041 ppm
Concentration per Run 3	-0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0008 ppm	0.0072 ppm	0.4142 ppm	0.0041 ppm
Concentration RSD	32.0 %	79.1 %	332.9 %	8.3 %	18.1 %	3.1 %	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	2.1704 ppm	0.1401 ppm	-0.0004 ppm	128.5309 ppm	0.0018 ppm	0.0012 ppm	0.0019 ppm
Concentration per Run 1	2.1814 ppm	0.1398 ppm	-0.0005 ppm	128.6829 ppm	0.0014 ppm	0.0014 ppm	0.0007 ppm
Concentration per Run 2	2.1664 ppm	0.1409 ppm	-0.0003 ppm	128.9289 ppm	0.0016 ppm	0.0007 ppm	0.0022 ppm
Concentration per Run 3	2.1632 ppm	0.1397 ppm	-0.0004 ppm	127.9810 ppm	0.0023 ppm	0.0014 ppm	0.0026 ppm
Concentration RSD	0.4 %	0.5 %	21.9 %	0.4 %	26.3 %	33.0 %	52.6 %

	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	0.4553 ppm	-0.0001 ppm	0.1148 ppm	-0.0002 ppm	-0.0021 ppm	0.0000 ppm
Concentration per Run 1	0.0014 ppm	0.4542 ppm	-0.0003 ppm	0.1155 ppm	-0.0002 ppm	-0.0018 ppm	0.0001 ppm
Concentration per Run 2	0.0001 ppm	0.4562 ppm	0.0003 ppm	0.1144 ppm	-0.0001 ppm	-0.0021 ppm	-0.0001 ppm
Concentration per Run 3	0.0022 ppm	0.4556 ppm	-0.0003 ppm	0.1145 ppm	-0.0003 ppm	-0.0025 ppm	0.0000 ppm
Concentration RSD	86.2 %	0.2 %	293.2 %	0.5 %	31.7 %	15.0 %	635.0 %

	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	0.0160 ppm	95.9328 %	99.4760 %	84.4035 %	89.9696 %	97.1713 %	92.6531 %
Concentration per Run 1	0.0162 ppm	95.7131 %	99.6198 %	84.7569 %	90.2405 %	97.5102 %	92.4203 %
Concentration per Run 2	0.0156 ppm	95.9777 %	98.9088 %	84.4782 %	89.7997 %	96.3123 %	93.0512 %
Concentration per Run 3	0.0162 ppm	96.1077 %	99.8992 %	83.9754 %	89.8686 %	97.6914 %	92.4877 %
Concentration RSD	2.1 %	0.2 %	0.5 %	0.5 %	0.3 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: CCV
Analysis started at: 12/19/2024 5:51:35 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	0.5027 ppm	0.4954 ppm	0.4801 ppm	0.5008 ppm	0.4915 ppm	0.5190 ppm	0.5210 ppm
Concentration per Run 1	0.5060 ppm	0.4965 ppm	0.4803 ppm	0.5012 ppm	0.4925 ppm	0.5187 ppm	0.5212 ppm
Concentration per Run 2	0.5061 ppm	0.4936 ppm	0.4821 ppm	0.5045 ppm	0.4878 ppm	0.5184 ppm	0.5218 ppm
Concentration per Run 3	0.4959 ppm	0.4960 ppm	0.4778 ppm	0.4967 ppm	0.4941 ppm	0.5199 ppm	0.5199 ppm
Recovery Percentage 1	100.535 %	99.078 %	96.012 %	100.164 %	98.299 %	103.802 %	104.197 %
Concentration RSD	1.2 %	0.3 %	0.4 %	0.8 %	0.7 %	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	0.5172 ppm	0.5265 ppm	0.5113 ppm	0.4994 ppm	0.5303 ppm	5.2067 ppm	0.5006 ppm
Concentration per Run 1	0.5231 ppm	0.5324 ppm	0.5161 ppm	0.4998 ppm	0.5319 ppm	5.2248 ppm	0.5051 ppm
Concentration per Run 2	0.5196 ppm	0.5284 ppm	0.5136 ppm	0.5020 ppm	0.5289 ppm	5.1744 ppm	0.4938 ppm
Concentration per Run 3	0.5089 ppm	0.5188 ppm	0.5041 ppm	0.4965 ppm	0.5302 ppm	5.2209 ppm	0.5029 ppm
Recovery Percentage 1	103.443 %	105.309 %	102.255 %	99.886 %	106.066 %	104.134 %	100.118 %
Concentration RSD	1.4 %	1.3 %	1.2 %	0.6 %	0.3 %	0.5 %	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	0.5220 ppm	0.5070 ppm	0.5092 ppm	10.2242 ppm	0.5260 ppm	0.4953 ppm	0.5088 ppm
Concentration per Run 1	0.5276 ppm	0.5076 ppm	0.5080 ppm	10.1992 ppm	0.5308 ppm	0.4968 ppm	0.5077 ppm
Concentration per Run 2	0.5266 ppm	0.5070 ppm	0.5118 ppm	10.1028 ppm	0.5300 ppm	0.4962 ppm	0.5129 ppm
Concentration per Run 3	0.5118 ppm	0.5063 ppm	0.5077 ppm	10.3707 ppm	0.5173 ppm	0.4929 ppm	0.5057 ppm
Recovery Percentage 1	104.403 %	101.394 %	101.834 %	102.242 %	105.209 %	99.054 %	101.752 %
Concentration RSD	1.7 %	0.1 %	0.5 %	1.3 %	1.4 %	0.4 %	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	0.4893 ppm	5.6629 ppm	0.5387 ppm	0.5222 ppm	0.5099 ppm	0.4892 ppm	0.5082 ppm
Concentration per Run 1	0.4894 ppm	5.6771 ppm	0.5436 ppm	0.5217 ppm	0.5123 ppm	0.4881 ppm	0.5125 ppm
Concentration per Run 2	0.4912 ppm	5.6987 ppm	0.5414 ppm	0.5192 ppm	0.5121 ppm	0.4903 ppm	0.5097 ppm
Concentration per Run 3	0.4872 ppm	5.6129 ppm	0.5312 ppm	0.5257 ppm	0.5051 ppm	0.4890 ppm	0.5025 ppm
Recovery Percentage 1	97.853 %	107.865 %	107.749 %	104.441 %	101.971 %	97.830 %	101.641 %
Concentration RSD	0.4 %	0.8 %	1.2 %	0.6 %	0.8 %	0.2 %	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	0.5232 ppm	101.2960 %	102.6964 %	95.9640 %	97.1800 %	100.8613 %	99.8068 %
Concentration per Run 1	0.5311 ppm	100.1723 %	102.2487 %	95.4507 %	96.4833 %	100.5624 %	99.5919 %
Concentration per Run 2	0.5249 ppm	101.2445 %	102.6579 %	95.9387 %	97.2660 %	100.7305 %	99.9113 %
Concentration per Run 3	0.5137 ppm	102.4713 %	103.1826 %	96.5025 %	97.7907 %	101.2909 %	99.9172 %
Recovery Percentage 1	104.646 %						
Concentration RSD	1.7 %	1.1 %	0.5 %	0.5 %	0.7 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: CCB
Analysis started at: 12/19/2024 5:56:02 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	0.0002 ppm	0.0014 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0023 ppm
Concentration per Run 1	0.0003 ppm	0.0016 ppm	-0.0002 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0016 ppm
Concentration per Run 2	0.0003 ppm	-0.0002 ppm	0.0021 ppm	0.0013 ppm	0.0000 ppm	0.0001 ppm	0.0017 ppm
Concentration per Run 3	0.0000 ppm	-0.0008 ppm	0.0024 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0034 ppm
Recovery Percentage 1	3.807 %	0.212 %	28.410 %	2.995 %	-0.152 %	0.977 %	2.266 %
Concentration RSD	67.1 %	585.4 %	102.1 %	48.3 %	98.6 %	22.0 %	44.3 %

	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	0.0003 ppm	0.0052 ppm	0.0043 ppm	0.0004 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0004 ppm	0.0054 ppm	0.0022 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0045 ppm	0.0015 ppm	0.0005 ppm
Concentration per Run 3	0.0000 ppm	0.0007 ppm	0.0003 ppm	0.0004 ppm	0.0057 ppm	0.0092 ppm	0.0004 ppm
Recovery Percentage 1	1.213 %	2.708 %	1.023 %	3.443 %	10.413 %	0.172 %	3.543 %
Concentration RSD	95.6 %	168.1 %	131.0 %	28.3 %	12.6 %	99.1 %	54.3 %

	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	0.0000 ppm	0.0019 ppm	0.0090 ppm	0.0003 ppm	-0.0003 ppm	0.0029 ppm
Concentration per Run 1	-0.0008 ppm	-0.0001 ppm	0.0017 ppm	0.0102 ppm	0.0000 ppm	-0.0005 ppm	0.0026 ppm
Concentration per Run 2	-0.0015 ppm	0.0000 ppm	0.0019 ppm	0.0100 ppm	0.0008 ppm	-0.0005 ppm	0.0037 ppm
Concentration per Run 3	0.0018 ppm	0.0000 ppm	0.0020 ppm	0.0069 ppm	0.0002 ppm	0.0001 ppm	0.0025 ppm
Recovery Percentage 1	-0.173 %	-0.495 %	3.771 %	0.451 %	1.220 %	-2.943 %	5.821 %
Concentration RSD	1,002.5 %	69.5 %	8.2 %	20.6 %	141.1 %	103.3 %	23.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0008 ppm	-0.0022 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 1	-0.0004 ppm	-0.0006 ppm	0.0004 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 2	-0.0001 ppm	-0.0033 ppm	-0.0006 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 3	-0.0018 ppm	-0.0027 ppm	-0.0004 ppm	0.0000 ppm	0.0001 ppm	-0.0008 ppm	-0.0001 ppm
Recovery Percentage 1	-7.722 %	-0.440 %	-0.423 %	0.226 %	-0.004 %	-1.568 %	-0.190 %
Concentration RSD	116.9 %	65.3 %	245.4 %	132.3 %	26,496.6 %	123.7 %	438.6 %

	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	0.0008 ppm	99.2231 %	101.0415 %	97.3646 %	99.8085 %	100.7341 %	101.6300 %
Concentration per Run 1	0.0008 ppm	97.9662 %	101.3772 %	96.6773 %	99.7884 %	101.3291 %	101.5229 %
Concentration per Run 2	0.0009 ppm	99.3031 %	100.4692 %	97.1422 %	99.8395 %	100.1383 %	101.6182 %
Concentration per Run 3	0.0007 ppm	100.3999 %	101.2782 %	98.2744 %	99.7978 %	100.7348 %	101.7489 %
Recovery Percentage 1	15.844 %						
Concentration RSD	15.4 %	1.2 %	0.5 %	0.8 %	0.0 %	0.6 %	0.1 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2011336-1 WG2011336
Analysis started at: 12/19/2024 6:15:49 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	0.0002 ppm	0.0256 ppm	0.0025 ppm	0.0010 ppm	0.0005 ppm	0.0000 ppm	0.0406 ppm
Concentration per Run 1	0.0003 ppm	0.0253 ppm	0.0024 ppm	0.0011 ppm	0.0005 ppm	0.0000 ppm	0.0402 ppm
Concentration per Run 2	0.0001 ppm	0.0248 ppm	0.0030 ppm	0.0010 ppm	0.0005 ppm	0.0000 ppm	0.0409 ppm
Concentration per Run 3	0.0002 ppm	0.0267 ppm	0.0021 ppm	0.0009 ppm	0.0005 ppm	0.0000 ppm	0.0407 ppm
Recovery Percentage 1	3.946 %	25.597 %	50.225 %	3.385 %	5.265 %	0.601 %	40.617 %
Concentration RSD	37.4 %	3.8 %	18.1 %	11.1 %	5.7 %	21.4 %	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	0.0000 ppm	0.0002 ppm	0.0005 ppm	0.0001 ppm	0.0545 ppm	0.0024 ppm	0.0002 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0004 ppm	0.0002 ppm	0.0549 ppm	0.0049 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0001 ppm	0.0539 ppm	0.0127 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0007 ppm	0.0000 ppm	0.0546 ppm	-0.0105 ppm	0.0000 ppm
Recovery Percentage 1	0.724 %	2.356 %	5.378 %	1.092 %	108.926 %	0.095 %	2.215 %
Concentration RSD	68.2 %	57.6 %	28.5 %	92.7 %	0.9 %	499.7 %	150.5 %

	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	0.0106 ppm	0.0012 ppm	-0.0002 ppm	0.0130 ppm	0.0001 ppm	-0.0001 ppm	0.0020 ppm
Concentration per Run 1	0.0119 ppm	0.0011 ppm	-0.0001 ppm	0.0117 ppm	-0.0004 ppm	-0.0004 ppm	0.0028 ppm
Concentration per Run 2	0.0098 ppm	0.0012 ppm	-0.0005 ppm	0.0138 ppm	0.0007 ppm	-0.0001 ppm	0.0017 ppm
Concentration per Run 3	0.0099 ppm	0.0012 ppm	-0.0002 ppm	0.0134 ppm	0.0000 ppm	0.0002 ppm	0.0016 ppm
Recovery Percentage 1	10.574 %	11.889 %	-0.484 %	0.649 %	0.329 %	-1.248 %	4.046 %
Concentration RSD	11.2 %	4.7 %	83.4 %	8.5 %	668.7 %	228.9 %	32.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0009 ppm	0.0244 ppm	0.0000 ppm	0.0002 ppm	0.0012 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 1	-0.0009 ppm	0.0233 ppm	-0.0004 ppm	0.0002 ppm	0.0013 ppm	-0.0011 ppm	0.0001 ppm
Concentration per Run 2	-0.0017 ppm	0.0239 ppm	0.0000 ppm	0.0002 ppm	0.0013 ppm	-0.0013 ppm	0.0001 ppm
Concentration per Run 3	-0.0001 ppm	0.0259 ppm	0.0003 ppm	0.0002 ppm	0.0010 ppm	-0.0005 ppm	0.0001 ppm
Recovery Percentage 1	-8.792 %	4.875 %	-0.059 %	2.065 %	11.820 %	-4.838 %	0.849 %
Concentration RSD	91.1 %	5.4 %	1,170.8 %	10.4 %	16.3 %	43.1 %	7.9 %

	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	0.0016 ppm	110.5868 %	103.1666 %	105.8497 %	101.9407 %	100.8287 %	102.9855 %
Concentration per Run 1	0.0017 ppm	110.8763 %	103.4174 %	106.2367 %	101.6795 %	100.6589 %	103.1351 %
Concentration per Run 2	0.0013 ppm	110.2717 %	103.9386 %	105.4454 %	101.6196 %	101.5879 %	102.4491 %
Concentration per Run 3	0.0016 ppm	110.6124 %	102.1439 %	105.8669 %	102.5229 %	100.2393 %	103.3723 %
Recovery Percentage 1	31.443 %						
Concentration RSD	13.3 %	0.3 %	0.9 %	0.4 %	0.5 %	0.7 %	0.5 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2011336-2d2 WG2011336
Analysis started at: 12/19/2024 6:21:02 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	0.0491 ppm	2.0525 ppm	0.1169 ppm	0.9623 ppm	1.9275 ppm	0.0512 ppm	10.3508 ppm
Concentration per Run 1	0.0498 ppm	2.0636 ppm	0.1164 ppm	0.9666 ppm	1.9306 ppm	0.0510 ppm	10.3382 ppm
Concentration per Run 2	0.0488 ppm	2.0457 ppm	0.1172 ppm	0.9613 ppm	1.9272 ppm	0.0511 ppm	10.2856 ppm
Concentration per Run 3	0.0488 ppm	2.0483 ppm	0.1170 ppm	0.9590 ppm	1.9246 ppm	0.0514 ppm	10.4287 ppm
Concentration RSD	1.1 %	0.5 %	0.3 %	0.4 %	0.2 %	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	0.0532 ppm	0.5060 ppm	0.1999 ppm	0.2510 ppm	1.0514 ppm	10.2516 ppm	0.0003 ppm
Concentration per Run 1	0.0534 ppm	0.5083 ppm	0.2007 ppm	0.2528 ppm	1.0499 ppm	10.2993 ppm	0.0001 ppm
Concentration per Run 2	0.0535 ppm	0.5060 ppm	0.1992 ppm	0.2505 ppm	1.0512 ppm	10.2489 ppm	0.0005 ppm
Concentration per Run 3	0.0526 ppm	0.5036 ppm	0.1998 ppm	0.2496 ppm	1.0532 ppm	10.2066 ppm	0.0003 ppm
Concentration RSD	0.9 %	0.5 %	0.4 %	0.7 %	0.2 %	0.5 %	74.8 %

	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	10.3142 ppm	0.5002 ppm	1.0114 ppm	10.0331 ppm	0.4949 ppm	0.5285 ppm	0.4745 ppm
Concentration per Run 1	10.3418 ppm	0.4986 ppm	1.0106 ppm	10.1282 ppm	0.4979 ppm	0.5298 ppm	0.4765 ppm
Concentration per Run 2	10.3318 ppm	0.4982 ppm	1.0103 ppm	9.9979 ppm	0.4936 ppm	0.5313 ppm	0.4741 ppm
Concentration per Run 3	10.2690 ppm	0.5037 ppm	1.0133 ppm	9.9732 ppm	0.4931 ppm	0.5243 ppm	0.4730 ppm
Concentration RSD	0.4 %	0.6 %	0.2 %	0.8 %	0.5 %	0.7 %	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	0.1166 ppm	0.9017 ppm	1.0046 ppm	0.9831 ppm	1.0172 ppm	0.1188 ppm	0.5099 ppm
Concentration per Run 1	0.1178 ppm	0.9099 ppm	1.0118 ppm	0.9829 ppm	1.0234 ppm	0.1193 ppm	0.5120 ppm
Concentration per Run 2	0.1169 ppm	0.9008 ppm	1.0037 ppm	0.9849 ppm	1.0142 ppm	0.1191 ppm	0.5110 ppm
Concentration per Run 3	0.1150 ppm	0.8945 ppm	0.9983 ppm	0.9816 ppm	1.0139 ppm	0.1180 ppm	0.5067 ppm
Concentration RSD	1.3 %	0.9 %	0.7 %	0.2 %	0.5 %	0.6 %	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	0.4968 ppm	100.2587 %	101.3985 %	91.9913 %	96.0588 %	99.2505 %	98.2052 %
Concentration per Run 1	0.4998 ppm	100.0092 %	101.6865 %	91.7725 %	96.4761 %	99.3650 %	98.2877 %
Concentration per Run 2	0.4979 ppm	100.1913 %	101.9551 %	91.4462 %	96.2520 %	99.8161 %	97.6561 %
Concentration per Run 3	0.4928 ppm	100.5756 %	100.5540 %	92.7552 %	95.4483 %	98.5702 %	98.6718 %
Concentration RSD	0.7 %	0.3 %	0.7 %	0.7 %	0.6 %	0.6 %	0.5 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474520-03d2 WG2011336
Analysis started at: 12/19/2024 6:25:29 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	0.0014 ppm	43.4707 ppm	0.0763 ppm	0.0433 ppm	0.0776 ppm	0.0037 ppm	2.8954 ppm
Concentration per Run 1	0.0016 ppm	43.4717 ppm	0.0779 ppm	0.0448 ppm	0.0776 ppm	0.0037 ppm	2.8944 ppm
Concentration per Run 2	0.0012 ppm	43.4718 ppm	0.0771 ppm	0.0419 ppm	0.0775 ppm	0.0037 ppm	2.8933 ppm
Concentration per Run 3	0.0015 ppm	43.4685 ppm	0.0739 ppm	0.0434 ppm	0.0777 ppm	0.0037 ppm	2.8984 ppm
Concentration RSD	13.1 %	0.0 %	2.8 %	3.4 %	0.1 %	1.1 %	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	0.0007 ppm	0.0079 ppm	0.3302 ppm	0.0417 ppm	174.4845 ppm	9.5438 ppm	0.0118 ppm
Concentration per Run 1	0.0005 ppm	0.0079 ppm	0.3344 ppm	0.0422 ppm	174.4373 ppm	9.5189 ppm	0.0122 ppm
Concentration per Run 2	0.0007 ppm	0.0080 ppm	0.3298 ppm	0.0410 ppm	174.0043 ppm	9.5893 ppm	0.0116 ppm
Concentration per Run 3	0.0008 ppm	0.0079 ppm	0.3265 ppm	0.0420 ppm	175.0117 ppm	9.5232 ppm	0.0114 ppm
Concentration RSD	21.7 %	0.6 %	1.2 %	1.6 %	0.3 %	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	3.2272 ppm	0.2743 ppm	0.0039 ppm	0.0780 ppm	0.0182 ppm	0.1037 ppm	0.0091 ppm
Concentration per Run 1	3.2588 ppm	0.2737 ppm	0.0039 ppm	0.0789 ppm	0.0189 ppm	0.1043 ppm	0.0097 ppm
Concentration per Run 2	3.2211 ppm	0.2746 ppm	0.0039 ppm	0.0784 ppm	0.0182 ppm	0.1032 ppm	0.0082 ppm
Concentration per Run 3	3.2016 ppm	0.2747 ppm	0.0037 ppm	0.0767 ppm	0.0176 ppm	0.1034 ppm	0.0093 ppm
Concentration RSD	0.9 %	0.2 %	2.9 %	1.5 %	3.4 %	0.6 %	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	0.0011 ppm	4.6356 ppm	0.0058 ppm	0.0112 ppm	0.7718 ppm	0.0022 ppm	0.5020 ppm
Concentration per Run 1	0.0013 ppm	4.7308 ppm	0.0057 ppm	0.0112 ppm	0.7799 ppm	0.0026 ppm	0.5062 ppm
Concentration per Run 2	-0.0009 ppm	4.7135 ppm	0.0057 ppm	0.0112 ppm	0.7666 ppm	0.0024 ppm	0.5016 ppm
Concentration per Run 3	0.0028 ppm	4.4624 ppm	0.0061 ppm	0.0112 ppm	0.7689 ppm	0.0015 ppm	0.4984 ppm
Concentration RSD	169.4 %	3.2 %	4.4 %	0.3 %	0.9 %	27.5 %	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	0.1713 ppm	103.6949 %	106.3896 %	90.0693 %	107.7056 %	114.0080 %	109.3365 %
Concentration per Run 1	0.1737 ppm	102.8668 %	106.6581 %	90.0665 %	107.5956 %	114.3678 %	109.6870 %
Concentration per Run 2	0.1711 ppm	104.2582 %	106.2694 %	90.4839 %	108.2519 %	113.7504 %	109.6268 %
Concentration per Run 3	0.1691 ppm	103.9598 %	106.2413 %	89.6575 %	107.2693 %	113.9060 %	108.6958 %
Concentration RSD	1.4 %	0.7 %	0.2 %	0.5 %	0.5 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474520-02d2 WG2011336
Analysis started at: 12/19/2024 6:29:58 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	0.0011 ppm	31.5914 ppm	0.0716 ppm	0.0346 ppm	0.0641 ppm	0.0034 ppm	3.3790 ppm
Concentration per Run 1	0.0008 ppm	31.6235 ppm	0.0728 ppm	0.0348 ppm	0.0639 ppm	0.0034 ppm	3.3991 ppm
Concentration per Run 2	0.0011 ppm	31.5702 ppm	0.0736 ppm	0.0350 ppm	0.0641 ppm	0.0035 ppm	3.3559 ppm
Concentration per Run 3	0.0013 ppm	31.5806 ppm	0.0682 ppm	0.0340 ppm	0.0641 ppm	0.0034 ppm	3.3820 ppm
Concentration RSD	22.2 %	0.1 %	4.1 %	1.5 %	0.2 %	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	0.0006 ppm	0.0060 ppm	0.2196 ppm	0.0555 ppm	142.1103 ppm	7.2207 ppm	0.0089 ppm
Concentration per Run 1	0.0005 ppm	0.0060 ppm	0.2218 ppm	0.0557 ppm	142.1913 ppm	7.1798 ppm	0.0090 ppm
Concentration per Run 2	0.0006 ppm	0.0056 ppm	0.2186 ppm	0.0552 ppm	141.6947 ppm	7.2267 ppm	0.0091 ppm
Concentration per Run 3	0.0007 ppm	0.0065 ppm	0.2185 ppm	0.0555 ppm	142.4447 ppm	7.2556 ppm	0.0084 ppm
Concentration RSD	15.4 %	7.9 %	0.9 %	0.4 %	0.3 %	0.5 %	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	2.5244 ppm	0.2146 ppm	0.0012 ppm	0.1195 ppm	0.0166 ppm	0.1124 ppm	0.0047 ppm
Concentration per Run 1	2.5518 ppm	0.2157 ppm	0.0015 ppm	0.1248 ppm	0.0169 ppm	0.1157 ppm	0.0064 ppm
Concentration per Run 2	2.5211 ppm	0.2131 ppm	0.0009 ppm	0.1145 ppm	0.0163 ppm	0.1161 ppm	0.0041 ppm
Concentration per Run 3	2.5004 ppm	0.2149 ppm	0.0011 ppm	0.1190 ppm	0.0165 ppm	0.1054 ppm	0.0035 ppm
Concentration RSD	1.0 %	0.6 %	25.9 %	4.3 %	1.8 %	5.4 %	32.7 %

	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	5.2728 ppm	0.0058 ppm	0.0085 ppm	0.4380 ppm	0.0009 ppm	0.2931 ppm
Concentration per Run 1	0.0042 ppm	5.4704 ppm	0.0054 ppm	0.0085 ppm	0.4420 ppm	0.0006 ppm	0.2955 ppm
Concentration per Run 2	0.0010 ppm	5.2786 ppm	0.0067 ppm	0.0084 ppm	0.4386 ppm	0.0018 ppm	0.2922 ppm
Concentration per Run 3	-0.0006 ppm	5.0695 ppm	0.0052 ppm	0.0086 ppm	0.4335 ppm	0.0004 ppm	0.2916 ppm
Concentration RSD	158.4 %	3.8 %	15.0 %	0.8 %	1.0 %	85.9 %	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	0.1704 ppm	102.3999 %	104.6657 %	92.6104 %	103.2084 %	108.6621 %	106.2476 %
Concentration per Run 1	0.1715 ppm	101.6637 %	104.2172 %	90.7970 %	102.8314 %	108.5936 %	104.6458 %
Concentration per Run 2	0.1705 ppm	102.6806 %	105.1219 %	90.9681 %	103.8103 %	108.4408 %	104.5334 %
Concentration per Run 3	0.1691 ppm	102.8553 %	104.6580 %	96.0662 %	102.9836 %	108.9519 %	109.5635 %
Concentration RSD	0.7 %	0.6 %	0.4 %	3.2 %	0.5 %	0.2 %	2.7 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2473529-35d2 WG2011336
Analysis started at: 12/19/2024 6:34:25 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	0.0005 ppm	125.9003 ppm	0.0998 ppm	0.0069 ppm	1.2903 ppm	0.0094 ppm	12.5428 ppm
Concentration per Run 1	0.0000 ppm	125.8978 ppm	0.1013 ppm	0.0078 ppm	1.2865 ppm	0.0094 ppm	12.5743 ppm
Concentration per Run 2	0.0003 ppm	126.1779 ppm	0.0996 ppm	0.0059 ppm	1.2974 ppm	0.0094 ppm	12.4854 ppm
Concentration per Run 3	0.0010 ppm	125.6253 ppm	0.0983 ppm	0.0071 ppm	1.2870 ppm	0.0094 ppm	12.5685 ppm
Concentration RSD	115.3 %	0.2 %	1.5 %	13.7 %	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	0.0007 ppm	0.1840 ppm	0.2434 ppm	0.3451 ppm	346.1899 [SIC 500]	7.7612 ppm	0.1732 ppm
Concentration per Run 1	0.0005 ppm	0.1856 ppm	0.2452 ppm	0.3460 ppm	345.8376 ppm	7.7020 ppm	0.1728 ppm
Concentration per Run 2	0.0006 ppm	0.1824 ppm	0.2417 ppm	0.3434 ppm	346.5766 ppm	7.8569 ppm	0.1744 ppm
Concentration per Run 3	0.0010 ppm	0.1842 ppm	0.2434 ppm	0.3458 ppm	346.1555 ppm	7.7247 ppm	0.1725 ppm
Concentration RSD	40.3 %	0.9 %	0.7 %	0.4 %	0.1 %	1.1 %	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	38.0799 ppm	5.8497 ppm	0.0086 ppm	1.1096 ppm	0.2848 ppm	0.2068 ppm	0.0068 ppm
Concentration per Run 1	38.2296 ppm	5.8480 ppm	0.0091 ppm	1.1073 ppm	0.2872 ppm	0.2080 ppm	0.0064 ppm
Concentration per Run 2	37.8859 ppm	5.8566 ppm	0.0082 ppm	1.1156 ppm	0.2822 ppm	0.2063 ppm	0.0054 ppm
Concentration per Run 3	38.1243 ppm	5.8445 ppm	0.0087 ppm	1.1059 ppm	0.2851 ppm	0.2062 ppm	0.0086 ppm
Concentration RSD	0.5 %	0.1 %	5.5 %	0.5 %	0.9 %	0.5 %	24.3 %

	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	-0.0021 ppm	10.0843 ppm	0.0070 ppm	0.0892 ppm	0.7251 ppm	-0.0024 ppm	0.2701 ppm
Concentration per Run 1	-0.0022 ppm	10.2267 ppm	0.0077 ppm	0.0889 ppm	0.7334 ppm	-0.0021 ppm	0.2724 ppm
Concentration per Run 2	-0.0011 ppm	10.0536 ppm	0.0070 ppm	0.0900 ppm	0.7134 ppm	-0.0026 ppm	0.2694 ppm
Concentration per Run 3	-0.0032 ppm	9.9727 ppm	0.0063 ppm	0.0886 ppm	0.7286 ppm	-0.0024 ppm	0.2685 ppm
Concentration RSD	48.6 %	1.3 %	10.5 %	0.9 %	1.4 %	11.0 %	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	0.8245 ppm	105.6575 %	108.5100 %	86.3793 %	122.5333 %	130.8354 %	125.7202 %
Concentration per Run 1	0.8333 ppm	105.3100 %	108.3866 %	86.0484 %	122.8993 %	130.9069 %	125.8932 %
Concentration per Run 2	0.8157 ppm	106.3115 %	108.9679 %	86.5296 %	123.2030 %	131.3518 %	125.6276 %
Concentration per Run 3	0.8245 ppm	105.3508 %	108.1753 %	86.5598 %	121.4977 %	130.2475 %	125.6399 %
Concentration RSD	1.1 %	0.5 %	0.4 %	0.3 %	0.7 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474520-01d2 WG2011336
Analysis started at: 12/19/2024 6:38:53 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	0.0016 ppm	35.1769 ppm	0.0691 ppm	0.0409 ppm	0.0714 ppm	0.0072 ppm	2.9361 ppm
Concentration per Run 1	0.0015 ppm	35.2754 ppm	0.0688 ppm	0.0410 ppm	0.0716 ppm	0.0072 ppm	2.9633 ppm
Concentration per Run 2	0.0016 ppm	35.3039 ppm	0.0679 ppm	0.0415 ppm	0.0716 ppm	0.0072 ppm	2.9406 ppm
Concentration per Run 3	0.0016 ppm	34.9513 ppm	0.0707 ppm	0.0403 ppm	0.0711 ppm	0.0072 ppm	2.9044 ppm
Concentration RSD	2.8 %	0.6 %	2.1 %	1.5 %	0.4 %	0.3 %	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	0.0008 ppm	0.0092 ppm	0.2623 ppm	0.0440 ppm	192.6351 ppm	8.5263 ppm	0.0095 ppm
Concentration per Run 1	0.0008 ppm	0.0096 ppm	0.2637 ppm	0.0445 ppm	193.1791 ppm	8.5322 ppm	0.0098 ppm
Concentration per Run 2	0.0009 ppm	0.0091 ppm	0.2630 ppm	0.0434 ppm	193.0057 ppm	8.5284 ppm	0.0093 ppm
Concentration per Run 3	0.0008 ppm	0.0090 ppm	0.2603 ppm	0.0442 ppm	191.7205 ppm	8.5184 ppm	0.0094 ppm
Concentration RSD	2.4 %	3.7 %	0.7 %	1.3 %	0.4 %	0.1 %	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	2.7596 ppm	0.3206 ppm	0.0003 ppm	0.0487 ppm	0.0262 ppm	0.0928 ppm	0.0064 ppm
Concentration per Run 1	2.7788 ppm	0.3225 ppm	0.0003 ppm	0.0486 ppm	0.0262 ppm	0.0934 ppm	0.0068 ppm
Concentration per Run 2	2.7651 ppm	0.3208 ppm	0.0005 ppm	0.0480 ppm	0.0260 ppm	0.0919 ppm	0.0071 ppm
Concentration per Run 3	2.7350 ppm	0.3186 ppm	0.0000 ppm	0.0495 ppm	0.0265 ppm	0.0932 ppm	0.0052 ppm
Concentration RSD	0.8 %	0.6 %	86.1 %	1.6 %	0.9 %	0.9 %	16.2 %

	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	3.9590 ppm	0.0085 ppm	0.0082 ppm	0.4012 ppm	0.0000 ppm	0.2682 ppm
Concentration per Run 1	0.0019 ppm	4.0351 ppm	0.0081 ppm	0.0082 ppm	0.4058 ppm	-0.0001 ppm	0.2697 ppm
Concentration per Run 2	0.0006 ppm	3.9668 ppm	0.0089 ppm	0.0082 ppm	0.3997 ppm	-0.0001 ppm	0.2687 ppm
Concentration per Run 3	0.0004 ppm	3.8752 ppm	0.0087 ppm	0.0083 ppm	0.3980 ppm	0.0002 ppm	0.2662 ppm
Concentration RSD	82.5 %	2.0 %	4.7 %	0.5 %	1.0 %	1,508.8 %	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	0.2588 ppm	102.2449 %	103.4984 %	88.8315 %	104.2251 %	109.2338 %	104.8953 %
Concentration per Run 1	0.2600 ppm	102.0268 %	102.8899 %	88.9647 %	104.8169 %	109.2717 %	105.3854 %
Concentration per Run 2	0.2593 ppm	102.0854 %	103.0711 %	89.2935 %	103.8717 %	108.7411 %	105.0656 %
Concentration per Run 3	0.2571 ppm	102.6226 %	104.5341 %	88.2363 %	103.9866 %	109.6884 %	104.2349 %
Concentration RSD	0.6 %	0.3 %	0.9 %	0.6 %	0.5 %	0.4 %	0.6 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2011336-3d2 WG2011336
Analysis started at: 12/19/2024 6:43:20 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	0.0539 ppm	44.6448 ppm	0.1794 ppm	0.9278 ppm	2.1357 ppm	0.0620 ppm	12.8441 ppm
Concentration per Run 1	0.0540 ppm	44.6351 ppm	0.1799 ppm	0.9341 ppm	2.1374 ppm	0.0621 ppm	12.8346 ppm
Concentration per Run 2	0.0540 ppm	44.6175 ppm	0.1797 ppm	0.9299 ppm	2.1355 ppm	0.0622 ppm	12.8993 ppm
Concentration per Run 3	0.0538 ppm	44.6817 ppm	0.1785 ppm	0.9193 ppm	2.1341 ppm	0.0618 ppm	12.7983 ppm
Concentration RSD	0.2 %	0.1 %	0.4 %	0.8 %	0.1 %	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	0.0549 ppm	0.5262 ppm	0.5193 ppm	0.3216 ppm	211.5607 ppm	21.4777 ppm	0.0139 ppm
Concentration per Run 1	0.0552 ppm	0.5285 ppm	0.5231 ppm	0.3235 ppm	211.8073 ppm	21.4452 ppm	0.0144 ppm
Concentration per Run 2	0.0550 ppm	0.5294 ppm	0.5216 ppm	0.3210 ppm	212.3541 ppm	21.4508 ppm	0.0135 ppm
Concentration per Run 3	0.0544 ppm	0.5207 ppm	0.5133 ppm	0.3204 ppm	210.5206 ppm	21.5370 ppm	0.0138 ppm
Concentration RSD	0.8 %	0.9 %	1.0 %	0.5 %	0.4 %	0.2 %	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	12.9709 ppm	0.8664 ppm	0.9542 ppm	10.3549 ppm	0.5314 ppm	0.6278 ppm	0.4984 ppm
Concentration per Run 1	13.0591 ppm	0.8659 ppm	0.9461 ppm	10.4608 ppm	0.5352 ppm	0.6283 ppm	0.4970 ppm
Concentration per Run 2	13.0535 ppm	0.8684 ppm	0.9615 ppm	10.3242 ppm	0.5353 ppm	0.6273 ppm	0.5003 ppm
Concentration per Run 3	12.8001 ppm	0.8648 ppm	0.9549 ppm	10.2797 ppm	0.5239 ppm	0.6277 ppm	0.4980 ppm
Concentration RSD	1.1 %	0.2 %	0.8 %	0.9 %	1.2 %	0.1 %	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	0.1036 ppm	4.9189 ppm	0.9223 ppm	0.9666 ppm	1.2563 ppm	0.1157 ppm	0.8299 ppm
Concentration per Run 1	0.1033 ppm	4.9431 ppm	0.9283 ppm	0.9670 ppm	1.2672 ppm	0.1161 ppm	0.8373 ppm
Concentration per Run 2	0.1038 ppm	4.9853 ppm	0.9245 ppm	0.9693 ppm	1.2630 ppm	0.1167 ppm	0.8316 ppm
Concentration per Run 3	0.1036 ppm	4.8284 ppm	0.9140 ppm	0.9636 ppm	1.2386 ppm	0.1141 ppm	0.8208 ppm
Concentration RSD	0.2 %	1.7 %	0.8 %	0.3 %	1.2 %	1.2 %	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	0.7946 ppm	100.3225 %	102.8074 %	83.5693 %	101.3629 %	108.5554 %	102.6916 %
Concentration per Run 1	0.7985 ppm	100.1917 %	103.1161 %	83.2573 %	101.5985 %	108.7573 %	102.3617 %
Concentration per Run 2	0.8014 ppm	99.8114 %	102.3570 %	83.8713 %	100.5616 %	108.5533 %	103.0162 %
Concentration per Run 3	0.7840 ppm	100.9642 %	102.9490 %	83.5793 %	101.9286 %	108.3557 %	102.6968 %
Concentration RSD	1.2 %	0.6 %	0.4 %	0.4 %	0.7 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2011336-4d2 WG2011336
Analysis started at: 12/19/2024 6:47:54 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	0.0017 ppm	36.8295 ppm	0.0752 ppm	0.0407 ppm	0.0704 ppm	0.0084 ppm	2.8745 ppm
Concentration per Run 1	0.0016 ppm	36.9768 ppm	0.0756 ppm	0.0403 ppm	0.0705 ppm	0.0083 ppm	2.8628 ppm
Concentration per Run 2	0.0016 ppm	36.8249 ppm	0.0744 ppm	0.0411 ppm	0.0701 ppm	0.0083 ppm	2.8938 ppm
Concentration per Run 3	0.0020 ppm	36.6869 ppm	0.0755 ppm	0.0407 ppm	0.0705 ppm	0.0084 ppm	2.8668 ppm
Concentration RSD	11.8 %	0.4 %	0.9 %	1.0 %	0.3 %	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	0.0011 ppm	0.0092 ppm	0.3434 ppm	0.0452 ppm	223.0313 ppm	8.2913 ppm	0.0092 ppm
Concentration per Run 1	0.0011 ppm	0.0088 ppm	0.3467 ppm	0.0454 ppm	222.2773 ppm	8.2846 ppm	0.0093 ppm
Concentration per Run 2	0.0011 ppm	0.0091 ppm	0.3407 ppm	0.0451 ppm	223.9451 ppm	8.3326 ppm	0.0092 ppm
Concentration per Run 3	0.0011 ppm	0.0096 ppm	0.3427 ppm	0.0451 ppm	222.8716 ppm	8.2566 ppm	0.0092 ppm
Concentration RSD	3.6 %	4.4 %	0.9 %	0.4 %	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	2.6839 ppm	0.3171 ppm	0.0025 ppm	0.0503 ppm	0.0289 ppm	0.1031 ppm	0.0086 ppm
Concentration per Run 1	2.7040 ppm	0.3175 ppm	0.0028 ppm	0.0518 ppm	0.0296 ppm	0.1029 ppm	0.0104 ppm
Concentration per Run 2	2.6673 ppm	0.3177 ppm	0.0023 ppm	0.0512 ppm	0.0282 ppm	0.1035 ppm	0.0076 ppm
Concentration per Run 3	2.6802 ppm	0.3160 ppm	0.0023 ppm	0.0478 ppm	0.0289 ppm	0.1030 ppm	0.0080 ppm
Concentration RSD	0.7 %	0.3 %	12.6 %	4.3 %	2.5 %	0.3 %	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	4.8472 ppm	0.0065 ppm	0.0081 ppm	0.4284 ppm	0.0007 ppm	0.2956 ppm
Concentration per Run 1	0.0009 ppm	5.0332 ppm	0.0064 ppm	0.0082 ppm	0.4369 ppm	0.0003 ppm	0.2981 ppm
Concentration per Run 2	0.0014 ppm	4.8236 ppm	0.0068 ppm	0.0080 ppm	0.4216 ppm	0.0011 ppm	0.2948 ppm
Concentration per Run 3	0.0038 ppm	4.6848 ppm	0.0064 ppm	0.0081 ppm	0.4266 ppm	0.0007 ppm	0.2938 ppm
Concentration RSD	76.2 %	3.6 %	3.8 %	1.3 %	1.8 %	57.4 %	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	0.2886 ppm	101.5927 %	104.0414 %	88.4257 %	103.3648 %	109.6639 %	105.1113 %
Concentration per Run 1	0.2910 ppm	101.0742 %	104.4667 %	88.0935 %	102.7585 %	110.4999 %	104.9744 %
Concentration per Run 2	0.2865 ppm	102.0559 %	103.4961 %	88.4298 %	104.1316 %	108.5791 %	105.2853 %
Concentration per Run 3	0.2884 ppm	101.6480 %	104.1613 %	88.7539 %	103.2042 %	109.9128 %	105.0743 %
Concentration RSD	0.8 %	0.5 %	0.5 %	0.4 %	0.7 %	0.9 %	0.2 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2011336-5d2 WG2011336
Analysis started at: 12/19/2024 6:52:22 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	0.0471 ppm	36.6625 ppm	0.1692 ppm	0.9144 ppm	1.8576 ppm	0.0535 ppm	12.1958 ppm
Concentration per Run 1	0.0475 ppm	36.4367 ppm	0.1712 ppm	0.9209 ppm	1.8472 ppm	0.0533 ppm	12.1863 ppm
Concentration per Run 2	0.0471 ppm	36.9440 ppm	0.1676 ppm	0.9110 ppm	1.8598 ppm	0.0537 ppm	12.2729 ppm
Concentration per Run 3	0.0469 ppm	36.6069 ppm	0.1689 ppm	0.9114 ppm	1.8658 ppm	0.0534 ppm	12.1283 ppm
Concentration RSD	0.7 %	0.7 %	1.1 %	0.6 %	0.5 %	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	0.0474 ppm	0.4561 ppm	0.4341 ppm	0.2804 ppm	188.5968 ppm	18.9019 ppm	0.0099 ppm
Concentration per Run 1	0.0479 ppm	0.4593 ppm	0.4359 ppm	0.2822 ppm	187.8038 ppm	18.8299 ppm	0.0106 ppm
Concentration per Run 2	0.0471 ppm	0.4552 ppm	0.4348 ppm	0.2793 ppm	189.4343 ppm	19.0095 ppm	0.0097 ppm
Concentration per Run 3	0.0470 ppm	0.4538 ppm	0.4318 ppm	0.2796 ppm	188.5523 ppm	18.8662 ppm	0.0094 ppm
Concentration RSD	1.0 %	0.6 %	0.5 %	0.6 %	0.4 %	0.5 %	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	11.7360 ppm	0.7779 ppm	0.8928 ppm	10.0256 ppm	0.4737 ppm	0.5937 ppm	0.4485 ppm
Concentration per Run 1	11.8434 ppm	0.7755 ppm	0.8846 ppm	9.9012 ppm	0.4764 ppm	0.5971 ppm	0.4497 ppm
Concentration per Run 2	11.7434 ppm	0.7829 ppm	0.8922 ppm	10.0597 ppm	0.4736 ppm	0.5903 ppm	0.4488 ppm
Concentration per Run 3	11.6210 ppm	0.7751 ppm	0.9016 ppm	10.1158 ppm	0.4710 ppm	0.5936 ppm	0.4469 ppm
Concentration RSD	0.9 %	0.6 %	1.0 %	1.1 %	0.6 %	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	0.1020 ppm	5.3525 ppm	0.8953 ppm	0.9397 ppm	1.3327 ppm	0.1115 ppm	0.7192 ppm
Concentration per Run 1	0.1034 ppm	5.3984 ppm	0.8993 ppm	0.9335 ppm	1.3403 ppm	0.1124 ppm	0.7245 ppm
Concentration per Run 2	0.1022 ppm	5.3283 ppm	0.8928 ppm	0.9414 ppm	1.3290 ppm	0.1109 ppm	0.7181 ppm
Concentration per Run 3	0.1004 ppm	5.3308 ppm	0.8939 ppm	0.9443 ppm	1.3289 ppm	0.1112 ppm	0.7151 ppm
Concentration RSD	1.4 %	0.7 %	0.4 %	0.6 %	0.5 %	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	0.6968 ppm	100.6906 %	103.1593 %	84.9027 %	102.3343 %	108.8114 %	102.8671 %
Concentration per Run 1	0.7031 ppm	100.1044 %	103.4483 %	84.5713 %	101.8667 %	109.1505 %	102.4197 %
Concentration per Run 2	0.6958 ppm	100.7378 %	102.5203 %	84.8218 %	102.7775 %	108.4735 %	103.0337 %
Concentration per Run 3	0.6914 ppm	101.2297 %	103.5092 %	85.3151 %	102.3587 %	108.8102 %	103.1480 %
Concentration RSD	0.8 %	0.6 %	0.5 %	0.4 %	0.4 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2011336-6d10 WG2011336
Analysis started at: 12/19/2024 6:56:53 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	0.0005 ppm	7.2196 ppm	0.0149 ppm	0.0100 ppm	0.0150 ppm	0.0015 ppm	0.6167 ppm
Concentration per Run 1	0.0007 ppm	7.1988 ppm	0.0162 ppm	0.0104 ppm	0.0150 ppm	0.0015 ppm	0.6169 ppm
Concentration per Run 2	0.0005 ppm	7.2351 ppm	0.0140 ppm	0.0103 ppm	0.0151 ppm	0.0015 ppm	0.6146 ppm
Concentration per Run 3	0.0004 ppm	7.2250 ppm	0.0145 ppm	0.0092 ppm	0.0149 ppm	0.0015 ppm	0.6186 ppm
Concentration RSD	27.8 %	0.3 %	7.5 %	6.3 %	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	0.0002 ppm	0.0024 ppm	0.0549 ppm	0.0091 ppm	42.2677 ppm	1.6809 ppm	0.0020 ppm
Concentration per Run 1	0.0002 ppm	0.0025 ppm	0.0551 ppm	0.0094 ppm	42.2564 ppm	1.6816 ppm	0.0019 ppm
Concentration per Run 2	0.0001 ppm	0.0022 ppm	0.0543 ppm	0.0089 ppm	42.3499 ppm	1.6792 ppm	0.0021 ppm
Concentration per Run 3	0.0002 ppm	0.0025 ppm	0.0552 ppm	0.0089 ppm	42.1968 ppm	1.6821 ppm	0.0022 ppm
Concentration RSD	26.3 %	6.5 %	0.9 %	2.8 %	0.2 %	0.1 %	7.7 %

	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	0.6072 ppm	0.0664 ppm	0.0025 ppm	0.0092 ppm	0.0056 ppm	0.0185 ppm	0.0041 ppm
Concentration per Run 1	0.6133 ppm	0.0665 ppm	0.0026 ppm	0.0096 ppm	0.0059 ppm	0.0188 ppm	0.0033 ppm
Concentration per Run 2	0.6042 ppm	0.0664 ppm	0.0022 ppm	0.0084 ppm	0.0050 ppm	0.0185 ppm	0.0047 ppm
Concentration per Run 3	0.6039 ppm	0.0664 ppm	0.0026 ppm	0.0096 ppm	0.0059 ppm	0.0182 ppm	0.0043 ppm
Concentration RSD	0.9 %	0.1 %	10.2 %	7.4 %	10.1 %	1.5 %	16.7 %

	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	1.1959 ppm	0.0025 ppm	0.0018 ppm	0.0902 ppm	0.0001 ppm	0.0552 ppm
Concentration per Run 1	0.0005 ppm	1.2202 ppm	0.0020 ppm	0.0018 ppm	0.0929 ppm	0.0002 ppm	0.0557 ppm
Concentration per Run 2	-0.0008 ppm	1.2177 ppm	0.0025 ppm	0.0018 ppm	0.0871 ppm	-0.0002 ppm	0.0552 ppm
Concentration per Run 3	0.0014 ppm	1.1498 ppm	0.0030 ppm	0.0017 ppm	0.0906 ppm	0.0003 ppm	0.0547 ppm
Concentration RSD	298.4 %	3.3 %	19.8 %	2.3 %	3.2 %	277.4 %	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	0.0559 ppm	101.0242 %	102.4381 %	96.1122 %	100.4190 %	102.7944 %	101.9678 %
Concentration per Run 1	0.0565 ppm	100.1691 %	102.5703 %	95.2334 %	100.5182 %	103.2657 %	101.5496 %
Concentration per Run 2	0.0556 ppm	101.2798 %	102.4258 %	96.4919 %	100.7757 %	102.4521 %	102.7299 %
Concentration per Run 3	0.0557 ppm	101.6237 %	102.3181 %	96.6114 %	99.9632 %	102.6656 %	101.6239 %
Concentration RSD	0.9 %	0.8 %	0.1 %	0.8 %	0.4 %	0.4 %	0.6 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: CCV
Analysis started at: 12/19/2024 7:01:21 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	0.4945 ppm	0.4769 ppm	0.5008 ppm	0.4896 ppm	0.5229 ppm	0.5273 ppm
Concentration per Run 1	0.5040 ppm	0.4993 ppm	0.4756 ppm	0.5033 ppm	0.4876 ppm	0.5229 ppm	0.5285 ppm
Concentration per Run 2	0.5043 ppm	0.4884 ppm	0.4776 ppm	0.4996 ppm	0.4882 ppm	0.5215 ppm	0.5235 ppm
Concentration per Run 3	0.4983 ppm	0.4958 ppm	0.4775 ppm	0.4995 ppm	0.4931 ppm	0.5242 ppm	0.5300 ppm
Recovery Percentage 1	100.439 %	98.895 %	95.385 %	100.153 %	97.927 %	104.572 %	105.468 %
Concentration RSD	0.7 %	1.1 %	0.2 %	0.4 %	0.6 %	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	0.5180 ppm	0.5279 ppm	0.5114 ppm	0.5000 ppm	0.5419 ppm	5.1584 ppm	0.4954 ppm
Concentration per Run 1	0.5222 ppm	0.5328 ppm	0.5148 ppm	0.5012 ppm	0.5431 ppm	5.1271 ppm	0.4920 ppm
Concentration per Run 2	0.5189 ppm	0.5272 ppm	0.5124 ppm	0.5008 ppm	0.5397 ppm	5.1692 ppm	0.4984 ppm
Concentration per Run 3	0.5130 ppm	0.5238 ppm	0.5070 ppm	0.4980 ppm	0.5429 ppm	5.1791 ppm	0.4957 ppm
Recovery Percentage 1	103.608 %	105.583 %	102.284 %	100.005 %	108.380 %	103.169 %	99.073 %
Concentration RSD	0.9 %	0.9 %	0.8 %	0.3 %	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	0.5224 ppm	0.5114 ppm	0.5110 ppm	10.0668 ppm	0.5267 ppm	0.4958 ppm	0.5063 ppm
Concentration per Run 1	0.5242 ppm	0.5128 ppm	0.5100 ppm	10.0666 ppm	0.5291 ppm	0.4989 ppm	0.5082 ppm
Concentration per Run 2	0.5244 ppm	0.5084 ppm	0.5125 ppm	10.0559 ppm	0.5265 ppm	0.4960 ppm	0.5058 ppm
Concentration per Run 3	0.5187 ppm	0.5129 ppm	0.5106 ppm	10.0778 ppm	0.5246 ppm	0.4923 ppm	0.5050 ppm
Recovery Percentage 1	104.486 %	102.274 %	102.208 %	100.668 %	105.349 %	99.155 %	101.262 %
Concentration RSD	0.6 %	0.5 %	0.3 %	0.1 %	0.4 %	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	0.4868 ppm	5.6573 ppm	0.5413 ppm	0.5223 ppm	0.5103 ppm	0.4865 ppm	0.5085 ppm
Concentration per Run 1	0.4864 ppm	5.6749 ppm	0.5456 ppm	0.5199 ppm	0.5131 ppm	0.4888 ppm	0.5117 ppm
Concentration per Run 2	0.4881 ppm	5.6671 ppm	0.5428 ppm	0.5222 ppm	0.5106 ppm	0.4876 ppm	0.5086 ppm
Concentration per Run 3	0.4858 ppm	5.6300 ppm	0.5357 ppm	0.5247 ppm	0.5071 ppm	0.4831 ppm	0.5052 ppm
Recovery Percentage 1	97.354 %	107.759 %	108.270 %	104.454 %	102.054 %	97.298 %	101.697 %
Concentration RSD	0.3 %	0.4 %	0.9 %	0.5 %	0.6 %	0.6 %	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	0.5234 ppm	101.1846 %	101.1552 %	95.5246 %	97.0840 %	99.6364 %	99.8001 %
Concentration per Run 1	0.5271 ppm	100.5520 %	100.9300 %	95.3360 %	97.1112 %	99.4365 %	99.9881 %
Concentration per Run 2	0.5241 ppm	101.1729 %	101.7608 %	95.3837 %	97.0921 %	99.7554 %	99.3499 %
Concentration per Run 3	0.5190 ppm	101.8290 %	100.7749 %	95.8541 %	97.0488 %	99.7175 %	100.0624 %
Recovery Percentage 1	104.677 %						
Concentration RSD	0.8 %	0.6 %	0.5 %	0.3 %	0.0 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: CCB
Analysis started at: 12/19/2024 7:05:48 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	0.0002 ppm	0.0005 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0029 ppm
Concentration per Run 1	0.0003 ppm	-0.0015 ppm	0.0011 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0023 ppm
Concentration per Run 2	-0.0001 ppm	-0.0006 ppm	0.0009 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0028 ppm
Concentration per Run 3	-0.0001 ppm	0.0026 ppm	-0.0005 ppm	0.0017 ppm	0.0001 ppm	0.0000 ppm	0.0036 ppm
Recovery Percentage 1	1.186 %	0.164 %	10.669 %	3.177 %	0.461 %	0.776 %	2.908 %
Concentration RSD	378.2 %	1,326.7 %	164.1 %	72.4 %	125.9 %	26.8 %	22.6 %

	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	0.0072 ppm	-0.0017 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0074 ppm	-0.0047 ppm	0.0004 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0067 ppm	0.0067 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0073 ppm	-0.0072 ppm	-0.0001 ppm
Recovery Percentage 1	0.299 %	1.418 %	-0.180 %	1.418 %	14.321 %	-0.069 %	1.482 %
Concentration RSD	267.9 %	102.0 %	628.9 %	27.1 %	5.3 %	430.8 %	178.6 %

	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	-0.0004 ppm	0.0000 ppm	0.0022 ppm	-0.0044 ppm	0.0003 ppm	-0.0008 ppm	0.0032 ppm
Concentration per Run 1	-0.0008 ppm	-0.0002 ppm	0.0024 ppm	-0.0043 ppm	0.0005 ppm	-0.0011 ppm	0.0036 ppm
Concentration per Run 2	0.0006 ppm	0.0001 ppm	0.0020 ppm	-0.0042 ppm	0.0003 ppm	-0.0007 ppm	0.0046 ppm
Concentration per Run 3	-0.0012 ppm	0.0001 ppm	0.0023 ppm	-0.0046 ppm	0.0003 ppm	-0.0006 ppm	0.0015 ppm
Recovery Percentage 1	-0.439 %	0.009 %	4.450 %	-0.220 %	1.383 %	-8.045 %	6.473 %
Concentration RSD	215.6 %	14,370.2 %	9.3 %	4.7 %	34.6 %	31.7 %	48.4 %

	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	-0.0014 ppm	-0.0016 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 1	-0.0025 ppm	-0.0020 ppm	-0.0006 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 2	-0.0009 ppm	-0.0009 ppm	0.0006 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 3	-0.0008 ppm	-0.0019 ppm	-0.0007 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0002 ppm
Recovery Percentage 1	-14.171 %	-0.318 %	-0.403 %	0.416 %	0.074 %	-0.154 %	1.804 %
Concentration RSD	66.4 %	35.5 %	357.6 %	12.9 %	1,048.5 %	455.4 %	20.6 %

	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	0.0008 ppm	99.9522 %	100.7707 %	97.8075 %	99.2170 %	100.6468 %	101.2268 %
Concentration per Run 1	0.0007 ppm	98.0305 %	100.7406 %	97.3209 %	99.0251 %	100.9905 %	101.3429 %
Concentration per Run 2	0.0009 ppm	100.7029 %	101.1444 %	97.9953 %	99.2202 %	100.7076 %	101.6403 %
Concentration per Run 3	0.0007 ppm	101.1232 %	100.4272 %	98.1063 %	99.4057 %	100.2421 %	100.6973 %
Recovery Percentage 1	15.979 %						
Concentration RSD	14.0 %	1.7 %	0.4 %	0.4 %	0.2 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474520-04d2 WG2011336
Analysis started at: 12/19/2024 7:14:48 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	0.0011 ppm	25.9025 ppm	0.0550 ppm	0.0231 ppm	0.0907 ppm	0.0037 ppm	1.0228 ppm
Concentration per Run 1	0.0013 ppm	26.0282 ppm	0.0557 ppm	0.0232 ppm	0.0913 ppm	0.0037 ppm	1.0223 ppm
Concentration per Run 2	0.0008 ppm	25.9669 ppm	0.0546 ppm	0.0225 ppm	0.0904 ppm	0.0037 ppm	1.0174 ppm
Concentration per Run 3	0.0012 ppm	25.7125 ppm	0.0547 ppm	0.0235 ppm	0.0905 ppm	0.0037 ppm	1.0287 ppm
Concentration RSD	21.7 %	0.6 %	1.1 %	2.3 %	0.6 %	0.8 %	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	0.0005 ppm	0.0053 ppm	0.1701 ppm	0.0447 ppm	125.3382 ppm	4.4381 ppm	0.0083 ppm
Concentration per Run 1	0.0005 ppm	0.0053 ppm	0.1711 ppm	0.0448 ppm	125.3737 ppm	4.4944 ppm	0.0084 ppm
Concentration per Run 2	0.0004 ppm	0.0050 ppm	0.1702 ppm	0.0446 ppm	125.0011 ppm	4.4760 ppm	0.0085 ppm
Concentration per Run 3	0.0005 ppm	0.0056 ppm	0.1689 ppm	0.0448 ppm	125.6399 ppm	4.3441 ppm	0.0078 ppm
Concentration RSD	10.8 %	5.5 %	0.7 %	0.2 %	0.3 %	1.8 %	4.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.0485 ppm	0.3143 ppm	0.0010 ppm	0.0776 ppm	0.0149 ppm	0.0988 ppm	0.0045 ppm
Concentration per Run 1	2.0569 ppm	0.3144 ppm	0.0014 ppm	0.0769 ppm	0.0149 ppm	0.0981 ppm	0.0063 ppm
Concentration per Run 2	2.0501 ppm	0.3128 ppm	0.0011 ppm	0.0779 ppm	0.0154 ppm	0.1005 ppm	0.0038 ppm
Concentration per Run 3	2.0385 ppm	0.3155 ppm	0.0007 ppm	0.0780 ppm	0.0145 ppm	0.0978 ppm	0.0033 ppm
Concentration RSD	0.5 %	0.4 %	35.5 %	0.8 %	3.0 %	1.5 %	35.4 %

	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	4.9874 ppm	0.0030 ppm	0.0071 ppm	0.4307 ppm	0.0006 ppm	0.2056 ppm
Concentration per Run 1	0.0014 ppm	5.0662 ppm	0.0028 ppm	0.0072 ppm	0.4415 ppm	0.0004 ppm	0.2064 ppm
Concentration per Run 2	-0.0005 ppm	4.9774 ppm	0.0033 ppm	0.0070 ppm	0.4266 ppm	0.0016 ppm	0.2059 ppm
Concentration per Run 3	-0.0003 ppm	4.9186 ppm	0.0031 ppm	0.0071 ppm	0.4241 ppm	-0.0004 ppm	0.2044 ppm
Concentration RSD	545.4 %	1.5 %	7.3 %	1.0 %	2.2 %	184.2 %	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	0.1560 ppm	102.3635 %	103.8355 %	91.9462 %	112.2672 %	118.1527 %	114.7625 %
Concentration per Run 1	0.1574 ppm	101.9340 %	103.9797 %	91.8126 %	112.3093 %	117.9665 %	114.7292 %
Concentration per Run 2	0.1558 ppm	102.5211 %	104.2944 %	91.7534 %	112.3154 %	118.8737 %	114.7067 %
Concentration per Run 3	0.1549 ppm	102.6353 %	103.2325 %	92.2724 %	112.1769 %	117.6178 %	114.8516 %
Concentration RSD	0.8 %	0.4 %	0.5 %	0.3 %	0.1 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474520-05d2 WG2011336
Analysis started at: 12/19/2024 7:20:12 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	38.3185 ppm	0.0722 ppm	0.0183 ppm	0.2115 ppm	0.0034 ppm	3.8551 ppm
Concentration per Run 1	0.0015 ppm	38.2812 ppm	0.0743 ppm	0.0184 ppm	0.2114 ppm	0.0034 ppm	3.8656 ppm
Concentration per Run 2	0.0017 ppm	38.5418 ppm	0.0710 ppm	0.0179 ppm	0.2129 ppm	0.0035 ppm	3.8851 ppm
Concentration per Run 3	0.0018 ppm	38.1327 ppm	0.0715 ppm	0.0187 ppm	0.2102 ppm	0.0034 ppm	3.8146 ppm
Concentration RSD	10.0 %	0.5 %	2.5 %	2.2 %	0.6 %	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	0.0009 ppm	0.0111 ppm	0.1650 ppm	0.0802 ppm	91.7597 ppm	5.9605 ppm	0.0168 ppm
Concentration per Run 1	0.0010 ppm	0.0116 ppm	0.1699 ppm	0.0825 ppm	91.4854 ppm	5.9588 ppm	0.0173 ppm
Concentration per Run 2	0.0008 ppm	0.0109 ppm	0.1636 ppm	0.0791 ppm	92.4517 ppm	5.9769 ppm	0.0163 ppm
Concentration per Run 3	0.0008 ppm	0.0107 ppm	0.1616 ppm	0.0789 ppm	91.3419 ppm	5.9457 ppm	0.0167 ppm
Concentration RSD	10.7 %	3.8 %	2.6 %	2.5 %	0.7 %	0.3 %	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	3.0024 ppm	0.4542 ppm	0.0026 ppm	0.0792 ppm	0.0250 ppm	0.1482 ppm	0.0048 ppm
Concentration per Run 1	3.0923 ppm	0.4543 ppm	0.0024 ppm	0.0807 ppm	0.0260 ppm	0.1499 ppm	0.0053 ppm
Concentration per Run 2	2.9784 ppm	0.4576 ppm	0.0025 ppm	0.0794 ppm	0.0245 ppm	0.1468 ppm	0.0035 ppm
Concentration per Run 3	2.9365 ppm	0.4508 ppm	0.0030 ppm	0.0776 ppm	0.0245 ppm	0.1480 ppm	0.0058 ppm
Concentration RSD	2.7 %	0.7 %	12.2 %	1.9 %	3.4 %	1.1 %	25.1 %

	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	5.5748 ppm	0.0074 ppm	0.0162 ppm	0.7771 ppm	0.0005 ppm	0.1696 ppm
Concentration per Run 1	-0.0005 ppm	5.7336 ppm	0.0075 ppm	0.0162 ppm	0.8081 ppm	0.0004 ppm	0.1749 ppm
Concentration per Run 2	-0.0006 ppm	5.4703 ppm	0.0078 ppm	0.0164 ppm	0.7664 ppm	0.0005 ppm	0.1679 ppm
Concentration per Run 3	0.0001 ppm	5.5205 ppm	0.0069 ppm	0.0161 ppm	0.7566 ppm	0.0006 ppm	0.1662 ppm
Concentration RSD	107.4 %	2.5 %	6.7 %	0.9 %	3.5 %	18.5 %	2.7 %

	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	0.1841 ppm	100.4450 %	104.0276 %	90.4045 %	119.0934 %	126.1412 %	121.3938 %
Concentration per Run 1	0.1894 ppm	97.8830 %	104.1370 %	89.7301 %	117.4314 %	125.9358 %	121.0388 %
Concentration per Run 2	0.1818 ppm	101.3418 %	102.9636 %	91.0978 %	119.7274 %	125.4524 %	121.9924 %
Concentration per Run 3	0.1810 ppm	102.1104 %	104.9821 %	90.3856 %	120.1213 %	127.0353 %	121.1500 %
Concentration RSD	2.5 %	2.2 %	1.0 %	0.8 %	1.2 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474520-06d2 WG2011336
Analysis started at: 12/19/2024 7:24:40 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	0.0014 ppm	45.1620 ppm	0.0922 ppm	0.0196 ppm	0.2460 ppm	0.0045 ppm	3.6738 ppm
Concentration per Run 1	0.0014 ppm	45.0241 ppm	0.0944 ppm	0.0189 ppm	0.2434 ppm	0.0044 ppm	3.6561 ppm
Concentration per Run 2	0.0015 ppm	45.3571 ppm	0.0916 ppm	0.0203 ppm	0.2480 ppm	0.0045 ppm	3.7020 ppm
Concentration per Run 3	0.0013 ppm	45.1049 ppm	0.0906 ppm	0.0194 ppm	0.2466 ppm	0.0045 ppm	3.6634 ppm
Concentration RSD	7.5 %	0.4 %	2.1 %	3.6 %	1.0 %	1.1 %	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	0.0007 ppm	0.0209 ppm	0.1630 ppm	0.0734 ppm	107.5431 ppm	4.3910 ppm	0.0173 ppm
Concentration per Run 1	0.0006 ppm	0.0208 ppm	0.1646 ppm	0.0741 ppm	106.5271 ppm	4.3565 ppm	0.0178 ppm
Concentration per Run 2	0.0009 ppm	0.0208 ppm	0.1636 ppm	0.0738 ppm	108.3276 ppm	4.4335 ppm	0.0170 ppm
Concentration per Run 3	0.0005 ppm	0.0211 ppm	0.1607 ppm	0.0722 ppm	107.7747 ppm	4.3829 ppm	0.0172 ppm
Concentration RSD	30.9 %	0.8 %	1.2 %	1.4 %	0.9 %	0.9 %	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	3.4367 ppm	1.0596 ppm	0.0032 ppm	0.1376 ppm	0.0353 ppm	0.1394 ppm	0.0041 ppm
Concentration per Run 1	3.4721 ppm	1.0526 ppm	0.0036 ppm	0.1364 ppm	0.0356 ppm	0.1390 ppm	0.0047 ppm
Concentration per Run 2	3.4456 ppm	1.0674 ppm	0.0028 ppm	0.1385 ppm	0.0354 ppm	0.1394 ppm	0.0038 ppm
Concentration per Run 3	3.3923 ppm	1.0588 ppm	0.0031 ppm	0.1380 ppm	0.0350 ppm	0.1397 ppm	0.0039 ppm
Concentration RSD	1.2 %	0.7 %	11.9 %	0.8 %	0.9 %	0.2 %	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	0.0000 ppm	5.7661 ppm	0.0088 ppm	0.0158 ppm	0.7990 ppm	0.0007 ppm	0.1357 ppm
Concentration per Run 1	-0.0006 ppm	5.9168 ppm	0.0095 ppm	0.0157 ppm	0.8125 ppm	0.0004 ppm	0.1364 ppm
Concentration per Run 2	0.0002 ppm	5.7923 ppm	0.0091 ppm	0.0158 ppm	0.8007 ppm	0.0006 ppm	0.1358 ppm
Concentration per Run 3	0.0003 ppm	5.5893 ppm	0.0079 ppm	0.0159 ppm	0.7836 ppm	0.0010 ppm	0.1347 ppm
Concentration RSD	1,249.2 %	2.9 %	9.3 %	0.6 %	1.8 %	39.9 %	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	0.1886 ppm	101.9523 %	104.1547 %	89.8564 %	122.1675 %	128.2661 %	123.6529 %
Concentration per Run 1	0.1910 ppm	101.0953 %	105.1703 %	89.5092 %	122.1584 %	129.3006 %	123.3227 %
Concentration per Run 2	0.1888 ppm	101.9986 %	102.9890 %	90.1209 %	122.0575 %	127.3991 %	123.8352 %
Concentration per Run 3	0.1859 ppm	102.7629 %	104.3048 %	89.9390 %	122.2867 %	128.0987 %	123.8006 %
Concentration RSD	1.4 %	0.8 %	1.1 %	0.3 %	0.1 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474520-07d2 WG2011336
Analysis started at: 12/19/2024 7:29:08 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	0.0013 ppm	54.5497 ppm	0.0582 ppm	0.0440 ppm	0.1597 ppm	0.0043 ppm	5.1471 ppm
Concentration per Run 1	0.0013 ppm	54.7648 ppm	0.0583 ppm	0.0445 ppm	0.1613 ppm	0.0043 ppm	5.1565 ppm
Concentration per Run 2	0.0015 ppm	54.3387 ppm	0.0594 ppm	0.0443 ppm	0.1578 ppm	0.0043 ppm	5.1611 ppm
Concentration per Run 3	0.0013 ppm	54.5457 ppm	0.0569 ppm	0.0433 ppm	0.1600 ppm	0.0043 ppm	5.1237 ppm
Concentration RSD	8.4 %	0.4 %	2.2 %	1.4 %	1.1 %	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	0.0006 ppm	0.0189 ppm	0.2307 ppm	0.0385 ppm	160.1966 ppm	10.5038 ppm	0.0212 ppm
Concentration per Run 1	0.0007 ppm	0.0190 ppm	0.2330 ppm	0.0388 ppm	160.9074 ppm	10.5974 ppm	0.0212 ppm
Concentration per Run 2	0.0005 ppm	0.0189 ppm	0.2290 ppm	0.0385 ppm	159.5570 ppm	10.3678 ppm	0.0212 ppm
Concentration per Run 3	0.0005 ppm	0.0187 ppm	0.2300 ppm	0.0382 ppm	160.1255 ppm	10.5461 ppm	0.0214 ppm
Concentration RSD	20.7 %	0.8 %	0.9 %	0.8 %	0.4 %	1.1 %	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	5.0434 ppm	0.5182 ppm	0.0031 ppm	0.0824 ppm	0.0289 ppm	0.0592 ppm	0.0056 ppm
Concentration per Run 1	5.0857 ppm	0.5197 ppm	0.0027 ppm	0.0836 ppm	0.0295 ppm	0.0597 ppm	0.0060 ppm
Concentration per Run 2	5.0036 ppm	0.5172 ppm	0.0032 ppm	0.0817 ppm	0.0291 ppm	0.0597 ppm	0.0061 ppm
Concentration per Run 3	5.0409 ppm	0.5179 ppm	0.0036 ppm	0.0820 ppm	0.0280 ppm	0.0583 ppm	0.0049 ppm
Concentration RSD	0.8 %	0.2 %	14.5 %	1.2 %	2.6 %	1.4 %	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	0.0013 ppm	5.4270 ppm	0.0039 ppm	0.0226 ppm	0.8539 ppm	0.0012 ppm	0.3764 ppm
Concentration per Run 1	0.0027 ppm	5.5890 ppm	0.0036 ppm	0.0227 ppm	0.8667 ppm	0.0003 ppm	0.3799 ppm
Concentration per Run 2	0.0009 ppm	5.4281 ppm	0.0039 ppm	0.0224 ppm	0.8479 ppm	0.0013 ppm	0.3738 ppm
Concentration per Run 3	0.0004 ppm	5.2641 ppm	0.0041 ppm	0.0226 ppm	0.8469 ppm	0.0022 ppm	0.3756 ppm
Concentration RSD	91.0 %	3.0 %	5.9 %	0.8 %	1.3 %	74.3 %	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	0.1528 ppm	103.2735 %	105.8392 %	89.8719 %	112.4892 %	119.3594 %	114.6538 %
Concentration per Run 1	0.1545 ppm	102.6944 %	105.8273 %	89.7384 %	112.3985 %	119.8466 %	114.6947 %
Concentration per Run 2	0.1515 ppm	103.9815 %	105.5301 %	89.6064 %	113.4282 %	118.3583 %	114.5932 %
Concentration per Run 3	0.1522 ppm	103.1445 %	106.1602 %	90.2708 %	111.6410 %	119.8732 %	114.6736 %
Concentration RSD	1.0 %	0.6 %	0.3 %	0.4 %	0.8 %	0.7 %	0.0 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474520-08d2 WG2011336
Analysis started at: 12/19/2024 7:33:35 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	0.0020 ppm	79.0619 ppm	0.0643 ppm	0.0131 ppm	0.3412 ppm	0.0072 ppm	6.6786 ppm
Concentration per Run 1	0.0019 ppm	79.3242 ppm	0.0639 ppm	0.0128 ppm	0.3427 ppm	0.0071 ppm	6.6854 ppm
Concentration per Run 2	0.0020 ppm	78.8163 ppm	0.0648 ppm	0.0130 ppm	0.3394 ppm	0.0072 ppm	6.6783 ppm
Concentration per Run 3	0.0022 ppm	79.0453 ppm	0.0641 ppm	0.0134 ppm	0.3414 ppm	0.0072 ppm	6.6719 ppm
Concentration RSD	8.7 %	0.3 %	0.7 %	2.3 %	0.5 %	0.2 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0008 ppm	0.0269 ppm	0.3839 ppm	0.0646 ppm	200.6971 ppm	4.9652 ppm	0.0280 ppm
Concentration per Run 1	0.0010 ppm	0.0270 ppm	0.3861 ppm	0.0646 ppm	200.7300 ppm	4.9938 ppm	0.0293 ppm
Concentration per Run 2	0.0007 ppm	0.0271 ppm	0.3837 ppm	0.0644 ppm	200.3932 ppm	4.9436 ppm	0.0271 ppm
Concentration per Run 3	0.0007 ppm	0.0265 ppm	0.3817 ppm	0.0648 ppm	200.9681 ppm	4.9582 ppm	0.0277 ppm
Concentration RSD	18.1 %	1.2 %	0.6 %	0.3 %	0.1 %	0.5 %	4.0 %

	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	4.6125 ppm	1.1139 ppm	0.0026 ppm	0.0815 ppm	0.0534 ppm	0.1634 ppm	0.0057 ppm
Concentration per Run 1	4.6487 ppm	1.1175 ppm	0.0025 ppm	0.0798 ppm	0.0537 ppm	0.1636 ppm	0.0053 ppm
Concentration per Run 2	4.6005 ppm	1.1115 ppm	0.0026 ppm	0.0810 ppm	0.0534 ppm	0.1643 ppm	0.0062 ppm
Concentration per Run 3	4.5882 ppm	1.1127 ppm	0.0027 ppm	0.0836 ppm	0.0531 ppm	0.1622 ppm	0.0058 ppm
Concentration RSD	0.7 %	0.3 %	3.6 %	2.4 %	0.6 %	0.7 %	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	-0.0003 ppm	4.4504 ppm	0.0106 ppm	0.0310 ppm	1.1717 ppm	0.0023 ppm	0.3080 ppm
Concentration per Run 1	-0.0016 ppm	4.4776 ppm	0.0103 ppm	0.0311 ppm	1.1825 ppm	0.0022 ppm	0.3100 ppm
Concentration per Run 2	0.0003 ppm	4.4568 ppm	0.0105 ppm	0.0308 ppm	1.1665 ppm	0.0017 ppm	0.3077 ppm
Concentration per Run 3	0.0005 ppm	4.4169 ppm	0.0110 ppm	0.0311 ppm	1.1660 ppm	0.0030 ppm	0.3062 ppm
Concentration RSD	442.2 %	0.7 %	3.5 %	0.6 %	0.8 %	28.5 %	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	0.2167 ppm	103.0798 %	105.3798 %	87.5629 %	136.5339 %	145.5652 %	139.7884 %
Concentration per Run 1	0.2187 ppm	102.4529 %	105.2245 %	87.3015 %	136.1465 %	145.4181 %	139.8407 %
Concentration per Run 2	0.2158 ppm	103.2879 %	105.4394 %	87.7005 %	136.6737 %	145.4877 %	139.8691 %
Concentration per Run 3	0.2156 ppm	103.4986 %	105.4756 %	87.6867 %	136.7816 %	145.7898 %	139.6555 %
Concentration RSD	0.8 %	0.5 %	0.1 %	0.3 %	0.2 %	0.1 %	0.1 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474520-09d2 WG2011336
Analysis started at: 12/19/2024 7:38:03 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	0.0017 ppm	53.2614 ppm	0.1037 ppm	0.0193 ppm	0.3800 ppm	0.0054 ppm	9.2040 ppm
Concentration per Run 1	0.0016 ppm	53.4502 ppm	0.1031 ppm	0.0189 ppm	0.3827 ppm	0.0054 ppm	9.1485 ppm
Concentration per Run 2	0.0016 ppm	53.1666 ppm	0.1054 ppm	0.0198 ppm	0.3813 ppm	0.0055 ppm	9.2025 ppm
Concentration per Run 3	0.0019 ppm	53.1673 ppm	0.1027 ppm	0.0191 ppm	0.3761 ppm	0.0055 ppm	9.2608 ppm
Concentration RSD	7.8 %	0.3 %	1.4 %	2.6 %	0.9 %	0.8 %	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	0.0183 ppm	0.1870 ppm	0.0557 ppm	117.7263 ppm	4.9132 ppm	0.0202 ppm
Concentration per Run 1	0.0010 ppm	0.0186 ppm	0.1878 ppm	0.0564 ppm	117.2049 ppm	4.9634 ppm	0.0209 ppm
Concentration per Run 2	0.0010 ppm	0.0179 ppm	0.1875 ppm	0.0554 ppm	118.0595 ppm	4.8880 ppm	0.0200 ppm
Concentration per Run 3	0.0011 ppm	0.0185 ppm	0.1857 ppm	0.0555 ppm	117.9146 ppm	4.8884 ppm	0.0196 ppm
Concentration RSD	8.6 %	2.1 %	0.6 %	1.0 %	0.4 %	0.9 %	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	4.1178 ppm	1.4955 ppm	0.0024 ppm	0.1065 ppm	0.0349 ppm	0.2104 ppm	0.0050 ppm
Concentration per Run 1	4.1530 ppm	1.4925 ppm	0.0023 ppm	0.1087 ppm	0.0353 ppm	0.2111 ppm	0.0054 ppm
Concentration per Run 2	4.1211 ppm	1.4970 ppm	0.0025 ppm	0.1056 ppm	0.0353 ppm	0.2099 ppm	0.0044 ppm
Concentration per Run 3	4.0794 ppm	1.4971 ppm	0.0023 ppm	0.1051 ppm	0.0342 ppm	0.2103 ppm	0.0053 ppm
Concentration RSD	0.9 %	0.2 %	3.5 %	1.8 %	1.8 %	0.3 %	11.1 %

	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	-0.0009 ppm	5.7745 ppm	0.0074 ppm	0.0306 ppm	0.7042 ppm	0.0011 ppm	0.2212 ppm
Concentration per Run 1	-0.0007 ppm	6.0624 ppm	0.0075 ppm	0.0309 ppm	0.7190 ppm	0.0014 ppm	0.2234 ppm
Concentration per Run 2	-0.0017 ppm	5.6946 ppm	0.0083 ppm	0.0307 ppm	0.7000 ppm	0.0009 ppm	0.2206 ppm
Concentration per Run 3	-0.0003 ppm	5.5663 ppm	0.0065 ppm	0.0303 ppm	0.6936 ppm	0.0009 ppm	0.2195 ppm
Concentration RSD	78.6 %	4.5 %	12.0 %	1.0 %	1.9 %	24.5 %	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	0.1936 ppm	101.1506 %	103.5490 %	89.5435 %	149.2426 %	157.7119 %	153.4493 %
Concentration per Run 1	0.1942 ppm	100.8855 %	103.8318 %	89.3800 %	149.8819 %	158.4664 %	153.5792 %
Concentration per Run 2	0.1947 ppm	101.0182 %	103.8244 %	89.7523 %	148.8944 %	157.8403 %	153.6341 %
Concentration per Run 3	0.1918 ppm	101.5480 %	102.9907 %	89.4982 %	148.9515 %	156.8289 %	153.1347 %
Concentration RSD	0.8 %	0.3 %	0.5 %	0.2 %	0.4 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474520-10d2 WG2011336
Analysis started at: 12/19/2024 7:42:31 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	0.0015 ppm	61.6173 ppm	0.0483 ppm	0.0371 ppm	0.1136 ppm	0.0045 ppm	3.8794 ppm
Concentration per Run 1	0.0015 ppm	61.8389 ppm	0.0484 ppm	0.0384 ppm	0.1141 ppm	0.0046 ppm	3.8896 ppm
Concentration per Run 2	0.0012 ppm	61.3735 ppm	0.0471 ppm	0.0371 ppm	0.1133 ppm	0.0045 ppm	3.8847 ppm
Concentration per Run 3	0.0017 ppm	61.6396 ppm	0.0493 ppm	0.0360 ppm	0.1132 ppm	0.0045 ppm	3.8639 ppm
Concentration RSD	17.2 %	0.4 %	2.4 %	3.2 %	0.4 %	1.0 %	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	0.0004 ppm	0.0183 ppm	0.2710 ppm	0.0326 ppm	193.4976 ppm	9.0881 ppm	0.0190 ppm
Concentration per Run 1	0.0006 ppm	0.0189 ppm	0.2739 ppm	0.0332 ppm	194.0478 ppm	9.1433 ppm	0.0201 ppm
Concentration per Run 2	0.0003 ppm	0.0180 ppm	0.2699 ppm	0.0320 ppm	193.7512 ppm	8.9912 ppm	0.0185 ppm
Concentration per Run 3	0.0004 ppm	0.0180 ppm	0.2690 ppm	0.0327 ppm	192.6939 ppm	9.1298 ppm	0.0184 ppm
Concentration RSD	38.6 %	3.0 %	1.0 %	1.9 %	0.4 %	0.9 %	5.0 %

	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	4.7091 ppm	0.4013 ppm	0.0022 ppm	0.0539 ppm	0.0307 ppm	0.0391 ppm	0.0058 ppm
Concentration per Run 1	4.7620 ppm	0.4037 ppm	0.0021 ppm	0.0527 ppm	0.0304 ppm	0.0387 ppm	0.0056 ppm
Concentration per Run 2	4.7027 ppm	0.4010 ppm	0.0022 ppm	0.0539 ppm	0.0315 ppm	0.0393 ppm	0.0086 ppm
Concentration per Run 3	4.6627 ppm	0.3991 ppm	0.0024 ppm	0.0551 ppm	0.0303 ppm	0.0394 ppm	0.0031 ppm
Concentration RSD	1.1 %	0.6 %	7.9 %	2.2 %	2.1 %	1.0 %	47.1 %

	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	-0.0001 ppm	3.9845 ppm	0.0030 ppm	0.0206 ppm	0.8912 ppm	0.0017 ppm	0.3373 ppm
Concentration per Run 1	0.0010 ppm	4.1131 ppm	0.0030 ppm	0.0207 ppm	0.8993 ppm	0.0017 ppm	0.3396 ppm
Concentration per Run 2	0.0014 ppm	4.0044 ppm	0.0030 ppm	0.0205 ppm	0.8930 ppm	0.0019 ppm	0.3373 ppm
Concentration per Run 3	-0.0026 ppm	3.8358 ppm	0.0030 ppm	0.0204 ppm	0.8814 ppm	0.0016 ppm	0.3351 ppm
Concentration RSD	3,789.2 %	3.5 %	0.2 %	0.6 %	1.0 %	8.0 %	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	0.1397 ppm	104.9167 %	106.9556 %	90.3176 %	106.8448 %	113.2736 %	109.4073 %
Concentration per Run 1	0.1412 ppm	104.1543 %	106.4730 %	89.7656 %	106.8479 %	113.2566 %	109.1348 %
Concentration per Run 2	0.1388 ppm	105.0029 %	107.0322 %	90.5790 %	106.2848 %	113.4190 %	109.7514 %
Concentration per Run 3	0.1391 ppm	105.5930 %	107.3616 %	90.6084 %	107.4016 %	113.1451 %	109.3356 %
Concentration RSD	1.0 %	0.7 %	0.4 %	0.5 %	0.5 %	0.1 %	0.3 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474520-11d2 WG2011336
Analysis started at: 12/19/2024 7:46:59 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	0.0024 ppm	86.1100 ppm	0.0780 ppm	0.0389 ppm	0.3220 ppm	0.0087 ppm	10.4406 ppm
Concentration per Run 1	0.0026 ppm	86.5677 ppm	0.0782 ppm	0.0390 ppm	0.3237 ppm	0.0087 ppm	10.4347 ppm
Concentration per Run 2	0.0021 ppm	86.4733 ppm	0.0782 ppm	0.0388 ppm	0.3239 ppm	0.0088 ppm	10.4827 ppm
Concentration per Run 3	0.0025 ppm	85.2889 ppm	0.0776 ppm	0.0388 ppm	0.3184 ppm	0.0086 ppm	10.4044 ppm
Concentration RSD	12.3 %	0.8 %	0.4 %	0.3 %	1.0 %	1.1 %	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	0.0014 ppm	0.0189 ppm	0.5074 ppm	0.0808 ppm	278.5423 ppm	11.8654 ppm	0.0224 ppm
Concentration per Run 1	0.0015 ppm	0.0191 ppm	0.5099 ppm	0.0818 ppm	278.1372 ppm	12.0593 ppm	0.0237 ppm
Concentration per Run 2	0.0013 ppm	0.0190 ppm	0.5073 ppm	0.0801 ppm	280.4340 ppm	11.8428 ppm	0.0220 ppm
Concentration per Run 3	0.0015 ppm	0.0187 ppm	0.5050 ppm	0.0806 ppm	277.0557 ppm	11.6940 ppm	0.0214 ppm
Concentration RSD	6.3 %	1.3 %	0.5 %	1.0 %	0.6 %	1.5 %	5.2 %

	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	7.3366 ppm	0.9569 ppm	0.0029 ppm	0.0638 ppm	0.0529 ppm	0.1253 ppm	0.0070 ppm
Concentration per Run 1	7.3710 ppm	0.9557 ppm	0.0030 ppm	0.0677 ppm	0.0534 ppm	0.1259 ppm	0.0077 ppm
Concentration per Run 2	7.3440 ppm	0.9631 ppm	0.0032 ppm	0.0620 ppm	0.0525 ppm	0.1261 ppm	0.0067 ppm
Concentration per Run 3	7.2949 ppm	0.9519 ppm	0.0026 ppm	0.0617 ppm	0.0528 ppm	0.1240 ppm	0.0066 ppm
Concentration RSD	0.5 %	0.6 %	10.6 %	5.3 %	0.9 %	0.9 %	8.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0017 ppm	4.2025 ppm	0.0069 ppm	0.0246 ppm	1.0264 ppm	0.0030 ppm	0.5195 ppm
Concentration per Run 1	0.0009 ppm	4.3149 ppm	0.0068 ppm	0.0248 ppm	1.0340 ppm	0.0031 ppm	0.5216 ppm
Concentration per Run 2	0.0016 ppm	4.1875 ppm	0.0068 ppm	0.0247 ppm	1.0203 ppm	0.0029 ppm	0.5192 ppm
Concentration per Run 3	0.0025 ppm	4.1053 ppm	0.0071 ppm	0.0243 ppm	1.0249 ppm	0.0030 ppm	0.5177 ppm
Concentration RSD	49.5 %	2.5 %	2.5 %	0.9 %	0.7 %	4.2 %	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	0.3263 ppm	103.5017 %	106.9433 %	85.9902 %	123.7644 %	133.6329 %	125.8479 %
Concentration per Run 1	0.3275 ppm	103.0568 %	107.2214 %	85.3868 %	123.4954 %	134.2574 %	125.3733 %
Concentration per Run 2	0.3272 ppm	103.7715 %	106.3937 %	86.5028 %	123.9303 %	132.9035 %	126.2811 %
Concentration per Run 3	0.3243 ppm	103.6768 %	107.2149 %	86.0810 %	123.8675 %	133.7376 %	125.8894 %
Concentration RSD	0.5 %	0.4 %	0.4 %	0.7 %	0.2 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474520-12d2 WG2011336
Analysis started at: 12/19/2024 7:51:30 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	0.0015 ppm	36.8329 ppm	0.0582 ppm	0.0158 ppm	0.2653 ppm	0.0053 ppm	3.4998 ppm
Concentration per Run 1	0.0017 ppm	38.4612 ppm	0.0580 ppm	0.0156 ppm	0.2780 ppm	0.0055 ppm	3.6467 ppm
Concentration per Run 2	0.0015 ppm	38.6983 ppm	0.0579 ppm	0.0157 ppm	0.2776 ppm	0.0055 ppm	3.6689 ppm
Concentration per Run 3	0.0014 ppm	33.3392 ppm	0.0586 ppm	0.0160 ppm	0.2403 ppm	0.0048 ppm	3.1839 ppm
Concentration RSD	8.8 %	8.2 %	0.7 %	1.2 %	8.2 %	8.0 %	7.8 %

	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	0.0012 ppm	0.0162 ppm	0.1670 ppm	0.0531 ppm	111.5669 ppm	4.2555 ppm	0.0160 ppm
Concentration per Run 1	0.0012 ppm	0.0158 ppm	0.1683 ppm	0.0538 ppm	116.3832 ppm	4.5063 ppm	0.0178 ppm
Concentration per Run 2	0.0011 ppm	0.0163 ppm	0.1670 ppm	0.0525 ppm	117.0323 ppm	4.4235 ppm	0.0167 ppm
Concentration per Run 3	0.0012 ppm	0.0163 ppm	0.1657 ppm	0.0531 ppm	101.2852 ppm	3.8367 ppm	0.0136 ppm
Concentration RSD	6.7 %	1.8 %	0.8 %	1.2 %	8.0 %	8.6 %	13.3 %

	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	3.2986 ppm	1.0716 ppm	0.0026 ppm	0.0611 ppm	0.0351 ppm	0.1164 ppm	0.0040 ppm
Concentration per Run 1	3.3406 ppm	1.1190 ppm	0.0026 ppm	0.0676 ppm	0.0351 ppm	0.1172 ppm	0.0045 ppm
Concentration per Run 2	3.2786 ppm	1.1258 ppm	0.0022 ppm	0.0638 ppm	0.0348 ppm	0.1157 ppm	0.0040 ppm
Concentration per Run 3	3.2766 ppm	0.9700 ppm	0.0029 ppm	0.0520 ppm	0.0354 ppm	0.1164 ppm	0.0035 ppm
Concentration RSD	1.1 %	8.2 %	13.2 %	13.4 %	0.9 %	0.6 %	12.4 %

	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	4.9806 ppm	0.0041 ppm	0.0130 ppm	0.6866 ppm	0.0001 ppm	0.1305 ppm
Concentration per Run 1	0.0000 ppm	5.1124 ppm	0.0040 ppm	0.0135 ppm	0.6978 ppm	0.0005 ppm	0.1320 ppm
Concentration per Run 2	0.0007 ppm	4.9615 ppm	0.0041 ppm	0.0136 ppm	0.6852 ppm	0.0003 ppm	0.1299 ppm
Concentration per Run 3	0.0000 ppm	4.8679 ppm	0.0043 ppm	0.0118 ppm	0.6768 ppm	-0.0004 ppm	0.1296 ppm
Concentration RSD	183.5 %	2.5 %	3.2 %	8.0 %	1.5 %	492.7 %	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	0.2085 ppm	101.2663 %	109.1617 %	90.0634 %	118.2863 %	127.1246 %	121.0837 %
Concentration per Run 1	0.2104 ppm	100.4142 %	104.8129 %	89.7581 %	118.2495 %	126.3915 %	121.2310 %
Concentration per Run 2	0.2088 ppm	101.5891 %	103.9787 %	89.9171 %	118.4794 %	124.9313 %	121.1907 %
Concentration per Run 3	0.2064 ppm	101.7956 %	118.6936 %	90.5152 %	118.1301 %	130.0510 %	120.8294 %
Concentration RSD	1.0 %	0.7 %	7.6 %	0.4 %	0.2 %	2.1 %	0.2 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474520-13d2 WG2011336
Analysis started at: 12/19/2024 7:55:58 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	0.0025 ppm	71.2980 ppm	0.0699 ppm	0.0180 ppm	0.5118 ppm	0.0104 ppm	5.7702 ppm
Concentration per Run 1	0.0025 ppm	71.5181 ppm	0.0693 ppm	0.0190 ppm	0.5104 ppm	0.0104 ppm	5.7754 ppm
Concentration per Run 2	0.0024 ppm	70.7756 ppm	0.0714 ppm	0.0169 ppm	0.5101 ppm	0.0103 ppm	5.7395 ppm
Concentration per Run 3	0.0027 ppm	71.6003 ppm	0.0691 ppm	0.0180 ppm	0.5148 ppm	0.0104 ppm	5.7957 ppm
Concentration RSD	6.0 %	0.6 %	1.8 %	5.9 %	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	0.0015 ppm	0.0294 ppm	0.3183 ppm	0.0555 ppm	205.6451 ppm	4.6712 ppm	0.0284 ppm
Concentration per Run 1	0.0015 ppm	0.0296 ppm	0.3212 ppm	0.0558 ppm	205.5991 ppm	4.6913 ppm	0.0290 ppm
Concentration per Run 2	0.0016 ppm	0.0292 ppm	0.3171 ppm	0.0552 ppm	204.4035 ppm	4.6294 ppm	0.0275 ppm
Concentration per Run 3	0.0013 ppm	0.0294 ppm	0.3166 ppm	0.0556 ppm	206.9326 ppm	4.6929 ppm	0.0288 ppm
Concentration RSD	10.4 %	0.7 %	0.8 %	0.6 %	0.6 %	0.8 %	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	5.2931 ppm	1.7355 ppm	0.0043 ppm	0.2384 ppm	0.0596 ppm	0.1435 ppm	0.0036 ppm
Concentration per Run 1	5.3408 ppm	1.7368 ppm	0.0042 ppm	0.2395 ppm	0.0602 ppm	0.1452 ppm	0.0033 ppm
Concentration per Run 2	5.2720 ppm	1.7261 ppm	0.0043 ppm	0.2363 ppm	0.0588 ppm	0.1435 ppm	0.0044 ppm
Concentration per Run 3	5.2665 ppm	1.7438 ppm	0.0043 ppm	0.2392 ppm	0.0599 ppm	0.1418 ppm	0.0030 ppm
Concentration RSD	0.8 %	0.5 %	1.6 %	0.7 %	1.2 %	1.2 %	20.8 %

	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	5.1603 ppm	0.0079 ppm	0.0227 ppm	0.8993 ppm	0.0020 ppm	0.1844 ppm
Concentration per Run 1	0.0013 ppm	5.3030 ppm	0.0077 ppm	0.0228 ppm	0.9075 ppm	0.0017 ppm	0.1863 ppm
Concentration per Run 2	0.0004 ppm	5.1843 ppm	0.0084 ppm	0.0225 ppm	0.8941 ppm	0.0020 ppm	0.1836 ppm
Concentration per Run 3	0.0001 ppm	4.9937 ppm	0.0078 ppm	0.0228 ppm	0.8964 ppm	0.0022 ppm	0.1834 ppm
Concentration RSD	106.1 %	3.0 %	4.6 %	0.7 %	0.8 %	13.6 %	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	0.2903 ppm	100.4459 %	103.9902 %	86.7823 %	140.9086 %	151.8053 %	145.2354 %
Concentration per Run 1	0.2927 ppm	100.0815 %	104.3316 %	86.4628 %	141.4021 %	152.6564 %	145.4186 %
Concentration per Run 2	0.2879 ppm	100.7102 %	104.2701 %	86.5494 %	141.1458 %	151.2918 %	144.7613 %
Concentration per Run 3	0.2902 ppm	100.5459 %	103.3689 %	87.3347 %	140.1778 %	151.4676 %	145.5263 %
Concentration RSD	0.8 %	0.3 %	0.5 %	0.6 %	0.5 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: CCV
Analysis started at: 12/19/2024 8:00:26 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	0.5007 ppm	0.4781 ppm	0.4967 ppm	0.4902 ppm	0.5205 ppm	0.5247 ppm
Concentration per Run 1	0.5022 ppm	0.4993 ppm	0.4813 ppm	0.4953 ppm	0.4867 ppm	0.5209 ppm	0.5279 ppm
Concentration per Run 2	0.5026 ppm	0.5031 ppm	0.4769 ppm	0.5005 ppm	0.4951 ppm	0.5199 ppm	0.5195 ppm
Concentration per Run 3	0.4978 ppm	0.4997 ppm	0.4760 ppm	0.4942 ppm	0.4888 ppm	0.5206 ppm	0.5268 ppm
Recovery Percentage 1	100.168 %	100.139 %	95.615 %	99.334 %	98.038 %	104.091 %	104.946 %
Concentration RSD	0.5 %	0.4 %	0.6 %	0.7 %	0.9 %	0.1 %	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	0.5159 ppm	0.5266 ppm	0.5117 ppm	0.4950 ppm	0.5454 ppm	5.1750 ppm	0.4939 ppm
Concentration per Run 1	0.5148 ppm	0.5255 ppm	0.5118 ppm	0.4962 ppm	0.5489 ppm	5.1427 ppm	0.4889 ppm
Concentration per Run 2	0.5180 ppm	0.5286 ppm	0.5141 ppm	0.4974 ppm	0.5424 ppm	5.2014 ppm	0.4991 ppm
Concentration per Run 3	0.5148 ppm	0.5257 ppm	0.5092 ppm	0.4916 ppm	0.5450 ppm	5.1808 ppm	0.4935 ppm
Recovery Percentage 1	103.179 %	105.315 %	102.339 %	99.007 %	109.088 %	103.499 %	98.775 %
Concentration RSD	0.4 %	0.3 %	0.5 %	0.6 %	0.6 %	0.6 %	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	0.5212 ppm	0.5098 ppm	0.5089 ppm	10.1140 ppm	0.5269 ppm	0.4975 ppm	0.5051 ppm
Concentration per Run 1	0.5228 ppm	0.5113 ppm	0.5026 ppm	9.9207 ppm	0.5253 ppm	0.4985 ppm	0.5062 ppm
Concentration per Run 2	0.5237 ppm	0.5068 ppm	0.5117 ppm	10.2245 ppm	0.5283 ppm	0.4972 ppm	0.5082 ppm
Concentration per Run 3	0.5170 ppm	0.5114 ppm	0.5124 ppm	10.1969 ppm	0.5270 ppm	0.4968 ppm	0.5009 ppm
Recovery Percentage 1	104.234 %	101.966 %	101.783 %	101.140 %	105.375 %	99.498 %	101.019 %
Concentration RSD	0.7 %	0.5 %	1.1 %	1.7 %	0.3 %	0.2 %	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	0.4868 ppm	5.6225 ppm	0.5383 ppm	0.5215 ppm	0.5116 ppm	0.4882 ppm	0.5089 ppm
Concentration per Run 1	0.4893 ppm	5.6160 ppm	0.5329 ppm	0.5198 ppm	0.5130 ppm	0.4919 ppm	0.5101 ppm
Concentration per Run 2	0.4844 ppm	5.6531 ppm	0.5444 ppm	0.5224 ppm	0.5130 ppm	0.4860 ppm	0.5100 ppm
Concentration per Run 3	0.4865 ppm	5.5984 ppm	0.5375 ppm	0.5221 ppm	0.5087 ppm	0.4868 ppm	0.5066 ppm
Recovery Percentage 1	97.353 %	107.095 %	107.656 %	104.292 %	102.312 %	97.645 %	101.781 %
Concentration RSD	0.5 %	0.5 %	1.1 %	0.3 %	0.5 %	0.7 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5227 ppm	101.0091 %	101.7674 %	95.1851 %	97.2335 %	100.1438 %	99.4785 %
Concentration per Run 1	0.5202 ppm	100.8769 %	101.1912 %	95.0290 %	97.5891 %	99.7308 %	99.7054 %
Concentration per Run 2	0.5264 ppm	100.7467 %	102.3256 %	95.0253 %	96.8314 %	100.3241 %	99.3187 %
Concentration per Run 3	0.5214 ppm	101.4036 %	101.7854 %	95.5010 %	97.2801 %	100.3764 %	99.4115 %
Recovery Percentage 1	104.537 %						
Concentration RSD	0.6 %	0.3 %	0.6 %	0.3 %	0.4 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

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LabBook: WG2011105_12192024T8.imexp

Sample: CCB
Analysis started at: 12/19/2024 8:04:53 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	-0.0001 ppm	0.0028 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0022 ppm
Concentration per Run 1	0.0000 ppm	-0.0044 ppm	0.0022 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0033 ppm
Concentration per Run 2	0.0001 ppm	0.0029 ppm	0.0040 ppm	0.0021 ppm	0.0000 ppm	0.0000 ppm	0.0026 ppm
Concentration per Run 3	-0.0001 ppm	0.0012 ppm	0.0021 ppm	0.0019 ppm	0.0000 ppm	0.0001 ppm	0.0008 ppm
Recovery Percentage 1	-0.202 %	-0.105 %	56.154 %	4.294 %	-0.077 %	0.768 %	2.243 %
Concentration RSD	926.7 %	3,678.5 %	38.1 %	90.5 %	267.7 %	52.4 %	57.3 %

	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	0.0002 ppm	0.0069 ppm	-0.0020 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0076 ppm	-0.0043 ppm	0.0000 ppm
Concentration per Run 2	0.0001 ppm	0.0005 ppm	0.0003 ppm	0.0003 ppm	0.0061 ppm	-0.0030 ppm	0.0000 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0070 ppm	0.0011 ppm	-0.0003 ppm
Recovery Percentage 1	0.600 %	2.042 %	0.627 %	1.795 %	13.753 %	-0.082 %	-0.593 %
Concentration RSD	327.1 %	126.0 %	276.8 %	84.4 %	10.5 %	138.0 %	283.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0005 ppm	0.0001 ppm	0.0017 ppm	-0.0068 ppm	0.0001 ppm	-0.0002 ppm	0.0022 ppm
Concentration per Run 1	-0.0001 ppm	0.0002 ppm	0.0020 ppm	-0.0076 ppm	0.0007 ppm	-0.0005 ppm	0.0029 ppm
Concentration per Run 2	-0.0019 ppm	0.0000 ppm	0.0014 ppm	-0.0050 ppm	-0.0003 ppm	0.0001 ppm	0.0018 ppm
Concentration per Run 3	0.0003 ppm	0.0001 ppm	0.0017 ppm	-0.0079 ppm	-0.0001 ppm	-0.0003 ppm	0.0019 ppm
Recovery Percentage 1	-0.549 %	0.946 %	3.414 %	-0.342 %	0.403 %	-2.324 %	4.468 %
Concentration RSD	218.2 %	78.5 %	19.3 %	23.2 %	544.9 %	135.9 %	27.5 %

	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	-0.0009 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0009 ppm	-0.0001 ppm
Concentration per Run 1	-0.0007 ppm	-0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0009 ppm	-0.0002 ppm
Concentration per Run 2	-0.0004 ppm	-0.0021 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0010 ppm	-0.0001 ppm
Concentration per Run 3	0.0009 ppm	0.0009 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0009 ppm	0.0000 ppm
Recovery Percentage 1	-0.844 %	-0.172 %	-0.130 %	0.299 %	-0.384 %	-4.590 %	-1.010 %
Concentration RSD	1,006.2 %	181.2 %	51.6 %	64.7 %	237.4 %	7.2 %	87.6 %

	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	0.0008 ppm	98.9138 %	100.7530 %	96.5327 %	99.9438 %	100.8669 %	101.4932 %
Concentration per Run 1	0.0009 ppm	97.5072 %	100.5105 %	96.5619 %	99.5650 %	100.5986 %	101.8481 %
Concentration per Run 2	0.0007 ppm	99.1655 %	101.3832 %	96.0689 %	100.3626 %	101.2253 %	101.1624 %
Concentration per Run 3	0.0007 ppm	100.0686 %	100.3654 %	96.9671 %	99.9037 %	100.7768 %	101.4690 %
Recovery Percentage 1	15.025 %						
Concentration RSD	18.5 %	1.3 %	0.5 %	0.5 %	0.4 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474520-14d2 WG2011336
Analysis started at: 12/19/2024 8:10:31 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	0.0025 ppm	103.9335 ppm	0.0550 ppm	0.0195 ppm	0.2612 ppm	0.0095 ppm	4.8185 ppm
Concentration per Run 1	0.0027 ppm	104.0662 ppm	0.0537 ppm	0.0203 ppm	0.2629 ppm	0.0095 ppm	4.7958 ppm
Concentration per Run 2	0.0026 ppm	104.4184 ppm	0.0550 ppm	0.0186 ppm	0.2615 ppm	0.0095 ppm	4.8568 ppm
Concentration per Run 3	0.0024 ppm	103.3158 ppm	0.0564 ppm	0.0196 ppm	0.2592 ppm	0.0095 ppm	4.8028 ppm
Concentration RSD	6.3 %	0.5 %	2.4 %	4.4 %	0.7 %	0.2 %	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	0.0015 ppm	0.0359 ppm	0.4153 ppm	0.0652 ppm	327.9280 [SIC 500]	7.1082 ppm	0.0225 ppm
Concentration per Run 1	0.0013 ppm	0.0363 ppm	0.4193 ppm	0.0649 ppm	327.2354 ppm	7.1405 ppm	0.0229 ppm
Concentration per Run 2	0.0016 ppm	0.0360 ppm	0.4150 ppm	0.0654 ppm	330.1941 ppm	7.1149 ppm	0.0226 ppm
Concentration per Run 3	0.0017 ppm	0.0354 ppm	0.4116 ppm	0.0652 ppm	326.3543 ppm	7.0692 ppm	0.0220 ppm
Concentration RSD	12.5 %	1.3 %	0.9 %	0.4 %	0.6 %	0.5 %	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	3.9085 ppm	0.8768 ppm	0.0040 ppm	0.0740 ppm	0.0636 ppm	0.1025 ppm	0.0057 ppm
Concentration per Run 1	3.9605 ppm	0.8742 ppm	0.0046 ppm	0.0752 ppm	0.0637 ppm	0.1018 ppm	0.0064 ppm
Concentration per Run 2	3.8968 ppm	0.8834 ppm	0.0036 ppm	0.0735 ppm	0.0631 ppm	0.1034 ppm	0.0072 ppm
Concentration per Run 3	3.8684 ppm	0.8727 ppm	0.0039 ppm	0.0733 ppm	0.0639 ppm	0.1023 ppm	0.0035 ppm
Concentration RSD	1.2 %	0.7 %	12.4 %	1.4 %	0.7 %	0.8 %	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	0.0001 ppm	3.5700 ppm	0.0058 ppm	0.0175 ppm	1.1587 ppm	0.0015 ppm	0.2509 ppm
Concentration per Run 1	-0.0002 ppm	3.6292 ppm	0.0062 ppm	0.0176 ppm	1.1709 ppm	0.0019 ppm	0.2523 ppm
Concentration per Run 2	0.0003 ppm	3.5999 ppm	0.0055 ppm	0.0175 ppm	1.1548 ppm	-0.0001 ppm	0.2508 ppm
Concentration per Run 3	0.0001 ppm	3.4810 ppm	0.0057 ppm	0.0173 ppm	1.1505 ppm	0.0029 ppm	0.2496 ppm
Concentration RSD	307.4 %	2.2 %	6.2 %	0.7 %	0.9 %	99.0 %	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	0.3568 ppm	103.0664 %	105.8868 %	84.8611 %	112.4265 %	120.4244 %	114.4629 %
Concentration per Run 1	0.3610 ppm	102.4903 %	106.0869 %	85.0561 %	112.0612 %	120.7339 %	114.5044 %
Concentration per Run 2	0.3569 ppm	103.5745 %	105.3195 %	85.3380 %	112.4418 %	120.3665 %	115.0284 %
Concentration per Run 3	0.3526 ppm	103.1345 %	106.2541 %	84.1891 %	112.7766 %	120.1729 %	113.8557 %
Concentration RSD	1.2 %	0.5 %	0.5 %	0.7 %	0.3 %	0.2 %	0.5 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474520-15d2 WG2011336
Analysis started at: 12/19/2024 8:15:03 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	0.0011 ppm	36.4083 ppm	0.0588 ppm	0.0177 ppm	0.1888 ppm	0.0032 ppm	2.4218 ppm
Concentration per Run 1	0.0009 ppm	36.5057 ppm	0.0592 ppm	0.0175 ppm	0.1890 ppm	0.0032 ppm	2.4422 ppm
Concentration per Run 2	0.0012 ppm	36.3990 ppm	0.0585 ppm	0.0186 ppm	0.1884 ppm	0.0032 ppm	2.4035 ppm
Concentration per Run 3	0.0012 ppm	36.3203 ppm	0.0588 ppm	0.0169 ppm	0.1890 ppm	0.0032 ppm	2.4197 ppm
Concentration RSD	13.1 %	0.3 %	0.6 %	4.7 %	0.2 %	0.3 %	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	0.0006 ppm	0.0145 ppm	0.1304 ppm	0.0547 ppm	88.3189 ppm	4.9364 ppm	0.0178 ppm
Concentration per Run 1	0.0005 ppm	0.0147 ppm	0.1316 ppm	0.0549 ppm	88.7244 ppm	4.9404 ppm	0.0183 ppm
Concentration per Run 2	0.0007 ppm	0.0148 ppm	0.1298 ppm	0.0544 ppm	87.4518 ppm	4.9484 ppm	0.0179 ppm
Concentration per Run 3	0.0007 ppm	0.0139 ppm	0.1297 ppm	0.0547 ppm	88.7805 ppm	4.9204 ppm	0.0173 ppm
Concentration RSD	16.2 %	3.6 %	0.8 %	0.4 %	0.9 %	0.3 %	2.7 %

	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	3.2722 ppm	0.6244 ppm	0.0024 ppm	0.0522 ppm	0.0254 ppm	0.1077 ppm	0.0047 ppm
Concentration per Run 1	3.3074 ppm	0.6286 ppm	0.0023 ppm	0.0507 ppm	0.0248 ppm	0.1091 ppm	0.0057 ppm
Concentration per Run 2	3.2573 ppm	0.6202 ppm	0.0026 ppm	0.0533 ppm	0.0258 ppm	0.1067 ppm	0.0038 ppm
Concentration per Run 3	3.2519 ppm	0.6243 ppm	0.0024 ppm	0.0527 ppm	0.0256 ppm	0.1073 ppm	0.0046 ppm
Concentration RSD	0.9 %	0.7 %	6.2 %	2.6 %	2.0 %	1.2 %	20.2 %

	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	4.1048 ppm	0.0051 ppm	0.0141 ppm	0.6107 ppm	0.0002 ppm	0.1463 ppm
Concentration per Run 1	-0.0002 ppm	4.1851 ppm	0.0047 ppm	0.0142 ppm	0.6182 ppm	-0.0003 ppm	0.1479 ppm
Concentration per Run 2	0.0001 ppm	4.0913 ppm	0.0051 ppm	0.0141 ppm	0.6075 ppm	0.0010 ppm	0.1457 ppm
Concentration per Run 3	-0.0006 ppm	4.0381 ppm	0.0056 ppm	0.0140 ppm	0.6065 ppm	-0.0002 ppm	0.1454 ppm
Concentration RSD	172.0 %	1.8 %	9.5 %	0.8 %	1.1 %	422.8 %	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	0.1646 ppm	101.5694 %	103.5324 %	91.3451 %	117.1923 %	123.3654 %	119.5231 %
Concentration per Run 1	0.1662 ppm	100.7703 %	102.8071 %	91.1727 %	117.1384 %	122.9759 %	119.6616 %
Concentration per Run 2	0.1634 ppm	102.0449 %	104.6543 %	91.2682 %	117.6296 %	124.3089 %	119.4948 %
Concentration per Run 3	0.1641 ppm	101.8929 %	103.1358 %	91.5945 %	116.8090 %	122.8115 %	119.4131 %
Concentration RSD	0.9 %	0.7 %	1.0 %	0.2 %	0.4 %	0.7 %	0.1 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474520-16d2 WG2011336
Analysis started at: 12/19/2024 8:19:32 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	0.0015 ppm	63.8762 ppm	0.0567 ppm	0.0148 ppm	0.3386 ppm	0.0042 ppm	3.2575 ppm
Concentration per Run 1	0.0015 ppm	63.9894 ppm	0.0569 ppm	0.0138 ppm	0.3410 ppm	0.0043 ppm	3.2626 ppm
Concentration per Run 2	0.0016 ppm	63.6454 ppm	0.0569 ppm	0.0155 ppm	0.3366 ppm	0.0042 ppm	3.2454 ppm
Concentration per Run 3	0.0014 ppm	63.9938 ppm	0.0564 ppm	0.0151 ppm	0.3381 ppm	0.0043 ppm	3.2645 ppm
Concentration RSD	7.1 %	0.3 %	0.5 %	5.8 %	0.7 %	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	0.0006 ppm	0.0295 ppm	0.1715 ppm	0.0531 ppm	106.9555 ppm	4.1057 ppm	0.0231 ppm
Concentration per Run 1	0.0006 ppm	0.0295 ppm	0.1728 ppm	0.0531 ppm	107.0441 ppm	4.1489 ppm	0.0240 ppm
Concentration per Run 2	0.0007 ppm	0.0294 ppm	0.1713 ppm	0.0538 ppm	106.7491 ppm	4.0667 ppm	0.0229 ppm
Concentration per Run 3	0.0006 ppm	0.0295 ppm	0.1704 ppm	0.0523 ppm	107.0733 ppm	4.1016 ppm	0.0226 ppm
Concentration RSD	6.1 %	0.2 %	0.7 %	1.4 %	0.2 %	1.0 %	3.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.5633 ppm	1.0365 ppm	0.0024 ppm	0.1073 ppm	0.0416 ppm	0.1286 ppm	0.0034 ppm
Concentration per Run 1	4.6063 ppm	1.0383 ppm	0.0021 ppm	0.1094 ppm	0.0414 ppm	0.1293 ppm	0.0036 ppm
Concentration per Run 2	4.5480 ppm	1.0331 ppm	0.0028 ppm	0.1070 ppm	0.0415 ppm	0.1293 ppm	0.0037 ppm
Concentration per Run 3	4.5355 ppm	1.0382 ppm	0.0024 ppm	0.1056 ppm	0.0418 ppm	0.1272 ppm	0.0030 ppm
Concentration RSD	0.8 %	0.3 %	15.3 %	1.8 %	0.4 %	1.0 %	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	-0.0010 ppm	4.2062 ppm	0.0045 ppm	0.0189 ppm	0.8435 ppm	0.0012 ppm	0.1683 ppm
Concentration per Run 1	-0.0020 ppm	4.3603 ppm	0.0048 ppm	0.0190 ppm	0.8531 ppm	-0.0005 ppm	0.1693 ppm
Concentration per Run 2	-0.0010 ppm	4.2143 ppm	0.0045 ppm	0.0187 ppm	0.8493 ppm	0.0024 ppm	0.1682 ppm
Concentration per Run 3	0.0001 ppm	4.0439 ppm	0.0043 ppm	0.0190 ppm	0.8280 ppm	0.0017 ppm	0.1674 ppm
Concentration RSD	106.2 %	3.8 %	5.6 %	1.0 %	1.6 %	128.9 %	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	0.1971 ppm	100.7674 %	103.4880 %	89.3825 %	131.4004 %	139.3486 %	135.5296 %
Concentration per Run 1	0.1975 ppm	100.0688 %	103.0322 %	88.7699 %	131.3053 %	138.8496 %	135.1054 %
Concentration per Run 2	0.1970 ppm	100.6509 %	104.0143 %	89.6006 %	130.6764 %	139.8904 %	135.6502 %
Concentration per Run 3	0.1968 ppm	101.5826 %	103.4175 %	89.7770 %	132.2196 %	139.3058 %	135.8332 %
Concentration RSD	0.2 %	0.8 %	0.5 %	0.6 %	0.6 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474520-17d2 WG2011336
Analysis started at: 12/19/2024 8:24:02 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	0.0014 ppm	48.2748 ppm	0.0708 ppm	0.0239 ppm	0.2593 ppm	0.0042 ppm	4.9048 ppm
Concentration per Run 1	0.0013 ppm	48.2892 ppm	0.0710 ppm	0.0241 ppm	0.2582 ppm	0.0042 ppm	4.9136 ppm
Concentration per Run 2	0.0013 ppm	48.4270 ppm	0.0709 ppm	0.0234 ppm	0.2598 ppm	0.0041 ppm	4.9233 ppm
Concentration per Run 3	0.0014 ppm	48.1081 ppm	0.0706 ppm	0.0242 ppm	0.2599 ppm	0.0042 ppm	4.8776 ppm
Concentration RSD	3.9 %	0.3 %	0.3 %	1.7 %	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	0.0009 ppm	0.0210 ppm	0.1897 ppm	0.0587 ppm	124.1595 ppm	5.4146 ppm	0.0195 ppm
Concentration per Run 1	0.0009 ppm	0.0212 ppm	0.1912 ppm	0.0589 ppm	124.4581 ppm	5.3955 ppm	0.0197 ppm
Concentration per Run 2	0.0008 ppm	0.0206 ppm	0.1896 ppm	0.0585 ppm	124.4802 ppm	5.4088 ppm	0.0195 ppm
Concentration per Run 3	0.0009 ppm	0.0212 ppm	0.1883 ppm	0.0587 ppm	123.5402 ppm	5.4396 ppm	0.0194 ppm
Concentration RSD	6.2 %	1.6 %	0.8 %	0.4 %	0.4 %	0.4 %	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	3.7659 ppm	0.7462 ppm	0.0021 ppm	0.1671 ppm	0.0340 ppm	0.1872 ppm	0.0044 ppm
Concentration per Run 1	3.7900 ppm	0.7476 ppm	0.0018 ppm	0.1682 ppm	0.0334 ppm	0.1876 ppm	0.0037 ppm
Concentration per Run 2	3.7693 ppm	0.7472 ppm	0.0022 ppm	0.1639 ppm	0.0337 ppm	0.1875 ppm	0.0050 ppm
Concentration per Run 3	3.7384 ppm	0.7438 ppm	0.0024 ppm	0.1691 ppm	0.0349 ppm	0.1865 ppm	0.0044 ppm
Concentration RSD	0.7 %	0.3 %	13.8 %	1.6 %	2.4 %	0.3 %	15.0 %

	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	5.0131 ppm	0.0049 ppm	0.0202 ppm	0.8670 ppm	0.0004 ppm	0.1924 ppm
Concentration per Run 1	0.0000 ppm	5.1495 ppm	0.0052 ppm	0.0201 ppm	0.8752 ppm	0.0003 ppm	0.1937 ppm
Concentration per Run 2	-0.0001 ppm	4.9643 ppm	0.0048 ppm	0.0200 ppm	0.8657 ppm	0.0005 ppm	0.1924 ppm
Concentration per Run 3	-0.0004 ppm	4.9255 ppm	0.0045 ppm	0.0203 ppm	0.8600 ppm	0.0004 ppm	0.1910 ppm
Concentration RSD	98.9 %	2.4 %	7.2 %	0.8 %	0.9 %	29.7 %	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	0.1932 ppm	101.9016 %	104.2882 %	89.6597 %	124.9861 %	132.4211 %	127.8075 %
Concentration per Run 1	0.1939 ppm	101.1987 %	104.0107 %	89.0202 %	124.8742 %	132.2836 %	127.5696 %
Concentration per Run 2	0.1934 ppm	102.0842 %	103.8901 %	90.4216 %	125.0255 %	131.9910 %	128.5515 %
Concentration per Run 3	0.1925 ppm	102.4219 %	104.9636 %	89.5374 %	125.0587 %	132.9887 %	127.3013 %
Concentration RSD	0.4 %	0.6 %	0.6 %	0.8 %	0.1 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474520-18d2 WG2011336
Analysis started at: 12/19/2024 8:28:36 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	0.0020 ppm	88.1326 ppm	0.1000 ppm	0.0148 ppm	0.3656 ppm	0.0078 ppm	4.2152 ppm
Concentration per Run 1	0.0020 ppm	88.1947 ppm	0.1006 ppm	0.0155 ppm	0.3650 ppm	0.0078 ppm	4.2052 ppm
Concentration per Run 2	0.0021 ppm	88.0041 ppm	0.1007 ppm	0.0149 ppm	0.3643 ppm	0.0078 ppm	4.2289 ppm
Concentration per Run 3	0.0018 ppm	88.1991 ppm	0.0988 ppm	0.0140 ppm	0.3674 ppm	0.0079 ppm	4.2114 ppm
Concentration RSD	7.7 %	0.1 %	1.1 %	5.1 %	0.4 %	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	0.0012 ppm	0.0425 ppm	0.3730 ppm	0.0758 ppm	179.0212 ppm	5.2955 ppm	0.0287 ppm
Concentration per Run 1	0.0013 ppm	0.0426 ppm	0.3775 ppm	0.0763 ppm	178.6199 ppm	5.3011 ppm	0.0294 ppm
Concentration per Run 2	0.0012 ppm	0.0426 ppm	0.3706 ppm	0.0760 ppm	178.8400 ppm	5.2751 ppm	0.0285 ppm
Concentration per Run 3	0.0013 ppm	0.0422 ppm	0.3708 ppm	0.0752 ppm	179.6036 ppm	5.3103 ppm	0.0280 ppm
Concentration RSD	4.5 %	0.5 %	1.1 %	0.7 %	0.3 %	0.3 %	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	5.3946 ppm	2.1506 ppm	0.0036 ppm	0.0790 ppm	0.0608 ppm	0.1721 ppm	0.0060 ppm
Concentration per Run 1	5.4652 ppm	2.1446 ppm	0.0034 ppm	0.0800 ppm	0.0616 ppm	0.1744 ppm	0.0053 ppm
Concentration per Run 2	5.3630 ppm	2.1525 ppm	0.0039 ppm	0.0782 ppm	0.0603 ppm	0.1705 ppm	0.0054 ppm
Concentration per Run 3	5.3554 ppm	2.1548 ppm	0.0034 ppm	0.0786 ppm	0.0606 ppm	0.1715 ppm	0.0074 ppm
Concentration RSD	1.1 %	0.2 %	8.1 %	1.2 %	1.1 %	1.2 %	20.1 %

	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	4.7574 ppm	0.0063 ppm	0.0266 ppm	1.1489 ppm	0.0003 ppm	0.1792 ppm
Concentration per Run 1	0.0001 ppm	4.9546 ppm	0.0063 ppm	0.0267 ppm	1.1670 ppm	0.0006 ppm	0.1804 ppm
Concentration per Run 2	0.0014 ppm	4.7864 ppm	0.0069 ppm	0.0266 ppm	1.1519 ppm	0.0004 ppm	0.1791 ppm
Concentration per Run 3	0.0018 ppm	4.5311 ppm	0.0057 ppm	0.0266 ppm	1.1279 ppm	-0.0001 ppm	0.1781 ppm
Concentration RSD	82.6 %	4.5 %	9.6 %	0.2 %	1.7 %	118.6 %	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	0.2652 ppm	101.5932 %	104.2948 %	86.5826 %	125.4972 %	133.5437 %	128.5425 %
Concentration per Run 1	0.2692 ppm	100.8291 %	104.2207 %	86.2821 %	124.7830 %	133.8091 %	128.8009 %
Concentration per Run 2	0.2621 ppm	102.0004 %	104.3950 %	86.8649 %	126.0348 %	133.2205 %	128.4698 %
Concentration per Run 3	0.2643 ppm	101.9501 %	104.2687 %	86.6006 %	125.6739 %	133.6016 %	128.3569 %
Concentration RSD	1.4 %	0.7 %	0.1 %	0.3 %	0.5 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474520-19d2 WG2011336
Analysis started at: 12/19/2024 8:33:05 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	0.0013 ppm	56.1642 ppm	0.0703 ppm	0.0135 ppm	0.2477 ppm	0.0049 ppm	1.0657 ppm
Concentration per Run 1	0.0013 ppm	56.3226 ppm	0.0697 ppm	0.0139 ppm	0.2490 ppm	0.0049 ppm	1.0701 ppm
Concentration per Run 2	0.0014 ppm	56.0537 ppm	0.0700 ppm	0.0129 ppm	0.2466 ppm	0.0049 ppm	1.0596 ppm
Concentration per Run 3	0.0012 ppm	56.1162 ppm	0.0713 ppm	0.0135 ppm	0.2474 ppm	0.0049 ppm	1.0675 ppm
Concentration RSD	10.2 %	0.3 %	1.2 %	3.7 %	0.5 %	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	0.0006 ppm	0.0210 ppm	0.1277 ppm	0.0563 ppm	97.2627 ppm	3.4286 ppm	0.0219 ppm
Concentration per Run 1	0.0006 ppm	0.0215 ppm	0.1287 ppm	0.0569 ppm	97.6106 ppm	3.4522 ppm	0.0227 ppm
Concentration per Run 2	0.0006 ppm	0.0207 ppm	0.1284 ppm	0.0564 ppm	96.7671 ppm	3.4315 ppm	0.0214 ppm
Concentration per Run 3	0.0005 ppm	0.0207 ppm	0.1262 ppm	0.0556 ppm	97.4103 ppm	3.4020 ppm	0.0217 ppm
Concentration RSD	12.7 %	2.3 %	1.1 %	1.2 %	0.5 %	0.7 %	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	4.0548 ppm	1.9995 ppm	0.0035 ppm	0.0887 ppm	0.0410 ppm	0.1098 ppm	0.0041 ppm
Concentration per Run 1	4.1038 ppm	2.0046 ppm	0.0037 ppm	0.0891 ppm	0.0412 ppm	0.1103 ppm	0.0040 ppm
Concentration per Run 2	4.0608 ppm	1.9887 ppm	0.0031 ppm	0.0905 ppm	0.0417 ppm	0.1088 ppm	0.0049 ppm
Concentration per Run 3	3.9998 ppm	2.0051 ppm	0.0038 ppm	0.0866 ppm	0.0401 ppm	0.1103 ppm	0.0033 ppm
Concentration RSD	1.3 %	0.5 %	10.8 %	2.2 %	2.0 %	0.8 %	19.3 %

	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	-0.0013 ppm	5.4045 ppm	0.0055 ppm	0.0226 ppm	0.7400 ppm	0.0000 ppm	0.1291 ppm
Concentration per Run 1	-0.0002 ppm	5.6553 ppm	0.0048 ppm	0.0228 ppm	0.7527 ppm	-0.0007 ppm	0.1301 ppm
Concentration per Run 2	-0.0021 ppm	5.3911 ppm	0.0063 ppm	0.0225 ppm	0.7442 ppm	-0.0005 ppm	0.1294 ppm
Concentration per Run 3	-0.0018 ppm	5.1670 ppm	0.0054 ppm	0.0226 ppm	0.7231 ppm	0.0011 ppm	0.1279 ppm
Concentration RSD	76.2 %	4.5 %	13.3 %	0.8 %	2.1 %	4,201.8 %	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	0.1799 ppm	101.3146 %	103.5349 %	89.8183 %	121.0336 %	127.6421 %	124.1175 %
Concentration per Run 1	0.1828 ppm	100.3783 %	103.5304 %	89.8871 %	120.8459 %	127.6207 %	124.8139 %
Concentration per Run 2	0.1795 ppm	100.9820 %	104.1226 %	89.8438 %	120.4232 %	128.2401 %	123.7884 %
Concentration per Run 3	0.1773 ppm	102.5836 %	102.9517 %	89.7241 %	121.8316 %	127.0654 %	123.7503 %
Concentration RSD	1.5 %	1.1 %	0.6 %	0.1 %	0.6 %	0.5 %	0.5 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: CCV
Analysis started at: 12/19/2024 8:39:07 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	0.4704 ppm	0.4630 ppm	0.4571 ppm	0.4731 ppm	0.4657 ppm	0.4961 ppm	0.4868 ppm
Concentration per Run 1	0.4751 ppm	0.4664 ppm	0.4603 ppm	0.4776 ppm	0.4686 ppm	0.4967 ppm	0.4852 ppm
Concentration per Run 2	0.4684 ppm	0.4604 ppm	0.4557 ppm	0.4702 ppm	0.4652 ppm	0.4956 ppm	0.4869 ppm
Concentration per Run 3	0.4676 ppm	0.4621 ppm	0.4553 ppm	0.4714 ppm	0.4634 ppm	0.4960 ppm	0.4881 ppm
Recovery Percentage 1	94.071 %	92.592 %	91.423 %	94.613 %	93.145 %	99.217 %	97.350 %
Concentration RSD	0.9 %	0.7 %	0.6 %	0.8 %	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	0.4919 ppm	0.5000 ppm	0.4830 ppm	0.4707 ppm	0.5037 ppm	4.9275 ppm	0.4629 ppm
Concentration per Run 1	0.4979 ppm	0.5058 ppm	0.4871 ppm	0.4755 ppm	0.5048 ppm	4.9900 ppm	0.4674 ppm
Concentration per Run 2	0.4894 ppm	0.4969 ppm	0.4805 ppm	0.4684 ppm	0.5017 ppm	4.8898 ppm	0.4615 ppm
Concentration per Run 3	0.4883 ppm	0.4973 ppm	0.4814 ppm	0.4684 ppm	0.5046 ppm	4.9026 ppm	0.4597 ppm
Recovery Percentage 1	98.371 %	99.993 %	96.604 %	94.150 %	100.740 %	98.550 %	92.576 %
Concentration RSD	1.1 %	1.0 %	0.7 %	0.9 %	0.3 %	1.1 %	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	0.4931 ppm	0.4850 ppm	0.4860 ppm	9.4058 ppm	0.4981 ppm	0.4714 ppm	0.4832 ppm
Concentration per Run 1	0.5015 ppm	0.4844 ppm	0.4863 ppm	9.4604 ppm	0.5031 ppm	0.4727 ppm	0.4888 ppm
Concentration per Run 2	0.4889 ppm	0.4854 ppm	0.4841 ppm	9.3278 ppm	0.4964 ppm	0.4713 ppm	0.4762 ppm
Concentration per Run 3	0.4890 ppm	0.4852 ppm	0.4875 ppm	9.4293 ppm	0.4948 ppm	0.4701 ppm	0.4846 ppm
Recovery Percentage 1	98.629 %	96.994 %	97.193 %	94.058 %	99.623 %	94.276 %	96.639 %
Concentration RSD	1.5 %	0.1 %	0.3 %	0.7 %	0.9 %	0.3 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4659 ppm	5.3032 ppm	0.5020 ppm	0.5001 ppm	0.4834 ppm	0.4606 ppm	0.4817 ppm
Concentration per Run 1	0.4696 ppm	5.3604 ppm	0.5062 ppm	0.5027 ppm	0.4881 ppm	0.4665 ppm	0.4863 ppm
Concentration per Run 2	0.4623 ppm	5.2610 ppm	0.4984 ppm	0.4989 ppm	0.4805 ppm	0.4582 ppm	0.4792 ppm
Concentration per Run 3	0.4659 ppm	5.2882 ppm	0.5015 ppm	0.4986 ppm	0.4816 ppm	0.4571 ppm	0.4796 ppm
Recovery Percentage 1	93.186 %	101.013 %	100.402 %	100.017 %	96.684 %	92.122 %	96.342 %
Concentration RSD	0.8 %	1.0 %	0.8 %	0.5 %	0.9 %	1.1 %	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	0.4968 ppm	101.5167 %	101.6251 %	95.7436 %	97.1547 %	100.0290 %	99.6130 %
Concentration per Run 1	0.5032 ppm	100.6197 %	101.9231 %	95.4156 %	96.8794 %	100.4420 %	99.5460 %
Concentration per Run 2	0.4937 ppm	101.9873 %	101.5730 %	95.7988 %	97.5958 %	100.0152 %	99.8069 %
Concentration per Run 3	0.4936 ppm	101.9430 %	101.3791 %	96.0164 %	96.9889 %	99.6297 %	99.4862 %
Recovery Percentage 1	99.359 %						
Concentration RSD	1.1 %	0.8 %	0.3 %	0.3 %	0.4 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: CCB
Analysis started at: 12/19/2024 8:43:48 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	0.0000 ppm	0.0012 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0042 ppm
Concentration per Run 1	0.0002 ppm	-0.0005 ppm	0.0021 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0042 ppm
Concentration per Run 2	0.0000 ppm	0.0013 ppm	0.0009 ppm	0.0019 ppm	0.0000 ppm	0.0000 ppm	0.0026 ppm
Concentration per Run 3	0.0003 ppm	-0.0006 ppm	0.0006 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0058 ppm
Recovery Percentage 1	3.853 %	0.044 %	24.570 %	2.773 %	0.178 %	0.792 %	4.185 %
Concentration RSD	79.8 %	2,394.0 %	65.8 %	111.1 %	71.5 %	53.8 %	37.7 %

	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	0.0000 ppm	0.0071 ppm	-0.0033 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0002 ppm	0.0004 ppm	0.0079 ppm	-0.0092 ppm	0.0005 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	-0.0001 ppm	-0.0002 ppm	0.0074 ppm	0.0015 ppm	-0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	-0.0001 ppm	-0.0001 ppm	0.0059 ppm	-0.0023 ppm	0.0002 ppm
Recovery Percentage 1	1.018 %	2.951 %	-1.386 %	0.350 %	14.136 %	-0.133 %	2.103 %
Concentration RSD	31.2 %	36.9 %	37.1 %	881.8 %	14.9 %	163.3 %	145.7 %

	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	0.0017 ppm	-0.0069 ppm	0.0005 ppm	-0.0005 ppm	0.0031 ppm
Concentration per Run 1	-0.0014 ppm	-0.0001 ppm	0.0016 ppm	-0.0077 ppm	0.0008 ppm	-0.0005 ppm	0.0029 ppm
Concentration per Run 2	0.0011 ppm	0.0000 ppm	0.0020 ppm	-0.0050 ppm	0.0009 ppm	-0.0002 ppm	0.0037 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0016 ppm	-0.0081 ppm	-0.0003 ppm	-0.0009 ppm	0.0027 ppm
Recovery Percentage 1	-0.088 %	-0.135 %	3.483 %	-0.347 %	1.883 %	-5.237 %	6.206 %
Concentration RSD	1,466.2 %	538.5 %	13.4 %	24.5 %	136.6 %	75.6 %	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	-0.0007 ppm	-0.0007 ppm	0.0004 ppm	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 1	0.0006 ppm	-0.0011 ppm	0.0006 ppm	0.0000 ppm	-0.0001 ppm	0.0009 ppm	0.0001 ppm
Concentration per Run 2	-0.0015 ppm	0.0005 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	-0.0013 ppm	0.0000 ppm
Concentration per Run 3	-0.0013 ppm	-0.0014 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0009 ppm	0.0003 ppm
Recovery Percentage 1	-7.278 %	-0.133 %	0.785 %	0.472 %	-0.756 %	-2.106 %	1.285 %
Concentration RSD	159.5 %	153.5 %	53.7 %	48.5 %	40.5 %	283.2 %	94.8 %

	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	0.0008 ppm	98.4510 %	100.1567 %	96.0026 %	99.2356 %	100.6284 %	101.2039 %
Concentration per Run 1	0.0007 ppm	97.5257 %	100.4931 %	95.8883 %	99.3171 %	101.3566 %	101.3818 %
Concentration per Run 2	0.0010 ppm	98.9728 %	99.3980 %	95.2918 %	100.1442 %	99.9469 %	100.8661 %
Concentration per Run 3	0.0006 ppm	98.8546 %	100.5791 %	96.8276 %	98.2456 %	100.5816 %	101.3638 %
Recovery Percentage 1	15.233 %						
Concentration RSD	23.0 %	0.8 %	0.7 %	0.8 %	1.0 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2011488-1 WG2011488
Analysis started at: 12/19/2024 9:00:39 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	0.0002 ppm	0.0097 ppm	0.0013 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	0.0228 ppm
Concentration per Run 1	0.0003 ppm	0.0105 ppm	0.0007 ppm	0.0014 ppm	0.0001 ppm	0.0000 ppm	0.0225 ppm
Concentration per Run 2	0.0001 ppm	0.0099 ppm	0.0019 ppm	0.0011 ppm	0.0001 ppm	0.0000 ppm	0.0239 ppm
Concentration per Run 3	0.0002 ppm	0.0086 ppm	0.0014 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0220 ppm
Recovery Percentage 1	4.223 %	9.661 %	26.522 %	3.852 %	1.128 %	0.134 %	22.798 %
Concentration RSD	50.0 %	10.0 %	44.6 %	23.3 %	35.1 %	263.8 %	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	0.0000 ppm	0.0012 ppm	0.0252 ppm	0.0026 ppm	-0.0001 ppm
Concentration per Run 1	-0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0011 ppm	0.0254 ppm	0.0059 ppm	0.0000 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0013 ppm	0.0254 ppm	0.0021 ppm	-0.0003 ppm
Concentration per Run 3	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0013 ppm	0.0248 ppm	-0.0003 ppm	0.0000 ppm
Recovery Percentage 1	-0.836 %	0.323 %	0.379 %	12.101 %	50.372 %	0.102 %	-0.826 %
Concentration RSD	104.4 %	118.1 %	588.7 %	9.9 %	1.2 %	120.8 %	238.2 %

	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	0.0055 ppm	0.0040 ppm	-0.0005 ppm	-0.0015 ppm	0.0000 ppm	-0.0001 ppm	0.0009 ppm
Concentration per Run 1	0.0069 ppm	0.0040 ppm	-0.0009 ppm	-0.0023 ppm	-0.0001 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 2	0.0049 ppm	0.0040 ppm	-0.0002 ppm	-0.0023 ppm	0.0002 ppm	0.0005 ppm	0.0005 ppm
Concentration per Run 3	0.0046 ppm	0.0039 ppm	-0.0003 ppm	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0021 ppm
Recovery Percentage 1	5.451 %	39.560 %	-0.924 %	-0.077 %	-0.184 %	-1.380 %	1.789 %
Concentration RSD	23.5 %	1.3 %	77.0 %	84.7 %	476.5 %	407.6 %	116.7 %

	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	-0.0008 ppm	0.0094 ppm	0.0011 ppm	0.0001 ppm	0.0003 ppm	-0.0011 ppm	0.0000 ppm
Concentration per Run 1	-0.0014 ppm	0.0091 ppm	0.0008 ppm	0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 2	-0.0012 ppm	0.0092 ppm	0.0018 ppm	0.0001 ppm	0.0003 ppm	-0.0018 ppm	0.0002 ppm
Concentration per Run 3	0.0001 ppm	0.0100 ppm	0.0007 ppm	0.0001 ppm	0.0003 ppm	-0.0015 ppm	-0.0001 ppm
Recovery Percentage 1	-8.247 %	1.887 %	2.181 %	0.829 %	2.674 %	-5.308 %	0.412 %
Concentration RSD	100.0 %	4.8 %	56.7 %	11.3 %	35.3 %	90.8 %	347.5 %

	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	102.6450 %	102.1396 %	97.4285 %	99.9371 %	101.3216 %	101.3810 %
Concentration per Run 1	0.0018 ppm	101.8086 %	101.9507 %	97.2528 %	99.6169 %	101.4119 %	101.6497 %
Concentration per Run 2	0.0014 ppm	103.0396 %	102.2231 %	97.7462 %	100.4270 %	101.0569 %	101.7301 %
Concentration per Run 3	0.0017 ppm	103.0868 %	102.2451 %	97.2866 %	99.7673 %	101.4962 %	100.7632 %
Recovery Percentage 1	32.570 %						
Concentration RSD	11.2 %	0.7 %	0.2 %	0.3 %	0.4 %	0.2 %	0.5 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2011488-2D2 WG2011488
Analysis started at: 12/19/2024 9:05:15 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	0.3288 ppm	20.1182 ppm	1.1084 ppm	0.9226 ppm	1.1282 ppm	0.6655 ppm	20.3495 ppm
Concentration per Run 1	0.3321 ppm	20.3842 ppm	1.1129 ppm	0.9283 ppm	1.1388 ppm	0.6742 ppm	20.6359 ppm
Concentration per Run 2	0.3266 ppm	20.1746 ppm	1.1069 ppm	0.9195 ppm	1.1354 ppm	0.6685 ppm	20.3806 ppm
Concentration per Run 3	0.3277 ppm	19.7957 ppm	1.1053 ppm	0.9200 ppm	1.1103 ppm	0.6539 ppm	20.0319 ppm
Concentration RSD	0.9 %	1.5 %	0.4 %	0.5 %	1.4 %	1.6 %	1.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.8571 ppm	0.3342 ppm	0.7321 ppm	0.8224 ppm	24.8920 ppm	4.6216 ppm	0.5074 ppm
Concentration per Run 1	0.8710 ppm	0.3383 ppm	0.7423 ppm	0.8248 ppm	25.2253 ppm	4.6587 ppm	0.5085 ppm
Concentration per Run 2	0.8478 ppm	0.3310 ppm	0.7264 ppm	0.8155 ppm	24.9922 ppm	4.6512 ppm	0.5123 ppm
Concentration per Run 3	0.8526 ppm	0.3334 ppm	0.7276 ppm	0.8269 ppm	24.4586 ppm	4.5549 ppm	0.5015 ppm
Concentration RSD	1.4 %	1.1 %	1.2 %	0.7 %	1.6 %	1.3 %	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	6.3514 ppm	2.1120 ppm	0.5598 ppm	6.8460 ppm	1.2832 ppm	0.3766 ppm	0.8605 ppm
Concentration per Run 1	6.4310 ppm	2.1399 ppm	0.5611 ppm	6.9015 ppm	1.3050 ppm	0.3777 ppm	0.8680 ppm
Concentration per Run 2	6.3271 ppm	2.1203 ppm	0.5548 ppm	6.8747 ppm	1.2706 ppm	0.3765 ppm	0.8556 ppm
Concentration per Run 3	6.2961 ppm	2.0758 ppm	0.5633 ppm	6.7618 ppm	1.2740 ppm	0.3756 ppm	0.8580 ppm
Concentration RSD	1.1 %	1.6 %	0.8 %	1.1 %	1.5 %	0.3 %	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	0.5862 ppm	5.0380 ppm	0.3184 ppm	0.5302 ppm	1.2680 ppm	0.8034 ppm	0.4142 ppm
Concentration per Run 1	0.5852 ppm	5.1508 ppm	0.3232 ppm	0.5365 ppm	1.2824 ppm	0.8071 ppm	0.4186 ppm
Concentration per Run 2	0.5874 ppm	5.0041 ppm	0.3144 ppm	0.5328 ppm	1.2605 ppm	0.8035 ppm	0.4122 ppm
Concentration per Run 3	0.5860 ppm	4.9592 ppm	0.3176 ppm	0.5214 ppm	1.2611 ppm	0.7994 ppm	0.4117 ppm
Concentration RSD	0.2 %	2.0 %	1.4 %	1.5 %	1.0 %	0.5 %	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	0.6805 ppm	99.9120 %	102.9950 %	90.0166 %	102.7006 %	108.2380 %	105.3571 %
Concentration per Run 1	0.6940 ppm	98.7773 %	101.7188 %	89.8121 %	102.4036 %	107.0463 %	105.3373 %
Concentration per Run 2	0.6739 ppm	100.3859 %	102.8129 %	89.9626 %	102.9140 %	107.4391 %	105.0936 %
Concentration per Run 3	0.6736 ppm	100.5727 %	104.4532 %	90.2750 %	102.7841 %	110.2286 %	105.6403 %
Concentration RSD	1.7 %	1.0 %	1.3 %	0.3 %	0.3 %	1.6 %	0.3 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2011333-3D2 WG2011333
Analysis started at: 12/19/2024 9:09:45 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	0.3071 ppm	18.6759 ppm	1.0350 ppm	0.8786 ppm	1.0220 ppm	0.6399 ppm	19.0509 ppm
Concentration per Run 1	0.3098 ppm	18.7235 ppm	1.0261 ppm	0.8854 ppm	1.0211 ppm	0.6415 ppm	19.1801 ppm
Concentration per Run 2	0.3069 ppm	18.5351 ppm	1.0473 ppm	0.8755 ppm	1.0186 ppm	0.6369 ppm	18.9001 ppm
Concentration per Run 3	0.3045 ppm	18.7693 ppm	1.0316 ppm	0.8750 ppm	1.0263 ppm	0.6412 ppm	19.0724 ppm
Concentration RSD	0.9 %	0.7 %	1.1 %	0.7 %	0.4 %	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	0.8729 ppm	0.3177 ppm	0.6928 ppm	0.8095 ppm	22.0385 ppm	4.2721 ppm	0.4724 ppm
Concentration per Run 1	0.8781 ppm	0.3198 ppm	0.6996 ppm	0.8123 ppm	22.1086 ppm	4.2509 ppm	0.4714 ppm
Concentration per Run 2	0.8723 ppm	0.3178 ppm	0.6952 ppm	0.8089 ppm	21.9278 ppm	4.2678 ppm	0.4715 ppm
Concentration per Run 3	0.8684 ppm	0.3156 ppm	0.6836 ppm	0.8073 ppm	22.0790 ppm	4.2975 ppm	0.4743 ppm
Concentration RSD	0.6 %	0.7 %	1.2 %	0.3 %	0.4 %	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	5.8964 ppm	1.9652 ppm	0.5133 ppm	6.6655 ppm	1.2276 ppm	0.3442 ppm	0.8119 ppm
Concentration per Run 1	5.9625 ppm	1.9745 ppm	0.5117 ppm	6.6335 ppm	1.2417 ppm	0.3427 ppm	0.8177 ppm
Concentration per Run 2	5.8948 ppm	1.9509 ppm	0.5128 ppm	6.6375 ppm	1.2291 ppm	0.3461 ppm	0.8091 ppm
Concentration per Run 3	5.8319 ppm	1.9703 ppm	0.5153 ppm	6.7256 ppm	1.2120 ppm	0.3440 ppm	0.8089 ppm
Concentration RSD	1.1 %	0.6 %	0.4 %	0.8 %	1.2 %	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	0.5523 ppm	5.4402 ppm	0.2960 ppm	0.4934 ppm	1.1647 ppm	0.8455 ppm	0.3907 ppm
Concentration per Run 1	0.5463 ppm	5.5132 ppm	0.2982 ppm	0.4927 ppm	1.1751 ppm	0.8365 ppm	0.3944 ppm
Concentration per Run 2	0.5585 ppm	5.4106 ppm	0.2963 ppm	0.4910 ppm	1.1674 ppm	0.8542 ppm	0.3906 ppm
Concentration per Run 3	0.5521 ppm	5.3967 ppm	0.2936 ppm	0.4964 ppm	1.1516 ppm	0.8457 ppm	0.3871 ppm
Concentration RSD	1.1 %	1.2 %	0.8 %	0.6 %	1.0 %	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	0.6418 ppm	98.9574 %	101.9784 %	90.4884 %	101.9206 %	106.6834 %	104.9528 %
Concentration per Run 1	0.6469 ppm	98.3306 %	101.2360 %	90.7254 %	102.1637 %	106.2108 %	105.4329 %
Concentration per Run 2	0.6452 ppm	98.7547 %	102.7047 %	90.0693 %	101.3637 %	107.2730 %	104.4949 %
Concentration per Run 3	0.6333 ppm	99.7868 %	101.9944 %	90.6705 %	102.2344 %	106.5663 %	104.9306 %
Concentration RSD	1.2 %	0.8 %	0.7 %	0.4 %	0.5 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474646-02D2 WG2011333
Analysis started at: 12/19/2024 9:14:13 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	0.0043 ppm	85.0327 ppm	0.0614 ppm	0.0321 ppm	0.5105 ppm	0.0032 ppm	97.4553 ppm
Concentration per Run 1	0.0046 ppm	84.7507 ppm	0.0617 ppm	0.0315 ppm	0.5071 ppm	0.0032 ppm	97.5067 ppm
Concentration per Run 2	0.0044 ppm	85.5237 ppm	0.0607 ppm	0.0324 ppm	0.5151 ppm	0.0032 ppm	97.9680 ppm
Concentration per Run 3	0.0039 ppm	84.8236 ppm	0.0617 ppm	0.0323 ppm	0.5092 ppm	0.0033 ppm	96.8912 ppm
Concentration RSD	8.3 %	0.5 %	1.0 %	1.6 %	0.8 %	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	0.7560 ppm	0.0379 ppm	1.7953 ppm	1.9939 ppm	157.4562 ppm	10.8380 ppm	0.1854 ppm
Concentration per Run 1	0.7624 ppm	0.0380 ppm	1.8056 ppm	2.0115 ppm	157.1400 ppm	10.6880 ppm	0.1826 ppm
Concentration per Run 2	0.7557 ppm	0.0379 ppm	1.7932 ppm	1.9775 ppm	158.5422 ppm	10.9038 ppm	0.1874 ppm
Concentration per Run 3	0.7500 ppm	0.0378 ppm	1.7872 ppm	1.9926 ppm	156.6863 ppm	10.9223 ppm	0.1862 ppm
Concentration RSD	0.8 %	0.3 %	0.5 %	0.9 %	0.6 %	1.2 %	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	30.0153 ppm	1.4898 ppm	0.0199 ppm	1.3372 ppm	0.1460 ppm	1.5307 ppm	0.0202 ppm
Concentration per Run 1	30.2060 ppm	1.4911 ppm	0.0197 ppm	1.3270 ppm	0.1472 ppm	1.5440 ppm	0.0188 ppm
Concentration per Run 2	30.0050 ppm	1.4991 ppm	0.0198 ppm	1.3423 ppm	0.1457 ppm	1.5272 ppm	0.0204 ppm
Concentration per Run 3	29.8348 ppm	1.4791 ppm	0.0204 ppm	1.3423 ppm	0.1450 ppm	1.5209 ppm	0.0214 ppm
Concentration RSD	0.6 %	0.7 %	1.9 %	0.7 %	0.8 %	0.8 %	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	0.0025 ppm	6.3825 ppm	0.1358 ppm	0.3687 ppm	3.2961 ppm	0.0027 ppm	0.2220 ppm
Concentration per Run 1	0.0019 ppm	6.4052 ppm	0.1390 ppm	0.3664 ppm	3.3157 ppm	0.0036 ppm	0.2235 ppm
Concentration per Run 2	0.0031 ppm	6.3590 ppm	0.1347 ppm	0.3720 ppm	3.2892 ppm	0.0028 ppm	0.2207 ppm
Concentration per Run 3	0.0026 ppm	6.3832 ppm	0.1337 ppm	0.3676 ppm	3.2833 ppm	0.0017 ppm	0.2217 ppm
Concentration RSD	23.7 %	0.4 %	2.1 %	0.8 %	0.5 %	36.3 %	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	4.7449 ppm	99.4040 %	103.7062 %	79.0807 %	103.6555 %	112.5350 %	104.9862 %
Concentration per Run 1	4.7911 ppm	98.8555 %	103.4022 %	78.5600 %	103.9807 %	112.3321 %	104.9353 %
Concentration per Run 2	4.7422 ppm	99.5785 %	103.5404 %	78.7471 %	103.4925 %	112.3366 %	104.9375 %
Concentration per Run 3	4.7016 ppm	99.7780 %	104.1760 %	79.9350 %	103.4934 %	112.9362 %	105.0857 %
Concentration RSD	0.9 %	0.5 %	0.4 %	0.9 %	0.3 %	0.3 %	0.1 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2409778-196D2 WG2011488
Analysis started at: 12/19/2024 9:18:42 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	0.0004 ppm	48.0004 ppm	0.0234 ppm	0.0090 ppm	0.0743 ppm	0.0019 ppm	6.9421 ppm
Concentration per Run 1	0.0006 ppm	48.1228 ppm	0.0227 ppm	0.0089 ppm	0.0745 ppm	0.0019 ppm	6.9404 ppm
Concentration per Run 2	0.0004 ppm	47.8674 ppm	0.0239 ppm	0.0101 ppm	0.0741 ppm	0.0018 ppm	6.9353 ppm
Concentration per Run 3	0.0002 ppm	48.0109 ppm	0.0237 ppm	0.0080 ppm	0.0743 ppm	0.0019 ppm	6.9505 ppm
Concentration RSD	43.1 %	0.3 %	2.7 %	11.4 %	0.3 %	1.1 %	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	0.0005 ppm	0.0351 ppm	0.0809 ppm	0.0620 ppm	72.3371 ppm	5.0430 ppm	0.1849 ppm
Concentration per Run 1	0.0005 ppm	0.0352 ppm	0.0815 ppm	0.0630 ppm	72.4273 ppm	5.1125 ppm	0.1870 ppm
Concentration per Run 2	0.0006 ppm	0.0350 ppm	0.0809 ppm	0.0620 ppm	72.2506 ppm	4.9918 ppm	0.1832 ppm
Concentration per Run 3	0.0004 ppm	0.0350 ppm	0.0802 ppm	0.0611 ppm	72.3333 ppm	5.0249 ppm	0.1843 ppm
Concentration RSD	21.8 %	0.3 %	0.8 %	1.5 %	0.1 %	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	18.6503 ppm	0.6336 ppm	0.0028 ppm	0.6500 ppm	0.0700 ppm	0.0219 ppm	0.0014 ppm
Concentration per Run 1	18.8052 ppm	0.6351 ppm	0.0026 ppm	0.6559 ppm	0.0699 ppm	0.0217 ppm	-0.0004 ppm
Concentration per Run 2	18.6944 ppm	0.6317 ppm	0.0031 ppm	0.6478 ppm	0.0700 ppm	0.0223 ppm	0.0020 ppm
Concentration per Run 3	18.4513 ppm	0.6340 ppm	0.0026 ppm	0.6463 ppm	0.0701 ppm	0.0217 ppm	0.0025 ppm
Concentration RSD	1.0 %	0.3 %	11.5 %	0.8 %	0.2 %	1.7 %	111.6 %

	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	3.7834 ppm	0.0015 ppm	0.0395 ppm	2.8417 ppm	0.0018 ppm	0.1155 ppm
Concentration per Run 1	0.0014 ppm	3.7959 ppm	0.0015 ppm	0.0396 ppm	2.8621 ppm	0.0024 ppm	0.1161 ppm
Concentration per Run 2	0.0003 ppm	3.7753 ppm	0.0013 ppm	0.0393 ppm	2.8539 ppm	0.0012 ppm	0.1158 ppm
Concentration per Run 3	-0.0001 ppm	3.7791 ppm	0.0017 ppm	0.0395 ppm	2.8091 ppm	0.0017 ppm	0.1146 ppm
Concentration RSD	154.8 %	0.3 %	14.0 %	0.3 %	1.0 %	33.7 %	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	0.1208 ppm	101.8270 %	104.0816 %	87.5882 %	102.8040 %	108.0364 %	105.5799 %
Concentration per Run 1	0.1217 ppm	101.3330 %	104.1012 %	87.2835 %	103.3399 %	107.7686 %	105.5674 %
Concentration per Run 2	0.1212 ppm	101.6256 %	104.0766 %	87.3098 %	102.1600 %	108.2214 %	105.4128 %
Concentration per Run 3	0.1196 ppm	102.5225 %	104.0670 %	88.1712 %	102.9121 %	108.1193 %	105.7595 %
Concentration RSD	0.9 %	0.6 %	0.0 %	0.6 %	0.6 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2011488-3D2 WG2011488
Analysis started at: 12/19/2024 9:23:11 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	0.0459 ppm	51.0206 ppm	0.1239 ppm	0.8784 ppm	1.9334 ppm	0.0511 ppm	16.7116 ppm
Concentration per Run 1	0.0466 ppm	51.0480 ppm	0.1266 ppm	0.8819 ppm	1.9347 ppm	0.0512 ppm	16.8139 ppm
Concentration per Run 2	0.0458 ppm	50.6587 ppm	0.1246 ppm	0.8839 ppm	1.9310 ppm	0.0511 ppm	16.6537 ppm
Concentration per Run 3	0.0452 ppm	51.3551 ppm	0.1204 ppm	0.8695 ppm	1.9346 ppm	0.0509 ppm	16.6671 ppm
Concentration RSD	1.5 %	0.7 %	2.6 %	0.9 %	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	0.0497 ppm	0.4932 ppm	0.2602 ppm	0.2973 ppm	71.5417 ppm	13.8713 ppm	0.1871 ppm
Concentration per Run 1	0.0496 ppm	0.4929 ppm	0.2608 ppm	0.2988 ppm	71.8745 ppm	13.9376 ppm	0.1857 ppm
Concentration per Run 2	0.0500 ppm	0.4971 ppm	0.2601 ppm	0.2979 ppm	71.7993 ppm	13.7496 ppm	0.1857 ppm
Concentration per Run 3	0.0495 ppm	0.4897 ppm	0.2597 ppm	0.2952 ppm	70.9513 ppm	13.9266 ppm	0.1898 ppm
Concentration RSD	0.5 %	0.8 %	0.2 %	0.6 %	0.7 %	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	26.5779 ppm	1.0683 ppm	0.9523 ppm	10.4404 ppm	0.5170 ppm	0.5529 ppm	0.4510 ppm
Concentration per Run 1	26.6445 ppm	1.0758 ppm	0.9457 ppm	10.4044 ppm	0.5188 ppm	0.5545 ppm	0.4545 ppm
Concentration per Run 2	26.6435 ppm	1.0674 ppm	0.9576 ppm	10.3147 ppm	0.5181 ppm	0.5555 ppm	0.4528 ppm
Concentration per Run 3	26.4455 ppm	1.0616 ppm	0.9536 ppm	10.6021 ppm	0.5140 ppm	0.5487 ppm	0.4458 ppm
Concentration RSD	0.4 %	0.7 %	0.6 %	1.4 %	0.5 %	0.7 %	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	0.1017 ppm	4.8398 ppm	0.9281 ppm	0.9985 ppm	3.5716 ppm	0.1180 ppm	0.5933 ppm
Concentration per Run 1	0.1022 ppm	4.8538 ppm	0.9312 ppm	1.0011 ppm	3.5833 ppm	0.1184 ppm	0.5940 ppm
Concentration per Run 2	0.1007 ppm	4.8514 ppm	0.9284 ppm	0.9982 ppm	3.5776 ppm	0.1194 ppm	0.5966 ppm
Concentration per Run 3	0.1021 ppm	4.8143 ppm	0.9249 ppm	0.9961 ppm	3.5540 ppm	0.1163 ppm	0.5894 ppm
Concentration RSD	0.8 %	0.5 %	0.3 %	0.3 %	0.4 %	1.3 %	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	0.5735 ppm	101.3682 %	102.5658 %	83.5989 %	101.0714 %	106.6807 %	103.6549 %
Concentration per Run 1	0.5756 ppm	101.3560 %	101.7236 %	83.2330 %	101.2970 %	106.3542 %	103.0194 %
Concentration per Run 2	0.5738 ppm	101.1060 %	102.9294 %	83.5599 %	101.2465 %	106.7432 %	103.3051 %
Concentration per Run 3	0.5712 ppm	101.6426 %	103.0442 %	84.0038 %	100.6707 %	106.9446 %	104.6402 %
Concentration RSD	0.4 %	0.3 %	0.7 %	0.5 %	0.3 %	0.3 %	0.8 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2011333-4D2 WG2011333
Analysis started at: 12/19/2024 9:27:42 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	0.0475 ppm	49.8078 ppm	0.1254 ppm	0.9034 ppm	1.8938 ppm	0.0499 ppm	16.2356 ppm
Concentration per Run 1	0.0476 ppm	51.3691 ppm	0.1248 ppm	0.9030 ppm	1.9608 ppm	0.0517 ppm	16.8014 ppm
Concentration per Run 2	0.0477 ppm	51.3574 ppm	0.1256 ppm	0.9106 ppm	1.9567 ppm	0.0514 ppm	16.7217 ppm
Concentration per Run 3	0.0473 ppm	46.6969 ppm	0.1259 ppm	0.8968 ppm	1.7640 ppm	0.0465 ppm	15.1838 ppm
Concentration RSD	0.5 %	5.4 %	0.5 %	0.8 %	5.9 %	5.8 %	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	0.0503 ppm	0.5010 ppm	0.2632 ppm	0.3087 ppm	69.8787 ppm	13.6372 ppm	0.1829 ppm
Concentration per Run 1	0.0501 ppm	0.5014 ppm	0.2640 ppm	0.3093 ppm	72.4587 ppm	14.0307 ppm	0.1897 ppm
Concentration per Run 2	0.0507 ppm	0.5037 ppm	0.2629 ppm	0.3094 ppm	71.9351 ppm	14.0395 ppm	0.1881 ppm
Concentration per Run 3	0.0501 ppm	0.4980 ppm	0.2628 ppm	0.3073 ppm	65.2422 ppm	12.8415 ppm	0.1709 ppm
Concentration RSD	0.7 %	0.6 %	0.3 %	0.4 %	5.8 %	5.1 %	5.7 %

	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	27.0629 ppm	1.0443 ppm	0.9705 ppm	10.2453 ppm	0.5236 ppm	0.5601 ppm	0.4647 ppm
Concentration per Run 1	27.1420 ppm	1.0778 ppm	0.9646 ppm	10.4276 ppm	0.5248 ppm	0.5588 ppm	0.4649 ppm
Concentration per Run 2	27.1946 ppm	1.0734 ppm	0.9702 ppm	10.5973 ppm	0.5251 ppm	0.5626 ppm	0.4665 ppm
Concentration per Run 3	26.8522 ppm	0.9817 ppm	0.9766 ppm	9.7109 ppm	0.5208 ppm	0.5590 ppm	0.4628 ppm
Concentration RSD	0.7 %	5.2 %	0.6 %	4.6 %	0.5 %	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	0.1042 ppm	4.9934 ppm	0.9387 ppm	0.9788 ppm	3.6359 ppm	0.1204 ppm	0.6006 ppm
Concentration per Run 1	0.1034 ppm	4.9706 ppm	0.9389 ppm	1.0098 ppm	3.6497 ppm	0.1188 ppm	0.6055 ppm
Concentration per Run 2	0.1041 ppm	5.0504 ppm	0.9421 ppm	1.0114 ppm	3.6421 ppm	0.1220 ppm	0.5989 ppm
Concentration per Run 3	0.1051 ppm	4.9594 ppm	0.9352 ppm	0.9152 ppm	3.6160 ppm	0.1205 ppm	0.5973 ppm
Concentration RSD	0.8 %	1.0 %	0.4 %	5.6 %	0.5 %	1.3 %	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	0.5770 ppm	101.5019 %	106.4599 %	83.6253 %	101.4295 %	111.2128 %	103.4418 %
Concentration per Run 1	0.5767 ppm	101.5192 %	102.8637 %	83.0857 %	102.0890 %	106.2484 %	103.1285 %
Concentration per Run 2	0.5800 ppm	101.2283 %	103.4080 %	83.6937 %	101.0612 %	106.6758 %	103.6603 %
Concentration per Run 3	0.5744 ppm	101.7581 %	113.1080 %	84.0965 %	101.1384 %	120.7143 %	103.5365 %
Concentration RSD	0.5 %	0.3 %	5.4 %	0.6 %	0.6 %	7.4 %	0.3 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2011488-4D2 WG2011488
Analysis started at: 12/19/2024 9:32:11 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	43.9558 ppm	0.0220 ppm	0.0082 ppm	0.0663 ppm	0.0019 ppm	6.9933 ppm
Concentration per Run 1	0.0008 ppm	43.7225 ppm	0.0219 ppm	0.0077 ppm	0.0660 ppm	0.0018 ppm	6.9578 ppm
Concentration per Run 2	0.0007 ppm	43.9184 ppm	0.0223 ppm	0.0075 ppm	0.0661 ppm	0.0018 ppm	7.0367 ppm
Concentration per Run 3	0.0004 ppm	44.2263 ppm	0.0219 ppm	0.0095 ppm	0.0668 ppm	0.0020 ppm	6.9854 ppm
Concentration RSD	27.6 %	0.6 %	1.0 %	13.0 %	0.7 %	4.6 %	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	0.0004 ppm	0.0296 ppm	0.0760 ppm	0.0583 ppm	67.0018 ppm	4.7681 ppm	0.1718 ppm
Concentration per Run 1	0.0004 ppm	0.0298 ppm	0.0767 ppm	0.0591 ppm	67.0057 ppm	4.8033 ppm	0.1708 ppm
Concentration per Run 2	0.0003 ppm	0.0296 ppm	0.0763 ppm	0.0582 ppm	67.6401 ppm	4.7630 ppm	0.1701 ppm
Concentration per Run 3	0.0004 ppm	0.0295 ppm	0.0749 ppm	0.0576 ppm	66.3594 ppm	4.7381 ppm	0.1744 ppm
Concentration RSD	22.9 %	0.6 %	1.2 %	1.3 %	1.0 %	0.7 %	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	16.9332 ppm	0.6001 ppm	0.0052 ppm	0.5915 ppm	0.0649 ppm	0.0195 ppm	0.0031 ppm
Concentration per Run 1	17.1137 ppm	0.6007 ppm	0.0055 ppm	0.5878 ppm	0.0661 ppm	0.0194 ppm	0.0024 ppm
Concentration per Run 2	16.9090 ppm	0.6061 ppm	0.0051 ppm	0.5813 ppm	0.0651 ppm	0.0196 ppm	0.0019 ppm
Concentration per Run 3	16.7770 ppm	0.5936 ppm	0.0050 ppm	0.6055 ppm	0.0635 ppm	0.0194 ppm	0.0049 ppm
Concentration RSD	1.0 %	1.0 %	5.7 %	2.1 %	2.0 %	0.5 %	51.1 %

	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	-0.0001 ppm	3.2253 ppm	0.0013 ppm	0.0372 ppm	2.6423 ppm	0.0011 ppm	0.1100 ppm
Concentration per Run 1	-0.0009 ppm	3.2109 ppm	0.0022 ppm	0.0372 ppm	2.6686 ppm	0.0012 ppm	0.1101 ppm
Concentration per Run 2	0.0016 ppm	3.2887 ppm	0.0012 ppm	0.0372 ppm	2.6498 ppm	0.0004 ppm	0.1105 ppm
Concentration per Run 3	-0.0011 ppm	3.1764 ppm	0.0005 ppm	0.0372 ppm	2.6087 ppm	0.0017 ppm	0.1096 ppm
Concentration RSD	1,040.8 %	1.8 %	62.9 %	0.0 %	1.2 %	59.1 %	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	0.1138 ppm	102.5238 %	104.5224 %	88.5612 %	103.3226 %	108.3453 %	105.9371 %
Concentration per Run 1	0.1148 ppm	101.6290 %	104.9651 %	87.7999 %	103.0123 %	109.0952 %	105.6369 %
Concentration per Run 2	0.1140 ppm	102.4569 %	103.8653 %	88.9455 %	102.8672 %	108.3674 %	106.1031 %
Concentration per Run 3	0.1125 ppm	103.4856 %	104.7368 %	88.9382 %	104.0882 %	107.5732 %	106.0714 %
Concentration RSD	1.0 %	0.9 %	0.6 %	0.7 %	0.6 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2011488-5D2 WG2011488
Analysis started at: 12/19/2024 9:36:39 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	0.0455 ppm	47.3044 ppm	0.1244 ppm	0.8817 ppm	1.8517 ppm	0.0481 ppm	15.9974 ppm
Concentration per Run 1	0.0458 ppm	47.4977 ppm	0.1251 ppm	0.8868 ppm	1.8491 ppm	0.0481 ppm	16.0552 ppm
Concentration per Run 2	0.0455 ppm	46.8439 ppm	0.1234 ppm	0.8827 ppm	1.8413 ppm	0.0481 ppm	15.9951 ppm
Concentration per Run 3	0.0452 ppm	47.5714 ppm	0.1246 ppm	0.8755 ppm	1.8648 ppm	0.0481 ppm	15.9420 ppm
Concentration RSD	0.7 %	0.8 %	0.7 %	0.6 %	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	0.0471 ppm	0.4794 ppm	0.2543 ppm	0.2936 ppm	67.7997 ppm	14.5215 ppm	0.1763 ppm
Concentration per Run 1	0.0473 ppm	0.4844 ppm	0.2567 ppm	0.2956 ppm	67.5268 ppm	14.4656 ppm	0.1778 ppm
Concentration per Run 2	0.0472 ppm	0.4781 ppm	0.2537 ppm	0.2934 ppm	68.4050 ppm	14.5872 ppm	0.1728 ppm
Concentration per Run 3	0.0467 ppm	0.4756 ppm	0.2525 ppm	0.2918 ppm	67.4671 ppm	14.5118 ppm	0.1782 ppm
Concentration RSD	0.8 %	0.9 %	0.9 %	0.6 %	0.8 %	0.4 %	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	26.5350 ppm	1.0442 ppm	0.8996 ppm	10.2972 ppm	0.5106 ppm	0.5336 ppm	0.4491 ppm
Concentration per Run 1	26.7010 ppm	1.0438 ppm	0.8975 ppm	10.3260 ppm	0.5154 ppm	0.5342 ppm	0.4542 ppm
Concentration per Run 2	26.4008 ppm	1.0522 ppm	0.8992 ppm	10.0366 ppm	0.5090 ppm	0.5336 ppm	0.4504 ppm
Concentration per Run 3	26.5033 ppm	1.0365 ppm	0.9020 ppm	10.5291 ppm	0.5074 ppm	0.5329 ppm	0.4429 ppm
Concentration RSD	0.6 %	0.7 %	0.3 %	2.4 %	0.8 %	0.1 %	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	0.1004 ppm	4.0387 ppm	0.9012 ppm	0.9631 ppm	3.5708 ppm	0.1129 ppm	0.5696 ppm
Concentration per Run 1	0.1009 ppm	4.0076 ppm	0.9124 ppm	0.9612 ppm	3.5979 ppm	0.1137 ppm	0.5755 ppm
Concentration per Run 2	0.0989 ppm	4.0719 ppm	0.9021 ppm	0.9601 ppm	3.5588 ppm	0.1121 ppm	0.5661 ppm
Concentration per Run 3	0.1014 ppm	4.0367 ppm	0.8891 ppm	0.9680 ppm	3.5558 ppm	0.1129 ppm	0.5673 ppm
Concentration RSD	1.3 %	0.8 %	1.3 %	0.4 %	0.7 %	0.7 %	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	0.5584 ppm	101.2565 %	103.7753 %	84.4566 %	101.7074 %	106.7831 %	103.3032 %
Concentration per Run 1	0.5645 ppm	100.5857 %	103.4508 %	84.1331 %	101.8749 %	106.2998 %	103.3463 %
Concentration per Run 2	0.5585 ppm	101.5799 %	103.4394 %	84.5931 %	102.1101 %	106.8444 %	103.3831 %
Concentration per Run 3	0.5524 ppm	101.6038 %	104.4356 %	84.6436 %	101.1371 %	107.2052 %	103.1803 %
Concentration RSD	1.1 %	0.6 %	0.6 %	0.3 %	0.5 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2011488-6D10 WG2011488
Analysis started at: 12/19/2024 9:41:08 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	0.0003 ppm	9.7657 ppm	0.0060 ppm	0.0025 ppm	0.0153 ppm	0.0004 ppm	1.4071 ppm
Concentration per Run 1	0.0004 ppm	9.8141 ppm	0.0060 ppm	0.0027 ppm	0.0153 ppm	0.0004 ppm	1.4143 ppm
Concentration per Run 2	0.0004 ppm	9.7263 ppm	0.0054 ppm	0.0029 ppm	0.0153 ppm	0.0004 ppm	1.3907 ppm
Concentration per Run 3	0.0002 ppm	9.7566 ppm	0.0066 ppm	0.0019 ppm	0.0152 ppm	0.0004 ppm	1.4163 ppm
Concentration RSD	41.3 %	0.5 %	9.8 %	20.4 %	0.5 %	5.8 %	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	0.0001 ppm	0.0076 ppm	0.0170 ppm	0.0130 ppm	15.3121 ppm	1.0012 ppm	0.0382 ppm
Concentration per Run 1	0.0001 ppm	0.0078 ppm	0.0169 ppm	0.0130 ppm	15.3816 ppm	1.0283 ppm	0.0392 ppm
Concentration per Run 2	0.0001 ppm	0.0075 ppm	0.0169 ppm	0.0131 ppm	15.2139 ppm	1.0009 ppm	0.0377 ppm
Concentration per Run 3	0.0001 ppm	0.0074 ppm	0.0171 ppm	0.0130 ppm	15.3407 ppm	0.9743 ppm	0.0377 ppm
Concentration RSD	39.7 %	2.6 %	0.5 %	0.4 %	0.6 %	2.7 %	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	4.0258 ppm	0.1288 ppm	0.0035 ppm	0.1218 ppm	0.0157 ppm	0.0037 ppm	0.0016 ppm
Concentration per Run 1	4.0764 ppm	0.1289 ppm	0.0035 ppm	0.1262 ppm	0.0162 ppm	0.0043 ppm	0.0026 ppm
Concentration per Run 2	4.0353 ppm	0.1278 ppm	0.0036 ppm	0.1206 ppm	0.0157 ppm	0.0039 ppm	0.0014 ppm
Concentration per Run 3	3.9656 ppm	0.1297 ppm	0.0033 ppm	0.1186 ppm	0.0153 ppm	0.0029 ppm	0.0008 ppm
Concentration RSD	1.4 %	0.7 %	4.9 %	3.2 %	2.9 %	18.7 %	55.9 %

	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	0.7910 ppm	0.0008 ppm	0.0081 ppm	0.5945 ppm	0.0002 ppm	0.0238 ppm
Concentration per Run 1	0.0000 ppm	0.7959 ppm	0.0010 ppm	0.0082 ppm	0.5997 ppm	-0.0001 ppm	0.0241 ppm
Concentration per Run 2	0.0001 ppm	0.8005 ppm	0.0013 ppm	0.0081 ppm	0.5957 ppm	0.0009 ppm	0.0236 ppm
Concentration per Run 3	-0.0038 ppm	0.7765 ppm	-0.0001 ppm	0.0081 ppm	0.5881 ppm	-0.0002 ppm	0.0236 ppm
Concentration RSD	180.0 %	1.6 %	96.5 %	0.7 %	1.0 %	314.0 %	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	0.0260 ppm	100.0904 %	102.8091 %	96.1113 %	99.6850 %	103.2013 %	102.7715 %
Concentration per Run 1	0.0262 ppm	99.4648 %	102.5121 %	95.7682 %	99.9601 %	102.9671 %	102.9366 %
Concentration per Run 2	0.0259 ppm	99.4133 %	103.6223 %	95.7832 %	99.0575 %	104.1572 %	102.4960 %
Concentration per Run 3	0.0260 ppm	101.3931 %	102.2928 %	96.7824 %	100.0374 %	102.4796 %	102.8818 %
Concentration RSD	0.6 %	1.1 %	0.7 %	0.6 %	0.5 %	0.8 %	0.2 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: CCV
Analysis started at: 12/19/2024 9:45:39 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	0.4766 ppm	0.4626 ppm	0.4551 ppm	0.4794 ppm	0.4701 ppm	0.4969 ppm	0.4875 ppm
Concentration per Run 1	0.4798 ppm	0.4610 ppm	0.4552 ppm	0.4819 ppm	0.4694 ppm	0.4970 ppm	0.4878 ppm
Concentration per Run 2	0.4769 ppm	0.4639 ppm	0.4567 ppm	0.4799 ppm	0.4692 ppm	0.4976 ppm	0.4898 ppm
Concentration per Run 3	0.4730 ppm	0.4627 ppm	0.4533 ppm	0.4765 ppm	0.4718 ppm	0.4962 ppm	0.4850 ppm
Recovery Percentage 1	95.317 %	92.513 %	91.013 %	95.884 %	94.024 %	99.388 %	97.506 %
Concentration RSD	0.7 %	0.3 %	0.4 %	0.6 %	0.3 %	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	0.4907 ppm	0.5011 ppm	0.4853 ppm	0.4767 ppm	0.5039 ppm	4.9077 ppm	0.4629 ppm
Concentration per Run 1	0.4940 ppm	0.5035 ppm	0.4888 ppm	0.4788 ppm	0.5047 ppm	4.8969 ppm	0.4599 ppm
Concentration per Run 2	0.4893 ppm	0.5016 ppm	0.4840 ppm	0.4785 ppm	0.5030 ppm	4.8961 ppm	0.4613 ppm
Concentration per Run 3	0.4889 ppm	0.4981 ppm	0.4830 ppm	0.4727 ppm	0.5040 ppm	4.9300 ppm	0.4675 ppm
Recovery Percentage 1	98.149 %	100.211 %	97.058 %	95.338 %	100.783 %	98.153 %	92.579 %
Concentration RSD	0.6 %	0.6 %	0.6 %	0.7 %	0.2 %	0.4 %	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	0.4970 ppm	0.4848 ppm	0.4827 ppm	9.3915 ppm	0.4993 ppm	0.4707 ppm	0.4913 ppm
Concentration per Run 1	0.4998 ppm	0.4856 ppm	0.4809 ppm	9.3752 ppm	0.5007 ppm	0.4722 ppm	0.4941 ppm
Concentration per Run 2	0.4983 ppm	0.4860 ppm	0.4828 ppm	9.2944 ppm	0.4990 ppm	0.4713 ppm	0.4931 ppm
Concentration per Run 3	0.4927 ppm	0.4827 ppm	0.4843 ppm	9.5049 ppm	0.4981 ppm	0.4687 ppm	0.4866 ppm
Recovery Percentage 1	99.390 %	96.952 %	96.534 %	93.915 %	99.854 %	94.144 %	98.259 %
Concentration RSD	0.8 %	0.4 %	0.4 %	1.1 %	0.3 %	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	0.4644 ppm	5.3539 ppm	0.5045 ppm	0.5046 ppm	0.4879 ppm	0.4636 ppm	0.4835 ppm
Concentration per Run 1	0.4652 ppm	5.3653 ppm	0.5064 ppm	0.5050 ppm	0.4913 ppm	0.4633 ppm	0.4860 ppm
Concentration per Run 2	0.4651 ppm	5.3564 ppm	0.5012 ppm	0.5035 ppm	0.4882 ppm	0.4639 ppm	0.4836 ppm
Concentration per Run 3	0.4628 ppm	5.3400 ppm	0.5060 ppm	0.5053 ppm	0.4841 ppm	0.4636 ppm	0.4808 ppm
Recovery Percentage 1	92.873 %	101.979 %	100.910 %	100.915 %	97.576 %	92.723 %	96.692 %
Concentration RSD	0.3 %	0.2 %	0.6 %	0.2 %	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	0.4936 ppm	101.5788 %	102.0478 %	96.4734 %	97.7333 %	100.4304 %	100.1225 %
Concentration per Run 1	0.4969 ppm	101.3224 %	101.7380 %	96.0976 %	98.7136 %	100.1973 %	100.2483 %
Concentration per Run 2	0.4918 ppm	101.4908 %	101.7947 %	96.6985 %	97.5344 %	100.3423 %	100.0472 %
Concentration per Run 3	0.4922 ppm	101.9231 %	102.6107 %	96.6242 %	96.9518 %	100.7516 %	100.0721 %
Recovery Percentage 1	98.723 %						
Concentration RSD	0.6 %	0.3 %	0.5 %	0.3 %	0.9 %	0.3 %	0.1 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: CCB
Analysis started at: 12/19/2024 9:50:06 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	0.0004 ppm	-0.0006 ppm	0.0013 ppm	0.0012 ppm	0.0000 ppm	0.0001 ppm	0.0036 ppm
Concentration per Run 1	0.0003 ppm	0.0031 ppm	0.0005 ppm	0.0008 ppm	0.0000 ppm	0.0001 ppm	0.0029 ppm
Concentration per Run 2	0.0004 ppm	-0.0015 ppm	0.0011 ppm	0.0019 ppm	0.0000 ppm	0.0000 ppm	0.0033 ppm
Concentration per Run 3	0.0004 ppm	-0.0034 ppm	0.0021 ppm	0.0008 ppm	0.0000 ppm	0.0001 ppm	0.0045 ppm
Recovery Percentage 1	7.221 %	-0.614 %	25.097 %	3.896 %	0.201 %	1.289 %	3.575 %
Concentration RSD	20.5 %	548.5 %	65.9 %	55.4 %	142.2 %	28.2 %	23.2 %

	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	0.0000 ppm	0.0003 ppm	0.0067 ppm	-0.0080 ppm	-0.0002 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0068 ppm	0.0022 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0076 ppm	-0.0132 ppm	0.0000 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0001 ppm	0.0058 ppm	-0.0131 ppm	-0.0006 ppm
Recovery Percentage 1	0.516 %	-0.908 %	-0.050 %	2.580 %	13.428 %	-0.320 %	-1.524 %
Concentration RSD	239.5 %	108.9 %	4,097.9 %	67.2 %	13.8 %	110.8 %	242.4 %

	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	-0.0004 ppm	0.0000 ppm	0.0020 ppm	-0.0069 ppm	-0.0001 ppm	-0.0003 ppm	0.0027 ppm
Concentration per Run 1	-0.0014 ppm	0.0001 ppm	0.0023 ppm	-0.0075 ppm	0.0001 ppm	0.0003 ppm	0.0038 ppm
Concentration per Run 2	0.0017 ppm	-0.0001 ppm	0.0021 ppm	-0.0063 ppm	-0.0005 ppm	0.0001 ppm	0.0021 ppm
Concentration per Run 3	-0.0016 ppm	0.0000 ppm	0.0018 ppm	-0.0070 ppm	0.0002 ppm	-0.0012 ppm	0.0023 ppm
Recovery Percentage 1	-0.422 %	0.026 %	4.098 %	-0.347 %	-0.307 %	-2.670 %	5.450 %
Concentration RSD	436.8 %	3,769.5 %	10.2 %	8.7 %	457.0 %	304.0 %	32.9 %

	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	0.0009 ppm	-0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 1	0.0014 ppm	0.0000 ppm	-0.0005 ppm	0.0001 ppm	-0.0001 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 2	-0.0002 ppm	-0.0010 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	-0.0011 ppm	0.0000 ppm
Concentration per Run 3	0.0015 ppm	0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0000 ppm
Recovery Percentage 1	9.091 %	-0.064 %	-0.054 %	0.926 %	1.232 %	-2.682 %	0.347 %
Concentration RSD	102.5 %	180.4 %	1,645.1 %	31.3 %	132.0 %	133.5 %	134.5 %

	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	0.0009 ppm	99.5586 %	102.1918 %	98.2958 %	100.2692 %	102.1199 %	102.5337 %
Concentration per Run 1	0.0008 ppm	98.0590 %	102.7954 %	96.9662 %	99.5777 %	102.8786 %	101.9215 %
Concentration per Run 2	0.0010 ppm	99.8098 %	102.3673 %	98.2576 %	100.4872 %	102.2296 %	102.3871 %
Concentration per Run 3	0.0009 ppm	100.8069 %	101.4128 %	99.6637 %	100.7426 %	101.2514 %	103.2926 %
Recovery Percentage 1	17.876 %						
Concentration RSD	12.5 %	1.4 %	0.7 %	1.4 %	0.6 %	0.8 %	0.7 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: WG2010950-2 WG2010950
Analysis started at: 12/19/2024 9:55:12 PM
Rack 3
Vial 31
Comment RR Na and Al

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0530 ppm	2.1522 ppm	0.1167 ppm	1.0037 ppm	2.0225 ppm	0.0525 ppm	10.3378 ppm
Concentration per Run 1	0.0533 ppm	2.1508 ppm	0.1158 ppm	1.0160 ppm	2.0287 ppm	0.0526 ppm	10.3758 ppm
Concentration per Run 2	0.0534 ppm	2.1512 ppm	0.1185 ppm	1.0078 ppm	2.0144 ppm	0.0522 ppm	10.3168 ppm
Concentration per Run 3	0.0525 ppm	2.1545 ppm	0.1159 ppm	0.9875 ppm	2.0244 ppm	0.0526 ppm	10.3210 ppm
Concentration RSD	0.9 %	0.1 %	1.3 %	1.5 %	0.4 %	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	0.0571 ppm	0.5423 ppm	0.2148 ppm	0.2698 ppm	1.0600 ppm	10.7999 ppm	-0.0001 ppm
Concentration per Run 1	0.0584 ppm	0.5507 ppm	0.2173 ppm	0.2715 ppm	1.0619 ppm	10.7608 ppm	-0.0006 ppm
Concentration per Run 2	0.0567 ppm	0.5413 ppm	0.2146 ppm	0.2716 ppm	1.0574 ppm	10.8145 ppm	0.0004 ppm
Concentration per Run 3	0.0563 ppm	0.5349 ppm	0.2126 ppm	0.2662 ppm	1.0607 ppm	10.8243 ppm	-0.0001 ppm
Concentration RSD	2.0 %	1.5 %	1.1 %	1.1 %	0.2 %	0.3 %	402.3 %

	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	10.8607 ppm	0.5169 ppm	0.9162 ppm	10.5797 ppm	0.5299 ppm	0.5514 ppm	0.4582 ppm
Concentration per Run 1	11.0054 ppm	0.5181 ppm	0.9203 ppm	10.5543 ppm	0.5360 ppm	0.5526 ppm	0.4583 ppm
Concentration per Run 2	10.8572 ppm	0.5157 ppm	0.9120 ppm	10.5916 ppm	0.5299 ppm	0.5545 ppm	0.4592 ppm
Concentration per Run 3	10.7195 ppm	0.5169 ppm	0.9164 ppm	10.5931 ppm	0.5237 ppm	0.5472 ppm	0.4571 ppm
Concentration RSD	1.3 %	0.2 %	0.5 %	0.2 %	1.2 %	0.7 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1177 ppm	0.9367 ppm	1.0195 ppm	1.0069 ppm	1.0549 ppm	**0.1242 ppm**	0.5452 ppm
Concentration per Run 1	0.1167 ppm	0.9470 ppm	1.0307 ppm	1.0114 ppm	1.0669 ppm	0.1251 ppm	0.5520 ppm
Concentration per Run 2	0.1183 ppm	0.9390 ppm	1.0211 ppm	1.0048 ppm	1.0562 ppm	0.1241 ppm	0.5454 ppm
Concentration per Run 3	0.1182 ppm	0.9239 ppm	1.0066 ppm	1.0045 ppm	1.0416 ppm	0.1233 ppm	0.5383 ppm
Concentration RSD	0.7 %	1.3 %	1.2 %	0.4 %	1.2 %	0.8 %	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	0.5333 ppm	96.8521 %	101.3998 %	90.9697 %	98.0436 %	101.6293 %	99.6625 %
Concentration per Run 1	0.5443 ppm	95.5896 %	101.3098 %	90.3153 %	98.4792 %	101.5472 %	99.8142 %
Concentration per Run 2	0.5295 ppm	96.9945 %	101.4571 %	91.0692 %	97.8861 %	102.1863 %	99.3097 %
Concentration per Run 3	0.5259 ppm	97.9722 %	101.4326 %	91.5247 %	97.7655 %	101.1544 %	99.8635 %
Concentration RSD	1.8 %	1.2 %	0.1 %	0.7 %	0.4 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: CCV
Analysis started at: 12/19/2024 9:59:41 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	0.4756 ppm	0.4606 ppm	0.4556 ppm	0.4758 ppm	0.4678 ppm	0.4973 ppm	0.4912 ppm
Concentration per Run 1	0.4795 ppm	0.4626 ppm	0.4553 ppm	0.4816 ppm	0.4679 ppm	0.4950 ppm	0.4869 ppm
Concentration per Run 2	0.4765 ppm	0.4597 ppm	0.4555 ppm	0.4774 ppm	0.4699 ppm	0.4991 ppm	0.4914 ppm
Concentration per Run 3	0.4708 ppm	0.4596 ppm	0.4560 ppm	0.4684 ppm	0.4656 ppm	0.4978 ppm	0.4952 ppm
Recovery Percentage 1	95.114 %	92.123 %	91.121 %	95.159 %	93.554 %	99.458 %	98.236 %
Concentration RSD	0.9 %	0.4 %	0.1 %	1.4 %	0.5 %	0.4 %	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	0.4899 ppm	0.5013 ppm	0.4846 ppm	0.4765 ppm	0.5030 ppm	4.8799 ppm	0.4635 ppm
Concentration per Run 1	0.4948 ppm	0.5062 ppm	0.4903 ppm	0.4802 ppm	0.5017 ppm	4.8542 ppm	0.4636 ppm
Concentration per Run 2	0.4891 ppm	0.5010 ppm	0.4831 ppm	0.4788 ppm	0.5076 ppm	4.8779 ppm	0.4627 ppm
Concentration per Run 3	0.4859 ppm	0.4966 ppm	0.4805 ppm	0.4705 ppm	0.4997 ppm	4.9075 ppm	0.4643 ppm
Recovery Percentage 1	97.988 %	100.259 %	96.928 %	95.303 %	100.600 %	97.597 %	92.703 %
Concentration RSD	0.9 %	1.0 %	1.0 %	1.1 %	0.8 %	0.5 %	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	0.4936 ppm	0.4860 ppm	0.4875 ppm	9.3064 ppm	0.4991 ppm	0.4725 ppm	0.4960 ppm
Concentration per Run 1	0.4973 ppm	0.4840 ppm	0.4878 ppm	9.2615 ppm	0.5042 ppm	0.4749 ppm	0.5034 ppm
Concentration per Run 2	0.4941 ppm	0.4867 ppm	0.4888 ppm	9.3073 ppm	0.4999 ppm	0.4724 ppm	0.4965 ppm
Concentration per Run 3	0.4894 ppm	0.4873 ppm	0.4861 ppm	9.3506 ppm	0.4931 ppm	0.4702 ppm	0.4880 ppm
Recovery Percentage 1	98.720 %	97.199 %	97.510 %	93.064 %	99.812 %	94.499 %	99.195 %
Concentration RSD	0.8 %	0.4 %	0.3 %	0.5 %	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	0.4658 ppm	5.3227 ppm	0.5116 ppm	0.5002 ppm	0.4864 ppm	0.4635 ppm	0.4828 ppm
Concentration per Run 1	0.4693 ppm	5.3634 ppm	0.5187 ppm	0.4990 ppm	0.4896 ppm	0.4634 ppm	0.4856 ppm
Concentration per Run 2	0.4637 ppm	5.3334 ppm	0.5142 ppm	0.5016 ppm	0.4867 ppm	0.4637 ppm	0.4832 ppm
Concentration per Run 3	0.4643 ppm	5.2713 ppm	0.5017 ppm	0.5001 ppm	0.4829 ppm	0.4635 ppm	0.4797 ppm
Recovery Percentage 1	93.151 %	101.385 %	102.315 %	100.047 %	97.282 %	92.710 %	96.568 %
Concentration RSD	0.7 %	0.9 %	1.7 %	0.3 %	0.7 %	0.0 %	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	0.4948 ppm	101.7258 %	101.2450 %	96.1325 %	97.7822 %	99.3903 %	100.1342 %
Concentration per Run 1	0.5000 ppm	101.0092 %	102.0155 %	95.8259 %	97.2162 %	100.1254 %	100.1196 %
Concentration per Run 2	0.4943 ppm	101.8842 %	101.0347 %	96.3087 %	97.8271 %	99.4347 %	100.2921 %
Concentration per Run 3	0.4900 ppm	102.2841 %	100.6848 %	96.2630 %	98.3034 %	98.6109 %	99.9910 %
Recovery Percentage 1	98.957 %						
Concentration RSD	1.0 %	0.6 %	0.7 %	0.3 %	0.6 %	0.8 %	0.2 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: CCB
Analysis started at: 12/19/2024 10:04:09 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	-0.0001 ppm	0.0009 ppm	0.0014 ppm	0.0000 ppm	0.0001 ppm	0.0026 ppm
Concentration per Run 1	0.0003 ppm	0.0010 ppm	0.0019 ppm	0.0023 ppm	0.0000 ppm	0.0001 ppm	0.0019 ppm
Concentration per Run 2	0.0000 ppm	-0.0023 ppm	-0.0013 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0026 ppm
Concentration per Run 3	0.0000 ppm	0.0011 ppm	0.0019 ppm	0.0014 ppm	0.0000 ppm	0.0001 ppm	0.0031 ppm
Recovery Percentage 1	2.097 %	-0.062 %	17.305 %	4.776 %	0.277 %	1.079 %	2.556 %
Concentration RSD	145.6 %	3,070.5 %	212.0 %	57.3 %	51.4 %	24.5 %	23.5 %

	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	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0032 ppm	0.0010 ppm	0.0001 ppm
Concentration per Run 1	0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0001 ppm	0.0025 ppm	-0.0005 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0038 ppm	0.0019 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	-0.0002 ppm	-0.0003 ppm	0.0033 ppm	0.0017 ppm	-0.0002 ppm
Recovery Percentage 1	1.511 %	1.905 %	0.117 %	-0.447 %	6.454 %	0.041 %	1.164 %
Concentration RSD	199.4 %	62.5 %	1,570.3 %	509.1 %	20.0 %	131.3 %	201.8 %

	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	0.0000 ppm	0.0032 ppm	-0.0064 ppm	-0.0001 ppm	0.0000 ppm	0.0033 ppm
Concentration per Run 1	-0.0007 ppm	0.0000 ppm	0.0033 ppm	-0.0055 ppm	-0.0003 ppm	0.0004 ppm	0.0024 ppm
Concentration per Run 2	0.0007 ppm	-0.0001 ppm	0.0030 ppm	-0.0066 ppm	0.0002 ppm	0.0003 ppm	0.0021 ppm
Concentration per Run 3	0.0008 ppm	0.0001 ppm	0.0032 ppm	-0.0070 ppm	-0.0001 ppm	-0.0005 ppm	0.0053 ppm
Recovery Percentage 1	0.243 %	-0.082 %	6.409 %	-0.319 %	-0.316 %	0.495 %	6.512 %
Concentration RSD	351.4 %	983.4 %	4.6 %	11.8 %	287.1 %	971.2 %	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	-0.0011 ppm	-0.0017 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	-0.0011 ppm	0.0000 ppm
Concentration per Run 1	-0.0005 ppm	-0.0020 ppm	0.0008 ppm	0.0000 ppm	0.0001 ppm	-0.0017 ppm	0.0001 ppm
Concentration per Run 2	-0.0024 ppm	-0.0010 ppm	-0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 3	-0.0003 ppm	-0.0020 ppm	0.0013 ppm	0.0001 ppm	0.0000 ppm	-0.0011 ppm	0.0000 ppm
Recovery Percentage 1	-10.984 %	-0.339 %	1.295 %	0.662 %	0.398 %	-5.423 %	0.340 %
Concentration RSD	104.9 %	34.3 %	120.0 %	42.8 %	49.6 %	55.6 %	221.4 %

	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	100.3777 %	101.6038 %	97.7119 %	100.1009 %	103.3730 %	101.7850 %
Concentration per Run 1	0.0004 ppm	99.5684 %	101.8937 %	96.9636 %	100.4262 %	102.7212 %	101.3919 %
Concentration per Run 2	0.0004 ppm	100.2018 %	101.0501 %	98.2034 %	99.6737 %	101.1093 %	102.5471 %
Concentration per Run 3	0.0006 ppm	101.3629 %	101.8676 %	97.9686 %	100.2028 %	106.2885 %	101.4159 %
Recovery Percentage 1	9.471 %						
Concentration RSD	14.7 %	0.9 %	0.5 %	0.7 %	0.4 %	2.6 %	0.6 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474646-05D2 WG2011333
Analysis started at: 12/19/2024 10:22:42 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	0.0020 ppm	209.3486 ppm	0.1538 ppm	0.1620 ppm	0.3850 ppm	0.0103 ppm	17.7885 ppm
Concentration per Run 1	0.0021 ppm	209.7285 ppm	0.1544 ppm	0.1627 ppm	0.3849 ppm	0.0103 ppm	17.7897 ppm
Concentration per Run 2	0.0022 ppm	209.8095 ppm	0.1537 ppm	0.1628 ppm	0.3860 ppm	0.0103 ppm	17.8367 ppm
Concentration per Run 3	0.0018 ppm	208.5079 ppm	0.1532 ppm	0.1604 ppm	0.3841 ppm	0.0103 ppm	17.7391 ppm
Concentration RSD	10.6 %	0.3 %	0.4 %	0.8 %	0.3 %	0.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0008 ppm	0.0774 ppm	0.3995 ppm	0.1296 ppm	301.4247 [SIC 500]	54.5844 ppm	0.4370 ppm
Concentration per Run 1	0.0007 ppm	0.0768 ppm	0.3985 ppm	0.1291 ppm	300.7881 ppm	54.3282 ppm	0.4389 ppm
Concentration per Run 2	0.0007 ppm	0.0789 ppm	0.4060 ppm	0.1320 ppm	302.2732 ppm	54.8599 ppm	0.4374 ppm
Concentration per Run 3	0.0009 ppm	0.0766 ppm	0.3939 ppm	0.1277 ppm	301.2127 ppm	54.5651 ppm	0.4345 ppm
Concentration RSD	12.2 %	1.6 %	1.5 %	1.7 %	0.3 %	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	71.3141 ppm	3.6598 ppm	0.0428 ppm	4.6394 ppm	0.2023 ppm	0.1145 ppm	0.0033 ppm
Concentration per Run 1	70.8832 ppm	3.6579 ppm	0.0419 ppm	4.6351 ppm	0.2017 ppm	0.1138 ppm	0.0050 ppm
Concentration per Run 2	72.7164 ppm	3.6636 ppm	0.0434 ppm	4.6629 ppm	0.2057 ppm	0.1156 ppm	0.0008 ppm
Concentration per Run 3	70.3426 ppm	3.6580 ppm	0.0430 ppm	4.6203 ppm	0.1994 ppm	0.1142 ppm	0.0043 ppm
Concentration RSD	1.7 %	0.1 %	1.8 %	0.5 %	1.6 %	0.8 %	67.6 %

	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	-0.0004 ppm	4.3264 ppm	0.0098 ppm	0.1489 ppm	6.3328 ppm	0.0077 ppm	0.6199 ppm
Concentration per Run 1	0.0006 ppm	4.2890 ppm	0.0102 ppm	0.1489 ppm	6.3298 ppm	0.0086 ppm	0.6176 ppm
Concentration per Run 2	-0.0006 ppm	4.4192 ppm	0.0096 ppm	0.1494 ppm	6.4271 ppm	0.0068 ppm	0.6285 ppm
Concentration per Run 3	-0.0014 ppm	4.2710 ppm	0.0097 ppm	0.1485 ppm	6.2415 ppm	0.0077 ppm	0.6135 ppm
Concentration RSD	217.4 %	1.9 %	3.1 %	0.3 %	1.5 %	11.5 %	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	0.5844 ppm	108.1996 %	109.1956 %	75.2734 %	139.0536 %	150.2502 %	140.1642 %
Concentration per Run 1	0.5796 ppm	108.7192 %	109.0752 %	75.8456 %	138.6875 %	150.4422 %	140.3743 %
Concentration per Run 2	0.5957 ppm	106.4251 %	108.8842 %	75.0284 %	137.4322 %	150.0945 %	140.1448 %
Concentration per Run 3	0.5779 ppm	109.4545 %	109.6276 %	74.9462 %	141.0411 %	150.2140 %	139.9734 %
Concentration RSD	1.7 %	1.5 %	0.4 %	0.7 %	1.3 %	0.1 %	0.1 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474646-09D2 WG2011333
Analysis started at: 12/19/2024 10:27:32 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	0.0022 ppm	43.6044 ppm	0.0169 ppm	0.0060 ppm	0.1074 ppm	0.0017 ppm	4.8574 ppm
Concentration per Run 1	0.0024 ppm	44.0005 ppm	0.0158 ppm	0.0059 ppm	0.1080 ppm	0.0018 ppm	4.8869 ppm
Concentration per Run 2	0.0021 ppm	43.0822 ppm	0.0174 ppm	0.0059 ppm	0.1072 ppm	0.0016 ppm	4.8200 ppm
Concentration per Run 3	0.0021 ppm	43.7305 ppm	0.0174 ppm	0.0062 ppm	0.1072 ppm	0.0017 ppm	4.8652 ppm
Concentration RSD	8.2 %	1.1 %	5.3 %	3.2 %	0.4 %	4.6 %	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	0.0004 ppm	0.0213 ppm	0.1300 ppm	0.1034 ppm	61.4311 ppm	5.0848 ppm	0.1419 ppm
Concentration per Run 1	0.0004 ppm	0.0216 ppm	0.1311 ppm	0.1043 ppm	61.5626 ppm	5.0971 ppm	0.1445 ppm
Concentration per Run 2	0.0003 ppm	0.0205 ppm	0.1294 ppm	0.1035 ppm	61.6701 ppm	5.0937 ppm	0.1396 ppm
Concentration per Run 3	0.0003 ppm	0.0218 ppm	0.1296 ppm	0.1023 ppm	61.0607 ppm	5.0635 ppm	0.1417 ppm
Concentration RSD	16.3 %	3.2 %	0.7 %	1.0 %	0.5 %	0.4 %	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	16.3147 ppm	0.5709 ppm	0.0023 ppm	0.4163 ppm	0.0531 ppm	0.0188 ppm	0.0023 ppm
Concentration per Run 1	16.4697 ppm	0.5719 ppm	0.0021 ppm	0.4245 ppm	0.0530 ppm	0.0191 ppm	0.0033 ppm
Concentration per Run 2	16.2471 ppm	0.5712 ppm	0.0022 ppm	0.4028 ppm	0.0529 ppm	0.0180 ppm	0.0012 ppm
Concentration per Run 3	16.2272 ppm	0.5694 ppm	0.0024 ppm	0.4215 ppm	0.0534 ppm	0.0193 ppm	0.0026 ppm
Concentration RSD	0.8 %	0.2 %	6.5 %	2.8 %	0.5 %	3.7 %	45.9 %

	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	-0.0013 ppm	2.9128 ppm	0.0007 ppm	0.0297 ppm	2.2574 ppm	0.0012 ppm	0.0908 ppm
Concentration per Run 1	-0.0007 ppm	2.9516 ppm	0.0004 ppm	0.0298 ppm	2.2784 ppm	0.0021 ppm	0.0916 ppm
Concentration per Run 2	-0.0023 ppm	2.8904 ppm	0.0009 ppm	0.0296 ppm	2.2477 ppm	0.0007 ppm	0.0906 ppm
Concentration per Run 3	-0.0009 ppm	2.8963 ppm	0.0009 ppm	0.0297 ppm	2.2460 ppm	0.0009 ppm	0.0901 ppm
Concentration RSD	67.7 %	1.2 %	39.2 %	0.4 %	0.8 %	64.9 %	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	0.1151 ppm	101.7388 %	103.6042 %	89.2327 %	101.1962 %	104.9398 %	103.2923 %
Concentration per Run 1	0.1163 ppm	100.7872 %	103.3388 %	89.0810 %	101.2113 %	104.7872 %	103.3003 %
Concentration per Run 2	0.1141 ppm	102.1092 %	103.8701 %	88.4113 %	101.3533 %	105.3637 %	102.7840 %
Concentration per Run 3	0.1150 ppm	102.3201 %	103.6036 %	90.2059 %	101.0241 %	104.6685 %	103.7925 %
Concentration RSD	0.9 %	0.8 %	0.3 %	1.0 %	0.2 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474646-13D2 WG2011333
Analysis started at: 12/19/2024 10:32:01 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	0.0060 ppm	53.8619 ppm	0.0182 ppm	0.0074 ppm	0.1708 ppm	0.0021 ppm	7.0240 ppm
Concentration per Run 1	0.0062 ppm	54.3520 ppm	0.0178 ppm	0.0062 ppm	0.1710 ppm	0.0021 ppm	7.0911 ppm
Concentration per Run 2	0.0057 ppm	53.9662 ppm	0.0182 ppm	0.0076 ppm	0.1720 ppm	0.0021 ppm	7.0162 ppm
Concentration per Run 3	0.0059 ppm	53.2676 ppm	0.0186 ppm	0.0082 ppm	0.1695 ppm	0.0019 ppm	6.9646 ppm
Concentration RSD	4.0 %	1.0 %	2.2 %	14.0 %	0.7 %	5.3 %	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	0.0007 ppm	0.0296 ppm	0.1072 ppm	0.1618 ppm	80.7443 ppm	7.5590 ppm	0.2096 ppm
Concentration per Run 1	0.0009 ppm	0.0301 ppm	0.1083 ppm	0.1645 ppm	80.5943 ppm	7.5293 ppm	0.2106 ppm
Concentration per Run 2	0.0004 ppm	0.0294 ppm	0.1068 ppm	0.1592 ppm	80.8667 ppm	7.5479 ppm	0.2110 ppm
Concentration per Run 3	0.0007 ppm	0.0293 ppm	0.1065 ppm	0.1618 ppm	80.7717 ppm	7.5998 ppm	0.2071 ppm
Concentration RSD	35.2 %	1.5 %	0.9 %	1.6 %	0.2 %	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	25.1280 ppm	0.7965 ppm	0.0012 ppm	0.9610 ppm	0.0911 ppm	0.0244 ppm	0.0008 ppm
Concentration per Run 1	25.4577 ppm	0.7980 ppm	0.0012 ppm	0.9788 ppm	0.0921 ppm	0.0249 ppm	-0.0003 ppm
Concentration per Run 2	25.0513 ppm	0.7951 ppm	0.0011 ppm	0.9633 ppm	0.0917 ppm	0.0233 ppm	0.0029 ppm
Concentration per Run 3	24.8750 ppm	0.7964 ppm	0.0012 ppm	0.9407 ppm	0.0893 ppm	0.0250 ppm	-0.0002 ppm
Concentration RSD	1.2 %	0.2 %	7.5 %	2.0 %	1.7 %	3.9 %	229.7 %

	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	-0.0005 ppm	3.0464 ppm	0.0016 ppm	0.0343 ppm	2.9689 ppm	0.0011 ppm	0.1326 ppm
Concentration per Run 1	-0.0008 ppm	3.1435 ppm	0.0016 ppm	0.0344 ppm	3.0047 ppm	0.0024 ppm	0.1329 ppm
Concentration per Run 2	-0.0011 ppm	2.9833 ppm	0.0018 ppm	0.0344 ppm	2.9510 ppm	-0.0001 ppm	0.1329 ppm
Concentration per Run 3	0.0005 ppm	3.0125 ppm	0.0014 ppm	0.0340 ppm	2.9510 ppm	0.0011 ppm	0.1320 ppm
Concentration RSD	171.9 %	2.8 %	12.0 %	0.6 %	1.0 %	112.6 %	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	0.1503 ppm	101.4551 %	103.6456 %	86.1114 %	102.0228 %	106.4450 %	103.8968 %
Concentration per Run 1	0.1522 ppm	100.2579 %	102.8996 %	85.7644 %	101.0012 %	105.6928 %	103.8404 %
Concentration per Run 2	0.1504 ppm	101.7763 %	104.0008 %	85.9479 %	102.6116 %	106.8714 %	103.7808 %
Concentration per Run 3	0.1483 ppm	102.3312 %	104.0365 %	86.6218 %	102.4557 %	106.7709 %	104.0694 %
Concentration RSD	1.3 %	1.1 %	0.6 %	0.5 %	0.9 %	0.6 %	0.1 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474646-16D2 WG2011333
Analysis started at: 12/19/2024 10:36:31 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	46.7332 ppm	0.0131 ppm	0.0092 ppm	0.2027 ppm	0.0015 ppm	9.9888 ppm
Concentration per Run 1	0.0003 ppm	46.7623 ppm	0.0138 ppm	0.0085 ppm	0.2031 ppm	0.0015 ppm	9.9283 ppm
Concentration per Run 2	0.0004 ppm	46.0361 ppm	0.0142 ppm	0.0093 ppm	0.2012 ppm	0.0014 ppm	9.9092 ppm
Concentration per Run 3	0.0003 ppm	47.4013 ppm	0.0115 ppm	0.0097 ppm	0.2039 ppm	0.0015 ppm	10.1289 ppm
Concentration RSD	20.8 %	1.5 %	11.3 %	6.5 %	0.7 %	4.2 %	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	0.0003 ppm	0.0256 ppm	0.0952 ppm	0.1993 ppm	63.4598 ppm	7.1738 ppm	0.1845 ppm
Concentration per Run 1	0.0002 ppm	0.0257 ppm	0.0960 ppm	0.1997 ppm	63.0708 ppm	7.1162 ppm	0.1849 ppm
Concentration per Run 2	0.0003 ppm	0.0260 ppm	0.0954 ppm	0.2005 ppm	63.4206 ppm	7.1906 ppm	0.1822 ppm
Concentration per Run 3	0.0003 ppm	0.0252 ppm	0.0943 ppm	0.1978 ppm	63.8879 ppm	7.2144 ppm	0.1864 ppm
Concentration RSD	21.3 %	1.5 %	0.9 %	0.7 %	0.6 %	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	22.0893 ppm	0.6617 ppm	0.0012 ppm	1.3583 ppm	0.0745 ppm	0.0253 ppm	0.0019 ppm
Concentration per Run 1	22.3126 ppm	0.6567 ppm	0.0015 ppm	1.3637 ppm	0.0755 ppm	0.0263 ppm	0.0026 ppm
Concentration per Run 2	22.0219 ppm	0.6610 ppm	0.0011 ppm	1.3298 ppm	0.0745 ppm	0.0252 ppm	0.0012 ppm
Concentration per Run 3	21.9334 ppm	0.6675 ppm	0.0011 ppm	1.3813 ppm	0.0734 ppm	0.0244 ppm	0.0020 ppm
Concentration RSD	0.9 %	0.8 %	17.0 %	1.9 %	1.4 %	3.8 %	37.2 %

	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	-0.0013 ppm	3.3868 ppm	0.0012 ppm	0.0773 ppm	2.3160 ppm	0.0012 ppm	0.1110 ppm
Concentration per Run 1	-0.0023 ppm	3.4118 ppm	0.0018 ppm	0.0773 ppm	2.3350 ppm	0.0012 ppm	0.1121 ppm
Concentration per Run 2	-0.0015 ppm	3.3874 ppm	0.0010 ppm	0.0769 ppm	2.3158 ppm	0.0008 ppm	0.1105 ppm
Concentration per Run 3	-0.0003 ppm	3.3611 ppm	0.0008 ppm	0.0778 ppm	2.2971 ppm	0.0017 ppm	0.1103 ppm
Concentration RSD	75.4 %	0.7 %	42.2 %	0.6 %	0.8 %	35.5 %	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	0.1282 ppm	100.8809 %	103.3758 %	87.8543 %	102.2155 %	106.9039 %	104.5126 %
Concentration per Run 1	0.1294 ppm	100.2206 %	104.2528 %	87.5270 %	102.2937 %	107.2974 %	104.5659 %
Concentration per Run 2	0.1279 ppm	101.1098 %	104.0729 %	87.2410 %	102.6881 %	107.7914 %	103.7779 %
Concentration per Run 3	0.1274 ppm	101.3124 %	101.8016 %	88.7948 %	101.6646 %	105.6228 %	105.1941 %
Concentration RSD	0.8 %	0.6 %	1.3 %	0.9 %	0.5 %	1.1 %	0.7 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474646-17D2 WG2011333
Analysis started at: 12/19/2024 10:41:02 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	0.0049 ppm	70.6369 ppm	0.0663 ppm	0.0176 ppm	1.2030 ppm	0.0033 ppm	24.8761 ppm
Concentration per Run 1	0.0049 ppm	70.0808 ppm	0.0665 ppm	0.0185 ppm	1.1946 ppm	0.0032 ppm	24.6913 ppm
Concentration per Run 2	0.0050 ppm	70.9333 ppm	0.0655 ppm	0.0166 ppm	1.2077 ppm	0.0033 ppm	24.9078 ppm
Concentration per Run 3	0.0047 ppm	70.8967 ppm	0.0671 ppm	0.0177 ppm	1.2066 ppm	0.0033 ppm	25.0291 ppm
Concentration RSD	3.8 %	0.7 %	1.2 %	5.6 %	0.6 %	1.0 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.2676 ppm	0.0608 ppm	0.4572 ppm	2.3941 ppm	197.9049 ppm	6.9060 ppm	0.1141 ppm
Concentration per Run 1	0.2709 ppm	0.0606 ppm	0.4600 ppm	2.4031 ppm	196.3560 ppm	6.8748 ppm	0.1133 ppm
Concentration per Run 2	0.2696 ppm	0.0616 ppm	0.4608 ppm	2.3922 ppm	198.6011 ppm	6.9797 ppm	0.1153 ppm
Concentration per Run 3	0.2622 ppm	0.0600 ppm	0.4509 ppm	2.3869 ppm	198.7577 ppm	6.8637 ppm	0.1136 ppm
Concentration RSD	1.7 %	1.3 %	1.2 %	0.3 %	0.7 %	0.9 %	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	32.0405 ppm	2.4206 ppm	0.0182 ppm	0.8962 ppm	0.1561 ppm	1.8580 ppm	0.0113 ppm
Concentration per Run 1	32.3387 ppm	2.4027 ppm	0.0184 ppm	0.8919 ppm	0.1586 ppm	1.8657 ppm	0.0124 ppm
Concentration per Run 2	32.2306 ppm	2.4281 ppm	0.0177 ppm	0.9038 ppm	0.1570 ppm	1.8484 ppm	0.0115 ppm
Concentration per Run 3	31.5521 ppm	2.4309 ppm	0.0186 ppm	0.8930 ppm	0.1527 ppm	1.8599 ppm	0.0099 ppm
Concentration RSD	1.3 %	0.6 %	2.5 %	0.7 %	1.9 %	0.5 %	11.0 %

	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	0.0007 ppm	5.1393 ppm	0.0923 ppm	0.1477 ppm	2.7447 ppm	0.0008 ppm	0.2602 ppm
Concentration per Run 1	0.0010 ppm	5.1601 ppm	0.0928 ppm	0.1468 ppm	2.7549 ppm	0.0001 ppm	0.2615 ppm
Concentration per Run 2	0.0009 ppm	5.1908 ppm	0.0945 ppm	0.1481 ppm	2.7612 ppm	0.0021 ppm	0.2617 ppm
Concentration per Run 3	0.0004 ppm	5.0671 ppm	0.0896 ppm	0.1481 ppm	2.7180 ppm	0.0002 ppm	0.2573 ppm
Concentration RSD	46.2 %	1.3 %	2.7 %	0.5 %	0.8 %	138.9 %	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	2.7748 ppm	101.6567 %	105.4875 %	82.0324 %	112.6648 %	121.3190 %	113.6884 %
Concentration per Run 1	2.8082 ppm	101.1955 %	106.3622 %	82.1288 %	112.8772 %	121.9780 %	113.7782 %
Concentration per Run 2	2.8027 ppm	101.3761 %	105.0296 %	82.1892 %	112.4027 %	120.7179 %	113.7189 %
Concentration per Run 3	2.7135 ppm	102.3985 %	105.0708 %	81.7792 %	112.7145 %	121.2612 %	113.5680 %
Concentration RSD	1.9 %	0.6 %	0.7 %	0.3 %	0.2 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474646-18D2 WG2011333
Analysis started at: 12/19/2024 10:45:31 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	0.0010 ppm	120.5735 ppm	0.0649 ppm	0.0417 ppm	0.1291 ppm	0.0039 ppm	35.6396 ppm
Concentration per Run 1	0.0010 ppm	120.2217 ppm	0.0664 ppm	0.0415 ppm	0.1284 ppm	0.0039 ppm	35.6799 ppm
Concentration per Run 2	0.0010 ppm	120.8559 ppm	0.0639 ppm	0.0418 ppm	0.1298 ppm	0.0039 ppm	35.7743 ppm
Concentration per Run 3	0.0009 ppm	120.6428 ppm	0.0643 ppm	0.0417 ppm	0.1291 ppm	0.0039 ppm	35.4647 ppm
Concentration RSD	6.9 %	0.3 %	2.0 %	0.4 %	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	0.0010 ppm	0.0406 ppm	0.1342 ppm	0.0874 ppm	126.7754 ppm	4.0206 ppm	0.2893 ppm
Concentration per Run 1	0.0009 ppm	0.0418 ppm	0.1350 ppm	0.0879 ppm	126.4300 ppm	3.9937 ppm	0.2859 ppm
Concentration per Run 2	0.0010 ppm	0.0402 ppm	0.1335 ppm	0.0868 ppm	127.5947 ppm	4.0368 ppm	0.2903 ppm
Concentration per Run 3	0.0010 ppm	0.0399 ppm	0.1341 ppm	0.0874 ppm	126.3014 ppm	4.0313 ppm	0.2917 ppm
Concentration RSD	4.2 %	2.5 %	0.6 %	0.6 %	0.6 %	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	23.8265 ppm	1.3277 ppm	0.0114 ppm	0.9176 ppm	0.1111 ppm	0.0529 ppm	0.0019 ppm
Concentration per Run 1	24.0450 ppm	1.3273 ppm	0.0108 ppm	0.9118 ppm	0.1115 ppm	0.0529 ppm	0.0009 ppm
Concentration per Run 2	23.7088 ppm	1.3349 ppm	0.0117 ppm	0.9209 ppm	0.1104 ppm	0.0532 ppm	0.0032 ppm
Concentration per Run 3	23.7257 ppm	1.3208 ppm	0.0118 ppm	0.9200 ppm	0.1115 ppm	0.0526 ppm	0.0017 ppm
Concentration RSD	0.8 %	0.5 %	4.8 %	0.5 %	0.5 %	0.5 %	60.2 %

	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	0.0019 ppm	9.6286 ppm	0.0036 ppm	0.1691 ppm	3.6238 ppm	0.0022 ppm	0.1959 ppm
Concentration per Run 1	0.0011 ppm	9.7430 ppm	0.0041 ppm	0.1681 ppm	3.6520 ppm	0.0027 ppm	0.1974 ppm
Concentration per Run 2	0.0031 ppm	9.5761 ppm	0.0034 ppm	0.1703 ppm	3.6065 ppm	0.0019 ppm	0.1956 ppm
Concentration per Run 3	0.0016 ppm	9.5668 ppm	0.0033 ppm	0.1689 ppm	3.6130 ppm	0.0022 ppm	0.1948 ppm
Concentration RSD	52.8 %	1.0 %	12.2 %	0.7 %	0.7 %	16.8 %	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	0.5177 ppm	99.4839 %	103.6271 %	80.4674 %	104.0617 %	112.3479 %	106.5016 %
Concentration per Run 1	0.5208 ppm	98.8771 %	103.8200 %	80.2363 %	104.2172 %	112.6169 %	106.6589 %
Concentration per Run 2	0.5164 ppm	99.9747 %	102.7336 %	80.5115 %	104.8943 %	111.9322 %	106.3529 %
Concentration per Run 3	0.5159 ppm	99.6000 %	104.3278 %	80.6543 %	103.0737 %	112.4945 %	106.4931 %
Concentration RSD	0.5 %	0.6 %	0.8 %	0.3 %	0.9 %	0.3 %	0.1 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474714-01D2 WG2011488
Analysis started at: 12/19/2024 10:50:00 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	0.0022 ppm	41.8643 ppm	0.1002 ppm	0.0095 ppm	0.5892 ppm	0.0069 ppm	11.5117 ppm
Concentration per Run 1	0.0022 ppm	41.8726 ppm	0.0995 ppm	0.0098 ppm	0.5881 ppm	0.0069 ppm	11.5728 ppm
Concentration per Run 2	0.0021 ppm	42.0457 ppm	0.1010 ppm	0.0090 ppm	0.5934 ppm	0.0069 ppm	11.5160 ppm
Concentration per Run 3	0.0024 ppm	41.6747 ppm	0.1002 ppm	0.0097 ppm	0.5862 ppm	0.0068 ppm	11.4463 ppm
Concentration RSD	6.0 %	0.4 %	0.7 %	4.9 %	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	0.0025 ppm	0.0414 ppm	0.1173 ppm	0.5085 ppm	109.2105 ppm	8.3636 ppm	0.0844 ppm
Concentration per Run 1	0.0026 ppm	0.0417 ppm	0.1188 ppm	0.5133 ppm	109.8641 ppm	8.4097 ppm	0.0850 ppm
Concentration per Run 2	0.0025 ppm	0.0414 ppm	0.1164 ppm	0.5097 ppm	109.4229 ppm	8.3599 ppm	0.0846 ppm
Concentration per Run 3	0.0023 ppm	0.0412 ppm	0.1167 ppm	0.5026 ppm	108.3446 ppm	8.3213 ppm	0.0837 ppm
Concentration RSD	6.2 %	0.5 %	1.1 %	1.1 %	0.7 %	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	19.4596 ppm	1.6198 ppm	0.0021 ppm	1.3549 ppm	0.1138 ppm	1.8183 ppm	0.0264 ppm
Concentration per Run 1	19.7016 ppm	1.6279 ppm	0.0019 ppm	1.3626 ppm	0.1147 ppm	1.8211 ppm	0.0248 ppm
Concentration per Run 2	19.3365 ppm	1.6241 ppm	0.0019 ppm	1.3502 ppm	0.1128 ppm	1.8115 ppm	0.0260 ppm
Concentration per Run 3	19.3406 ppm	1.6075 ppm	0.0024 ppm	1.3520 ppm	0.1138 ppm	1.8223 ppm	0.0284 ppm
Concentration RSD	1.1 %	0.7 %	14.9 %	0.5 %	0.8 %	0.3 %	6.9 %

	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	4.0804 ppm	0.2400 ppm	0.0860 ppm	2.2720 ppm	0.0012 ppm	0.1149 ppm
Concentration per Run 1	0.0007 ppm	4.1482 ppm	0.2461 ppm	0.0862 ppm	2.2891 ppm	0.0002 ppm	0.1168 ppm
Concentration per Run 2	-0.0004 ppm	4.0811 ppm	0.2371 ppm	0.0863 ppm	2.2672 ppm	0.0019 ppm	0.1140 ppm
Concentration per Run 3	0.0005 ppm	4.0120 ppm	0.2369 ppm	0.0856 ppm	2.2597 ppm	0.0016 ppm	0.1139 ppm
Concentration RSD	219.3 %	1.7 %	2.2 %	0.5 %	0.7 %	73.5 %	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	1.4314 ppm	101.3604 %	104.4874 %	86.6059 %	115.6985 %	122.7514 %	117.7194 %
Concentration per Run 1	1.4548 ppm	100.4635 %	103.7713 %	86.4413 %	115.5592 %	122.5741 %	117.4301 %
Concentration per Run 2	1.4169 ppm	101.6909 %	104.2827 %	86.6313 %	115.8797 %	122.7400 %	118.1345 %
Concentration per Run 3	1.4224 ppm	101.9270 %	105.4082 %	86.7450 %	115.6567 %	122.9400 %	117.5935 %
Concentration RSD	1.4 %	0.8 %	0.8 %	0.2 %	0.1 %	0.1 %	0.3 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474714-02D2 WG2011488
Analysis started at: 12/19/2024 10:54:29 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	0.0018 ppm	48.0835 ppm	0.1073 ppm	0.0073 ppm	0.3922 ppm	0.0029 ppm	17.9905 ppm
Concentration per Run 1	0.0017 ppm	48.2754 ppm	0.1049 ppm	0.0073 ppm	0.3949 ppm	0.0029 ppm	17.8883 ppm
Concentration per Run 2	0.0020 ppm	48.0040 ppm	0.1082 ppm	0.0080 ppm	0.3896 ppm	0.0029 ppm	17.9604 ppm
Concentration per Run 3	0.0019 ppm	47.9710 ppm	0.1087 ppm	0.0065 ppm	0.3919 ppm	0.0030 ppm	18.1228 ppm
Concentration RSD	7.4 %	0.3 %	1.9 %	10.8 %	0.7 %	1.9 %	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	0.0018 ppm	0.0336 ppm	0.0691 ppm	0.3541 ppm	100.5832 ppm	11.0544 ppm	0.0804 ppm
Concentration per Run 1	0.0018 ppm	0.0341 ppm	0.0695 ppm	0.3573 ppm	100.5357 ppm	11.1296 ppm	0.0819 ppm
Concentration per Run 2	0.0018 ppm	0.0339 ppm	0.0692 ppm	0.3533 ppm	100.2968 ppm	11.0392 ppm	0.0802 ppm
Concentration per Run 3	0.0018 ppm	0.0329 ppm	0.0685 ppm	0.3516 ppm	100.9171 ppm	10.9943 ppm	0.0791 ppm
Concentration RSD	1.2 %	1.9 %	0.7 %	0.8 %	0.3 %	0.6 %	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	16.0631 ppm	1.4343 ppm	0.0035 ppm	3.3818 ppm	0.0698 ppm	2.4581 ppm	0.0149 ppm
Concentration per Run 1	16.1177 ppm	1.4314 ppm	0.0037 ppm	3.4020 ppm	0.0708 ppm	2.4645 ppm	0.0151 ppm
Concentration per Run 2	16.1498 ppm	1.4304 ppm	0.0030 ppm	3.3789 ppm	0.0692 ppm	2.4603 ppm	0.0135 ppm
Concentration per Run 3	15.9219 ppm	1.4412 ppm	0.0038 ppm	3.3646 ppm	0.0692 ppm	2.4494 ppm	0.0161 ppm
Concentration RSD	0.8 %	0.4 %	11.7 %	0.6 %	1.4 %	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	0.0026 ppm	5.7366 ppm	0.1513 ppm	0.1103 ppm	3.2862 ppm	0.0027 ppm	0.1192 ppm
Concentration per Run 1	0.0027 ppm	5.8572 ppm	0.1527 ppm	0.1105 ppm	3.3084 ppm	0.0027 ppm	0.1199 ppm
Concentration per Run 2	0.0014 ppm	5.7457 ppm	0.1504 ppm	0.1101 ppm	3.2899 ppm	0.0036 ppm	0.1192 ppm
Concentration per Run 3	0.0036 ppm	5.6069 ppm	0.1509 ppm	0.1102 ppm	3.2603 ppm	0.0017 ppm	0.1184 ppm
Concentration RSD	44.3 %	2.2 %	0.8 %	0.2 %	0.7 %	37.0 %	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	1.3462 ppm	101.2303 %	104.0201 %	84.9562 %	121.4321 %	129.3035 %	124.1846 %
Concentration per Run 1	1.3509 ppm	100.8579 %	104.5937 %	84.8317 %	122.0039 %	130.1515 %	124.2658 %
Concentration per Run 2	1.3575 ppm	100.9951 %	104.1982 %	84.6116 %	120.9685 %	129.3406 %	123.4585 %
Concentration per Run 3	1.3302 ppm	101.8379 %	103.2683 %	85.4254 %	121.3238 %	128.4183 %	124.8294 %
Concentration RSD	1.1 %	0.5 %	0.7 %	0.5 %	0.4 %	0.7 %	0.6 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474714-03D2 WG2011488
Analysis started at: 12/19/2024 10:58:58 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	0.0354 ppm	48.8231 ppm	0.0423 ppm	0.0055 ppm	0.2942 ppm	0.0030 ppm	11.6262 ppm
Concentration per Run 1	0.0357 ppm	49.2187 ppm	0.0427 ppm	0.0053 ppm	0.2968 ppm	0.0031 ppm	11.7288 ppm
Concentration per Run 2	0.0349 ppm	48.3289 ppm	0.0414 ppm	0.0051 ppm	0.2924 ppm	0.0029 ppm	11.5143 ppm
Concentration per Run 3	0.0355 ppm	48.9218 ppm	0.0429 ppm	0.0062 ppm	0.2934 ppm	0.0029 ppm	11.6354 ppm
Concentration RSD	1.0 %	0.9 %	2.0 %	10.8 %	0.8 %	2.6 %	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	0.0005 ppm	0.0449 ppm	0.0836 ppm	2.8656 ppm	124.0305 ppm	6.2470 ppm	0.0799 ppm
Concentration per Run 1	0.0004 ppm	0.0454 ppm	0.0842 ppm	2.9051 ppm	124.1568 ppm	6.2168 ppm	0.0812 ppm
Concentration per Run 2	0.0004 ppm	0.0446 ppm	0.0834 ppm	2.8321 ppm	123.5111 ppm	6.2093 ppm	0.0789 ppm
Concentration per Run 3	0.0006 ppm	0.0448 ppm	0.0832 ppm	2.8595 ppm	124.4235 ppm	6.3150 ppm	0.0795 ppm
Concentration RSD	20.8 %	0.9 %	0.6 %	1.3 %	0.4 %	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	16.5903 ppm	2.1214 ppm	0.0030 ppm	0.7121 ppm	0.0865 ppm	0.7435 ppm	0.0163 ppm
Concentration per Run 1	16.6938 ppm	2.1248 ppm	0.0029 ppm	0.7136 ppm	0.0859 ppm	0.7477 ppm	0.0159 ppm
Concentration per Run 2	16.5386 ppm	2.1072 ppm	0.0032 ppm	0.7059 ppm	0.0875 ppm	0.7446 ppm	0.0150 ppm
Concentration per Run 3	16.5384 ppm	2.1322 ppm	0.0029 ppm	0.7169 ppm	0.0860 ppm	0.7381 ppm	0.0179 ppm
Concentration RSD	0.5 %	0.6 %	6.0 %	0.8 %	1.0 %	0.7 %	9.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	3.8459 ppm	0.1257 ppm	0.0764 ppm	2.7560 ppm	-0.0002 ppm	0.1160 ppm
Concentration per Run 1	0.0007 ppm	3.8652 ppm	0.1256 ppm	0.0766 ppm	2.7791 ppm	-0.0004 ppm	0.1170 ppm
Concentration per Run 2	-0.0008 ppm	3.8004 ppm	0.1252 ppm	0.0760 ppm	2.7438 ppm	-0.0009 ppm	0.1161 ppm
Concentration per Run 3	-0.0002 ppm	3.8721 ppm	0.1262 ppm	0.0766 ppm	2.7450 ppm	0.0007 ppm	0.1149 ppm
Concentration RSD	730.2 %	1.0 %	0.4 %	0.5 %	0.7 %	371.1 %	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	0.3958 ppm	102.2385 %	103.6185 %	86.0259 %	116.0464 %	121.9737 %	118.1582 %
Concentration per Run 1	0.3981 ppm	101.5415 %	102.9968 %	85.7579 %	116.2019 %	121.5230 %	118.2744 %
Concentration per Run 2	0.3939 ppm	102.6118 %	104.4189 %	86.3285 %	116.2829 %	122.3341 %	118.5563 %
Concentration per Run 3	0.3955 ppm	102.5621 %	103.4397 %	85.9913 %	115.6542 %	122.0640 %	117.6439 %
Concentration RSD	0.5 %	0.6 %	0.7 %	0.3 %	0.3 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: CCV
Analysis started at: 12/19/2024 11:03:28 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	0.4773 ppm	0.4667 ppm	0.4524 ppm	0.4780 ppm	0.4714 ppm	0.4977 ppm	0.4875 ppm
Concentration per Run 1	0.4821 ppm	0.4746 ppm	0.4490 ppm	0.4825 ppm	0.4729 ppm	0.4987 ppm	0.4916 ppm
Concentration per Run 2	0.4777 ppm	0.4661 ppm	0.4540 ppm	0.4791 ppm	0.4711 ppm	0.4980 ppm	0.4858 ppm
Concentration per Run 3	0.4720 ppm	0.4593 ppm	0.4541 ppm	0.4724 ppm	0.4702 ppm	0.4965 ppm	0.4851 ppm
Recovery Percentage 1	95.460 %	93.333 %	90.475 %	95.597 %	94.279 %	99.546 %	97.500 %
Concentration RSD	1.1 %	1.6 %	0.6 %	1.1 %	0.3 %	0.2 %	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	0.4939 ppm	0.5055 ppm	0.4878 ppm	0.4786 ppm	0.5126 ppm	4.9189 ppm	0.4664 ppm
Concentration per Run 1	0.5030 ppm	0.5131 ppm	0.4965 ppm	0.4816 ppm	0.5143 ppm	4.9897 ppm	0.4705 ppm
Concentration per Run 2	0.4924 ppm	0.5048 ppm	0.4868 ppm	0.4801 ppm	0.5125 ppm	4.9081 ppm	0.4642 ppm
Concentration per Run 3	0.4864 ppm	0.4986 ppm	0.4802 ppm	0.4741 ppm	0.5110 ppm	4.8588 ppm	0.4646 ppm
Recovery Percentage 1	98.781 %	101.100 %	97.563 %	95.719 %	102.515 %	98.377 %	93.286 %
Concentration RSD	1.7 %	1.4 %	1.7 %	0.8 %	0.3 %	1.3 %	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	0.4997 ppm	0.4862 ppm	0.4836 ppm	9.4662 ppm	0.5026 ppm	0.4731 ppm	0.4910 ppm
Concentration per Run 1	0.5101 ppm	0.4869 ppm	0.4881 ppm	9.5648 ppm	0.5116 ppm	0.4729 ppm	0.4970 ppm
Concentration per Run 2	0.4952 ppm	0.4872 ppm	0.4835 ppm	9.4287 ppm	0.5023 ppm	0.4722 ppm	0.4915 ppm
Concentration per Run 3	0.4939 ppm	0.4846 ppm	0.4791 ppm	9.4051 ppm	0.4937 ppm	0.4742 ppm	0.4844 ppm
Recovery Percentage 1	99.948 %	97.241 %	96.716 %	94.662 %	100.512 %	94.620 %	98.196 %
Concentration RSD	1.8 %	0.3 %	0.9 %	0.9 %	1.8 %	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	0.4629 ppm	5.3665 ppm	0.5056 ppm	0.5046 ppm	0.4888 ppm	0.4614 ppm	0.4874 ppm
Concentration per Run 1	0.4606 ppm	5.4307 ppm	0.5173 ppm	0.5065 ppm	0.4945 ppm	0.4612 ppm	0.4946 ppm
Concentration per Run 2	0.4645 ppm	5.3723 ppm	0.5046 ppm	0.5048 ppm	0.4884 ppm	0.4621 ppm	0.4853 ppm
Concentration per Run 3	0.4636 ppm	5.2966 ppm	0.4950 ppm	0.5024 ppm	0.4836 ppm	0.4609 ppm	0.4824 ppm
Recovery Percentage 1	92.580 %	102.220 %	101.125 %	100.915 %	97.766 %	92.281 %	97.487 %
Concentration RSD	0.4 %	1.3 %	2.2 %	0.4 %	1.1 %	0.1 %	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	0.4983 ppm	101.1892 %	101.7519 %	95.7702 %	97.6998 %	100.2416 %	99.8825 %
Concentration per Run 1	0.5101 ppm	99.9139 %	101.5810 %	95.8268 %	97.3105 %	100.3507 %	100.3001 %
Concentration per Run 2	0.4968 ppm	101.2044 %	101.6662 %	95.7486 %	97.6064 %	100.1877 %	99.8534 %
Concentration per Run 3	0.4881 ppm	102.4493 %	102.0085 %	95.7352 %	98.1825 %	100.1865 %	99.4941 %
Recovery Percentage 1	99.663 %						
Concentration RSD	2.2 %	1.3 %	0.2 %	0.1 %	0.5 %	0.1 %	0.4 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: CCB
Analysis started at: 12/19/2024 11:07:55 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	0.0001 ppm	0.0022 ppm	0.0008 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	0.0056 ppm
Concentration per Run 1	0.0002 ppm	0.0002 ppm	-0.0001 ppm	0.0011 ppm	0.0001 ppm	0.0001 ppm	0.0047 ppm
Concentration per Run 2	0.0001 ppm	0.0052 ppm	0.0012 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0067 ppm
Concentration per Run 3	0.0001 ppm	0.0012 ppm	0.0013 ppm	0.0015 ppm	0.0000 ppm	0.0000 ppm	0.0055 ppm
Recovery Percentage 1	2.629 %	2.191 %	16.358 %	3.884 %	0.595 %	0.897 %	5.625 %
Concentration RSD	53.0 %	122.2 %	92.5 %	30.7 %	36.7 %	19.9 %	17.6 %

	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	0.0000 ppm	0.0001 ppm	0.0046 ppm	0.0028 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0040 ppm	0.0155 ppm	0.0001 ppm
Concentration per Run 2	-0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0056 ppm	-0.0069 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0042 ppm	-0.0002 ppm	0.0002 ppm
Recovery Percentage 1	-0.264 %	2.282 %	0.400 %	0.841 %	9.175 %	0.111 %	1.146 %
Concentration RSD	651.1 %	30.1 %	431.9 %	79.3 %	18.9 %	415.4 %	55.6 %

	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	-0.0004 ppm	0.0000 ppm	0.0018 ppm	-0.0083 ppm	0.0001 ppm	-0.0006 ppm	0.0014 ppm
Concentration per Run 1	-0.0007 ppm	0.0000 ppm	0.0018 ppm	-0.0089 ppm	0.0000 ppm	-0.0011 ppm	0.0012 ppm
Concentration per Run 2	-0.0008 ppm	-0.0001 ppm	0.0018 ppm	-0.0086 ppm	0.0000 ppm	-0.0003 ppm	0.0006 ppm
Concentration per Run 3	0.0004 ppm	0.0001 ppm	0.0018 ppm	-0.0073 ppm	0.0004 ppm	-0.0005 ppm	0.0023 ppm
Recovery Percentage 1	-0.373 %	-0.023 %	3.651 %	-0.413 %	0.599 %	-5.906 %	2.766 %
Concentration RSD	172.2 %	3,184.6 %	1.0 %	10.2 %	128.3 %	70.6 %	60.7 %

	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	0.0007 ppm	-0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 1	-0.0012 ppm	-0.0004 ppm	-0.0007 ppm	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run 2	0.0014 ppm	0.0019 ppm	-0.0008 ppm	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 3	0.0000 ppm	0.0006 ppm	-0.0003 ppm	0.0000 ppm	0.0002 ppm	-0.0006 ppm	-0.0001 ppm
Recovery Percentage 1	0.653 %	0.143 %	-1.154 %	0.304 %	0.079 %	0.366 %	0.067 %
Concentration RSD	1,979.2 %	161.0 %	47.3 %	42.6 %	2,835.5 %	791.4 %	1,763.0 %

	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	98.9961 %	100.8797 %	97.1936 %	99.4787 %	101.3664 %	101.7188 %
Concentration per Run 1	0.0003 ppm	97.7838 %	101.0218 %	97.3377 %	99.5501 %	101.3926 %	102.3029 %
Concentration per Run 2	0.0004 ppm	99.8361 %	101.0529 %	96.9481 %	100.2260 %	101.5344 %	101.3862 %
Concentration per Run 3	0.0006 ppm	99.3683 %	100.5645 %	97.2950 %	98.6599 %	101.1723 %	101.4673 %
Recovery Percentage 1	8.911 %						
Concentration RSD	40.3 %	1.1 %	0.3 %	0.2 %	0.8 %	0.2 %	0.5 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474714-04D2 WG2011488
Analysis started at: 12/19/2024 11:12:23 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	0.0011 ppm	65.5131 ppm	0.0314 ppm	0.0046 ppm	0.3928 ppm	0.0033 ppm	20.5497 ppm
Concentration per Run 1	0.0012 ppm	65.5411 ppm	0.0318 ppm	0.0054 ppm	0.3931 ppm	0.0033 ppm	20.6829 ppm
Concentration per Run 2	0.0008 ppm	65.2108 ppm	0.0313 ppm	0.0036 ppm	0.3923 ppm	0.0032 ppm	20.3592 ppm
Concentration per Run 3	0.0012 ppm	65.7875 ppm	0.0309 ppm	0.0049 ppm	0.3929 ppm	0.0033 ppm	20.6070 ppm
Concentration RSD	23.1 %	0.4 %	1.4 %	19.9 %	0.1 %	1.9 %	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	0.0009 ppm	0.0541 ppm	0.1022 ppm	0.1551 ppm	164.4776 ppm	12.9334 ppm	0.0874 ppm
Concentration per Run 1	0.0009 ppm	0.0545 ppm	0.1029 ppm	0.1565 ppm	164.5598 ppm	12.9072 ppm	0.0873 ppm
Concentration per Run 2	0.0007 ppm	0.0539 ppm	0.1017 ppm	0.1541 ppm	163.8744 ppm	12.9713 ppm	0.0879 ppm
Concentration per Run 3	0.0011 ppm	0.0540 ppm	0.1018 ppm	0.1547 ppm	164.9985 ppm	12.9217 ppm	0.0871 ppm
Concentration RSD	22.1 %	0.6 %	0.6 %	0.8 %	0.3 %	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	23.5877 ppm	1.9629 ppm	0.0020 ppm	1.9793 ppm	0.1139 ppm	1.2616 ppm	0.0074 ppm
Concentration per Run 1	23.8247 ppm	1.9730 ppm	0.0021 ppm	1.9814 ppm	0.1150 ppm	1.2634 ppm	0.0078 ppm
Concentration per Run 2	23.4122 ppm	1.9503 ppm	0.0019 ppm	1.9637 ppm	0.1134 ppm	1.2645 ppm	0.0068 ppm
Concentration per Run 3	23.5263 ppm	1.9653 ppm	0.0020 ppm	1.9927 ppm	0.1135 ppm	1.2569 ppm	0.0076 ppm
Concentration RSD	0.9 %	0.6 %	3.7 %	0.7 %	0.8 %	0.3 %	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	0.0018 ppm	5.4821 ppm	0.0108 ppm	0.0961 ppm	4.0992 ppm	0.0023 ppm	0.1467 ppm
Concentration per Run 1	0.0021 ppm	5.5076 ppm	0.0120 ppm	0.0961 ppm	4.1304 ppm	0.0018 ppm	0.1475 ppm
Concentration per Run 2	0.0010 ppm	5.4061 ppm	0.0100 ppm	0.0959 ppm	4.0787 ppm	0.0017 ppm	0.1470 ppm
Concentration per Run 3	0.0024 ppm	5.5328 ppm	0.0106 ppm	0.0965 ppm	4.0886 ppm	0.0033 ppm	0.1455 ppm
Concentration RSD	38.4 %	1.2 %	9.4 %	0.3 %	0.7 %	38.9 %	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	0.8578 ppm	101.6355 %	104.1399 %	82.3479 %	119.8285 %	127.1299 %	122.7772 %
Concentration per Run 1	0.8659 ppm	101.3856 %	103.6893 %	82.2003 %	120.1581 %	126.7557 %	122.6948 %
Concentration per Run 2	0.8543 ppm	101.7460 %	105.1431 %	81.8349 %	120.2471 %	127.9637 %	122.1752 %
Concentration per Run 3	0.8532 ppm	101.7748 %	103.5872 %	83.0084 %	119.0802 %	126.6702 %	123.4618 %
Concentration RSD	0.8 %	0.2 %	0.8 %	0.7 %	0.5 %	0.6 %	0.5 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474714-05D2 WG2011488
Analysis started at: 12/19/2024 11:17:01 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	0.0012 ppm	49.3648 ppm	0.0434 ppm	0.0044 ppm	0.2651 ppm	0.0037 ppm	10.1839 ppm
Concentration per Run 1	0.0011 ppm	49.4805 ppm	0.0437 ppm	0.0046 ppm	0.2642 ppm	0.0037 ppm	10.1419 ppm
Concentration per Run 2	0.0013 ppm	49.3159 ppm	0.0427 ppm	0.0044 ppm	0.2653 ppm	0.0037 ppm	10.1498 ppm
Concentration per Run 3	0.0012 ppm	49.2981 ppm	0.0436 ppm	0.0043 ppm	0.2658 ppm	0.0037 ppm	10.2600 ppm
Concentration RSD	6.8 %	0.2 %	1.3 %	3.1 %	0.3 %	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	0.0009 ppm	0.0420 ppm	0.0792 ppm	0.1784 ppm	113.7317 ppm	5.8499 ppm	0.0722 ppm
Concentration per Run 1	0.0009 ppm	0.0420 ppm	0.0796 ppm	0.1797 ppm	113.0927 ppm	5.8465 ppm	0.0728 ppm
Concentration per Run 2	0.0008 ppm	0.0425 ppm	0.0798 ppm	0.1780 ppm	113.4830 ppm	5.8650 ppm	0.0726 ppm
Concentration per Run 3	0.0010 ppm	0.0416 ppm	0.0783 ppm	0.1775 ppm	114.6193 ppm	5.8381 ppm	0.0713 ppm
Concentration RSD	10.9 %	1.0 %	1.0 %	0.7 %	0.7 %	0.2 %	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	17.1279 ppm	1.9765 ppm	0.0042 ppm	0.5705 ppm	0.0796 ppm	0.2964 ppm	0.0028 ppm
Concentration per Run 1	17.2270 ppm	1.9721 ppm	0.0039 ppm	0.5698 ppm	0.0805 ppm	0.2977 ppm	0.0037 ppm
Concentration per Run 2	17.1785 ppm	1.9720 ppm	0.0045 ppm	0.5705 ppm	0.0802 ppm	0.2967 ppm	0.0022 ppm
Concentration per Run 3	16.9781 ppm	1.9855 ppm	0.0043 ppm	0.5712 ppm	0.0780 ppm	0.2948 ppm	0.0024 ppm
Concentration RSD	0.8 %	0.4 %	7.8 %	0.1 %	1.7 %	0.5 %	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	-0.0017 ppm	4.5829 ppm	0.0237 ppm	0.0650 ppm	2.6623 ppm	0.0007 ppm	0.1068 ppm
Concentration per Run 1	-0.0016 ppm	4.6412 ppm	0.0233 ppm	0.0648 ppm	2.6779 ppm	0.0004 ppm	0.1075 ppm
Concentration per Run 2	-0.0019 ppm	4.5154 ppm	0.0251 ppm	0.0652 ppm	2.6637 ppm	0.0009 ppm	0.1071 ppm
Concentration per Run 3	-0.0016 ppm	4.5923 ppm	0.0227 ppm	0.0651 ppm	2.6451 ppm	0.0007 ppm	0.1059 ppm
Concentration RSD	9.7 %	1.4 %	5.2 %	0.4 %	0.6 %	43.4 %	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	0.4895 ppm	101.7980 %	103.6332 %	86.7667 %	121.7018 %	127.7127 %	123.5949 %
Concentration per Run 1	0.4931 ppm	101.2736 %	103.7564 %	86.6190 %	121.8712 %	127.7430 %	123.7156 %
Concentration per Run 2	0.4928 ppm	101.6396 %	104.2312 %	86.8756 %	121.6689 %	128.3900 %	123.7673 %
Concentration per Run 3	0.4825 ppm	102.4809 %	102.9119 %	86.8055 %	121.5653 %	127.0050 %	123.3018 %
Concentration RSD	1.2 %	0.6 %	0.6 %	0.2 %	0.1 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474714-06D2 WG2011488
Analysis started at: 12/19/2024 11:21:30 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	0.0039 ppm	60.4045 ppm	0.0406 ppm	0.0273 ppm	0.4527 ppm	0.0026 ppm	22.1927 ppm
Concentration per Run 1	0.0039 ppm	60.8667 ppm	0.0415 ppm	0.0292 ppm	0.4523 ppm	0.0026 ppm	22.3295 ppm
Concentration per Run 2	0.0038 ppm	59.8596 ppm	0.0410 ppm	0.0267 ppm	0.4537 ppm	0.0026 ppm	22.0050 ppm
Concentration per Run 3	0.0039 ppm	60.4871 ppm	0.0393 ppm	0.0260 ppm	0.4522 ppm	0.0026 ppm	22.2438 ppm
Concentration RSD	2.1 %	0.8 %	2.8 %	6.1 %	0.2 %	1.1 %	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	0.0475 ppm	0.0588 ppm	0.1269 ppm	2.6816 ppm	158.6993 ppm	11.0313 ppm	0.1224 ppm
Concentration per Run 1	0.0475 ppm	0.0595 ppm	0.1278 ppm	2.7181 ppm	159.0227 ppm	11.1515 ppm	0.1240 ppm
Concentration per Run 2	0.0475 ppm	0.0589 ppm	0.1264 ppm	2.6609 ppm	157.5422 ppm	10.9147 ppm	0.1211 ppm
Concentration per Run 3	0.0474 ppm	0.0579 ppm	0.1264 ppm	2.6659 ppm	159.5331 ppm	11.0275 ppm	0.1221 ppm
Concentration RSD	0.2 %	1.3 %	0.6 %	1.2 %	0.7 %	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	26.7988 ppm	2.6631 ppm	0.0047 ppm	2.1665 ppm	0.1323 ppm	2.7105 ppm	0.0220 ppm
Concentration per Run 1	26.9997 ppm	2.6716 ppm	0.0046 ppm	2.2006 ppm	0.1325 ppm	2.7200 ppm	0.0226 ppm
Concentration per Run 2	26.6923 ppm	2.6441 ppm	0.0049 ppm	2.1411 ppm	0.1322 ppm	2.7105 ppm	0.0196 ppm
Concentration per Run 3	26.7045 ppm	2.6736 ppm	0.0046 ppm	2.1576 ppm	0.1321 ppm	2.7011 ppm	0.0237 ppm
Concentration RSD	0.6 %	0.6 %	4.2 %	1.4 %	0.2 %	0.3 %	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	4.5085 ppm	0.2085 ppm	0.1154 ppm	3.6270 ppm	0.0004 ppm	0.2071 ppm
Concentration per Run 1	0.0004 ppm	4.5390 ppm	0.2077 ppm	0.1155 ppm	3.6604 ppm	0.0007 ppm	0.2082 ppm
Concentration per Run 2	0.0021 ppm	4.4949 ppm	0.2099 ppm	0.1151 ppm	3.6112 ppm	0.0003 ppm	0.2064 ppm
Concentration per Run 3	-0.0002 ppm	4.4917 ppm	0.2080 ppm	0.1155 ppm	3.6095 ppm	0.0003 ppm	0.2067 ppm
Concentration RSD	165.4 %	0.6 %	0.6 %	0.2 %	0.8 %	57.1 %	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	9.1886 ppm	101.2673 %	105.5119 %	81.9876 %	114.4207 %	123.6828 %	115.5082 %
Concentration per Run 1	9.2564 ppm	100.2637 %	105.3302 %	82.0651 %	114.1311 %	123.7443 %	116.1433 %
Concentration per Run 2	9.1493 ppm	101.7877 %	105.9919 %	81.9436 %	115.1968 %	123.6693 %	114.9771 %
Concentration per Run 3	9.1600 ppm	101.7504 %	105.2137 %	81.9541 %	113.9340 %	123.6348 %	115.4043 %
Concentration RSD	0.6 %	0.9 %	0.4 %	0.1 %	0.6 %	0.0 %	0.5 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474714-07D2 WG2011488
Analysis started at: 12/19/2024 11:25:59 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	0.0018 ppm	49.2496 ppm	0.0391 ppm	0.0049 ppm	0.2444 ppm	0.0038 ppm	12.0057 ppm
Concentration per Run 1	0.0020 ppm	48.9517 ppm	0.0390 ppm	0.0046 ppm	0.2430 ppm	0.0037 ppm	12.0021 ppm
Concentration per Run 2	0.0017 ppm	49.1743 ppm	0.0383 ppm	0.0057 ppm	0.2453 ppm	0.0037 ppm	12.0218 ppm
Concentration per Run 3	0.0019 ppm	49.6228 ppm	0.0400 ppm	0.0044 ppm	0.2449 ppm	0.0039 ppm	11.9932 ppm
Concentration RSD	7.2 %	0.7 %	2.1 %	15.0 %	0.5 %	1.8 %	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	0.0023 ppm	0.0490 ppm	0.1141 ppm	0.2446 ppm	126.2005 ppm	6.1796 ppm	0.0768 ppm
Concentration per Run 1	0.0023 ppm	0.0493 ppm	0.1148 ppm	0.2453 ppm	126.5961 ppm	6.1555 ppm	0.0762 ppm
Concentration per Run 2	0.0021 ppm	0.0488 ppm	0.1144 ppm	0.2454 ppm	127.0847 ppm	6.2240 ppm	0.0771 ppm
Concentration per Run 3	0.0023 ppm	0.0489 ppm	0.1130 ppm	0.2432 ppm	124.9205 ppm	6.1594 ppm	0.0771 ppm
Concentration RSD	4.5 %	0.6 %	0.8 %	0.5 %	0.9 %	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	18.6566 ppm	2.4660 ppm	0.0030 ppm	0.7912 ppm	0.0911 ppm	0.4417 ppm	0.0061 ppm
Concentration per Run 1	18.8151 ppm	2.4746 ppm	0.0031 ppm	0.7845 ppm	0.0920 ppm	0.4429 ppm	0.0070 ppm
Concentration per Run 2	18.5397 ppm	2.4803 ppm	0.0031 ppm	0.7833 ppm	0.0898 ppm	0.4413 ppm	0.0041 ppm
Concentration per Run 3	18.6151 ppm	2.4432 ppm	0.0028 ppm	0.8058 ppm	0.0914 ppm	0.4410 ppm	0.0073 ppm
Concentration RSD	0.8 %	0.8 %	6.6 %	1.6 %	1.3 %	0.2 %	28.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0018 ppm	3.6229 ppm	0.0176 ppm	0.0667 ppm	2.6826 ppm	0.0003 ppm	0.1237 ppm
Concentration per Run 1	-0.0026 ppm	3.6664 ppm	0.0175 ppm	0.0669 ppm	2.7038 ppm	0.0002 ppm	0.1244 ppm
Concentration per Run 2	-0.0013 ppm	3.6148 ppm	0.0171 ppm	0.0668 ppm	2.6761 ppm	-0.0010 ppm	0.1237 ppm
Concentration per Run 3	-0.0015 ppm	3.5874 ppm	0.0184 ppm	0.0665 ppm	2.6678 ppm	0.0017 ppm	0.1230 ppm
Concentration RSD	39.8 %	1.1 %	3.8 %	0.3 %	0.7 %	468.4 %	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	0.5629 ppm	102.4412 %	102.9965 %	85.8767 %	113.3526 %	118.1645 %	115.2237 %
Concentration per Run 1	0.5682 ppm	102.1747 %	103.3022 %	86.0058 %	113.6339 %	118.6982 %	115.5367 %
Concentration per Run 2	0.5598 ppm	102.4449 %	102.7288 %	85.8682 %	113.5984 %	118.3874 %	115.3711 %
Concentration per Run 3	0.5607 ppm	102.7040 %	102.9584 %	85.7562 %	112.8254 %	117.4079 %	114.7634 %
Concentration RSD	0.8 %	0.3 %	0.3 %	0.1 %	0.4 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474714-08D2 WG2011488
Analysis started at: 12/19/2024 11:30:29 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	0.0017 ppm	33.9365 ppm	0.0348 ppm	0.0054 ppm	0.3117 ppm	0.0022 ppm	11.2117 ppm
Concentration per Run 1	0.0017 ppm	33.9180 ppm	0.0343 ppm	0.0046 ppm	0.3115 ppm	0.0022 ppm	11.2789 ppm
Concentration per Run 2	0.0019 ppm	34.1593 ppm	0.0354 ppm	0.0058 ppm	0.3138 ppm	0.0021 ppm	11.1824 ppm
Concentration per Run 3	0.0017 ppm	33.7322 ppm	0.0347 ppm	0.0058 ppm	0.3099 ppm	0.0021 ppm	11.1737 ppm
Concentration RSD	6.4 %	0.6 %	1.7 %	13.0 %	0.6 %	0.6 %	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	0.0017 ppm	0.0336 ppm	0.0576 ppm	0.5158 ppm	94.2828 ppm	5.9961 ppm	0.0527 ppm
Concentration per Run 1	0.0018 ppm	0.0334 ppm	0.0579 ppm	0.5176 ppm	94.8230 ppm	5.9822 ppm	0.0535 ppm
Concentration per Run 2	0.0017 ppm	0.0343 ppm	0.0577 ppm	0.5168 ppm	94.1519 ppm	6.0385 ppm	0.0531 ppm
Concentration per Run 3	0.0016 ppm	0.0330 ppm	0.0571 ppm	0.5128 ppm	93.8735 ppm	5.9676 ppm	0.0514 ppm
Concentration RSD	5.0 %	1.9 %	0.7 %	0.5 %	0.5 %	0.6 %	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	11.4899 ppm	1.7291 ppm	0.0024 ppm	1.5204 ppm	0.0661 ppm	0.8746 ppm	0.0084 ppm
Concentration per Run 1	11.6105 ppm	1.7389 ppm	0.0023 ppm	1.5134 ppm	0.0666 ppm	0.8792 ppm	0.0094 ppm
Concentration per Run 2	11.4765 ppm	1.7264 ppm	0.0024 ppm	1.5399 ppm	0.0664 ppm	0.8712 ppm	0.0079 ppm
Concentration per Run 3	11.3829 ppm	1.7221 ppm	0.0023 ppm	1.5080 ppm	0.0652 ppm	0.8734 ppm	0.0080 ppm
Concentration RSD	1.0 %	0.5 %	3.5 %	1.1 %	1.1 %	0.5 %	10.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	3.8990 ppm	0.0395 ppm	0.0627 ppm	2.2028 ppm	0.0001 ppm	0.0778 ppm
Concentration per Run 1	-0.0005 ppm	3.9478 ppm	0.0395 ppm	0.0628 ppm	2.2130 ppm	0.0002 ppm	0.0784 ppm
Concentration per Run 2	-0.0009 ppm	3.8730 ppm	0.0405 ppm	0.0629 ppm	2.2075 ppm	-0.0006 ppm	0.0778 ppm
Concentration per Run 3	-0.0006 ppm	3.8761 ppm	0.0384 ppm	0.0624 ppm	2.1879 ppm	0.0007 ppm	0.0773 ppm
Concentration RSD	35.3 %	1.1 %	2.7 %	0.4 %	0.6 %	700.4 %	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	0.8694 ppm	101.6325 %	103.8861 %	87.8577 %	114.8571 %	121.0500 %	117.0789 %
Concentration per Run 1	0.8794 ppm	100.9342 %	102.8584 %	87.5515 %	114.8038 %	120.3325 %	116.8260 %
Concentration per Run 2	0.8700 ppm	101.5110 %	104.4094 %	88.4927 %	114.9090 %	121.5182 %	117.8792 %
Concentration per Run 3	0.8587 ppm	102.4522 %	104.3904 %	87.5291 %	114.8585 %	121.2993 %	116.5314 %
Concentration RSD	1.2 %	0.8 %	0.9 %	0.6 %	0.0 %	0.5 %	0.6 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474714-09D2 WG2011488
Analysis started at: 12/19/2024 11:34:58 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	0.0006 ppm	50.9859 ppm	0.0589 ppm	0.0034 ppm	0.3298 ppm	0.0027 ppm	12.7969 ppm
Concentration per Run 1	0.0008 ppm	51.1190 ppm	0.0583 ppm	0.0036 ppm	0.3288 ppm	0.0027 ppm	12.8634 ppm
Concentration per Run 2	0.0005 ppm	50.9126 ppm	0.0590 ppm	0.0035 ppm	0.3302 ppm	0.0027 ppm	12.7491 ppm
Concentration per Run 3	0.0005 ppm	50.9262 ppm	0.0593 ppm	0.0031 ppm	0.3305 ppm	0.0027 ppm	12.7781 ppm
Concentration RSD	25.2 %	0.2 %	0.9 %	7.2 %	0.3 %	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	0.0002 ppm	0.0346 ppm	0.0816 ppm	0.0657 ppm	95.9299 ppm	12.8186 ppm	0.0615 ppm
Concentration per Run 1	0.0002 ppm	0.0343 ppm	0.0821 ppm	0.0662 ppm	95.8918 ppm	12.6950 ppm	0.0619 ppm
Concentration per Run 2	0.0001 ppm	0.0348 ppm	0.0818 ppm	0.0659 ppm	96.0172 ppm	12.9044 ppm	0.0615 ppm
Concentration per Run 3	0.0003 ppm	0.0346 ppm	0.0810 ppm	0.0650 ppm	95.8806 ppm	12.8563 ppm	0.0609 ppm
Concentration RSD	51.1 %	0.7 %	0.7 %	0.9 %	0.1 %	0.9 %	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	21.9268 ppm	1.1528 ppm	0.0001 ppm	1.7829 ppm	0.0684 ppm	0.0965 ppm	0.0002 ppm
Concentration per Run 1	22.1496 ppm	1.1566 ppm	0.0003 ppm	1.7972 ppm	0.0696 ppm	0.0966 ppm	0.0005 ppm
Concentration per Run 2	21.9113 ppm	1.1512 ppm	0.0002 ppm	1.7941 ppm	0.0673 ppm	0.0976 ppm	-0.0009 ppm
Concentration per Run 3	21.7196 ppm	1.1507 ppm	-0.0001 ppm	1.7574 ppm	0.0684 ppm	0.0954 ppm	0.0012 ppm
Concentration RSD	1.0 %	0.3 %	139.6 %	1.2 %	1.7 %	1.1 %	436.7 %

	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	6.8186 ppm	0.0029 ppm	0.0713 ppm	3.6134 ppm	0.0022 ppm	0.1118 ppm
Concentration per Run 1	0.0002 ppm	6.8881 ppm	0.0032 ppm	0.0713 ppm	3.6367 ppm	0.0029 ppm	0.1126 ppm
Concentration per Run 2	-0.0024 ppm	6.8718 ppm	0.0030 ppm	0.0714 ppm	3.6151 ppm	0.0013 ppm	0.1118 ppm
Concentration per Run 3	-0.0012 ppm	6.6958 ppm	0.0025 ppm	0.0713 ppm	3.5885 ppm	0.0024 ppm	0.1109 ppm
Concentration RSD	111.4 %	1.6 %	13.4 %	0.1 %	0.7 %	36.1 %	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	0.2297 ppm	101.4905 %	103.5786 %	84.5047 %	118.0750 %	124.0991 %	121.4039 %
Concentration per Run 1	0.2316 ppm	100.7723 %	103.4170 %	84.4282 %	117.7435 %	123.9174 %	121.4967 %
Concentration per Run 2	0.2290 ppm	101.2690 %	104.0334 %	84.3197 %	117.6923 %	124.5897 %	121.2732 %
Concentration per Run 3	0.2286 ppm	102.4304 %	103.2855 %	84.7660 %	118.7891 %	123.7902 %	121.4419 %
Concentration RSD	0.7 %	0.8 %	0.4 %	0.3 %	0.5 %	0.3 %	0.1 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474714-10D2 WG2011488
Analysis started at: 12/19/2024 11:39:27 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	0.0049 ppm	68.9129 ppm	0.0602 ppm	0.0056 ppm	0.4958 ppm	0.0055 ppm	12.8781 ppm
Concentration per Run 1	0.0052 ppm	69.1530 ppm	0.0607 ppm	0.0061 ppm	0.5029 ppm	0.0056 ppm	12.9246 ppm
Concentration per Run 2	0.0046 ppm	69.0006 ppm	0.0609 ppm	0.0061 ppm	0.4928 ppm	0.0055 ppm	12.7976 ppm
Concentration per Run 3	0.0047 ppm	68.5851 ppm	0.0589 ppm	0.0047 ppm	0.4916 ppm	0.0055 ppm	12.9121 ppm
Concentration RSD	6.7 %	0.4 %	1.8 %	14.3 %	1.3 %	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	0.0046 ppm	0.0773 ppm	0.1299 ppm	0.6000 ppm	164.0241 ppm	7.1732 ppm	0.1457 ppm
Concentration per Run 1	0.0047 ppm	0.0776 ppm	0.1313 ppm	0.6031 ppm	164.4482 ppm	7.1829 ppm	0.1469 ppm
Concentration per Run 2	0.0045 ppm	0.0772 ppm	0.1294 ppm	0.6009 ppm	162.9807 ppm	7.2512 ppm	0.1468 ppm
Concentration per Run 3	0.0046 ppm	0.0770 ppm	0.1290 ppm	0.5959 ppm	164.6434 ppm	7.0854 ppm	0.1434 ppm
Concentration RSD	1.5 %	0.4 %	0.9 %	0.6 %	0.6 %	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	26.6362 ppm	3.1811 ppm	0.0037 ppm	1.1698 ppm	0.1652 ppm	0.9463 ppm	0.0095 ppm
Concentration per Run 1	26.9429 ppm	3.1885 ppm	0.0040 ppm	1.1743 ppm	0.1676 ppm	0.9517 ppm	0.0110 ppm
Concentration per Run 2	26.5554 ppm	3.1700 ppm	0.0038 ppm	1.1744 ppm	0.1642 ppm	0.9454 ppm	0.0085 ppm
Concentration per Run 3	26.4104 ppm	3.1847 ppm	0.0034 ppm	1.1606 ppm	0.1638 ppm	0.9418 ppm	0.0089 ppm
Concentration RSD	1.0 %	0.3 %	7.2 %	0.7 %	1.2 %	0.5 %	14.0 %

	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	-0.0010 ppm	4.2372 ppm	0.0571 ppm	0.0688 ppm	2.4207 ppm	-0.0004 ppm	0.1670 ppm
Concentration per Run 1	0.0012 ppm	4.2383 ppm	0.0587 ppm	0.0693 ppm	2.4392 ppm	-0.0010 ppm	0.1678 ppm
Concentration per Run 2	-0.0019 ppm	4.2144 ppm	0.0562 ppm	0.0682 ppm	2.4197 ppm	0.0005 ppm	0.1674 ppm
Concentration per Run 3	-0.0022 ppm	4.2587 ppm	0.0565 ppm	0.0688 ppm	2.4031 ppm	-0.0006 ppm	0.1657 ppm
Concentration RSD	195.9 %	0.5 %	2.4 %	0.8 %	0.7 %	213.6 %	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	1.2400 ppm	101.8760 %	103.4467 %	84.9679 %	116.1313 %	122.4912 %	119.0999 %
Concentration per Run 1	1.2610 ppm	101.1845 %	103.0354 %	85.2997 %	115.8120 %	122.0952 %	119.5457 %
Concentration per Run 2	1.2310 ppm	102.2368 %	104.2481 %	84.7573 %	116.5804 %	122.9991 %	119.2787 %
Concentration per Run 3	1.2280 ppm	102.2068 %	103.0566 %	84.8466 %	116.0014 %	122.3793 %	118.4754 %
Concentration RSD	1.5 %	0.6 %	0.7 %	0.3 %	0.3 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: L2474714-11D2 WG2011488
Analysis started at: 12/19/2024 11:43:57 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	0.0020 ppm	46.5794 ppm	0.5205 ppm	0.0051 ppm	0.3462 ppm	0.0029 ppm	14.0944 ppm
Concentration per Run 1	0.0018 ppm	46.6279 ppm	0.5244 ppm	0.0061 ppm	0.3462 ppm	0.0029 ppm	14.1373 ppm
Concentration per Run 2	0.0020 ppm	46.4488 ppm	0.5169 ppm	0.0042 ppm	0.3460 ppm	0.0029 ppm	14.0475 ppm
Concentration per Run 3	0.0021 ppm	46.6616 ppm	0.5202 ppm	0.0051 ppm	0.3464 ppm	0.0029 ppm	14.0984 ppm
Concentration RSD	8.5 %	0.2 %	0.7 %	18.2 %	0.1 %	1.2 %	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	0.0044 ppm	0.0366 ppm	0.0713 ppm	0.5465 ppm	112.0975 ppm	8.4004 ppm	0.0676 ppm
Concentration per Run 1	0.0044 ppm	0.0372 ppm	0.0722 ppm	0.5494 ppm	112.3170 ppm	8.3799 ppm	0.0684 ppm
Concentration per Run 2	0.0043 ppm	0.0364 ppm	0.0709 ppm	0.5463 ppm	111.9882 ppm	8.3314 ppm	0.0664 ppm
Concentration per Run 3	0.0045 ppm	0.0363 ppm	0.0709 ppm	0.5437 ppm	111.9872 ppm	8.4898 ppm	0.0682 ppm
Concentration RSD	2.2 %	1.3 %	1.0 %	0.5 %	0.2 %	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	15.6101 ppm	1.9443 ppm	0.0033 ppm	0.8829 ppm	0.0723 ppm	3.4267 ppm	0.0095 ppm
Concentration per Run 1	15.7870 ppm	1.9483 ppm	0.0033 ppm	0.8862 ppm	0.0725 ppm	3.4451 ppm	0.0109 ppm
Concentration per Run 2	15.5321 ppm	1.9427 ppm	0.0034 ppm	0.8675 ppm	0.0721 ppm	3.4155 ppm	0.0097 ppm
Concentration per Run 3	15.5111 ppm	1.9419 ppm	0.0031 ppm	0.8950 ppm	0.0723 ppm	3.4194 ppm	0.0079 ppm
Concentration RSD	1.0 %	0.2 %	5.3 %	1.6 %	0.3 %	0.5 %	15.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	4.3275 ppm	0.1885 ppm	0.0884 ppm	2.8565 ppm	0.0003 ppm	0.0975 ppm
Concentration per Run 1	-0.0012 ppm	4.4648 ppm	0.1897 ppm	0.0884 ppm	2.8827 ppm	-0.0005 ppm	0.0984 ppm
Concentration per Run 2	-0.0003 ppm	4.3390 ppm	0.1886 ppm	0.0882 ppm	2.8405 ppm	0.0009 ppm	0.0975 ppm
Concentration per Run 3	0.0008 ppm	4.1786 ppm	0.1872 ppm	0.0886 ppm	2.8464 ppm	0.0004 ppm	0.0966 ppm
Concentration RSD	463.6 %	3.3 %	0.7 %	0.2 %	0.8 %	279.8 %	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	1.8511 ppm	101.4992 %	103.7517 %	85.4980 %	118.2170 %	125.3017 %	120.7835 %
Concentration per Run 1	1.8657 ppm	100.1110 %	103.3941 %	85.1053 %	117.4511 %	124.9874 %	120.7559 %
Concentration per Run 2	1.8571 ppm	101.9634 %	104.0386 %	85.8576 %	118.4107 %	125.3543 %	121.2469 %
Concentration per Run 3	1.8303 ppm	102.4230 %	103.8224 %	85.5312 %	118.7892 %	125.5634 %	120.3478 %
Concentration RSD	1.0 %	1.2 %	0.3 %	0.4 %	0.6 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: CCV
Analysis started at: 12/19/2024 11:48:26 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	0.4778 ppm	0.4670 ppm	0.4525 ppm	0.4826 ppm	0.4700 ppm	0.4988 ppm	0.4949 ppm
Concentration per Run 1	0.4829 ppm	0.4662 ppm	0.4521 ppm	0.4884 ppm	0.4698 ppm	0.4984 ppm	0.4946 ppm
Concentration per Run 2	0.4734 ppm	0.4650 ppm	0.4533 ppm	0.4786 ppm	0.4717 ppm	0.4974 ppm	0.4938 ppm
Concentration per Run 3	0.4770 ppm	0.4699 ppm	0.4522 ppm	0.4807 ppm	0.4685 ppm	0.5005 ppm	0.4964 ppm
Recovery Percentage 1	95.556 %	93.409 %	90.506 %	96.511 %	94.000 %	99.756 %	98.984 %
Concentration RSD	1.0 %	0.6 %	0.2 %	1.1 %	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	0.4955 ppm	0.5062 ppm	0.4899 ppm	0.4775 ppm	0.5169 ppm	4.9071 ppm	0.4623 ppm
Concentration per Run 1	0.5023 ppm	0.5121 ppm	0.4965 ppm	0.4818 ppm	0.5198 ppm	4.8547 ppm	0.4570 ppm
Concentration per Run 2	0.4906 ppm	0.5019 ppm	0.4847 ppm	0.4749 ppm	0.5134 ppm	4.9368 ppm	0.4668 ppm
Concentration per Run 3	0.4937 ppm	0.5045 ppm	0.4887 ppm	0.4760 ppm	0.5176 ppm	4.9298 ppm	0.4630 ppm
Recovery Percentage 1	99.105 %	101.231 %	97.986 %	95.508 %	103.385 %	98.142 %	92.456 %
Concentration RSD	1.2 %	1.0 %	1.2 %	0.8 %	0.6 %	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	0.4998 ppm	0.4876 ppm	0.4862 ppm	9.4180 ppm	0.5068 ppm	0.4732 ppm	0.4918 ppm
Concentration per Run 1	0.5059 ppm	0.4883 ppm	0.4869 ppm	9.3015 ppm	0.5131 ppm	0.4744 ppm	0.4951 ppm
Concentration per Run 2	0.4925 ppm	0.4849 ppm	0.4817 ppm	9.4637 ppm	0.5008 ppm	0.4731 ppm	0.4909 ppm
Concentration per Run 3	0.5011 ppm	0.4897 ppm	0.4901 ppm	9.4889 ppm	0.5066 ppm	0.4720 ppm	0.4893 ppm
Recovery Percentage 1	99.964 %	97.526 %	97.245 %	94.180 %	101.368 %	94.631 %	98.350 %
Concentration RSD	1.4 %	0.5 %	0.9 %	1.1 %	1.2 %	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	0.4607 ppm	5.3666 ppm	0.5100 ppm	0.5042 ppm	0.4906 ppm	0.4612 ppm	0.4872 ppm
Concentration per Run 1	0.4620 ppm	5.4103 ppm	0.5177 ppm	0.5040 ppm	0.4964 ppm	0.4613 ppm	0.4926 ppm
Concentration per Run 2	0.4630 ppm	5.3130 ppm	0.5021 ppm	0.5051 ppm	0.4850 ppm	0.4615 ppm	0.4835 ppm
Concentration per Run 3	0.4569 ppm	5.3764 ppm	0.5103 ppm	0.5033 ppm	0.4903 ppm	0.4607 ppm	0.4856 ppm
Recovery Percentage 1	92.130 %	102.220 %	102.006 %	100.835 %	98.119 %	92.232 %	97.447 %
Concentration RSD	0.7 %	0.9 %	1.5 %	0.2 %	1.2 %	0.1 %	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	0.5008 ppm	100.8391 %	101.4446 %	95.8148 %	97.2913 %	100.0962 %	100.0179 %
Concentration per Run 1	0.5096 ppm	99.7738 %	101.3926 %	96.0695 %	96.9001 %	100.0715 %	100.3480 %
Concentration per Run 2	0.4932 ppm	101.4704 %	102.1081 %	96.0478 %	97.8380 %	100.5761 %	100.1884 %
Concentration per Run 3	0.4995 ppm	101.2732 %	100.8330 %	95.3270 %	97.1359 %	99.6411 %	99.5174 %
Recovery Percentage 1	100.156 %						
Concentration RSD	1.6 %	0.9 %	0.6 %	0.4 %	0.5 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: CCB
Analysis started at: 12/19/2024 11:52:54 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	0.0005 ppm	0.0013 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0038 ppm
Concentration per Run 1	0.0001 ppm	0.0015 ppm	0.0006 ppm	0.0020 ppm	0.0000 ppm	0.0001 ppm	0.0046 ppm
Concentration per Run 2	0.0001 ppm	-0.0006 ppm	0.0012 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0037 ppm
Concentration per Run 3	-0.0001 ppm	0.0006 ppm	0.0021 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0031 ppm
Recovery Percentage 1	0.806 %	0.479 %	25.603 %	3.484 %	0.029 %	0.829 %	3.790 %
Concentration RSD	304.1 %	220.6 %	60.3 %	77.4 %	1,334.8 %	60.7 %	20.5 %

	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	0.0001 ppm	-0.0003 ppm	0.0044 ppm	-0.0026 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0005 ppm	0.0000 ppm	-0.0004 ppm	0.0047 ppm	-0.0018 ppm	0.0002 ppm
Concentration per Run 2	-0.0001 ppm	-0.0001 ppm	0.0004 ppm	-0.0001 ppm	0.0045 ppm	-0.0027 ppm	0.0008 ppm
Concentration per Run 3	0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0041 ppm	-0.0033 ppm	0.0003 ppm
Recovery Percentage 1	1.754 %	1.380 %	0.968 %	-2.643 %	8.831 %	-0.104 %	4.445 %
Concentration RSD	209.0 %	245.7 %	262.0 %	61.2 %	7.4 %	29.3 %	66.9 %

	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	-0.0009 ppm	0.0000 ppm	0.0015 ppm	-0.0073 ppm	0.0002 ppm	-0.0002 ppm	0.0017 ppm
Concentration per Run 1	-0.0010 ppm	0.0000 ppm	0.0016 ppm	-0.0063 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm
Concentration per Run 2	0.0003 ppm	0.0000 ppm	0.0015 ppm	-0.0072 ppm	0.0002 ppm	0.0000 ppm	0.0024 ppm
Concentration per Run 3	-0.0018 ppm	0.0001 ppm	0.0014 ppm	-0.0085 ppm	0.0005 ppm	-0.0008 ppm	0.0023 ppm
Recovery Percentage 1	-0.851 %	0.396 %	2.989 %	-0.366 %	0.964 %	-2.329 %	3.442 %
Concentration RSD	124.0 %	219.3 %	4.9 %	14.9 %	106.8 %	193.3 %	61.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	0.0012 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 1	-0.0005 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 2	-0.0002 ppm	0.0001 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 3	-0.0013 ppm	0.0035 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	-0.0005 ppm	0.0001 ppm
Recovery Percentage 1	-6.625 %	0.242 %	0.764 %	0.663 %	0.118 %	-2.289 %	0.330 %
Concentration RSD	79.5 %	163.5 %	130.7 %	1.2 %	321.6 %	70.5 %	326.9 %

	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	0.0004 ppm	99.4651 %	100.8171 %	97.0953 %	99.5967 %	101.2611 %	101.7486 %
Concentration per Run 1	0.0005 ppm	98.2862 %	100.0560 %	97.0940 %	99.1299 %	100.6818 %	102.4444 %
Concentration per Run 2	0.0004 ppm	99.8081 %	100.8184 %	96.3888 %	99.9143 %	100.9593 %	100.6182 %
Concentration per Run 3	0.0002 ppm	100.3009 %	101.5769 %	97.8030 %	99.7460 %	102.1421 %	102.1834 %
Recovery Percentage 1	7.640 %						
Concentration RSD	45.3 %	1.1 %	0.8 %	0.7 %	0.4 %	0.8 %	1.0 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: CCV
Analysis started at: 12/19/2024 11:57:22 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	0.4772 ppm	0.4637 ppm	0.4551 ppm	0.4804 ppm	0.4693 ppm	0.4969 ppm	0.4885 ppm
Concentration per Run 1	0.4808 ppm	0.4677 ppm	0.4569 ppm	0.4842 ppm	0.4717 ppm	0.4973 ppm	0.4886 ppm
Concentration per Run 2	0.4789 ppm	0.4586 ppm	0.4534 ppm	0.4811 ppm	0.4698 ppm	0.4972 ppm	0.4882 ppm
Concentration per Run 3	0.4720 ppm	0.4648 ppm	0.4549 ppm	0.4758 ppm	0.4664 ppm	0.4962 ppm	0.4887 ppm
Recovery Percentage 1	95.444 %	92.746 %	91.015 %	96.074 %	93.861 %	99.382 %	97.701 %
Concentration RSD	1.0 %	1.0 %	0.4 %	0.9 %	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	0.4932 ppm	0.5050 ppm	0.4889 ppm	0.4762 ppm	0.5023 ppm	4.9105 ppm	0.4632 ppm
Concentration per Run 1	0.4979 ppm	0.5079 ppm	0.4916 ppm	0.4791 ppm	0.5013 ppm	4.9430 ppm	0.4668 ppm
Concentration per Run 2	0.4981 ppm	0.5075 ppm	0.4934 ppm	0.4757 ppm	0.5007 ppm	4.8775 ppm	0.4568 ppm
Concentration per Run 3	0.4837 ppm	0.4997 ppm	0.4818 ppm	0.4737 ppm	0.5048 ppm	4.9110 ppm	0.4659 ppm
Recovery Percentage 1	98.648 %	101.001 %	97.782 %	95.234 %	100.455 %	98.210 %	92.630 %
Concentration RSD	1.7 %	0.9 %	1.3 %	0.6 %	0.4 %	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	0.4954 ppm	0.4860 ppm	0.4865 ppm	9.3824 ppm	0.5045 ppm	0.4730 ppm	0.4902 ppm
Concentration per Run 1	0.4979 ppm	0.4861 ppm	0.4869 ppm	9.4277 ppm	0.5072 ppm	0.4757 ppm	0.4925 ppm
Concentration per Run 2	0.4996 ppm	0.4869 ppm	0.4899 ppm	9.3492 ppm	0.5086 ppm	0.4711 ppm	0.4917 ppm
Concentration per Run 3	0.4888 ppm	0.4851 ppm	0.4827 ppm	9.3703 ppm	0.4979 ppm	0.4721 ppm	0.4864 ppm
Recovery Percentage 1	99.086 %	97.205 %	97.301 %	93.824 %	100.909 %	94.594 %	98.046 %
Concentration RSD	1.2 %	0.2 %	0.7 %	0.4 %	1.2 %	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	0.4619 ppm	5.3455 ppm	0.5097 ppm	0.5018 ppm	0.4886 ppm	0.4627 ppm	0.4865 ppm
Concentration per Run 1	0.4604 ppm	5.3618 ppm	0.5132 ppm	0.5046 ppm	0.4914 ppm	0.4649 ppm	0.4897 ppm
Concentration per Run 2	0.4637 ppm	5.3759 ppm	0.5131 ppm	0.5020 ppm	0.4921 ppm	0.4593 ppm	0.4889 ppm
Concentration per Run 3	0.4617 ppm	5.2988 ppm	0.5029 ppm	0.4989 ppm	0.4824 ppm	0.4640 ppm	0.4809 ppm
Recovery Percentage 1	92.385 %	101.818 %	101.946 %	100.368 %	97.725 %	92.550 %	97.306 %
Concentration RSD	0.4 %	0.8 %	1.2 %	0.6 %	1.1 %	0.6 %	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	0.4988 ppm	101.0379 %	101.9008 %	95.6447 %	97.5393 %	100.5096 %	99.9539 %
Concentration per Run 1	0.5022 ppm	100.4418 %	102.2239 %	95.1039 %	97.6445 %	101.0941 %	100.0004 %
Concentration per Run 2	0.5061 ppm	100.4839 %	101.4778 %	96.2092 %	96.6602 %	99.8127 %	100.3654 %
Concentration per Run 3	0.4880 ppm	102.1881 %	102.0008 %	95.6211 %	98.3132 %	100.6220 %	99.4957 %
Recovery Percentage 1	99.759 %						
Concentration RSD	1.9 %	1.0 %	0.4 %	0.6 %	0.9 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: CCB
Analysis started at: 12/20/2024 12:01:50 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	0.0013 ppm	0.0014 ppm	0.0001 ppm	0.0000 ppm	0.0033 ppm
Concentration per Run 1	0.0002 ppm	0.0012 ppm	0.0009 ppm	0.0013 ppm	0.0000 ppm	0.0001 ppm	0.0035 ppm
Concentration per Run 2	0.0000 ppm	-0.0012 ppm	0.0022 ppm	0.0016 ppm	0.0000 ppm	0.0000 ppm	0.0019 ppm
Concentration per Run 3	0.0000 ppm	0.0046 ppm	0.0009 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	0.0046 ppm
Recovery Percentage 1	1.585 %	1.505 %	26.986 %	4.611 %	0.561 %	0.919 %	3.312 %
Concentration RSD	182.3 %	193.5 %	55.8 %	16.6 %	65.1 %	18.4 %	40.9 %

	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	0.0000 ppm	0.0000 ppm	0.0035 ppm	-0.0016 ppm	0.0002 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	0.0048 ppm	-0.0021 ppm	0.0000 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0026 ppm	0.0076 ppm	0.0002 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0031 ppm	-0.0105 ppm	0.0003 ppm
Recovery Percentage 1	1.094 %	1.796 %	-0.137 %	0.470 %	6.943 %	-0.066 %	1.735 %
Concentration RSD	187.2 %	39.4 %	903.7 %	261.1 %	33.6 %	548.4 %	104.7 %

	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	0.0002 ppm	0.0000 ppm	0.0018 ppm	-0.0077 ppm	0.0003 ppm	-0.0006 ppm	0.0026 ppm
Concentration per Run 1	0.0003 ppm	0.0001 ppm	0.0022 ppm	-0.0064 ppm	0.0003 ppm	-0.0007 ppm	0.0015 ppm
Concentration per Run 2	-0.0002 ppm	0.0000 ppm	0.0015 ppm	-0.0091 ppm	0.0001 ppm	-0.0003 ppm	0.0022 ppm
Concentration per Run 3	0.0005 ppm	-0.0001 ppm	0.0019 ppm	-0.0074 ppm	0.0005 ppm	-0.0008 ppm	0.0040 ppm
Recovery Percentage 1	0.205 %	-0.260 %	3.676 %	-0.383 %	1.110 %	-5.947 %	5.112 %
Concentration RSD	184.0 %	336.5 %	19.5 %	17.6 %	72.0 %	42.8 %	51.2 %

	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	-0.0001 ppm	-0.0002 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 1	0.0004 ppm	-0.0001 ppm	-0.0010 ppm	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 2	-0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 3	-0.0006 ppm	-0.0004 ppm	0.0003 ppm	0.0000 ppm	0.0002 ppm	-0.0007 ppm	0.0001 ppm
Recovery Percentage 1	-0.732 %	-0.041 %	-0.627 %	0.571 %	0.209 %	-1.095 %	0.404 %
Concentration RSD	684.6 %	95.1 %	219.6 %	58.3 %	679.7 %	223.1 %	195.2 %

	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	0.0005 ppm	99.0924 %	101.0298 %	97.1248 %	99.5382 %	101.3235 %	101.6439 %
Concentration per Run 1	0.0007 ppm	97.9810 %	101.0877 %	97.0469 %	99.6099 %	101.4199 %	101.6730 %
Concentration per Run 2	0.0002 ppm	99.2921 %	100.9511 %	96.8223 %	99.6575 %	101.4176 %	101.8142 %
Concentration per Run 3	0.0005 ppm	100.0040 %	101.0507 %	97.5053 %	99.3472 %	101.1329 %	101.4444 %
Recovery Percentage 1	9.208 %						
Concentration RSD	56.1 %	1.0 %	0.1 %	0.4 %	0.2 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

12/20/2024 9:52:18 AM

LabBook: WG2011105_12192024T8.imexp

Sample: LLOQ
Analysis started at: 12/20/2024 12:06:18 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	0.1057 ppm	0.0053 ppm	0.0327 ppm	0.0105 ppm	0.0055 ppm	0.1180 ppm
Concentration per Run 1	0.0055 ppm	0.1065 ppm	0.0049 ppm	0.0333 ppm	0.0106 ppm	0.0055 ppm	0.1196 ppm
Concentration per Run 2	0.0055 ppm	0.1055 ppm	0.0053 ppm	0.0326 ppm	0.0104 ppm	0.0055 ppm	0.1157 ppm
Concentration per Run 3	0.0055 ppm	0.1051 ppm	0.0058 ppm	0.0321 ppm	0.0105 ppm	0.0055 ppm	0.1186 ppm
Recovery Percentage 1	109.795 %	105.725 %	106.786 %	108.968 %	104.669 %	109.561 %	117.977 %
Concentration RSD	0.1 %	0.7 %	7.9 %	1.8 %	0.9 %	0.4 %	1.7 %

	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	0.0045 ppm	0.0116 ppm	0.0107 ppm	0.0109 ppm	0.1052 ppm	2.7023 ppm	0.0109 ppm
Concentration per Run 1	0.0045 ppm	0.0115 ppm	0.0109 ppm	0.0108 ppm	0.1060 ppm	2.7151 ppm	0.0113 ppm
Concentration per Run 2	0.0045 ppm	0.0117 ppm	0.0107 ppm	0.0108 ppm	0.1048 ppm	2.6802 ppm	0.0107 ppm
Concentration per Run 3	0.0045 ppm	0.0117 ppm	0.0105 ppm	0.0110 ppm	0.1049 ppm	2.7116 ppm	0.0108 ppm
Recovery Percentage 1	111.980 %	115.987 %	106.914 %	108.702 %	210.451 %	108.093 %	108.911 %
Concentration RSD	0.4 %	0.9 %	1.8 %	1.2 %	0.6 %	0.7 %	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	0.1145 ppm	0.0113 ppm	0.0562 ppm	2.0770 ppm	0.0223 ppm	0.0097 ppm	0.0563 ppm
Concentration per Run 1	0.1147 ppm	0.0114 ppm	0.0568 ppm	2.0739 ppm	0.0225 ppm	0.0097 ppm	0.0574 ppm
Concentration per Run 2	0.1146 ppm	0.0110 ppm	0.0557 ppm	2.0778 ppm	0.0226 ppm	0.0100 ppm	0.0550 ppm
Concentration per Run 3	0.1142 ppm	0.0114 ppm	0.0560 ppm	2.0793 ppm	0.0217 ppm	0.0095 ppm	0.0565 ppm
Recovery Percentage 1	114.485 %	112.842 %	112.357 %	103.849 %	89.013 %	97.446 %	112.669 %
Concentration RSD	0.2 %	2.0 %	1.0 %	0.1 %	2.0 %	2.5 %	2.1 %

	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	0.0091 ppm	0.5385 ppm	0.0561 ppm	0.0107 ppm	0.0107 ppm	0.0198 ppm	0.0106 ppm
Concentration per Run 1	0.0094 ppm	0.5454 ppm	0.0570 ppm	0.0108 ppm	0.0109 ppm	0.0205 ppm	0.0107 ppm
Concentration per Run 2	0.0081 ppm	0.5377 ppm	0.0555 ppm	0.0106 ppm	0.0109 ppm	0.0198 ppm	0.0105 ppm
Concentration per Run 3	0.0099 ppm	0.5323 ppm	0.0557 ppm	0.0106 ppm	0.0105 ppm	0.0192 ppm	0.0106 ppm
Recovery Percentage 1	91.278 %	107.700 %	112.140 %	106.710 %	107.485 %	99.142 %	106.237 %
Concentration RSD	10.1 %	1.2 %	1.5 %	0.7 %	2.1 %	3.3 %	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	0.0086 ppm	101.0070 %	100.9665 %	97.7612 %	99.3547 %	100.1809 %	100.9757 %
Concentration per Run 1	0.0088 ppm	100.0624 %	100.2379 %	96.7863 %	98.8702 %	99.9622 %	100.5144 %
Concentration per Run 2	0.0087 ppm	101.3443 %	101.6288 %	98.0591 %	100.0703 %	100.4439 %	101.1315 %
Concentration per Run 3	0.0085 ppm	101.6144 %	101.0328 %	98.4382 %	99.1237 %	100.1367 %	101.2810 %
Recovery Percentage 1	172.693 %						
Concentration RSD	1.9 %	0.8 %	0.7 %	0.9 %	0.6 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: Blank DMC Trace8
Analysis started at: 12/20/2024 9:17:58 AM
Rack 0
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	1.0 %	-0.3 %	-0.2 %	0.4 %	-5.9 %	-0.2 %	-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	0.0000 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	-0.5 %	0.1 %	-0.2 %	0.0 %	-2.0 %	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	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	-0.5 %	-0.4 %	0.4 %	0.1 %	1.0 %	0.9 %	8.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.4 %	0.2 %	2.6 %	1.9 %	-0.4 %	-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	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	0.4 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: ICAL
Analysis started at: 12/20/2024 9:22:15 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	1.0076 ppm	25.2442 ppm	1.0083 ppm	1.0034 ppm	1.0056 ppm	0.9915 ppm	10.0317 ppm
Concentration per Run 2	1.0062 ppm	24.6499 ppm	1.0001 ppm	1.0060 ppm	0.9889 ppm	1.0031 ppm	9.9425 ppm
Concentration per Run 3	0.9862 ppm	25.1060 ppm	0.9916 ppm	0.9906 ppm	1.0055 ppm	1.0055 ppm	10.0257 ppm
Concentration RSD	1.2 %	1.2 %	0.8 %	0.8 %	1.0 %	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	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	1.0030 ppm	1.0040 ppm	1.0025 ppm	1.0055 ppm	24.6186 ppm	34.9019 ppm	1.0155 ppm
Concentration per Run 2	1.0048 ppm	1.0055 ppm	1.0067 ppm	1.0064 ppm	25.1430 ppm	34.5702 ppm	0.9816 ppm
Concentration per Run 3	0.9923 ppm	0.9904 ppm	0.9908 ppm	0.9881 ppm	25.2384 ppm	35.5280 ppm	1.0029 ppm
Concentration RSD	0.7 %	0.8 %	0.8 %	1.0 %	1.3 %	1.4 %	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	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	10.0525 ppm	0.9933 ppm	0.9884 ppm	25.6095 ppm	1.0048 ppm	1.0029 ppm	1.0001 ppm
Concentration per Run 2	10.0607 ppm	1.0038 ppm	1.0099 ppm	24.2706 ppm	1.0047 ppm	1.0010 ppm	1.0105 ppm
Concentration per Run 3	9.8868 ppm	1.0029 ppm	1.0018 ppm	25.1199 ppm	0.9905 ppm	0.9961 ppm	0.9894 ppm
Concentration RSD	1.0 %	0.6 %	1.1 %	2.7 %	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	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0023 ppm	10.0543 ppm	1.0030 ppm	0.9974 ppm	1.0055 ppm	1.0014 ppm	1.0024 ppm
Concentration per Run 2	1.0000 ppm	10.0693 ppm	1.0029 ppm	0.9938 ppm	1.0055 ppm	1.0001 ppm	1.0046 ppm
Concentration per Run 3	0.9977 ppm	9.8764 ppm	0.9941 ppm	1.0087 ppm	0.9891 ppm	0.9985 ppm	0.9930 ppm
Concentration RSD	0.2 %	1.1 %	0.5 %	0.8 %	0.9 %	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	1.0000 ppm	103.8647 %	103.6338 %	90.4001 %	89.2414 %	97.3740 %	91.3714 %
Concentration per Run 1	1.0018 ppm	103.7006 %	103.8901 %	90.6127 %	89.6251 %	97.1694 %	91.6032 %
Concentration per Run 2	1.0054 ppm	103.3620 %	103.5780 %	90.1180 %	88.6939 %	97.5028 %	91.1476 %
Concentration per Run 3	0.9928 ppm	104.5314 %	103.4335 %	90.4697 %	89.4052 %	97.4497 %	91.3633 %
Concentration RSD	0.6 %	0.6 %	0.2 %	0.3 %	0.5 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: ICV
Analysis started at: 12/20/2024 9:26:38 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	0.4893 ppm	0.4716 ppm	0.4685 ppm	0.4950 ppm	0.4823 ppm	0.5000 ppm	0.4936 ppm
Concentration per Run 1	0.4929 ppm	0.4694 ppm	0.4704 ppm	0.4975 ppm	0.4851 ppm	0.5003 ppm	0.4935 ppm
Concentration per Run 2	0.4901 ppm	0.4715 ppm	0.4686 ppm	0.4983 ppm	0.4783 ppm	0.4998 ppm	0.4931 ppm
Concentration per Run 3	0.4850 ppm	0.4740 ppm	0.4664 ppm	0.4893 ppm	0.4835 ppm	0.4999 ppm	0.4940 ppm
Recovery Percentage 1	97.867 %	94.325 %	93.691 %	99.009 %	96.460 %	100.001 %	98.713 %
Concentration RSD	0.8 %	0.5 %	0.4 %	1.0 %	0.7 %	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	0.4996 ppm	0.5120 ppm	0.4953 ppm	0.4908 ppm	0.5108 ppm	5.0412 ppm	0.4773 ppm
Concentration per Run 1	0.5018 ppm	0.5152 ppm	0.4991 ppm	0.4930 ppm	0.5125 ppm	5.0497 ppm	0.4788 ppm
Concentration per Run 2	0.5010 ppm	0.5138 ppm	0.4951 ppm	0.4943 ppm	0.5115 ppm	5.0528 ppm	0.4766 ppm
Concentration per Run 3	0.4961 ppm	0.5071 ppm	0.4916 ppm	0.4852 ppm	0.5083 ppm	5.0212 ppm	0.4766 ppm
Recovery Percentage 1	99.924 %	102.405 %	99.057 %	98.168 %	102.152 %	100.825 %	95.466 %
Concentration RSD	0.6 %	0.9 %	0.8 %	1.0 %	0.4 %	0.3 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5044 ppm	0.4842 ppm	0.5149 ppm	9.6037 ppm	0.5130 ppm	0.4848 ppm	0.5043 ppm
Concentration per Run 1	0.5082 ppm	0.4833 ppm	0.5131 ppm	9.5587 ppm	0.5180 ppm	0.4871 ppm	0.5056 ppm
Concentration per Run 2	0.5042 ppm	0.4840 ppm	0.5168 ppm	9.6102 ppm	0.5135 ppm	0.4798 ppm	0.5055 ppm
Concentration per Run 3	0.5009 ppm	0.4855 ppm	0.5146 ppm	9.6423 ppm	0.5076 ppm	0.4875 ppm	0.5018 ppm
Recovery Percentage 1	100.887 %	96.849 %	102.974 %	96.037 %	102.606 %	96.968 %	100.857 %
Concentration RSD	0.7 %	0.2 %	0.4 %	0.4 %	1.0 %	0.9 %	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	0.4625 ppm	5.5619 ppm	0.5216 ppm	0.5114 ppm	0.4968 ppm	0.4874 ppm	0.4907 ppm
Concentration per Run 1	0.4618 ppm	5.5838 ppm	0.5253 ppm	0.5111 ppm	0.4995 ppm	0.4882 ppm	0.4926 ppm
Concentration per Run 2	0.4610 ppm	5.5753 ppm	0.5236 ppm	0.5088 ppm	0.4991 ppm	0.4867 ppm	0.4927 ppm
Concentration per Run 3	0.4647 ppm	5.5266 ppm	0.5157 ppm	0.5144 ppm	0.4917 ppm	0.4872 ppm	0.4869 ppm
Recovery Percentage 1	92.504 %	105.941 %	104.311 %	102.287 %	99.355 %	97.471 %	98.144 %
Concentration RSD	0.4 %	0.6 %	1.0 %	0.6 %	0.9 %	0.2 %	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	0.5089 ppm	103.3975 %	104.3621 %	96.2912 %	90.7359 %	98.8907 %	94.3708 %
Concentration per Run 1	0.5122 ppm	103.0338 %	104.7560 %	95.7337 %	90.8317 %	98.8971 %	94.0044 %
Concentration per Run 2	0.5102 ppm	103.0515 %	103.9076 %	96.8698 %	90.8859 %	98.9829 %	95.2297 %
Concentration per Run 3	0.5042 ppm	104.1074 %	104.4227 %	96.2701 %	90.4901 %	98.7920 %	93.8784 %
Recovery Percentage 1	101.774 %						
Concentration RSD	0.8 %	0.6 %	0.4 %	0.6 %	0.2 %	0.1 %	0.8 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: ICB
Analysis started at: 12/20/2024 9:31:02 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	0.0056 ppm	0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0018 ppm
Concentration per Run 1	0.0000 ppm	0.0100 ppm	-0.0005 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	-0.0021 ppm
Concentration per Run 2	-0.0002 ppm	0.0033 ppm	0.0002 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	-0.0036 ppm
Concentration per Run 3	-0.0002 ppm	0.0035 ppm	0.0007 ppm	-0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0004 ppm
Recovery Percentage 1	-2.378 %	5.616 %	2.641 %	0.880 %	0.391 %	0.417 %	-1.774 %
Concentration RSD	78.5 %	67.6 %	482.1 %	317.0 %	42.2 %	49.6 %	115.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0006 ppm	-0.0001 ppm	0.0179 ppm	0.0005 ppm
Concentration per Run 1	0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0007 ppm	0.0002 ppm	0.0193 ppm	0.0005 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0007 ppm	0.0003 ppm	0.0203 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	-0.0001 ppm	0.0003 ppm	-0.0009 ppm	0.0140 ppm	0.0004 ppm
Recovery Percentage 1	2.329 %	-0.851 %	0.641 %	5.740 %	-0.294 %	0.715 %	5.330 %
Concentration RSD	73.0 %	345.4 %	262.5 %	46.5 %	433.0 %	19.0 %	16.9 %

	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	-0.0009 ppm	0.0000 ppm	0.0031 ppm	-0.0083 ppm	0.0000 ppm	0.0010 ppm	0.0011 ppm
Concentration per Run 1	-0.0004 ppm	0.0001 ppm	0.0031 ppm	-0.0092 ppm	-0.0001 ppm	0.0007 ppm	0.0014 ppm
Concentration per Run 2	-0.0012 ppm	-0.0001 ppm	0.0028 ppm	-0.0079 ppm	-0.0006 ppm	0.0012 ppm	-0.0008 ppm
Concentration per Run 3	-0.0011 ppm	0.0001 ppm	0.0032 ppm	-0.0077 ppm	0.0008 ppm	0.0011 ppm	0.0028 ppm
Recovery Percentage 1	-0.896 %	0.391 %	6.107 %	-0.413 %	0.166 %	9.681 %	2.254 %
Concentration RSD	49.0 %	270.5 %	7.0 %	9.5 %	1,664.2 %	28.4 %	161.2 %

	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	-0.0019 ppm	-0.0020 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 1	-0.0018 ppm	-0.0019 ppm	-0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0005 ppm	0.0003 ppm
Concentration per Run 2	-0.0028 ppm	-0.0018 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 3	-0.0011 ppm	-0.0023 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0001 ppm
Recovery Percentage 1	-19.093 %	-0.398 %	0.269 %	0.319 %	0.418 %	-0.893 %	1.386 %
Concentration RSD	43.1 %	12.8 %	190.4 %	59.5 %	265.3 %	169.9 %	95.8 %

	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	-0.0004 ppm	97.9970 %	101.7849 %	95.5753 %	93.5745 %	100.7738 %	97.0786 %
Concentration per Run 1	-0.0004 ppm	96.9244 %	102.0371 %	94.8405 %	93.7776 %	101.5691 %	97.0133 %
Concentration per Run 2	-0.0004 ppm	98.7320 %	101.4949 %	95.6606 %	94.4105 %	100.0167 %	96.8327 %
Concentration per Run 3	-0.0003 ppm	98.3346 %	101.8226 %	96.2247 %	92.5355 %	100.7355 %	97.3899 %
Recovery Percentage 1	-7.530 %						
Concentration RSD	6.9 %	1.0 %	0.3 %	0.7 %	1.0 %	0.8 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: ICV
Analysis started at: 12/20/2024 9:37:25 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	0.5072 ppm	0.4880 ppm	0.4754 ppm	0.5041 ppm	0.4998 ppm	0.5127 ppm	0.5192 ppm
Concentration per Run 1	0.5123 ppm	0.4836 ppm	0.4736 ppm	0.5118 ppm	0.4977 ppm	0.5143 ppm	0.5198 ppm
Concentration per Run 2	0.5063 ppm	0.4926 ppm	0.4787 ppm	0.5045 ppm	0.5048 ppm	0.5141 ppm	0.5204 ppm
Concentration per Run 3	0.5031 ppm	0.4878 ppm	0.4739 ppm	0.4960 ppm	0.4969 ppm	0.5098 ppm	0.5174 ppm
Recovery Percentage 1	101.446 %	97.600 %	95.086 %	100.823 %	99.962 %	102.547 %	103.843 %
Concentration RSD	0.9 %	0.9 %	0.6 %	1.6 %	0.9 %	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	0.5055 ppm	0.5208 ppm	0.5068 ppm	0.5074 ppm	0.5220 ppm	5.1833 ppm	0.5007 ppm
Concentration per Run 1	0.5096 ppm	0.5268 ppm	0.5122 ppm	0.5109 ppm	0.5229 ppm	5.1645 ppm	0.4946 ppm
Concentration per Run 2	0.5062 ppm	0.5205 ppm	0.5065 ppm	0.5090 ppm	0.5246 ppm	5.1897 ppm	0.5038 ppm
Concentration per Run 3	0.5007 ppm	0.5151 ppm	0.5018 ppm	0.5023 ppm	0.5185 ppm	5.1958 ppm	0.5038 ppm
Recovery Percentage 1	101.097 %	104.157 %	101.360 %	101.475 %	104.394 %	103.667 %	100.148 %
Concentration RSD	0.9 %	1.1 %	1.0 %	0.9 %	0.6 %	0.3 %	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	0.5157 ppm	0.4962 ppm	0.5205 ppm	10.1736 ppm	0.5223 ppm	0.4947 ppm	0.5134 ppm
Concentration per Run 1	0.5229 ppm	0.4974 ppm	0.5204 ppm	10.0558 ppm	0.5293 ppm	0.4921 ppm	0.5165 ppm
Concentration per Run 2	0.5148 ppm	0.4966 ppm	0.5220 ppm	10.2067 ppm	0.5216 ppm	0.4979 ppm	0.5165 ppm
Concentration per Run 3	0.5092 ppm	0.4945 ppm	0.5193 ppm	10.2582 ppm	0.5162 ppm	0.4942 ppm	0.5072 ppm
Recovery Percentage 1	103.133 %	99.236 %	104.109 %	101.736 %	104.469 %	98.949 %	102.676 %
Concentration RSD	1.3 %	0.3 %	0.3 %	1.0 %	1.3 %	0.6 %	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	0.4744 ppm	5.7478 ppm	0.5466 ppm	0.5207 ppm	0.5071 ppm	0.5024 ppm	0.5026 ppm
Concentration per Run 1	0.4760 ppm	5.7993 ppm	0.5535 ppm	0.5197 ppm	0.5119 ppm	0.5012 ppm	0.5066 ppm
Concentration per Run 2	0.4776 ppm	5.7558 ppm	0.5450 ppm	0.5225 ppm	0.5060 ppm	0.5040 ppm	0.5024 ppm
Concentration per Run 3	0.4697 ppm	5.6882 ppm	0.5414 ppm	0.5197 ppm	0.5033 ppm	0.5020 ppm	0.4987 ppm
Recovery Percentage 1	94.887 %	109.481 %	109.328 %	104.133 %	101.411 %	100.481 %	100.513 %
Concentration RSD	0.9 %	1.0 %	1.1 %	0.3 %	0.9 %	0.3 %	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	0.5157 ppm	106.8027 %	105.8672 %	99.4110 %	93.5649 %	100.3368 %	96.1536 %
Concentration per Run 1	0.5211 ppm	105.8734 %	105.2397 %	99.6946 %	93.0259 %	100.0183 %	96.5054 %
Concentration per Run 2	0.5169 ppm	106.3352 %	105.7060 %	98.9340 %	93.1614 %	99.6996 %	95.7905 %
Concentration per Run 3	0.5090 ppm	108.1995 %	106.6560 %	99.6045 %	94.5075 %	101.2924 %	96.1650 %
Recovery Percentage 1	103.133 %						
Concentration RSD	1.2 %	1.2 %	0.7 %	0.4 %	0.9 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: ICB
Analysis started at: 12/20/2024 9:41:59 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	0.0034 ppm	0.0003 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0018 ppm
Concentration per Run 1	0.0000 ppm	0.0026 ppm	0.0003 ppm	0.0010 ppm	0.0001 ppm	0.0000 ppm	-0.0009 ppm
Concentration per Run 2	-0.0002 ppm	0.0017 ppm	0.0000 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0017 ppm
Concentration per Run 3	0.0000 ppm	0.0058 ppm	0.0007 ppm	-0.0008 ppm	0.0001 ppm	0.0000 ppm	-0.0028 ppm
Recovery Percentage 1	-1.254 %	3.367 %	6.179 %	0.608 %	1.090 %	0.529 %	-1.813 %
Concentration RSD	175.6 %	63.3 %	120.5 %	492.9 %	4.1 %	105.4 %	54.3 %

	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	-0.0004 ppm	0.0000 ppm	0.0004 ppm	-0.0003 ppm	0.0158 ppm	0.0004 ppm
Concentration per Run 1	0.0001 ppm	-0.0005 ppm	0.0002 ppm	0.0004 ppm	-0.0003 ppm	0.0213 ppm	0.0007 ppm
Concentration per Run 2	0.0000 ppm	-0.0005 ppm	0.0000 ppm	0.0006 ppm	-0.0007 ppm	0.0139 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0122 ppm	0.0004 ppm
Recovery Percentage 1	1.289 %	-3.810 %	0.276 %	4.494 %	-0.698 %	0.633 %	4.421 %
Concentration RSD	58.1 %	58.8 %	693.7 %	39.7 %	88.6 %	30.7 %	57.6 %

	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	0.0026 ppm	-0.0067 ppm	0.0000 ppm	0.0006 ppm	0.0007 ppm
Concentration per Run 1	-0.0004 ppm	0.0001 ppm	0.0022 ppm	-0.0067 ppm	-0.0005 ppm	-0.0001 ppm	-0.0005 ppm
Concentration per Run 2	-0.0013 ppm	0.0000 ppm	0.0031 ppm	-0.0067 ppm	-0.0002 ppm	0.0015 ppm	0.0023 ppm
Concentration per Run 3	-0.0008 ppm	-0.0001 ppm	0.0023 ppm	-0.0068 ppm	0.0007 ppm	0.0005 ppm	0.0002 ppm
Recovery Percentage 1	-0.859 %	0.159 %	5.119 %	-0.336 %	0.034 %	6.238 %	1.344 %
Concentration RSD	52.5 %	771.6 %	18.7 %	0.6 %	7,131.2 %	128.5 %	219.7 %

	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	-0.0012 ppm	-0.0015 ppm	-0.0001 ppm	0.0000 ppm	-0.0002 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 1	-0.0018 ppm	0.0000 ppm	-0.0007 ppm	0.0000 ppm	0.0000 ppm	-0.0009 ppm	0.0002 ppm
Concentration per Run 2	-0.0018 ppm	-0.0021 ppm	-0.0001 ppm	0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 3	0.0001 ppm	-0.0025 ppm	0.0007 ppm	0.0000 ppm	-0.0001 ppm	-0.0011 ppm	0.0000 ppm
Recovery Percentage 1	-11.643 %	-0.306 %	-0.143 %	0.132 %	-1.638 %	-3.338 %	0.999 %
Concentration RSD	90.8 %	88.6 %	1,001.8 %	356.5 %	116.0 %	88.7 %	89.7 %

	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	-0.0004 ppm	99.5311 %	101.7753 %	96.6121 %	95.9466 %	101.2396 %	97.0213 %
Concentration per Run 1	-0.0006 ppm	99.0498 %	101.6815 %	95.4519 %	96.6766 %	101.2178 %	96.8243 %
Concentration per Run 2	-0.0001 ppm	98.6811 %	101.9376 %	97.3184 %	95.0117 %	101.4912 %	97.6001 %
Concentration per Run 3	-0.0005 ppm	100.8626 %	101.7069 %	97.0659 %	96.1515 %	101.0098 %	96.6397 %
Recovery Percentage 1	-8.310 %						
Concentration RSD	63.5 %	1.2 %	0.1 %	1.0 %	0.9 %	0.2 %	0.5 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: LLOQ
Analysis started at: 12/20/2024 9:46:24 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	0.0052 ppm	0.0995 ppm	**0.0061 ppm**	0.0307 ppm	0.0098 ppm	0.0050 ppm	0.0971 ppm
Concentration per Run 1	0.0052 ppm	0.1005 ppm	0.0057 ppm	0.0312 ppm	0.0098 ppm	0.0050 ppm	0.0962 ppm
Concentration per Run 2	0.0053 ppm	0.0972 ppm	0.0066 ppm	0.0311 ppm	0.0097 ppm	0.0051 ppm	0.0975 ppm
Concentration per Run 3	0.0052 ppm	0.1008 ppm	0.0059 ppm	0.0297 ppm	0.0098 ppm	0.0050 ppm	0.0976 ppm
Recovery Percentage 1	104.439 %	99.501 %	122.047 %	102.230 %	97.565 %	100.680 %	97.130 %
Concentration RSD	0.7 %	2.0 %	**8.0 %**	2.7 %	0.4 %	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	0.0041 ppm	0.0101 ppm	0.0102 ppm	0.0110 ppm	0.0542 ppm	2.5596 ppm	0.0108 ppm
Concentration per Run 1	0.0043 ppm	0.0100 ppm	0.0105 ppm	0.0114 ppm	0.0547 ppm	2.5485 ppm	0.0112 ppm
Concentration per Run 2	0.0040 ppm	0.0103 ppm	0.0102 ppm	0.0108 ppm	0.0541 ppm	2.5977 ppm	0.0109 ppm
Concentration per Run 3	0.0041 ppm	0.0099 ppm	0.0100 ppm	0.0109 ppm	0.0538 ppm	2.5327 ppm	0.0102 ppm
Recovery Percentage 1	102.330 %	100.778 %	102.353 %	110.114 %	108.407 %	102.386 %	107.548 %
Concentration RSD	3.6 %	2.2 %	2.3 %	2.9 %	0.9 %	1.3 %	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	0.1062 ppm	0.0100 ppm	0.0553 ppm	1.9965 ppm	0.0211 ppm	0.0105 ppm	0.0545 ppm
Concentration per Run 1	0.1082 ppm	0.0099 ppm	0.0561 ppm	1.9876 ppm	0.0215 ppm	0.0099 ppm	0.0546 ppm
Concentration per Run 2	0.1062 ppm	0.0101 ppm	0.0550 ppm	2.0206 ppm	0.0208 ppm	0.0115 ppm	0.0547 ppm
Concentration per Run 3	0.1042 ppm	0.0101 ppm	0.0549 ppm	1.9813 ppm	0.0211 ppm	0.0100 ppm	0.0544 ppm
Recovery Percentage 1	106.183 %	100.267 %	110.687 %	99.824 %	84.497 %	104.752 %	109.086 %
Concentration RSD	1.9 %	1.4 %	1.1 %	1.1 %	1.7 %	8.3 %	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	**0.0079 ppm**	0.5240 ppm	0.0547 ppm	0.0099 ppm	0.0102 ppm	0.0196 ppm	0.0102 ppm
Concentration per Run 1	0.0079 ppm	0.5302 ppm	0.0567 ppm	0.0099 ppm	0.0104 ppm	0.0196 ppm	0.0103 ppm
Concentration per Run 2	0.0072 ppm	0.5246 ppm	0.0539 ppm	0.0100 ppm	0.0101 ppm	0.0196 ppm	0.0102 ppm
Concentration per Run 3	0.0087 ppm	0.5173 ppm	0.0536 ppm	0.0099 ppm	0.0100 ppm	0.0196 ppm	0.0102 ppm
Recovery Percentage 1	79.251 %	104.810 %	109.457 %	99.190 %	101.547 %	98.049 %	102.028 %
Concentration RSD	**9.4 %**	1.2 %	3.2 %	0.5 %	2.0 %	0.2 %	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	0.0052 ppm	103.6970 %	104.9094 %	100.0884 %	94.3373 %	100.4282 %	96.9334 %
Concentration per Run 1	0.0055 ppm	102.3522 %	105.3304 %	99.8147 %	94.0981 %	100.3579 %	97.2420 %
Concentration per Run 2	0.0049 ppm	104.1033 %	104.3341 %	99.6820 %	94.8069 %	100.6100 %	96.5661 %
Concentration per Run 3	0.0050 ppm	104.6354 %	105.0635 %	100.7685 %	94.1070 %	100.3168 %	96.9920 %
Recovery Percentage 1	103.189 %						
Concentration RSD	5.9 %	1.2 %	0.5 %	0.6 %	0.4 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: ICSA
Analysis started at: 12/20/2024 9:51:04 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	0.0009 ppm	515.2938 [SIC 500]	0.0002 ppm	0.0009 ppm	0.0015 ppm	0.0000 ppm	461.0406 ppm
Concentration per Run 1	0.0012 ppm	514.8526 ppm	-0.0006 ppm	0.0004 ppm	0.0015 ppm	0.0001 ppm	460.6280 ppm
Concentration per Run 2	0.0008 ppm	517.6086 ppm	-0.0018 ppm	-0.0001 ppm	0.0015 ppm	0.0000 ppm	462.0257 ppm
Concentration per Run 3	0.0006 ppm	513.4203 ppm	0.0029 ppm	0.0026 ppm	0.0015 ppm	0.0000 ppm	460.4682 ppm
Recovery Percentage 1	17.158 %	515,293.843 %	3.507 %	3.160 %	15.100 %	0.829 %	461,040.643 %
Concentration RSD	34.3 %	0.4 %	1,381.0 %	150.0 %	1.8 %	88.6 %	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	-0.0014 ppm	-0.0006 ppm	0.0001 ppm	0.0003 ppm	178.1748 ppm	0.0126 ppm	-0.0008 ppm
Concentration per Run 1	-0.0014 ppm	-0.0003 ppm	0.0005 ppm	0.0003 ppm	177.9150 ppm	0.0064 ppm	-0.0009 ppm
Concentration per Run 2	-0.0016 ppm	-0.0007 ppm	0.0001 ppm	0.0005 ppm	179.6356 ppm	0.0007 ppm	0.0021 ppm
Concentration per Run 3	-0.0013 ppm	-0.0006 ppm	-0.0004 ppm	0.0003 ppm	176.9739 ppm	0.0307 ppm	-0.0036 ppm
Recovery Percentage 1	-36.081 %	-5.656 %	0.977 %	3.285 %	356,349.659 %	0.503 %	-8.048 %
Concentration RSD	10.4 %	34.1 %	476.2 %	33.7 %	0.8 %	126.3 %	358.0 %

	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	459.4580 ppm	0.0015 ppm	-0.0009 ppm	0.0184 ppm	0.0001 ppm	-0.0035 ppm	-0.0072 ppm
Concentration per Run 1	463.8175 ppm	0.0015 ppm	-0.0010 ppm	0.0202 ppm	0.0005 ppm	-0.0050 ppm	-0.0040 ppm
Concentration per Run 2	458.2639 ppm	0.0017 ppm	-0.0018 ppm	0.0195 ppm	-0.0005 ppm	-0.0033 ppm	-0.0079 ppm
Concentration per Run 3	456.2926 ppm	0.0013 ppm	0.0001 ppm	0.0155 ppm	0.0002 ppm	-0.0021 ppm	-0.0097 ppm
Recovery Percentage 1	459,457.991 %	14.975 %	-1.810 %	0.919 %	0.246 %	-34.690 %	-14.400 %
Concentration RSD	0.8 %	15.2 %	107.6 %	13.6 %	864.5 %	43.0 %	40.8 %

	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	-0.0173 ppm	0.0016 ppm	0.0012 ppm	-0.0010 ppm	0.0008 ppm	0.0000 ppm
Concentration per Run 1	-0.0002 ppm	-0.0157 ppm	0.0001 ppm	0.0012 ppm	-0.0009 ppm	0.0021 ppm	0.0000 ppm
Concentration per Run 2	-0.0001 ppm	-0.0172 ppm	0.0031 ppm	0.0013 ppm	-0.0010 ppm	0.0008 ppm	0.0003 ppm
Concentration per Run 3	-0.0040 ppm	-0.0191 ppm	0.0017 ppm	0.0012 ppm	-0.0012 ppm	-0.0004 ppm	-0.0002 ppm
Recovery Percentage 1	-14.282 %	-3.463 %	3.198 %	12.357 %	-10.019 %	4.127 %	0.379 %
Concentration RSD	156.0 %	9.7 %	93.5 %	2.4 %	14.7 %	151.6 %	561.7 %

	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	-0.0014 ppm	89.0297 %	96.0339 %	68.9586 %	76.0796 %	91.0905 %	77.7080 %
Concentration per Run 1	-0.0013 ppm	88.5727 %	96.0850 %	69.1357 %	75.8166 %	91.4816 %	77.9029 %
Concentration per Run 2	-0.0017 ppm	89.1312 %	96.1711 %	68.4430 %	76.3047 %	90.9724 %	77.2256 %
Concentration per Run 3	-0.0012 ppm	89.3851 %	95.8457 %	69.2970 %	76.1175 %	90.8177 %	77.9956 %
Recovery Percentage 1	-27.288 %						
Concentration RSD	19.0 %	0.5 %	0.2 %	0.7 %	0.3 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: SIC Multi
Analysis started at: 12/20/2024 9:56:30 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	0.0523 ppm	-0.0049 ppm	0.0022 ppm	0.0003 ppm	-0.0014 ppm	0.0356 ppm
Concentration per Run 1	-0.0007 ppm	0.0541 ppm	-0.0055 ppm	0.0026 ppm	0.0003 ppm	-0.0012 ppm	0.0363 ppm
Concentration per Run 2	-0.0007 ppm	0.0515 ppm	-0.0042 ppm	0.0012 ppm	0.0003 ppm	-0.0014 ppm	0.0356 ppm
Concentration per Run 3	-0.0007 ppm	0.0513 ppm	-0.0051 ppm	0.0028 ppm	0.0003 ppm	-0.0015 ppm	0.0350 ppm
Recovery Percentage 1	-14.179 %	52.308 %	-98.725 %	7.343 %	3.015 %	-27.723 %	35.613 %
Concentration RSD	4.7 %	3.0 %	13.9 %	41.6 %	3.6 %	11.4 %	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	0.0000 ppm	-0.0056 ppm	19.6419 ppm	-0.0012 ppm	0.0250 ppm	0.0190 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	-0.0060 ppm	19.7967 ppm	-0.0013 ppm	0.0260 ppm	0.0118 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	-0.0053 ppm	19.5599 ppm	-0.0012 ppm	0.0241 ppm	0.0194 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	-0.0056 ppm	19.5691 ppm	-0.0012 ppm	0.0249 ppm	0.0259 ppm	0.0003 ppm
Recovery Percentage 1	0.014 %	-56.248 %	196,419.077 %	-12.234 %	49.984 %	0.762 %	6.082 %
Concentration RSD	3,286.9 %	6.2 %	0.7 %	4.7 %	3.8 %	37.1 %	51.6 %

	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	0.0467 ppm	19.6931 ppm	0.0017 ppm	-0.0036 ppm	-0.0001 ppm	-0.0040 ppm	-0.0149 ppm
Concentration per Run 1	0.0473 ppm	19.8104 ppm	0.0016 ppm	-0.0052 ppm	0.0002 ppm	-0.0046 ppm	-0.0143 ppm
Concentration per Run 2	0.0445 ppm	19.6833 ppm	0.0015 ppm	-0.0027 ppm	0.0002 ppm	-0.0035 ppm	-0.0154 ppm
Concentration per Run 3	0.0484 ppm	19.5857 ppm	0.0019 ppm	-0.0029 ppm	-0.0007 ppm	-0.0040 ppm	-0.0149 ppm
Recovery Percentage 1	46.735 %	196,931.308 %	3.302 %	-0.181 %	-0.413 %	-40.287 %	-29.721 %
Concentration RSD	4.2 %	0.6 %	13.4 %	38.4 %	520.0 %	13.7 %	3.8 %

	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	-0.0093 ppm	0.1123 ppm	-0.0084 ppm	0.0001 ppm	19.3290 ppm	0.0045 ppm	9.9030 ppm
Concentration per Run 1	-0.0080 ppm	0.0847 ppm	-0.0092 ppm	0.0001 ppm	19.4638 ppm	0.0027 ppm	9.9795 ppm
Concentration per Run 2	-0.0100 ppm	0.1160 ppm	-0.0086 ppm	0.0001 ppm	19.2483 ppm	0.0039 ppm	9.8652 ppm
Concentration per Run 3	-0.0099 ppm	0.1362 ppm	-0.0075 ppm	0.0001 ppm	19.2749 ppm	0.0069 ppm	9.8643 ppm
Recovery Percentage 1	-92.922 %	22.460 %	-16.823 %	0.786 %	193,289.878 %	22.342 %	99,029.950 %
Concentration RSD	12.0 %	23.1 %	10.6 %	33.8 %	0.6 %	48.8 %	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	0.0002 ppm	106.8323 %	105.7380 %	69.0991 %	92.7527 %	99.9598 %	95.1303 %
Concentration per Run 1	0.0003 ppm	106.1693 %	105.1711 %	68.3824 %	92.7599 %	99.6762 %	94.9166 %
Concentration per Run 2	0.0004 ppm	107.1307 %	105.6470 %	69.9980 %	93.0060 %	100.2628 %	95.7747 %
Concentration per Run 3	-0.0001 ppm	107.1970 %	106.3960 %	68.9170 %	92.4922 %	99.9403 %	94.6996 %
Recovery Percentage 1	4.059 %						
Concentration RSD	114.3 %	0.5 %	0.6 %	1.2 %	0.3 %	0.3 %	0.6 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: LDR Check
Analysis started at: 12/20/2024 10:01:30 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	-0.0058 ppm	23.3175 ppm	19.1845 ppm	18.1753 ppm	4.8907 ppm	0.0168 ppm
Concentration per Run 1	0.0026 ppm	-0.0057 ppm	23.3512 ppm	19.2164 ppm	18.2006 ppm	4.9172 ppm	0.0172 ppm
Concentration per Run 2	0.0025 ppm	-0.0054 ppm	23.2479 ppm	19.1941 ppm	18.0183 ppm	4.8337 ppm	0.0165 ppm
Concentration per Run 3	0.0023 ppm	-0.0063 ppm	23.3534 ppm	19.1430 ppm	18.3069 ppm	4.9213 ppm	0.0166 ppm
Recovery Percentage 1			116.587 %	95.922 %	90.876 %		0.000 %
Concentration RSD	6.6 %	8.3 %	0.3 %	0.2 %	0.8 %	1.0 %	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	4.7864 ppm	4.7916 ppm	0.0016 ppm	19.0583 ppm	0.0037 ppm	493.9568 ppm	17.9870 ppm
Concentration per Run 1	4.7786 ppm	4.7851 ppm	0.0020 ppm	19.1048 ppm	0.0041 ppm	492.3016 ppm	17.9011 ppm
Concentration per Run 2	4.7953 ppm	4.8007 ppm	0.0015 ppm	19.0755 ppm	0.0032 ppm	491.1803 ppm	17.9367 ppm
Concentration per Run 3	4.7853 ppm	4.7891 ppm	0.0012 ppm	18.9945 ppm	0.0038 ppm	498.3884 ppm	18.1232 ppm
Recovery Percentage 1	95.728 %	95.833 %		95.291 %	0.000 %	98.791 %	89.935 %
Concentration RSD	0.2 %	0.2 %	26.3 %	0.3 %	12.6 %	0.8 %	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	-0.0071 ppm	0.0028 ppm	4.6638 ppm	432.4312 ppm	9.4565 ppm	50.3764 ppm	4.9331 ppm
Concentration per Run 1	-0.0057 ppm	0.0028 ppm	4.5934 ppm	432.0526 ppm	9.4703 ppm	50.5577 ppm	4.9051 ppm
Concentration per Run 2	-0.0074 ppm	0.0028 ppm	4.6690 ppm	427.2188 ppm	9.4626 ppm	50.2315 ppm	4.9393 ppm
Concentration per Run 3	-0.0084 ppm	0.0027 ppm	4.7291 ppm	438.0222 ppm	9.4366 ppm	50.3399 ppm	4.9548 ppm
Recovery Percentage 1		0.000 %	93.276 %	86.486 %	94.565 %	100.753 %	98.661 %
Concentration RSD	19.2 %	2.6 %	1.5 %	1.3 %	0.2 %	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	5.4457 [SIC 20]	21.0828 [SIC 100]	9.8992 ppm	4.7809 ppm	0.0096 ppm	4.6571 ppm	0.0040 ppm
Concentration per Run 1	5.4504 ppm	21.0089 ppm	9.8710 ppm	4.7939 ppm	0.0101 ppm	4.6749 ppm	0.0043 ppm
Concentration per Run 2	5.4341 ppm	21.1291 ppm	9.9063 ppm	4.7524 ppm	0.0095 ppm	4.6414 ppm	0.0039 ppm
Concentration per Run 3	5.4525 ppm	21.1105 ppm	9.9204 ppm	4.7964 ppm	0.0092 ppm	4.6551 ppm	0.0039 ppm
Recovery Percentage 1	108.913 %	105.414 %	98.992 %	95.618 %	0.000 %	93.142 %	0.000 %
Concentration RSD	0.2 %	0.3 %	0.3 %	0.5 %	4.4 %	0.4 %	5.2 %

	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	19.7687 ppm	92.4707 %	98.7993 %	75.1703 %	78.0306 %	91.9303 %	80.0329 %
Concentration per Run 1	19.7455 ppm	92.6453 %	97.7520 %	74.9773 %	78.4593 %	91.0893 %	79.8968 %
Concentration per Run 2	19.8030 ppm	92.1412 %	100.5137 %	75.2508 %	77.7075 %	92.9677 %	80.2388 %
Concentration per Run 3	19.7574 ppm	92.6256 %	98.1320 %	75.2828 %	77.9251 %	91.7340 %	79.9631 %
Recovery Percentage 1	98.843 %						
Concentration RSD	0.2 %	0.3 %	1.5 %	0.2 %	0.5 %	1.0 %	0.2 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: xLLOQ 0.005
Analysis started at: 12/20/2024 10:21:32 AM
Rack 1
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0049 ppm	0.0104 ppm	**0.0066 ppm**	0.0060 ppm	0.0052 ppm	0.0051 ppm	0.0085 ppm
Concentration per Run 1	0.0046 ppm	0.0117 ppm	0.0053 ppm	0.0057 ppm	0.0053 ppm	0.0050 ppm	0.0088 ppm
Concentration per Run 2	0.0051 ppm	0.0080 ppm	0.0077 ppm	0.0072 ppm	0.0052 ppm	0.0052 ppm	0.0060 ppm
Concentration per Run 3	0.0051 ppm	0.0113 ppm	0.0068 ppm	0.0052 ppm	0.0052 ppm	0.0051 ppm	0.0106 ppm
Recovery Percentage 1	98.506 %	0.000 %	132.160 %	0.000 %	0.000 %	101.867 %	0.000 %
Concentration RSD	5.5 %	19.5 %	**18.2 %**	16.8 %	0.9 %	1.1 %	27.4 %

	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	0.0051 ppm	0.0051 ppm	0.0048 ppm	0.0056 ppm	0.0043 ppm	0.1118 ppm	0.0070 ppm
Concentration per Run 1	0.0049 ppm	0.0049 ppm	0.0046 ppm	0.0053 ppm	0.0042 ppm	0.1113 ppm	0.0068 ppm
Concentration per Run 2	0.0052 ppm	0.0052 ppm	0.0050 ppm	0.0059 ppm	0.0044 ppm	0.1149 ppm	0.0074 ppm
Concentration per Run 3	0.0051 ppm	0.0051 ppm	0.0049 ppm	0.0056 ppm	0.0043 ppm	0.1093 ppm	0.0068 ppm
Recovery Percentage 1	101.596 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	3.0 %	2.8 %	3.8 %	6.1 %	2.1 %	2.5 %	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	0.0057 ppm	0.0050 ppm	0.0059 ppm	0.1204 ppm	0.0053 ppm	0.0059 ppm	0.0074 ppm
Concentration per Run 1	0.0049 ppm	0.0050 ppm	0.0057 ppm	0.1233 ppm	0.0050 ppm	0.0068 ppm	0.0072 ppm
Concentration per Run 2	0.0052 ppm	0.0050 ppm	0.0061 ppm	0.1205 ppm	0.0054 ppm	0.0051 ppm	0.0081 ppm
Concentration per Run 3	0.0070 ppm	0.0049 ppm	0.0058 ppm	0.1174 ppm	0.0055 ppm	0.0056 ppm	0.0068 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	20.1 %	0.9 %	3.2 %	2.4 %	4.9 %	14.9 %	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	0.0027 ppm	0.0553 ppm	0.0065 ppm	0.0051 ppm	0.0050 ppm	0.0049 ppm	0.0049 ppm
Concentration per Run 1	0.0033 ppm	0.0518 ppm	0.0063 ppm	0.0050 ppm	0.0047 ppm	0.0055 ppm	0.0048 ppm
Concentration per Run 2	0.0020 ppm	0.0584 ppm	0.0066 ppm	0.0052 ppm	0.0053 ppm	0.0047 ppm	0.0051 ppm
Concentration per Run 3	0.0028 ppm	0.0557 ppm	0.0064 ppm	0.0052 ppm	0.0050 ppm	0.0046 ppm	0.0050 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	24.4 %	6.0 %	2.1 %	1.7 %	5.1 %	10.3 %	3.7 %

	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	0.0052 ppm	105.3265 %	105.0325 %	99.2523 %	95.0430 %	101.7418 %	97.3021 %
Concentration per Run 1	0.0050 ppm	110.2400 %	105.6494 %	99.1586 %	98.7121 %	102.4740 %	97.8400 %
Concentration per Run 2	0.0053 ppm	101.2569 %	103.9770 %	99.0571 %	90.7422 %	101.1782 %	96.9718 %
Concentration per Run 3	0.0051 ppm	104.4826 %	105.4713 %	99.5413 %	95.6747 %	101.5733 %	97.0945 %
Recovery Percentage 1	103.024 %						
Concentration RSD	2.9 %	4.3 %	0.9 %	0.3 %	4.2 %	0.7 %	0.5 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: LLOQ 0.01ppm Se
Analysis started at: 12/20/2024 10:26:02 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	0.0105 ppm	0.0144 ppm	0.0100 ppm	0.0103 ppm	0.0101 ppm	0.0101 ppm	0.0181 ppm
Concentration per Run 1	0.0107 ppm	0.0137 ppm	0.0099 ppm	0.0110 ppm	0.0103 ppm	0.0103 ppm	0.0189 ppm
Concentration per Run 2	0.0105 ppm	0.0157 ppm	0.0096 ppm	0.0097 ppm	0.0100 ppm	0.0101 ppm	0.0175 ppm
Concentration per Run 3	0.0104 ppm	0.0137 ppm	0.0105 ppm	0.0102 ppm	0.0101 ppm	0.0101 ppm	0.0179 ppm
Recovery Percentage 1	0.000 %	0.000 %	99.633 %	102.632 %	101.221 %	0.000 %	0.000 %
Concentration RSD	1.1 %	8.1 %	4.5 %	6.4 %	1.6 %	1.2 %	4.1 %

	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	0.0106 ppm	0.0110 ppm	0.0105 ppm	0.0111 ppm	0.0102 ppm	0.1594 ppm	**0.0122 ppm**
Concentration per Run 1	0.0109 ppm	0.0112 ppm	0.0107 ppm	0.0114 ppm	0.0103 ppm	0.1636 ppm	0.0130 ppm
Concentration per Run 2	0.0103 ppm	0.0108 ppm	0.0105 ppm	0.0110 ppm	0.0100 ppm	0.1462 ppm	0.0116 ppm
Concentration per Run 3	0.0105 ppm	0.0109 ppm	0.0105 ppm	0.0109 ppm	0.0105 ppm	0.1685 ppm	0.0121 ppm
Recovery Percentage 1	0.000 %	109.639 %	105.371 %	110.935 %	0.000 %	0.000 %	122.209 %
Concentration RSD	2.5 %	1.5 %	1.1 %	2.3 %	2.5 %	7.4 %	**5.6 %**

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0108 ppm	0.0100 ppm	0.0115 ppm	0.2193 ppm	0.0111 ppm	0.0108 ppm	0.0129 ppm
Concentration per Run 1	0.0117 ppm	0.0101 ppm	0.0112 ppm	0.2225 ppm	0.0113 ppm	0.0109 ppm	0.0127 ppm
Concentration per Run 2	0.0098 ppm	0.0099 ppm	0.0116 ppm	0.2170 ppm	0.0114 ppm	0.0109 ppm	0.0129 ppm
Concentration per Run 3	0.0108 ppm	0.0099 ppm	0.0116 ppm	0.2183 ppm	0.0108 ppm	0.0107 ppm	0.0132 ppm
Recovery Percentage 1	0.000 %	99.650 %	114.918 %	0.000 %	111.455 %	108.231 %	0.000 %
Concentration RSD	9.1 %	1.6 %	2.0 %	1.3 %	3.0 %	1.2 %	2.1 %

	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	0.0086 ppm	0.1133 ppm	0.0119 ppm	0.0102 ppm	0.0103 ppm	0.0097 ppm	0.0104 ppm
Concentration per Run 1	0.0090 ppm	0.1154 ppm	0.0115 ppm	0.0103 ppm	0.0106 ppm	0.0100 ppm	0.0106 ppm
Concentration per Run 2	0.0092 ppm	0.1125 ppm	0.0130 ppm	0.0101 ppm	0.0103 ppm	0.0097 ppm	0.0105 ppm
Concentration per Run 3	0.0076 ppm	0.1119 ppm	0.0110 ppm	0.0102 ppm	0.0101 ppm	0.0095 ppm	0.0102 ppm
Recovery Percentage 1	86.206 %	0.000 %	118.510 %	102.007 %	103.389 %	97.488 %	104.334 %
Concentration RSD	10.0 %	1.7 %	8.8 %	1.2 %	2.8 %	2.2 %	2.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0106 ppm	101.8298 %	104.3027 %	98.8754 %	94.8238 %	101.3032 %	97.2670 %
Concentration per Run 1	0.0105 ppm	99.9007 %	102.9287 %	98.6861 %	94.4076 %	101.1984 %	97.8428 %
Concentration per Run 2	0.0106 ppm	102.8254 %	105.2364 %	98.9109 %	95.7912 %	101.4359 %	97.0792 %
Concentration per Run 3	0.0106 ppm	102.7631 %	104.7428 %	99.0291 %	94.2726 %	101.2754 %	96.8788 %
Recovery Percentage 1	105.904 %						
Concentration RSD	0.5 %	1.6 %	1.2 %	0.2 %	0.9 %	0.1 %	0.5 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: LDR 20PPM As pass
Analysis started at: 12/20/2024 10:30:25 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	0.0000 ppm	0.0028 ppm	18.7054 ppm	-0.0031 ppm	0.0001 ppm	0.0000 ppm	0.0168 ppm
Concentration per Run 1	-0.0001 ppm	0.0022 ppm	18.7943 ppm	-0.0030 ppm	0.0000 ppm	0.0000 ppm	0.0154 ppm
Concentration per Run 2	0.0000 ppm	0.0007 ppm	18.6704 ppm	-0.0028 ppm	0.0001 ppm	0.0000 ppm	0.0189 ppm
Concentration per Run 3	0.0000 ppm	0.0055 ppm	18.6515 ppm	-0.0034 ppm	0.0001 ppm	0.0000 ppm	0.0161 ppm
Concentration RSD	291.1 %	87.7 %	0.4 %	10.8 %	53.9 %	128.2 %	11.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0005 ppm	-0.0001 ppm	0.0037 ppm	0.0075 ppm	0.0435 ppm	0.0010 ppm
Concentration per Run 1	0.0000 ppm	-0.0006 ppm	-0.0003 ppm	0.0039 ppm	0.0076 ppm	0.0306 ppm	0.0010 ppm
Concentration per Run 2	0.0001 ppm	-0.0005 ppm	0.0002 ppm	0.0037 ppm	0.0066 ppm	0.0578 ppm	0.0012 ppm
Concentration per Run 3	0.0001 ppm	-0.0004 ppm	-0.0003 ppm	0.0036 ppm	0.0083 ppm	0.0421 ppm	0.0008 ppm
Concentration RSD	76.2 %	17.5 %	225.3 %	4.8 %	11.2 %	31.4 %	19.3 %

	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	0.0036 ppm	0.0001 ppm	0.0003 ppm	0.0174 ppm	0.0002 ppm	0.0000 ppm	0.0030 ppm
Concentration per Run 1	0.0027 ppm	0.0001 ppm	0.0003 ppm	0.0188 ppm	0.0004 ppm	0.0001 ppm	0.0024 ppm
Concentration per Run 2	0.0051 ppm	0.0001 ppm	0.0001 ppm	0.0175 ppm	-0.0001 ppm	-0.0004 ppm	0.0030 ppm
Concentration per Run 3	0.0030 ppm	0.0001 ppm	0.0004 ppm	0.0158 ppm	0.0002 ppm	0.0004 ppm	0.0037 ppm
Concentration RSD	36.0 %	34.2 %	45.7 %	8.5 %	133.7 %	947.0 %	22.4 %

	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	0.0022 ppm	0.0010 ppm	0.0001 ppm	-0.0001 ppm	-0.0009 ppm	0.0000 ppm
Concentration per Run 1	-0.0008 ppm	0.0034 ppm	0.0011 ppm	0.0001 ppm	0.0000 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 2	-0.0017 ppm	0.0012 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	-0.0009 ppm	0.0000 ppm
Concentration per Run 3	-0.0013 ppm	0.0020 ppm	0.0012 ppm	0.0001 ppm	-0.0002 ppm	-0.0013 ppm	0.0000 ppm
Concentration RSD	35.8 %	50.3 %	32.4 %	29.7 %	157.3 %	53.0 %	189.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	105.9235 %	105.9776 %	100.1007 %	95.1355 %	101.1238 %	97.0159 %
Concentration per Run 1	0.0008 ppm	105.1546 %	104.7292 %	99.8621 %	95.4957 %	100.3954 %	97.4532 %
Concentration per Run 2	0.0006 ppm	105.5365 %	106.8383 %	100.0447 %	94.3704 %	101.8707 %	97.0611 %
Concentration per Run 3	0.0008 ppm	107.0794 %	106.3652 %	100.3952 %	95.5404 %	101.1053 %	96.5334 %
Concentration RSD	15.0 %	1.0 %	1.0 %	0.3 %	0.7 %	0.7 %	0.5 %

LabBook: WG2011751_12202024T8.imexp

Sample:	XLDR 50PPM Ni
Analysis started at:	12/20/2024 10:34:50 AM
Rack	1
Vial	4
Comment	LDR +/-10%

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: LDR 200PPM Fe pass
Analysis started at: 12/20/2024 10:39:44 AM
Rack 1
Vial 5
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	0.0202 ppm	0.0023 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0070 ppm
Concentration per Run 1	0.0017 ppm	0.0205 ppm	0.0028 ppm	0.0009 ppm	0.0002 ppm	0.0000 ppm	0.0063 ppm
Concentration per Run 2	0.0012 ppm	0.0170 ppm	0.0026 ppm	0.0005 ppm	0.0002 ppm	0.0000 ppm	0.0073 ppm
Concentration per Run 3	0.0010 ppm	0.0231 ppm	0.0015 ppm	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0075 ppm
Recovery Percentage 1	26.400 %	20.183 %	45.701 %	1.403 %	2.231 %	0.024 %	7.043 %
Concentration RSD	28.8 %	15.3 %	31.0 %	122.5 %	6.8 %	77.9 %	8.7 %

	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	0.0004 ppm	-0.0012 ppm	-0.0003 ppm	0.0024 ppm	188.7519 ppm	0.0004 ppm	0.0010 ppm
Concentration per Run 1	0.0003 ppm	-0.0012 ppm	-0.0002 ppm	0.0023 ppm	189.6415 ppm	-0.0044 ppm	0.0013 ppm
Concentration per Run 2	0.0006 ppm	-0.0009 ppm	-0.0003 ppm	0.0027 ppm	189.8797 ppm	-0.0019 ppm	0.0010 ppm
Concentration per Run 3	0.0003 ppm	-0.0016 ppm	-0.0005 ppm	0.0022 ppm	186.7345 ppm	0.0073 ppm	0.0007 ppm
Recovery Percentage 1	9.873 %	-12.048 %	-3.148 %	24.044 %	377,503.795 %	0.014 %	10.016 %
Concentration RSD	53.8 %	27.3 %	59.3 %	11.3 %	0.9 %	1,728.5 %	32.2 %

	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	0.0206 ppm	0.0002 ppm	-0.0012 ppm	0.0001 ppm	0.0073 ppm	-0.0001 ppm	0.0032 ppm
Concentration per Run 1	0.0206 ppm	0.0001 ppm	-0.0014 ppm	0.0010 ppm	0.0097 ppm	0.0004 ppm	0.0039 ppm
Concentration per Run 2	0.0186 ppm	0.0003 ppm	-0.0015 ppm	-0.0014 ppm	0.0063 ppm	0.0001 ppm	0.0047 ppm
Concentration per Run 3	0.0227 ppm	0.0001 ppm	-0.0008 ppm	0.0006 ppm	0.0059 ppm	-0.0009 ppm	0.0010 ppm
Recovery Percentage 1	20.614 %	1.909 %	-2.461 %	0.003 %	29.262 %	-1.222 %	6.420 %
Concentration RSD	10.0 %	42.7 %	32.6 %	2,210.1 %	28.3 %	582.6 %	59.6 %

	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	-0.0007 ppm	-0.0009 ppm	0.0005 ppm	0.0001 ppm	-0.0002 ppm	-0.0012 ppm	-0.0007 ppm
Concentration per Run 1	-0.0018 ppm	-0.0001 ppm	0.0002 ppm	0.0001 ppm	-0.0002 ppm	-0.0009 ppm	-0.0007 ppm
Concentration per Run 2	0.0003 ppm	-0.0019 ppm	0.0007 ppm	0.0001 ppm	-0.0002 ppm	-0.0016 ppm	-0.0008 ppm
Concentration per Run 3	-0.0005 ppm	-0.0009 ppm	0.0007 ppm	0.0002 ppm	0.0000 ppm	-0.0010 ppm	-0.0007 ppm
Recovery Percentage 1	-6.846 %	-0.188 %	1.005 %	1.210 %	-1.506 %	-5.858 %	-7.056 %
Concentration RSD	150.2 %	97.6 %	59.2 %	31.0 %	66.0 %	32.6 %	10.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0002 ppm	106.1132 %	105.5752 %	93.7329 %	92.0612 %	99.8516 %	93.5730 %
Concentration per Run 1	-0.0002 ppm	105.7066 %	105.3632 %	93.2023 %	92.6790 %	100.2723 %	93.3891 %
Concentration per Run 2	-0.0002 ppm	105.8498 %	105.0937 %	94.2194 %	91.6135 %	99.3752 %	93.6459 %
Concentration per Run 3	-0.0003 ppm	106.7832 %	106.2689 %	93.7771 %	91.8910 %	99.9074 %	93.6839 %
Recovery Percentage 1	-4.417 %						
Concentration RSD	24.7 %	0.6 %	0.6 %	0.5 %	0.6 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: LDR 500PPM Na pass
Analysis started at: 12/20/2024 10:45:10 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	-0.0001 ppm	0.0040 ppm	0.0010 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0110 ppm
Concentration per Run 1	0.0001 ppm	0.0031 ppm	0.0018 ppm	0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0116 ppm
Concentration per Run 2	0.0000 ppm	0.0044 ppm	0.0007 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0103 ppm
Concentration per Run 3	-0.0002 ppm	0.0045 ppm	0.0004 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0110 ppm
Concentration RSD	228.8 %	20.2 %	73.5 %	88.7 %	14.9 %	38.8 %	5.8 %

	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	-0.0004 ppm	0.0002 ppm	0.0009 ppm	0.0047 ppm	0.2066 ppm	0.0037 ppm
Concentration per Run 1	-0.0001 ppm	-0.0006 ppm	0.0003 ppm	0.0010 ppm	0.0052 ppm	0.2020 ppm	0.0038 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	0.0000 ppm	0.0008 ppm	0.0041 ppm	0.2080 ppm	0.0041 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0008 ppm	0.0049 ppm	0.2097 ppm	0.0031 ppm
Concentration RSD	907.4 %	59.6 %	83.2 %	14.8 %	11.9 %	2.0 %	13.3 %

	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	0.0027 ppm	0.0000 ppm	0.0001 ppm	456.7576 ppm	0.0001 ppm	0.0006 ppm	0.0015 ppm
Concentration per Run 1	0.0023 ppm	0.0001 ppm	0.0001 ppm	456.8314 ppm	-0.0002 ppm	0.0007 ppm	0.0013 ppm
Concentration per Run 2	0.0036 ppm	0.0000 ppm	0.0004 ppm	459.9761 ppm	0.0002 ppm	0.0006 ppm	0.0034 ppm
Concentration per Run 3	0.0021 ppm	0.0000 ppm	-0.0001 ppm	453.4652 ppm	0.0005 ppm	0.0004 ppm	-0.0002 ppm
Concentration RSD	30.3 %	158.8 %	218.3 %	0.7 %	241.4 %	32.2 %	119.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 1	0.0010 ppm	0.0006 ppm	-0.0002 ppm	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0002 ppm
Concentration per Run 2	-0.0023 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 3	0.0004 ppm	0.0010 ppm	0.0003 ppm	0.0000 ppm	-0.0002 ppm	-0.0008 ppm	0.0000 ppm
Concentration RSD	596.9 %	177.8 %	286.2 %	30.0 %	23.6 %	379.6 %	242.6 %

	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	88.3183 %	98.1664 %	78.2890 %	82.1322 %	95.0885 %	86.3030 %
Concentration per Run 1	-0.0003 ppm	87.6558 %	97.9157 %	77.2986 %	82.6671 %	95.3455 %	86.2224 %
Concentration per Run 2	0.0000 ppm	88.4173 %	97.5013 %	78.3476 %	82.0817 %	94.2225 %	86.3114 %
Concentration per Run 3	0.0001 ppm	88.8818 %	99.0824 %	79.2209 %	81.6478 %	95.6974 %	86.3753 %
Concentration RSD	321.4 %	0.7 %	0.8 %	1.2 %	0.6 %	0.8 %	0.1 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: XLDR 500PPM FE
Analysis started at: 12/20/2024 10:50:38 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	0.0009 ppm	0.0440 ppm	0.0046 ppm	0.0013 ppm	0.0004 ppm	0.0000 ppm	0.0121 ppm
Concentration per Run 1	0.0007 ppm	0.0445 ppm	0.0045 ppm	0.0011 ppm	0.0004 ppm	0.0000 ppm	0.0137 ppm
Concentration per Run 2	0.0004 ppm	0.0437 ppm	0.0044 ppm	0.0018 ppm	0.0004 ppm	0.0000 ppm	0.0105 ppm
Concentration per Run 3	0.0015 ppm	0.0437 ppm	0.0049 ppm	0.0011 ppm	0.0003 ppm	0.0000 ppm	0.0122 ppm
Concentration RSD	65.1 %	1.1 %	5.9 %	30.1 %	13.4 %	1,301.6 %	13.5 %

	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	0.0005 ppm	-0.0019 ppm	-0.0012 ppm	0.0020 ppm	425.9038 [SIC 500]	-0.0013 ppm	0.0023 ppm
Concentration per Run 1	0.0003 ppm	-0.0022 ppm	-0.0010 ppm	0.0020 ppm	426.5378 ppm	0.0061 ppm	0.0017 ppm
Concentration per Run 2	0.0005 ppm	-0.0016 ppm	-0.0015 ppm	0.0018 ppm	427.4213 ppm	0.0026 ppm	0.0028 ppm
Concentration per Run 3	0.0006 ppm	-0.0019 ppm	-0.0010 ppm	0.0020 ppm	423.7523 ppm	-0.0125 ppm	0.0025 ppm
Concentration RSD	27.4 %	14.3 %	28.1 %	6.2 %	0.4 %	763.2 %	25.3 %

	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	0.0480 ppm	0.0006 ppm	-0.0030 ppm	0.0558 ppm	-0.0015 ppm	-0.0014 ppm	0.0051 ppm
Concentration per Run 1	0.0504 ppm	0.0006 ppm	-0.0031 ppm	0.0606 ppm	-0.0016 ppm	-0.0006 ppm	0.0049 ppm
Concentration per Run 2	0.0477 ppm	0.0005 ppm	-0.0032 ppm	0.0552 ppm	-0.0014 ppm	-0.0022 ppm	0.0069 ppm
Concentration per Run 3	0.0459 ppm	0.0006 ppm	-0.0028 ppm	0.0517 ppm	-0.0015 ppm	-0.0013 ppm	0.0033 ppm
Concentration RSD	4.7 %	10.5 %	5.8 %	8.0 %	7.4 %	56.5 %	36.1 %

	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	-0.0017 ppm	-0.0009 ppm	0.0029 ppm	0.0003 ppm	0.0000 ppm	-0.0011 ppm	-0.0008 ppm
Concentration per Run 1	-0.0023 ppm	0.0005 ppm	0.0029 ppm	0.0003 ppm	0.0000 ppm	-0.0009 ppm	-0.0003 ppm
Concentration per Run 2	-0.0021 ppm	-0.0019 ppm	0.0028 ppm	0.0003 ppm	-0.0001 ppm	-0.0004 ppm	-0.0008 ppm
Concentration per Run 3	-0.0007 ppm	-0.0013 ppm	0.0030 ppm	0.0004 ppm	0.0000 ppm	-0.0019 ppm	-0.0013 ppm
Concentration RSD	52.4 %	141.9 %	3.8 %	15.0 %	64.3 %	73.5 %	64.5 %

	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	-0.0005 ppm	104.8639 %	104.7522 %	86.5080 %	90.2704 %	98.6680 %	90.3340 %
Concentration per Run 1	-0.0004 ppm	104.3325 %	105.1056 %	86.3925 %	90.0897 %	98.8397 %	90.4673 %
Concentration per Run 2	-0.0005 ppm	105.1250 %	104.1972 %	86.7280 %	90.8852 %	98.1885 %	90.7759 %
Concentration per Run 3	-0.0005 ppm	105.1343 %	104.9537 %	86.4036 %	89.8362 %	98.9757 %	89.7589 %
Concentration RSD	10.9 %	0.4 %	0.5 %	0.2 %	0.6 %	0.4 %	0.6 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: LDR 1000PPM Ca pass
Analysis started at: 12/20/2024 10:56:08 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	-0.0007 ppm	0.0242 ppm	0.0011 ppm	0.0006 ppm	0.0009 ppm	0.0000 ppm	914.8881 ppm
Concentration per Run 1	-0.0007 ppm	0.0249 ppm	-0.0001 ppm	0.0008 ppm	0.0009 ppm	0.0000 ppm	913.5935 ppm
Concentration per Run 2	-0.0006 ppm	0.0233 ppm	0.0012 ppm	0.0001 ppm	0.0010 ppm	0.0000 ppm	911.0954 ppm
Concentration per Run 3	-0.0009 ppm	0.0244 ppm	0.0022 ppm	0.0007 ppm	0.0009 ppm	0.0000 ppm	919.9754 ppm
Concentration RSD	17.9 %	3.4 %	101.4 %	68.8 %	4.2 %	306.2 %	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	-0.0005 ppm	0.0000 ppm	0.0003 ppm	0.0013 ppm	0.0169 ppm	0.0574 ppm	0.0198 ppm
Concentration per Run 1	-0.0005 ppm	0.0000 ppm	0.0002 ppm	0.0014 ppm	0.0174 ppm	0.0633 ppm	0.0193 ppm
Concentration per Run 2	-0.0006 ppm	0.0000 ppm	0.0004 ppm	0.0015 ppm	0.0171 ppm	0.0583 ppm	0.0204 ppm
Concentration per Run 3	-0.0005 ppm	0.0001 ppm	0.0004 ppm	0.0011 ppm	0.0163 ppm	0.0505 ppm	0.0196 ppm
Concentration RSD	11.8 %	96.4 %	41.0 %	15.8 %	3.2 %	11.3 %	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	0.0144 ppm	0.0005 ppm	-0.0001 ppm	0.0452 ppm	0.0001 ppm	0.0009 ppm	0.0000 ppm
Concentration per Run 1	0.0151 ppm	0.0005 ppm	0.0002 ppm	0.0454 ppm	-0.0002 ppm	0.0008 ppm	0.0000 ppm
Concentration per Run 2	0.0131 ppm	0.0006 ppm	-0.0001 ppm	0.0446 ppm	0.0002 ppm	0.0010 ppm	0.0001 ppm
Concentration per Run 3	0.0148 ppm	0.0005 ppm	-0.0003 ppm	0.0457 ppm	0.0003 ppm	0.0008 ppm	-0.0002 ppm
Concentration RSD	7.4 %	15.0 %	281.5 %	1.3 %	248.9 %	18.4 %	528.8 %

	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	0.0069 ppm	-0.0002 ppm	0.0020 ppm	-0.0020 ppm	0.0004 ppm	0.0007 ppm
Concentration per Run 1	-0.0001 ppm	0.0074 ppm	0.0003 ppm	0.0021 ppm	-0.0021 ppm	0.0005 ppm	0.0006 ppm
Concentration per Run 2	-0.0012 ppm	0.0056 ppm	-0.0003 ppm	0.0020 ppm	-0.0019 ppm	-0.0002 ppm	0.0008 ppm
Concentration per Run 3	0.0007 ppm	0.0076 ppm	-0.0006 ppm	0.0020 ppm	-0.0019 ppm	0.0009 ppm	0.0008 ppm
Concentration RSD	434.9 %	15.9 %	256.3 %	2.2 %	6.5 %	146.2 %	16.3 %

	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	83.3982 %	93.7168 %	70.6232 %	78.9282 %	92.0288 %	80.9206 %
Concentration per Run 1	0.0018 ppm	81.9836 %	93.7893 %	69.7977 %	78.6086 %	92.4847 %	80.4982 %
Concentration per Run 2	0.0017 ppm	84.0431 %	93.9609 %	70.7876 %	79.4201 %	92.0058 %	81.3216 %
Concentration per Run 3	0.0013 ppm	84.1680 %	93.4001 %	71.2844 %	78.7558 %	91.5957 %	80.9420 %
Concentration RSD	16.0 %	1.5 %	0.3 %	1.1 %	0.5 %	0.5 %	0.5 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: LLOQ 0.005ppm As
Analysis started at: 12/20/2024 11:03:40 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	0.0052 ppm	0.1292 ppm	0.0052 ppm	0.0049 ppm	0.0051 ppm	0.0050 ppm	0.0832 ppm
Concentration per Run 1	0.0051 ppm	0.1286 ppm	0.0056 ppm	0.0053 ppm	0.0052 ppm	0.0051 ppm	0.0839 ppm
Concentration per Run 2	0.0051 ppm	0.1334 ppm	0.0046 ppm	0.0049 ppm	0.0051 ppm	0.0050 ppm	0.0816 ppm
Concentration per Run 3	0.0053 ppm	0.1255 ppm	0.0055 ppm	0.0045 ppm	0.0050 ppm	0.0049 ppm	0.0840 ppm
Recovery Percentage 1	103.364 %	0.000 %	104.110 %	0.000 %	0.000 %	100.203 %	0.000 %
Concentration RSD	1.6 %	3.1 %	10.8 %	8.9 %	2.3 %	1.9 %	1.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0051 ppm	0.0050 ppm	0.0050 ppm	0.0058 ppm	0.1355 ppm	0.2166 ppm	0.0067 ppm
Concentration per Run 1	0.0051 ppm	0.0049 ppm	0.0050 ppm	0.0059 ppm	0.1385 ppm	0.2186 ppm	0.0068 ppm
Concentration per Run 2	0.0051 ppm	0.0050 ppm	0.0050 ppm	0.0057 ppm	0.1345 ppm	0.2225 ppm	0.0068 ppm
Concentration per Run 3	0.0051 ppm	0.0050 ppm	0.0051 ppm	0.0059 ppm	0.1336 ppm	0.2086 ppm	0.0066 ppm
Recovery Percentage 1	102.275 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	0.0 %	1.0 %	1.3 %	2.0 %	1.9 %	3.3 %	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	0.0534 ppm	0.0052 ppm	0.0054 ppm	0.1459 ppm	0.0054 ppm	0.0051 ppm	0.0056 ppm
Concentration per Run 1	0.0533 ppm	0.0053 ppm	0.0052 ppm	0.1488 ppm	0.0053 ppm	0.0058 ppm	0.0053 ppm
Concentration per Run 2	0.0537 ppm	0.0051 ppm	0.0054 ppm	0.1472 ppm	0.0059 ppm	0.0052 ppm	0.0052 ppm
Concentration per Run 3	0.0532 ppm	0.0052 ppm	0.0056 ppm	0.1417 ppm	0.0050 ppm	0.0042 ppm	0.0061 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	0.5 %	1.9 %	4.0 %	2.5 %	9.0 %	15.7 %	8.8 %

	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	0.0039 ppm	0.0496 ppm	0.0058 ppm	0.0052 ppm	0.0049 ppm	0.0046 ppm	0.0050 ppm
Concentration per Run 1	0.0030 ppm	0.0481 ppm	0.0055 ppm	0.0053 ppm	0.0048 ppm	0.0049 ppm	0.0050 ppm
Concentration per Run 2	0.0041 ppm	0.0511 ppm	0.0060 ppm	0.0053 ppm	0.0051 ppm	0.0045 ppm	0.0050 ppm
Concentration per Run 3	0.0047 ppm	0.0496 ppm	0.0060 ppm	0.0051 ppm	0.0048 ppm	0.0045 ppm	0.0050 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	22.0 %	3.1 %	4.3 %	2.7 %	3.2 %	4.2 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0051 ppm	103.0796 %	102.4804 %	99.1798 %	94.7039 %	99.1111 %	96.5058 %
Concentration per Run 1	0.0049 ppm	102.2744 %	100.1193 %	97.9613 %	95.0810 %	95.1960 %	96.2642 %
Concentration per Run 2	0.0054 ppm	102.6943 %	103.7404 %	100.1597 %	94.2690 %	101.5267 %	96.9774 %
Concentration per Run 3	0.0050 ppm	104.2700 %	103.5816 %	99.4183 %	94.7616 %	100.6106 %	96.2759 %
Recovery Percentage 1	102.292 %						
Concentration RSD	4.8 %	1.0 %	2.0 %	1.1 %	0.4 %	3.5 %	0.4 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: SIC LDR 50PPM Ni pass No IECs applied
Analysis started at: 12/20/2024 11:08:10 AM
Rack 1
Vial 4
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	-0.0001 ppm	0.0015 ppm	0.0025 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0034 ppm
Concentration per Run 1	-0.0001 ppm	0.0044 ppm	0.0015 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0020 ppm
Concentration per Run 2	-0.0003 ppm	0.0018 ppm	0.0028 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0036 ppm
Concentration per Run 3	0.0000 ppm	-0.0017 ppm	0.0031 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0046 ppm
Recovery Percentage 1	-2.939 %	1.503 %	49.435 %	0.307 %	0.666 %	-0.138 %	3.380 %
Concentration RSD	96.3 %	202.9 %	33.0 %	472.1 %	32.1 %	151.3 %	39.1 %

	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	0.0067 ppm	0.0000 ppm	0.0005 ppm	0.0000 ppm	0.0226 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0068 ppm	0.0000 ppm	0.0005 ppm	0.0002 ppm	0.0210 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0065 ppm	0.0000 ppm	0.0005 ppm	-0.0001 ppm	0.0271 ppm	0.0005 ppm
Concentration per Run 3	-0.0001 ppm	0.0068 ppm	0.0001 ppm	0.0004 ppm	-0.0001 ppm	0.0195 ppm	0.0010 ppm
Recovery Percentage 1	-0.831 %	67.235 %	0.431 %	4.811 %	-0.008 %	0.902 %	5.282 %
Concentration RSD	249.3 %	2.8 %	216.5 %	7.3 %	4,227.0 %	17.9 %	87.1 %

	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	-0.0011 ppm	0.0001 ppm	-0.0002 ppm	0.0036 ppm	53.1254 [SIC 50]	-0.0008 ppm	-0.0061 ppm
Concentration per Run 1	-0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0035 ppm	54.0528 ppm	-0.0010 ppm	-0.0065 ppm
Concentration per Run 2	0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0045 ppm	52.7386 ppm	-0.0011 ppm	-0.0060 ppm
Concentration per Run 3	-0.0029 ppm	0.0000 ppm	-0.0005 ppm	0.0028 ppm	52.5847 ppm	-0.0003 ppm	-0.0059 ppm
Recovery Percentage 1	-1.072 %	0.550 %	-0.312 %	0.180 %	212,501.420 %	-7.973 %	-12.250 %
Concentration RSD	149.1 %	99.1 %	180.6 %	23.9 %	1.5 %	54.6 %	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	-0.0008 ppm	-0.0020 ppm	-0.0002 ppm	0.0001 ppm	-0.0006 ppm	-0.0007 ppm	0.0004 ppm
Concentration per Run 1	-0.0008 ppm	-0.0019 ppm	0.0002 ppm	0.0000 ppm	-0.0006 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 2	-0.0003 ppm	-0.0008 ppm	-0.0005 ppm	0.0001 ppm	-0.0005 ppm	-0.0013 ppm	0.0005 ppm
Concentration per Run 3	-0.0012 ppm	-0.0032 ppm	-0.0003 ppm	0.0001 ppm	-0.0008 ppm	-0.0004 ppm	0.0003 ppm
Recovery Percentage 1	-7.530 %	-0.393 %	-0.436 %	0.700 %	-6.287 %	-3.565 %	3.906 %
Concentration RSD	60.6 %	59.6 %	165.3 %	84.2 %	24.9 %	75.3 %	27.6 %

	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	99.5175 %	103.1427 %	94.6069 %	93.5365 %	100.8308 %	94.1127 %
Concentration per Run 1	0.0001 ppm	98.0936 %	102.2880 %	94.2827 %	93.2380 %	100.5963 %	94.4016 %
Concentration per Run 2	-0.0001 ppm	100.4570 %	103.1714 %	94.1819 %	94.5491 %	100.7826 %	93.9383 %
Concentration per Run 3	0.0001 ppm	100.0017 %	103.9686 %	95.3561 %	92.8224 %	101.1134 %	93.9983 %
Recovery Percentage 1	1.189 %						
Concentration RSD	238.6 %	1.3 %	0.8 %	0.7 %	1.0 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: CCV
Analysis started at: 12/20/2024 11:14:01 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	0.4912 ppm	0.4684 ppm	0.4622 ppm	0.4906 ppm	0.4806 ppm	0.4982 ppm	0.4883 ppm
Concentration per Run 1	0.4954 ppm	0.4726 ppm	0.4631 ppm	0.4971 ppm	0.4826 ppm	0.5007 ppm	0.4915 ppm
Concentration per Run 2	0.4910 ppm	0.4638 ppm	0.4599 ppm	0.4889 ppm	0.4786 ppm	0.4962 ppm	0.4857 ppm
Concentration per Run 3	0.4872 ppm	0.4687 ppm	0.4636 ppm	0.4859 ppm	0.4807 ppm	0.4977 ppm	0.4876 ppm
Recovery Percentage 1	98.239 %	93.677 %	92.440 %	98.123 %	96.127 %	99.636 %	97.657 %
Concentration RSD	0.8 %	0.9 %	0.4 %	1.2 %	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	0.4859 ppm	0.5057 ppm	0.4879 ppm	0.4936 ppm	0.5043 ppm	5.1232 ppm	0.4918 ppm
Concentration per Run 1	0.4942 ppm	0.5109 ppm	0.4944 ppm	0.4966 ppm	0.5091 ppm	5.1856 ppm	0.4949 ppm
Concentration per Run 2	0.4840 ppm	0.5069 ppm	0.4862 ppm	0.4958 ppm	0.5009 ppm	5.0534 ppm	0.4848 ppm
Concentration per Run 3	0.4795 ppm	0.4993 ppm	0.4832 ppm	0.4884 ppm	0.5029 ppm	5.1306 ppm	0.4957 ppm
Recovery Percentage 1	97.185 %	101.142 %	97.588 %	98.725 %	100.858 %	102.464 %	98.362 %
Concentration RSD	1.5 %	1.2 %	1.2 %	0.9 %	0.8 %	1.3 %	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	0.4922 ppm	0.4798 ppm	0.4982 ppm	9.8605 ppm	0.5072 ppm	0.4807 ppm	0.4999 ppm
Concentration per Run 1	0.4982 ppm	0.4826 ppm	0.4993 ppm	9.8524 ppm	0.5144 ppm	0.4846 ppm	0.5067 ppm
Concentration per Run 2	0.4903 ppm	0.4778 ppm	0.4979 ppm	9.7872 ppm	0.5045 ppm	0.4773 ppm	0.4960 ppm
Concentration per Run 3	0.4882 ppm	0.4790 ppm	0.4975 ppm	9.9420 ppm	0.5026 ppm	0.4803 ppm	0.4970 ppm
Recovery Percentage 1	98.440 %	95.963 %	99.646 %	98.605 %	101.435 %	96.144 %	99.980 %
Concentration RSD	1.1 %	0.5 %	0.2 %	0.8 %	1.3 %	0.8 %	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	0.4663 ppm	5.5401 ppm	0.5151 ppm	0.5121 ppm	0.4907 ppm	0.4891 ppm	0.4863 ppm
Concentration per Run 1	0.4707 ppm	5.5714 ppm	0.5232 ppm	0.5143 ppm	0.4952 ppm	0.4927 ppm	0.4912 ppm
Concentration per Run 2	0.4618 ppm	5.5301 ppm	0.5103 ppm	0.5088 ppm	0.4887 ppm	0.4830 ppm	0.4860 ppm
Concentration per Run 3	0.4664 ppm	5.5190 ppm	0.5119 ppm	0.5133 ppm	0.4881 ppm	0.4916 ppm	0.4816 ppm
Recovery Percentage 1	93.264 %	105.527 %	103.028 %	102.423 %	98.136 %	97.819 %	97.259 %
Concentration RSD	0.9 %	0.5 %	1.4 %	0.6 %	0.8 %	1.1 %	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	0.4946 ppm	104.8490 %	105.1321 %	97.5065 %	92.3781 %	99.4468 %	94.3544 %
Concentration per Run 1	0.5036 ppm	103.5328 %	104.7765 %	97.3031 %	91.9714 %	99.3593 %	94.1837 %
Concentration per Run 2	0.4905 ppm	105.3229 %	105.2178 %	97.5864 %	92.8210 %	99.4273 %	94.6980 %
Concentration per Run 3	0.4897 ppm	105.6912 %	105.4020 %	97.6301 %	92.3418 %	99.5537 %	94.1814 %
Recovery Percentage 1	98.916 %						
Concentration RSD	1.6 %	1.1 %	0.3 %	0.2 %	0.5 %	0.1 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: CCB
Analysis started at: 12/20/2024 11:18:29 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	0.0026 ppm	0.0006 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	-0.0010 ppm
Concentration per Run 1	-0.0001 ppm	0.0032 ppm	0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 2	-0.0003 ppm	0.0015 ppm	0.0014 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0025 ppm
Concentration per Run 3	-0.0002 ppm	0.0031 ppm	0.0001 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm
Recovery Percentage 1	-4.483 %	2.591 %	11.159 %	1.774 %	0.500 %	0.455 %	-1.035 %
Concentration RSD	41.0 %	36.6 %	129.8 %	99.6 %	72.8 %	86.4 %	129.5 %

	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	-0.0002 ppm	0.0000 ppm	0.0005 ppm	0.0004 ppm	0.0190 ppm	0.0008 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0004 ppm	0.0090 ppm	0.0008 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0010 ppm	0.0262 ppm	0.0006 ppm
Concentration per Run 3	0.0001 ppm	-0.0004 ppm	0.0001 ppm	0.0007 ppm	-0.0002 ppm	0.0217 ppm	0.0009 ppm
Recovery Percentage 1	2.240 %	-1.523 %	0.456 %	4.963 %	0.747 %	0.759 %	7.610 %
Concentration RSD	74.5 %	127.0 %	179.2 %	44.2 %	158.9 %	47.1 %	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	-0.0016 ppm	0.0000 ppm	0.0021 ppm	-0.0031 ppm	0.0001 ppm	0.0004 ppm	0.0007 ppm
Concentration per Run 1	-0.0020 ppm	0.0000 ppm	0.0020 ppm	-0.0048 ppm	-0.0004 ppm	-0.0005 ppm	0.0002 ppm
Concentration per Run 2	-0.0009 ppm	-0.0001 ppm	0.0022 ppm	-0.0035 ppm	0.0005 ppm	0.0007 ppm	0.0013 ppm
Concentration per Run 3	-0.0019 ppm	0.0001 ppm	0.0021 ppm	-0.0010 ppm	0.0001 ppm	0.0010 ppm	0.0005 ppm
Recovery Percentage 1	-1.595 %	0.236 %	4.258 %	-0.156 %	0.247 %	3.994 %	1.378 %
Concentration RSD	36.9 %	386.2 %	4.5 %	61.5 %	665.2 %	197.7 %	80.1 %

	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	-0.0009 ppm	-0.0016 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0001 ppm
Concentration per Run 1	-0.0004 ppm	-0.0016 ppm	-0.0003 ppm	0.0000 ppm	-0.0001 ppm	0.0007 ppm	0.0000 ppm
Concentration per Run 2	-0.0015 ppm	-0.0013 ppm	0.0007 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 3	-0.0009 ppm	-0.0017 ppm	0.0005 ppm	0.0000 ppm	-0.0001 ppm	0.0009 ppm	0.0000 ppm
Recovery Percentage 1	-9.389 %	-0.310 %	0.638 %	0.139 %	-0.514 %	2.448 %	0.969 %
Concentration RSD	57.5 %	12.0 %	158.3 %	85.3 %	173.4 %	106.8 %	145.6 %

	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	-0.0005 ppm	98.8883 %	102.1624 %	96.1398 %	94.8846 %	101.0394 %	96.3612 %
Concentration per Run 1	-0.0004 ppm	97.7186 %	102.3295 %	95.4856 %	94.5874 %	101.6948 %	96.1639 %
Concentration per Run 2	-0.0006 ppm	99.0012 %	101.9860 %	97.1160 %	95.2464 %	100.6440 %	97.1215 %
Concentration per Run 3	-0.0005 ppm	99.9450 %	102.1717 %	95.8178 %	94.8198 %	100.7794 %	95.7982 %
Recovery Percentage 1	-9.930 %						
Concentration RSD	23.7 %	1.1 %	0.2 %	0.9 %	0.4 %	0.6 %	0.7 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473538-01 WG2010403
Analysis started at: 12/20/2024 11:27:28 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	-0.0002 ppm	0.0022 ppm	0.0000 ppm	0.0221 ppm	0.0270 ppm	0.0000 ppm	33.2992 ppm
Concentration per Run 1	-0.0002 ppm	0.0001 ppm	-0.0006 ppm	0.0236 ppm	0.0271 ppm	0.0000 ppm	33.6356 ppm
Concentration per Run 2	-0.0001 ppm	0.0025 ppm	-0.0001 ppm	0.0220 ppm	0.0271 ppm	0.0000 ppm	33.2537 ppm
Concentration per Run 3	-0.0004 ppm	0.0040 ppm	0.0006 ppm	0.0208 ppm	0.0268 ppm	0.0000 ppm	33.0083 ppm
Concentration RSD	61.5 %	90.5 %	2,807.2 %	6.5 %	0.6 %	585.5 %	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	-0.0005 ppm	0.0005 ppm	0.0035 ppm	0.0058 ppm	1.4455 ppm	0.0009 ppm
Concentration per Run 1	-0.0001 ppm	-0.0011 ppm	0.0005 ppm	0.0035 ppm	0.0052 ppm	1.4527 ppm	0.0012 ppm
Concentration per Run 2	-0.0002 ppm	-0.0003 ppm	0.0002 ppm	0.0039 ppm	0.0057 ppm	1.4546 ppm	0.0007 ppm
Concentration per Run 3	-0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0032 ppm	0.0064 ppm	1.4292 ppm	0.0007 ppm
Concentration RSD	9.1 %	138.2 %	39.4 %	9.8 %	9.7 %	1.0 %	35.7 %

	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	7.6126 ppm	0.0006 ppm	0.0002 ppm	3.4755 ppm	0.0007 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run 1	7.7211 ppm	0.0006 ppm	0.0002 ppm	3.4702 ppm	0.0005 ppm	0.0007 ppm	-0.0020 ppm
Concentration per Run 2	7.6019 ppm	0.0007 ppm	0.0001 ppm	3.4977 ppm	0.0006 ppm	0.0004 ppm	0.0006 ppm
Concentration per Run 3	7.5147 ppm	0.0005 ppm	0.0002 ppm	3.4587 ppm	0.0010 ppm	-0.0002 ppm	0.0017 ppm
Concentration RSD	1.4 %	10.3 %	24.9 %	0.6 %	42.1 %	162.9 %	1,989.0 %

	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	0.0005 ppm	4.3643 ppm	-0.0002 ppm	0.1454 ppm	-0.0001 ppm	-0.0006 ppm	0.0003 ppm
Concentration per Run 1	-0.0013 ppm	4.4242 ppm	0.0000 ppm	0.1463 ppm	0.0000 ppm	-0.0007 ppm	0.0004 ppm
Concentration per Run 2	0.0015 ppm	4.3826 ppm	-0.0006 ppm	0.1452 ppm	-0.0002 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 3	0.0014 ppm	4.2862 ppm	0.0001 ppm	0.1446 ppm	-0.0002 ppm	-0.0006 ppm	0.0002 ppm
Concentration RSD	296.1 %	1.6 %	243.8 %	0.6 %	68.3 %	26.1 %	25.5 %

	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	0.0042 ppm	96.4440 %	101.2203 %	90.9245 %	93.8370 %	101.7087 %	94.5579 %
Concentration per Run 1	0.0042 ppm	95.4122 %	100.1717 %	90.3302 %	93.5968 %	101.5161 %	94.8801 %
Concentration per Run 2	0.0043 ppm	96.5808 %	101.0211 %	90.9871 %	94.0195 %	101.2754 %	94.2958 %
Concentration per Run 3	0.0040 ppm	97.3391 %	102.4681 %	91.4562 %	93.8947 %	102.3346 %	94.4978 %
Concentration RSD	4.4 %	1.0 %	1.1 %	0.6 %	0.2 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473538-02 WG2010403
Analysis started at: 12/20/2024 11:32:00 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	-0.0001 ppm	0.0027 ppm	0.0010 ppm	0.0210 ppm	0.0474 ppm	0.0000 ppm	15.6134 ppm
Concentration per Run 1	0.0000 ppm	0.0087 ppm	0.0010 ppm	0.0213 ppm	0.0476 ppm	0.0000 ppm	15.6378 ppm
Concentration per Run 2	-0.0001 ppm	-0.0042 ppm	0.0010 ppm	0.0205 ppm	0.0474 ppm	0.0000 ppm	15.7033 ppm
Concentration per Run 3	-0.0002 ppm	0.0037 ppm	0.0011 ppm	0.0211 ppm	0.0472 ppm	0.0000 ppm	15.4992 ppm
Concentration RSD	121.9 %	236.4 %	7.8 %	2.0 %	0.5 %	1,303.8 %	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	0.0000 ppm	-0.0002 ppm	0.0013 ppm	0.0009 ppm	0.0053 ppm	1.3712 ppm	0.0028 ppm
Concentration per Run 1	-0.0001 ppm	-0.0004 ppm	0.0014 ppm	0.0010 ppm	0.0049 ppm	1.3904 ppm	0.0029 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0011 ppm	0.0007 ppm	0.0050 ppm	1.3534 ppm	0.0027 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0013 ppm	0.0009 ppm	0.0059 ppm	1.3697 ppm	0.0029 ppm
Concentration RSD	114.6 %	133.8 %	9.1 %	20.6 %	9.8 %	1.4 %	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	7.8214 ppm	0.0003 ppm	0.0001 ppm	19.8459 ppm	0.0008 ppm	-0.0001 ppm	-0.0011 ppm
Concentration per Run 1	7.9633 ppm	0.0004 ppm	-0.0001 ppm	19.8605 ppm	0.0009 ppm	-0.0004 ppm	-0.0019 ppm
Concentration per Run 2	7.7481 ppm	0.0004 ppm	0.0000 ppm	19.8030 ppm	0.0010 ppm	0.0000 ppm	-0.0019 ppm
Concentration per Run 3	7.7528 ppm	0.0003 ppm	0.0005 ppm	19.8742 ppm	0.0005 ppm	0.0002 ppm	0.0006 ppm
Concentration RSD	1.6 %	22.7 %	257.9 %	0.2 %	28.6 %	278.5 %	133.5 %

	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	10.5806 ppm	-0.0005 ppm	0.0952 ppm	-0.0003 ppm	-0.0006 ppm	0.0001 ppm
Concentration per Run 1	-0.0010 ppm	10.7575 ppm	-0.0004 ppm	0.0956 ppm	-0.0004 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 2	-0.0018 ppm	10.5056 ppm	-0.0007 ppm	0.0954 ppm	-0.0002 ppm	-0.0008 ppm	0.0002 ppm
Concentration per Run 3	-0.0007 ppm	10.4785 ppm	-0.0004 ppm	0.0945 ppm	-0.0003 ppm	-0.0003 ppm	0.0002 ppm
Concentration RSD	47.4 %	1.5 %	41.9 %	0.6 %	23.8 %	42.4 %	10.2 %

	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	0.0019 ppm	94.8937 %	100.6800 %	89.6073 %	92.6335 %	101.2445 %	94.4955 %
Concentration per Run 1	0.0018 ppm	93.7666 %	100.4237 %	88.8383 %	92.6100 %	101.5072 %	94.7950 %
Concentration per Run 2	0.0021 ppm	95.5274 %	100.3480 %	89.2046 %	93.4225 %	101.1094 %	94.0674 %
Concentration per Run 3	0.0019 ppm	95.3869 %	101.2683 %	90.7790 %	91.8681 %	101.1168 %	94.6242 %
Concentration RSD	8.1 %	1.0 %	0.5 %	1.2 %	0.8 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473538-03 WG2010403
Analysis started at: 12/20/2024 11:36:26 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	-0.0003 ppm	-0.0004 ppm	-0.0009 ppm	0.0280 ppm	0.0165 ppm	0.0000 ppm	14.7341 ppm
Concentration per Run 1	-0.0003 ppm	0.0021 ppm	-0.0022 ppm	0.0284 ppm	0.0165 ppm	0.0000 ppm	14.8434 ppm
Concentration per Run 2	-0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0277 ppm	0.0164 ppm	0.0000 ppm	14.6577 ppm
Concentration per Run 3	-0.0001 ppm	-0.0032 ppm	-0.0006 ppm	0.0280 ppm	0.0165 ppm	0.0000 ppm	14.7012 ppm
Concentration RSD	56.6 %	734.5 %	117.9 %	1.4 %	0.2 %	82.6 %	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	0.0000 ppm	-0.0005 ppm	0.0014 ppm	0.0010 ppm	0.0027 ppm	1.6125 ppm	0.0028 ppm
Concentration per Run 1	0.0000 ppm	-0.0005 ppm	0.0016 ppm	0.0011 ppm	0.0023 ppm	1.6219 ppm	0.0025 ppm
Concentration per Run 2	0.0001 ppm	-0.0004 ppm	0.0014 ppm	0.0009 ppm	0.0034 ppm	1.6008 ppm	0.0031 ppm
Concentration per Run 3	0.0000 ppm	-0.0007 ppm	0.0013 ppm	0.0010 ppm	0.0025 ppm	1.6148 ppm	0.0027 ppm
Concentration RSD	1,535.2 %	25.2 %	10.0 %	9.3 %	21.6 %	0.7 %	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	7.0145 ppm	0.0019 ppm	0.0000 ppm	23.4233 ppm	0.0008 ppm	-0.0001 ppm	0.0017 ppm
Concentration per Run 1	7.1141 ppm	0.0019 ppm	0.0001 ppm	23.1388 ppm	0.0009 ppm	-0.0003 ppm	0.0015 ppm
Concentration per Run 2	7.0647 ppm	0.0020 ppm	-0.0001 ppm	23.6068 ppm	0.0008 ppm	-0.0003 ppm	-0.0003 ppm
Concentration per Run 3	6.8647 ppm	0.0019 ppm	0.0001 ppm	23.5243 ppm	0.0007 ppm	0.0003 ppm	0.0039 ppm
Concentration RSD	1.9 %	1.8 %	262.7 %	1.1 %	13.0 %	482.8 %	123.5 %

	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	9.3373 ppm	-0.0002 ppm	0.0862 ppm	-0.0002 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 1	-0.0023 ppm	9.4514 ppm	-0.0002 ppm	0.0864 ppm	-0.0002 ppm	0.0004 ppm	-0.0001 ppm
Concentration per Run 2	0.0005 ppm	9.3912 ppm	-0.0004 ppm	0.0860 ppm	-0.0001 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 3	-0.0022 ppm	9.1693 ppm	-0.0002 ppm	0.0862 ppm	-0.0003 ppm	0.0005 ppm	0.0000 ppm
Concentration RSD	118.9 %	1.6 %	40.4 %	0.3 %	56.7 %	24.8 %	165.1 %

	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	94.3027 %	100.1598 %	88.7301 %	92.2815 %	100.5919 %	93.6466 %
Concentration per Run 1	0.0024 ppm	93.1857 %	99.0425 %	87.2704 %	92.0471 %	100.3739 %	93.0849 %
Concentration per Run 2	0.0027 ppm	94.1811 %	101.0803 %	89.1582 %	92.0083 %	100.8442 %	94.2359 %
Concentration per Run 3	0.0027 ppm	95.5414 %	100.3565 %	89.7617 %	92.7890 %	100.5577 %	93.6189 %
Concentration RSD	5.4 %	1.3 %	1.0 %	1.5 %	0.5 %	0.2 %	0.6 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473538-04 WG2010403
Analysis started at: 12/20/2024 11:40:52 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	-0.0001 ppm	0.0071 ppm	0.0002 ppm	0.0073 ppm	0.0337 ppm	0.0000 ppm	5.5242 ppm
Concentration per Run 1	0.0000 ppm	0.0065 ppm	0.0007 ppm	0.0072 ppm	0.0337 ppm	0.0000 ppm	5.5507 ppm
Concentration per Run 2	-0.0002 ppm	0.0054 ppm	-0.0001 ppm	0.0081 ppm	0.0338 ppm	0.0000 ppm	5.5595 ppm
Concentration per Run 3	0.0000 ppm	0.0094 ppm	0.0000 ppm	0.0065 ppm	0.0334 ppm	0.0000 ppm	5.4625 ppm
Concentration RSD	174.7 %	29.0 %	199.1 %	11.3 %	0.6 %	195.5 %	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	0.0000 ppm	-0.0002 ppm	0.0004 ppm	0.0036 ppm	0.0079 ppm	1.2049 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0035 ppm	0.0071 ppm	1.1984 ppm	0.0008 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	0.0006 ppm	0.0035 ppm	0.0075 ppm	1.2127 ppm	0.0004 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0038 ppm	0.0091 ppm	1.2036 ppm	0.0004 ppm
Concentration RSD	275.5 %	58.0 %	48.9 %	5.1 %	13.5 %	0.6 %	47.3 %

	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	1.8936 ppm	0.0047 ppm	-0.0001 ppm	4.8356 ppm	0.0009 ppm	0.0006 ppm	0.0005 ppm
Concentration per Run 1	1.9149 ppm	0.0048 ppm	-0.0003 ppm	4.8298 ppm	0.0007 ppm	0.0008 ppm	-0.0002 ppm
Concentration per Run 2	1.8858 ppm	0.0048 ppm	-0.0001 ppm	4.8556 ppm	0.0006 ppm	0.0015 ppm	0.0012 ppm
Concentration per Run 3	1.8800 ppm	0.0046 ppm	0.0001 ppm	4.8213 ppm	0.0014 ppm	-0.0004 ppm	0.0004 ppm
Concentration RSD	1.0 %	2.6 %	177.8 %	0.4 %	44.3 %	152.6 %	148.2 %

	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	-0.0008 ppm	5.2558 ppm	0.0001 ppm	0.0246 ppm	-0.0001 ppm	-0.0003 ppm	0.0002 ppm
Concentration per Run 1	-0.0011 ppm	5.2943 ppm	-0.0007 ppm	0.0247 ppm	-0.0001 ppm	-0.0016 ppm	0.0003 ppm
Concentration per Run 2	-0.0021 ppm	5.2322 ppm	0.0004 ppm	0.0247 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 3	0.0008 ppm	5.2409 ppm	0.0004 ppm	0.0244 ppm	-0.0002 ppm	0.0006 ppm	0.0002 ppm
Concentration RSD	183.1 %	0.6 %	940.4 %	0.7 %	15.8 %	374.7 %	66.0 %

	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	0.0116 ppm	96.0696 %	101.0697 %	92.2066 %	94.0351 %	101.8796 %	95.4680 %
Concentration per Run 1	0.0116 ppm	95.3964 %	100.7387 %	91.1333 %	94.3251 %	101.8712 %	95.3274 %
Concentration per Run 2	0.0115 ppm	96.3297 %	100.4924 %	92.5360 %	94.4287 %	101.7437 %	95.5068 %
Concentration per Run 3	0.0117 ppm	96.4828 %	101.9779 %	92.9507 %	93.3516 %	102.0241 %	95.5697 %
Concentration RSD	0.9 %	0.6 %	0.8 %	1.0 %	0.6 %	0.1 %	0.1 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473538-05 WG2010403
Analysis started at: 12/20/2024 11:45:19 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	-0.0002 ppm	0.0051 ppm	0.0005 ppm	0.0088 ppm	0.0052 ppm	0.0000 ppm	19.6613 ppm
Concentration per Run 1	-0.0003 ppm	0.0059 ppm	0.0000 ppm	0.0083 ppm	0.0053 ppm	0.0000 ppm	19.8115 ppm
Concentration per Run 2	-0.0002 ppm	0.0058 ppm	0.0013 ppm	0.0091 ppm	0.0052 ppm	0.0000 ppm	19.6579 ppm
Concentration per Run 3	-0.0001 ppm	0.0036 ppm	0.0003 ppm	0.0089 ppm	0.0051 ppm	0.0000 ppm	19.5144 ppm
Concentration RSD	62.6 %	25.5 %	139.7 %	4.6 %	1.8 %	93.9 %	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	-0.0003 ppm	-0.0001 ppm	0.0008 ppm	0.0629 ppm	0.8105 ppm	0.0019 ppm
Concentration per Run 1	-0.0002 ppm	0.0000 ppm	-0.0002 ppm	0.0009 ppm	0.0637 ppm	0.8193 ppm	0.0018 ppm
Concentration per Run 2	-0.0001 ppm	-0.0005 ppm	0.0000 ppm	0.0007 ppm	0.0627 ppm	0.8134 ppm	0.0018 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0000 ppm	0.0009 ppm	0.0622 ppm	0.7988 ppm	0.0020 ppm
Concentration RSD	110.1 %	97.1 %	158.9 %	14.4 %	1.2 %	1.3 %	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	2.8214 ppm	0.0229 ppm	0.0003 ppm	6.4211 ppm	0.0001 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 1	2.8439 ppm	0.0228 ppm	0.0001 ppm	6.4619 ppm	0.0004 ppm	-0.0004 ppm	-0.0003 ppm
Concentration per Run 2	2.8248 ppm	0.0229 ppm	0.0004 ppm	6.4918 ppm	0.0001 ppm	0.0002 ppm	0.0009 ppm
Concentration per Run 3	2.7954 ppm	0.0230 ppm	0.0004 ppm	6.3098 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.9 %	0.3 %	56.5 %	1.5 %	398.4 %	570.5 %	378.1 %

	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	12.0986 ppm	-0.0002 ppm	0.1343 ppm	-0.0002 ppm	-0.0004 ppm	0.0016 ppm
Concentration per Run 1	-0.0013 ppm	12.2267 ppm	0.0000 ppm	0.1349 ppm	-0.0002 ppm	-0.0002 ppm	0.0016 ppm
Concentration per Run 2	0.0017 ppm	12.0783 ppm	-0.0001 ppm	0.1346 ppm	-0.0003 ppm	-0.0008 ppm	0.0016 ppm
Concentration per Run 3	-0.0004 ppm	11.9906 ppm	-0.0004 ppm	0.1334 ppm	-0.0003 ppm	-0.0002 ppm	0.0016 ppm
Concentration RSD	334,088.1 %	1.0 %	130.5 %	0.6 %	29.5 %	96.7 %	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	0.0005 ppm	94.3822 %	100.2383 %	89.9445 %	92.7542 %	100.6563 %	94.4230 %
Concentration per Run 1	0.0006 ppm	93.5654 %	99.4799 %	88.9667 %	92.9672 %	100.2672 %	94.2451 %
Concentration per Run 2	0.0003 ppm	94.3082 %	100.5030 %	89.8869 %	92.8751 %	100.7625 %	94.5758 %
Concentration per Run 3	0.0007 ppm	95.2731 %	100.7320 %	90.9799 %	92.4202 %	100.9393 %	94.4480 %
Concentration RSD	33.4 %	0.9 %	0.7 %	1.1 %	0.3 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473270-01 WG2010529
Analysis started at: 12/20/2024 11:49:42 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	0.0000 ppm	0.0452 ppm	0.0020 ppm	0.0059 ppm	0.0524 ppm	0.0000 ppm	30.0236 ppm
Concentration per Run 1	-0.0003 ppm	0.0465 ppm	0.0026 ppm	0.0059 ppm	0.0524 ppm	0.0000 ppm	29.9997 ppm
Concentration per Run 2	-0.0001 ppm	0.0473 ppm	0.0024 ppm	0.0067 ppm	0.0521 ppm	0.0000 ppm	29.9833 ppm
Concentration per Run 3	0.0002 ppm	0.0417 ppm	0.0012 ppm	0.0053 ppm	0.0527 ppm	0.0000 ppm	30.0878 ppm
Concentration RSD	485.2 %	6.7 %	37.3 %	11.8 %	0.6 %	59.7 %	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	0.0006 ppm	0.0006 ppm	0.0643 ppm	0.0128 ppm	0.3702 ppm	0.0080 ppm
Concentration per Run 1	0.0005 ppm	0.0008 ppm	0.0007 ppm	0.0646 ppm	0.0133 ppm	0.3740 ppm	0.0084 ppm
Concentration per Run 2	0.0005 ppm	0.0008 ppm	0.0004 ppm	0.0641 ppm	0.0112 ppm	0.3715 ppm	0.0076 ppm
Concentration per Run 3	0.0004 ppm	0.0003 ppm	0.0007 ppm	0.0642 ppm	0.0137 ppm	0.3650 ppm	0.0082 ppm
Concentration RSD	15.3 %	51.3 %	32.3 %	0.4 %	10.6 %	1.3 %	5.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.3969 ppm	0.0884 ppm	0.0001 ppm	139.7770 ppm	0.0012 ppm	0.0587 ppm	0.0028 ppm
Concentration per Run 1	0.4028 ppm	0.0887 ppm	-0.0001 ppm	139.0526 ppm	0.0011 ppm	0.0585 ppm	0.0034 ppm
Concentration per Run 2	0.3957 ppm	0.0877 ppm	0.0003 ppm	139.9853 ppm	0.0012 ppm	0.0597 ppm	0.0018 ppm
Concentration per Run 3	0.3922 ppm	0.0888 ppm	0.0001 ppm	140.2932 ppm	0.0013 ppm	0.0578 ppm	0.0031 ppm
Concentration RSD	1.4 %	0.7 %	250.9 %	0.5 %	10.1 %	1.6 %	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	0.0017 ppm	0.8705 ppm	0.0007 ppm	0.0681 ppm	0.0003 ppm	-0.0022 ppm	0.0004 ppm
Concentration per Run 1	0.0039 ppm	0.8789 ppm	0.0008 ppm	0.0680 ppm	0.0003 ppm	-0.0031 ppm	0.0006 ppm
Concentration per Run 2	0.0005 ppm	0.8649 ppm	0.0005 ppm	0.0678 ppm	0.0003 ppm	-0.0017 ppm	0.0003 ppm
Concentration per Run 3	0.0006 ppm	0.8676 ppm	0.0008 ppm	0.0684 ppm	0.0003 ppm	-0.0019 ppm	0.0005 ppm
Concentration RSD	115.6 %	0.9 %	20.8 %	0.5 %	13.1 %	35.6 %	38.4 %

	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	0.1521 ppm	100.3503 %	101.8432 %	86.0011 %	85.5197 %	95.6122 %	87.6028 %
Concentration per Run 1	0.1552 ppm	99.1649 %	101.7943 %	85.8704 %	84.9936 %	95.5171 %	87.4632 %
Concentration per Run 2	0.1509 ppm	100.9079 %	102.2350 %	85.6227 %	85.9339 %	96.2444 %	87.3764 %
Concentration per Run 3	0.1503 ppm	100.9780 %	101.5004 %	86.5102 %	85.6317 %	95.0751 %	87.9687 %
Concentration RSD	1.8 %	1.0 %	0.4 %	0.5 %	0.6 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473270-02 WG2010529
Analysis started at: 12/20/2024 11:54:04 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	-0.0002 ppm	0.0440 ppm	0.0020 ppm	0.0046 ppm	0.0663 ppm	0.0000 ppm	28.4416 ppm
Concentration per Run 1	-0.0002 ppm	0.0419 ppm	0.0039 ppm	0.0054 ppm	0.0664 ppm	0.0000 ppm	28.6224 ppm
Concentration per Run 2	-0.0002 ppm	0.0465 ppm	0.0011 ppm	0.0041 ppm	0.0666 ppm	0.0000 ppm	28.4271 ppm
Concentration per Run 3	-0.0002 ppm	0.0435 ppm	0.0009 ppm	0.0044 ppm	0.0659 ppm	0.0000 ppm	28.2753 ppm
Concentration RSD	6.9 %	5.2 %	82.2 %	15.1 %	0.5 %	36.8 %	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	0.0018 ppm	0.0008 ppm	0.0061 ppm	0.0099 ppm	0.4607 ppm	0.0073 ppm
Concentration per Run 1	0.0003 ppm	0.0018 ppm	0.0008 ppm	0.0062 ppm	0.0099 ppm	0.4710 ppm	0.0077 ppm
Concentration per Run 2	0.0003 ppm	0.0018 ppm	0.0009 ppm	0.0060 ppm	0.0095 ppm	0.4703 ppm	0.0072 ppm
Concentration per Run 3	0.0003 ppm	0.0016 ppm	0.0007 ppm	0.0060 ppm	0.0104 ppm	0.4409 ppm	0.0070 ppm
Concentration RSD	12.9 %	8.4 %	11.9 %	1.5 %	4.8 %	3.7 %	5.0 %

	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	0.4863 ppm	0.1383 ppm	0.0001 ppm	138.8840 ppm	0.0013 ppm	0.0869 ppm	0.0028 ppm
Concentration per Run 1	0.4938 ppm	0.1391 ppm	0.0004 ppm	138.0554 ppm	0.0012 ppm	0.0876 ppm	0.0019 ppm
Concentration per Run 2	0.4827 ppm	0.1387 ppm	-0.0002 ppm	139.0760 ppm	0.0012 ppm	0.0870 ppm	0.0027 ppm
Concentration per Run 3	0.4824 ppm	0.1371 ppm	0.0000 ppm	139.5207 ppm	0.0015 ppm	0.0862 ppm	0.0039 ppm
Concentration RSD	1.3 %	0.8 %	508.5 %	0.5 %	11.2 %	0.8 %	36.2 %

	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	0.7543 ppm	0.0014 ppm	0.0612 ppm	0.0001 ppm	-0.0021 ppm	0.0002 ppm
Concentration per Run 1	-0.0001 ppm	0.7628 ppm	0.0020 ppm	0.0612 ppm	0.0003 ppm	-0.0023 ppm	0.0003 ppm
Concentration per Run 2	0.0011 ppm	0.7473 ppm	0.0008 ppm	0.0615 ppm	0.0000 ppm	-0.0017 ppm	0.0003 ppm
Concentration per Run 3	0.0002 ppm	0.7528 ppm	0.0015 ppm	0.0609 ppm	0.0001 ppm	-0.0022 ppm	0.0001 ppm
Concentration RSD	166.8 %	1.0 %	40.4 %	0.5 %	122.0 %	14.6 %	40.3 %

	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	0.1073 ppm	100.0994 %	102.6546 %	86.2331 %	85.5706 %	96.0965 %	88.0240 %
Concentration per Run 1	0.1084 ppm	99.3110 %	102.0611 %	85.8107 %	85.2522 %	95.8692 %	87.8040 %
Concentration per Run 2	0.1063 ppm	100.0820 %	102.2301 %	86.4043 %	85.4703 %	95.8550 %	88.1219 %
Concentration per Run 3	0.1073 ppm	100.9053 %	103.6726 %	86.4844 %	85.9891 %	96.5654 %	88.1459 %
Concentration RSD	1.0 %	0.8 %	0.9 %	0.4 %	0.4 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473270-03 WG2010529
Analysis started at: 12/20/2024 11:58:27 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	-0.0001 ppm	0.0845 ppm	0.0011 ppm	0.0050 ppm	0.0639 ppm	0.0000 ppm	17.8379 ppm
Concentration per Run 1	-0.0001 ppm	0.0829 ppm	0.0014 ppm	0.0044 ppm	0.0635 ppm	0.0000 ppm	17.9038 ppm
Concentration per Run 2	-0.0002 ppm	0.0851 ppm	0.0003 ppm	0.0050 ppm	0.0644 ppm	0.0001 ppm	17.8013 ppm
Concentration per Run 3	0.0002 ppm	0.0855 ppm	0.0015 ppm	0.0057 ppm	0.0637 ppm	0.0000 ppm	17.8086 ppm
Concentration RSD	396.3 %	1.6 %	59.9 %	12.3 %	0.8 %	37.9 %	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	0.0027 ppm	0.0004 ppm	0.0229 ppm	0.1278 ppm	0.3933 ppm	0.0053 ppm
Concentration per Run 1	0.0002 ppm	0.0025 ppm	0.0002 ppm	0.0228 ppm	0.1298 ppm	0.3840 ppm	0.0059 ppm
Concentration per Run 2	0.0002 ppm	0.0027 ppm	0.0004 ppm	0.0227 ppm	0.1262 ppm	0.4059 ppm	0.0053 ppm
Concentration per Run 3	0.0003 ppm	0.0029 ppm	0.0006 ppm	0.0232 ppm	0.1275 ppm	0.3900 ppm	0.0048 ppm
Concentration RSD	23.8 %	8.3 %	49.7 %	1.2 %	1.4 %	2.9 %	10.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.3851 ppm	0.3576 ppm	0.0000 ppm	138.3255 ppm	0.0021 ppm	0.0427 ppm	0.0021 ppm
Concentration per Run 1	0.3883 ppm	0.3589 ppm	0.0001 ppm	135.1728 ppm	0.0022 ppm	0.0430 ppm	0.0034 ppm
Concentration per Run 2	0.3822 ppm	0.3578 ppm	-0.0002 ppm	141.6707 ppm	0.0020 ppm	0.0434 ppm	0.0028 ppm
Concentration per Run 3	0.3849 ppm	0.3561 ppm	0.0001 ppm	138.1330 ppm	0.0021 ppm	0.0419 ppm	0.0001 ppm
Concentration RSD	0.8 %	0.4 %	2,550.2 %	2.4 %	4.9 %	1.8 %	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	-0.0008 ppm	1.4218 ppm	0.0007 ppm	0.0481 ppm	-0.0001 ppm	-0.0025 ppm	0.0002 ppm
Concentration per Run 1	-0.0017 ppm	1.4324 ppm	0.0008 ppm	0.0479 ppm	0.0002 ppm	-0.0026 ppm	0.0001 ppm
Concentration per Run 2	0.0001 ppm	1.4095 ppm	0.0006 ppm	0.0484 ppm	-0.0003 ppm	-0.0027 ppm	0.0001 ppm
Concentration per Run 3	-0.0008 ppm	1.4235 ppm	0.0007 ppm	0.0479 ppm	-0.0001 ppm	-0.0022 ppm	0.0002 ppm
Concentration RSD	111.2 %	0.8 %	9.4 %	0.7 %	383.0 %	11.4 %	14.7 %

	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	0.0322 ppm	100.4150 %	103.1324 %	86.6913 %	85.5586 %	96.4736 %	88.4107 %
Concentration per Run 1	0.0324 ppm	99.8230 %	102.2849 %	86.5439 %	85.6234 %	95.7034 %	88.5300 %
Concentration per Run 2	0.0324 ppm	100.7456 %	103.8171 %	86.3193 %	85.9015 %	97.5801 %	87.9186 %
Concentration per Run 3	0.0319 ppm	100.6764 %	103.2953 %	87.2106 %	85.1510 %	96.1373 %	88.7835 %
Concentration RSD	1.0 %	0.5 %	0.8 %	0.5 %	0.4 %	1.0 %	0.5 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473270-04 WG2010529
Analysis started at: 12/20/2024 12:02:50 PM
Rack 1
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0552 ppm	0.0009 ppm	0.0045 ppm	0.0638 ppm	0.0000 ppm	9.9720 ppm
Concentration per Run 1	-0.0001 ppm	0.0588 ppm	0.0009 ppm	0.0049 ppm	0.0639 ppm	0.0000 ppm	9.9512 ppm
Concentration per Run 2	-0.0003 ppm	0.0554 ppm	-0.0009 ppm	0.0049 ppm	0.0636 ppm	0.0000 ppm	9.9902 ppm
Concentration per Run 3	-0.0001 ppm	0.0513 ppm	0.0028 ppm	0.0038 ppm	0.0638 ppm	0.0000 ppm	9.9746 ppm
Concentration RSD	78.7 %	6.8 %	201.8 %	13.6 %	0.2 %	453.8 %	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	0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0012 ppm	0.0124 ppm	0.5488 ppm	0.0053 ppm
Concentration per Run 1	0.0002 ppm	-0.0001 ppm	0.0005 ppm	0.0013 ppm	0.0117 ppm	0.5647 ppm	0.0053 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0007 ppm	0.0012 ppm	0.0133 ppm	0.5299 ppm	0.0056 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0010 ppm	0.0122 ppm	0.5517 ppm	0.0049 ppm
Concentration RSD	39.7 %	266.6 %	26.6 %	13.7 %	6.6 %	3.2 %	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	0.4336 ppm	0.0507 ppm	-0.0003 ppm	135.9598 ppm	-0.0001 ppm	0.0052 ppm	0.0014 ppm
Concentration per Run 1	0.4370 ppm	0.0506 ppm	-0.0002 ppm	135.8816 ppm	0.0000 ppm	0.0054 ppm	0.0000 ppm
Concentration per Run 2	0.4348 ppm	0.0507 ppm	-0.0002 ppm	134.7563 ppm	-0.0005 ppm	0.0054 ppm	0.0012 ppm
Concentration per Run 3	0.4291 ppm	0.0507 ppm	-0.0004 ppm	137.2413 ppm	0.0002 ppm	0.0047 ppm	0.0030 ppm
Concentration RSD	0.9 %	0.2 %	29.1 %	0.9 %	406.6 %	7.1 %	107.6 %

	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	0.6144 ppm	0.0007 ppm	0.0262 ppm	0.0005 ppm	-0.0024 ppm	0.0001 ppm
Concentration per Run 1	0.0032 ppm	0.6120 ppm	0.0002 ppm	0.0263 ppm	0.0006 ppm	-0.0033 ppm	0.0001 ppm
Concentration per Run 2	0.0008 ppm	0.6206 ppm	0.0010 ppm	0.0261 ppm	0.0004 ppm	-0.0026 ppm	0.0001 ppm
Concentration per Run 3	-0.0012 ppm	0.6106 ppm	0.0010 ppm	0.0262 ppm	0.0004 ppm	-0.0014 ppm	0.0001 ppm
Concentration RSD	239.8 %	0.9 %	57.0 %	0.4 %	25.5 %	38.5 %	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	0.0307 ppm	101.3915 %	102.1838 %	86.9771 %	86.1483 %	95.9161 %	88.2053 %
Concentration per Run 1	0.0308 ppm	100.9447 %	102.5095 %	86.6158 %	86.2031 %	96.3399 %	87.9408 %
Concentration per Run 2	0.0310 ppm	101.0282 %	101.9441 %	87.3836 %	85.8140 %	95.6861 %	88.3035 %
Concentration per Run 3	0.0302 ppm	102.2015 %	102.0977 %	86.9317 %	86.4279 %	95.7222 %	88.3716 %
Concentration RSD	1.5 %	0.7 %	0.3 %	0.4 %	0.4 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473303-01 WG2010529
Analysis started at: 12/20/2024 12:07:14 PM
Rack 1
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0248 ppm	0.0004 ppm	0.0036 ppm	0.0460 ppm	0.0000 ppm	2.6013 ppm
Concentration per Run 1	-0.0003 ppm	0.0257 ppm	0.0005 ppm	0.0038 ppm	0.0460 ppm	0.0000 ppm	2.6077 ppm
Concentration per Run 2	0.0000 ppm	0.0243 ppm	0.0005 ppm	0.0036 ppm	0.0459 ppm	0.0000 ppm	2.5902 ppm
Concentration per Run 3	0.0000 ppm	0.0245 ppm	0.0003 ppm	0.0035 ppm	0.0463 ppm	0.0000 ppm	2.6059 ppm
Concentration RSD	133.9 %	3.0 %	24.0 %	4.9 %	0.4 %	223.7 %	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	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0014 ppm	0.0075 ppm	0.4652 ppm	0.0048 ppm
Concentration per Run 1	0.0001 ppm	-0.0004 ppm	0.0002 ppm	0.0014 ppm	0.0077 ppm	0.4771 ppm	0.0047 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0013 ppm	0.0069 ppm	0.4567 ppm	0.0046 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0014 ppm	0.0080 ppm	0.4617 ppm	0.0052 ppm
Concentration RSD	1,252.2 %	193.8 %	98.1 %	5.7 %	7.6 %	2.3 %	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	0.1414 ppm	0.0182 ppm	-0.0004 ppm	135.9089 ppm	0.0000 ppm	0.0368 ppm	-0.0001 ppm
Concentration per Run 1	0.1432 ppm	0.0181 ppm	0.0000 ppm	135.3297 ppm	0.0001 ppm	0.0372 ppm	0.0007 ppm
Concentration per Run 2	0.1405 ppm	0.0183 ppm	-0.0009 ppm	135.4308 ppm	0.0002 ppm	0.0363 ppm	-0.0013 ppm
Concentration per Run 3	0.1404 ppm	0.0183 ppm	-0.0002 ppm	136.9663 ppm	-0.0003 ppm	0.0370 ppm	0.0003 ppm
Concentration RSD	1.1 %	0.4 %	121.9 %	0.7 %	5,173.0 %	1.3 %	1,057.8 %

	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	0.0013 ppm	0.1715 ppm	0.0009 ppm	0.0113 ppm	0.0001 ppm	-0.0014 ppm	0.0001 ppm
Concentration per Run 1	0.0018 ppm	0.1733 ppm	0.0008 ppm	0.0113 ppm	0.0000 ppm	-0.0018 ppm	0.0001 ppm
Concentration per Run 2	0.0025 ppm	0.1716 ppm	0.0012 ppm	0.0113 ppm	0.0002 ppm	-0.0011 ppm	0.0001 ppm
Concentration per Run 3	-0.0003 ppm	0.1695 ppm	0.0008 ppm	0.0113 ppm	0.0002 ppm	-0.0015 ppm	0.0001 ppm
Concentration RSD	110.5 %	1.1 %	27.7 %	0.2 %	125.7 %	25.5 %	22.5 %

	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	0.0152 ppm	100.9736 %	103.0477 %	87.4557 %	86.5973 %	96.6209 %	88.5036 %
Concentration per Run 1	0.0155 ppm	100.0225 %	102.7894 %	87.1185 %	86.4550 %	96.7209 %	88.4133 %
Concentration per Run 2	0.0151 ppm	100.8444 %	103.2384 %	87.3909 %	86.2692 %	96.7111 %	88.4599 %
Concentration per Run 3	0.0151 ppm	102.0538 %	103.1153 %	87.8576 %	87.0678 %	96.4307 %	88.6377 %
Concentration RSD	1.7 %	1.0 %	0.2 %	0.4 %	0.5 %	0.2 %	0.1 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: CCV
Analysis started at: 12/20/2024 12:11:39 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	0.4954 ppm	0.4707 ppm	0.4631 ppm	0.4921 ppm	0.4827 ppm	0.4972 ppm	0.4845 ppm
Concentration per Run 1	0.4991 ppm	0.4763 ppm	0.4634 ppm	0.4964 ppm	0.4834 ppm	0.4982 ppm	0.4848 ppm
Concentration per Run 2	0.4931 ppm	0.4659 ppm	0.4638 ppm	0.4898 ppm	0.4781 ppm	0.4924 ppm	0.4791 ppm
Concentration per Run 3	0.4939 ppm	0.4698 ppm	0.4622 ppm	0.4901 ppm	0.4867 ppm	0.5010 ppm	0.4896 ppm
Recovery Percentage 1	99.075 %	94.137 %	92.630 %	98.424 %	96.544 %	99.439 %	96.896 %
Concentration RSD	0.7 %	1.1 %	0.2 %	0.8 %	0.9 %	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	0.4855 ppm	0.5063 ppm	0.4902 ppm	0.4973 ppm	0.5003 ppm	5.1519 ppm	0.4920 ppm
Concentration per Run 1	0.4909 ppm	0.5113 ppm	0.4942 ppm	0.5027 ppm	0.5007 ppm	5.1703 ppm	0.4942 ppm
Concentration per Run 2	0.4820 ppm	0.5038 ppm	0.4881 ppm	0.4943 ppm	0.4978 ppm	5.1364 ppm	0.4917 ppm
Concentration per Run 3	0.4834 ppm	0.5039 ppm	0.4884 ppm	0.4949 ppm	0.5025 ppm	5.1490 ppm	0.4901 ppm
Recovery Percentage 1	97.092 %	101.270 %	98.047 %	99.460 %	100.062 %	103.038 %	98.401 %
Concentration RSD	1.0 %	0.8 %	0.7 %	0.9 %	0.5 %	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	0.4940 ppm	0.4776 ppm	0.4991 ppm	10.0085 ppm	0.5058 ppm	0.4830 ppm	0.5017 ppm
Concentration per Run 1	0.5017 ppm	0.4776 ppm	0.5002 ppm	10.0813 ppm	0.5103 ppm	0.4830 ppm	0.5069 ppm
Concentration per Run 2	0.4893 ppm	0.4731 ppm	0.4959 ppm	9.9746 ppm	0.5027 ppm	0.4850 ppm	0.4989 ppm
Concentration per Run 3	0.4911 ppm	0.4822 ppm	0.5014 ppm	9.9697 ppm	0.5044 ppm	0.4809 ppm	0.4991 ppm
Recovery Percentage 1	98.808 %	95.527 %	99.830 %	100.085 %	101.164 %	96.597 %	100.334 %
Concentration RSD	1.4 %	1.0 %	0.6 %	0.6 %	0.8 %	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	0.4645 ppm	5.5659 ppm	0.5142 ppm	0.5134 ppm	0.4945 ppm	0.4908 ppm	0.4883 ppm
Concentration per Run 1	0.4648 ppm	5.6020 ppm	0.5164 ppm	0.5152 ppm	0.4985 ppm	0.4909 ppm	0.4937 ppm
Concentration per Run 2	0.4636 ppm	5.5396 ppm	0.5127 ppm	0.5092 ppm	0.4928 ppm	0.4927 ppm	0.4863 ppm
Concentration per Run 3	0.4651 ppm	5.5559 ppm	0.5134 ppm	0.5159 ppm	0.4923 ppm	0.4890 ppm	0.4849 ppm
Recovery Percentage 1	92.895 %	106.016 %	102.833 %	102.684 %	98.908 %	98.170 %	97.661 %
Concentration RSD	0.2 %	0.6 %	0.4 %	0.7 %	0.7 %	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	0.4927 ppm	104.7323 %	105.7699 %	96.9039 %	91.8653 %	99.8430 %	93.9706 %
Concentration per Run 1	0.4961 ppm	103.8144 %	105.9795 %	96.7912 %	92.0454 %	99.8734 %	94.3953 %
Concentration per Run 2	0.4917 ppm	105.0011 %	106.4917 %	96.5452 %	91.9581 %	100.3849 %	93.6542 %
Concentration per Run 3	0.4902 ppm	105.3814 %	104.8384 %	97.3755 %	91.5925 %	99.2707 %	93.8622 %
Recovery Percentage 1	98.534 %						
Concentration RSD	0.6 %	0.8 %	0.8 %	0.4 %	0.3 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: CCB
Analysis started at: 12/20/2024 12:16:03 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	0.0012 ppm	0.0003 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0010 ppm
Concentration per Run 1	-0.0003 ppm	0.0006 ppm	-0.0001 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0031 ppm
Concentration per Run 2	-0.0002 ppm	0.0040 ppm	0.0007 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 3	0.0000 ppm	-0.0010 ppm	0.0004 ppm	0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0008 ppm
Recovery Percentage 1	-3.644 %	1.202 %	6.600 %	0.727 %	0.946 %	0.619 %	-0.983 %
Concentration RSD	88.2 %	214.7 %	119.1 %	248.1 %	31.0 %	100.6 %	197.7 %

	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	0.0000 ppm	0.0006 ppm	-0.0005 ppm	0.0202 ppm	0.0006 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0007 ppm	-0.0010 ppm	0.0214 ppm	0.0006 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0006 ppm	0.0001 ppm	0.0225 ppm	0.0009 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	0.0004 ppm	-0.0006 ppm	0.0167 ppm	0.0002 ppm
Recovery Percentage 1	2.117 %	-1.465 %	0.054 %	5.815 %	-1.002 %	0.808 %	5.930 %
Concentration RSD	62.6 %	2.4 %	4,984.1 %	26.0 %	112.5 %	15.3 %	56.0 %

	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	-0.0014 ppm	0.0001 ppm	0.0022 ppm	0.0043 ppm	0.0000 ppm	0.0002 ppm	0.0007 ppm
Concentration per Run 1	-0.0007 ppm	0.0001 ppm	0.0023 ppm	0.0042 ppm	0.0000 ppm	0.0008 ppm	-0.0005 ppm
Concentration per Run 2	-0.0016 ppm	0.0001 ppm	0.0021 ppm	0.0043 ppm	0.0001 ppm	-0.0003 ppm	0.0030 ppm
Concentration per Run 3	-0.0019 ppm	0.0001 ppm	0.0022 ppm	0.0045 ppm	-0.0003 ppm	0.0000 ppm	-0.0004 ppm
Recovery Percentage 1	-1.373 %	1.048 %	4.407 %	0.216 %	-0.191 %	1.878 %	1.403 %
Concentration RSD	46.7 %	33.0 %	3.4 %	4.4 %	413.8 %	298.9 %	284.3 %

	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	-0.0022 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	-0.0015 ppm	-0.0002 ppm	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run 2	-0.0011 ppm	-0.0023 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0007 ppm	0.0001 ppm
Concentration per Run 3	0.0005 ppm	-0.0027 ppm	0.0010 ppm	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0000 ppm
Recovery Percentage 1	-1.892 %	-0.434 %	0.411 %	0.383 %	-1.119 %	0.885 %	0.850 %
Concentration RSD	433.8 %	29.4 %	351.7 %	38.4 %	117.0 %	304.6 %	57.2 %

	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	98.1446 %	102.1759 %	95.7298 %	94.1759 %	101.0686 %	96.0345 %
Concentration per Run 1	0.0000 ppm	96.8572 %	101.7387 %	95.5261 %	94.0503 %	100.9619 %	96.3632 %
Concentration per Run 2	-0.0002 ppm	98.3988 %	102.2212 %	94.8863 %	94.2685 %	100.5941 %	95.3005 %
Concentration per Run 3	-0.0004 ppm	99.1778 %	102.5677 %	96.7771 %	94.2091 %	101.6499 %	96.4399 %
Recovery Percentage 1	-3.667 %						
Concentration RSD	96.7 %	1.2 %	0.4 %	1.0 %	0.1 %	0.5 %	0.7 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473303-02 WG2010529
Analysis started at: 12/20/2024 12:23:09 PM
Rack 1
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0251 ppm	0.0012 ppm	0.0051 ppm	0.0708 ppm	0.0000 ppm	6.5526 ppm
Concentration per Run 1	-0.0001 ppm	0.0265 ppm	0.0010 ppm	0.0057 ppm	0.0705 ppm	0.0000 ppm	6.5191 ppm
Concentration per Run 2	-0.0004 ppm	0.0212 ppm	0.0000 ppm	0.0045 ppm	0.0710 ppm	0.0000 ppm	6.5631 ppm
Concentration per Run 3	-0.0001 ppm	0.0276 ppm	0.0027 ppm	0.0052 ppm	0.0710 ppm	0.0000 ppm	6.5755 ppm
Concentration RSD	82.5 %	13.5 %	110.0 %	11.7 %	0.4 %	337.5 %	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	0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0013 ppm	0.0041 ppm	0.6398 ppm	0.0040 ppm
Concentration per Run 1	0.0001 ppm	-0.0005 ppm	0.0000 ppm	0.0012 ppm	0.0044 ppm	0.6459 ppm	0.0038 ppm
Concentration per Run 2	0.0002 ppm	-0.0004 ppm	-0.0001 ppm	0.0013 ppm	0.0038 ppm	0.6274 ppm	0.0039 ppm
Concentration per Run 3	0.0001 ppm	-0.0004 ppm	0.0001 ppm	0.0013 ppm	0.0041 ppm	0.6462 ppm	0.0043 ppm
Concentration RSD	35.4 %	13.3 %	733.8 %	3.9 %	7.6 %	1.7 %	6.9 %

	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	0.2452 ppm	0.0274 ppm	0.0002 ppm	133.6185 ppm	-0.0004 ppm	0.1268 ppm	0.0028 ppm
Concentration per Run 1	0.2466 ppm	0.0273 ppm	0.0001 ppm	131.9679 ppm	-0.0003 ppm	0.1262 ppm	0.0019 ppm
Concentration per Run 2	0.2471 ppm	0.0273 ppm	0.0001 ppm	133.0798 ppm	-0.0004 ppm	0.1272 ppm	0.0031 ppm
Concentration per Run 3	0.2418 ppm	0.0276 ppm	0.0003 ppm	135.8078 ppm	-0.0007 ppm	0.1270 ppm	0.0034 ppm
Concentration RSD	1.2 %	0.6 %	58.8 %	1.5 %	39.0 %	0.4 %	28.2 %

	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	0.4102 ppm	0.0005 ppm	0.0288 ppm	0.0000 ppm	-0.0026 ppm	0.0001 ppm
Concentration per Run 1	0.0031 ppm	0.4110 ppm	0.0006 ppm	0.0286 ppm	0.0000 ppm	-0.0033 ppm	0.0003 ppm
Concentration per Run 2	-0.0004 ppm	0.4133 ppm	0.0010 ppm	0.0289 ppm	-0.0001 ppm	-0.0025 ppm	0.0001 ppm
Concentration per Run 3	0.0009 ppm	0.4063 ppm	-0.0001 ppm	0.0289 ppm	-0.0001 ppm	-0.0020 ppm	-0.0001 ppm
Concentration RSD	151.0 %	0.9 %	110.7 %	0.6 %	156.8 %	25.3 %	156.4 %

	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	0.0297 ppm	101.7019 %	103.2829 %	87.5415 %	86.3547 %	96.7012 %	88.4900 %
Concentration per Run 1	0.0299 ppm	101.2548 %	103.9763 %	87.1210 %	86.1360 %	96.9944 %	88.2224 %
Concentration per Run 2	0.0298 ppm	101.1986 %	102.9884 %	87.9300 %	85.9715 %	96.0353 %	88.4318 %
Concentration per Run 3	0.0294 ppm	102.6524 %	102.8839 %	87.5735 %	86.9566 %	97.0738 %	88.8157 %
Concentration RSD	1.0 %	0.8 %	0.6 %	0.5 %	0.6 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473303-03 WG2010529
Analysis started at: 12/20/2024 12:27:39 PM
Rack 1
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0248 ppm	0.0004 ppm	0.0037 ppm	0.0472 ppm	0.0000 ppm	2.6916 ppm
Concentration per Run 1	0.0000 ppm	0.0239 ppm	0.0003 ppm	0.0037 ppm	0.0474 ppm	0.0000 ppm	2.6904 ppm
Concentration per Run 2	-0.0001 ppm	0.0223 ppm	0.0013 ppm	0.0037 ppm	0.0471 ppm	0.0000 ppm	2.6864 ppm
Concentration per Run 3	-0.0001 ppm	0.0282 ppm	-0.0003 ppm	0.0037 ppm	0.0470 ppm	0.0000 ppm	2.6981 ppm
Concentration RSD	76.2 %	12.2 %	184.8 %	0.9 %	0.5 %	47.2 %	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	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0010 ppm	0.0055 ppm	0.4034 ppm	0.0041 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	0.0002 ppm	0.0012 ppm	0.0058 ppm	0.4109 ppm	0.0042 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0008 ppm	0.0059 ppm	0.4066 ppm	0.0041 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0010 ppm	0.0049 ppm	0.3927 ppm	0.0040 ppm
Concentration RSD	139.6 %	77.6 %	838.8 %	20.6 %	9.8 %	2.4 %	3.2 %

	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	0.1489 ppm	0.0564 ppm	-0.0002 ppm	136.5583 ppm	0.0001 ppm	0.0123 ppm	0.0019 ppm
Concentration per Run 1	0.1508 ppm	0.0563 ppm	-0.0001 ppm	137.0451 ppm	0.0005 ppm	0.0119 ppm	-0.0002 ppm
Concentration per Run 2	0.1482 ppm	0.0563 ppm	0.0000 ppm	136.2218 ppm	0.0001 ppm	0.0122 ppm	0.0046 ppm
Concentration per Run 3	0.1476 ppm	0.0567 ppm	-0.0006 ppm	136.4082 ppm	-0.0004 ppm	0.0127 ppm	0.0014 ppm
Concentration RSD	1.1 %	0.4 %	137.8 %	0.3 %	893.9 %	3.1 %	126.6 %

	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	0.1229 ppm	0.0013 ppm	0.0117 ppm	0.0000 ppm	-0.0019 ppm	0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.1270 ppm	0.0008 ppm	0.0118 ppm	0.0000 ppm	-0.0028 ppm	0.0001 ppm
Concentration per Run 2	-0.0012 ppm	0.1200 ppm	0.0015 ppm	0.0116 ppm	0.0001 ppm	-0.0012 ppm	-0.0001 ppm
Concentration per Run 3	0.0008 ppm	0.1217 ppm	0.0015 ppm	0.0118 ppm	0.0000 ppm	-0.0016 ppm	0.0003 ppm
Concentration RSD	1,070.6 %	2.9 %	29.8 %	0.8 %	238.1 %	44.6 %	179.0 %

	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	0.0133 ppm	101.0880 %	103.3721 %	87.8348 %	86.6852 %	96.7849 %	88.6560 %
Concentration per Run 1	0.0136 ppm	100.0960 %	103.5176 %	87.5655 %	86.1812 %	96.7275 %	88.7744 %
Concentration per Run 2	0.0130 ppm	101.7236 %	103.3955 %	87.7150 %	87.3497 %	97.2640 %	88.5497 %
Concentration per Run 3	0.0133 ppm	101.4443 %	103.2030 %	88.2240 %	86.5249 %	96.3633 %	88.6438 %
Concentration RSD	2.2 %	0.9 %	0.2 %	0.4 %	0.7 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473304-01 WG2010529
Analysis started at: 12/20/2024 12:32:04 PM
Rack 1
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0372 ppm	0.0015 ppm	0.0039 ppm	0.0267 ppm	0.0000 ppm	13.2761 ppm
Concentration per Run 1	0.0000 ppm	0.0375 ppm	0.0022 ppm	0.0045 ppm	0.0268 ppm	0.0000 ppm	13.2348 ppm
Concentration per Run 2	0.0001 ppm	0.0358 ppm	0.0004 ppm	0.0038 ppm	0.0267 ppm	0.0000 ppm	13.3526 ppm
Concentration per Run 3	0.0000 ppm	0.0384 ppm	0.0018 ppm	0.0034 ppm	0.0266 ppm	0.0000 ppm	13.2410 ppm
Concentration RSD	127.6 %	3.5 %	62.6 %	15.2 %	0.4 %	8.1 %	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	0.0000 ppm	0.0005 ppm	0.0000 ppm	0.0043 ppm	0.0100 ppm	0.5514 ppm	0.0050 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	0.0000 ppm	0.0043 ppm	0.0100 ppm	0.5513 ppm	0.0058 ppm
Concentration per Run 2	0.0000 ppm	0.0006 ppm	0.0000 ppm	0.0045 ppm	0.0102 ppm	0.5417 ppm	0.0045 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0041 ppm	0.0099 ppm	0.5612 ppm	0.0047 ppm
Concentration RSD	51.0 %	56.1 %	382.0 %	4.8 %	1.6 %	1.8 %	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	0.2287 ppm	0.1892 ppm	0.0000 ppm	136.6451 ppm	0.0002 ppm	0.0079 ppm	0.0021 ppm
Concentration per Run 1	0.2309 ppm	0.1883 ppm	-0.0001 ppm	135.0033 ppm	0.0011 ppm	0.0071 ppm	0.0024 ppm
Concentration per Run 2	0.2287 ppm	0.1908 ppm	-0.0001 ppm	136.8597 ppm	0.0000 ppm	0.0087 ppm	0.0029 ppm
Concentration per Run 3	0.2265 ppm	0.1886 ppm	0.0001 ppm	138.0721 ppm	-0.0004 ppm	0.0080 ppm	0.0010 ppm
Concentration RSD	1.0 %	0.7 %	445.3 %	1.1 %	345.4 %	10.0 %	47.8 %

	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	0.3370 ppm	0.0007 ppm	0.0402 ppm	0.0000 ppm	-0.0018 ppm	0.0002 ppm
Concentration per Run 1	-0.0016 ppm	0.3376 ppm	-0.0003 ppm	0.0402 ppm	0.0001 ppm	-0.0018 ppm	0.0001 ppm
Concentration per Run 2	0.0008 ppm	0.3381 ppm	0.0000 ppm	0.0404 ppm	-0.0001 ppm	-0.0018 ppm	0.0002 ppm
Concentration per Run 3	0.0004 ppm	0.3352 ppm	0.0022 ppm	0.0401 ppm	0.0001 ppm	-0.0019 ppm	0.0002 ppm
Concentration RSD	1,127.3 %	0.5 %	203.6 %	0.4 %	365.8 %	0.9 %	31.6 %

	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	0.0126 ppm	100.6297 %	102.8396 %	87.0241 %	85.8160 %	96.7339 %	88.2036 %
Concentration per Run 1	0.0128 ppm	99.8825 %	103.0486 %	87.1096 %	85.3209 %	96.9394 %	88.3259 %
Concentration per Run 2	0.0125 ppm	100.7324 %	102.2434 %	86.8360 %	85.9259 %	96.1464 %	87.9726 %
Concentration per Run 3	0.0126 ppm	101.2743 %	103.2268 %	87.1267 %	86.2013 %	97.1160 %	88.3125 %
Concentration RSD	1.1 %	0.7 %	0.5 %	0.2 %	0.5 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473305-01 WG2010529
Analysis started at: 12/20/2024 12:36:29 PM
Rack 1
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0796 ppm	0.0007 ppm	0.0064 ppm	0.0125 ppm	0.0000 ppm	7.2929 ppm
Concentration per Run 1	0.0000 ppm	0.0840 ppm	0.0006 ppm	0.0077 ppm	0.0124 ppm	0.0001 ppm	7.3319 ppm
Concentration per Run 2	-0.0002 ppm	0.0782 ppm	0.0008 ppm	0.0056 ppm	0.0123 ppm	0.0000 ppm	7.2829 ppm
Concentration per Run 3	0.0001 ppm	0.0768 ppm	0.0007 ppm	0.0059 ppm	0.0126 ppm	0.0000 ppm	7.2639 ppm
Concentration RSD	318.2 %	4.8 %	13.4 %	17.5 %	1.2 %	25.2 %	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	0.0003 ppm	0.0013 ppm	0.0002 ppm	0.0028 ppm	0.0311 ppm	0.4411 ppm	0.0066 ppm
Concentration per Run 1	0.0001 ppm	0.0009 ppm	0.0001 ppm	0.0028 ppm	0.0306 ppm	0.4476 ppm	0.0063 ppm
Concentration per Run 2	0.0003 ppm	0.0015 ppm	0.0001 ppm	0.0028 ppm	0.0312 ppm	0.4377 ppm	0.0067 ppm
Concentration per Run 3	0.0003 ppm	0.0014 ppm	0.0004 ppm	0.0026 ppm	0.0313 ppm	0.4381 ppm	0.0068 ppm
Concentration RSD	38.2 %	23.4 %	94.2 %	3.9 %	1.3 %	1.3 %	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	0.5236 ppm	0.1274 ppm	0.0003 ppm	135.1553 ppm	0.0077 ppm	0.0065 ppm	0.0014 ppm
Concentration per Run 1	0.5264 ppm	0.1283 ppm	0.0004 ppm	133.8673 ppm	0.0077 ppm	0.0063 ppm	-0.0007 ppm
Concentration per Run 2	0.5244 ppm	0.1270 ppm	0.0003 ppm	134.5932 ppm	0.0076 ppm	0.0070 ppm	0.0028 ppm
Concentration per Run 3	0.5201 ppm	0.1269 ppm	0.0001 ppm	137.0052 ppm	0.0078 ppm	0.0062 ppm	0.0021 ppm
Concentration RSD	0.6 %	0.6 %	61.0 %	1.2 %	1.6 %	7.3 %	131.2 %

	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	0.2624 ppm	0.0006 ppm	0.0280 ppm	0.0012 ppm	-0.0021 ppm	0.0001 ppm
Concentration per Run 1	0.0020 ppm	0.2650 ppm	0.0003 ppm	0.0280 ppm	0.0011 ppm	-0.0017 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.2630 ppm	0.0011 ppm	0.0278 ppm	0.0012 ppm	-0.0022 ppm	0.0001 ppm
Concentration per Run 3	-0.0013 ppm	0.2591 ppm	0.0003 ppm	0.0281 ppm	0.0014 ppm	-0.0025 ppm	0.0001 ppm
Concentration RSD	635.4 %	1.1 %	77.2 %	0.5 %	12.2 %	17.7 %	11.1 %

	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	0.0236 ppm	101.3928 %	103.0049 %	87.6646 %	86.8602 %	96.6947 %	88.6139 %
Concentration per Run 1	0.0236 ppm	101.1444 %	102.3728 %	87.1790 %	87.2734 %	96.4154 %	88.3001 %
Concentration per Run 2	0.0238 ppm	100.6573 %	103.2612 %	88.1533 %	86.0746 %	96.7497 %	89.1823 %
Concentration per Run 3	0.0233 ppm	102.3767 %	103.3807 %	87.6615 %	87.2326 %	96.9190 %	88.3592 %
Concentration RSD	1.0 %	0.9 %	0.5 %	0.6 %	0.8 %	0.3 %	0.6 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473685-01 WG2010529
Analysis started at: 12/20/2024 12:40:53 PM
Rack 1
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0545 ppm	-0.0003 ppm	0.0039 ppm	0.0896 ppm	0.0001 ppm	21.6038 ppm
Concentration per Run 1	-0.0003 ppm	0.0538 ppm	0.0007 ppm	0.0034 ppm	0.0895 ppm	0.0001 ppm	21.5288 ppm
Concentration per Run 2	-0.0003 ppm	0.0559 ppm	-0.0013 ppm	0.0044 ppm	0.0898 ppm	0.0001 ppm	21.6955 ppm
Concentration per Run 3	-0.0001 ppm	0.0538 ppm	-0.0003 ppm	0.0038 ppm	0.0895 ppm	0.0001 ppm	21.5870 ppm
Concentration RSD	54.5 %	2.2 %	330.6 %	14.0 %	0.2 %	22.4 %	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	0.0002 ppm	0.0014 ppm	0.0002 ppm	0.0012 ppm	2.0554 ppm	0.5516 ppm	0.0048 ppm
Concentration per Run 1	0.0002 ppm	0.0017 ppm	0.0005 ppm	0.0012 ppm	2.0597 ppm	0.5594 ppm	0.0050 ppm
Concentration per Run 2	0.0002 ppm	0.0014 ppm	0.0002 ppm	0.0010 ppm	2.0553 ppm	0.5508 ppm	0.0045 ppm
Concentration per Run 3	0.0002 ppm	0.0011 ppm	0.0000 ppm	0.0014 ppm	2.0513 ppm	0.5446 ppm	0.0050 ppm
Concentration RSD	17.2 %	22.7 %	106.7 %	15.0 %	0.2 %	1.3 %	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	0.7611 ppm	0.3133 ppm	-0.0001 ppm	140.1378 ppm	0.0024 ppm	0.0880 ppm	0.0017 ppm
Concentration per Run 1	0.7685 ppm	0.3133 ppm	-0.0003 ppm	139.2128 ppm	0.0029 ppm	0.0869 ppm	0.0020 ppm
Concentration per Run 2	0.7579 ppm	0.3134 ppm	0.0003 ppm	140.2492 ppm	0.0026 ppm	0.0887 ppm	0.0009 ppm
Concentration per Run 3	0.7567 ppm	0.3131 ppm	-0.0003 ppm	140.9514 ppm	0.0017 ppm	0.0885 ppm	0.0022 ppm
Concentration RSD	0.9 %	0.0 %	299.7 %	0.6 %	26.2 %	1.1 %	42.1 %

	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	0.6092 ppm	0.0009 ppm	0.0671 ppm	0.0000 ppm	-0.0026 ppm	0.0000 ppm
Concentration per Run 1	0.0002 ppm	0.6132 ppm	0.0002 ppm	0.0671 ppm	0.0001 ppm	-0.0030 ppm	0.0001 ppm
Concentration per Run 2	-0.0020 ppm	0.6073 ppm	0.0013 ppm	0.0673 ppm	-0.0002 ppm	-0.0023 ppm	0.0001 ppm
Concentration per Run 3	0.0006 ppm	0.6071 ppm	0.0012 ppm	0.0670 ppm	0.0000 ppm	-0.0024 ppm	-0.0001 ppm
Concentration RSD	357.3 %	0.6 %	66.9 %	0.2 %	319.2 %	14.0 %	724.6 %

	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	0.0689 ppm	100.6839 %	102.6394 %	86.4634 %	86.1370 %	96.9527 %	88.8248 %
Concentration per Run 1	0.0700 ppm	99.8095 %	102.8171 %	86.3899 %	85.6617 %	97.0489 %	88.7485 %
Concentration per Run 2	0.0684 ppm	101.1749 %	102.1186 %	86.4050 %	86.5898 %	96.2911 %	88.7732 %
Concentration per Run 3	0.0683 ppm	101.0674 %	102.9826 %	86.5955 %	86.1594 %	97.5181 %	88.9526 %
Concentration RSD	1.4 %	0.8 %	0.4 %	0.1 %	0.5 %	0.6 %	0.1 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: CCV
Analysis started at: 12/20/2024 12:45:19 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	0.4942 ppm	0.4721 ppm	0.4635 ppm	0.4912 ppm	0.4869 ppm	0.4986 ppm	0.4889 ppm
Concentration per Run 1	0.4959 ppm	0.4680 ppm	0.4649 ppm	0.4946 ppm	0.4827 ppm	0.4968 ppm	0.4898 ppm
Concentration per Run 2	0.4981 ppm	0.4749 ppm	0.4610 ppm	0.4941 ppm	0.4886 ppm	0.4994 ppm	0.4900 ppm
Concentration per Run 3	0.4886 ppm	0.4733 ppm	0.4646 ppm	0.4847 ppm	0.4894 ppm	0.4998 ppm	0.4869 ppm
Recovery Percentage 1	98.840 %	94.410 %	92.702 %	98.233 %	97.376 %	99.729 %	97.776 %
Concentration RSD	1.0 %	0.8 %	0.5 %	1.1 %	0.7 %	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	0.4872 ppm	0.5067 ppm	0.4906 ppm	0.4960 ppm	0.5040 ppm	5.1340 ppm	0.4961 ppm
Concentration per Run 1	0.4928 ppm	0.5098 ppm	0.4931 ppm	0.4971 ppm	0.5026 ppm	5.0923 ppm	0.4877 ppm
Concentration per Run 2	0.4882 ppm	0.5099 ppm	0.4931 ppm	0.5011 ppm	0.5045 ppm	5.1273 ppm	0.4958 ppm
Concentration per Run 3	0.4805 ppm	0.5003 ppm	0.4856 ppm	0.4897 ppm	0.5049 ppm	5.1824 ppm	0.5048 ppm
Recovery Percentage 1	97.435 %	101.337 %	98.122 %	99.192 %	100.807 %	102.680 %	99.221 %
Concentration RSD	1.3 %	1.1 %	0.9 %	1.2 %	0.2 %	0.9 %	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	0.4961 ppm	0.4797 ppm	0.4997 ppm	9.9809 ppm	0.5063 ppm	0.4850 ppm	0.5022 ppm
Concentration per Run 1	0.4994 ppm	0.4796 ppm	0.4991 ppm	9.8546 ppm	0.5101 ppm	0.4880 ppm	0.5022 ppm
Concentration per Run 2	0.4998 ppm	0.4795 ppm	0.5021 ppm	9.9767 ppm	0.5094 ppm	0.4827 ppm	0.5073 ppm
Concentration per Run 3	0.4893 ppm	0.4799 ppm	0.4978 ppm	10.1115 ppm	0.4994 ppm	0.4844 ppm	0.4972 ppm
Recovery Percentage 1	99.228 %	95.937 %	99.933 %	99.809 %	101.264 %	97.002 %	100.446 %
Concentration RSD	1.2 %	0.0 %	0.4 %	1.3 %	1.2 %	0.6 %	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	0.4673 ppm	5.5587 ppm	0.5152 ppm	0.5155 ppm	0.4933 ppm	0.4927 ppm	0.4887 ppm
Concentration per Run 1	0.4665 ppm	5.5805 ppm	0.5181 ppm	0.5121 ppm	0.4949 ppm	0.4935 ppm	0.4911 ppm
Concentration per Run 2	0.4658 ppm	5.5908 ppm	0.5198 ppm	0.5168 ppm	0.4966 ppm	0.4927 ppm	0.4914 ppm
Concentration per Run 3	0.4697 ppm	5.5047 ppm	0.5077 ppm	0.5176 ppm	0.4885 ppm	0.4918 ppm	0.4837 ppm
Recovery Percentage 1	93.461 %	105.879 %	103.040 %	103.097 %	98.665 %	98.531 %	97.743 %
Concentration RSD	0.4 %	0.8 %	1.3 %	0.6 %	0.9 %	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	0.4948 ppm	104.8042 %	105.3124 %	96.7158 %	92.2998 %	99.6346 %	93.9699 %
Concentration per Run 1	0.5003 ppm	104.4910 %	105.5884 %	96.6045 %	92.8786 %	100.0657 %	94.0707 %
Concentration per Run 2	0.4960 ppm	104.2251 %	105.3511 %	96.9300 %	91.7460 %	99.4431 %	94.2871 %
Concentration per Run 3	0.4880 ppm	105.6965 %	104.9979 %	96.6130 %	92.2749 %	99.3949 %	93.5520 %
Recovery Percentage 1	98.952 %						
Concentration RSD	1.3 %	0.7 %	0.3 %	0.2 %	0.6 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: CCB
Analysis started at: 12/20/2024 12:49:43 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	0.0000 ppm	0.0009 ppm	-0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0005 ppm
Concentration per Run 1	0.0001 ppm	-0.0020 ppm	0.0018 ppm	-0.0011 ppm	0.0001 ppm	0.0000 ppm	-0.0012 ppm
Concentration per Run 2	-0.0001 ppm	0.0013 ppm	0.0007 ppm	-0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 3	-0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm
Recovery Percentage 1	-1.026 %	-0.033 %	18.280 %	-0.772 %	0.722 %	0.778 %	-0.530 %
Concentration RSD	219.9 %	5,200.7 %	86.9 %	350.5 %	45.5 %	26.7 %	124.7 %

	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	0.0006 ppm	0.0002 ppm	0.0199 ppm	0.0005 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0007 ppm	-0.0001 ppm	0.0158 ppm	0.0003 ppm
Concentration per Run 2	0.0001 ppm	-0.0004 ppm	-0.0002 ppm	0.0005 ppm	0.0009 ppm	0.0242 ppm	0.0004 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	-0.0001 ppm	0.0004 ppm	-0.0001 ppm	0.0198 ppm	0.0007 ppm
Recovery Percentage 1	1.144 %	-3.266 %	-0.859 %	5.503 %	0.418 %	0.797 %	4.508 %
Concentration RSD	158.4 %	40.3 %	99.3 %	30.5 %	280.5 %	21.1 %	48.5 %

	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	-0.0003 ppm	0.0000 ppm	0.0024 ppm	0.0104 ppm	0.0002 ppm	0.0008 ppm	0.0003 ppm
Concentration per Run 1	-0.0009 ppm	-0.0001 ppm	0.0025 ppm	0.0114 ppm	0.0007 ppm	0.0010 ppm	-0.0008 ppm
Concentration per Run 2	-0.0004 ppm	0.0001 ppm	0.0022 ppm	0.0086 ppm	-0.0002 ppm	0.0010 ppm	0.0013 ppm
Concentration per Run 3	0.0005 ppm	0.0001 ppm	0.0024 ppm	0.0114 ppm	0.0001 ppm	0.0003 ppm	0.0003 ppm
Recovery Percentage 1	-0.271 %	-0.019 %	4.709 %	0.522 %	0.858 %	7.559 %	0.510 %
Concentration RSD	277.0 %	5,635.5 %	6.0 %	15.2 %	216.4 %	56.5 %	414.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	-0.0033 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 1	-0.0006 ppm	-0.0034 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 2	-0.0004 ppm	-0.0039 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 3	0.0003 ppm	-0.0025 ppm	-0.0007 ppm	0.0000 ppm	0.0000 ppm	-0.0007 ppm	-0.0001 ppm
Recovery Percentage 1	-2.389 %	-0.658 %	-0.362 %	0.396 %	0.257 %	-1.417 %	-0.555 %
Concentration RSD	185.5 %	21.1 %	255.0 %	39.2 %	190.3 %	123.7 %	96.6 %

	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	98.0346 %	101.4898 %	95.5845 %	93.8906 %	100.5044 %	95.5651 %
Concentration per Run 1	-0.0001 ppm	96.4148 %	100.7994 %	94.8878 %	93.5625 %	100.6634 %	95.3754 %
Concentration per Run 2	-0.0002 ppm	98.5723 %	102.4736 %	95.6498 %	94.4220 %	101.1162 %	96.0178 %
Concentration per Run 3	-0.0003 ppm	99.1168 %	101.1963 %	96.2161 %	93.6872 %	99.7335 %	95.3020 %
Recovery Percentage 1	-4.105 %						
Concentration RSD	55.5 %	1.5 %	0.9 %	0.7 %	0.5 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: WG2011688-1 WG2011688
Analysis started at: 12/20/2024 1:02:17 PM
Rack 1
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0068 ppm	-0.0002 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0160 ppm
Concentration per Run 1	0.0002 ppm	0.0073 ppm	-0.0007 ppm	-0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0166 ppm
Concentration per Run 2	-0.0001 ppm	0.0084 ppm	0.0007 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0156 ppm
Concentration per Run 3	-0.0001 ppm	0.0046 ppm	-0.0006 ppm	-0.0005 ppm	0.0002 ppm	0.0000 ppm	0.0159 ppm
Recovery Percentage 1	-0.266 %	6.756 %	-4.553 %	-1.366 %	1.225 %	-0.159 %	16.018 %
Concentration RSD	1,213.1 %	29.2 %	346.0 %	61.0 %	47.0 %	51.5 %	2.9 %

	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	-0.0005 ppm	0.0002 ppm	0.0003 ppm	0.0158 ppm	0.0074 ppm	0.0007 ppm
Concentration per Run 1	0.0001 ppm	-0.0005 ppm	0.0003 ppm	0.0004 ppm	0.0153 ppm	0.0032 ppm	0.0005 ppm
Concentration per Run 2	-0.0001 ppm	-0.0004 ppm	0.0001 ppm	0.0003 ppm	0.0161 ppm	0.0088 ppm	0.0008 ppm
Concentration per Run 3	0.0000 ppm	-0.0007 ppm	0.0002 ppm	0.0004 ppm	0.0161 ppm	0.0103 ppm	0.0008 ppm
Recovery Percentage 1	0.020 %	-5.307 %	2.062 %	3.362 %	31.673 %	0.298 %	7.132 %
Concentration RSD	9,200.7 %	21.0 %	43.0 %	10.5 %	2.8 %	50.5 %	29.8 %

	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	0.0034 ppm	0.0003 ppm	0.0002 ppm	0.0142 ppm	-0.0004 ppm	0.0002 ppm	0.0012 ppm
Concentration per Run 1	0.0033 ppm	0.0002 ppm	0.0002 ppm	0.0163 ppm	0.0000 ppm	0.0002 ppm	0.0012 ppm
Concentration per Run 2	0.0035 ppm	0.0005 ppm	0.0002 ppm	0.0117 ppm	-0.0006 ppm	0.0006 ppm	0.0008 ppm
Concentration per Run 3	0.0036 ppm	0.0002 ppm	0.0001 ppm	0.0146 ppm	-0.0006 ppm	-0.0003 ppm	0.0016 ppm
Recovery Percentage 1	3.446 %	2.850 %	0.311 %	0.710 %	-1.506 %	1.649 %	2.398 %
Concentration RSD	4.8 %	51.9 %	15.6 %	16.5 %	96.5 %	278.1 %	31.4 %

	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	0.0001 ppm	0.0023 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	-0.0014 ppm	0.0000 ppm
Concentration per Run 1	-0.0010 ppm	0.0021 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	-0.0015 ppm	0.0000 ppm
Concentration per Run 2	0.0015 ppm	0.0028 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 3	-0.0001 ppm	0.0021 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	-0.0016 ppm	0.0000 ppm
Recovery Percentage 1	1.203 %	0.468 %	0.566 %	0.488 %	-0.856 %	-6.923 %	0.291 %
Concentration RSD	1,042.7 %	16.0 %	102.6 %	48.5 %	45.2 %	22.4 %	214.0 %

	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	0.0006 ppm	109.6251 %	105.6872 %	104.9486 %	97.6210 %	100.6818 %	97.7836 %
Concentration per Run 1	0.0005 ppm	109.0867 %	105.0560 %	104.5329 %	97.8737 %	100.1584 %	97.7809 %
Concentration per Run 2	0.0006 ppm	109.2850 %	106.8251 %	105.6559 %	96.9411 %	101.5855 %	98.3294 %
Concentration per Run 3	0.0007 ppm	110.5038 %	105.1804 %	104.6569 %	98.0481 %	100.3015 %	97.2405 %
Recovery Percentage 1	11.990 %						
Concentration RSD	9.5 %	0.7 %	0.9 %	0.6 %	0.6 %	0.8 %	0.6 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: WG2011688-2d2 WG2011688
Analysis started at: 12/20/2024 1:06:58 PM
Rack 1
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0490 ppm	1.9860 ppm	0.1135 ppm	0.9489 ppm	1.9146 ppm	0.0492 ppm	9.5828 ppm
Concentration per Run 1	0.0494 ppm	1.9900 ppm	0.1136 ppm	0.9548 ppm	1.9228 ppm	0.0495 ppm	9.6338 ppm
Concentration per Run 2	0.0490 ppm	1.9955 ppm	0.1134 ppm	0.9523 ppm	1.9093 ppm	0.0492 ppm	9.5704 ppm
Concentration per Run 3	0.0486 ppm	1.9726 ppm	0.1137 ppm	0.9395 ppm	1.9116 ppm	0.0490 ppm	9.5443 ppm
Concentration RSD	0.9 %	0.6 %	0.2 %	0.9 %	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	0.0507 ppm	0.4919 ppm	0.1952 ppm	0.2519 ppm	0.9849 ppm	10.1184 ppm	0.0016 ppm
Concentration per Run 1	0.0514 ppm	0.4962 ppm	0.1975 ppm	0.2521 ppm	0.9898 ppm	10.0591 ppm	0.0017 ppm
Concentration per Run 2	0.0510 ppm	0.4936 ppm	0.1951 ppm	0.2532 ppm	0.9826 ppm	10.1125 ppm	0.0016 ppm
Concentration per Run 3	0.0497 ppm	0.4858 ppm	0.1929 ppm	0.2505 ppm	0.9821 ppm	10.1836 ppm	0.0015 ppm
Concentration RSD	1.7 %	1.1 %	1.2 %	0.6 %	0.4 %	0.6 %	6.3 %

	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	9.8433 ppm	0.4757 ppm	0.9971 ppm	10.0901 ppm	0.4837 ppm	0.5135 ppm	0.4612 ppm
Concentration per Run 1	9.9395 ppm	0.4774 ppm	0.9976 ppm	10.0095 ppm	0.4890 ppm	0.5160 ppm	0.4622 ppm
Concentration per Run 2	9.8432 ppm	0.4759 ppm	1.0019 ppm	10.1230 ppm	0.4850 ppm	0.5139 ppm	0.4642 ppm
Concentration per Run 3	9.7473 ppm	0.4738 ppm	0.9918 ppm	10.1377 ppm	0.4770 ppm	0.5105 ppm	0.4574 ppm
Concentration RSD	1.0 %	0.4 %	0.5 %	0.7 %	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	0.1100 ppm	0.9047 ppm	0.9828 ppm	0.9632 ppm	0.9847 ppm	0.1174 ppm	0.4965 ppm
Concentration per Run 1	0.1107 ppm	0.9091 ppm	0.9911 ppm	0.9653 ppm	0.9962 ppm	0.1185 ppm	0.5010 ppm
Concentration per Run 2	0.1100 ppm	0.9087 ppm	0.9895 ppm	0.9622 ppm	0.9841 ppm	0.1173 ppm	0.4967 ppm
Concentration per Run 3	0.1094 ppm	0.8962 ppm	0.9679 ppm	0.9622 ppm	0.9737 ppm	0.1162 ppm	0.4918 ppm
Concentration RSD	0.6 %	0.8 %	1.3 %	0.2 %	1.1 %	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	0.4762 ppm	102.9014 %	104.2433 %	92.7633 %	90.8435 %	98.8658 %	92.4760 %
Concentration per Run 1	0.4819 ppm	101.7058 %	104.0540 %	92.7533 %	90.4819 %	99.4335 %	92.6675 %
Concentration per Run 2	0.4780 ppm	102.7186 %	104.1876 %	92.5079 %	90.5945 %	98.5825 %	92.3769 %
Concentration per Run 3	0.4686 ppm	104.2798 %	104.4883 %	93.0287 %	91.4541 %	98.5814 %	92.3836 %
Concentration RSD	1.4 %	1.3 %	0.2 %	0.3 %	0.6 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2475139-02d2 WG2011688
Analysis started at: 12/20/2024 1:11:21 PM
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	0.0012 ppm	67.2558 ppm	0.0546 ppm	0.0073 ppm	0.1936 ppm	0.0031 ppm	5.4692 ppm
Concentration per Run 1	0.0011 ppm	66.8642 ppm	0.0565 ppm	0.0082 ppm	0.1925 ppm	0.0031 ppm	5.4664 ppm
Concentration per Run 2	0.0010 ppm	68.1151 ppm	0.0532 ppm	0.0072 ppm	0.1946 ppm	0.0032 ppm	5.4876 ppm
Concentration per Run 3	0.0015 ppm	66.7880 ppm	0.0542 ppm	0.0066 ppm	0.1935 ppm	0.0032 ppm	5.4536 ppm
Concentration RSD	23.3 %	1.1 %	3.1 %	10.8 %	0.5 %	1.1 %	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	0.0007 ppm	0.0570 ppm	0.0819 ppm	0.2043 ppm	149.8589 ppm	3.2677 ppm	0.1311 ppm
Concentration per Run 1	0.0008 ppm	0.0576 ppm	0.0824 ppm	0.2050 ppm	149.3792 ppm	3.2749 ppm	0.1300 ppm
Concentration per Run 2	0.0005 ppm	0.0573 ppm	0.0818 ppm	0.2039 ppm	150.8504 ppm	3.3025 ppm	0.1328 ppm
Concentration per Run 3	0.0009 ppm	0.0562 ppm	0.0814 ppm	0.2041 ppm	149.3470 ppm	3.2258 ppm	0.1306 ppm
Concentration RSD	22.6 %	1.3 %	0.6 %	0.3 %	0.6 %	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	19.9599 ppm	2.4261 ppm	0.0058 ppm	0.1682 ppm	0.1376 ppm	0.0717 ppm	0.0059 ppm
Concentration per Run 1	20.0611 ppm	2.4194 ppm	0.0057 ppm	0.1715 ppm	0.1386 ppm	0.0730 ppm	0.0034 ppm
Concentration per Run 2	19.9879 ppm	2.4415 ppm	0.0054 ppm	0.1731 ppm	0.1371 ppm	0.0714 ppm	0.0069 ppm
Concentration per Run 3	19.8307 ppm	2.4173 ppm	0.0064 ppm	0.1600 ppm	0.1372 ppm	0.0708 ppm	0.0074 ppm
Concentration RSD	0.6 %	0.6 %	8.6 %	4.3 %	0.6 %	1.6 %	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	-0.0025 ppm	8.6726 ppm	0.0021 ppm	0.0215 ppm	0.8090 ppm	-0.0005 ppm	0.1077 ppm
Concentration per Run 1	-0.0014 ppm	8.8845 ppm	0.0013 ppm	0.0217 ppm	0.8045 ppm	-0.0006 ppm	0.1086 ppm
Concentration per Run 2	-0.0031 ppm	8.5500 ppm	0.0028 ppm	0.0217 ppm	0.8087 ppm	-0.0010 ppm	0.1082 ppm
Concentration per Run 3	-0.0028 ppm	8.5835 ppm	0.0022 ppm	0.0210 ppm	0.8137 ppm	0.0000 ppm	0.1065 ppm
Concentration RSD	37.5 %	2.1 %	34.9 %	1.9 %	0.6 %	99.6 %	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	0.5314 ppm	108.5281 %	110.2004 %	92.0214 %	122.2120 %	135.2443 %	124.8459 %
Concentration per Run 1	0.5359 ppm	108.0880 %	110.1949 %	91.2831 %	122.5310 %	134.9502 %	124.2734 %
Concentration per Run 2	0.5296 ppm	108.5580 %	109.9820 %	91.9778 %	122.5618 %	135.2249 %	124.7492 %
Concentration per Run 3	0.5287 ppm	108.9384 %	110.4242 %	92.8033 %	121.5433 %	135.5576 %	125.5151 %
Concentration RSD	0.7 %	0.4 %	0.2 %	0.8 %	0.5 %	0.2 %	0.5 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2474933-01d2 WG2011688
Analysis started at: 12/20/2024 1:15:46 PM
Rack 1
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	3.1636 ppm	0.0065 ppm	0.0034 ppm	0.0559 ppm	0.0002 ppm	1.6904 ppm
Concentration per Run 1	0.0002 ppm	3.1898 ppm	0.0074 ppm	0.0029 ppm	0.0565 ppm	0.0002 ppm	1.6934 ppm
Concentration per Run 2	0.0001 ppm	3.1590 ppm	0.0058 ppm	0.0046 ppm	0.0554 ppm	0.0002 ppm	1.6990 ppm
Concentration per Run 3	0.0002 ppm	3.1419 ppm	0.0065 ppm	0.0027 ppm	0.0559 ppm	0.0002 ppm	1.6787 ppm
Concentration RSD	51.9 %	0.8 %	12.2 %	31.2 %	0.9 %	8.1 %	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	0.0004 ppm	0.0022 ppm	0.0259 ppm	0.0312 ppm	8.0142 ppm	0.7161 ppm	0.0072 ppm
Concentration per Run 1	0.0004 ppm	0.0023 ppm	0.0264 ppm	0.0315 ppm	8.0367 ppm	0.7378 ppm	0.0072 ppm
Concentration per Run 2	0.0004 ppm	0.0020 ppm	0.0258 ppm	0.0310 ppm	8.0378 ppm	0.7048 ppm	0.0073 ppm
Concentration per Run 3	0.0004 ppm	0.0022 ppm	0.0255 ppm	0.0311 ppm	7.9680 ppm	0.7058 ppm	0.0072 ppm
Concentration RSD	7.0 %	7.5 %	1.7 %	1.0 %	0.5 %	2.6 %	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	1.2633 ppm	0.1229 ppm	0.0013 ppm	0.1980 ppm	0.0063 ppm	0.2407 ppm	0.0038 ppm
Concentration per Run 1	1.2809 ppm	0.1231 ppm	0.0013 ppm	0.2013 ppm	0.0063 ppm	0.2429 ppm	0.0034 ppm
Concentration per Run 2	1.2631 ppm	0.1234 ppm	0.0012 ppm	0.1944 ppm	0.0060 ppm	0.2403 ppm	0.0045 ppm
Concentration per Run 3	1.2459 ppm	0.1220 ppm	0.0013 ppm	0.1984 ppm	0.0066 ppm	0.2389 ppm	0.0035 ppm
Concentration RSD	1.4 %	0.6 %	4.3 %	1.7 %	4.0 %	0.8 %	15.7 %

	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	1.2078 ppm	0.0034 ppm	0.0103 ppm	0.6252 ppm	-0.0001 ppm	0.0217 ppm
Concentration per Run 1	-0.0011 ppm	1.2463 ppm	0.0027 ppm	0.0104 ppm	0.6276 ppm	0.0000 ppm	0.0219 ppm
Concentration per Run 2	-0.0013 ppm	1.1983 ppm	0.0042 ppm	0.0102 ppm	0.6297 ppm	-0.0002 ppm	0.0219 ppm
Concentration per Run 3	-0.0010 ppm	1.1788 ppm	0.0032 ppm	0.0104 ppm	0.6184 ppm	0.0000 ppm	0.0213 ppm
Concentration RSD	12.5 %	2.9 %	21.9 %	1.1 %	1.0 %	186.0 %	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	0.2202 ppm	104.1488 %	106.1372 %	97.2813 %	96.4947 %	104.6509 %	98.2641 %
Concentration per Run 1	0.2232 ppm	102.8841 %	106.1365 %	96.8228 %	96.3065 %	105.4783 %	98.4295 %
Concentration per Run 2	0.2221 ppm	104.1781 %	105.2962 %	96.8846 %	96.7481 %	103.5180 %	97.7874 %
Concentration per Run 3	0.2155 ppm	105.3842 %	106.9788 %	98.1366 %	96.4296 %	104.9564 %	98.5754 %
Concentration RSD	1.9 %	1.2 %	0.8 %	0.8 %	0.2 %	1.0 %	0.4 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: WG2011688-3d2 WG2011688
Analysis started at: 12/20/2024 1:20:09 PM
Rack 1
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0475 ppm	5.3831 ppm	0.1123 ppm	0.9253 ppm	1.9296 ppm	0.0471 ppm	10.6326 ppm
Concentration per Run 1	0.0480 ppm	5.3504 ppm	0.1136 ppm	0.9323 ppm	1.9168 ppm	0.0469 ppm	10.6270 ppm
Concentration per Run 2	0.0471 ppm	5.4443 ppm	0.1126 ppm	0.9187 ppm	1.9546 ppm	0.0476 ppm	10.7013 ppm
Concentration per Run 3	0.0473 ppm	5.3545 ppm	0.1107 ppm	0.9250 ppm	1.9173 ppm	0.0469 ppm	10.5696 ppm
Concentration RSD	0.9 %	1.0 %	1.3 %	0.7 %	1.1 %	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	0.0487 ppm	0.4749 ppm	0.2111 ppm	0.2714 ppm	8.4112 ppm	10.5135 ppm	0.0084 ppm
Concentration per Run 1	0.0490 ppm	0.4801 ppm	0.2133 ppm	0.2739 ppm	8.3756 ppm	10.4093 ppm	0.0088 ppm
Concentration per Run 2	0.0487 ppm	0.4732 ppm	0.2102 ppm	0.2701 ppm	8.4837 ppm	10.6493 ppm	0.0083 ppm
Concentration per Run 3	0.0482 ppm	0.4714 ppm	0.2097 ppm	0.2704 ppm	8.3744 ppm	10.4820 ppm	0.0080 ppm
Concentration RSD	0.8 %	1.0 %	0.9 %	0.8 %	0.7 %	1.2 %	4.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.7234 ppm	0.5768 ppm	0.9730 ppm	10.0757 ppm	0.4680 ppm	0.7287 ppm	0.4504 ppm
Concentration per Run 1	10.8407 ppm	0.5749 ppm	0.9752 ppm	10.0314 ppm	0.4723 ppm	0.7310 ppm	0.4562 ppm
Concentration per Run 2	10.6628 ppm	0.5820 ppm	0.9673 ppm	10.2184 ppm	0.4654 ppm	0.7339 ppm	0.4493 ppm
Concentration per Run 3	10.6667 ppm	0.5733 ppm	0.9764 ppm	9.9772 ppm	0.4664 ppm	0.7211 ppm	0.4457 ppm
Concentration RSD	0.9 %	0.8 %	0.5 %	1.3 %	0.8 %	0.9 %	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	0.1033 ppm	2.0878 ppm	0.9478 ppm	0.9456 ppm	1.5487 ppm	0.1146 ppm	0.4961 ppm
Concentration per Run 1	0.1052 ppm	2.0979 ppm	0.9610 ppm	0.9391 ppm	1.5670 ppm	0.1144 ppm	0.5015 ppm
Concentration per Run 2	0.1046 ppm	2.0897 ppm	0.9393 ppm	0.9601 ppm	1.5424 ppm	0.1161 ppm	0.4932 ppm
Concentration per Run 3	0.1002 ppm	2.0758 ppm	0.9430 ppm	0.9378 ppm	1.5366 ppm	0.1134 ppm	0.4935 ppm
Concentration RSD	2.7 %	0.5 %	1.2 %	1.3 %	1.0 %	1.2 %	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	0.6548 ppm	103.7583 %	106.1418 %	91.6382 %	93.3518 %	102.5534 %	95.0044 %
Concentration per Run 1	0.6631 ppm	102.9628 %	106.5021 %	91.7638 %	93.7658 %	102.7972 %	95.2624 %
Concentration per Run 2	0.6507 ppm	104.4164 %	105.4728 %	90.9765 %	93.8674 %	102.2867 %	94.4528 %
Concentration per Run 3	0.6507 ppm	103.8956 %	106.4504 %	92.1742 %	92.4222 %	102.5763 %	95.2981 %
Concentration RSD	1.1 %	0.7 %	0.5 %	0.7 %	0.9 %	0.2 %	0.5 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: WG2011688-4d2 WG2011688
Analysis started at: 12/20/2024 1:24:32 PM
Rack 1
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	2.8037 ppm	0.0071 ppm	0.0028 ppm	0.1531 ppm	0.0002 ppm	1.3914 ppm
Concentration per Run 1	-0.0001 ppm	2.8139 ppm	0.0065 ppm	0.0032 ppm	0.1542 ppm	0.0002 ppm	1.4007 ppm
Concentration per Run 2	0.0002 ppm	2.7636 ppm	0.0076 ppm	0.0021 ppm	0.1515 ppm	0.0002 ppm	1.3866 ppm
Concentration per Run 3	0.0003 ppm	2.8337 ppm	0.0071 ppm	0.0031 ppm	0.1536 ppm	0.0002 ppm	1.3869 ppm
Concentration RSD	137.7 %	1.3 %	7.6 %	21.7 %	0.9 %	3.7 %	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	0.0004 ppm	0.0020 ppm	0.0226 ppm	0.0324 ppm	7.3371 ppm	0.5609 ppm	0.0063 ppm
Concentration per Run 1	0.0004 ppm	0.0018 ppm	0.0230 ppm	0.0328 ppm	7.3982 ppm	0.5830 ppm	0.0058 ppm
Concentration per Run 2	0.0004 ppm	0.0021 ppm	0.0222 ppm	0.0323 ppm	7.2853 ppm	0.5431 ppm	0.0070 ppm
Concentration per Run 3	0.0004 ppm	0.0020 ppm	0.0227 ppm	0.0320 ppm	7.3278 ppm	0.5565 ppm	0.0061 ppm
Concentration RSD	6.4 %	6.9 %	1.7 %	1.2 %	0.8 %	3.6 %	9.8 %

	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	1.1449 ppm	0.1144 ppm	0.0045 ppm	0.1690 ppm	0.0057 ppm	0.2038 ppm	0.0060 ppm
Concentration per Run 1	1.1622 ppm	0.1152 ppm	0.0049 ppm	0.1707 ppm	0.0058 ppm	0.2043 ppm	0.0045 ppm
Concentration per Run 2	1.1318 ppm	0.1136 ppm	0.0042 ppm	0.1654 ppm	0.0052 ppm	0.2042 ppm	0.0064 ppm
Concentration per Run 3	1.1406 ppm	0.1144 ppm	0.0043 ppm	0.1709 ppm	0.0061 ppm	0.2028 ppm	0.0070 ppm
Concentration RSD	1.4 %	0.7 %	8.4 %	1.9 %	8.7 %	0.4 %	21.5 %

	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	0.9188 ppm	0.0027 ppm	0.0099 ppm	0.5350 ppm	-0.0005 ppm	0.0197 ppm
Concentration per Run 1	-0.0009 ppm	0.9377 ppm	0.0021 ppm	0.0100 ppm	0.5441 ppm	-0.0002 ppm	0.0199 ppm
Concentration per Run 2	0.0010 ppm	0.8921 ppm	0.0026 ppm	0.0097 ppm	0.5295 ppm	-0.0003 ppm	0.0195 ppm
Concentration per Run 3	-0.0002 ppm	0.9267 ppm	0.0035 ppm	0.0099 ppm	0.5313 ppm	-0.0009 ppm	0.0196 ppm
Concentration RSD	1,514.6 %	2.6 %	27.4 %	1.2 %	1.5 %	75.8 %	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	0.2072 ppm	104.4297 %	106.1411 %	97.4088 %	95.8662 %	103.0927 %	97.8152 %
Concentration per Run 1	0.2107 ppm	102.9915 %	105.0335 %	97.0686 %	95.9671 %	102.6050 %	98.0246 %
Concentration per Run 2	0.2041 ppm	105.0379 %	106.7952 %	97.4353 %	96.2568 %	103.2206 %	97.9540 %
Concentration per Run 3	0.2070 ppm	105.2596 %	106.5946 %	97.7227 %	95.3748 %	103.4525 %	97.4669 %
Concentration RSD	1.6 %	1.2 %	0.9 %	0.3 %	0.5 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: WG2011688-5d2 WG2011688
Analysis started at: 12/20/2024 1:28:58 PM
Rack 1
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0482 ppm	4.9020 ppm	0.1196 ppm	0.9556 ppm	1.8985 ppm	0.0472 ppm	11.0304 ppm
Concentration per Run 1	0.0485 ppm	4.8987 ppm	0.1197 ppm	0.9658 ppm	1.8979 ppm	0.0474 ppm	11.0749 ppm
Concentration per Run 2	0.0483 ppm	4.9099 ppm	0.1217 ppm	0.9561 ppm	1.9006 ppm	0.0473 ppm	11.0379 ppm
Concentration per Run 3	0.0477 ppm	4.8974 ppm	0.1173 ppm	0.9451 ppm	1.8969 ppm	0.0471 ppm	10.9784 ppm
Concentration RSD	0.9 %	0.1 %	1.8 %	1.1 %	0.1 %	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	0.0489 ppm	0.4788 ppm	0.2128 ppm	0.2746 ppm	8.5591 ppm	10.6874 ppm	0.0067 ppm
Concentration per Run 1	0.0495 ppm	0.4834 ppm	0.2149 ppm	0.2779 ppm	8.5872 ppm	10.6600 ppm	0.0071 ppm
Concentration per Run 2	0.0487 ppm	0.4775 ppm	0.2124 ppm	0.2738 ppm	8.5606 ppm	10.6549 ppm	0.0066 ppm
Concentration per Run 3	0.0486 ppm	0.4753 ppm	0.2111 ppm	0.2719 ppm	8.5294 ppm	10.7474 ppm	0.0063 ppm
Concentration RSD	0.9 %	0.9 %	0.9 %	1.1 %	0.3 %	0.5 %	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	10.9791 ppm	0.5845 ppm	0.9633 ppm	10.0579 ppm	0.4863 ppm	0.7492 ppm	0.4144 ppm
Concentration per Run 1	11.0780 ppm	0.5869 ppm	0.9652 ppm	9.9918 ppm	0.4909 ppm	0.7552 ppm	0.4163 ppm
Concentration per Run 2	10.9732 ppm	0.5852 ppm	0.9596 ppm	10.0576 ppm	0.4855 ppm	0.7494 ppm	0.4135 ppm
Concentration per Run 3	10.8860 ppm	0.5814 ppm	0.9649 ppm	10.1242 ppm	0.4823 ppm	0.7432 ppm	0.4134 ppm
Concentration RSD	0.9 %	0.5 %	0.3 %	0.7 %	0.9 %	0.8 %	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	0.1109 ppm	1.6952 ppm	0.9764 ppm	0.9616 ppm	1.5738 ppm	0.1165 ppm	0.4990 ppm
Concentration per Run 1	0.1114 ppm	1.7170 ppm	0.9947 ppm	0.9619 ppm	1.6093 ppm	0.1183 ppm	0.5036 ppm
Concentration per Run 2	0.1135 ppm	1.7113 ppm	0.9666 ppm	0.9632 ppm	1.5620 ppm	0.1164 ppm	0.4994 ppm
Concentration per Run 3	0.1080 ppm	1.6573 ppm	0.9679 ppm	0.9597 ppm	1.5501 ppm	0.1147 ppm	0.4940 ppm
Concentration RSD	2.5 %	1.9 %	1.6 %	0.2 %	2.0 %	1.5 %	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	0.6852 ppm	102.6763 %	105.2055 %	91.7944 %	93.5248 %	102.3342 %	95.7018 %
Concentration per Run 1	0.6925 ppm	101.8883 %	104.9467 %	90.6771 %	93.8720 %	102.3647 %	94.9990 %
Concentration per Run 2	0.6829 ppm	102.7633 %	105.2133 %	92.0667 %	93.5745 %	102.1716 %	95.8754 %
Concentration per Run 3	0.6802 ppm	103.3774 %	105.4566 %	92.6395 %	93.1279 %	102.4663 %	96.2309 %
Concentration RSD	0.9 %	0.7 %	0.2 %	1.1 %	0.4 %	0.1 %	0.7 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: WG2011688-6d10 WG2011688
Analysis started at: 12/20/2024 1:33:22 PM
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	0.6462 ppm	0.0016 ppm	0.0009 ppm	0.0116 ppm	0.0000 ppm	0.3470 ppm
Concentration per Run 1	0.0001 ppm	0.6444 ppm	0.0014 ppm	0.0009 ppm	0.0116 ppm	0.0001 ppm	0.3466 ppm
Concentration per Run 2	0.0000 ppm	0.6441 ppm	0.0026 ppm	0.0006 ppm	0.0116 ppm	0.0000 ppm	0.3506 ppm
Concentration per Run 3	0.0001 ppm	0.6502 ppm	0.0008 ppm	0.0011 ppm	0.0116 ppm	0.0000 ppm	0.3439 ppm
Concentration RSD	41.0 %	0.5 %	58.1 %	29.5 %	0.3 %	25.1 %	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	0.0001 ppm	0.0003 ppm	0.0054 ppm	0.0066 ppm	1.6133 ppm	0.1568 ppm	0.0020 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0056 ppm	0.0067 ppm	1.6102 ppm	0.1678 ppm	0.0020 ppm
Concentration per Run 2	0.0001 ppm	0.0005 ppm	0.0053 ppm	0.0064 ppm	1.6280 ppm	0.1516 ppm	0.0023 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0055 ppm	0.0067 ppm	1.6018 ppm	0.1510 ppm	0.0015 ppm
Concentration RSD	33.7 %	106.6 %	2.7 %	2.0 %	0.8 %	6.1 %	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	0.2628 ppm	0.0251 ppm	0.0056 ppm	0.0364 ppm	0.0010 ppm	0.0491 ppm	0.0101 ppm
Concentration per Run 1	0.2667 ppm	0.0252 ppm	0.0056 ppm	0.0377 ppm	0.0005 ppm	0.0495 ppm	0.0099 ppm
Concentration per Run 2	0.2607 ppm	0.0251 ppm	0.0058 ppm	0.0342 ppm	0.0014 ppm	0.0487 ppm	0.0106 ppm
Concentration per Run 3	0.2611 ppm	0.0249 ppm	0.0054 ppm	0.0374 ppm	0.0009 ppm	0.0492 ppm	0.0096 ppm
Concentration RSD	1.3 %	0.6 %	3.5 %	5.2 %	45.9 %	0.8 %	5.2 %

	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	-0.0016 ppm	0.2436 ppm	0.0015 ppm	0.0021 ppm	0.1275 ppm	-0.0004 ppm	0.0045 ppm
Concentration per Run 1	-0.0028 ppm	0.2499 ppm	0.0008 ppm	0.0021 ppm	0.1278 ppm	0.0001 ppm	0.0046 ppm
Concentration per Run 2	-0.0011 ppm	0.2334 ppm	0.0016 ppm	0.0022 ppm	0.1284 ppm	-0.0006 ppm	0.0046 ppm
Concentration per Run 3	-0.0009 ppm	0.2475 ppm	0.0022 ppm	0.0021 ppm	0.1264 ppm	-0.0008 ppm	0.0043 ppm
Concentration RSD	64.6 %	3.7 %	44.8 %	1.9 %	0.8 %	114.5 %	3.4 %

	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	0.0455 ppm	102.2622 %	105.0645 %	97.6069 %	94.2068 %	101.5350 %	96.3673 %
Concentration per Run 1	0.0457 ppm	101.5245 %	105.6837 %	97.5019 %	94.8042 %	102.1856 %	96.8580 %
Concentration per Run 2	0.0455 ppm	101.8757 %	104.0166 %	97.2591 %	93.7457 %	100.2898 %	95.9027 %
Concentration per Run 3	0.0454 ppm	103.3864 %	105.4931 %	98.0596 %	94.0705 %	102.1297 %	96.3412 %
Concentration RSD	0.4 %	1.0 %	0.9 %	0.4 %	0.6 %	1.1 %	0.5 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: CCV
Analysis started at: 12/20/2024 1:37:46 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	0.4939 ppm	0.4734 ppm	0.4608 ppm	0.4886 ppm	0.4885 ppm	0.4997 ppm	0.4881 ppm
Concentration per Run 1	0.4984 ppm	0.4773 ppm	0.4615 ppm	0.4916 ppm	0.4877 ppm	0.4984 ppm	0.4871 ppm
Concentration per Run 2	0.4909 ppm	0.4729 ppm	0.4618 ppm	0.4848 ppm	0.4895 ppm	0.5021 ppm	0.4923 ppm
Concentration per Run 3	0.4925 ppm	0.4700 ppm	0.4592 ppm	0.4892 ppm	0.4884 ppm	0.4984 ppm	0.4850 ppm
Recovery Percentage 1	98.786 %	94.677 %	92.165 %	97.711 %	97.706 %	99.931 %	97.629 %
Concentration RSD	0.8 %	0.8 %	0.3 %	0.7 %	0.2 %	0.4 %	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	0.4826 ppm	0.5036 ppm	0.4898 ppm	0.4968 ppm	0.5041 ppm	5.1385 ppm	0.4971 ppm
Concentration per Run 1	0.4856 ppm	0.5062 ppm	0.4940 ppm	0.5003 ppm	0.5036 ppm	5.1319 ppm	0.4952 ppm
Concentration per Run 2	0.4766 ppm	0.4988 ppm	0.4849 ppm	0.4938 ppm	0.5059 ppm	5.1425 ppm	0.4945 ppm
Concentration per Run 3	0.4855 ppm	0.5059 ppm	0.4905 ppm	0.4963 ppm	0.5029 ppm	5.1411 ppm	0.5016 ppm
Recovery Percentage 1	96.513 %	100.725 %	97.964 %	99.360 %	100.830 %	102.770 %	99.418 %
Concentration RSD	1.1 %	0.8 %	0.9 %	0.7 %	0.3 %	0.1 %	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	0.4946 ppm	0.4798 ppm	0.5020 ppm	9.9387 ppm	0.5053 ppm	0.4842 ppm	0.5053 ppm
Concentration per Run 1	0.4995 ppm	0.4783 ppm	0.5013 ppm	10.0169 ppm	0.5079 ppm	0.4858 ppm	0.5097 ppm
Concentration per Run 2	0.4899 ppm	0.4829 ppm	0.4947 ppm	9.8562 ppm	0.5021 ppm	0.4862 ppm	0.4991 ppm
Concentration per Run 3	0.4945 ppm	0.4782 ppm	0.5100 ppm	9.9430 ppm	0.5061 ppm	0.4805 ppm	0.5072 ppm
Recovery Percentage 1	98.928 %	95.965 %	100.403 %	99.387 %	101.069 %	96.833 %	101.066 %
Concentration RSD	1.0 %	0.6 %	1.5 %	0.8 %	0.6 %	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	0.4636 ppm	5.5377 ppm	0.5143 ppm	0.5168 ppm	0.4926 ppm	0.4890 ppm	0.4877 ppm
Concentration per Run 1	0.4666 ppm	5.5600 ppm	0.5132 ppm	0.5161 ppm	0.4975 ppm	0.4894 ppm	0.4933 ppm
Concentration per Run 2	0.4629 ppm	5.4972 ppm	0.5082 ppm	0.5179 ppm	0.4884 ppm	0.4921 ppm	0.4838 ppm
Concentration per Run 3	0.4614 ppm	5.5558 ppm	0.5214 ppm	0.5165 ppm	0.4918 ppm	0.4854 ppm	0.4858 ppm
Recovery Percentage 1	92.727 %	105.479 %	102.856 %	103.360 %	98.520 %	97.797 %	97.531 %
Concentration RSD	0.6 %	0.6 %	1.3 %	0.2 %	0.9 %	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	0.4924 ppm	104.6799 %	104.8960 %	96.6422 %	91.6569 %	99.3034 %	93.8553 %
Concentration per Run 1	0.4937 ppm	104.0690 %	105.6646 %	96.3924 %	92.0271 %	99.7341 %	93.8812 %
Concentration per Run 2	0.4853 ppm	105.3372 %	104.1597 %	96.1899 %	92.1338 %	99.0192 %	93.6818 %
Concentration per Run 3	0.4983 ppm	104.6336 %	104.8637 %	97.3442 %	90.8098 %	99.1568 %	94.0029 %
Recovery Percentage 1	98.489 %						
Concentration RSD	1.3 %	0.6 %	0.7 %	0.6 %	0.8 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: CCB
Analysis started at: 12/20/2024 1:42:11 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	0.0017 ppm	0.0018 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0008 ppm
Concentration per Run 1	0.0001 ppm	0.0044 ppm	0.0014 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0007 ppm
Concentration per Run 2	-0.0002 ppm	0.0008 ppm	0.0028 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0012 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0020 ppm
Recovery Percentage 1	-1.013 %	1.725 %	35.650 %	0.425 %	0.793 %	0.361 %	0.804 %
Concentration RSD	236.4 %	135.7 %	48.3 %	114.5 %	7.5 %	28.3 %	141.0 %

	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	0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0146 ppm	0.0007 ppm
Concentration per Run 1	0.0002 ppm	-0.0002 ppm	0.0001 ppm	0.0005 ppm	0.0007 ppm	0.0168 ppm	0.0008 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0007 ppm	0.0004 ppm	0.0073 ppm	0.0008 ppm
Concentration per Run 3	0.0001 ppm	-0.0007 ppm	0.0000 ppm	0.0004 ppm	-0.0004 ppm	0.0197 ppm	0.0005 ppm
Recovery Percentage 1	3.014 %	-3.098 %	0.939 %	5.303 %	0.473 %	0.584 %	6.819 %
Concentration RSD	25.9 %	101.3 %	50.2 %	27.0 %	236.2 %	44.3 %	29.2 %

	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	-0.0006 ppm	0.0001 ppm	0.0028 ppm	-0.0066 ppm	0.0002 ppm	0.0003 ppm	0.0015 ppm
Concentration per Run 1	-0.0005 ppm	0.0001 ppm	0.0029 ppm	-0.0079 ppm	-0.0003 ppm	-0.0002 ppm	0.0029 ppm
Concentration per Run 2	-0.0008 ppm	0.0001 ppm	0.0030 ppm	-0.0046 ppm	0.0010 ppm	0.0007 ppm	-0.0003 ppm
Concentration per Run 3	-0.0007 ppm	0.0000 ppm	0.0026 ppm	-0.0073 ppm	0.0000 ppm	0.0002 ppm	0.0018 ppm
Recovery Percentage 1	-0.632 %	0.681 %	5.632 %	-0.330 %	0.892 %	2.668 %	2.988 %
Concentration RSD	23.9 %	65.2 %	7.4 %	26.3 %	301.6 %	174.7 %	109.9 %

	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	-0.0019 ppm	0.0004 ppm	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0002 ppm
Concentration per Run 1	-0.0012 ppm	-0.0012 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0006 ppm	0.0003 ppm
Concentration per Run 2	-0.0010 ppm	-0.0024 ppm	0.0003 ppm	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 3	-0.0012 ppm	-0.0022 ppm	0.0008 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm
Recovery Percentage 1	-11.338 %	-0.383 %	0.845 %	0.453 %	-0.893 %	-1.059 %	1.601 %
Concentration RSD	10.0 %	31.4 %	79.1 %	52.2 %	32.3 %	146.2 %	69.7 %

	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	0.0003 ppm	99.0072 %	101.9006 %	95.9797 %	94.5423 %	100.5285 %	95.7351 %
Concentration per Run 1	0.0004 ppm	97.6069 %	100.9554 %	95.5091 %	94.2777 %	100.0472 %	95.6818 %
Concentration per Run 2	0.0002 ppm	99.0328 %	102.6060 %	95.8804 %	94.5695 %	100.8860 %	96.0678 %
Concentration per Run 3	0.0003 ppm	100.3819 %	102.1403 %	96.5497 %	94.7798 %	100.6522 %	95.4559 %
Recovery Percentage 1	6.056 %						
Concentration RSD	47.3 %	1.4 %	0.8 %	0.5 %	0.3 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: WG2011483-1 WG2011483
Analysis started at: 12/20/2024 1:53:19 PM
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	0.0000 ppm	0.0171 ppm	0.0013 ppm	-0.0004 ppm	0.0005 ppm	0.0000 ppm	0.0591 ppm
Concentration per Run 1	0.0001 ppm	0.0175 ppm	0.0013 ppm	0.0003 ppm	0.0005 ppm	0.0000 ppm	0.0579 ppm
Concentration per Run 2	0.0000 ppm	0.0167 ppm	0.0008 ppm	-0.0004 ppm	0.0004 ppm	0.0000 ppm	0.0596 ppm
Concentration per Run 3	-0.0001 ppm	0.0172 ppm	0.0019 ppm	-0.0011 ppm	0.0005 ppm	0.0000 ppm	0.0599 ppm
Recovery Percentage 1	-0.359 %	17.106 %	26.490 %	-1.318 %	4.709 %	0.011 %	59.125 %
Concentration RSD	599.9 %	2.3 %	44.3 %	169.6 %	7.8 %	4,326.6 %	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	0.0000 ppm	-0.0005 ppm	0.0002 ppm	0.0006 ppm	0.0297 ppm	0.0144 ppm	0.0001 ppm
Concentration per Run 1	-0.0001 ppm	-0.0003 ppm	0.0002 ppm	0.0006 ppm	0.0301 ppm	0.0109 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	-0.0007 ppm	0.0001 ppm	0.0005 ppm	0.0295 ppm	0.0141 ppm	-0.0003 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	0.0002 ppm	0.0005 ppm	0.0294 ppm	0.0183 ppm	0.0006 ppm
Recovery Percentage 1	-0.921 %	-4.759 %	1.646 %	5.524 %	59.319 %	0.577 %	1.183 %
Concentration RSD	197.0 %	45.9 %	33.5 %	9.8 %	1.4 %	25.9 %	380.3 %

	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	0.0160 ppm	0.0012 ppm	0.0009 ppm	-0.0012 ppm	-0.0004 ppm	0.0003 ppm	0.0022 ppm
Concentration per Run 1	0.0159 ppm	0.0012 ppm	0.0011 ppm	-0.0023 ppm	-0.0003 ppm	0.0007 ppm	0.0032 ppm
Concentration per Run 2	0.0157 ppm	0.0012 ppm	0.0010 ppm	-0.0017 ppm	-0.0004 ppm	0.0000 ppm	0.0017 ppm
Concentration per Run 3	0.0163 ppm	0.0013 ppm	0.0005 ppm	0.0005 ppm	-0.0006 ppm	0.0001 ppm	0.0016 ppm
Recovery Percentage 1	15.959 %	12.151 %	1.724 %	-0.058 %	-1.730 %	2.888 %	4.339 %
Concentration RSD	1.9 %	5.5 %	35.8 %	123.6 %	26.3 %	131.3 %	40.8 %

	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	0.0221 ppm	0.0026 ppm	0.0003 ppm	0.0009 ppm	-0.0016 ppm	0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.0248 ppm	0.0025 ppm	0.0003 ppm	0.0007 ppm	-0.0017 ppm	0.0001 ppm
Concentration per Run 2	-0.0004 ppm	0.0201 ppm	0.0030 ppm	0.0003 ppm	0.0008 ppm	-0.0013 ppm	0.0000 ppm
Concentration per Run 3	0.0007 ppm	0.0213 ppm	0.0023 ppm	0.0003 ppm	0.0010 ppm	-0.0017 ppm	0.0001 ppm
Recovery Percentage 1	1.329 %	4.412 %	5.230 %	2.562 %	8.586 %	-7.916 %	0.506 %
Concentration RSD	424.4 %	11.1 %	14.4 %	1.2 %	19.7 %	15.7 %	102.6 %

	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	118.6944 %	106.9073 %	109.6144 %	96.9050 %	100.1715 %	97.1216 %
Concentration per Run 1	0.0005 ppm	119.9161 %	107.3156 %	109.8945 %	96.8995 %	99.8774 %	96.9165 %
Concentration per Run 2	0.0006 ppm	118.6587 %	106.2478 %	109.4236 %	97.3692 %	99.6291 %	97.1837 %
Concentration per Run 3	0.0006 ppm	117.5083 %	107.1587 %	109.5251 %	96.4462 %	101.0080 %	97.2645 %
Recovery Percentage 1	11.742 %						
Concentration RSD	9.2 %	1.0 %	0.5 %	0.2 %	0.5 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: WG2011483-2d2 WG2011483
Analysis started at: 12/20/2024 1:57:59 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	0.0493 ppm	2.0073 ppm	0.1146 ppm	0.9394 ppm	1.9496 ppm	0.0494 ppm	9.6057 ppm
Concentration per Run 1	0.0496 ppm	2.0193 ppm	0.1131 ppm	0.9426 ppm	1.9560 ppm	0.0496 ppm	9.6063 ppm
Concentration per Run 2	0.0494 ppm	2.0100 ppm	0.1165 ppm	0.9440 ppm	1.9551 ppm	0.0494 ppm	9.6052 ppm
Concentration per Run 3	0.0489 ppm	1.9926 ppm	0.1142 ppm	0.9317 ppm	1.9377 ppm	0.0493 ppm	9.6056 ppm
Concentration RSD	0.8 %	0.7 %	1.5 %	0.7 %	0.5 %	0.3 %	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	0.0504 ppm	0.4926 ppm	0.1953 ppm	0.2537 ppm	1.0057 ppm	10.1539 ppm	0.0007 ppm
Concentration per Run 1	0.0506 ppm	0.4949 ppm	0.1973 ppm	0.2549 ppm	1.0075 ppm	10.2184 ppm	0.0005 ppm
Concentration per Run 2	0.0508 ppm	0.4926 ppm	0.1951 ppm	0.2537 ppm	1.0048 ppm	10.1730 ppm	0.0005 ppm
Concentration per Run 3	0.0499 ppm	0.4904 ppm	0.1934 ppm	0.2526 ppm	1.0048 ppm	10.0702 ppm	0.0009 ppm
Concentration RSD	0.9 %	0.5 %	1.0 %	0.5 %	0.2 %	0.7 %	34.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.8710 ppm	0.4766 ppm	0.9914 ppm	10.0388 ppm	0.4822 ppm	0.5148 ppm	0.4824 ppm
Concentration per Run 1	9.9570 ppm	0.4779 ppm	0.9898 ppm	10.0553 ppm	0.4856 ppm	0.5135 ppm	0.4848 ppm
Concentration per Run 2	9.8616 ppm	0.4760 ppm	0.9945 ppm	10.1810 ppm	0.4848 ppm	0.5175 ppm	0.4798 ppm
Concentration per Run 3	9.7944 ppm	0.4760 ppm	0.9899 ppm	9.8800 ppm	0.4760 ppm	0.5134 ppm	0.4828 ppm
Concentration RSD	0.8 %	0.2 %	0.3 %	1.5 %	1.1 %	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	0.1100 ppm	0.9138 ppm	0.9788 ppm	0.9654 ppm	0.9822 ppm	0.1168 ppm	0.4970 ppm
Concentration per Run 1	0.1114 ppm	0.9171 ppm	0.9836 ppm	0.9695 ppm	0.9917 ppm	0.1162 ppm	0.5007 ppm
Concentration per Run 2	0.1109 ppm	0.9183 ppm	0.9835 ppm	0.9674 ppm	0.9835 ppm	0.1187 ppm	0.4971 ppm
Concentration per Run 3	0.1076 ppm	0.9060 ppm	0.9692 ppm	0.9592 ppm	0.9714 ppm	0.1154 ppm	0.4933 ppm
Concentration RSD	1.9 %	0.7 %	0.8 %	0.6 %	1.0 %	1.5 %	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	0.4748 ppm	102.4494 %	103.8692 %	92.1336 %	90.2540 %	98.4496 %	92.1216 %
Concentration per Run 1	0.4790 ppm	101.8075 %	104.3486 %	92.4248 %	90.4834 %	98.8442 %	92.7859 %
Concentration per Run 2	0.4755 ppm	102.7178 %	103.9381 %	91.6696 %	90.5962 %	98.1368 %	91.7016 %
Concentration per Run 3	0.4700 ppm	102.8230 %	103.3210 %	92.3065 %	89.6824 %	98.3678 %	91.8774 %
Concentration RSD	0.9 %	0.5 %	0.5 %	0.4 %	0.6 %	0.4 %	0.6 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473618-01d2 WG2011483
Analysis started at: 12/20/2024 2:02:23 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	0.0027 ppm	110.3648 ppm	0.0913 ppm	0.0269 ppm	0.7658 ppm	0.0051 ppm	85.5568 ppm
Concentration per Run 1	0.0027 ppm	110.5502 ppm	0.0932 ppm	0.0261 ppm	0.7637 ppm	0.0052 ppm	85.9314 ppm
Concentration per Run 2	0.0027 ppm	109.9342 ppm	0.0887 ppm	0.0278 ppm	0.7661 ppm	0.0050 ppm	84.9050 ppm
Concentration per Run 3	0.0028 ppm	110.6099 ppm	0.0919 ppm	0.0267 ppm	0.7677 ppm	0.0052 ppm	85.8339 ppm
Concentration RSD	3.4 %	0.3 %	2.5 %	3.1 %	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	0.0052 ppm	0.0629 ppm	0.2309 ppm	0.2764 ppm	157.8260 ppm	7.5704 ppm	0.1406 ppm
Concentration per Run 1	0.0053 ppm	0.0628 ppm	0.2325 ppm	0.2771 ppm	158.4066 ppm	7.6280 ppm	0.1410 ppm
Concentration per Run 2	0.0054 ppm	0.0632 ppm	0.2304 ppm	0.2790 ppm	157.7240 ppm	7.5851 ppm	0.1411 ppm
Concentration per Run 3	0.0050 ppm	0.0626 ppm	0.2298 ppm	0.2731 ppm	157.3476 ppm	7.4982 ppm	0.1397 ppm
Concentration RSD	4.3 %	0.5 %	0.6 %	1.1 %	0.3 %	0.9 %	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	34.3953 ppm	3.3245 ppm	0.0114 ppm	1.3596 ppm	0.2353 ppm	1.2432 ppm	0.0071 ppm
Concentration per Run 1	34.6171 ppm	3.3338 ppm	0.0113 ppm	1.3692 ppm	0.2375 ppm	1.2485 ppm	0.0075 ppm
Concentration per Run 2	34.3193 ppm	3.3173 ppm	0.0116 ppm	1.3539 ppm	0.2343 ppm	1.2352 ppm	0.0057 ppm
Concentration per Run 3	34.2494 ppm	3.3224 ppm	0.0114 ppm	1.3556 ppm	0.2341 ppm	1.2459 ppm	0.0081 ppm
Concentration RSD	0.6 %	0.3 %	1.5 %	0.6 %	0.8 %	0.6 %	17.4 %

	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	7.3514 ppm	0.0467 ppm	0.4975 ppm	2.1662 ppm	0.0004 ppm	0.2384 ppm
Concentration per Run 1	0.0016 ppm	7.3985 ppm	0.0477 ppm	0.4963 ppm	2.1824 ppm	0.0008 ppm	0.2409 ppm
Concentration per Run 2	0.0000 ppm	7.4962 ppm	0.0457 ppm	0.4975 ppm	2.1667 ppm	0.0004 ppm	0.2373 ppm
Concentration per Run 3	-0.0004 ppm	7.1596 ppm	0.0466 ppm	0.4987 ppm	2.1495 ppm	0.0002 ppm	0.2370 ppm
Concentration RSD	268.9 %	2.4 %	2.1 %	0.2 %	0.8 %	68.6 %	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	1.1766 ppm	103.7663 %	108.8421 %	82.6866 %	114.0435 %	131.3918 %	116.4398 %
Concentration per Run 1	1.1835 ppm	103.8236 %	108.7461 %	82.5174 %	114.8316 %	131.0198 %	116.6344 %
Concentration per Run 2	1.1705 ppm	103.0314 %	108.8506 %	82.8153 %	112.6617 %	131.8708 %	116.3304 %
Concentration per Run 3	1.1756 ppm	104.4437 %	108.9297 %	82.7271 %	114.6372 %	131.2848 %	116.3546 %
Concentration RSD	0.6 %	0.7 %	0.1 %	0.2 %	1.1 %	0.3 %	0.1 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: WG2011483-3d2 WG2011483
Analysis started at: 12/20/2024 2:06:48 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	0.0484 ppm	127.9121 ppm	0.2163 ppm	0.8008 ppm	2.5474 ppm	0.0504 ppm	74.1285 ppm
Concentration per Run 1	0.0485 ppm	127.5277 ppm	0.2143 ppm	0.8021 ppm	2.5405 ppm	0.0502 ppm	73.6881 ppm
Concentration per Run 2	0.0485 ppm	128.4877 ppm	0.2177 ppm	0.8029 ppm	2.5420 ppm	0.0503 ppm	74.3621 ppm
Concentration per Run 3	0.0481 ppm	127.7210 ppm	0.2168 ppm	0.7973 ppm	2.5598 ppm	0.0507 ppm	74.3353 ppm
Concentration RSD	0.5 %	0.4 %	0.8 %	0.4 %	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	0.0488 ppm	0.5255 ppm	1.0085 ppm	0.5327 ppm	184.9746 ppm	18.1103 ppm	0.1670 ppm
Concentration per Run 1	0.0491 ppm	0.5271 ppm	1.0096 ppm	0.5321 ppm	184.1418 ppm	18.1086 ppm	0.1668 ppm
Concentration per Run 2	0.0489 ppm	0.5271 ppm	1.0108 ppm	0.5335 ppm	184.7528 ppm	18.0421 ppm	0.1655 ppm
Concentration per Run 3	0.0483 ppm	0.5223 ppm	1.0053 ppm	0.5324 ppm	186.0292 ppm	18.1803 ppm	0.1686 ppm
Concentration RSD	0.9 %	0.5 %	0.3 %	0.1 %	0.5 %	0.4 %	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	36.5433 ppm	3.8048 ppm	0.8937 ppm	11.0314 ppm	1.2244 ppm	1.7953 ppm	0.4231 ppm
Concentration per Run 1	36.6329 ppm	3.7865 ppm	0.8858 ppm	10.9405 ppm	1.2273 ppm	1.7947 ppm	0.4202 ppm
Concentration per Run 2	36.6225 ppm	3.8104 ppm	0.8972 ppm	11.1439 ppm	1.2266 ppm	1.8002 ppm	0.4279 ppm
Concentration per Run 3	36.3745 ppm	3.8175 ppm	0.8980 ppm	11.0099 ppm	1.2194 ppm	1.7911 ppm	0.4212 ppm
Concentration RSD	0.4 %	0.4 %	0.8 %	0.9 %	0.4 %	0.3 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1113 ppm	7.6639 ppm	0.8806 ppm	1.3321 ppm	3.2391 ppm	0.1127 ppm	0.7737 ppm
Concentration per Run 1	0.1127 ppm	7.5631 ppm	0.8788 ppm	1.3295 ppm	3.2487 ppm	0.1130 ppm	0.7724 ppm
Concentration per Run 2	0.1103 ppm	7.6786 ppm	0.8854 ppm	1.3298 ppm	3.2502 ppm	0.1124 ppm	0.7780 ppm
Concentration per Run 3	0.1109 ppm	7.7502 ppm	0.8778 ppm	1.3369 ppm	3.2186 ppm	0.1127 ppm	0.7707 ppm
Concentration RSD	1.1 %	1.2 %	0.5 %	0.3 %	0.6 %	0.3 %	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	1.6748 ppm	105.1965 %	110.2092 %	80.7714 %	115.0526 %	132.7771 %	117.4859 %
Concentration per Run 1	1.6757 ppm	104.8954 %	110.7685 %	80.5341 %	114.7987 %	133.4398 %	117.5593 %
Concentration per Run 2	1.6830 ppm	105.0079 %	109.9070 %	80.8730 %	114.8791 %	132.0848 %	117.3786 %
Concentration per Run 3	1.6659 ppm	105.6862 %	109.9522 %	80.9070 %	115.4799 %	132.8066 %	117.5197 %
Concentration RSD	0.5 %	0.4 %	0.4 %	0.3 %	0.3 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: WG2011483-4d2 WG2011483
Analysis started at: 12/20/2024 2:11:13 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	0.0029 ppm	113.3015 ppm	0.1571 ppm	0.0320 ppm	0.7789 ppm	0.0052 ppm	114.7101 ppm
Concentration per Run 1	0.0030 ppm	112.0511 ppm	0.1600 ppm	0.0324 ppm	0.7720 ppm	0.0052 ppm	114.2931 ppm
Concentration per Run 2	0.0029 ppm	114.2007 ppm	0.1538 ppm	0.0299 ppm	0.7854 ppm	0.0052 ppm	114.8124 ppm
Concentration per Run 3	0.0029 ppm	113.6526 ppm	0.1574 ppm	0.0336 ppm	0.7794 ppm	0.0053 ppm	115.0247 ppm
Concentration RSD	3.2 %	1.0 %	2.0 %	5.9 %	0.9 %	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	0.0061 ppm	0.0697 ppm	0.2507 ppm	0.3211 ppm	194.8917 ppm	8.5576 ppm	0.1459 ppm
Concentration per Run 1	0.0061 ppm	0.0704 ppm	0.2517 ppm	0.3215 ppm	195.2632 ppm	8.4949 ppm	0.1434 ppm
Concentration per Run 2	0.0060 ppm	0.0698 ppm	0.2487 ppm	0.3213 ppm	195.4186 ppm	8.6506 ppm	0.1480 ppm
Concentration per Run 3	0.0061 ppm	0.0688 ppm	0.2518 ppm	0.3205 ppm	193.9934 ppm	8.5273 ppm	0.1463 ppm
Concentration RSD	0.5 %	1.2 %	0.7 %	0.2 %	0.4 %	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	46.2527 ppm	3.3629 ppm	0.0158 ppm	1.5458 ppm	0.3113 ppm	1.3044 ppm	0.0115 ppm
Concentration per Run 1	46.6449 ppm	3.3579 ppm	0.0158 ppm	1.5233 ppm	0.3145 ppm	1.3122 ppm	0.0108 ppm
Concentration per Run 2	46.1511 ppm	3.3822 ppm	0.0163 ppm	1.5532 ppm	0.3100 ppm	1.3010 ppm	0.0112 ppm
Concentration per Run 3	45.9620 ppm	3.3486 ppm	0.0154 ppm	1.5610 ppm	0.3092 ppm	1.2999 ppm	0.0124 ppm
Concentration RSD	0.8 %	0.5 %	2.9 %	1.3 %	0.9 %	0.5 %	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	-0.0001 ppm	7.7034 ppm	0.0589 ppm	0.5368 ppm	2.5483 ppm	0.0013 ppm	0.3291 ppm
Concentration per Run 1	0.0006 ppm	7.8182 ppm	0.0595 ppm	0.5312 ppm	2.5692 ppm	0.0018 ppm	0.3308 ppm
Concentration per Run 2	-0.0009 ppm	7.6948 ppm	0.0587 ppm	0.5404 ppm	2.5443 ppm	0.0017 ppm	0.3295 ppm
Concentration per Run 3	0.0000 ppm	7.5972 ppm	0.0585 ppm	0.5387 ppm	2.5313 ppm	0.0005 ppm	0.3268 ppm
Concentration RSD	726.2 %	1.4 %	0.9 %	0.9 %	0.8 %	51.7 %	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	1.4573 ppm	103.0359 %	108.2564 %	80.6143 %	112.5604 %	130.1102 %	114.7846 %
Concentration per Run 1	1.4735 ppm	102.4203 %	108.1153 %	80.4675 %	112.4785 %	129.8401 %	114.7560 %
Concentration per Run 2	1.4513 ppm	103.5064 %	107.9779 %	80.4137 %	113.2029 %	130.1932 %	114.4042 %
Concentration per Run 3	1.4469 ppm	103.1810 %	108.6760 %	80.9618 %	111.9997 %	130.2973 %	115.1936 %
Concentration RSD	1.0 %	0.5 %	0.3 %	0.4 %	0.5 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: WG2011483-5d2 WG2011483
Analysis started at: 12/20/2024 2:15:38 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	0.0465 ppm	109.5321 ppm	0.2045 ppm	0.8627 ppm	2.4931 ppm	0.0488 ppm	92.4183 ppm
Concentration per Run 1	0.0467 ppm	109.2894 ppm	0.2031 ppm	0.8656 ppm	2.4863 ppm	0.0484 ppm	92.3394 ppm
Concentration per Run 2	0.0458 ppm	109.3154 ppm	0.2042 ppm	0.8516 ppm	2.4892 ppm	0.0487 ppm	92.4608 ppm
Concentration per Run 3	0.0471 ppm	109.9915 ppm	0.2062 ppm	0.8707 ppm	2.5038 ppm	0.0492 ppm	92.4546 ppm
Concentration RSD	1.5 %	0.4 %	0.8 %	1.1 %	0.4 %	0.9 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0469 ppm	0.4678 ppm	0.3946 ppm	0.5015 ppm	154.8917 ppm	17.3031 ppm	0.1361 ppm
Concentration per Run 1	0.0468 ppm	0.4694 ppm	0.3963 ppm	0.5075 ppm	154.6690 ppm	17.1191 ppm	0.1357 ppm
Concentration per Run 2	0.0465 ppm	0.4624 ppm	0.3912 ppm	0.4962 ppm	155.1750 ppm	17.3324 ppm	0.1357 ppm
Concentration per Run 3	0.0475 ppm	0.4716 ppm	0.3962 ppm	0.5009 ppm	154.8311 ppm	17.4578 ppm	0.1368 ppm
Concentration RSD	1.1 %	1.0 %	0.7 %	1.1 %	0.2 %	1.0 %	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	42.3573 ppm	3.6739 ppm	0.8459 ppm	11.0090 ppm	0.6382 ppm	1.7311 ppm	0.4355 ppm
Concentration per Run 1	42.7337 ppm	3.6729 ppm	0.8380 ppm	10.9332 ppm	0.6416 ppm	1.7361 ppm	0.4363 ppm
Concentration per Run 2	41.9238 ppm	3.6783 ppm	0.8374 ppm	11.0012 ppm	0.6320 ppm	1.7337 ppm	0.4333 ppm
Concentration per Run 3	42.4144 ppm	3.6703 ppm	0.8622 ppm	11.0925 ppm	0.6411 ppm	1.7235 ppm	0.4371 ppm
Concentration RSD	1.0 %	0.1 %	1.7 %	0.7 %	0.9 %	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	0.1141 ppm	7.7157 ppm	0.8673 ppm	1.3776 ppm	3.0074 ppm	0.1094 ppm	0.6609 ppm
Concentration per Run 1	0.1103 ppm	7.8211 ppm	0.8665 ppm	1.3759 ppm	3.0283 ppm	0.1105 ppm	0.6673 ppm
Concentration per Run 2	0.1146 ppm	7.6347 ppm	0.8575 ppm	1.3758 ppm	2.9731 ppm	0.1091 ppm	0.6561 ppm
Concentration per Run 3	0.1173 ppm	7.6912 ppm	0.8778 ppm	1.3812 ppm	3.0208 ppm	0.1086 ppm	0.6591 ppm
Concentration RSD	3.1 %	1.2 %	1.2 %	0.2 %	1.0 %	0.9 %	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	1.5673 ppm	102.9968 %	108.0411 %	80.4865 %	112.6309 %	130.1129 %	115.1888 %
Concentration per Run 1	1.5753 ppm	102.4621 %	108.1816 %	80.5637 %	113.1380 %	129.7436 %	115.2918 %
Concentration per Run 2	1.5448 ppm	104.2240 %	108.0705 %	80.4158 %	113.8985 %	130.4549 %	115.4243 %
Concentration per Run 3	1.5817 ppm	102.3043 %	107.8711 %	80.4799 %	110.8562 %	130.1402 %	114.8504 %
Concentration RSD	1.3 %	1.0 %	0.1 %	0.1 %	1.4 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: WG2011483-6d10 WG2011483
Analysis started at: 12/20/2024 2:20:04 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	0.0007 ppm	22.4149 ppm	0.0181 ppm	0.0062 ppm	0.1601 ppm	0.0011 ppm	18.2762 ppm
Concentration per Run 1	0.0006 ppm	22.4109 ppm	0.0189 ppm	0.0054 ppm	0.1597 ppm	0.0011 ppm	18.1838 ppm
Concentration per Run 2	0.0006 ppm	22.3898 ppm	0.0186 ppm	0.0057 ppm	0.1598 ppm	0.0011 ppm	18.2553 ppm
Concentration per Run 3	0.0008 ppm	22.4439 ppm	0.0169 ppm	0.0075 ppm	0.1608 ppm	0.0011 ppm	18.3896 ppm
Concentration RSD	22.1 %	0.1 %	5.8 %	18.3 %	0.4 %	2.0 %	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	0.0011 ppm	0.0140 ppm	0.0502 ppm	0.0581 ppm	35.3074 ppm	1.5222 ppm	0.0284 ppm
Concentration per Run 1	0.0012 ppm	0.0143 ppm	0.0510 ppm	0.0584 ppm	34.9716 ppm	1.5503 ppm	0.0296 ppm
Concentration per Run 2	0.0012 ppm	0.0141 ppm	0.0499 ppm	0.0583 ppm	35.2898 ppm	1.4974 ppm	0.0280 ppm
Concentration per Run 3	0.0011 ppm	0.0137 ppm	0.0497 ppm	0.0575 ppm	35.6609 ppm	1.5189 ppm	0.0276 ppm
Concentration RSD	5.0 %	2.3 %	1.4 %	0.9 %	1.0 %	1.7 %	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	7.7421 ppm	0.7208 ppm	0.0051 ppm	0.2569 ppm	0.0531 ppm	0.2515 ppm	0.0035 ppm
Concentration per Run 1	7.8615 ppm	0.7176 ppm	0.0053 ppm	0.2577 ppm	0.0552 ppm	0.2519 ppm	0.0016 ppm
Concentration per Run 2	7.7077 ppm	0.7202 ppm	0.0050 ppm	0.2594 ppm	0.0523 ppm	0.2517 ppm	0.0049 ppm
Concentration per Run 3	7.6572 ppm	0.7245 ppm	0.0051 ppm	0.2534 ppm	0.0517 ppm	0.2509 ppm	0.0040 ppm
Concentration RSD	1.4 %	0.5 %	3.3 %	1.2 %	3.5 %	0.2 %	48.5 %

	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	1.4006 ppm	0.0116 ppm	0.1031 ppm	0.4664 ppm	-0.0005 ppm	0.0510 ppm
Concentration per Run 1	-0.0006 ppm	1.4057 ppm	0.0122 ppm	0.1029 ppm	0.4722 ppm	-0.0008 ppm	0.0516 ppm
Concentration per Run 2	0.0005 ppm	1.4002 ppm	0.0118 ppm	0.1030 ppm	0.4645 ppm	-0.0009 ppm	0.0510 ppm
Concentration per Run 3	-0.0001 ppm	1.3960 ppm	0.0107 ppm	0.1035 ppm	0.4625 ppm	0.0003 ppm	0.0503 ppm
Concentration RSD	930.8 %	0.3 %	6.7 %	0.3 %	1.1 %	138.9 %	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	0.2613 ppm	102.5547 %	105.8691 %	92.8071 %	96.4053 %	106.9951 %	98.8688 %
Concentration per Run 1	0.2673 ppm	101.1136 %	106.8830 %	92.6514 %	95.9550 %	108.1669 %	99.1345 %
Concentration per Run 2	0.2594 ppm	102.7707 %	106.0720 %	92.8745 %	96.3690 %	106.7937 %	98.9178 %
Concentration per Run 3	0.2574 ppm	103.7798 %	104.6525 %	92.8954 %	96.8919 %	106.0248 %	98.5540 %
Concentration RSD	2.0 %	1.3 %	1.1 %	0.1 %	0.5 %	1.0 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: xL2473553-01d2 WG2011483
Analysis started at: 12/20/2024 2:24:30 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	-0.0004 ppm	58.0477 ppm	0.0082 ppm	0.0134 ppm	0.1482 ppm	0.0076 ppm	1,718.4338 [SIC 1000]
Concentration per Run 1	0.0000 ppm	58.2687 ppm	0.0095 ppm	0.0111 ppm	0.1484 ppm	0.0077 ppm	1,730.2056 ppm
Concentration per Run 2	-0.0006 ppm	58.1062 ppm	0.0078 ppm	0.0144 ppm	0.1483 ppm	0.0076 ppm	1,705.8850 ppm
Concentration per Run 3	-0.0007 ppm	57.7683 ppm	0.0071 ppm	0.0149 ppm	0.1479 ppm	0.0075 ppm	1,719.2108 ppm
Concentration RSD	85.2 %	0.4 %	15.2 %	15.5 %	0.2 %	1.0 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0077 ppm	0.0142 ppm	0.0509 ppm	0.0410 ppm	67.0239 ppm	2.5532 ppm	0.0967 ppm
Concentration per Run 1	-0.0078 ppm	0.0149 ppm	0.0518 ppm	0.0419 ppm	67.1406 ppm	2.5633 ppm	0.0983 ppm
Concentration per Run 2	-0.0077 ppm	0.0143 ppm	0.0510 ppm	0.0407 ppm	66.6690 ppm	2.5499 ppm	0.0961 ppm
Concentration per Run 3	-0.0076 ppm	0.0135 ppm	0.0500 ppm	0.0404 ppm	67.2621 ppm	2.5465 ppm	0.0957 ppm
Concentration RSD	1.6 %	5.1 %	1.8 %	1.9 %	0.5 %	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	1,111.5035 [SIC 1000]	5.6348 ppm	0.0023 ppm	0.5849 ppm	0.0268 ppm	0.0372 ppm	0.0008 ppm
Concentration per Run 1	1,123.7509 ppm	5.6488 ppm	0.0040 ppm	0.5930 ppm	0.0279 ppm	0.0373 ppm	-0.0003 ppm
Concentration per Run 2	1,105.2228 ppm	5.6127 ppm	0.0019 ppm	0.5825 ppm	0.0253 ppm	0.0366 ppm	0.0003 ppm
Concentration per Run 3	1,105.5367 ppm	5.6428 ppm	0.0011 ppm	0.5792 ppm	0.0271 ppm	0.0376 ppm	0.0025 ppm
Concentration RSD	1.0 %	0.3 %	65.0 %	1.2 %	5.1 %	1.5 %	178.3 %

	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	-0.0056 ppm	3.9683 ppm	0.0057 ppm	0.8536 ppm	2.4228 ppm	-0.0050 ppm	0.0891 ppm
Concentration per Run 1	-0.0060 ppm	4.0352 ppm	0.0036 ppm	0.8551 ppm	2.4506 ppm	-0.0041 ppm	0.0898 ppm
Concentration per Run 2	-0.0062 ppm	3.9779 ppm	0.0059 ppm	0.8527 ppm	2.4157 ppm	-0.0070 ppm	0.0888 ppm
Concentration per Run 3	-0.0047 ppm	3.8918 ppm	0.0077 ppm	0.8529 ppm	2.4020 ppm	-0.0040 ppm	0.0886 ppm
Concentration RSD	14.4 %	1.8 %	35.7 %	0.2 %	1.0 %	34.3 %	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	0.0709 ppm	76.3044 %	89.1167 %	54.4390 %	75.5528 %	95.2755 %	75.7399 %
Concentration per Run 1	0.0716 ppm	75.1697 %	88.9916 %	53.8759 %	75.2013 %	95.2317 %	75.5947 %
Concentration per Run 2	0.0706 ppm	76.5764 %	89.5839 %	54.8228 %	75.6405 %	95.7613 %	75.8610 %
Concentration per Run 3	0.0707 ppm	77.1671 %	88.7744 %	54.6182 %	75.8167 %	94.8336 %	75.7640 %
Concentration RSD	0.8 %	1.3 %	0.5 %	0.9 %	0.4 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473618-02d2 WG2011483
Analysis started at: 12/20/2024 2:28:55 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	0.0015 ppm	111.3288 ppm	0.0443 ppm	0.0719 ppm	1.1181 ppm	0.0046 ppm	307.2247 ppm
Concentration per Run 1	0.0018 ppm	110.8591 ppm	0.0462 ppm	0.0740 ppm	1.1201 ppm	0.0045 ppm	308.5437 ppm
Concentration per Run 2	0.0014 ppm	111.7193 ppm	0.0422 ppm	0.0690 ppm	1.1187 ppm	0.0047 ppm	307.2482 ppm
Concentration per Run 3	0.0013 ppm	111.4078 ppm	0.0444 ppm	0.0728 ppm	1.1156 ppm	0.0045 ppm	305.8822 ppm
Concentration RSD	17.7 %	0.4 %	4.5 %	3.6 %	0.2 %	2.4 %	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	-0.0007 ppm	0.0587 ppm	0.3302 ppm	0.2195 ppm	134.3662 ppm	20.7225 ppm	0.1708 ppm
Concentration per Run 1	-0.0006 ppm	0.0593 ppm	0.3337 ppm	0.2219 ppm	135.3231 ppm	20.5553 ppm	0.1669 ppm
Concentration per Run 2	-0.0008 ppm	0.0588 ppm	0.3302 ppm	0.2194 ppm	133.4233 ppm	20.6355 ppm	0.1723 ppm
Concentration per Run 3	-0.0006 ppm	0.0581 ppm	0.3266 ppm	0.2173 ppm	134.3522 ppm	20.9766 ppm	0.1734 ppm
Concentration RSD	22.1 %	1.1 %	1.1 %	1.1 %	0.7 %	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	49.9443 ppm	3.1172 ppm	0.0143 ppm	8.7447 ppm	0.3920 ppm	0.2592 ppm	0.0003 ppm
Concentration per Run 1	50.3933 ppm	3.1301 ppm	0.0143 ppm	8.6280 ppm	0.3961 ppm	0.2608 ppm	-0.0002 ppm
Concentration per Run 2	49.9077 ppm	3.1020 ppm	0.0145 ppm	8.8163 ppm	0.3915 ppm	0.2584 ppm	0.0010 ppm
Concentration per Run 3	49.5321 ppm	3.1194 ppm	0.0140 ppm	8.7898 ppm	0.3885 ppm	0.2583 ppm	0.0002 ppm
Concentration RSD	0.9 %	0.5 %	1.9 %	1.2 %	1.0 %	0.6 %	168.8 %

	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	-0.0057 ppm	3.0846 ppm	0.0103 ppm	1.4051 ppm	5.9952 ppm	0.0036 ppm	0.3178 ppm
Concentration per Run 1	-0.0056 ppm	3.1510 ppm	0.0104 ppm	1.4050 ppm	6.0530 ppm	0.0042 ppm	0.3202 ppm
Concentration per Run 2	-0.0071 ppm	3.0813 ppm	0.0100 ppm	1.4074 ppm	5.9975 ppm	0.0031 ppm	0.3188 ppm
Concentration per Run 3	-0.0044 ppm	3.0215 ppm	0.0105 ppm	1.4029 ppm	5.9352 ppm	0.0037 ppm	0.3144 ppm
Concentration RSD	24.0 %	2.1 %	2.5 %	0.2 %	1.0 %	15.9 %	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	0.4214 ppm	100.3329 %	106.7826 %	73.2643 %	106.1347 %	124.8307 %	109.2071 %
Concentration per Run 1	0.4238 ppm	99.4666 %	106.0907 %	73.0752 %	106.1584 %	124.1207 %	109.1958 %
Concentration per Run 2	0.4201 ppm	100.2950 %	107.4587 %	73.3908 %	106.2238 %	125.3169 %	109.2983 %
Concentration per Run 3	0.4202 ppm	101.2371 %	106.7983 %	73.3270 %	106.0220 %	125.0544 %	109.1273 %
Concentration RSD	0.5 %	0.9 %	0.6 %	0.2 %	0.1 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473618-03d2 WG2011483
Analysis started at: 12/20/2024 2:33:20 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	0.0019 ppm	57.8485 ppm	0.0447 ppm	0.0233 ppm	0.4651 ppm	0.0051 ppm	12.2686 ppm
Concentration per Run 1	0.0021 ppm	57.6909 ppm	0.0464 ppm	0.0232 ppm	0.4631 ppm	0.0051 ppm	12.3373 ppm
Concentration per Run 2	0.0021 ppm	57.9410 ppm	0.0426 ppm	0.0237 ppm	0.4686 ppm	0.0051 ppm	12.2513 ppm
Concentration per Run 3	0.0015 ppm	57.9135 ppm	0.0452 ppm	0.0228 ppm	0.4636 ppm	0.0050 ppm	12.2172 ppm
Concentration RSD	18.2 %	0.2 %	4.3 %	2.0 %	0.7 %	1.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0016 ppm	0.0994 ppm	0.3059 ppm	0.1889 ppm	160.3673 ppm	14.3577 ppm	0.1190 ppm
Concentration per Run 1	0.0019 ppm	0.1003 ppm	0.3080 ppm	0.1914 ppm	160.4752 ppm	14.1793 ppm	0.1178 ppm
Concentration per Run 2	0.0016 ppm	0.0994 ppm	0.3057 ppm	0.1895 ppm	160.6522 ppm	14.4996 ppm	0.1206 ppm
Concentration per Run 3	0.0012 ppm	0.0983 ppm	0.3039 ppm	0.1858 ppm	159.9745 ppm	14.3944 ppm	0.1187 ppm
Concentration RSD	24.8 %	1.0 %	0.7 %	1.5 %	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	35.1704 ppm	4.3281 ppm	0.0119 ppm	1.8305 ppm	0.6306 ppm	0.1756 ppm	0.0024 ppm
Concentration per Run 1	35.4037 ppm	4.3346 ppm	0.0115 ppm	1.8166 ppm	0.6330 ppm	0.1771 ppm	0.0034 ppm
Concentration per Run 2	35.1963 ppm	4.3237 ppm	0.0121 ppm	1.8406 ppm	0.6321 ppm	0.1728 ppm	0.0009 ppm
Concentration per Run 3	34.9114 ppm	4.3259 ppm	0.0121 ppm	1.8342 ppm	0.6267 ppm	0.1768 ppm	0.0028 ppm
Concentration RSD	0.7 %	0.1 %	3.0 %	0.7 %	0.5 %	1.4 %	54.9 %

	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	3.3349 ppm	0.0061 ppm	0.0947 ppm	4.1722 ppm	0.0008 ppm	0.2919 ppm
Concentration per Run 1	-0.0032 ppm	3.4189 ppm	0.0071 ppm	0.0939 ppm	4.2095 ppm	0.0016 ppm	0.2918 ppm
Concentration per Run 2	-0.0008 ppm	3.3299 ppm	0.0056 ppm	0.0957 ppm	4.1790 ppm	0.0011 ppm	0.2920 ppm
Concentration per Run 3	-0.0031 ppm	3.2558 ppm	0.0056 ppm	0.0945 ppm	4.1283 ppm	-0.0004 ppm	0.2918 ppm
Concentration RSD	56.8 %	2.4 %	14.1 %	1.0 %	1.0 %	129.6 %	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	0.3484 ppm	106.3711 %	109.9552 %	85.2510 %	111.7091 %	126.7438 %	114.8358 %
Concentration per Run 1	0.3485 ppm	105.4604 %	109.3748 %	85.1156 %	110.6705 %	125.5569 %	114.9637 %
Concentration per Run 2	0.3489 ppm	106.0648 %	110.3549 %	85.5319 %	111.4216 %	127.2635 %	114.8923 %
Concentration per Run 3	0.3478 ppm	107.5880 %	110.1359 %	85.1055 %	113.0352 %	127.4109 %	114.6515 %
Concentration RSD	0.2 %	1.0 %	0.5 %	0.3 %	1.1 %	0.8 %	0.1 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: CCV
Analysis started at: 12/20/2024 2:37:46 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	0.4927 ppm	0.4807 ppm	0.4626 ppm	0.4887 ppm	0.4924 ppm	0.5013 ppm	0.4901 ppm
Concentration per Run 1	0.4940 ppm	0.4816 ppm	0.4664 ppm	0.4870 ppm	0.4915 ppm	0.5033 ppm	0.4962 ppm
Concentration per Run 2	0.4953 ppm	0.4815 ppm	0.4617 ppm	0.4907 ppm	0.4897 ppm	0.4998 ppm	0.4849 ppm
Concentration per Run 3	0.4888 ppm	0.4792 ppm	0.4596 ppm	0.4885 ppm	0.4960 ppm	0.5006 ppm	0.4891 ppm
Recovery Percentage 1	98.542 %	96.148 %	92.520 %	97.743 %	98.483 %	100.252 %	98.014 %
Concentration RSD	0.7 %	0.3 %	0.7 %	0.4 %	0.7 %	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	0.4808 ppm	0.5032 ppm	0.4882 ppm	0.4974 ppm	0.5183 ppm	5.1570 ppm	0.4976 ppm
Concentration per Run 1	0.4812 ppm	0.5037 ppm	0.4890 ppm	0.4969 ppm	0.5225 ppm	5.1448 ppm	0.4929 ppm
Concentration per Run 2	0.4814 ppm	0.5050 ppm	0.4900 ppm	0.5000 ppm	0.5166 ppm	5.1316 ppm	0.4948 ppm
Concentration per Run 3	0.4799 ppm	0.5008 ppm	0.4857 ppm	0.4953 ppm	0.5157 ppm	5.1946 ppm	0.5051 ppm
Recovery Percentage 1	96.161 %	100.632 %	97.649 %	99.480 %	103.653 %	103.140 %	99.525 %
Concentration RSD	0.2 %	0.4 %	0.5 %	0.5 %	0.7 %	0.6 %	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	0.4965 ppm	0.4811 ppm	0.5001 ppm	9.9676 ppm	0.5036 ppm	0.4842 ppm	0.5025 ppm
Concentration per Run 1	0.4978 ppm	0.4838 ppm	0.4952 ppm	9.8939 ppm	0.5038 ppm	0.4856 ppm	0.5037 ppm
Concentration per Run 2	0.4977 ppm	0.4784 ppm	0.5020 ppm	9.9051 ppm	0.5064 ppm	0.4849 ppm	0.5033 ppm
Concentration per Run 3	0.4941 ppm	0.4811 ppm	0.5033 ppm	10.1038 ppm	0.5006 ppm	0.4820 ppm	0.5004 ppm
Recovery Percentage 1	99.305 %	96.214 %	100.028 %	99.676 %	100.721 %	96.833 %	100.492 %
Concentration RSD	0.4 %	0.6 %	0.9 %	1.2 %	0.6 %	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	0.4636 ppm	5.5384 ppm	0.5144 ppm	0.5173 ppm	0.4937 ppm	0.4873 ppm	0.4872 ppm
Concentration per Run 1	0.4684 ppm	5.5238 ppm	0.5134 ppm	0.5157 ppm	0.4964 ppm	0.4913 ppm	0.4889 ppm
Concentration per Run 2	0.4626 ppm	5.5713 ppm	0.5123 ppm	0.5163 ppm	0.4954 ppm	0.4855 ppm	0.4878 ppm
Concentration per Run 3	0.4598 ppm	5.5201 ppm	0.5175 ppm	0.5199 ppm	0.4894 ppm	0.4851 ppm	0.4850 ppm
Recovery Percentage 1	92.717 %	105.493 %	102.882 %	103.464 %	98.749 %	97.466 %	97.442 %
Concentration RSD	1.0 %	0.5 %	0.5 %	0.4 %	0.8 %	0.7 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4905 ppm	104.3656 %	104.0480 %	95.9182 %	91.2350 %	98.9681 %	93.1637 %
Concentration per Run 1	0.4910 ppm	103.7934 %	103.1925 %	95.0140 %	91.2185 %	98.3122 %	92.7545 %
Concentration per Run 2	0.4907 ppm	104.0916 %	104.6749 %	96.3202 %	90.7929 %	99.7721 %	93.7337 %
Concentration per Run 3	0.4897 ppm	105.2119 %	104.2767 %	96.4205 %	91.6935 %	98.8199 %	93.0029 %
Recovery Percentage 1	98.091 %						
Concentration RSD	0.1 %	0.7 %	0.7 %	0.8 %	0.5 %	0.7 %	0.5 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: CCB
Analysis started at: 12/20/2024 2:42:10 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	0.0043 ppm	0.0014 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0021 ppm
Concentration per Run 1	0.0002 ppm	0.0043 ppm	0.0016 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0026 ppm
Concentration per Run 2	0.0000 ppm	0.0063 ppm	0.0012 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0034 ppm
Concentration per Run 3	0.0001 ppm	0.0023 ppm	0.0013 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm	-0.0003 ppm
Recovery Percentage 1	1.675 %	4.330 %	27.615 %	0.289 %	1.169 %	0.788 %	-2.100 %
Concentration RSD	95.1 %	45.7 %	16.6 %	296.8 %	33.8 %	18.3 %	76.6 %

	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	0.0005 ppm	0.0012 ppm	0.0163 ppm	0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0007 ppm	0.0017 ppm	0.0151 ppm	0.0007 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	-0.0004 ppm	0.0006 ppm	0.0011 ppm	0.0182 ppm	-0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0007 ppm	0.0157 ppm	-0.0002 ppm
Recovery Percentage 1	1.261 %	-1.184 %	-2.019 %	5.468 %	2.311 %	0.653 %	1.479 %
Concentration RSD	122.4 %	157.0 %	70.6 %	34.1 %	44.0 %	10.3 %	302.4 %

	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	-0.0012 ppm	0.0001 ppm	0.0020 ppm	-0.0127 ppm	-0.0006 ppm	0.0002 ppm	0.0018 ppm
Concentration per Run 1	-0.0013 ppm	0.0000 ppm	0.0018 ppm	-0.0144 ppm	-0.0009 ppm	0.0008 ppm	0.0026 ppm
Concentration per Run 2	-0.0001 ppm	0.0002 ppm	0.0024 ppm	-0.0110 ppm	-0.0005 ppm	0.0010 ppm	-0.0003 ppm
Concentration per Run 3	-0.0022 ppm	0.0001 ppm	0.0017 ppm	-0.0128 ppm	-0.0003 ppm	-0.0012 ppm	0.0030 ppm
Recovery Percentage 1	-1.187 %	1.099 %	3.933 %	-0.636 %	-2.292 %	1.934 %	3.584 %
Concentration RSD	89.4 %	118.9 %	19.0 %	13.2 %	47.5 %	609.8 %	99.9 %

	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	-0.0011 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 1	-0.0011 ppm	-0.0005 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 2	0.0004 ppm	-0.0021 ppm	0.0010 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 3	-0.0008 ppm	-0.0006 ppm	0.0011 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm
Recovery Percentage 1	-5.278 %	-0.220 %	1.348 %	0.129 %	-0.066 %	1.031 %	0.665 %
Concentration RSD	148.6 %	82.3 %	107.2 %	365.8 %	914.7 %	190.7 %	163.8 %

	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	99.1164 %	101.7544 %	96.3187 %	93.9699 %	100.2488 %	95.3502 %
Concentration per Run 1	0.0002 ppm	98.0461 %	100.9754 %	95.4218 %	94.2506 %	99.1502 %	95.3143 %
Concentration per Run 2	0.0001 ppm	99.0284 %	101.8586 %	96.3360 %	93.5061 %	100.8649 %	95.4037 %
Concentration per Run 3	0.0002 ppm	100.2747 %	102.4293 %	97.1984 %	94.1531 %	100.7313 %	95.3326 %
Recovery Percentage 1	3.222 %						
Concentration RSD	53.7 %	1.1 %	0.7 %	0.9 %	0.4 %	1.0 %	0.0 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473618-04d2 WG2011483
Analysis started at: 12/20/2024 2:47:17 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	0.0013 ppm	41.6764 ppm	0.0228 ppm	0.0186 ppm	0.3018 ppm	0.0037 ppm	11.5290 ppm
Concentration per Run 1	0.0011 ppm	41.5682 ppm	0.0227 ppm	0.0188 ppm	0.2997 ppm	0.0036 ppm	11.5648 ppm
Concentration per Run 2	0.0012 ppm	41.7808 ppm	0.0236 ppm	0.0174 ppm	0.3020 ppm	0.0037 ppm	11.5246 ppm
Concentration per Run 3	0.0014 ppm	41.6803 ppm	0.0220 ppm	0.0196 ppm	0.3037 ppm	0.0036 ppm	11.4975 ppm
Concentration RSD	11.6 %	0.3 %	3.6 %	6.0 %	0.7 %	1.5 %	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	0.0012 ppm	0.0660 ppm	0.1221 ppm	0.1353 ppm	102.0198 ppm	11.6556 ppm	0.1004 ppm
Concentration per Run 1	0.0012 ppm	0.0661 ppm	0.1218 ppm	0.1345 ppm	102.1571 ppm	11.6609 ppm	0.1007 ppm
Concentration per Run 2	0.0011 ppm	0.0654 ppm	0.1219 ppm	0.1352 ppm	101.6952 ppm	11.6238 ppm	0.1006 ppm
Concentration per Run 3	0.0012 ppm	0.0666 ppm	0.1226 ppm	0.1362 ppm	102.2073 ppm	11.6821 ppm	0.0997 ppm
Concentration RSD	5.7 %	0.9 %	0.3 %	0.6 %	0.3 %	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	84.3286 ppm	2.5642 ppm	0.0013 ppm	1.8403 ppm	0.7630 ppm	0.0907 ppm	0.0022 ppm
Concentration per Run 1	84.0671 ppm	2.5710 ppm	0.0015 ppm	1.8392 ppm	0.7612 ppm	0.0913 ppm	0.0025 ppm
Concentration per Run 2	84.0434 ppm	2.5560 ppm	0.0012 ppm	1.8528 ppm	0.7613 ppm	0.0902 ppm	0.0010 ppm
Concentration per Run 3	84.8754 ppm	2.5656 ppm	0.0011 ppm	1.8288 ppm	0.7666 ppm	0.0905 ppm	0.0032 ppm
Concentration RSD	0.6 %	0.3 %	16.3 %	0.7 %	0.4 %	0.6 %	49.2 %

	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	-0.0025 ppm	3.5774 ppm	0.0033 ppm	0.0501 ppm	2.3931 ppm	0.0007 ppm	0.1697 ppm
Concentration per Run 1	-0.0021 ppm	3.6086 ppm	0.0032 ppm	0.0497 ppm	2.3845 ppm	0.0011 ppm	0.1697 ppm
Concentration per Run 2	-0.0035 ppm	3.5556 ppm	0.0033 ppm	0.0501 ppm	2.3853 ppm	0.0005 ppm	0.1692 ppm
Concentration per Run 3	-0.0018 ppm	3.5680 ppm	0.0035 ppm	0.0504 ppm	2.4094 ppm	0.0006 ppm	0.1701 ppm
Concentration RSD	37.3 %	0.8 %	5.5 %	0.7 %	0.6 %	47.9 %	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	0.3187 ppm	110.1990 %	107.8715 %	90.0797 %	105.8923 %	118.2645 %	108.6618 %
Concentration per Run 1	0.3182 ppm	110.8295 %	107.4173 %	90.6452 %	106.3474 %	117.8537 %	108.9930 %
Concentration per Run 2	0.3171 ppm	110.5183 %	108.4651 %	89.3917 %	106.1294 %	118.5412 %	107.9101 %
Concentration per Run 3	0.3209 ppm	109.2492 %	107.7322 %	90.2022 %	105.2001 %	118.3985 %	109.0824 %
Concentration RSD	0.6 %	0.8 %	0.5 %	0.7 %	0.6 %	0.3 %	0.6 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473618-07d2 WG2011483
Analysis started at: 12/20/2024 2:51:52 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	0.0005 ppm	29.1616 ppm	0.0389 ppm	0.0405 ppm	0.1298 ppm	0.0016 ppm	827.5967 ppm
Concentration per Run 1	0.0004 ppm	29.1106 ppm	0.0399 ppm	0.0417 ppm	0.1297 ppm	0.0016 ppm	823.0366 ppm
Concentration per Run 2	0.0006 ppm	29.3200 ppm	0.0383 ppm	0.0403 ppm	0.1304 ppm	0.0016 ppm	832.5969 ppm
Concentration per Run 3	0.0004 ppm	29.0543 ppm	0.0386 ppm	0.0394 ppm	0.1293 ppm	0.0016 ppm	827.1567 ppm
Concentration RSD	21.2 %	0.5 %	2.3 %	2.9 %	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	-0.0043 ppm	0.0316 ppm	0.0726 ppm	0.2205 ppm	78.6730 ppm	7.4227 ppm	0.0520 ppm
Concentration per Run 1	-0.0043 ppm	0.0315 ppm	0.0739 ppm	0.2239 ppm	78.3655 ppm	7.4418 ppm	0.0517 ppm
Concentration per Run 2	-0.0044 ppm	0.0314 ppm	0.0719 ppm	0.2195 ppm	79.0092 ppm	7.4243 ppm	0.0550 ppm
Concentration per Run 3	-0.0042 ppm	0.0318 ppm	0.0721 ppm	0.2181 ppm	78.6444 ppm	7.4019 ppm	0.0492 ppm
Concentration RSD	1.8 %	0.6 %	1.5 %	1.4 %	0.4 %	0.3 %	5.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	487.4049 ppm	1.6103 ppm	0.0070 ppm	2.2618 ppm	0.0836 ppm	0.1108 ppm	0.0021 ppm
Concentration per Run 1	491.5504 ppm	1.6043 ppm	0.0069 ppm	2.2493 ppm	0.0838 ppm	0.1122 ppm	0.0007 ppm
Concentration per Run 2	486.9465 ppm	1.6188 ppm	0.0071 ppm	2.2834 ppm	0.0830 ppm	0.1097 ppm	0.0038 ppm
Concentration per Run 3	483.7178 ppm	1.6077 ppm	0.0069 ppm	2.2527 ppm	0.0841 ppm	0.1105 ppm	0.0019 ppm
Concentration RSD	0.8 %	0.5 %	1.7 %	0.8 %	0.7 %	1.2 %	74.2 %

	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	-0.0018 ppm	7.3628 ppm	0.0034 ppm	0.6613 ppm	2.5412 ppm	0.0020 ppm	0.2765 ppm
Concentration per Run 1	-0.0011 ppm	7.5282 ppm	0.0037 ppm	0.6607 ppm	2.5689 ppm	0.0008 ppm	0.2794 ppm
Concentration per Run 2	-0.0034 ppm	7.2306 ppm	0.0035 ppm	0.6649 ppm	2.5316 ppm	0.0034 ppm	0.2760 ppm
Concentration per Run 3	-0.0007 ppm	7.3295 ppm	0.0029 ppm	0.6583 ppm	2.5230 ppm	0.0017 ppm	0.2739 ppm
Concentration RSD	84.3 %	2.1 %	12.2 %	0.5 %	1.0 %	66.7 %	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	0.1538 ppm	87.1462 %	95.9444 %	63.6269 %	84.7115 %	101.6543 %	84.9744 %
Concentration per Run 1	0.1558 ppm	86.1068 %	96.4296 %	63.4383 %	84.5403 %	102.2506 %	84.8435 %
Concentration per Run 2	0.1528 ppm	87.6570 %	95.9056 %	63.3567 %	85.0851 %	101.6557 %	84.7427 %
Concentration per Run 3	0.1528 ppm	87.6749 %	95.4979 %	64.0857 %	84.5090 %	101.0565 %	85.3368 %
Concentration RSD	1.1 %	1.0 %	0.5 %	0.6 %	0.4 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473618-08d2 WG2011483
Analysis started at: 12/20/2024 2:56:18 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	0.0029 ppm	125.5275 ppm	0.1129 ppm	0.0449 ppm	0.8174 ppm	0.0062 ppm	167.5609 ppm
Concentration per Run 1	0.0036 ppm	126.0777 ppm	0.1141 ppm	0.0447 ppm	0.8221 ppm	0.0062 ppm	167.7300 ppm
Concentration per Run 2	0.0028 ppm	125.6361 ppm	0.1136 ppm	0.0451 ppm	0.8167 ppm	0.0062 ppm	167.2476 ppm
Concentration per Run 3	0.0025 ppm	124.8688 ppm	0.1110 ppm	0.0451 ppm	0.8135 ppm	0.0061 ppm	167.7052 ppm
Concentration RSD	20.1 %	0.5 %	1.5 %	0.5 %	0.5 %	0.7 %	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	0.0010 ppm	0.0695 ppm	0.1495 ppm	0.2854 ppm	186.1029 ppm	8.1459 ppm	0.1311 ppm
Concentration per Run 1	0.0012 ppm	0.0707 ppm	0.1511 ppm	0.2870 ppm	186.0202 ppm	8.1564 ppm	0.1317 ppm
Concentration per Run 2	0.0010 ppm	0.0699 ppm	0.1489 ppm	0.2843 ppm	186.3687 ppm	8.1692 ppm	0.1321 ppm
Concentration per Run 3	0.0008 ppm	0.0680 ppm	0.1485 ppm	0.2850 ppm	185.9198 ppm	8.1121 ppm	0.1293 ppm
Concentration RSD	19.1 %	2.0 %	0.9 %	0.5 %	0.1 %	0.4 %	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	73.3987 ppm	4.1347 ppm	0.0100 ppm	3.2240 ppm	0.2384 ppm	0.6331 ppm	0.0089 ppm
Concentration per Run 1	74.0653 ppm	4.1153 ppm	0.0101 ppm	3.2427 ppm	0.2412 ppm	0.6351 ppm	0.0094 ppm
Concentration per Run 2	73.1953 ppm	4.1479 ppm	0.0105 ppm	3.2267 ppm	0.2366 ppm	0.6364 ppm	0.0105 ppm
Concentration per Run 3	72.9355 ppm	4.1409 ppm	0.0096 ppm	3.2025 ppm	0.2374 ppm	0.6278 ppm	0.0069 ppm
Concentration RSD	0.8 %	0.4 %	4.5 %	0.6 %	1.0 %	0.7 %	20.7 %

	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	7.3858 ppm	0.0214 ppm	0.6450 ppm	2.8475 ppm	0.0014 ppm	0.3373 ppm
Concentration per Run 1	-0.0006 ppm	7.5009 ppm	0.0212 ppm	0.6491 ppm	2.8779 ppm	0.0017 ppm	0.3377 ppm
Concentration per Run 2	-0.0022 ppm	7.3688 ppm	0.0211 ppm	0.6441 ppm	2.8358 ppm	0.0015 ppm	0.3369 ppm
Concentration per Run 3	-0.0028 ppm	7.2875 ppm	0.0219 ppm	0.6418 ppm	2.8289 ppm	0.0011 ppm	0.3372 ppm
Concentration RSD	62.8 %	1.5 %	2.1 %	0.6 %	0.9 %	23.5 %	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	0.8684 ppm	103.1623 %	109.0210 %	79.0886 %	123.6586 %	145.7760 %	126.7575 %
Concentration per Run 1	0.8789 ppm	101.8565 %	109.3202 %	78.8800 %	122.0416 %	146.4244 %	126.7791 %
Concentration per Run 2	0.8674 ppm	103.5902 %	108.6409 %	78.9083 %	124.2661 %	145.0855 %	126.8547 %
Concentration per Run 3	0.8589 ppm	104.0402 %	109.1018 %	79.4774 %	124.6682 %	145.8180 %	126.6386 %
Concentration RSD	1.2 %	1.1 %	0.3 %	0.4 %	1.1 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473618-10d2 WG2011483
Analysis started at: 12/20/2024 3:00:44 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	0.0016 ppm	45.3813 ppm	0.0343 ppm	0.0177 ppm	0.3240 ppm	0.0031 ppm	13.0916 ppm
Concentration per Run 1	0.0015 ppm	45.2660 ppm	0.0342 ppm	0.0187 ppm	0.3223 ppm	0.0031 ppm	13.0031 ppm
Concentration per Run 2	0.0017 ppm	45.4315 ppm	0.0354 ppm	0.0172 ppm	0.3250 ppm	0.0031 ppm	13.1017 ppm
Concentration per Run 3	0.0017 ppm	45.4464 ppm	0.0333 ppm	0.0172 ppm	0.3246 ppm	0.0032 ppm	13.1699 ppm
Concentration RSD	5.7 %	0.2 %	2.9 %	4.8 %	0.5 %	1.3 %	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	0.0010 ppm	0.0696 ppm	0.1939 ppm	0.2524 ppm	117.8759 ppm	12.9809 ppm	0.0971 ppm
Concentration per Run 1	0.0010 ppm	0.0697 ppm	0.1954 ppm	0.2533 ppm	117.0758 ppm	12.9927 ppm	0.0979 ppm
Concentration per Run 2	0.0011 ppm	0.0696 ppm	0.1934 ppm	0.2524 ppm	118.0546 ppm	13.0270 ppm	0.0976 ppm
Concentration per Run 3	0.0010 ppm	0.0695 ppm	0.1929 ppm	0.2514 ppm	118.4974 ppm	12.9230 ppm	0.0958 ppm
Concentration RSD	8.2 %	0.2 %	0.7 %	0.4 %	0.6 %	0.4 %	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	38.4061 ppm	2.6839 ppm	0.0064 ppm	2.1736 ppm	0.5610 ppm	0.1952 ppm	0.0000 ppm
Concentration per Run 1	38.6552 ppm	2.6692 ppm	0.0066 ppm	2.1795 ppm	0.5618 ppm	0.1951 ppm	0.0003 ppm
Concentration per Run 2	38.2697 ppm	2.6872 ppm	0.0063 ppm	2.1841 ppm	0.5602 ppm	0.1942 ppm	0.0015 ppm
Concentration per Run 3	38.2934 ppm	2.6954 ppm	0.0063 ppm	2.1571 ppm	0.5609 ppm	0.1964 ppm	-0.0016 ppm
Concentration RSD	0.6 %	0.5 %	2.4 %	0.7 %	0.1 %	0.6 %	4,149.1 %

	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	-0.0044 ppm	3.6617 ppm	0.0043 ppm	0.0637 ppm	3.0988 ppm	0.0006 ppm	0.2143 ppm
Concentration per Run 1	-0.0040 ppm	3.7014 ppm	0.0049 ppm	0.0635 ppm	3.1142 ppm	0.0014 ppm	0.2158 ppm
Concentration per Run 2	-0.0034 ppm	3.6457 ppm	0.0041 ppm	0.0636 ppm	3.0950 ppm	0.0003 ppm	0.2139 ppm
Concentration per Run 3	-0.0056 ppm	3.6380 ppm	0.0041 ppm	0.0639 ppm	3.0871 ppm	0.0000 ppm	0.2133 ppm
Concentration RSD	26.4 %	0.9 %	10.6 %	0.3 %	0.4 %	124.4 %	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	0.3953 ppm	105.6961 %	108.6728 %	87.3661 %	104.9069 %	118.4059 %	107.5733 %
Concentration per Run 1	0.3975 ppm	105.3872 %	109.5514 %	87.1045 %	105.2242 %	119.1249 %	107.6114 %
Concentration per Run 2	0.3952 ppm	106.0638 %	108.1091 %	87.6270 %	105.2869 %	118.0050 %	107.5965 %
Concentration per Run 3	0.3931 ppm	105.6372 %	108.3578 %	87.3667 %	104.2097 %	118.0878 %	107.5120 %
Concentration RSD	0.6 %	0.3 %	0.7 %	0.3 %	0.6 %	0.5 %	0.0 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473553-01d4 WG2011483
Analysis started at: 12/20/2024 3:05:09 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	-0.0002 ppm	28.5213 ppm	0.0060 ppm	0.0076 ppm	0.0740 ppm	0.0039 ppm	930.1125 ppm
Concentration per Run 1	-0.0004 ppm	28.4980 ppm	0.0093 ppm	0.0073 ppm	0.0742 ppm	0.0039 ppm	927.3919 ppm
Concentration per Run 2	-0.0001 ppm	28.5339 ppm	0.0032 ppm	0.0071 ppm	0.0739 ppm	0.0039 ppm	931.7610 ppm
Concentration per Run 3	-0.0002 ppm	28.5321 ppm	0.0053 ppm	0.0083 ppm	0.0741 ppm	0.0039 ppm	931.1847 ppm
Concentration RSD	78.1 %	0.1 %	51.9 %	8.6 %	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	-0.0040 ppm	0.0076 ppm	0.0265 ppm	0.0206 ppm	34.9433 ppm	1.2543 ppm	0.0316 ppm
Concentration per Run 1	-0.0040 ppm	0.0078 ppm	0.0265 ppm	0.0209 ppm	34.9952 ppm	1.2527 ppm	0.0288 ppm
Concentration per Run 2	-0.0041 ppm	0.0077 ppm	0.0263 ppm	0.0205 ppm	34.9729 ppm	1.2512 ppm	0.0314 ppm
Concentration per Run 3	-0.0039 ppm	0.0072 ppm	0.0267 ppm	0.0204 ppm	34.8618 ppm	1.2590 ppm	0.0344 ppm
Concentration RSD	2.5 %	4.0 %	0.9 %	1.2 %	0.2 %	0.3 %	8.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	623.3212 [SIC 1000]	2.9128 ppm	0.0005 ppm	0.2734 ppm	0.0144 ppm	0.0199 ppm	0.0004 ppm
Concentration per Run 1	628.1082 ppm	2.9178 ppm	0.0004 ppm	0.2708 ppm	0.0142 ppm	0.0190 ppm	-0.0005 ppm
Concentration per Run 2	624.2243 ppm	2.9116 ppm	0.0008 ppm	0.2754 ppm	0.0142 ppm	0.0211 ppm	0.0026 ppm
Concentration per Run 3	617.6311 ppm	2.9090 ppm	0.0004 ppm	0.2740 ppm	0.0148 ppm	0.0196 ppm	-0.0008 ppm
Concentration RSD	0.8 %	0.2 %	43.3 %	0.9 %	2.5 %	5.5 %	442.5 %

	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	-0.0033 ppm	1.8318 ppm	0.0031 ppm	0.4278 ppm	1.2315 ppm	-0.0032 ppm	0.0449 ppm
Concentration per Run 1	-0.0023 ppm	1.8262 ppm	0.0025 ppm	0.4278 ppm	1.2392 ppm	-0.0021 ppm	0.0451 ppm
Concentration per Run 2	-0.0025 ppm	1.8604 ppm	0.0028 ppm	0.4278 ppm	1.2388 ppm	-0.0042 ppm	0.0456 ppm
Concentration per Run 3	-0.0051 ppm	1.8090 ppm	0.0038 ppm	0.4278 ppm	1.2163 ppm	-0.0034 ppm	0.0441 ppm
Concentration RSD	48.4 %	1.4 %	21.3 %	0.0 %	1.1 %	33.4 %	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	0.0375 ppm	82.3072 %	92.6439 %	62.8623 %	77.3846 %	94.1117 %	78.5895 %
Concentration per Run 1	0.0379 ppm	82.0105 %	92.3928 %	62.1909 %	77.5566 %	93.8910 %	78.3373 %
Concentration per Run 2	0.0376 ppm	82.1843 %	92.8367 %	63.3046 %	77.5714 %	94.4890 %	78.9685 %
Concentration per Run 3	0.0370 ppm	82.7267 %	92.7021 %	63.0915 %	77.0260 %	93.9551 %	78.4627 %
Concentration RSD	1.2 %	0.5 %	0.2 %	0.9 %	0.4 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473553-01d20 WG2011483
Analysis started at: 12/20/2024 3:09:54 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	0.0001 ppm	5.5733 ppm	0.0013 ppm	0.0014 ppm	0.0148 ppm	0.0008 ppm	201.3124 ppm
Concentration per Run 1	0.0001 ppm	5.7386 ppm	0.0012 ppm	0.0013 ppm	0.0152 ppm	0.0008 ppm	207.6944 ppm
Concentration per Run 2	0.0002 ppm	5.0505 ppm	0.0023 ppm	0.0017 ppm	0.0135 ppm	0.0007 ppm	183.2099 ppm
Concentration per Run 3	0.0000 ppm	5.9307 ppm	0.0004 ppm	0.0011 ppm	0.0158 ppm	0.0008 ppm	213.0329 ppm
Concentration RSD	60.9 %	8.3 %	72.6 %	21.8 %	8.3 %	7.5 %	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	-0.0009 ppm	0.0016 ppm	0.0056 ppm	0.0045 ppm	7.3861 ppm	0.2492 ppm	0.0042 ppm
Concentration per Run 1	-0.0009 ppm	0.0010 ppm	0.0057 ppm	0.0045 ppm	7.6288 ppm	0.2679 ppm	0.0045 ppm
Concentration per Run 2	-0.0009 ppm	0.0021 ppm	0.0055 ppm	0.0046 ppm	6.7049 ppm	0.2205 ppm	0.0038 ppm
Concentration per Run 3	-0.0008 ppm	0.0016 ppm	0.0056 ppm	0.0044 ppm	7.8246 ppm	0.2592 ppm	0.0042 ppm
Concentration RSD	6.0 %	33.6 %	1.5 %	2.4 %	8.1 %	10.1 %	8.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	141.1152 ppm	0.6129 ppm	0.0002 ppm	0.0463 ppm	0.0032 ppm	0.0034 ppm	0.0002 ppm
Concentration per Run 1	142.1232 ppm	0.6333 ppm	0.0004 ppm	0.0480 ppm	0.0033 ppm	0.0022 ppm	-0.0001 ppm
Concentration per Run 2	140.8858 ppm	0.5560 ppm	0.0001 ppm	0.0396 ppm	0.0031 ppm	0.0033 ppm	0.0018 ppm
Concentration per Run 3	140.3366 ppm	0.6494 ppm	0.0001 ppm	0.0513 ppm	0.0032 ppm	0.0046 ppm	-0.0010 ppm
Concentration RSD	0.6 %	8.1 %	93.8 %	13.1 %	2.0 %	35.4 %	657.9 %

	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	-0.0021 ppm	0.3548 ppm	0.0009 ppm	0.0859 ppm	0.2532 ppm	-0.0008 ppm	0.0094 ppm
Concentration per Run 1	-0.0045 ppm	0.3620 ppm	0.0013 ppm	0.0881 ppm	0.2548 ppm	-0.0008 ppm	0.0096 ppm
Concentration per Run 2	-0.0010 ppm	0.3406 ppm	-0.0001 ppm	0.0780 ppm	0.2524 ppm	-0.0011 ppm	0.0093 ppm
Concentration per Run 3	-0.0007 ppm	0.3620 ppm	0.0014 ppm	0.0916 ppm	0.2525 ppm	-0.0007 ppm	0.0094 ppm
Concentration RSD	99.9 %	3.5 %	92.1 %	8.2 %	0.5 %	26.9 %	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	0.0089 ppm	92.4127 %	100.4886 %	78.3699 %	84.4137 %	95.6810 %	85.0881 %
Concentration per Run 1	0.0089 ppm	91.5654 %	96.8607 %	78.1546 %	84.7258 %	95.2000 %	85.3074 %
Concentration per Run 2	0.0090 ppm	92.4636 %	109.6218 %	78.2773 %	84.3807 %	99.6856 %	84.9405 %
Concentration per Run 3	0.0088 ppm	93.2092 %	94.9834 %	78.6779 %	84.1348 %	92.1574 %	85.0163 %
Concentration RSD	1.2 %	0.9 %	7.9 %	0.3 %	0.4 %	4.0 %	0.2 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: CCV
Analysis started at: 12/20/2024 3:14:19 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	0.4910 ppm	0.4767 ppm	0.4620 ppm	0.4883 ppm	0.4906 ppm	0.4974 ppm	0.4936 ppm
Concentration per Run 1	0.4926 ppm	0.4762 ppm	0.4608 ppm	0.4888 ppm	0.4877 ppm	0.4964 ppm	0.4953 ppm
Concentration per Run 2	0.4916 ppm	0.4750 ppm	0.4625 ppm	0.4892 ppm	0.4891 ppm	0.4980 ppm	0.4971 ppm
Concentration per Run 3	0.4886 ppm	0.4790 ppm	0.4626 ppm	0.4868 ppm	0.4949 ppm	0.4978 ppm	0.4885 ppm
Recovery Percentage 1	98.194 %	95.342 %	92.393 %	97.656 %	98.117 %	99.475 %	98.729 %
Concentration RSD	0.4 %	0.4 %	0.2 %	0.3 %	0.8 %	0.2 %	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	0.4783 ppm	0.5009 ppm	0.4853 ppm	0.4966 ppm	0.5039 ppm	5.1234 ppm	0.4974 ppm
Concentration per Run 1	0.4788 ppm	0.5015 ppm	0.4864 ppm	0.4999 ppm	0.5024 ppm	5.1023 ppm	0.4967 ppm
Concentration per Run 2	0.4772 ppm	0.4996 ppm	0.4848 ppm	0.4962 ppm	0.5064 ppm	5.0754 ppm	0.4899 ppm
Concentration per Run 3	0.4788 ppm	0.5015 ppm	0.4847 ppm	0.4938 ppm	0.5028 ppm	5.1925 ppm	0.5057 ppm
Recovery Percentage 1	95.656 %	100.177 %	97.066 %	99.330 %	100.774 %	102.468 %	99.483 %
Concentration RSD	0.2 %	0.2 %	0.2 %	0.6 %	0.4 %	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	0.5030 ppm	0.4780 ppm	0.4977 ppm	9.9661 ppm	0.5011 ppm	0.4839 ppm	0.4982 ppm
Concentration per Run 1	0.5066 ppm	0.4776 ppm	0.4920 ppm	9.9755 ppm	0.5014 ppm	0.4848 ppm	0.4998 ppm
Concentration per Run 2	0.4993 ppm	0.4786 ppm	0.4981 ppm	9.8791 ppm	0.5001 ppm	0.4833 ppm	0.4969 ppm
Concentration per Run 3	0.5032 ppm	0.4778 ppm	0.5031 ppm	10.0437 ppm	0.5017 ppm	0.4836 ppm	0.4977 ppm
Recovery Percentage 1	100.606 %	95.600 %	99.548 %	99.661 %	100.214 %	96.777 %	99.633 %
Concentration RSD	0.7 %	0.1 %	1.1 %	0.8 %	0.2 %	0.2 %	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	0.4640 ppm	5.5236 ppm	0.5097 ppm	0.5156 ppm	0.4904 ppm	0.4852 ppm	0.4862 ppm
Concentration per Run 1	0.4639 ppm	5.5289 ppm	0.5093 ppm	0.5123 ppm	0.4928 ppm	0.4849 ppm	0.4888 ppm
Concentration per Run 2	0.4658 ppm	5.5131 ppm	0.5105 ppm	0.5148 ppm	0.4900 ppm	0.4872 ppm	0.4858 ppm
Concentration per Run 3	0.4625 ppm	5.5287 ppm	0.5093 ppm	0.5196 ppm	0.4884 ppm	0.4836 ppm	0.4841 ppm
Recovery Percentage 1	92.810 %	105.211 %	101.944 %	103.111 %	98.086 %	97.042 %	97.244 %
Concentration RSD	0.4 %	0.2 %	0.1 %	0.7 %	0.5 %	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	0.4857 ppm	104.2957 %	104.5189 %	96.1828 %	90.9544 %	99.0768 %	93.1027 %
Concentration per Run 1	0.4856 ppm	103.8512 %	104.8348 %	95.5109 %	91.3110 %	99.4630 %	92.8012 %
Concentration per Run 2	0.4843 ppm	104.6158 %	104.2767 %	96.5334 %	91.0655 %	98.7273 %	93.6413 %
Concentration per Run 3	0.4872 ppm	104.4200 %	104.4453 %	96.5041 %	90.4866 %	99.0401 %	92.8655 %
Recovery Percentage 1	97.136 %						
Concentration RSD	0.3 %	0.4 %	0.3 %	0.6 %	0.5 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: CCB
Analysis started at: 12/20/2024 3:18:45 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	-0.0001 ppm	0.0001 ppm	0.0008 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0016 ppm
Concentration per Run 1	-0.0002 ppm	0.0025 ppm	0.0013 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0006 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0009 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0023 ppm
Concentration per Run 3	-0.0001 ppm	-0.0019 ppm	0.0003 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0020 ppm
Recovery Percentage 1	-1.532 %	0.067 %	16.023 %	-0.046 %	0.526 %	0.668 %	1.640 %
Concentration RSD	163.5 %	3,321.3 %	59.6 %	2,335.6 %	22.5 %	26.0 %	57.9 %

	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	0.0002 ppm	0.0006 ppm	0.0007 ppm	0.0095 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0008 ppm	0.0017 ppm	0.0177 ppm	0.0001 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0007 ppm	0.0056 ppm	-0.0001 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	0.0004 ppm	0.0004 ppm	-0.0002 ppm	0.0050 ppm	0.0003 ppm
Recovery Percentage 1	1.543 %	-1.776 %	2.083 %	5.571 %	1.464 %	0.379 %	1.155 %
Concentration RSD	55.5 %	28.8 %	63.0 %	34.1 %	132.3 %	75.7 %	169.5 %

	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	0.0000 ppm	0.0022 ppm	-0.0145 ppm	-0.0003 ppm	0.0001 ppm	0.0005 ppm
Concentration per Run 1	0.0006 ppm	0.0000 ppm	0.0021 ppm	-0.0131 ppm	-0.0007 ppm	0.0003 ppm	-0.0010 ppm
Concentration per Run 2	-0.0005 ppm	0.0001 ppm	0.0022 ppm	-0.0140 ppm	-0.0005 ppm	-0.0005 ppm	0.0008 ppm
Concentration per Run 3	-0.0012 ppm	0.0000 ppm	0.0023 ppm	-0.0163 ppm	0.0003 ppm	0.0004 ppm	0.0016 ppm
Recovery Percentage 1	-0.382 %	0.237 %	4.366 %	-0.723 %	-1.239 %	0.880 %	0.917 %
Concentration RSD	235.7 %	168.7 %	6.1 %	11.4 %	161.9 %	550.4 %	288.3 %

	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	-0.0011 ppm	-0.0009 ppm	0.0002 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	-0.0009 ppm	0.0003 ppm
Concentration per Run 2	-0.0028 ppm	-0.0008 ppm	-0.0003 ppm	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 3	-0.0005 ppm	-0.0024 ppm	0.0002 ppm	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0001 ppm
Recovery Percentage 1	-11.167 %	-0.170 %	0.335 %	0.335 %	1.263 %	-0.722 %	1.271 %
Concentration RSD	133.9 %	185.4 %	241.3 %	67.0 %	56.0 %	432.1 %	133.0 %

	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	0.0002 ppm	99.7092 %	102.5193 %	96.4970 %	94.1094 %	100.6971 %	95.4847 %
Concentration per Run 1	0.0002 ppm	98.8937 %	101.5253 %	95.7799 %	94.7385 %	100.5114 %	95.5872 %
Concentration per Run 2	0.0002 ppm	99.6523 %	102.8138 %	96.7083 %	93.8377 %	101.0377 %	95.7298 %
Concentration per Run 3	0.0002 ppm	100.5816 %	103.2189 %	97.0029 %	93.7520 %	100.5423 %	95.1372 %
Recovery Percentage 1	3.913 %						
Concentration RSD	17.2 %	0.8 %	0.9 %	0.7 %	0.6 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: WG2011408-1 WG2011408
Analysis started at: 12/20/2024 3:35:42 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	0.0000 ppm	0.0216 ppm	0.0004 ppm	0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0363 ppm
Concentration per Run 1	-0.0002 ppm	0.0246 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0346 ppm
Concentration per Run 2	0.0000 ppm	0.0217 ppm	0.0006 ppm	0.0003 ppm	0.0002 ppm	0.0000 ppm	0.0380 ppm
Concentration per Run 3	0.0001 ppm	0.0185 ppm	0.0005 ppm	0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0363 ppm
Recovery Percentage 1	-0.899 %	21.613 %	7.031 %	0.464 %	2.452 %	0.211 %	36.291 %
Concentration RSD	386.7 %	14.0 %	94.4 %	103.7 %	11.0 %	141.1 %	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	0.0000 ppm	-0.0004 ppm	0.0003 ppm	0.0008 ppm	0.0286 ppm	0.0105 ppm	-0.0003 ppm
Concentration per Run 1	0.0001 ppm	-0.0005 ppm	0.0002 ppm	0.0010 ppm	0.0294 ppm	0.0250 ppm	-0.0006 ppm
Concentration per Run 2	-0.0001 ppm	-0.0004 ppm	0.0004 ppm	0.0008 ppm	0.0287 ppm	0.0078 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0003 ppm	0.0007 ppm	0.0276 ppm	-0.0013 ppm	-0.0003 ppm
Recovery Percentage 1	-0.362 %	-4.188 %	2.952 %	8.404 %	57.158 %	0.420 %	-2.983 %
Concentration RSD	608.5 %	20.6 %	24.0 %	15.0 %	3.1 %	127.2 %	124.3 %

	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	0.0067 ppm	0.0011 ppm	0.0007 ppm	-0.0032 ppm	-0.0004 ppm	0.0005 ppm	0.0008 ppm
Concentration per Run 1	0.0077 ppm	0.0010 ppm	0.0007 ppm	-0.0034 ppm	-0.0006 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 2	0.0061 ppm	0.0011 ppm	0.0009 ppm	-0.0034 ppm	-0.0003 ppm	0.0004 ppm	0.0020 ppm
Concentration per Run 3	0.0063 ppm	0.0011 ppm	0.0006 ppm	-0.0030 ppm	-0.0002 ppm	0.0005 ppm	0.0004 ppm
Recovery Percentage 1	6.705 %	10.928 %	1.499 %	-0.162 %	-1.451 %	4.677 %	1.612 %
Concentration RSD	12.4 %	5.3 %	19.8 %	7.6 %	49.1 %	18.1 %	125.9 %

	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	0.0186 ppm	0.0021 ppm	0.0001 ppm	0.0005 ppm	-0.0016 ppm	0.0000 ppm
Concentration per Run 1	0.0008 ppm	0.0189 ppm	0.0019 ppm	0.0001 ppm	0.0006 ppm	-0.0015 ppm	0.0001 ppm
Concentration per Run 2	-0.0003 ppm	0.0194 ppm	0.0021 ppm	0.0000 ppm	0.0005 ppm	-0.0016 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0175 ppm	0.0023 ppm	0.0001 ppm	0.0005 ppm	-0.0017 ppm	0.0000 ppm
Recovery Percentage 1	1.731 %	3.721 %	4.165 %	0.576 %	5.227 %	-7.934 %	0.298 %
Concentration RSD	314.4 %	5.3 %	7.7 %	89.7 %	15.2 %	5.4 %	236.8 %

	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	0.0351 ppm	120.2842 %	106.0055 %	109.6335 %	97.9151 %	100.5509 %	97.3100 %
Concentration per Run 1	0.0351 ppm	120.9847 %	105.1809 %	110.2206 %	97.5836 %	100.2400 %	97.5557 %
Concentration per Run 2	0.0348 ppm	120.5475 %	105.9822 %	109.5509 %	98.1860 %	100.3228 %	96.9338 %
Concentration per Run 3	0.0355 ppm	119.3203 %	106.8535 %	109.1291 %	97.9757 %	101.0899 %	97.4404 %
Recovery Percentage 1	702.825 %						
Concentration RSD	1.0 %	0.7 %	0.8 %	0.5 %	0.3 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: WG2011408-2d2 WG2011408
Analysis started at: 12/20/2024 3:40:23 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	0.3260 ppm	20.6875 ppm	1.1850 ppm	0.8907 ppm	1.1126 ppm	0.6343 ppm	18.6472 ppm
Concentration per Run 1	0.3299 ppm	20.5966 ppm	1.1852 ppm	0.8958 ppm	1.1175 ppm	0.6351 ppm	18.5652 ppm
Concentration per Run 2	0.3256 ppm	20.6923 ppm	1.1917 ppm	0.8909 ppm	1.1101 ppm	0.6327 ppm	18.6126 ppm
Concentration per Run 3	0.3226 ppm	20.7738 ppm	1.1783 ppm	0.8855 ppm	1.1102 ppm	0.6349 ppm	18.7638 ppm
Concentration RSD	1.1 %	0.4 %	0.6 %	0.6 %	0.4 %	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	0.8004 ppm	0.3159 ppm	0.6905 ppm	0.8143 ppm	23.8720 ppm	5.0356 ppm	0.5277 ppm
Concentration per Run 1	0.8043 ppm	0.3185 ppm	0.6975 ppm	0.8209 ppm	23.9196 ppm	5.0409 ppm	0.5304 ppm
Concentration per Run 2	0.8064 ppm	0.3166 ppm	0.6926 ppm	0.8124 ppm	23.7556 ppm	5.0282 ppm	0.5249 ppm
Concentration per Run 3	0.7904 ppm	0.3126 ppm	0.6814 ppm	0.8095 ppm	23.9408 ppm	5.0376 ppm	0.5278 ppm
Concentration RSD	1.1 %	1.0 %	1.2 %	0.7 %	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	6.0726 ppm	1.9763 ppm	0.5397 ppm	7.0238 ppm	1.2178 ppm	0.3650 ppm	0.8417 ppm
Concentration per Run 1	6.1251 ppm	1.9768 ppm	0.5382 ppm	6.9687 ppm	1.2281 ppm	0.3662 ppm	0.8469 ppm
Concentration per Run 2	6.0799 ppm	1.9704 ppm	0.5433 ppm	7.0515 ppm	1.2236 ppm	0.3672 ppm	0.8450 ppm
Concentration per Run 3	6.0127 ppm	1.9818 ppm	0.5376 ppm	7.0511 ppm	1.2016 ppm	0.3618 ppm	0.8333 ppm
Concentration RSD	0.9 %	0.3 %	0.6 %	0.7 %	1.2 %	0.8 %	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	0.6245 ppm	9.1874 ppm	0.3056 ppm	0.5274 ppm	1.2166 ppm	0.8271 ppm	0.3941 ppm
Concentration per Run 1	0.6242 ppm	9.1792 ppm	0.3100 ppm	0.5294 ppm	1.2343 ppm	0.8254 ppm	0.3972 ppm
Concentration per Run 2	0.6276 ppm	9.3102 ppm	0.3051 ppm	0.5251 ppm	1.2168 ppm	0.8324 ppm	0.3944 ppm
Concentration per Run 3	0.6216 ppm	9.0728 ppm	0.3016 ppm	0.5278 ppm	1.1988 ppm	0.8235 ppm	0.3908 ppm
Concentration RSD	0.5 %	1.3 %	1.4 %	0.4 %	1.5 %	0.6 %	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	0.6287 ppm	103.0091 %	105.1488 %	90.7669 %	96.5644 %	106.2792 %	98.6162 %
Concentration per Run 1	0.6336 ppm	101.9542 %	105.4554 %	90.7260 %	96.0133 %	106.4402 %	98.8523 %
Concentration per Run 2	0.6351 ppm	102.8685 %	105.4708 %	90.6474 %	96.2931 %	106.6441 %	98.4862 %
Concentration per Run 3	0.6174 ppm	104.2045 %	104.5203 %	90.9271 %	97.3869 %	105.7535 %	98.5100 %
Concentration RSD	1.6 %	1.1 %	0.5 %	0.2 %	0.8 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: WG2011408-3d2 WG2011408
Analysis started at: 12/20/2024 3:44:48 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	0.3022 ppm	19.1009 ppm	1.1080 ppm	0.8382 ppm	1.0150 ppm	0.5962 ppm	17.6956 ppm
Concentration per Run 1	0.3055 ppm	19.1079 ppm	1.1136 ppm	0.8512 ppm	1.0125 ppm	0.5952 ppm	17.6634 ppm
Concentration per Run 2	0.3022 ppm	19.0236 ppm	1.1054 ppm	0.8358 ppm	1.0141 ppm	0.5948 ppm	17.6423 ppm
Concentration per Run 3	0.2987 ppm	19.1712 ppm	1.1051 ppm	0.8278 ppm	1.0185 ppm	0.5987 ppm	17.7811 ppm
Concentration RSD	1.1 %	0.4 %	0.4 %	1.4 %	0.3 %	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	0.7541 ppm	0.2980 ppm	0.6515 ppm	0.7790 ppm	21.8487 ppm	4.5966 ppm	0.4907 ppm
Concentration per Run 1	0.7588 ppm	0.3002 ppm	0.6569 ppm	0.7882 ppm	21.8747 ppm	4.6186 ppm	0.4894 ppm
Concentration per Run 2	0.7532 ppm	0.2967 ppm	0.6510 ppm	0.7782 ppm	21.7096 ppm	4.5544 ppm	0.4891 ppm
Concentration per Run 3	0.7504 ppm	0.2969 ppm	0.6466 ppm	0.7705 ppm	21.9619 ppm	4.6168 ppm	0.4937 ppm
Concentration RSD	0.6 %	0.7 %	0.8 %	1.1 %	0.6 %	0.8 %	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	5.6529 ppm	1.8872 ppm	0.5156 ppm	6.6344 ppm	1.1469 ppm	0.3456 ppm	0.8024 ppm
Concentration per Run 1	5.7000 ppm	1.8843 ppm	0.5164 ppm	6.6289 ppm	1.1556 ppm	0.3474 ppm	0.8114 ppm
Concentration per Run 2	5.6730 ppm	1.8834 ppm	0.5138 ppm	6.6206 ppm	1.1461 ppm	0.3453 ppm	0.8006 ppm
Concentration per Run 3	5.5858 ppm	1.8938 ppm	0.5166 ppm	6.6538 ppm	1.1391 ppm	0.3442 ppm	0.7952 ppm
Concentration RSD	1.1 %	0.3 %	0.3 %	0.3 %	0.7 %	0.5 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5822 ppm	8.8952 ppm	0.2850 ppm	0.4781 ppm	1.2060 ppm	0.7860 ppm	0.3744 ppm
Concentration per Run 1	0.5846 ppm	9.0859 ppm	0.2872 ppm	0.4762 ppm	1.2088 ppm	0.7872 ppm	0.3772 ppm
Concentration per Run 2	0.5816 ppm	8.9481 ppm	0.2830 ppm	0.4781 ppm	1.2068 ppm	0.7848 ppm	0.3752 ppm
Concentration per Run 3	0.5805 ppm	8.6517 ppm	0.2847 ppm	0.4799 ppm	1.2024 ppm	0.7858 ppm	0.3708 ppm
Concentration RSD	0.4 %	2.5 %	0.7 %	0.4 %	0.3 %	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	0.5899 ppm	103.4095 %	104.9881 %	90.4099 %	97.1148 %	106.4015 %	98.3749 %
Concentration per Run 1	0.5954 ppm	102.2159 %	104.8738 %	90.2755 %	96.6172 %	106.6737 %	98.6797 %
Concentration per Run 2	0.5875 ppm	103.5458 %	105.4076 %	90.4218 %	97.1859 %	106.2640 %	98.2394 %
Concentration per Run 3	0.5869 ppm	104.4666 %	104.6830 %	90.5322 %	97.5413 %	106.2666 %	98.2055 %
Concentration RSD	0.8 %	1.1 %	0.4 %	0.1 %	0.5 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473615-01d2 WG2011408
Analysis started at: 12/20/2024 3:49:13 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	0.0016 ppm	126.2330 ppm	0.0316 ppm	0.0326 ppm	0.4303 ppm	0.0037 ppm	3.6922 ppm
Concentration per Run 1	0.0018 ppm	125.0828 ppm	0.0310 ppm	0.0324 ppm	0.4304 ppm	0.0037 ppm	3.6588 ppm
Concentration per Run 2	0.0018 ppm	126.2534 ppm	0.0335 ppm	0.0334 ppm	0.4288 ppm	0.0037 ppm	3.6908 ppm
Concentration per Run 3	0.0012 ppm	127.3628 ppm	0.0304 ppm	0.0320 ppm	0.4317 ppm	0.0037 ppm	3.7270 ppm
Concentration RSD	23.4 %	0.9 %	5.2 %	2.2 %	0.3 %	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	0.0005 ppm	0.0576 ppm	0.1337 ppm	0.1112 ppm	146.4443 ppm	4.2529 ppm	0.0923 ppm
Concentration per Run 1	0.0005 ppm	0.0580 ppm	0.1353 ppm	0.1117 ppm	145.2470 ppm	4.2136 ppm	0.0926 ppm
Concentration per Run 2	0.0006 ppm	0.0578 ppm	0.1337 ppm	0.1123 ppm	145.9886 ppm	4.2618 ppm	0.0916 ppm
Concentration per Run 3	0.0003 ppm	0.0570 ppm	0.1321 ppm	0.1097 ppm	148.0974 ppm	4.2833 ppm	0.0927 ppm
Concentration RSD	37.4 %	0.9 %	1.2 %	1.3 %	1.0 %	0.8 %	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	19.7806 ppm	2.2941 ppm	0.0063 ppm	11.7191 ppm	0.0890 ppm	0.2269 ppm	0.0015 ppm
Concentration per Run 1	20.0183 ppm	2.2758 ppm	0.0062 ppm	11.5603 ppm	0.0906 ppm	0.2301 ppm	0.0018 ppm
Concentration per Run 2	19.7907 ppm	2.2884 ppm	0.0062 ppm	11.7590 ppm	0.0890 ppm	0.2260 ppm	0.0014 ppm
Concentration per Run 3	19.5328 ppm	2.3180 ppm	0.0065 ppm	11.8380 ppm	0.0876 ppm	0.2246 ppm	0.0013 ppm
Concentration RSD	1.2 %	0.9 %	2.7 %	1.2 %	1.7 %	1.3 %	16.3 %

	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	0.0016 ppm	5.0754 ppm	0.0066 ppm	0.0371 ppm	3.1876 ppm	0.0027 ppm	0.3533 ppm
Concentration per Run 1	0.0014 ppm	5.0893 ppm	0.0064 ppm	0.0369 ppm	3.2196 ppm	0.0025 ppm	0.3548 ppm
Concentration per Run 2	0.0033 ppm	5.2207 ppm	0.0071 ppm	0.0371 ppm	3.1899 ppm	0.0027 ppm	0.3533 ppm
Concentration per Run 3	0.0002 ppm	4.9164 ppm	0.0064 ppm	0.0373 ppm	3.1532 ppm	0.0028 ppm	0.3517 ppm
Concentration RSD	96.6 %	3.0 %	6.0 %	0.6 %	1.0 %	4.9 %	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	0.6302 ppm	110.3622 %	114.6664 %	87.9391 %	101.8861 %	115.3569 %	104.1939 %
Concentration per Run 1	0.6392 ppm	109.3854 %	115.8210 %	87.9163 %	101.4013 %	116.2932 %	104.6661 %
Concentration per Run 2	0.6301 ppm	110.1927 %	114.4728 %	87.9302 %	101.2794 %	115.1432 %	103.9539 %
Concentration per Run 3	0.6214 ppm	111.5085 %	113.7054 %	87.9708 %	102.9774 %	114.6344 %	103.9616 %
Concentration RSD	1.4 %	1.0 %	0.9 %	0.0 %	0.9 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473615-02d2 WG2011408
Analysis started at: 12/20/2024 3:53:38 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	0.0010 ppm	68.2306 ppm	0.0155 ppm	0.0270 ppm	0.1622 ppm	0.0023 ppm	5.5984 ppm
Concentration per Run 1	0.0011 ppm	68.2956 ppm	0.0161 ppm	0.0268 ppm	0.1632 ppm	0.0024 ppm	5.6254 ppm
Concentration per Run 2	0.0009 ppm	68.5117 ppm	0.0168 ppm	0.0278 ppm	0.1625 ppm	0.0023 ppm	5.5747 ppm
Concentration per Run 3	0.0010 ppm	67.8846 ppm	0.0136 ppm	0.0264 ppm	0.1608 ppm	0.0023 ppm	5.5950 ppm
Concentration RSD	8.5 %	0.5 %	10.8 %	2.7 %	0.8 %	1.3 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0006 ppm	0.0474 ppm	0.0799 ppm	0.1144 ppm	105.8189 ppm	4.8127 ppm	0.0711 ppm
Concentration per Run 1	0.0008 ppm	0.0482 ppm	0.0805 ppm	0.1145 ppm	106.2998 ppm	4.8321 ppm	0.0716 ppm
Concentration per Run 2	0.0008 ppm	0.0471 ppm	0.0793 ppm	0.1147 ppm	105.5883 ppm	4.8229 ppm	0.0715 ppm
Concentration per Run 3	0.0004 ppm	0.0468 ppm	0.0799 ppm	0.1141 ppm	105.5686 ppm	4.7831 ppm	0.0703 ppm
Concentration RSD	33.4 %	1.6 %	0.7 %	0.2 %	0.4 %	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	17.8107 ppm	2.4162 ppm	0.0027 ppm	4.6422 ppm	0.0709 ppm	0.2367 ppm	0.0022 ppm
Concentration per Run 1	18.0430 ppm	2.4229 ppm	0.0024 ppm	4.6200 ppm	0.0723 ppm	0.2398 ppm	0.0025 ppm
Concentration per Run 2	17.7065 ppm	2.4110 ppm	0.0031 ppm	4.6833 ppm	0.0700 ppm	0.2348 ppm	0.0017 ppm
Concentration per Run 3	17.6824 ppm	2.4149 ppm	0.0026 ppm	4.6234 ppm	0.0703 ppm	0.2357 ppm	0.0024 ppm
Concentration RSD	1.1 %	0.3 %	13.4 %	0.8 %	1.7 %	1.1 %	19.7 %

	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	-0.0008 ppm	5.8608 ppm	0.0102 ppm	0.0268 ppm	3.2957 ppm	0.0004 ppm	0.2664 ppm
Concentration per Run 1	0.0008 ppm	5.8430 ppm	0.0108 ppm	0.0270 ppm	3.3176 ppm	0.0014 ppm	0.2691 ppm
Concentration per Run 2	-0.0021 ppm	6.0141 ppm	0.0092 ppm	0.0269 ppm	3.2976 ppm	0.0000 ppm	0.2657 ppm
Concentration per Run 3	-0.0011 ppm	5.7253 ppm	0.0105 ppm	0.0266 ppm	3.2720 ppm	-0.0002 ppm	0.2644 ppm
Concentration RSD	177.4 %	2.5 %	8.3 %	0.8 %	0.7 %	228.5 %	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	0.4792 ppm	107.5785 %	110.3949 %	88.1091 %	101.9808 %	113.9026 %	104.2676 %
Concentration per Run 1	0.4879 ppm	106.6856 %	109.6487 %	87.7825 %	101.5173 %	113.2003 %	103.8999 %
Concentration per Run 2	0.4712 ppm	107.7316 %	110.9049 %	88.2501 %	102.1200 %	114.8835 %	104.4596 %
Concentration per Run 3	0.4787 ppm	108.3184 %	110.6311 %	88.2949 %	102.3050 %	113.6240 %	104.4432 %
Concentration RSD	1.7 %	0.8 %	0.6 %	0.3 %	0.4 %	0.8 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473615-03d2 WG2011408
Analysis started at: 12/20/2024 3:58:03 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	0.0009 ppm	40.6551 ppm	0.0148 ppm	0.0195 ppm	0.2109 ppm	0.0023 ppm	5.0433 ppm
Concentration per Run 1	0.0009 ppm	40.4192 ppm	0.0159 ppm	0.0191 ppm	0.2107 ppm	0.0023 ppm	5.0842 ppm
Concentration per Run 2	0.0009 ppm	40.6881 ppm	0.0143 ppm	0.0196 ppm	0.2094 ppm	0.0023 ppm	5.0584 ppm
Concentration per Run 3	0.0009 ppm	40.8580 ppm	0.0141 ppm	0.0198 ppm	0.2128 ppm	0.0024 ppm	4.9874 ppm
Concentration RSD	3.6 %	0.5 %	6.7 %	1.9 %	0.8 %	0.6 %	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	0.0011 ppm	0.0289 ppm	0.0619 ppm	0.1086 ppm	92.8536 ppm	4.3427 ppm	0.0519 ppm
Concentration per Run 1	0.0012 ppm	0.0297 ppm	0.0624 ppm	0.1091 ppm	93.1756 ppm	4.2864 ppm	0.0509 ppm
Concentration per Run 2	0.0010 ppm	0.0291 ppm	0.0618 ppm	0.1085 ppm	92.8604 ppm	4.3306 ppm	0.0514 ppm
Concentration per Run 3	0.0011 ppm	0.0280 ppm	0.0616 ppm	0.1081 ppm	92.5246 ppm	4.4110 ppm	0.0533 ppm
Concentration RSD	8.5 %	3.1 %	0.6 %	0.4 %	0.4 %	1.5 %	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	13.7359 ppm	2.3172 ppm	0.0018 ppm	3.1072 ppm	0.0479 ppm	0.4622 ppm	0.0031 ppm
Concentration per Run 1	13.9195 ppm	2.3312 ppm	0.0014 ppm	3.0311 ppm	0.0482 ppm	0.4633 ppm	0.0044 ppm
Concentration per Run 2	13.7190 ppm	2.3200 ppm	0.0021 ppm	3.1126 ppm	0.0480 ppm	0.4620 ppm	0.0023 ppm
Concentration per Run 3	13.5692 ppm	2.3005 ppm	0.0018 ppm	3.1778 ppm	0.0475 ppm	0.4614 ppm	0.0027 ppm
Concentration RSD	1.3 %	0.7 %	21.3 %	2.4 %	0.8 %	0.2 %	35.6 %

	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	8.3185 ppm	0.0124 ppm	0.0245 ppm	3.1563 ppm	0.0003 ppm	0.2853 ppm
Concentration per Run 1	0.0012 ppm	8.3888 ppm	0.0116 ppm	0.0244 ppm	3.1865 ppm	0.0004 ppm	0.2871 ppm
Concentration per Run 2	0.0005 ppm	8.4678 ppm	0.0134 ppm	0.0244 ppm	3.1519 ppm	0.0003 ppm	0.2861 ppm
Concentration per Run 3	-0.0019 ppm	8.0990 ppm	0.0121 ppm	0.0248 ppm	3.1305 ppm	0.0001 ppm	0.2826 ppm
Concentration RSD	3,346.3 %	2.3 %	7.4 %	1.0 %	0.9 %	40.8 %	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	0.2636 ppm	107.0782 %	109.3652 %	89.2059 %	106.4020 %	118.3949 %	109.0323 %
Concentration per Run 1	0.2671 ppm	105.9796 %	108.2049 %	88.5858 %	105.9093 %	117.5344 %	108.6823 %
Concentration per Run 2	0.2638 ppm	107.0182 %	109.2902 %	89.4236 %	106.4558 %	118.1845 %	109.1400 %
Concentration per Run 3	0.2600 ppm	108.2368 %	110.6004 %	89.6084 %	106.8408 %	119.4659 %	109.2746 %
Concentration RSD	1.3 %	1.1 %	1.1 %	0.6 %	0.4 %	0.8 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473625-01d2 WG2011408
Analysis started at: 12/20/2024 4:02:28 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	0.0038 ppm	106.3322 ppm	0.0396 ppm	0.0416 ppm	1.1194 ppm	0.0045 ppm	22.5251 ppm
Concentration per Run 1	0.0037 ppm	106.6427 ppm	0.0392 ppm	0.0424 ppm	1.1217 ppm	0.0046 ppm	22.7256 ppm
Concentration per Run 2	0.0042 ppm	105.8034 ppm	0.0403 ppm	0.0413 ppm	1.1111 ppm	0.0046 ppm	22.4483 ppm
Concentration per Run 3	0.0035 ppm	106.5506 ppm	0.0393 ppm	0.0410 ppm	1.1255 ppm	0.0045 ppm	22.4014 ppm
Concentration RSD	9.8 %	0.4 %	1.5 %	1.8 %	0.7 %	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	0.0012 ppm	0.0454 ppm	0.1115 ppm	0.2610 ppm	128.0088 ppm	5.7950 ppm	0.0817 ppm
Concentration per Run 1	0.0011 ppm	0.0450 ppm	0.1114 ppm	0.2606 ppm	128.6033 ppm	5.8015 ppm	0.0820 ppm
Concentration per Run 2	0.0013 ppm	0.0458 ppm	0.1118 ppm	0.2638 ppm	127.5211 ppm	5.7524 ppm	0.0809 ppm
Concentration per Run 3	0.0012 ppm	0.0453 ppm	0.1112 ppm	0.2586 ppm	127.9019 ppm	5.8310 ppm	0.0820 ppm
Concentration RSD	8.0 %	0.9 %	0.3 %	1.0 %	0.4 %	0.7 %	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	18.4217 ppm	7.0041 ppm	0.0042 ppm	3.2575 ppm	0.0823 ppm	1.4615 ppm	0.0041 ppm
Concentration per Run 1	18.5022 ppm	7.0507 ppm	0.0043 ppm	3.2546 ppm	0.0827 ppm	1.4727 ppm	0.0042 ppm
Concentration per Run 2	18.4510 ppm	6.9790 ppm	0.0043 ppm	3.2388 ppm	0.0826 ppm	1.4591 ppm	0.0017 ppm
Concentration per Run 3	18.3121 ppm	6.9827 ppm	0.0041 ppm	3.2792 ppm	0.0817 ppm	1.4526 ppm	0.0065 ppm
Concentration RSD	0.5 %	0.6 %	2.8 %	0.6 %	0.7 %	0.7 %	59.2 %

	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	0.0008 ppm	10.0928 ppm	0.1150 ppm	0.2019 ppm	2.7486 ppm	-0.0041 ppm	0.2894 ppm
Concentration per Run 1	0.0013 ppm	10.2395 ppm	0.1142 ppm	0.2027 ppm	2.7466 ppm	-0.0042 ppm	0.2912 ppm
Concentration per Run 2	0.0005 ppm	10.3469 ppm	0.1168 ppm	0.2003 ppm	2.7860 ppm	-0.0045 ppm	0.2892 ppm
Concentration per Run 3	0.0005 ppm	9.6921 ppm	0.1142 ppm	0.2028 ppm	2.7132 ppm	-0.0035 ppm	0.2878 ppm
Concentration RSD	65.1 %	3.5 %	1.3 %	0.7 %	1.3 %	12.4 %	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	0.5387 ppm	105.6964 %	108.5900 %	84.8197 %	114.2052 %	129.5497 %	117.5286 %
Concentration per Run 1	0.5413 ppm	105.5272 %	107.5521 %	84.6577 %	114.6720 %	128.4934 %	117.6023 %
Concentration per Run 2	0.5399 ppm	105.0559 %	108.9222 %	84.5698 %	113.1932 %	129.6908 %	117.5000 %
Concentration per Run 3	0.5349 ppm	106.5061 %	109.2955 %	85.2315 %	114.7504 %	130.4650 %	117.4835 %
Concentration RSD	0.6 %	0.7 %	0.8 %	0.4 %	0.8 %	0.8 %	0.1 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473625-02d2 WG2011408
Analysis started at: 12/20/2024 4:06:54 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	0.0011 ppm	72.4507 ppm	0.0178 ppm	0.0254 ppm	0.2627 ppm	0.0030 ppm	6.3293 ppm
Concentration per Run 1	0.0011 ppm	72.6905 ppm	0.0189 ppm	0.0254 ppm	0.2619 ppm	0.0030 ppm	6.4022 ppm
Concentration per Run 2	0.0011 ppm	72.4510 ppm	0.0183 ppm	0.0258 ppm	0.2624 ppm	0.0029 ppm	6.2902 ppm
Concentration per Run 3	0.0012 ppm	72.2106 ppm	0.0161 ppm	0.0251 ppm	0.2638 ppm	0.0030 ppm	6.2954 ppm
Concentration RSD	6.0 %	0.3 %	8.2 %	1.6 %	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	0.0005 ppm	0.0537 ppm	0.0889 ppm	0.0974 ppm	123.3395 ppm	5.0280 ppm	0.0868 ppm
Concentration per Run 1	0.0004 ppm	0.0537 ppm	0.0888 ppm	0.0975 ppm	123.8558 ppm	4.9797 ppm	0.0859 ppm
Concentration per Run 2	0.0005 ppm	0.0542 ppm	0.0898 ppm	0.0976 ppm	122.7867 ppm	5.0725 ppm	0.0876 ppm
Concentration per Run 3	0.0006 ppm	0.0531 ppm	0.0881 ppm	0.0971 ppm	123.3761 ppm	5.0318 ppm	0.0868 ppm
Concentration RSD	18.2 %	1.0 %	1.0 %	0.2 %	0.4 %	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	20.3301 ppm	2.7580 ppm	0.0017 ppm	0.9192 ppm	0.0789 ppm	0.0590 ppm	0.0000 ppm
Concentration per Run 1	20.3939 ppm	2.7692 ppm	0.0019 ppm	0.9169 ppm	0.0781 ppm	0.0584 ppm	0.0019 ppm
Concentration per Run 2	20.4882 ppm	2.7508 ppm	0.0015 ppm	0.9279 ppm	0.0803 ppm	0.0586 ppm	0.0011 ppm
Concentration per Run 3	20.1081 ppm	2.7541 ppm	0.0018 ppm	0.9130 ppm	0.0784 ppm	0.0598 ppm	-0.0029 ppm
Concentration RSD	1.0 %	0.4 %	10.2 %	0.8 %	1.5 %	1.3 %	8,733.0 %

	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	-0.0011 ppm	3.8941 ppm	0.0031 ppm	0.0582 ppm	4.2437 ppm	0.0007 ppm	0.2881 ppm
Concentration per Run 1	0.0006 ppm	3.8537 ppm	0.0026 ppm	0.0583 ppm	4.2422 ppm	0.0017 ppm	0.2891 ppm
Concentration per Run 2	-0.0032 ppm	3.9170 ppm	0.0034 ppm	0.0581 ppm	4.2643 ppm	0.0013 ppm	0.2901 ppm
Concentration per Run 3	-0.0006 ppm	3.9116 ppm	0.0032 ppm	0.0582 ppm	4.2245 ppm	-0.0009 ppm	0.2852 ppm
Concentration RSD	182.4 %	0.9 %	13.8 %	0.2 %	0.5 %	191.3 %	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	0.1510 ppm	111.2474 %	113.8716 %	89.0914 %	101.5585 %	113.8727 %	103.8843 %
Concentration per Run 1	0.1507 ppm	111.3573 %	113.0157 %	88.9994 %	102.5001 %	113.2693 %	104.3216 %
Concentration per Run 2	0.1523 ppm	110.4121 %	114.3238 %	89.7590 %	100.8913 %	113.9780 %	104.1067 %
Concentration per Run 3	0.1500 ppm	111.9729 %	114.2754 %	88.5159 %	101.2841 %	114.3708 %	103.2246 %
Concentration RSD	0.8 %	0.7 %	0.7 %	0.7 %	0.8 %	0.5 %	0.6 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473625-03d2 WG2011408
Analysis started at: 12/20/2024 4:11:20 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	0.0007 ppm	45.7529 ppm	0.0121 ppm	0.0173 ppm	0.1508 ppm	0.0025 ppm	7.3508 ppm
Concentration per Run 1	0.0007 ppm	45.6064 ppm	0.0127 ppm	0.0177 ppm	0.1500 ppm	0.0025 ppm	7.3573 ppm
Concentration per Run 2	0.0007 ppm	45.9352 ppm	0.0123 ppm	0.0162 ppm	0.1510 ppm	0.0025 ppm	7.3741 ppm
Concentration per Run 3	0.0005 ppm	45.7171 ppm	0.0113 ppm	0.0181 ppm	0.1512 ppm	0.0024 ppm	7.3211 ppm
Concentration RSD	20.7 %	0.4 %	5.9 %	5.8 %	0.4 %	1.4 %	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	0.0005 ppm	0.0294 ppm	0.0637 ppm	0.1013 ppm	83.1850 ppm	4.7417 ppm	0.0657 ppm
Concentration per Run 1	0.0005 ppm	0.0295 ppm	0.0637 ppm	0.1023 ppm	83.1350 ppm	4.7387 ppm	0.0660 ppm
Concentration per Run 2	0.0006 ppm	0.0293 ppm	0.0639 ppm	0.1003 ppm	83.3342 ppm	4.7433 ppm	0.0660 ppm
Concentration per Run 3	0.0005 ppm	0.0295 ppm	0.0634 ppm	0.1014 ppm	83.0857 ppm	4.7431 ppm	0.0650 ppm
Concentration RSD	10.8 %	0.5 %	0.4 %	1.0 %	0.2 %	0.1 %	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	17.4281 ppm	2.6976 ppm	0.0016 ppm	0.8369 ppm	0.0517 ppm	0.0380 ppm	0.0001 ppm
Concentration per Run 1	17.5138 ppm	2.6931 ppm	0.0012 ppm	0.8219 ppm	0.0521 ppm	0.0378 ppm	-0.0017 ppm
Concentration per Run 2	17.3364 ppm	2.7037 ppm	0.0016 ppm	0.8456 ppm	0.0513 ppm	0.0373 ppm	0.0015 ppm
Concentration per Run 3	17.4343 ppm	2.6961 ppm	0.0019 ppm	0.8433 ppm	0.0518 ppm	0.0390 ppm	0.0005 ppm
Concentration RSD	0.5 %	0.2 %	21.3 %	1.6 %	0.7 %	2.3 %	1,910.1 %

	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	-0.0027 ppm	3.1211 ppm	0.0020 ppm	0.0342 ppm	2.9004 ppm	-0.0006 ppm	0.1914 ppm
Concentration per Run 1	-0.0027 ppm	3.1431 ppm	0.0021 ppm	0.0341 ppm	2.9188 ppm	-0.0004 ppm	0.1934 ppm
Concentration per Run 2	-0.0024 ppm	3.1046 ppm	0.0008 ppm	0.0343 ppm	2.8853 ppm	-0.0011 ppm	0.1905 ppm
Concentration per Run 3	-0.0029 ppm	3.1157 ppm	0.0030 ppm	0.0343 ppm	2.8971 ppm	-0.0002 ppm	0.1904 ppm
Concentration RSD	10.5 %	0.6 %	55.9 %	0.3 %	0.6 %	75.8 %	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	0.1251 ppm	108.0711 %	110.4489 %	90.3457 %	109.4395 %	121.5351 %	111.9295 %
Concentration per Run 1	0.1256 ppm	107.7338 %	110.6443 %	90.0255 %	109.9595 %	121.9426 %	111.9140 %
Concentration per Run 2	0.1247 ppm	108.5570 %	110.1826 %	90.0790 %	109.7083 %	120.6948 %	111.6628 %
Concentration per Run 3	0.1249 ppm	107.9224 %	110.5197 %	90.9327 %	108.6508 %	121.9678 %	112.2117 %
Concentration RSD	0.3 %	0.4 %	0.2 %	0.6 %	0.6 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: CCV
Analysis started at: 12/20/2024 4:15:47 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	0.4916 ppm	0.4767 ppm	0.4594 ppm	0.4885 ppm	0.4872 ppm	0.4996 ppm	0.4872 ppm
Concentration per Run 1	0.4917 ppm	0.4783 ppm	0.4626 ppm	0.4894 ppm	0.4909 ppm	0.4998 ppm	0.4841 ppm
Concentration per Run 2	0.4931 ppm	0.4799 ppm	0.4585 ppm	0.4893 ppm	0.4859 ppm	0.4971 ppm	0.4858 ppm
Concentration per Run 3	0.4900 ppm	0.4721 ppm	0.4572 ppm	0.4869 ppm	0.4848 ppm	0.5020 ppm	0.4919 ppm
Recovery Percentage 1	98.322 %	95.347 %	91.886 %	97.707 %	97.438 %	99.927 %	97.448 %
Concentration RSD	0.3 %	0.9 %	0.6 %	0.3 %	0.7 %	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	0.4794 ppm	0.5030 ppm	0.4875 ppm	0.4948 ppm	0.5116 ppm	5.1470 ppm	0.4978 ppm
Concentration per Run 1	0.4836 ppm	0.5072 ppm	0.4901 ppm	0.4946 ppm	0.5141 ppm	5.1675 ppm	0.5027 ppm
Concentration per Run 2	0.4749 ppm	0.4989 ppm	0.4858 ppm	0.4981 ppm	0.5082 ppm	5.1323 ppm	0.4932 ppm
Concentration per Run 3	0.4798 ppm	0.5029 ppm	0.4866 ppm	0.4916 ppm	0.5125 ppm	5.1411 ppm	0.4976 ppm
Recovery Percentage 1	95.882 %	100.600 %	97.496 %	98.951 %	102.316 %	102.939 %	99.563 %
Concentration RSD	0.9 %	0.8 %	0.5 %	0.7 %	0.6 %	0.4 %	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	0.4930 ppm	0.4792 ppm	0.4984 ppm	10.0347 ppm	0.5030 ppm	0.4845 ppm	0.4977 ppm
Concentration per Run 1	0.4950 ppm	0.4787 ppm	0.4975 ppm	10.1112 ppm	0.5067 ppm	0.4864 ppm	0.4978 ppm
Concentration per Run 2	0.4928 ppm	0.4781 ppm	0.4944 ppm	10.0883 ppm	0.4995 ppm	0.4825 ppm	0.4944 ppm
Concentration per Run 3	0.4912 ppm	0.4809 ppm	0.5032 ppm	9.9047 ppm	0.5029 ppm	0.4844 ppm	0.5007 ppm
Recovery Percentage 1	98.599 %	95.849 %	99.678 %	100.347 %	100.610 %	96.890 %	99.531 %
Concentration RSD	0.4 %	0.3 %	0.9 %	1.1 %	0.7 %	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	0.4673 ppm	5.5473 ppm	0.5096 ppm	0.5192 ppm	0.4934 ppm	0.4881 ppm	0.4863 ppm
Concentration per Run 1	0.4725 ppm	5.5473 ppm	0.5152 ppm	0.5208 ppm	0.4943 ppm	0.4928 ppm	0.4889 ppm
Concentration per Run 2	0.4635 ppm	5.5550 ppm	0.5024 ppm	0.5159 ppm	0.4943 ppm	0.4832 ppm	0.4872 ppm
Concentration per Run 3	0.4659 ppm	5.5394 ppm	0.5113 ppm	0.5208 ppm	0.4915 ppm	0.4882 ppm	0.4829 ppm
Recovery Percentage 1	93.458 %	105.662 %	101.929 %	103.833 %	98.678 %	97.621 %	97.267 %
Concentration RSD	1.0 %	0.1 %	1.3 %	0.6 %	0.3 %	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	0.4890 ppm	104.2311 %	104.7469 %	95.7847 %	91.0593 %	99.1926 %	92.7955 %
Concentration per Run 1	0.4941 ppm	103.7323 %	105.0177 %	95.8545 %	91.2516 %	99.4817 %	92.7945 %
Concentration per Run 2	0.4816 ppm	104.1575 %	104.9634 %	95.9803 %	90.9123 %	99.1480 %	93.0449 %
Concentration per Run 3	0.4913 ppm	104.8037 %	104.2596 %	95.5195 %	91.0139 %	98.9481 %	92.5471 %
Recovery Percentage 1	97.805 %						
Concentration RSD	1.3 %	0.5 %	0.4 %	0.2 %	0.2 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: CCB
Analysis started at: 12/20/2024 4:20:12 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	0.0034 ppm	0.0011 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0009 ppm
Concentration per Run 1	0.0001 ppm	0.0038 ppm	0.0011 ppm	-0.0017 ppm	0.0001 ppm	0.0000 ppm	0.0014 ppm
Concentration per Run 2	0.0001 ppm	0.0028 ppm	0.0005 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 3	-0.0003 ppm	0.0035 ppm	0.0018 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0008 ppm
Recovery Percentage 1	-0.523 %	3.375 %	22.776 %	-1.242 %	1.084 %	0.653 %	0.881 %
Concentration RSD	876.1 %	14.3 %	54.0 %	336.2 %	28.9 %	47.4 %	54.6 %

	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	0.0000 ppm	0.0006 ppm	0.0010 ppm	0.0068 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0009 ppm	0.0018 ppm	0.0047 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0004 ppm	0.0011 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0001 ppm	0.0157 ppm	0.0003 ppm
Recovery Percentage 1	-0.560 %	-1.638 %	0.259 %	5.745 %	2.002 %	0.273 %	5.106 %
Concentration RSD	146.3 %	62.3 %	366.1 %	44.3 %	87.1 %	117.7 %	33.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0003 ppm	0.0000 ppm	0.0022 ppm	-0.0147 ppm	0.0002 ppm	0.0006 ppm	0.0021 ppm
Concentration per Run 1	-0.0017 ppm	0.0000 ppm	0.0019 ppm	-0.0164 ppm	0.0000 ppm	0.0004 ppm	0.0021 ppm
Concentration per Run 2	0.0008 ppm	0.0000 ppm	0.0023 ppm	-0.0134 ppm	0.0003 ppm	0.0009 ppm	0.0025 ppm
Concentration per Run 3	0.0002 ppm	0.0001 ppm	0.0024 ppm	-0.0144 ppm	0.0005 ppm	0.0004 ppm	0.0018 ppm
Recovery Percentage 1	-0.260 %	0.163 %	4.373 %	-0.737 %	0.996 %	5.707 %	4.275 %
Concentration RSD	507.7 %	244.0 %	10.2 %	10.2 %	109.5 %	44.6 %	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	-0.0006 ppm	0.0044 ppm	-0.0004 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 1	-0.0001 ppm	0.0078 ppm	-0.0006 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 2	0.0005 ppm	0.0039 ppm	-0.0003 ppm	0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0001 ppm
Concentration per Run 3	-0.0022 ppm	0.0015 ppm	-0.0005 ppm	0.0000 ppm	0.0001 ppm	0.0010 ppm	0.0001 ppm
Recovery Percentage 1	-6.165 %	0.883 %	-0.882 %	0.433 %	1.333 %	2.849 %	0.400 %
Concentration RSD	232.4 %	72.5 %	29.8 %	70.5 %	66.6 %	76.9 %	259.1 %

	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	0.0003 ppm	99.3962 %	107.4981 %	96.3283 %	93.4641 %	102.8879 %	95.1481 %
Concentration per Run 1	0.0005 ppm	97.9583 %	102.8662 %	95.7220 %	93.2110 %	100.6742 %	95.5083 %
Concentration per Run 2	0.0001 ppm	99.2935 %	101.6116 %	96.2899 %	93.6118 %	99.5163 %	94.9389 %
Concentration per Run 3	0.0002 ppm	100.9368 %	118.0164 %	96.9728 %	93.5696 %	108.4731 %	94.9971 %
Recovery Percentage 1	5.371 %						
Concentration RSD	69.3 %	1.5 %	8.5 %	0.7 %	0.2 %	4.7 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: WG2011473-1 WG2011473
Analysis started at: 12/20/2024 4:27:32 PM
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	0.0000 ppm	0.0030 ppm	0.0006 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0032 ppm
Concentration per Run 1	0.0001 ppm	0.0026 ppm	0.0009 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0044 ppm
Concentration per Run 2	0.0000 ppm	0.0036 ppm	0.0005 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0006 ppm
Concentration per Run 3	-0.0001 ppm	0.0027 ppm	0.0004 ppm	-0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0045 ppm
Recovery Percentage 1	0.246 %	2.975 %	11.827 %	-0.878 %	0.421 %	-0.096 %	3.181 %
Concentration RSD	561.6 %	18.4 %	41.9 %	182.0 %	50.1 %	392.6 %	69.6 %

	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	-0.0003 ppm	-0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0075 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	-0.0006 ppm	-0.0001 ppm	0.0003 ppm	-0.0003 ppm	0.0110 ppm	-0.0003 ppm
Concentration per Run 2	0.0000 ppm	-0.0006 ppm	0.0001 ppm	0.0001 ppm	-0.0005 ppm	0.0103 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0005 ppm	0.0011 ppm	-0.0002 ppm
Recovery Percentage 1	0.117 %	-3.453 %	-0.530 %	2.756 %	-0.202 %	0.300 %	-0.512 %
Concentration RSD	764.9 %	115.5 %	206.3 %	56.2 %	535.5 %	74.0 %	643.6 %

	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	-0.0010 ppm	0.0001 ppm	0.0004 ppm	-0.0166 ppm	0.0002 ppm	-0.0001 ppm	0.0010 ppm
Concentration per Run 1	-0.0010 ppm	0.0001 ppm	0.0006 ppm	-0.0168 ppm	0.0004 ppm	0.0001 ppm	0.0019 ppm
Concentration per Run 2	-0.0008 ppm	0.0001 ppm	0.0002 ppm	-0.0151 ppm	0.0001 ppm	-0.0004 ppm	0.0009 ppm
Concentration per Run 3	-0.0012 ppm	0.0000 ppm	0.0006 ppm	-0.0180 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm
Recovery Percentage 1	-0.990 %	1.060 %	0.881 %	-0.832 %	0.688 %	-1.431 %	1.937 %
Concentration RSD	16.8 %	57.0 %	46.4 %	8.6 %	112.0 %	163.2 %	92.0 %

	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	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 1	-0.0015 ppm	0.0005 ppm	-0.0008 ppm	0.0000 ppm	-0.0001 ppm	0.0007 ppm	0.0000 ppm
Concentration per Run 2	-0.0017 ppm	-0.0007 ppm	0.0011 ppm	0.0001 ppm	0.0004 ppm	0.0004 ppm	-0.0001 ppm
Concentration per Run 3	-0.0020 ppm	-0.0006 ppm	-0.0004 ppm	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0000 ppm
Recovery Percentage 1	-17.502 %	-0.047 %	-0.091 %	0.170 %	0.806 %	2.675 %	-0.171 %
Concentration RSD	14.0 %	286.3 %	2,144.8 %	333.0 %	325.0 %	24.5 %	371.8 %

	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	-0.0003 ppm	112.3325 %	106.4681 %	109.9327 %	96.9639 %	100.9341 %	97.6535 %
Concentration per Run 1	-0.0004 ppm	111.9589 %	107.1735 %	109.5959 %	96.8314 %	101.4283 %	97.2501 %
Concentration per Run 2	-0.0003 ppm	112.4567 %	106.4061 %	110.0942 %	97.1102 %	101.1956 %	97.9708 %
Concentration per Run 3	-0.0001 ppm	112.5819 %	105.8247 %	110.1079 %	96.9502 %	100.1783 %	97.7396 %
Recovery Percentage 1	-5.396 %						
Concentration RSD	53.0 %	0.3 %	0.6 %	0.3 %	0.1 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473626-01d2 WG2011408
Analysis started at: 12/20/2024 4:32:15 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	0.0019 ppm	63.6871 ppm	0.0231 ppm	0.0259 ppm	0.3331 ppm	0.0026 ppm	23.2743 ppm
Concentration per Run 1	0.0018 ppm	64.3012 ppm	0.0242 ppm	0.0262 ppm	0.3368 ppm	0.0026 ppm	23.2089 ppm
Concentration per Run 2	0.0018 ppm	63.4123 ppm	0.0225 ppm	0.0270 ppm	0.3314 ppm	0.0025 ppm	23.3481 ppm
Concentration per Run 3	0.0020 ppm	63.3477 ppm	0.0225 ppm	0.0245 ppm	0.3311 ppm	0.0026 ppm	23.2659 ppm
Concentration RSD	7.2 %	0.8 %	4.3 %	4.9 %	1.0 %	1.7 %	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	0.0013 ppm	0.0448 ppm	0.0815 ppm	0.1973 ppm	118.1876 ppm	5.4733 ppm	0.0668 ppm
Concentration per Run 1	0.0012 ppm	0.0450 ppm	0.0818 ppm	0.1988 ppm	117.9106 ppm	5.5757 ppm	0.0685 ppm
Concentration per Run 2	0.0014 ppm	0.0452 ppm	0.0812 ppm	0.1971 ppm	118.4110 ppm	5.4360 ppm	0.0654 ppm
Concentration per Run 3	0.0014 ppm	0.0443 ppm	0.0815 ppm	0.1960 ppm	118.2413 ppm	5.4084 ppm	0.0665 ppm
Concentration RSD	8.5 %	1.1 %	0.3 %	0.7 %	0.2 %	1.6 %	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	17.4618 ppm	2.9074 ppm	0.0043 ppm	4.2461 ppm	0.0608 ppm	1.3828 ppm	0.0019 ppm
Concentration per Run 1	17.4966 ppm	2.8944 ppm	0.0040 ppm	4.3332 ppm	0.0614 ppm	1.3889 ppm	0.0024 ppm
Concentration per Run 2	17.4920 ppm	2.9173 ppm	0.0045 ppm	4.1975 ppm	0.0606 ppm	1.3775 ppm	0.0023 ppm
Concentration per Run 3	17.3969 ppm	2.9104 ppm	0.0044 ppm	4.2077 ppm	0.0604 ppm	1.3818 ppm	0.0011 ppm
Concentration RSD	0.3 %	0.4 %	6.8 %	1.8 %	0.9 %	0.4 %	39.0 %

	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	-0.0013 ppm	5.7666 ppm	0.0307 ppm	0.1126 ppm	3.2744 ppm	0.0000 ppm	0.3059 ppm
Concentration per Run 1	-0.0009 ppm	5.7618 ppm	0.0311 ppm	0.1136 ppm	3.2872 ppm	-0.0002 ppm	0.3061 ppm
Concentration per Run 2	-0.0029 ppm	5.8980 ppm	0.0308 ppm	0.1118 ppm	3.2644 ppm	-0.0003 ppm	0.3073 ppm
Concentration per Run 3	-0.0002 ppm	5.6399 ppm	0.0303 ppm	0.1123 ppm	3.2716 ppm	0.0004 ppm	0.3042 ppm
Concentration RSD	104.4 %	2.2 %	1.4 %	0.8 %	0.4 %	2,049.1 %	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	0.6229 ppm	108.1206 %	110.8759 %	87.4632 %	109.8632 %	124.0081 %	112.6909 %
Concentration per Run 1	0.6248 ppm	107.7161 %	111.4722 %	86.9770 %	109.8615 %	124.8890 %	112.4490 %
Concentration per Run 2	0.6242 ppm	108.0363 %	109.9909 %	87.7514 %	110.1766 %	123.5754 %	112.7517 %
Concentration per Run 3	0.6197 ppm	108.6094 %	111.1647 %	87.6613 %	109.5514 %	123.5598 %	112.8718 %
Concentration RSD	0.4 %	0.4 %	0.7 %	0.5 %	0.3 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473626-02d2 WG2011408
Analysis started at: 12/20/2024 4:36:40 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	0.0025 ppm	67.0389 ppm	0.0473 ppm	0.0351 ppm	0.6546 ppm	0.0030 ppm	50.7474 ppm
Concentration per Run 1	0.0024 ppm	67.1251 ppm	0.0482 ppm	0.0352 ppm	0.6500 ppm	0.0031 ppm	50.5132 ppm
Concentration per Run 2	0.0027 ppm	67.5450 ppm	0.0483 ppm	0.0363 ppm	0.6621 ppm	0.0031 ppm	51.3902 ppm
Concentration per Run 3	0.0024 ppm	66.4465 ppm	0.0452 ppm	0.0338 ppm	0.6516 ppm	0.0029 ppm	50.3387 ppm
Concentration RSD	6.4 %	0.8 %	3.7 %	3.6 %	1.0 %	3.7 %	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	0.0013 ppm	0.0463 ppm	0.0944 ppm	0.2475 ppm	117.4033 ppm	5.8955 ppm	0.1153 ppm
Concentration per Run 1	0.0013 ppm	0.0468 ppm	0.0953 ppm	0.2485 ppm	116.5366 ppm	5.8749 ppm	0.1146 ppm
Concentration per Run 2	0.0013 ppm	0.0464 ppm	0.0935 ppm	0.2467 ppm	118.6850 ppm	5.9379 ppm	0.1169 ppm
Concentration per Run 3	0.0013 ppm	0.0458 ppm	0.0943 ppm	0.2472 ppm	116.9884 ppm	5.8737 ppm	0.1144 ppm
Concentration RSD	1.4 %	1.1 %	1.0 %	0.4 %	1.0 %	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	26.1322 ppm	2.7733 ppm	0.0071 ppm	4.8793 ppm	0.0767 ppm	2.7284 ppm	0.0059 ppm
Concentration per Run 1	26.1510 ppm	2.7591 ppm	0.0068 ppm	4.9342 ppm	0.0771 ppm	2.7356 ppm	0.0043 ppm
Concentration per Run 2	26.1133 ppm	2.8007 ppm	0.0072 ppm	4.8665 ppm	0.0762 ppm	2.7428 ppm	0.0077 ppm
Concentration per Run 3	26.1323 ppm	2.7602 ppm	0.0073 ppm	4.8372 ppm	0.0769 ppm	2.7067 ppm	0.0056 ppm
Concentration RSD	0.1 %	0.9 %	4.0 %	1.0 %	0.7 %	0.7 %	29.5 %

	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	9.6177 ppm	0.4292 ppm	0.2929 ppm	3.5160 ppm	0.0008 ppm	0.3283 ppm
Concentration per Run 1	0.0020 ppm	10.0478 ppm	0.4320 ppm	0.2913 ppm	3.5574 ppm	0.0014 ppm	0.3312 ppm
Concentration per Run 2	0.0017 ppm	9.5380 ppm	0.4250 ppm	0.2969 ppm	3.4877 ppm	0.0005 ppm	0.3271 ppm
Concentration per Run 3	-0.0017 ppm	9.2674 ppm	0.4306 ppm	0.2904 ppm	3.5027 ppm	0.0006 ppm	0.3266 ppm
Concentration RSD	309.4 %	4.1 %	0.9 %	1.2 %	1.0 %	61.1 %	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	0.7921 ppm	105.6635 %	108.6183 %	85.0796 %	108.5176 %	122.5298 %	111.4729 %
Concentration per Run 1	0.7921 ppm	105.6124 %	109.5991 %	84.7887 %	109.7734 %	123.0877 %	111.2961 %
Concentration per Run 2	0.7904 ppm	105.5086 %	107.4433 %	84.4691 %	108.2970 %	122.0281 %	110.9906 %
Concentration per Run 3	0.7939 ppm	105.8695 %	108.8126 %	85.9810 %	107.4824 %	122.4736 %	112.1321 %
Concentration RSD	0.2 %	0.2 %	1.0 %	0.9 %	1.1 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473626-03d2 WG2011408
Analysis started at: 12/20/2024 4:41:05 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	0.0009 ppm	31.0101 ppm	0.0152 ppm	0.0118 ppm	0.2233 ppm	0.0022 ppm	4.8977 ppm
Concentration per Run 1	0.0009 ppm	31.1081 ppm	0.0169 ppm	0.0123 ppm	0.2226 ppm	0.0023 ppm	4.9021 ppm
Concentration per Run 2	0.0009 ppm	31.2260 ppm	0.0147 ppm	0.0115 ppm	0.2243 ppm	0.0023 ppm	4.9466 ppm
Concentration per Run 3	0.0007 ppm	30.6962 ppm	0.0142 ppm	0.0117 ppm	0.2230 ppm	0.0022 ppm	4.8443 ppm
Concentration RSD	11.0 %	0.9 %	9.5 %	3.3 %	0.4 %	2.4 %	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	0.0006 ppm	0.0232 ppm	0.0579 ppm	0.0791 ppm	92.8173 ppm	4.4661 ppm	0.0364 ppm
Concentration per Run 1	0.0006 ppm	0.0236 ppm	0.0583 ppm	0.0806 ppm	92.5465 ppm	4.4796 ppm	0.0376 ppm
Concentration per Run 2	0.0006 ppm	0.0232 ppm	0.0580 ppm	0.0784 ppm	93.5904 ppm	4.5097 ppm	0.0360 ppm
Concentration per Run 3	0.0006 ppm	0.0229 ppm	0.0575 ppm	0.0781 ppm	92.3150 ppm	4.4090 ppm	0.0357 ppm
Concentration RSD	3.4 %	1.4 %	0.7 %	1.7 %	0.7 %	1.2 %	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	9.4498 ppm	2.1777 ppm	0.0010 ppm	1.7505 ppm	0.0366 ppm	0.0700 ppm	0.0007 ppm
Concentration per Run 1	9.5152 ppm	2.1639 ppm	0.0011 ppm	1.7612 ppm	0.0369 ppm	0.0709 ppm	-0.0004 ppm
Concentration per Run 2	9.4564 ppm	2.2009 ppm	0.0010 ppm	1.7608 ppm	0.0366 ppm	0.0692 ppm	0.0005 ppm
Concentration per Run 3	9.3777 ppm	2.1683 ppm	0.0011 ppm	1.7296 ppm	0.0364 ppm	0.0699 ppm	0.0020 ppm
Concentration RSD	0.7 %	0.9 %	2.3 %	1.0 %	0.6 %	1.2 %	165.9 %

	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	3.3596 ppm	0.0233 ppm	0.0352 ppm	2.0380 ppm	0.0002 ppm	0.2724 ppm
Concentration per Run 1	-0.0011 ppm	3.3536 ppm	0.0228 ppm	0.0353 ppm	2.0530 ppm	0.0008 ppm	0.2744 ppm
Concentration per Run 2	-0.0022 ppm	3.3274 ppm	0.0237 ppm	0.0354 ppm	2.0312 ppm	0.0004 ppm	0.2719 ppm
Concentration per Run 3	-0.0033 ppm	3.3978 ppm	0.0233 ppm	0.0348 ppm	2.0298 ppm	-0.0006 ppm	0.2707 ppm
Concentration RSD	49.1 %	1.1 %	2.0 %	0.9 %	0.6 %	337.6 %	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	0.0953 ppm	107.6933 %	109.0814 %	92.0260 %	114.9610 %	126.8700 %	117.6977 %
Concentration per Run 1	0.0961 ppm	107.1289 %	109.7101 %	92.0648 %	115.1032 %	127.5201 %	118.1199 %
Concentration per Run 2	0.0957 ppm	107.6995 %	107.6029 %	91.1411 %	115.1785 %	125.5865 %	116.8929 %
Concentration per Run 3	0.0942 ppm	108.2517 %	109.9312 %	92.8720 %	114.6014 %	127.5036 %	118.0803 %
Concentration RSD	1.1 %	0.5 %	1.2 %	0.9 %	0.3 %	0.9 %	0.6 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473629-01d2 WG2011408
Analysis started at: 12/20/2024 4:45:30 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	0.0006 ppm	44.6799 ppm	0.0103 ppm	0.0190 ppm	0.0963 ppm	0.0022 ppm	1.5052 ppm
Concentration per Run 1	0.0005 ppm	44.7248 ppm	0.0106 ppm	0.0182 ppm	0.0965 ppm	0.0022 ppm	1.5040 ppm
Concentration per Run 2	0.0004 ppm	44.4691 ppm	0.0103 ppm	0.0198 ppm	0.0964 ppm	0.0023 ppm	1.4960 ppm
Concentration per Run 3	0.0008 ppm	44.8459 ppm	0.0100 ppm	0.0190 ppm	0.0959 ppm	0.0022 ppm	1.5157 ppm
Concentration RSD	36.3 %	0.4 %	2.7 %	4.3 %	0.3 %	2.7 %	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	0.0004 ppm	0.0294 ppm	0.0591 ppm	0.0686 ppm	78.7346 ppm	4.7972 ppm	0.0561 ppm
Concentration per Run 1	0.0004 ppm	0.0292 ppm	0.0590 ppm	0.0689 ppm	78.7382 ppm	4.8424 ppm	0.0575 ppm
Concentration per Run 2	0.0004 ppm	0.0293 ppm	0.0594 ppm	0.0684 ppm	78.5329 ppm	4.7302 ppm	0.0548 ppm
Concentration per Run 3	0.0004 ppm	0.0295 ppm	0.0589 ppm	0.0686 ppm	78.9326 ppm	4.8190 ppm	0.0559 ppm
Concentration RSD	1.6 %	0.4 %	0.4 %	0.4 %	0.3 %	1.2 %	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	13.8726 ppm	2.1492 ppm	0.0009 ppm	1.6290 ppm	0.0554 ppm	0.0371 ppm	0.0012 ppm
Concentration per Run 1	13.8838 ppm	2.1584 ppm	0.0006 ppm	1.6333 ppm	0.0546 ppm	0.0379 ppm	0.0013 ppm
Concentration per Run 2	13.9423 ppm	2.1354 ppm	0.0011 ppm	1.6135 ppm	0.0562 ppm	0.0363 ppm	0.0016 ppm
Concentration per Run 3	13.7918 ppm	2.1537 ppm	0.0010 ppm	1.6402 ppm	0.0555 ppm	0.0372 ppm	0.0007 ppm
Concentration RSD	0.5 %	0.6 %	26.7 %	0.9 %	1.5 %	2.2 %	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	-0.0022 ppm	2.7156 ppm	0.0018 ppm	0.0127 ppm	2.7952 ppm	-0.0005 ppm	0.1679 ppm
Concentration per Run 1	-0.0028 ppm	2.7129 ppm	0.0026 ppm	0.0128 ppm	2.8063 ppm	0.0001 ppm	0.1683 ppm
Concentration per Run 2	-0.0015 ppm	2.7715 ppm	0.0010 ppm	0.0126 ppm	2.8053 ppm	0.0003 ppm	0.1687 ppm
Concentration per Run 3	-0.0022 ppm	2.6624 ppm	0.0018 ppm	0.0126 ppm	2.7741 ppm	-0.0019 ppm	0.1666 ppm
Concentration RSD	30.3 %	2.0 %	43.5 %	0.7 %	0.7 %	249.5 %	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	0.2239 ppm	106.8200 %	108.8728 %	90.7699 %	97.5200 %	107.9830 %	100.0405 %
Concentration per Run 1	0.2228 ppm	106.6278 %	108.9275 %	90.0924 %	97.6913 %	108.1485 %	99.9652 %
Concentration per Run 2	0.2268 ppm	106.7561 %	109.4498 %	91.3297 %	97.7537 %	108.3410 %	100.0867 %
Concentration per Run 3	0.2221 ppm	107.0760 %	108.2412 %	90.8875 %	97.1149 %	107.4596 %	100.0696 %
Concentration RSD	1.1 %	0.2 %	0.6 %	0.7 %	0.4 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473629-02d2 WG2011408
Analysis started at: 12/20/2024 4:49:55 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	0.0010 ppm	50.2603 ppm	0.0128 ppm	0.0171 ppm	0.1773 ppm	0.0027 ppm	5.4762 ppm
Concentration per Run 1	0.0009 ppm	50.2067 ppm	0.0128 ppm	0.0174 ppm	0.1781 ppm	0.0027 ppm	5.5320 ppm
Concentration per Run 2	0.0011 ppm	50.2935 ppm	0.0126 ppm	0.0166 ppm	0.1766 ppm	0.0027 ppm	5.4670 ppm
Concentration per Run 3	0.0009 ppm	50.2808 ppm	0.0132 ppm	0.0174 ppm	0.1773 ppm	0.0027 ppm	5.4295 ppm
Concentration RSD	11.2 %	0.1 %	2.6 %	2.9 %	0.4 %	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	0.0007 ppm	0.0375 ppm	0.0835 ppm	0.1021 ppm	88.9582 ppm	4.7120 ppm	0.0667 ppm
Concentration per Run 1	0.0008 ppm	0.0379 ppm	0.0840 ppm	0.1028 ppm	89.9491 ppm	4.6998 ppm	0.0666 ppm
Concentration per Run 2	0.0007 ppm	0.0378 ppm	0.0839 ppm	0.1021 ppm	88.9663 ppm	4.7211 ppm	0.0665 ppm
Concentration per Run 3	0.0007 ppm	0.0370 ppm	0.0826 ppm	0.1015 ppm	87.9593 ppm	4.7150 ppm	0.0671 ppm
Concentration RSD	6.5 %	1.3 %	0.9 %	0.6 %	1.1 %	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	20.7541 ppm	2.7662 ppm	0.0009 ppm	1.3307 ppm	0.0585 ppm	0.0400 ppm	0.0002 ppm
Concentration per Run 1	20.9401 ppm	2.7850 ppm	0.0011 ppm	1.3246 ppm	0.0590 ppm	0.0399 ppm	-0.0003 ppm
Concentration per Run 2	20.7515 ppm	2.7683 ppm	0.0010 ppm	1.3225 ppm	0.0582 ppm	0.0406 ppm	0.0007 ppm
Concentration per Run 3	20.5707 ppm	2.7452 ppm	0.0006 ppm	1.3450 ppm	0.0581 ppm	0.0394 ppm	0.0002 ppm
Concentration RSD	0.9 %	0.7 %	28.8 %	0.9 %	0.9 %	1.6 %	207.6 %

	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	-0.0031 ppm	4.5618 ppm	0.0019 ppm	0.0242 ppm	3.2723 ppm	0.0003 ppm	0.1999 ppm
Concentration per Run 1	-0.0046 ppm	4.5652 ppm	0.0022 ppm	0.0243 ppm	3.2913 ppm	0.0004 ppm	0.2013 ppm
Concentration per Run 2	-0.0020 ppm	4.5102 ppm	0.0020 ppm	0.0241 ppm	3.2724 ppm	-0.0008 ppm	0.1990 ppm
Concentration per Run 3	-0.0028 ppm	4.6101 ppm	0.0014 ppm	0.0241 ppm	3.2531 ppm	0.0014 ppm	0.1994 ppm
Concentration RSD	43.3 %	1.1 %	20.7 %	0.4 %	0.6 %	346.5 %	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	0.2218 ppm	108.0274 %	110.7007 %	90.5285 %	101.5255 %	113.7453 %	104.6929 %
Concentration per Run 1	0.2253 ppm	107.2543 %	109.2583 %	90.2759 %	101.4000 %	112.6760 %	104.3930 %
Concentration per Run 2	0.2217 ppm	107.8397 %	110.9799 %	91.2558 %	101.0534 %	114.0914 %	105.5982 %
Concentration per Run 3	0.2184 ppm	108.9881 %	111.8638 %	90.0537 %	102.1230 %	114.4684 %	104.0876 %
Concentration RSD	1.6 %	0.8 %	1.2 %	0.7 %	0.5 %	0.8 %	0.8 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473629-06d2 WG2011408
Analysis started at: 12/20/2024 4:54:20 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	0.0006 ppm	22.5573 ppm	0.0061 ppm	0.0073 ppm	0.1864 ppm	0.0015 ppm	5.5486 ppm
Concentration per Run 1	0.0006 ppm	22.4240 ppm	0.0060 ppm	0.0076 ppm	0.1848 ppm	0.0015 ppm	5.5390 ppm
Concentration per Run 2	0.0006 ppm	22.6235 ppm	0.0049 ppm	0.0079 ppm	0.1865 ppm	0.0014 ppm	5.5705 ppm
Concentration per Run 3	0.0004 ppm	22.6243 ppm	0.0073 ppm	0.0065 ppm	0.1878 ppm	0.0015 ppm	5.5364 ppm
Concentration RSD	25.6 %	0.5 %	20.3 %	9.8 %	0.8 %	1.1 %	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	0.0004 ppm	0.0193 ppm	0.0365 ppm	0.0562 ppm	46.1660 ppm	3.4462 ppm	0.0274 ppm
Concentration per Run 1	0.0004 ppm	0.0195 ppm	0.0369 ppm	0.0564 ppm	45.7488 ppm	3.4037 ppm	0.0270 ppm
Concentration per Run 2	0.0004 ppm	0.0188 ppm	0.0366 ppm	0.0562 ppm	46.4602 ppm	3.4296 ppm	0.0275 ppm
Concentration per Run 3	0.0004 ppm	0.0196 ppm	0.0361 ppm	0.0559 ppm	46.2889 ppm	3.5054 ppm	0.0279 ppm
Concentration RSD	6.9 %	2.3 %	1.0 %	0.5 %	0.8 %	1.5 %	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	7.9316 ppm	1.7757 ppm	0.0004 ppm	0.7769 ppm	0.0259 ppm	0.0235 ppm	0.0015 ppm
Concentration per Run 1	8.0082 ppm	1.7660 ppm	0.0007 ppm	0.7646 ppm	0.0256 ppm	0.0229 ppm	0.0016 ppm
Concentration per Run 2	7.9172 ppm	1.7869 ppm	0.0001 ppm	0.7792 ppm	0.0259 ppm	0.0234 ppm	0.0024 ppm
Concentration per Run 3	7.8695 ppm	1.7743 ppm	0.0004 ppm	0.7871 ppm	0.0261 ppm	0.0242 ppm	0.0006 ppm
Concentration RSD	0.9 %	0.6 %	73.2 %	1.5 %	1.0 %	2.8 %	61.4 %

	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	-0.0021 ppm	2.8402 ppm	0.0012 ppm	0.0274 ppm	1.3898 ppm	-0.0007 ppm	0.0994 ppm
Concentration per Run 1	-0.0031 ppm	2.8584 ppm	0.0012 ppm	0.0271 ppm	1.4022 ppm	-0.0004 ppm	0.1007 ppm
Concentration per Run 2	-0.0009 ppm	2.8687 ppm	0.0015 ppm	0.0274 ppm	1.3871 ppm	-0.0014 ppm	0.0995 ppm
Concentration per Run 3	-0.0024 ppm	2.7936 ppm	0.0009 ppm	0.0276 ppm	1.3803 ppm	-0.0003 ppm	0.0979 ppm
Concentration RSD	52.3 %	1.4 %	23.8 %	0.9 %	0.8 %	91.0 %	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	0.0720 ppm	105.9006 %	107.3857 %	94.0609 %	101.9866 %	113.2390 %	105.5788 %
Concentration per Run 1	0.0726 ppm	105.2115 %	108.0540 %	93.7650 %	102.0478 %	113.4168 %	105.5653 %
Concentration per Run 2	0.0713 ppm	105.8979 %	106.7844 %	94.2587 %	102.1381 %	112.6683 %	105.8500 %
Concentration per Run 3	0.0723 ppm	106.5924 %	107.3186 %	94.1589 %	101.7738 %	113.6319 %	105.3211 %
Concentration RSD	0.9 %	0.7 %	0.6 %	0.3 %	0.2 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473633-01d2 WG2011408
Analysis started at: 12/20/2024 4:58:45 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	0.0011 ppm	44.8769 ppm	0.0115 ppm	0.0163 ppm	0.2209 ppm	0.0025 ppm	6.5233 ppm
Concentration per Run 1	0.0009 ppm	45.1076 ppm	0.0111 ppm	0.0155 ppm	0.2217 ppm	0.0025 ppm	6.5242 ppm
Concentration per Run 2	0.0011 ppm	44.6892 ppm	0.0104 ppm	0.0167 ppm	0.2195 ppm	0.0025 ppm	6.5183 ppm
Concentration per Run 3	0.0013 ppm	44.8339 ppm	0.0128 ppm	0.0166 ppm	0.2213 ppm	0.0025 ppm	6.5275 ppm
Concentration RSD	17.2 %	0.5 %	10.7 %	3.9 %	0.5 %	0.6 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0008 ppm	0.0333 ppm	0.0649 ppm	0.1178 ppm	86.9643 ppm	3.9456 ppm	0.0620 ppm
Concentration per Run 1	0.0008 ppm	0.0339 ppm	0.0656 ppm	0.1188 ppm	87.0334 ppm	3.9749 ppm	0.0631 ppm
Concentration per Run 2	0.0006 ppm	0.0332 ppm	0.0647 ppm	0.1177 ppm	86.7816 ppm	3.9119 ppm	0.0604 ppm
Concentration per Run 3	0.0008 ppm	0.0329 ppm	0.0644 ppm	0.1170 ppm	87.0779 ppm	3.9499 ppm	0.0624 ppm
Concentration RSD	15.7 %	1.5 %	1.0 %	0.8 %	0.2 %	0.8 %	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	16.5974 ppm	2.4374 ppm	0.0006 ppm	1.8018 ppm	0.0547 ppm	0.0581 ppm	0.0007 ppm
Concentration per Run 1	16.6197 ppm	2.4387 ppm	0.0006 ppm	1.8122 ppm	0.0551 ppm	0.0585 ppm	0.0009 ppm
Concentration per Run 2	16.6079 ppm	2.4339 ppm	0.0005 ppm	1.7922 ppm	0.0544 ppm	0.0575 ppm	0.0021 ppm
Concentration per Run 3	16.5647 ppm	2.4395 ppm	0.0007 ppm	1.8009 ppm	0.0545 ppm	0.0582 ppm	-0.0011 ppm
Concentration RSD	0.2 %	0.1 %	9.2 %	0.6 %	0.8 %	0.8 %	247.4 %

	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	3.1476 ppm	0.0024 ppm	0.0384 ppm	2.2488 ppm	-0.0002 ppm	0.2112 ppm
Concentration per Run 1	-0.0011 ppm	3.1481 ppm	0.0023 ppm	0.0386 ppm	2.2560 ppm	-0.0001 ppm	0.2117 ppm
Concentration per Run 2	0.0005 ppm	3.1047 ppm	0.0026 ppm	0.0382 ppm	2.2485 ppm	-0.0005 ppm	0.2118 ppm
Concentration per Run 3	-0.0028 ppm	3.1901 ppm	0.0023 ppm	0.0383 ppm	2.2418 ppm	0.0000 ppm	0.2102 ppm
Concentration RSD	145.3 %	1.4 %	7.1 %	0.6 %	0.3 %	134.7 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1421 ppm	107.6451 %	110.4369 %	92.1348 %	108.2053 %	121.1916 %	111.1511 %
Concentration per Run 1	0.1424 ppm	107.2775 %	110.5718 %	91.4562 %	108.7043 %	121.2720 %	110.9704 %
Concentration per Run 2	0.1416 ppm	108.0645 %	110.5820 %	92.3358 %	108.0813 %	121.5208 %	111.4393 %
Concentration per Run 3	0.1423 ppm	107.5932 %	110.1569 %	92.6123 %	107.8303 %	120.7820 %	111.0435 %
Concentration RSD	0.3 %	0.4 %	0.2 %	0.7 %	0.4 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473633-02d2 WG2011408
Analysis started at: 12/20/2024 5:03:11 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	0.0018 ppm	61.0463 ppm	0.0407 ppm	0.0394 ppm	1.1203 ppm	0.0025 ppm	109.5148 ppm
Concentration per Run 1	0.0018 ppm	60.9102 ppm	0.0400 ppm	0.0403 ppm	1.1166 ppm	0.0025 ppm	109.7010 ppm
Concentration per Run 2	0.0018 ppm	61.4482 ppm	0.0407 ppm	0.0403 ppm	1.1298 ppm	0.0024 ppm	109.2876 ppm
Concentration per Run 3	0.0019 ppm	60.7804 ppm	0.0415 ppm	0.0377 ppm	1.1143 ppm	0.0025 ppm	109.5557 ppm
Concentration RSD	3.5 %	0.6 %	1.9 %	3.9 %	0.7 %	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	0.0008 ppm	0.0343 ppm	0.0943 ppm	0.2038 ppm	104.4288 ppm	6.0051 ppm	0.0634 ppm
Concentration per Run 1	0.0008 ppm	0.0348 ppm	0.0960 ppm	0.2059 ppm	104.4095 ppm	5.9626 ppm	0.0635 ppm
Concentration per Run 2	0.0009 ppm	0.0342 ppm	0.0938 ppm	0.2033 ppm	104.6398 ppm	6.0840 ppm	0.0638 ppm
Concentration per Run 3	0.0008 ppm	0.0341 ppm	0.0932 ppm	0.2022 ppm	104.2372 ppm	5.9686 ppm	0.0628 ppm
Concentration RSD	2.3 %	1.1 %	1.5 %	0.9 %	0.2 %	1.1 %	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	22.3832 ppm	2.6392 ppm	0.0025 ppm	3.5912 ppm	0.0604 ppm	10.1514 ppm	0.0046 ppm
Concentration per Run 1	22.7694 ppm	2.6397 ppm	0.0021 ppm	3.5710 ppm	0.0618 ppm	10.1935 ppm	0.0059 ppm
Concentration per Run 2	22.2166 ppm	2.6357 ppm	0.0030 ppm	3.6402 ppm	0.0596 ppm	10.1428 ppm	0.0032 ppm
Concentration per Run 3	22.1636 ppm	2.6423 ppm	0.0024 ppm	3.5623 ppm	0.0598 ppm	10.1179 ppm	0.0048 ppm
Concentration RSD	1.5 %	0.1 %	18.2 %	1.2 %	2.0 %	0.4 %	30.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0013 ppm	7.8546 ppm	0.1368 ppm	0.2365 ppm	2.7215 ppm	-0.0008 ppm	0.2213 ppm
Concentration per Run 1	0.0032 ppm	8.0421 ppm	0.1404 ppm	0.2359 ppm	2.7606 ppm	0.0000 ppm	0.2240 ppm
Concentration per Run 2	-0.0007 ppm	7.9305 ppm	0.1349 ppm	0.2388 ppm	2.7094 ppm	-0.0018 ppm	0.2201 ppm
Concentration per Run 3	0.0014 ppm	7.5913 ppm	0.1351 ppm	0.2348 ppm	2.6946 ppm	-0.0008 ppm	0.2199 ppm
Concentration RSD	152.5 %	3.0 %	2.3 %	0.9 %	1.3 %	106.1 %	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	0.9749 ppm	104.1207 %	107.0420 %	82.7639 %	104.7930 %	118.5723 %	105.8412 %
Concentration per Run 1	0.9975 ppm	102.7335 %	107.0494 %	82.0189 %	103.8848 %	118.8379 %	105.1957 %
Concentration per Run 2	0.9640 ppm	104.6349 %	107.2322 %	82.9823 %	105.2480 %	118.5597 %	105.8530 %
Concentration per Run 3	0.9631 ppm	104.9936 %	106.8443 %	83.2904 %	105.2463 %	118.3193 %	106.4748 %
Concentration RSD	2.0 %	1.2 %	0.2 %	0.8 %	0.8 %	0.2 %	0.6 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473633-03d2 WG2011408
Analysis started at: 12/20/2024 5:07:36 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	0.0013 ppm	39.9038 ppm	0.0142 ppm	0.0206 ppm	0.4309 ppm	0.0025 ppm	4.2098 ppm
Concentration per Run 1	0.0013 ppm	39.9959 ppm	0.0144 ppm	0.0208 ppm	0.4305 ppm	0.0025 ppm	4.2294 ppm
Concentration per Run 2	0.0015 ppm	39.7458 ppm	0.0130 ppm	0.0209 ppm	0.4297 ppm	0.0025 ppm	4.1784 ppm
Concentration per Run 3	0.0013 ppm	39.9698 ppm	0.0153 ppm	0.0200 ppm	0.4326 ppm	0.0026 ppm	4.2216 ppm
Concentration RSD	7.8 %	0.3 %	8.1 %	2.3 %	0.4 %	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	0.0007 ppm	0.0271 ppm	0.0571 ppm	0.0797 ppm	84.2789 ppm	6.0499 ppm	0.0462 ppm
Concentration per Run 1	0.0008 ppm	0.0271 ppm	0.0575 ppm	0.0804 ppm	84.4447 ppm	6.0847 ppm	0.0468 ppm
Concentration per Run 2	0.0007 ppm	0.0273 ppm	0.0572 ppm	0.0799 ppm	83.6639 ppm	5.9797 ppm	0.0453 ppm
Concentration per Run 3	0.0007 ppm	0.0270 ppm	0.0566 ppm	0.0788 ppm	84.7282 ppm	6.0852 ppm	0.0465 ppm
Concentration RSD	6.6 %	0.5 %	0.8 %	1.0 %	0.7 %	1.0 %	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	12.3213 ppm	2.3972 ppm	0.0007 ppm	2.5666 ppm	0.0388 ppm	0.0488 ppm	-0.0001 ppm
Concentration per Run 1	12.4408 ppm	2.4031 ppm	0.0005 ppm	2.5858 ppm	0.0399 ppm	0.0487 ppm	-0.0003 ppm
Concentration per Run 2	12.3493 ppm	2.3800 ppm	0.0007 ppm	2.5479 ppm	0.0389 ppm	0.0494 ppm	0.0009 ppm
Concentration per Run 3	12.1738 ppm	2.4086 ppm	0.0009 ppm	2.5661 ppm	0.0377 ppm	0.0483 ppm	-0.0009 ppm
Concentration RSD	1.1 %	0.6 %	27.8 %	0.7 %	2.9 %	1.2 %	997.8 %

	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	-0.0022 ppm	3.7525 ppm	0.0025 ppm	0.0390 ppm	2.2428 ppm	-0.0001 ppm	0.2076 ppm
Concentration per Run 1	-0.0011 ppm	3.8518 ppm	0.0022 ppm	0.0390 ppm	2.2623 ppm	-0.0010 ppm	0.2089 ppm
Concentration per Run 2	-0.0035 ppm	3.7986 ppm	0.0030 ppm	0.0389 ppm	2.2538 ppm	0.0002 ppm	0.2076 ppm
Concentration per Run 3	-0.0020 ppm	3.6072 ppm	0.0022 ppm	0.0391 ppm	2.2123 ppm	0.0004 ppm	0.2062 ppm
Concentration RSD	56.2 %	3.4 %	18.0 %	0.3 %	1.2 %	526.6 %	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	0.1042 ppm	108.0725 %	110.2923 %	92.7214 %	112.8042 %	126.3392 %	116.7093 %
Concentration per Run 1	0.1055 ppm	107.4657 %	110.1056 %	92.3839 %	113.1528 %	126.1810 %	116.8241 %
Concentration per Run 2	0.1046 ppm	107.4239 %	111.4844 %	92.7516 %	111.8577 %	127.3649 %	116.6865 %
Concentration per Run 3	0.1024 ppm	109.3280 %	109.2868 %	93.0287 %	113.4019 %	125.4717 %	116.6174 %
Concentration RSD	1.5 %	1.0 %	1.0 %	0.3 %	0.7 %	0.8 %	0.1 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: CCV
Analysis started at: 12/20/2024 5:12:02 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	0.4895 ppm	0.4795 ppm	0.4574 ppm	0.4870 ppm	0.4948 ppm	0.5009 ppm	0.4890 ppm
Concentration per Run 1	0.4927 ppm	0.4781 ppm	0.4578 ppm	0.4942 ppm	0.4947 ppm	0.5005 ppm	0.4906 ppm
Concentration per Run 2	0.4909 ppm	0.4805 ppm	0.4614 ppm	0.4857 ppm	0.4895 ppm	0.4997 ppm	0.4866 ppm
Concentration per Run 3	0.4849 ppm	0.4800 ppm	0.4529 ppm	0.4812 ppm	0.5002 ppm	0.5026 ppm	0.4896 ppm
Recovery Percentage 1	97.898 %	95.908 %	91.475 %	97.405 %	98.959 %	100.189 %	97.791 %
Concentration RSD	0.8 %	0.3 %	0.9 %	1.4 %	1.1 %	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	0.4795 ppm	0.5026 ppm	0.4867 ppm	0.4947 ppm	0.5137 ppm	5.1432 ppm	0.4990 ppm
Concentration per Run 1	0.4856 ppm	0.5085 ppm	0.4912 ppm	0.4982 ppm	0.5157 ppm	5.1560 ppm	0.5003 ppm
Concentration per Run 2	0.4793 ppm	0.5014 ppm	0.4868 ppm	0.4955 ppm	0.5115 ppm	5.0901 ppm	0.4873 ppm
Concentration per Run 3	0.4736 ppm	0.4978 ppm	0.4821 ppm	0.4905 ppm	0.5139 ppm	5.1836 ppm	0.5095 ppm
Recovery Percentage 1	95.897 %	100.514 %	97.340 %	98.948 %	102.741 %	102.865 %	99.808 %
Concentration RSD	1.3 %	1.1 %	0.9 %	0.8 %	0.4 %	0.9 %	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	0.4950 ppm	0.4803 ppm	0.4977 ppm	9.9713 ppm	0.5015 ppm	0.4823 ppm	0.4954 ppm
Concentration per Run 1	0.5011 ppm	0.4798 ppm	0.4980 ppm	9.9929 ppm	0.5071 ppm	0.4834 ppm	0.5033 ppm
Concentration per Run 2	0.4949 ppm	0.4796 ppm	0.4965 ppm	9.8102 ppm	0.5007 ppm	0.4833 ppm	0.4963 ppm
Concentration per Run 3	0.4888 ppm	0.4815 ppm	0.4984 ppm	10.1110 ppm	0.4967 ppm	0.4803 ppm	0.4865 ppm
Recovery Percentage 1	98.991 %	96.060 %	99.532 %	99.713 %	100.305 %	96.464 %	99.076 %
Concentration RSD	1.2 %	0.2 %	0.2 %	1.5 %	1.0 %	0.4 %	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	0.4617 ppm	5.5322 ppm	0.5097 ppm	0.5189 ppm	0.4927 ppm	0.4835 ppm	0.4868 ppm
Concentration per Run 1	0.4639 ppm	5.5833 ppm	0.5154 ppm	0.5203 ppm	0.4950 ppm	0.4866 ppm	0.4896 ppm
Concentration per Run 2	0.4619 ppm	5.5381 ppm	0.5111 ppm	0.5118 ppm	0.4962 ppm	0.4850 ppm	0.4876 ppm
Concentration per Run 3	0.4591 ppm	5.4752 ppm	0.5024 ppm	0.5245 ppm	0.4868 ppm	0.4790 ppm	0.4831 ppm
Recovery Percentage 1	92.332 %	105.375 %	101.932 %	103.772 %	98.538 %	96.705 %	97.359 %
Concentration RSD	0.5 %	1.0 %	1.3 %	1.3 %	1.0 %	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	0.4881 ppm	104.6525 %	104.1360 %	96.4931 %	91.4958 %	99.0554 %	93.4017 %
Concentration per Run 1	0.4941 ppm	103.6200 %	103.9838 %	96.0528 %	91.0036 %	98.8882 %	93.1815 %
Concentration per Run 2	0.4884 ppm	104.6482 %	104.0741 %	96.5122 %	91.4447 %	98.4665 %	93.5618 %
Concentration per Run 3	0.4819 ppm	105.6893 %	104.3499 %	96.9142 %	92.0392 %	99.8115 %	93.4618 %
Recovery Percentage 1	97.629 %						
Concentration RSD	1.3 %	1.0 %	0.2 %	0.4 %	0.6 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: CCB
Analysis started at: 12/20/2024 5:16:27 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	-0.0001 ppm	0.0017 ppm	0.0010 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0009 ppm
Concentration per Run 1	-0.0003 ppm	0.0025 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 2	0.0001 ppm	-0.0011 ppm	0.0009 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0012 ppm
Concentration per Run 3	-0.0001 ppm	0.0036 ppm	0.0019 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0007 ppm
Recovery Percentage 1	-1.610 %	1.677 %	19.300 %	0.413 %	1.353 %	0.324 %	-0.863 %
Concentration RSD	236.1 %	145.5 %	92.3 %	46.4 %	16.8 %	20.2 %	29.7 %

	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	-0.0005 ppm	-0.0002 ppm	0.0005 ppm	0.0011 ppm	0.0140 ppm	0.0003 ppm
Concentration per Run 1	0.0001 ppm	-0.0006 ppm	-0.0002 ppm	0.0006 ppm	0.0014 ppm	0.0109 ppm	0.0010 ppm
Concentration per Run 2	0.0001 ppm	-0.0005 ppm	-0.0001 ppm	0.0003 ppm	0.0014 ppm	0.0162 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	-0.0005 ppm	-0.0003 ppm	0.0006 ppm	0.0003 ppm	0.0148 ppm	-0.0003 ppm
Recovery Percentage 1	1.903 %	-5.145 %	-1.861 %	5.151 %	2.100 %	0.559 %	3.017 %
Concentration RSD	78.5 %	14.4 %	64.6 %	31.7 %	58.7 %	19.5 %	210.3 %

	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	-0.0009 ppm	0.0001 ppm	0.0023 ppm	-0.0172 ppm	-0.0004 ppm	0.0000 ppm	0.0018 ppm
Concentration per Run 1	-0.0001 ppm	0.0002 ppm	0.0024 ppm	-0.0177 ppm	-0.0001 ppm	0.0001 ppm	0.0017 ppm
Concentration per Run 2	-0.0011 ppm	0.0001 ppm	0.0024 ppm	-0.0164 ppm	-0.0004 ppm	0.0000 ppm	0.0020 ppm
Concentration per Run 3	-0.0014 ppm	0.0001 ppm	0.0023 ppm	-0.0173 ppm	-0.0008 ppm	0.0000 ppm	0.0018 ppm
Recovery Percentage 1	-0.860 %	1.161 %	4.696 %	-0.858 %	-1.691 %	0.075 %	3.661 %
Concentration RSD	79.0 %	45.3 %	0.9 %	3.8 %	82.9 %	852.8 %	10.0 %

	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	-0.0030 ppm	0.0047 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 1	-0.0026 ppm	0.0055 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0002 ppm
Concentration per Run 2	-0.0021 ppm	0.0053 ppm	-0.0008 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 3	-0.0041 ppm	0.0034 ppm	0.0005 ppm	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0001 ppm
Recovery Percentage 1	-29.538 %	0.948 %	-0.026 %	-0.037 %	-0.553 %	1.119 %	1.478 %
Concentration RSD	36.1 %	25.3 %	5,374.2 %	926.5 %	112.3 %	141.8 %	15.8 %

	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	100.0107 %	102.3280 %	97.2625 %	93.6271 %	100.5545 %	95.6651 %
Concentration per Run 1	0.0002 ppm	99.0179 %	101.9105 %	97.2363 %	94.1096 %	100.4750 %	96.3435 %
Concentration per Run 2	0.0001 ppm	100.7753 %	102.6329 %	96.4715 %	94.4697 %	100.6579 %	94.8680 %
Concentration per Run 3	0.0002 ppm	100.2387 %	102.4407 %	98.0797 %	92.3021 %	100.5306 %	95.7839 %
Recovery Percentage 1	3.126 %						
Concentration RSD	12.3 %	0.9 %	0.4 %	0.8 %	1.2 %	0.1 %	0.8 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473637-01d2 WG2011408
Analysis started at: 12/20/2024 5:27:12 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	0.0033 ppm	93.6363 ppm	0.0847 ppm	0.0281 ppm	1.1557 ppm	0.0047 ppm	177.2981 ppm
Concentration per Run 1	0.0030 ppm	93.5581 ppm	0.0845 ppm	0.0271 ppm	1.1553 ppm	0.0046 ppm	176.8781 ppm
Concentration per Run 2	0.0032 ppm	93.7343 ppm	0.0850 ppm	0.0288 ppm	1.1567 ppm	0.0047 ppm	176.7963 ppm
Concentration per Run 3	0.0036 ppm	93.6166 ppm	0.0846 ppm	0.0286 ppm	1.1553 ppm	0.0047 ppm	178.2198 ppm
Concentration RSD	9.0 %	0.1 %	0.4 %	3.3 %	0.1 %	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	0.0048 ppm	0.0603 ppm	0.2026 ppm	0.4896 ppm	155.7634 ppm	12.8259 ppm	0.1490 ppm
Concentration per Run 1	0.0047 ppm	0.0596 ppm	0.2004 ppm	0.4828 ppm	155.3593 ppm	12.8087 ppm	0.1504 ppm
Concentration per Run 2	0.0047 ppm	0.0602 ppm	0.2033 ppm	0.4907 ppm	155.5339 ppm	12.8353 ppm	0.1494 ppm
Concentration per Run 3	0.0050 ppm	0.0612 ppm	0.2040 ppm	0.4954 ppm	156.3969 ppm	12.8335 ppm	0.1472 ppm
Concentration RSD	3.5 %	1.3 %	0.9 %	1.3 %	0.4 %	0.1 %	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	37.8871 ppm	3.0725 ppm	0.0064 ppm	17.5834 ppm	0.1522 ppm	4.4887 ppm	0.0118 ppm
Concentration per Run 1	37.5373 ppm	3.0664 ppm	0.0062 ppm	17.5380 ppm	0.1506 ppm	4.4820 ppm	0.0126 ppm
Concentration per Run 2	37.9810 ppm	3.0669 ppm	0.0066 ppm	17.6951 ppm	0.1530 ppm	4.4705 ppm	0.0107 ppm
Concentration per Run 3	38.1429 ppm	3.0841 ppm	0.0063 ppm	17.5172 ppm	0.1530 ppm	4.5135 ppm	0.0122 ppm
Concentration RSD	0.8 %	0.3 %	3.1 %	0.6 %	0.9 %	0.5 %	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	0.0006 ppm	12.4998 ppm	0.0909 ppm	0.5958 ppm	3.9105 ppm	0.0023 ppm	0.2659 ppm
Concentration per Run 1	0.0025 ppm	12.4312 ppm	0.0908 ppm	0.5957 ppm	3.8647 ppm	0.0017 ppm	0.2636 ppm
Concentration per Run 2	-0.0023 ppm	12.5253 ppm	0.0915 ppm	0.5977 ppm	3.9227 ppm	0.0025 ppm	0.2674 ppm
Concentration per Run 3	0.0017 ppm	12.5429 ppm	0.0903 ppm	0.5941 ppm	3.9440 ppm	0.0028 ppm	0.2668 ppm
Concentration RSD	408.9 %	0.5 %	0.7 %	0.3 %	1.0 %	23.2 %	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	1.7065 ppm	108.7378 %	106.7655 %	79.5366 %	106.5816 %	121.7777 %	108.0596 %
Concentration per Run 1	1.6935 ppm	109.8636 %	107.1270 %	80.0896 %	107.1864 %	122.1061 %	108.6918 %
Concentration per Run 2	1.7161 ppm	108.4974 %	107.2771 %	79.6777 %	106.7089 %	122.3113 %	108.0418 %
Concentration per Run 3	1.7101 ppm	107.8525 %	105.8925 %	78.8424 %	105.8496 %	120.9156 %	107.4451 %
Concentration RSD	0.7 %	0.9 %	0.7 %	0.8 %	0.6 %	0.6 %	0.6 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: CCV
Analysis started at: 12/20/2024 5:31:55 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	0.4895 ppm	0.4823 ppm	0.4539 ppm	0.4831 ppm	0.4925 ppm	0.4988 ppm	0.4929 ppm
Concentration per Run 1	0.4940 ppm	0.4846 ppm	0.4551 ppm	0.4874 ppm	0.4907 ppm	0.4995 ppm	0.4919 ppm
Concentration per Run 2	0.4875 ppm	0.4774 ppm	0.4525 ppm	0.4828 ppm	0.4921 ppm	0.4978 ppm	0.4926 ppm
Concentration per Run 3	0.4871 ppm	0.4850 ppm	0.4540 ppm	0.4792 ppm	0.4948 ppm	0.4991 ppm	0.4942 ppm
Recovery Percentage 1	97.907 %	96.459 %	90.777 %	96.630 %	98.509 %	99.755 %	98.582 %
Concentration RSD	0.8 %	0.9 %	0.3 %	0.9 %	0.4 %	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	0.4769 ppm	0.5006 ppm	0.4851 ppm	0.4955 ppm	0.5145 ppm	5.1562 ppm	0.4981 ppm
Concentration per Run 1	0.4824 ppm	0.5058 ppm	0.4901 ppm	0.5009 ppm	0.5183 ppm	5.2055 ppm	0.5046 ppm
Concentration per Run 2	0.4766 ppm	0.5004 ppm	0.4826 ppm	0.4937 ppm	0.5131 ppm	5.1304 ppm	0.4929 ppm
Concentration per Run 3	0.4718 ppm	0.4957 ppm	0.4826 ppm	0.4919 ppm	0.5121 ppm	5.1328 ppm	0.4967 ppm
Recovery Percentage 1	95.385 %	100.125 %	97.018 %	99.097 %	102.904 %	103.124 %	99.614 %
Concentration RSD	1.1 %	1.0 %	0.9 %	1.0 %	0.6 %	0.8 %	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	0.4946 ppm	0.4789 ppm	0.4955 ppm	9.9857 ppm	0.5007 ppm	0.4815 ppm	0.4945 ppm
Concentration per Run 1	0.5002 ppm	0.4802 ppm	0.4966 ppm	9.9691 ppm	0.5059 ppm	0.4828 ppm	0.4978 ppm
Concentration per Run 2	0.4928 ppm	0.4785 ppm	0.4954 ppm	9.9704 ppm	0.4983 ppm	0.4786 ppm	0.4955 ppm
Concentration per Run 3	0.4907 ppm	0.4780 ppm	0.4946 ppm	10.0177 ppm	0.4980 ppm	0.4831 ppm	0.4903 ppm
Recovery Percentage 1	98.911 %	95.777 %	99.105 %	99.857 %	100.150 %	96.294 %	98.906 %
Concentration RSD	1.0 %	0.2 %	0.2 %	0.3 %	0.9 %	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	0.4600 ppm	5.5124 ppm	0.5076 ppm	0.5166 ppm	0.4912 ppm	0.4809 ppm	0.4864 ppm
Concentration per Run 1	0.4648 ppm	5.5661 ppm	0.5168 ppm	0.5165 ppm	0.4966 ppm	0.4839 ppm	0.4911 ppm
Concentration per Run 2	0.4554 ppm	5.4846 ppm	0.5026 ppm	0.5166 ppm	0.4894 ppm	0.4757 ppm	0.4851 ppm
Concentration per Run 3	0.4597 ppm	5.4864 ppm	0.5035 ppm	0.5168 ppm	0.4877 ppm	0.4833 ppm	0.4829 ppm
Recovery Percentage 1	91.993 %	104.998 %	101.525 %	103.324 %	98.241 %	96.187 %	97.271 %
Concentration RSD	1.0 %	0.8 %	1.6 %	0.0 %	1.0 %	0.9 %	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	0.4876 ppm	105.2783 %	104.6101 %	97.0383 %	92.0569 %	99.4174 %	93.8588 %
Concentration per Run 1	0.4929 ppm	104.4140 %	104.1242 %	95.6273 %	92.0962 %	99.4476 %	93.2037 %
Concentration per Run 2	0.4860 ppm	105.4522 %	104.6970 %	98.0538 %	92.0782 %	99.1390 %	94.4011 %
Concentration per Run 3	0.4838 ppm	105.9688 %	105.0091 %	97.4338 %	91.9964 %	99.6656 %	93.9714 %
Recovery Percentage 1	97.519 %						
Concentration RSD	1.0 %	0.8 %	0.4 %	1.3 %	0.1 %	0.3 %	0.6 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: CCB
Analysis started at: 12/20/2024 5:36:20 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	0.0039 ppm	0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0046 ppm	0.0005 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 2	-0.0002 ppm	0.0036 ppm	-0.0005 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0016 ppm
Concentration per Run 3	0.0002 ppm	0.0036 ppm	0.0003 ppm	-0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0015 ppm
Recovery Percentage 1	-0.093 %	3.932 %	1.841 %	-0.524 %	0.869 %	0.258 %	0.067 %
Concentration RSD	4,888.1 %	15.1 %	574.5 %	364.5 %	12.8 %	79.3 %	2,388.0 %

	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	-0.0003 ppm	0.0000 ppm	0.0005 ppm	0.0016 ppm	0.0127 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0006 ppm	0.0012 ppm	-0.0009 ppm	0.0002 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	0.0003 ppm	0.0017 ppm	0.0224 ppm	-0.0003 ppm
Concentration per Run 3	0.0000 ppm	-0.0006 ppm	0.0000 ppm	0.0006 ppm	0.0020 ppm	0.0165 ppm	0.0001 ppm
Recovery Percentage 1	0.753 %	-3.108 %	-0.434 %	4.813 %	3.259 %	0.506 %	0.027 %
Concentration RSD	30.2 %	88.2 %	531.0 %	31.9 %	24.4 %	95.9 %	10,294.0 %

	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	0.0022 ppm	-0.0159 ppm	0.0002 ppm	-0.0003 ppm	0.0007 ppm
Concentration per Run 1	-0.0015 ppm	-0.0001 ppm	0.0023 ppm	-0.0164 ppm	0.0002 ppm	-0.0004 ppm	-0.0002 ppm
Concentration per Run 2	-0.0008 ppm	0.0000 ppm	0.0022 ppm	-0.0145 ppm	0.0001 ppm	-0.0006 ppm	0.0007 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0023 ppm	-0.0169 ppm	0.0001 ppm	0.0001 ppm	0.0017 ppm
Recovery Percentage 1	-0.742 %	-0.134 %	4.490 %	-0.797 %	0.648 %	-2.829 %	1.422 %
Concentration RSD	109.1 %	937.4 %	1.7 %	8.2 %	25.2 %	120.4 %	135.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	0.0038 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 1	-0.0021 ppm	0.0056 ppm	-0.0008 ppm	0.0000 ppm	-0.0001 ppm	-0.0008 ppm	0.0000 ppm
Concentration per Run 2	-0.0009 ppm	0.0044 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 3	-0.0012 ppm	0.0013 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Recovery Percentage 1	-13.963 %	0.752 %	0.179 %	0.387 %	-0.264 %	-0.568 %	-0.054 %
Concentration RSD	45.5 %	59.9 %	869.0 %	47.1 %	415.7 %	558.0 %	741.9 %

	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	99.6886 %	102.1399 %	97.1382 %	93.8910 %	100.4947 %	95.6713 %
Concentration per Run 1	0.0001 ppm	97.9388 %	102.3317 %	97.2716 %	93.1937 %	100.6909 %	96.2252 %
Concentration per Run 2	0.0002 ppm	100.3400 %	102.1693 %	96.5262 %	94.6030 %	100.4625 %	95.1841 %
Concentration per Run 3	0.0000 ppm	100.7869 %	101.9187 %	97.6167 %	93.8764 %	100.3307 %	95.6046 %
Recovery Percentage 1	2.484 %						
Concentration RSD	73.5 %	1.5 %	0.2 %	0.6 %	0.8 %	0.2 %	0.5 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: WG2011473-2 WG2011473
Analysis started at: 12/20/2024 5:44:02 PM
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	2.0484 ppm	0.1096 ppm	0.8878 ppm	1.9695 ppm	0.0490 ppm	9.5995 ppm
Concentration per Run 1	0.0478 ppm	2.0512 ppm	0.1095 ppm	0.8831 ppm	1.9813 ppm	0.0490 ppm	9.5438 ppm
Concentration per Run 2	0.0485 ppm	2.0387 ppm	0.1091 ppm	0.8873 ppm	1.9631 ppm	0.0490 ppm	9.5588 ppm
Concentration per Run 3	0.0485 ppm	2.0554 ppm	0.1103 ppm	0.8930 ppm	1.9643 ppm	0.0490 ppm	9.6958 ppm
Concentration RSD	0.8 %	0.4 %	0.6 %	0.6 %	0.5 %	0.0 %	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	0.0472 ppm	0.4630 ppm	0.1841 ppm	0.2458 ppm	0.9719 ppm	10.4710 ppm	0.0001 ppm
Concentration per Run 1	0.0475 ppm	0.4627 ppm	0.1839 ppm	0.2436 ppm	0.9716 ppm	10.5822 ppm	0.0003 ppm
Concentration per Run 2	0.0467 ppm	0.4613 ppm	0.1832 ppm	0.2471 ppm	0.9717 ppm	10.4371 ppm	0.0004 ppm
Concentration per Run 3	0.0472 ppm	0.4652 ppm	0.1850 ppm	0.2466 ppm	0.9725 ppm	10.3937 ppm	-0.0004 ppm
Concentration RSD	0.8 %	0.4 %	0.5 %	0.8 %	0.0 %	0.9 %	367.6 %

	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	9.3407 ppm	0.4770 ppm	0.8178 ppm	10.3319 ppm	0.4538 ppm	0.5046 ppm	0.3925 ppm
Concentration per Run 1	9.3284 ppm	0.4758 ppm	0.8083 ppm	10.4175 ppm	0.4553 ppm	0.5029 ppm	0.3849 ppm
Concentration per Run 2	9.3343 ppm	0.4767 ppm	0.8141 ppm	10.2621 ppm	0.4500 ppm	0.5039 ppm	0.3921 ppm
Concentration per Run 3	9.3595 ppm	0.4786 ppm	0.8309 ppm	10.3161 ppm	0.4563 ppm	0.5070 ppm	0.4005 ppm
Concentration RSD	0.2 %	0.3 %	1.4 %	0.8 %	0.7 %	0.4 %	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	0.1094 ppm	0.8820 ppm	0.8950 ppm	0.9656 ppm	0.9183 ppm	0.1170 ppm	0.4689 ppm
Concentration per Run 1	0.1092 ppm	0.8781 ppm	0.8947 ppm	0.9700 ppm	0.9158 ppm	0.1158 ppm	0.4679 ppm
Concentration per Run 2	0.1100 ppm	0.8821 ppm	0.8875 ppm	0.9608 ppm	0.9153 ppm	0.1171 ppm	0.4697 ppm
Concentration per Run 3	0.1090 ppm	0.8860 ppm	0.9027 ppm	0.9661 ppm	0.9236 ppm	0.1182 ppm	0.4691 ppm
Concentration RSD	0.5 %	0.4 %	0.9 %	0.5 %	0.5 %	1.0 %	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	0.4429 ppm	114.0966 %	106.6642 %	102.2302 %	93.4815 %	99.5309 %	94.2261 %
Concentration per Run 1	0.4469 ppm	114.5857 %	107.1121 %	102.1465 %	93.8111 %	100.1166 %	93.9167 %
Concentration per Run 2	0.4380 ppm	113.9925 %	106.9651 %	102.5597 %	93.2237 %	99.7350 %	94.4155 %
Concentration per Run 3	0.4438 ppm	113.7117 %	105.9154 %	101.9845 %	93.4099 %	98.7410 %	94.3462 %
Concentration RSD	1.0 %	0.4 %	0.6 %	0.3 %	0.3 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2472821-02 WG2011473
Analysis started at: 12/20/2024 5:48:47 PM
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	0.0004 ppm	0.0401 ppm	0.0500 ppm	0.3120 ppm	1.3215 ppm	0.0000 ppm	174.2813 ppm
Concentration per Run 1	0.0005 ppm	0.0430 ppm	0.0488 ppm	0.3158 ppm	1.3168 ppm	0.0000 ppm	174.6235 ppm
Concentration per Run 2	0.0003 ppm	0.0353 ppm	0.0505 ppm	0.3108 ppm	1.3220 ppm	0.0000 ppm	172.7620 ppm
Concentration per Run 3	0.0004 ppm	0.0419 ppm	0.0505 ppm	0.3093 ppm	1.3257 ppm	0.0000 ppm	175.4583 ppm
Concentration RSD	23.7 %	10.3 %	2.0 %	1.1 %	0.3 %	22.8 %	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	-0.0009 ppm	-0.0003 ppm	0.0001 ppm	0.0024 ppm	45.4804 ppm	4.9416 ppm	0.0172 ppm
Concentration per Run 1	-0.0009 ppm	-0.0002 ppm	0.0001 ppm	0.0026 ppm	45.4771 ppm	4.9384 ppm	0.0177 ppm
Concentration per Run 2	-0.0007 ppm	0.0001 ppm	0.0002 ppm	0.0023 ppm	45.1132 ppm	4.9940 ppm	0.0169 ppm
Concentration per Run 3	-0.0009 ppm	-0.0007 ppm	0.0000 ppm	0.0024 ppm	45.8510 ppm	4.8922 ppm	0.0170 ppm
Concentration RSD	11.8 %	138.1 %	138.1 %	6.2 %	0.8 %	1.0 %	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	54.2449 ppm	1.5179 ppm	0.0043 ppm	23.8378 ppm	0.0009 ppm	0.0107 ppm	0.0061 ppm
Concentration per Run 1	55.0957 ppm	1.5188 ppm	0.0045 ppm	23.7189 ppm	0.0008 ppm	0.0099 ppm	0.0046 ppm
Concentration per Run 2	54.1282 ppm	1.5064 ppm	0.0044 ppm	24.1030 ppm	0.0007 ppm	0.0106 ppm	0.0065 ppm
Concentration per Run 3	53.5106 ppm	1.5284 ppm	0.0040 ppm	23.6914 ppm	0.0012 ppm	0.0116 ppm	0.0071 ppm
Concentration RSD	1.5 %	0.7 %	5.6 %	1.0 %	29.5 %	8.4 %	22.1 %

	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	16.5326 ppm	0.0031 ppm	0.4035 ppm	0.0018 ppm	-0.0019 ppm	0.0003 ppm
Concentration per Run 1	-0.0003 ppm	16.7155 ppm	0.0030 ppm	0.4028 ppm	0.0032 ppm	-0.0015 ppm	0.0002 ppm
Concentration per Run 2	0.0004 ppm	16.5053 ppm	0.0021 ppm	0.4028 ppm	0.0011 ppm	-0.0026 ppm	0.0004 ppm
Concentration per Run 3	0.0013 ppm	16.3770 ppm	0.0040 ppm	0.4048 ppm	0.0011 ppm	-0.0015 ppm	0.0004 ppm
Concentration RSD	179.6 %	1.0 %	32.0 %	0.3 %	67.6 %	33.7 %	28.5 %

	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	94.9773 %	101.6282 %	80.1976 %	85.3948 %	97.7606 %	85.1803 %
Concentration per Run 1	-0.0001 ppm	93.8332 %	101.8137 %	79.9813 %	85.1097 %	97.9479 %	85.4959 %
Concentration per Run 2	0.0000 ppm	94.9895 %	102.2342 %	79.9940 %	85.3276 %	98.0169 %	84.9351 %
Concentration per Run 3	-0.0001 ppm	96.1094 %	100.8366 %	80.6177 %	85.7470 %	97.3168 %	85.1099 %
Concentration RSD	99.1 %	1.2 %	0.7 %	0.5 %	0.4 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2472872-01 WG2011473
Analysis started at: 12/20/2024 5:53:10 PM
Rack 1
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	1.9016 ppm	0.0097 ppm	0.0136 ppm	0.0167 ppm	0.0001 ppm	0.9771 ppm
Concentration per Run 1	-0.0002 ppm	1.9062 ppm	0.0108 ppm	0.0136 ppm	0.0168 ppm	0.0001 ppm	0.9799 ppm
Concentration per Run 2	-0.0002 ppm	1.8986 ppm	0.0099 ppm	0.0137 ppm	0.0166 ppm	0.0001 ppm	0.9793 ppm
Concentration per Run 3	0.0000 ppm	1.8999 ppm	0.0084 ppm	0.0136 ppm	0.0168 ppm	0.0001 ppm	0.9721 ppm
Concentration RSD	102.8 %	0.2 %	12.3 %	0.6 %	0.7 %	21.3 %	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	0.0004 ppm	0.0030 ppm	0.0033 ppm	0.0088 ppm	2.9128 ppm	0.6673 ppm	0.0087 ppm
Concentration per Run 1	0.0004 ppm	0.0029 ppm	0.0037 ppm	0.0089 ppm	2.9249 ppm	0.6797 ppm	0.0087 ppm
Concentration per Run 2	0.0004 ppm	0.0030 ppm	0.0031 ppm	0.0090 ppm	2.8992 ppm	0.6565 ppm	0.0088 ppm
Concentration per Run 3	0.0005 ppm	0.0031 ppm	0.0031 ppm	0.0087 ppm	2.9142 ppm	0.6658 ppm	0.0086 ppm
Concentration RSD	20.2 %	3.6 %	10.3 %	1.3 %	0.4 %	1.8 %	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	2.1000 ppm	0.0622 ppm	0.0013 ppm	83.4240 ppm	0.0029 ppm	0.0045 ppm	0.0014 ppm
Concentration per Run 1	2.1227 ppm	0.0626 ppm	0.0013 ppm	83.4004 ppm	0.0023 ppm	0.0047 ppm	0.0010 ppm
Concentration per Run 2	2.1047 ppm	0.0623 ppm	0.0012 ppm	83.4723 ppm	0.0029 ppm	0.0043 ppm	0.0018 ppm
Concentration per Run 3	2.0726 ppm	0.0616 ppm	0.0014 ppm	83.3992 ppm	0.0034 ppm	0.0044 ppm	0.0015 ppm
Concentration RSD	1.2 %	0.8 %	8.2 %	0.1 %	19.2 %	4.7 %	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	-0.0028 ppm	3.5430 ppm	0.0009 ppm	0.0082 ppm	0.1315 ppm	0.0001 ppm	0.0074 ppm
Concentration per Run 1	-0.0037 ppm	3.5871 ppm	0.0010 ppm	0.0083 ppm	0.1330 ppm	-0.0002 ppm	0.0074 ppm
Concentration per Run 2	-0.0030 ppm	3.5306 ppm	0.0012 ppm	0.0081 ppm	0.1320 ppm	0.0001 ppm	0.0074 ppm
Concentration per Run 3	-0.0017 ppm	3.5113 ppm	0.0005 ppm	0.0083 ppm	0.1295 ppm	0.0003 ppm	0.0073 ppm
Concentration RSD	35.9 %	1.1 %	38.6 %	1.0 %	1.4 %	416.8 %	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	0.0629 ppm	94.9797 %	100.7934 %	87.1734 %	89.7773 %	99.4636 %	91.6900 %
Concentration per Run 1	0.0637 ppm	94.2974 %	100.4239 %	86.1729 %	90.4311 %	99.4654 %	91.3764 %
Concentration per Run 2	0.0626 ppm	94.7862 %	101.0199 %	87.4026 %	89.6497 %	99.6544 %	91.9019 %
Concentration per Run 3	0.0624 ppm	95.8555 %	100.9365 %	87.9446 %	89.2511 %	99.2710 %	91.7918 %
Concentration RSD	1.1 %	0.8 %	0.3 %	1.0 %	0.7 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473485-01d2 WG2011483
Analysis started at: 12/20/2024 5:57:35 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	0.0008 ppm	48.9766 ppm	0.0158 ppm	0.0815 ppm	0.3539 ppm	0.0020 ppm	661.0274 ppm
Concentration per Run 1	0.0009 ppm	49.1762 ppm	0.0155 ppm	0.0814 ppm	0.3565 ppm	0.0019 ppm	662.8384 ppm
Concentration per Run 2	0.0007 ppm	48.8235 ppm	0.0167 ppm	0.0807 ppm	0.3509 ppm	0.0020 ppm	661.5124 ppm
Concentration per Run 3	0.0007 ppm	48.9300 ppm	0.0152 ppm	0.0824 ppm	0.3544 ppm	0.0020 ppm	658.7315 ppm
Concentration RSD	15.0 %	0.4 %	4.9 %	1.1 %	0.8 %	1.8 %	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	-0.0034 ppm	0.0138 ppm	0.0796 ppm	0.0359 ppm	74.0485 ppm	12.1917 ppm	0.0514 ppm
Concentration per Run 1	-0.0034 ppm	0.0139 ppm	0.0805 ppm	0.0361 ppm	74.4796 ppm	12.2849 ppm	0.0510 ppm
Concentration per Run 2	-0.0035 ppm	0.0133 ppm	0.0783 ppm	0.0357 ppm	73.8134 ppm	12.0817 ppm	0.0525 ppm
Concentration per Run 3	-0.0034 ppm	0.0140 ppm	0.0801 ppm	0.0360 ppm	73.8526 ppm	12.2084 ppm	0.0506 ppm
Concentration RSD	2.3 %	2.7 %	1.5 %	0.6 %	0.5 %	0.8 %	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	135.5225 ppm	1.2590 ppm	0.0031 ppm	7.3621 ppm	0.0286 ppm	0.0217 ppm	0.0032 ppm
Concentration per Run 1	136.5874 ppm	1.2682 ppm	0.0031 ppm	7.4145 ppm	0.0295 ppm	0.0222 ppm	0.0023 ppm
Concentration per Run 2	134.2325 ppm	1.2535 ppm	0.0030 ppm	7.2958 ppm	0.0286 ppm	0.0229 ppm	0.0034 ppm
Concentration per Run 3	135.7477 ppm	1.2552 ppm	0.0031 ppm	7.3761 ppm	0.0277 ppm	0.0201 ppm	0.0039 ppm
Concentration RSD	0.9 %	0.6 %	1.2 %	0.8 %	3.1 %	6.7 %	25.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0019 ppm	14.9740 ppm	0.0066 ppm	2.5828 ppm	2.4491 ppm	0.0010 ppm	0.0762 ppm
Concentration per Run 1	-0.0027 ppm	15.3113 ppm	0.0077 ppm	2.5966 ppm	2.4746 ppm	0.0006 ppm	0.0774 ppm
Concentration per Run 2	-0.0002 ppm	14.8425 ppm	0.0063 ppm	2.5661 ppm	2.4235 ppm	0.0033 ppm	0.0755 ppm
Concentration per Run 3	-0.0028 ppm	14.7682 ppm	0.0059 ppm	2.5855 ppm	2.4493 ppm	-0.0009 ppm	0.0756 ppm
Concentration RSD	79.2 %	2.0 %	14.6 %	0.6 %	1.0 %	206.1 %	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	0.1260 ppm	90.2924 %	99.2670 %	69.7723 %	85.8586 %	103.9286 %	88.5441 %
Concentration per Run 1	0.1278 ppm	89.7447 %	98.7675 %	69.9845 %	86.0019 %	103.8274 %	88.9497 %
Concentration per Run 2	0.1242 ppm	91.3231 %	99.4925 %	69.7490 %	87.0298 %	104.1041 %	88.1673 %
Concentration per Run 3	0.1260 ppm	89.8095 %	99.5410 %	69.5833 %	84.5441 %	103.8544 %	88.5152 %
Concentration RSD	1.4 %	1.0 %	0.4 %	0.3 %	1.5 %	0.1 %	0.4 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473485-02d2 WG2011483
Analysis started at: 12/20/2024 6:02:02 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	0.0008 ppm	242.6587 ppm	0.0197 ppm	0.2669 ppm	1.6793 ppm	0.0265 ppm	950.6696 ppm
Concentration per Run 1	0.0009 ppm	242.5761 ppm	0.0195 ppm	0.2701 ppm	1.6861 ppm	0.0266 ppm	954.4278 ppm
Concentration per Run 2	0.0009 ppm	243.0527 ppm	0.0216 ppm	0.2663 ppm	1.6821 ppm	0.0264 ppm	946.4834 ppm
Concentration per Run 3	0.0008 ppm	242.3473 ppm	0.0178 ppm	0.2643 ppm	1.6697 ppm	0.0264 ppm	951.0974 ppm
Concentration RSD	7.7 %	0.1 %	9.8 %	1.1 %	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	-0.0057 ppm	0.0071 ppm	0.1520 ppm	0.0348 ppm	71.8795 ppm	18.7654 ppm	0.2045 ppm
Concentration per Run 1	-0.0059 ppm	0.0075 ppm	0.1539 ppm	0.0353 ppm	72.0477 ppm	18.8179 ppm	0.2028 ppm
Concentration per Run 2	-0.0056 ppm	0.0071 ppm	0.1518 ppm	0.0347 ppm	71.8243 ppm	18.8372 ppm	0.2039 ppm
Concentration per Run 3	-0.0056 ppm	0.0068 ppm	0.1503 ppm	0.0345 ppm	71.7665 ppm	18.6412 ppm	0.2067 ppm
Concentration RSD	2.8 %	4.7 %	1.2 %	1.3 %	0.2 %	0.6 %	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	292.9844 ppm	5.6551 ppm	0.0021 ppm	7.6806 ppm	0.0270 ppm	0.0100 ppm	-0.0017 ppm
Concentration per Run 1	296.0430 ppm	5.6579 ppm	0.0021 ppm	7.6693 ppm	0.0273 ppm	0.0108 ppm	-0.0033 ppm
Concentration per Run 2	293.2401 ppm	5.6515 ppm	0.0017 ppm	7.7471 ppm	0.0270 ppm	0.0096 ppm	-0.0004 ppm
Concentration per Run 3	289.6700 ppm	5.6558 ppm	0.0024 ppm	7.6255 ppm	0.0266 ppm	0.0097 ppm	-0.0014 ppm
Concentration RSD	1.1 %	0.1 %	15.6 %	0.8 %	1.3 %	6.5 %	88.9 %

	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	0.0132 ppm	5.7029 ppm	0.0042 ppm	3.7045 ppm	6.5853 ppm	0.0011 ppm	0.0811 ppm
Concentration per Run 1	0.0137 ppm	5.7712 ppm	0.0044 ppm	3.7176 ppm	6.6575 ppm	0.0000 ppm	0.0820 ppm
Concentration per Run 2	0.0144 ppm	5.6982 ppm	0.0039 ppm	3.7114 ppm	6.5696 ppm	0.0005 ppm	0.0809 ppm
Concentration per Run 3	0.0116 ppm	5.6392 ppm	0.0043 ppm	3.6846 ppm	6.5288 ppm	0.0027 ppm	0.0805 ppm
Concentration RSD	11.1 %	1.2 %	6.4 %	0.5 %	1.0 %	131.2 %	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	0.0847 ppm	98.5033 %	111.5195 %	68.4701 %	125.9051 %	**158.1454 %**	131.2462 %
Concentration per Run 1	0.0860 ppm	97.4127 %	111.1091 %	68.2918 %	125.4193 %	**157.4884 %**	131.5295 %
Concentration per Run 2	0.0847 ppm	98.9574 %	111.8945 %	68.3335 %	126.5140 %	**158.6189 %**	131.0075 %
Concentration per Run 3	0.0836 ppm	99.1397 %	111.5550 %	68.7849 %	125.7821 %	**158.3288 %**	131.2018 %
Concentration RSD	1.4 %	1.0 %	0.4 %	0.4 %	0.4 %	**0.4 %**	0.2 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: xL2473485-03d2 WG2011483
Analysis started at: 12/20/2024 6:06:27 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	-0.0001 ppm	46.4711 ppm	0.0355 ppm	0.0739 ppm	0.3712 ppm	0.0046 ppm	1,768.3184 [SIC 1000]
Concentration per Run 1	0.0000 ppm	46.4302 ppm	0.0378 ppm	0.0755 ppm	0.3710 ppm	0.0046 ppm	1,767.3717 ppm
Concentration per Run 2	-0.0001 ppm	46.5945 ppm	0.0330 ppm	0.0737 ppm	0.3730 ppm	0.0046 ppm	1,761.4783 ppm
Concentration per Run 3	-0.0001 ppm	46.3887 ppm	0.0357 ppm	0.0726 ppm	0.3696 ppm	0.0046 ppm	1,776.1051 ppm
Concentration RSD	105.1 %	0.2 %	6.7 %	2.0 %	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	-0.0096 ppm	0.0145 ppm	0.0760 ppm	0.0880 ppm	58.4682 ppm	6.6472 ppm	0.0731 ppm
Concentration per Run 1	-0.0098 ppm	0.0148 ppm	0.0770 ppm	0.0892 ppm	58.4677 ppm	6.6531 ppm	0.0753 ppm
Concentration per Run 2	-0.0094 ppm	0.0148 ppm	0.0760 ppm	0.0877 ppm	58.5763 ppm	6.6760 ppm	0.0712 ppm
Concentration per Run 3	-0.0096 ppm	0.0138 ppm	0.0749 ppm	0.0872 ppm	58.3608 ppm	6.6126 ppm	0.0727 ppm
Concentration RSD	1.9 %	4.0 %	1.3 %	1.2 %	0.2 %	0.5 %	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	785.5813 [SIC 1000]	2.8637 ppm	0.0249 ppm	3.2973 ppm	0.0383 ppm	0.0327 ppm	0.0040 ppm
Concentration per Run 1	793.1074 ppm	2.8567 ppm	0.0251 ppm	3.2792 ppm	0.0383 ppm	0.0328 ppm	0.0025 ppm
Concentration per Run 2	784.9928 ppm	2.8658 ppm	0.0246 ppm	3.3208 ppm	0.0380 ppm	0.0334 ppm	0.0034 ppm
Concentration per Run 3	778.6437 ppm	2.8684 ppm	0.0251 ppm	3.2920 ppm	0.0385 ppm	0.0319 ppm	0.0061 ppm
Concentration RSD	0.9 %	0.2 %	1.1 %	0.6 %	0.7 %	2.3 %	47.8 %

	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	0.0004 ppm	8.2463 ppm	0.0257 ppm	2.9313 ppm	1.8751 ppm	-0.0034 ppm	0.0562 ppm
Concentration per Run 1	0.0050 ppm	8.3846 ppm	0.0257 ppm	2.9320 ppm	1.8941 ppm	-0.0017 ppm	0.0565 ppm
Concentration per Run 2	0.0005 ppm	8.2509 ppm	0.0265 ppm	2.9475 ppm	1.8722 ppm	-0.0052 ppm	0.0563 ppm
Concentration per Run 3	-0.0043 ppm	8.1033 ppm	0.0250 ppm	2.9144 ppm	1.8592 ppm	-0.0033 ppm	0.0558 ppm
Concentration RSD	1,268.9 %	1.7 %	2.8 %	0.6 %	0.9 %	51.5 %	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	0.2076 ppm	78.4870 %	90.3360 %	57.1546 %	78.6654 %	100.0514 %	80.2488 %
Concentration per Run 1	0.2093 ppm	77.4611 %	90.6010 %	56.7796 %	78.0383 %	100.0474 %	79.9997 %
Concentration per Run 2	0.2089 ppm	78.6331 %	90.4200 %	56.9196 %	78.6662 %	100.2103 %	80.3143 %
Concentration per Run 3	0.2046 ppm	79.3669 %	89.9871 %	57.7645 %	79.2917 %	99.8965 %	80.4323 %
Concentration RSD	1.3 %	1.2 %	0.3 %	0.9 %	0.8 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: xL2473485-04d2 WG2011483
Analysis started at: 12/20/2024 6:10:52 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	0.0011 ppm	61.9489 ppm	0.0460 ppm	0.1011 ppm	2.6873 ppm	0.0062 ppm	1,506.6574 [SIC 1000]
Concentration per Run 1	0.0010 ppm	61.9139 ppm	0.0470 ppm	0.1012 ppm	2.6815 ppm	0.0063 ppm	1,508.5223 ppm
Concentration per Run 2	0.0013 ppm	62.1197 ppm	0.0452 ppm	0.0996 ppm	2.6919 ppm	0.0063 ppm	1,508.4922 ppm
Concentration per Run 3	0.0012 ppm	61.8133 ppm	0.0457 ppm	0.1027 ppm	2.6883 ppm	0.0062 ppm	1,502.9576 ppm
Concentration RSD	13.3 %	0.3 %	2.1 %	1.5 %	0.2 %	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	-0.0087 ppm	0.0415 ppm	0.2089 ppm	6.1963 ppm	66.1460 ppm	11.2301 ppm	0.1084 ppm
Concentration per Run 1	-0.0089 ppm	0.0414 ppm	0.2099 ppm	6.2138 ppm	66.0224 ppm	11.2188 ppm	0.1042 ppm
Concentration per Run 2	-0.0087 ppm	0.0417 ppm	0.2075 ppm	6.1889 ppm	66.6126 ppm	11.3153 ppm	0.1152 ppm
Concentration per Run 3	-0.0087 ppm	0.0413 ppm	0.2093 ppm	6.1860 ppm	65.8030 ppm	11.1563 ppm	0.1058 ppm
Concentration RSD	1.2 %	0.6 %	0.6 %	0.2 %	0.6 %	0.7 %	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	560.8914 [SIC 1000]	2.8598 ppm	0.0184 ppm	4.6819 ppm	0.0665 ppm	0.0316 ppm	0.0088 ppm
Concentration per Run 1	564.5987 ppm	2.8532 ppm	0.0180 ppm	4.6960 ppm	0.0666 ppm	0.0315 ppm	0.0058 ppm
Concentration per Run 2	555.7943 ppm	2.8763 ppm	0.0186 ppm	4.6893 ppm	0.0664 ppm	0.0319 ppm	0.0109 ppm
Concentration per Run 3	562.2810 ppm	2.8500 ppm	0.0185 ppm	4.6604 ppm	0.0665 ppm	0.0314 ppm	0.0097 ppm
Concentration RSD	0.8 %	0.5 %	1.8 %	0.4 %	0.1 %	0.9 %	30.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0026 ppm	9.8679 ppm	0.0151 ppm	3.7449 ppm	2.5920 ppm	-0.0002 ppm	0.0781 ppm
Concentration per Run 1	-0.0010 ppm	9.9091 ppm	0.0150 ppm	3.7374 ppm	2.6096 ppm	-0.0007 ppm	0.0788 ppm
Concentration per Run 2	-0.0030 ppm	9.7777 ppm	0.0156 ppm	3.7639 ppm	2.5746 ppm	-0.0002 ppm	0.0780 ppm
Concentration per Run 3	-0.0038 ppm	9.9171 ppm	0.0145 ppm	3.7332 ppm	2.5917 ppm	0.0002 ppm	0.0774 ppm
Concentration RSD	56.3 %	0.8 %	3.8 %	0.4 %	0.7 %	205.3 %	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	0.2391 ppm	83.2558 %	94.2711 %	58.2837 %	83.1074 %	103.6986 %	82.4114 %
Concentration per Run 1	0.2395 ppm	82.9190 %	94.3454 %	58.0646 %	83.4998 %	103.8302 %	82.6538 %
Concentration per Run 2	0.2375 ppm	83.7551 %	93.6620 %	58.2159 %	83.6904 %	103.0711 %	82.3463 %
Concentration per Run 3	0.2403 ppm	83.0934 %	94.8059 %	58.5706 %	82.1321 %	104.1945 %	82.2343 %
Concentration RSD	0.6 %	0.5 %	0.6 %	0.4 %	1.0 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473504-01d2 WG2011483
Analysis started at: 12/20/2024 6:15:17 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	0.0026 ppm	63.4555 ppm	0.0214 ppm	0.1153 ppm	0.8648 ppm	0.0027 ppm	677.0484 ppm
Concentration per Run 1	0.0026 ppm	63.0804 ppm	0.0231 ppm	0.1164 ppm	0.8579 ppm	0.0027 ppm	674.0107 ppm
Concentration per Run 2	0.0027 ppm	63.7143 ppm	0.0216 ppm	0.1149 ppm	0.8681 ppm	0.0027 ppm	678.1456 ppm
Concentration per Run 3	0.0025 ppm	63.5717 ppm	0.0194 ppm	0.1146 ppm	0.8685 ppm	0.0026 ppm	678.9887 ppm
Concentration RSD	3.7 %	0.5 %	8.7 %	0.8 %	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	-0.0027 ppm	0.0338 ppm	0.2482 ppm	0.1574 ppm	136.9854 ppm	12.1931 ppm	0.0926 ppm
Concentration per Run 1	-0.0028 ppm	0.0339 ppm	0.2494 ppm	0.1578 ppm	136.4553 ppm	12.1491 ppm	0.0995 ppm
Concentration per Run 2	-0.0027 ppm	0.0335 ppm	0.2473 ppm	0.1575 ppm	137.2906 ppm	12.2706 ppm	0.0903 ppm
Concentration per Run 3	-0.0027 ppm	0.0340 ppm	0.2478 ppm	0.1568 ppm	137.2102 ppm	12.1596 ppm	0.0878 ppm
Concentration RSD	2.9 %	0.7 %	0.4 %	0.3 %	0.3 %	0.6 %	6.7 %

	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	51.6210 ppm	1.6247 ppm	0.0301 ppm	10.1796 ppm	0.0997 ppm	0.0250 ppm	0.0030 ppm
Concentration per Run 1	51.9703 ppm	1.6175 ppm	0.0295 ppm	10.1087 ppm	0.1013 ppm	0.0244 ppm	0.0032 ppm
Concentration per Run 2	51.3904 ppm	1.6324 ppm	0.0307 ppm	10.2505 ppm	0.0980 ppm	0.0253 ppm	0.0009 ppm
Concentration per Run 3	51.5024 ppm	1.6241 ppm	0.0300 ppm	10.1796 ppm	0.0998 ppm	0.0252 ppm	0.0049 ppm
Concentration RSD	0.6 %	0.5 %	1.9 %	0.7 %	1.7 %	2.1 %	67.8 %

	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	6.1326 ppm	0.0228 ppm	3.1490 ppm	3.8314 ppm	0.0027 ppm	0.1655 ppm
Concentration per Run 1	-0.0034 ppm	6.1522 ppm	0.0216 ppm	3.1377 ppm	3.8490 ppm	0.0020 ppm	0.1661 ppm
Concentration per Run 2	-0.0027 ppm	6.1321 ppm	0.0240 ppm	3.1579 ppm	3.8194 ppm	0.0036 ppm	0.1644 ppm
Concentration per Run 3	-0.0001 ppm	6.1135 ppm	0.0228 ppm	3.1513 ppm	3.8258 ppm	0.0025 ppm	0.1659 ppm
Concentration RSD	85.4 %	0.3 %	5.1 %	0.3 %	0.4 %	30.8 %	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	0.3102 ppm	91.6197 %	99.7364 %	69.1216 %	104.0275 %	126.7435 %	108.4465 %
Concentration per Run 1	0.3120 ppm	91.2409 %	100.1475 %	69.6371 %	103.8928 %	127.1801 %	108.7418 %
Concentration per Run 2	0.3088 ppm	91.6631 %	99.2581 %	68.3322 %	103.9893 %	126.2926 %	107.6414 %
Concentration per Run 3	0.3098 ppm	91.9550 %	99.8035 %	69.3954 %	104.2003 %	126.7579 %	108.9563 %
Concentration RSD	0.5 %	0.4 %	0.4 %	1.0 %	0.2 %	0.4 %	0.7 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473504-02d2 WG2011483
Analysis started at: 12/20/2024 6:19:42 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	0.0026 ppm	75.7856 ppm	0.0395 ppm	0.1003 ppm	0.4743 ppm	0.0038 ppm	796.6213 ppm
Concentration per Run 1	0.0027 ppm	74.7522 ppm	0.0386 ppm	0.1015 ppm	0.4667 ppm	0.0037 ppm	786.0459 ppm
Concentration per Run 2	0.0026 ppm	76.2269 ppm	0.0406 ppm	0.1000 ppm	0.4782 ppm	0.0038 ppm	802.8006 ppm
Concentration per Run 3	0.0024 ppm	76.3777 ppm	0.0393 ppm	0.0994 ppm	0.4781 ppm	0.0038 ppm	801.0174 ppm
Concentration RSD	5.5 %	1.2 %	2.7 %	1.1 %	1.4 %	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	-0.0017 ppm	0.0298 ppm	0.1266 ppm	0.1624 ppm	143.3970 ppm	7.3367 ppm	0.0834 ppm
Concentration per Run 1	-0.0016 ppm	0.0308 ppm	0.1280 ppm	0.1640 ppm	141.4415 ppm	7.2269 ppm	0.0817 ppm
Concentration per Run 2	-0.0016 ppm	0.0298 ppm	0.1262 ppm	0.1616 ppm	144.5838 ppm	7.4013 ppm	0.0826 ppm
Concentration per Run 3	-0.0019 ppm	0.0288 ppm	0.1256 ppm	0.1614 ppm	144.1658 ppm	7.3819 ppm	0.0859 ppm
Concentration RSD	9.8 %	3.3 %	1.0 %	0.9 %	1.2 %	1.3 %	2.6 %

	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	54.7657 ppm	2.8934 ppm	0.0098 ppm	10.2660 ppm	0.0681 ppm	0.0967 ppm	0.0015 ppm
Concentration per Run 1	55.2222 ppm	2.8575 ppm	0.0099 ppm	10.1445 ppm	0.0690 ppm	0.0951 ppm	0.0021 ppm
Concentration per Run 2	54.7066 ppm	2.9093 ppm	0.0102 ppm	10.3475 ppm	0.0674 ppm	0.0981 ppm	0.0015 ppm
Concentration per Run 3	54.3682 ppm	2.9136 ppm	0.0094 ppm	10.3061 ppm	0.0678 ppm	0.0970 ppm	0.0008 ppm
Concentration RSD	0.8 %	1.1 %	4.2 %	1.0 %	1.2 %	1.6 %	43.1 %

	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	-0.0029 ppm	7.0431 ppm	0.0176 ppm	3.3532 ppm	2.5465 ppm	0.0001 ppm	0.1422 ppm
Concentration per Run 1	0.0000 ppm	7.1307 ppm	0.0176 ppm	3.3015 ppm	2.5705 ppm	0.0002 ppm	0.1431 ppm
Concentration per Run 2	-0.0044 ppm	7.0190 ppm	0.0179 ppm	3.3837 ppm	2.5396 ppm	0.0011 ppm	0.1414 ppm
Concentration per Run 3	-0.0043 ppm	6.9795 ppm	0.0174 ppm	3.3743 ppm	2.5293 ppm	-0.0011 ppm	0.1421 ppm
Concentration RSD	87.9 %	1.1 %	1.2 %	1.3 %	0.8 %	1,351.4 %	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	0.5107 ppm	92.4214 %	102.3480 %	70.3760 %	100.6963 %	124.3493 %	104.8486 %
Concentration per Run 1	0.5162 ppm	91.5427 %	103.5785 %	70.3176 %	100.1798 %	125.5600 %	104.9587 %
Concentration per Run 2	0.5099 ppm	92.7861 %	101.8577 %	70.2819 %	100.6401 %	123.4756 %	104.4828 %
Concentration per Run 3	0.5060 ppm	92.9354 %	101.6077 %	70.5285 %	101.2689 %	124.0122 %	105.1043 %
Concentration RSD	1.0 %	0.8 %	1.0 %	0.2 %	0.5 %	0.9 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473504-03d2 WG2011483
Analysis started at: 12/20/2024 6:23:35 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	0.0044 ppm	87.8058 ppm	0.0341 ppm	0.1124 ppm	0.5141 ppm	0.0037 ppm	954.2311 ppm
Concentration per Run 1	0.0044 ppm	87.4953 ppm	0.0357 ppm	0.1116 ppm	0.5127 ppm	0.0037 ppm	952.4245 ppm
Concentration per Run 2	0.0045 ppm	88.1375 ppm	0.0321 ppm	0.1133 ppm	0.5140 ppm	0.0038 ppm	960.0415 ppm
Concentration per Run 3	0.0044 ppm	87.7845 ppm	0.0346 ppm	0.1124 ppm	0.5157 ppm	0.0037 ppm	950.2273 ppm
Concentration RSD	1.7 %	0.4 %	5.4 %	0.8 %	0.3 %	1.6 %	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	-0.0019 ppm	0.0271 ppm	0.1776 ppm	24.8427 [SIC 40]	162.6037 ppm	14.5241 ppm	0.1295 ppm
Concentration per Run 1	-0.0020 ppm	0.0270 ppm	0.1771 ppm	24.8571 ppm	162.7670 ppm	14.4931 ppm	0.1224 ppm
Concentration per Run 2	-0.0018 ppm	0.0271 ppm	0.1777 ppm	24.8024 ppm	163.0326 ppm	14.5446 ppm	0.1344 ppm
Concentration per Run 3	-0.0019 ppm	0.0273 ppm	0.1781 ppm	24.8685 ppm	162.0116 ppm	14.5345 ppm	0.1316 ppm
Concentration RSD	6.0 %	0.7 %	0.3 %	0.1 %	0.3 %	0.2 %	4.9 %

	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	63.7930 ppm	2.2003 ppm	0.0142 ppm	9.5897 ppm	0.0882 ppm	0.1348 ppm	0.0021 ppm
Concentration per Run 1	63.2240 ppm	2.2009 ppm	0.0137 ppm	9.5377 ppm	0.0874 ppm	0.1338 ppm	-0.0003 ppm
Concentration per Run 2	63.9306 ppm	2.2047 ppm	0.0140 ppm	9.6100 ppm	0.0882 ppm	0.1358 ppm	0.0039 ppm
Concentration per Run 3	64.2243 ppm	2.1953 ppm	0.0149 ppm	9.6213 ppm	0.0891 ppm	0.1347 ppm	0.0029 ppm
Concentration RSD	0.8 %	0.2 %	4.3 %	0.5 %	1.0 %	0.8 %	103.1 %

	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	3.9712 ppm	0.0357 ppm	5.1209 ppm	3.1811 ppm	0.0022 ppm	0.1658 ppm
Concentration per Run 1	-0.0006 ppm	3.9841 ppm	0.0354 ppm	5.1083 ppm	3.1635 ppm	0.0014 ppm	0.1653 ppm
Concentration per Run 2	0.0026 ppm	3.9659 ppm	0.0354 ppm	5.1527 ppm	3.1843 ppm	0.0029 ppm	0.1652 ppm
Concentration per Run 3	-0.0034 ppm	3.9637 ppm	0.0363 ppm	5.1016 ppm	3.1956 ppm	0.0024 ppm	0.1668 ppm
Concentration RSD	612.7 %	0.3 %	1.5 %	0.5 %	0.5 %	34.7 %	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	0.8278 ppm	95.2123 %	100.8488 %	69.2026 %	100.5696 %	123.6307 %	102.9025 %
Concentration per Run 1	0.8215 ppm	95.8014 %	100.7267 %	69.7540 %	100.9179 %	123.3471 %	103.6398 %
Concentration per Run 2	0.8294 ppm	95.1395 %	100.6156 %	68.6512 %	100.1859 %	123.3712 %	102.4871 %
Concentration per Run 3	0.8327 ppm	94.6959 %	101.2041 %	69.2027 %	100.6048 %	124.1737 %	102.5807 %
Concentration RSD	0.7 %	0.6 %	0.3 %	0.8 %	0.4 %	0.4 %	0.6 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: CCV
Analysis started at: 12/20/2024 6:28:11 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	0.4876 ppm	0.4834 ppm	0.4554 ppm	0.4823 ppm	0.4935 ppm	0.5040 ppm	0.5143 ppm
Concentration per Run 1	0.4913 ppm	0.4884 ppm	0.4580 ppm	0.4829 ppm	0.4956 ppm	0.5049 ppm	0.5183 ppm
Concentration per Run 2	0.4868 ppm	0.4793 ppm	0.4547 ppm	0.4856 ppm	0.4895 ppm	0.5004 ppm	0.5091 ppm
Concentration per Run 3	0.4848 ppm	0.4825 ppm	0.4535 ppm	0.4783 ppm	0.4955 ppm	0.5068 ppm	0.5155 ppm
Recovery Percentage 1	97.528 %	96.684 %	91.078 %	96.455 %	98.705 %	100.801 %	102.859 %
Concentration RSD	0.7 %	1.0 %	0.5 %	0.8 %	0.7 %	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	0.4780 ppm	0.4999 ppm	0.4846 ppm	0.4951 ppm	0.5262 ppm	5.1660 ppm	0.4949 ppm
Concentration per Run 1	0.4755 ppm	0.4989 ppm	0.4853 ppm	0.4987 ppm	0.5290 ppm	5.1704 ppm	0.4983 ppm
Concentration per Run 2	0.4803 ppm	0.5016 ppm	0.4850 ppm	0.4956 ppm	0.5232 ppm	5.0933 ppm	0.4857 ppm
Concentration per Run 3	0.4783 ppm	0.4991 ppm	0.4834 ppm	0.4909 ppm	0.5262 ppm	5.2342 ppm	0.5007 ppm
Recovery Percentage 1	95.599 %	99.974 %	96.912 %	99.014 %	105.231 %	103.320 %	98.982 %
Concentration RSD	0.5 %	0.3 %	0.2 %	0.8 %	0.6 %	1.4 %	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	0.4965 ppm	0.4853 ppm	0.4961 ppm	9.8325 ppm	0.4995 ppm	0.4803 ppm	0.4921 ppm
Concentration per Run 1	0.4963 ppm	0.4870 ppm	0.4913 ppm	9.8420 ppm	0.5004 ppm	0.4805 ppm	0.4888 ppm
Concentration per Run 2	0.4960 ppm	0.4819 ppm	0.4990 ppm	9.7986 ppm	0.4991 ppm	0.4824 ppm	0.4996 ppm
Concentration per Run 3	0.4972 ppm	0.4871 ppm	0.4978 ppm	9.8571 ppm	0.4992 ppm	0.4779 ppm	0.4879 ppm
Recovery Percentage 1	99.298 %	97.063 %	99.210 %	98.325 %	99.909 %	96.051 %	98.422 %
Concentration RSD	0.1 %	0.6 %	0.8 %	0.3 %	0.1 %	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	0.4597 ppm	5.5111 ppm	0.5071 ppm	0.5181 ppm	0.4913 ppm	0.4812 ppm	0.4845 ppm
Concentration per Run 1	0.4555 ppm	5.5327 ppm	0.5068 ppm	0.5200 ppm	0.4936 ppm	0.4808 ppm	0.4848 ppm
Concentration per Run 2	0.4607 ppm	5.5210 ppm	0.5133 ppm	0.5134 ppm	0.4909 ppm	0.4803 ppm	0.4845 ppm
Concentration per Run 3	0.4629 ppm	5.4794 ppm	0.5013 ppm	0.5209 ppm	0.4894 ppm	0.4826 ppm	0.4840 ppm
Recovery Percentage 1	91.938 %	104.973 %	101.427 %	103.621 %	98.259 %	96.245 %	96.891 %
Concentration RSD	0.8 %	0.5 %	1.2 %	0.8 %	0.4 %	0.2 %	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	0.4862 ppm	105.4150 %	102.9511 %	96.7533 %	91.2405 %	98.2553 %	93.1981 %
Concentration per Run 1	0.4846 ppm	105.6038 %	102.5144 %	96.5221 %	91.5420 %	98.3176 %	93.2405 %
Concentration per Run 2	0.4888 ppm	105.2242 %	104.1444 %	96.8815 %	91.3026 %	98.7239 %	93.3487 %
Concentration per Run 3	0.4851 ppm	105.4170 %	102.1945 %	96.8564 %	90.8769 %	97.7244 %	93.0050 %
Recovery Percentage 1	97.235 %						
Concentration RSD	0.5 %	0.2 %	1.0 %	0.2 %	0.4 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: CCB
Analysis started at: 12/20/2024 6:32:36 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	0.0000 ppm	0.0037 ppm	0.0002 ppm	-0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0031 ppm
Concentration per Run 1	0.0000 ppm	0.0021 ppm	0.0018 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0020 ppm
Concentration per Run 2	0.0001 ppm	0.0046 ppm	-0.0011 ppm	-0.0017 ppm	0.0002 ppm	0.0000 ppm	0.0039 ppm
Concentration per Run 3	0.0000 ppm	0.0045 ppm	-0.0001 ppm	-0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0034 ppm
Recovery Percentage 1	0.433 %	3.741 %	3.620 %	-2.912 %	1.379 %	0.085 %	3.122 %
Concentration RSD	401.9 %	37.8 %	799.4 %	83.8 %	19.8 %	117.8 %	32.3 %

	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	-0.0003 ppm	-0.0001 ppm	0.0007 ppm	0.0024 ppm	0.0132 ppm	-0.0002 ppm
Concentration per Run 1	0.0001 ppm	-0.0004 ppm	-0.0001 ppm	0.0009 ppm	0.0031 ppm	0.0121 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	-0.0001 ppm	0.0006 ppm	0.0024 ppm	0.0067 ppm	0.0001 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	0.0001 ppm	0.0006 ppm	0.0016 ppm	0.0209 ppm	-0.0004 ppm
Recovery Percentage 1	1.332 %	-3.474 %	-0.549 %	7.124 %	4.777 %	0.530 %	-1.610 %
Concentration RSD	134.3 %	20.5 %	184.6 %	24.6 %	30.9 %	54.0 %	168.2 %

	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	-0.0008 ppm	0.0000 ppm	0.0020 ppm	-0.0166 ppm	0.0001 ppm	-0.0005 ppm	-0.0004 ppm
Concentration per Run 1	0.0003 ppm	0.0000 ppm	0.0019 ppm	-0.0181 ppm	0.0002 ppm	-0.0007 ppm	0.0000 ppm
Concentration per Run 2	-0.0018 ppm	-0.0002 ppm	0.0022 ppm	-0.0175 ppm	0.0001 ppm	-0.0008 ppm	0.0007 ppm
Concentration per Run 3	-0.0008 ppm	0.0001 ppm	0.0020 ppm	-0.0142 ppm	0.0001 ppm	0.0000 ppm	-0.0018 ppm
Recovery Percentage 1	-0.784 %	-0.252 %	4.054 %	-0.831 %	0.552 %	-4.942 %	-0.732 %
Concentration RSD	133.8 %	560.5 %	9.3 %	12.5 %	27.8 %	91.0 %	352.2 %

	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	0.0044 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 1	-0.0019 ppm	0.0054 ppm	0.0018 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0003 ppm
Concentration per Run 2	-0.0008 ppm	0.0079 ppm	0.0004 ppm	0.0000 ppm	0.0002 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 3	-0.0009 ppm	-0.0002 ppm	0.0005 ppm	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0001 ppm
Recovery Percentage 1	-12.049 %	0.873 %	1.760 %	0.068 %	0.409 %	-0.296 %	0.833 %
Concentration RSD	50.0 %	94.9 %	87.6 %	420.9 %	331.8 %	654.5 %	256.2 %

	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	101.5792 %	102.5885 %	98.4696 %	92.9998 %	100.0231 %	95.2055 %
Concentration per Run 1	0.0005 ppm	100.6221 %	102.9988 %	97.9538 %	92.9401 %	100.6818 %	95.2556 %
Concentration per Run 2	0.0006 ppm	101.5653 %	102.2100 %	98.7225 %	93.1529 %	99.9846 %	95.5709 %
Concentration per Run 3	0.0006 ppm	102.5501 %	102.5568 %	98.7325 %	92.9065 %	99.4028 %	94.7900 %
Recovery Percentage 1	11.009 %						
Concentration RSD	7.2 %	0.9 %	0.4 %	0.5 %	0.1 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2472872-02 WG2011473
Analysis started at: 12/20/2024 6:52:23 PM
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	-0.0001 ppm	0.4141 ppm	0.0006 ppm	0.0006 ppm	0.0050 ppm	0.0000 ppm	2.5154 ppm
Concentration per Run 1	-0.0004 ppm	0.4154 ppm	0.0013 ppm	0.0007 ppm	0.0050 ppm	0.0000 ppm	2.5127 ppm
Concentration per Run 2	0.0000 ppm	0.4129 ppm	-0.0003 ppm	-0.0002 ppm	0.0050 ppm	0.0000 ppm	2.5023 ppm
Concentration per Run 3	0.0001 ppm	0.4139 ppm	0.0007 ppm	0.0015 ppm	0.0050 ppm	0.0000 ppm	2.5311 ppm
Concentration RSD	187.5 %	0.3 %	136.7 %	133.4 %	0.6 %	28.9 %	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	0.0000 ppm	0.0009 ppm	0.0006 ppm	0.0037 ppm	0.6773 ppm	0.7123 ppm	0.0014 ppm
Concentration per Run 1	0.0001 ppm	0.0012 ppm	0.0005 ppm	0.0037 ppm	0.6759 ppm	0.7207 ppm	0.0018 ppm
Concentration per Run 2	0.0000 ppm	0.0010 ppm	0.0005 ppm	0.0037 ppm	0.6732 ppm	0.7065 ppm	0.0011 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0007 ppm	0.0037 ppm	0.6828 ppm	0.7099 ppm	0.0012 ppm
Concentration RSD	175.6 %	43.2 %	20.3 %	0.1 %	0.7 %	1.0 %	26.3 %

	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	1.2393 ppm	0.0397 ppm	0.0005 ppm	3.4345 ppm	0.0063 ppm	0.0010 ppm	0.0004 ppm
Concentration per Run 1	1.2423 ppm	0.0394 ppm	0.0011 ppm	3.4309 ppm	0.0064 ppm	0.0010 ppm	0.0003 ppm
Concentration per Run 2	1.2452 ppm	0.0397 ppm	0.0004 ppm	3.4401 ppm	0.0066 ppm	0.0006 ppm	0.0010 ppm
Concentration per Run 3	1.2305 ppm	0.0399 ppm	0.0001 ppm	3.4324 ppm	0.0059 ppm	0.0016 ppm	-0.0001 ppm
Concentration RSD	0.6 %	0.6 %	86.8 %	0.1 %	5.5 %	50.0 %	143.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0018 ppm	0.7224 ppm	-0.0001 ppm	0.0137 ppm	0.0343 ppm	0.0001 ppm	0.0011 ppm
Concentration per Run 1	-0.0014 ppm	0.7286 ppm	0.0002 ppm	0.0137 ppm	0.0344 ppm	-0.0004 ppm	0.0010 ppm
Concentration per Run 2	-0.0029 ppm	0.7184 ppm	-0.0004 ppm	0.0137 ppm	0.0342 ppm	0.0002 ppm	0.0011 ppm
Concentration per Run 3	-0.0011 ppm	0.7202 ppm	0.0000 ppm	0.0137 ppm	0.0343 ppm	0.0005 ppm	0.0012 ppm
Concentration RSD	55.0 %	0.8 %	423.8 %	0.1 %	0.2 %	373.8 %	5.2 %

	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	0.0105 ppm	114.0911 %	106.7882 %	109.1903 %	96.1731 %	100.3580 %	96.7560 %
Concentration per Run 1	0.0105 ppm	113.6713 %	107.4856 %	109.4078 %	95.5534 %	100.9661 %	97.2513 %
Concentration per Run 2	0.0104 ppm	114.0135 %	107.4744 %	108.9259 %	96.2204 %	100.4947 %	96.4848 %
Concentration per Run 3	0.0107 ppm	114.5884 %	105.4048 %	109.2373 %	96.7455 %	99.6132 %	96.5318 %
Concentration RSD	1.2 %	0.4 %	1.1 %	0.2 %	0.6 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2472872-03 WG2011473
Analysis started at: 12/20/2024 6:57:03 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	-0.0001 ppm	0.6563 ppm	0.0015 ppm	0.0014 ppm	0.0055 ppm	0.0000 ppm	1.3716 ppm
Concentration per Run 1	-0.0003 ppm	0.6565 ppm	0.0027 ppm	0.0020 ppm	0.0055 ppm	0.0000 ppm	1.3789 ppm
Concentration per Run 2	0.0000 ppm	0.6562 ppm	0.0011 ppm	0.0014 ppm	0.0055 ppm	0.0000 ppm	1.3644 ppm
Concentration per Run 3	0.0000 ppm	0.6562 ppm	0.0007 ppm	0.0006 ppm	0.0054 ppm	0.0000 ppm	1.3716 ppm
Concentration RSD	133.3 %	0.0 %	73.6 %	53.2 %	1.2 %	388.6 %	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	0.0000 ppm	0.0005 ppm	0.0012 ppm	0.0034 ppm	1.1522 ppm	0.3071 ppm	0.0010 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	0.0013 ppm	0.0033 ppm	1.1593 ppm	0.3134 ppm	0.0013 ppm
Concentration per Run 2	0.0000 ppm	0.0008 ppm	0.0010 ppm	0.0033 ppm	1.1542 ppm	0.3007 ppm	0.0007 ppm
Concentration per Run 3	0.0001 ppm	0.0005 ppm	0.0013 ppm	0.0036 ppm	1.1430 ppm	0.3072 ppm	0.0011 ppm
Concentration RSD	104.1 %	78.3 %	15.4 %	4.5 %	0.7 %	2.1 %	34.0 %

	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	0.5092 ppm	0.0257 ppm	0.0000 ppm	4.8154 ppm	0.0013 ppm	0.0016 ppm	0.0005 ppm
Concentration per Run 1	0.5157 ppm	0.0257 ppm	-0.0002 ppm	4.7960 ppm	0.0010 ppm	0.0016 ppm	0.0005 ppm
Concentration per Run 2	0.5071 ppm	0.0259 ppm	0.0000 ppm	4.8437 ppm	0.0019 ppm	0.0015 ppm	0.0015 ppm
Concentration per Run 3	0.5049 ppm	0.0256 ppm	0.0001 ppm	4.8066 ppm	0.0011 ppm	0.0018 ppm	-0.0004 ppm
Concentration RSD	1.1 %	0.6 %	1,028.8 %	0.5 %	37.3 %	9.8 %	173.0 %

	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	-0.0005 ppm	0.8630 ppm	-0.0001 ppm	0.0026 ppm	0.0370 ppm	0.0004 ppm	0.0021 ppm
Concentration per Run 1	0.0003 ppm	0.8658 ppm	0.0001 ppm	0.0027 ppm	0.0372 ppm	0.0007 ppm	0.0021 ppm
Concentration per Run 2	-0.0004 ppm	0.8684 ppm	0.0001 ppm	0.0026 ppm	0.0374 ppm	0.0002 ppm	0.0020 ppm
Concentration per Run 3	-0.0016 ppm	0.8548 ppm	-0.0004 ppm	0.0026 ppm	0.0364 ppm	0.0002 ppm	0.0020 ppm
Concentration RSD	172.0 %	0.8 %	395.2 %	1.4 %	1.4 %	82.0 %	3.8 %

	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	0.0379 ppm	100.7882 %	103.1954 %	96.9837 %	94.0508 %	100.6167 %	95.1933 %
Concentration per Run 1	0.0384 ppm	99.7268 %	102.9271 %	96.0127 %	93.9895 %	100.6740 %	95.3004 %
Concentration per Run 2	0.0378 ppm	100.8247 %	103.1544 %	97.1209 %	94.2339 %	100.4714 %	95.1720 %
Concentration per Run 3	0.0376 ppm	101.8133 %	103.5046 %	97.8176 %	93.9292 %	100.7048 %	95.1073 %
Concentration RSD	1.2 %	1.0 %	0.3 %	0.9 %	0.2 %	0.1 %	0.1 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2472822-01 WG2011473
Analysis started at: 12/20/2024 7:01:29 PM
Rack 1
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0277 ppm	0.0704 ppm	0.0381 ppm	0.0916 ppm	0.0000 ppm	9.7379 ppm
Concentration per Run 1	0.0001 ppm	0.0306 ppm	0.0710 ppm	0.0388 ppm	0.0915 ppm	0.0000 ppm	9.7542 ppm
Concentration per Run 2	0.0000 ppm	0.0260 ppm	0.0720 ppm	0.0384 ppm	0.0920 ppm	0.0000 ppm	9.6922 ppm
Concentration per Run 3	0.0000 ppm	0.0263 ppm	0.0682 ppm	0.0370 ppm	0.0914 ppm	0.0000 ppm	9.7671 ppm
Concentration RSD	81.0 %	9.2 %	2.8 %	2.4 %	0.4 %	161.2 %	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	-0.0004 ppm	0.0001 ppm	0.1083 ppm	0.0222 ppm	0.3466 ppm	1.4701 ppm	0.0039 ppm
Concentration per Run 1	-0.0004 ppm	-0.0001 ppm	0.1101 ppm	0.0224 ppm	0.3472 ppm	1.4671 ppm	0.0041 ppm
Concentration per Run 2	-0.0003 ppm	0.0004 ppm	0.1075 ppm	0.0221 ppm	0.3454 ppm	1.4730 ppm	0.0038 ppm
Concentration per Run 3	-0.0003 ppm	-0.0002 ppm	0.1074 ppm	0.0220 ppm	0.3471 ppm	1.4700 ppm	0.0037 ppm
Concentration RSD	12.5 %	549.9 %	1.4 %	1.0 %	0.3 %	0.2 %	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	2.6398 ppm	0.0079 ppm	-0.0003 ppm	419.5410 ppm	0.0066 ppm	0.1621 ppm	0.0014 ppm
Concentration per Run 1	2.6928 ppm	0.0079 ppm	-0.0003 ppm	418.6932 ppm	0.0075 ppm	0.1641 ppm	0.0014 ppm
Concentration per Run 2	2.6061 ppm	0.0079 ppm	-0.0003 ppm	420.6822 ppm	0.0065 ppm	0.1617 ppm	0.0007 ppm
Concentration per Run 3	2.6204 ppm	0.0079 ppm	-0.0004 ppm	419.2476 ppm	0.0059 ppm	0.1605 ppm	0.0020 ppm
Concentration RSD	1.8 %	0.6 %	34.1 %	0.2 %	12.3 %	1.1 %	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	0.1211 ppm	11.3683 ppm	0.0372 ppm	0.0669 ppm	0.0012 ppm	-0.0738 ppm	0.0005 ppm
Concentration per Run 1	0.1240 ppm	13.7290 ppm	0.0372 ppm	0.0668 ppm	0.0013 ppm	-0.0745 ppm	0.0006 ppm
Concentration per Run 2	0.1190 ppm	11.1814 ppm	0.0382 ppm	0.0672 ppm	0.0012 ppm	-0.0737 ppm	0.0006 ppm
Concentration per Run 3	0.1202 ppm	9.1945 ppm	0.0362 ppm	0.0668 ppm	0.0012 ppm	-0.0731 ppm	0.0003 ppm
Concentration RSD	2.2 %	20.0 %	2.7 %	0.3 %	2.7 %	0.9 %	31.9 %

	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	0.0231 ppm	87.8167 %	105.1934 %	63.6380 %	78.5120 %	101.3556 %	76.7133 %
Concentration per Run 1	0.0236 ppm	86.7233 %	105.2781 %	62.7402 %	78.1374 %	101.5636 %	76.3447 %
Concentration per Run 2	0.0229 ppm	88.2014 %	105.1139 %	64.0286 %	79.0668 %	101.3069 %	77.2849 %
Concentration per Run 3	0.0228 ppm	88.5255 %	105.1883 %	64.1453 %	78.3319 %	101.1963 %	76.5104 %
Concentration RSD	1.8 %	1.1 %	0.1 %	1.2 %	0.6 %	0.2 %	0.7 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2472827-01 WG2011473
Analysis started at: 12/20/2024 7:05:53 PM
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	0.1156 ppm	0.0607 ppm	0.1875 ppm	0.1012 ppm	0.0000 ppm	10.7243 ppm
Concentration per Run 1	-0.0001 ppm	0.1147 ppm	0.0625 ppm	0.1897 ppm	0.1013 ppm	0.0000 ppm	10.6787 ppm
Concentration per Run 2	0.0000 ppm	0.1179 ppm	0.0579 ppm	0.1866 ppm	0.1013 ppm	0.0000 ppm	10.7798 ppm
Concentration per Run 3	0.0004 ppm	0.1140 ppm	0.0616 ppm	0.1861 ppm	0.1012 ppm	0.0000 ppm	10.7144 ppm
Concentration RSD	289.7 %	1.8 %	4.0 %	1.0 %	0.1 %	314.6 %	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	-0.0004 ppm	0.0007 ppm	0.2316 ppm	0.1766 ppm	3.7526 ppm	1.3202 ppm	0.0031 ppm
Concentration per Run 1	-0.0004 ppm	0.0009 ppm	0.2351 ppm	0.1780 ppm	3.7392 ppm	1.3537 ppm	0.0030 ppm
Concentration per Run 2	-0.0004 ppm	0.0003 ppm	0.2298 ppm	0.1771 ppm	3.7683 ppm	1.2966 ppm	0.0035 ppm
Concentration per Run 3	-0.0005 ppm	0.0009 ppm	0.2300 ppm	0.1748 ppm	3.7503 ppm	1.3105 ppm	0.0029 ppm
Concentration RSD	10.5 %	48.4 %	1.3 %	0.9 %	0.4 %	2.3 %	9.7 %

	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	2.6964 ppm	0.0611 ppm	-0.0014 ppm	351.5583 ppm	0.0290 ppm	0.7977 ppm	-0.0026 ppm
Concentration per Run 1	2.7250 ppm	0.0609 ppm	-0.0014 ppm	354.7041 ppm	0.0294 ppm	0.7993 ppm	-0.0007 ppm
Concentration per Run 2	2.6910 ppm	0.0614 ppm	-0.0014 ppm	349.9327 ppm	0.0291 ppm	0.8038 ppm	-0.0049 ppm
Concentration per Run 3	2.6732 ppm	0.0610 ppm	-0.0014 ppm	350.0380 ppm	0.0286 ppm	0.7901 ppm	-0.0022 ppm
Concentration RSD	1.0 %	0.4 %	1.5 %	0.8 %	1.3 %	0.9 %	83.0 %

	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	0.1334 ppm	1.1177 ppm	0.0404 ppm	0.0657 ppm	0.0003 ppm	-0.0812 ppm	0.0006 ppm
Concentration per Run 1	0.1348 ppm	1.1623 ppm	0.0397 ppm	0.0658 ppm	0.0003 ppm	-0.0849 ppm	0.0006 ppm
Concentration per Run 2	0.1357 ppm	1.1153 ppm	0.0393 ppm	0.0658 ppm	0.0003 ppm	-0.0789 ppm	0.0007 ppm
Concentration per Run 3	0.1296 ppm	1.0755 ppm	0.0421 ppm	0.0655 ppm	0.0004 ppm	-0.0797 ppm	0.0007 ppm
Concentration RSD	2.4 %	3.9 %	3.7 %	0.2 %	14.1 %	4.0 %	10.1 %

	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	0.1610 ppm	88.7271 %	105.4630 %	63.4008 %	78.8672 %	101.5056 %	76.5444 %
Concentration per Run 1	0.1640 ppm	87.7769 %	105.8927 %	62.6262 %	78.5739 %	102.1223 %	76.1462 %
Concentration per Run 2	0.1594 ppm	89.0593 %	105.0091 %	63.2364 %	79.1569 %	101.1260 %	76.4229 %
Concentration per Run 3	0.1596 ppm	89.3452 %	105.4873 %	64.3399 %	78.8707 %	101.2684 %	77.0641 %
Concentration RSD	1.6 %	0.9 %	0.4 %	1.4 %	0.4 %	0.5 %	0.6 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2472973-01 WG2011473
Analysis started at: 12/20/2024 7:10:18 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	0.0000 ppm	0.1163 ppm	0.0485 ppm	0.1870 ppm	0.1013 ppm	0.0000 ppm	10.8608 ppm
Concentration per Run 1	-0.0001 ppm	0.1143 ppm	0.0498 ppm	0.1872 ppm	0.1021 ppm	0.0000 ppm	10.9024 ppm
Concentration per Run 2	0.0000 ppm	0.1166 ppm	0.0467 ppm	0.1864 ppm	0.1013 ppm	0.0000 ppm	10.7904 ppm
Concentration per Run 3	0.0000 ppm	0.1179 ppm	0.0490 ppm	0.1872 ppm	0.1004 ppm	0.0000 ppm	10.8896 ppm
Concentration RSD	178.6 %	1.6 %	3.4 %	0.3 %	0.9 %	376.4 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0004 ppm	0.1850 ppm	0.1699 ppm	3.4467 ppm	1.3027 ppm	0.0035 ppm
Concentration per Run 1	-0.0004 ppm	0.0004 ppm	0.1861 ppm	0.1703 ppm	3.4647 ppm	1.3274 ppm	0.0036 ppm
Concentration per Run 2	-0.0003 ppm	0.0002 ppm	0.1851 ppm	0.1703 ppm	3.4399 ppm	1.2990 ppm	0.0033 ppm
Concentration per Run 3	-0.0003 ppm	0.0005 ppm	0.1838 ppm	0.1692 ppm	3.4353 ppm	1.2815 ppm	0.0035 ppm
Concentration RSD	24.6 %	47.9 %	0.6 %	0.4 %	0.5 %	1.8 %	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	2.7474 ppm	0.0588 ppm	-0.0016 ppm	352.3040 ppm	0.0267 ppm	0.7377 ppm	-0.0028 ppm
Concentration per Run 1	2.7642 ppm	0.0591 ppm	-0.0017 ppm	355.0990 ppm	0.0268 ppm	0.7399 ppm	-0.0019 ppm
Concentration per Run 2	2.7532 ppm	0.0585 ppm	-0.0017 ppm	352.7859 ppm	0.0263 ppm	0.7378 ppm	-0.0043 ppm
Concentration per Run 3	2.7246 ppm	0.0588 ppm	-0.0014 ppm	349.0270 ppm	0.0271 ppm	0.7354 ppm	-0.0020 ppm
Concentration RSD	0.7 %	0.5 %	11.8 %	0.9 %	1.5 %	0.3 %	49.2 %

	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	0.1176 ppm	0.7602 ppm	0.0353 ppm	0.0664 ppm	0.0001 ppm	-0.0702 ppm	0.0006 ppm
Concentration per Run 1	0.1161 ppm	0.7848 ppm	0.0364 ppm	0.0669 ppm	0.0000 ppm	-0.0688 ppm	0.0005 ppm
Concentration per Run 2	0.1194 ppm	0.7564 ppm	0.0353 ppm	0.0664 ppm	0.0001 ppm	-0.0707 ppm	0.0008 ppm
Concentration per Run 3	0.1175 ppm	0.7393 ppm	0.0343 ppm	0.0658 ppm	0.0002 ppm	-0.0710 ppm	0.0006 ppm
Concentration RSD	1.4 %	3.0 %	2.9 %	0.9 %	80.1 %	1.8 %	24.1 %

	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	0.1595 ppm	90.4406 %	104.8996 %	64.8989 %	80.5843 %	100.9157 %	77.8383 %
Concentration per Run 1	0.1599 ppm	89.7650 %	103.9797 %	64.9841 %	80.6220 %	100.6323 %	78.0152 %
Concentration per Run 2	0.1598 ppm	90.6536 %	105.4763 %	64.8220 %	80.8124 %	101.3572 %	77.8489 %
Concentration per Run 3	0.1587 ppm	90.9032 %	105.2428 %	64.8906 %	80.3185 %	100.7577 %	77.6508 %
Concentration RSD	0.4 %	0.7 %	0.8 %	0.1 %	0.3 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2472821-01 WG2011473
Analysis started at: 12/20/2024 7:14:44 PM
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	0.0000 ppm	0.2447 ppm	0.0309 ppm	0.4336 ppm	0.9153 ppm	0.0000 ppm	139.9432 ppm
Concentration per Run 1	-0.0001 ppm	0.2485 ppm	0.0314 ppm	0.4348 ppm	0.9213 ppm	0.0000 ppm	140.2471 ppm
Concentration per Run 2	0.0001 ppm	0.2412 ppm	0.0319 ppm	0.4348 ppm	0.9081 ppm	0.0001 ppm	139.7460 ppm
Concentration per Run 3	-0.0001 ppm	0.2444 ppm	0.0293 ppm	0.4311 ppm	0.9165 ppm	0.0000 ppm	139.8363 ppm
Concentration RSD	186.6 %	1.5 %	4.4 %	0.5 %	0.7 %	46.1 %	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	-0.0008 ppm	0.0003 ppm	0.0002 ppm	0.0019 ppm	12.9829 ppm	5.2528 ppm	0.0179 ppm
Concentration per Run 1	-0.0008 ppm	0.0003 ppm	0.0001 ppm	0.0017 ppm	13.0578 ppm	5.2586 ppm	0.0184 ppm
Concentration per Run 2	-0.0008 ppm	0.0005 ppm	0.0002 ppm	0.0021 ppm	12.8750 ppm	5.2280 ppm	0.0177 ppm
Concentration per Run 3	-0.0007 ppm	0.0002 ppm	0.0004 ppm	0.0020 ppm	13.0159 ppm	5.2720 ppm	0.0176 ppm
Concentration RSD	3.3 %	41.9 %	74.1 %	11.7 %	0.7 %	0.4 %	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	41.8772 ppm	1.5251 ppm	0.0001 ppm	25.6453 ppm	0.0022 ppm	0.0096 ppm	0.0026 ppm
Concentration per Run 1	42.2471 ppm	1.5297 ppm	0.0004 ppm	25.7792 ppm	0.0019 ppm	0.0098 ppm	0.0026 ppm
Concentration per Run 2	41.8774 ppm	1.5174 ppm	0.0000 ppm	25.4568 ppm	0.0027 ppm	0.0095 ppm	0.0026 ppm
Concentration per Run 3	41.5070 ppm	1.5281 ppm	-0.0001 ppm	25.6998 ppm	0.0021 ppm	0.0095 ppm	0.0025 ppm
Concentration RSD	0.9 %	0.4 %	272.7 %	0.7 %	19.9 %	1.7 %	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	0.0016 ppm	15.7332 ppm	0.0008 ppm	0.3378 ppm	0.0090 ppm	-0.0025 ppm	0.0019 ppm
Concentration per Run 1	0.0024 ppm	15.8205 ppm	0.0009 ppm	0.3394 ppm	0.0090 ppm	-0.0024 ppm	0.0020 ppm
Concentration per Run 2	0.0004 ppm	15.7451 ppm	0.0007 ppm	0.3343 ppm	0.0090 ppm	-0.0032 ppm	0.0020 ppm
Concentration per Run 3	0.0019 ppm	15.6340 ppm	0.0009 ppm	0.3396 ppm	0.0089 ppm	-0.0019 ppm	0.0019 ppm
Concentration RSD	68.9 %	0.6 %	16.9 %	0.9 %	0.5 %	25.2 %	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	0.0025 ppm	95.2391 %	101.1619 %	81.7040 %	86.8120 %	98.0818 %	86.1756 %
Concentration per Run 1	0.0026 ppm	94.4154 %	100.9083 %	81.4832 %	87.0668 %	98.0729 %	86.2709 %
Concentration per Run 2	0.0024 ppm	95.1809 %	101.4193 %	81.4339 %	86.6980 %	98.2047 %	86.1493 %
Concentration per Run 3	0.0026 ppm	96.1210 %	101.1581 %	82.1950 %	86.6712 %	97.9679 %	86.1065 %
Concentration RSD	5.1 %	0.9 %	0.3 %	0.5 %	0.3 %	0.1 %	0.1 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: WG2011473-3 WG2011473
Analysis started at: 12/20/2024 7:19:10 PM
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	0.0538 ppm	2.4485 ppm	0.1655 ppm	1.4478 ppm	3.0064 ppm	0.0515 ppm	151.6741 ppm
Concentration per Run 1	0.0546 ppm	2.4617 ppm	0.1648 ppm	1.4705 ppm	3.0039 ppm	0.0517 ppm	152.2695 ppm
Concentration per Run 2	0.0537 ppm	2.4383 ppm	0.1665 ppm	1.4436 ppm	2.9981 ppm	0.0512 ppm	150.7176 ppm
Concentration per Run 3	0.0530 ppm	2.4455 ppm	0.1651 ppm	1.4294 ppm	3.0172 ppm	0.0517 ppm	152.0352 ppm
Concentration RSD	1.5 %	0.5 %	0.5 %	1.4 %	0.3 %	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	0.0485 ppm	0.4879 ppm	0.1985 ppm	0.2787 ppm	14.2749 ppm	17.0086 ppm	0.0187 ppm
Concentration per Run 1	0.0495 ppm	0.4955 ppm	0.2012 ppm	0.2826 ppm	14.3442 ppm	17.0667 ppm	0.0196 ppm
Concentration per Run 2	0.0485 ppm	0.4887 ppm	0.1991 ppm	0.2780 ppm	14.1627 ppm	16.8767 ppm	0.0180 ppm
Concentration per Run 3	0.0476 ppm	0.4796 ppm	0.1952 ppm	0.2754 ppm	14.3178 ppm	17.0823 ppm	0.0184 ppm
Concentration RSD	1.9 %	1.6 %	1.5 %	1.3 %	0.7 %	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	52.4790 ppm	2.0339 ppm	0.8607 ppm	36.4353 ppm	0.4760 ppm	0.5666 ppm	0.4894 ppm
Concentration per Run 1	53.2842 ppm	2.0428 ppm	0.8654 ppm	36.3342 ppm	0.4843 ppm	0.5669 ppm	0.4961 ppm
Concentration per Run 2	52.5214 ppm	2.0216 ppm	0.8557 ppm	36.3882 ppm	0.4760 ppm	0.5675 ppm	0.4893 ppm
Concentration per Run 3	51.6313 ppm	2.0373 ppm	0.8610 ppm	36.5836 ppm	0.4679 ppm	0.5654 ppm	0.4828 ppm
Concentration RSD	1.6 %	0.5 %	0.6 %	0.4 %	1.7 %	0.2 %	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	0.1379 ppm	17.1497 ppm	0.9301 ppm	1.3641 ppm	1.0295 ppm	0.1243 ppm	0.5225 ppm
Concentration per Run 1	0.1402 ppm	17.4408 ppm	0.9458 ppm	1.3639 ppm	1.0425 ppm	0.1228 ppm	0.5285 ppm
Concentration per Run 2	0.1372 ppm	17.0884 ppm	0.9296 ppm	1.3594 ppm	1.0295 ppm	0.1251 ppm	0.5239 ppm
Concentration per Run 3	0.1363 ppm	16.9200 ppm	0.9149 ppm	1.3689 ppm	1.0165 ppm	0.1248 ppm	0.5152 ppm
Concentration RSD	1.5 %	1.5 %	1.7 %	0.3 %	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	0.4630 ppm	95.8584 %	101.7005 %	79.0612 %	86.0737 %	97.9571 %	85.3998 %
Concentration per Run 1	0.4713 ppm	94.8555 %	101.2058 %	78.8770 %	86.0082 %	98.3526 %	85.5091 %
Concentration per Run 2	0.4633 ppm	95.6849 %	102.1211 %	78.6709 %	85.9339 %	98.0113 %	85.1466 %
Concentration per Run 3	0.4542 ppm	97.0346 %	101.7745 %	79.6359 %	86.2790 %	97.5073 %	85.5437 %
Concentration RSD	1.8 %	1.1 %	0.5 %	0.6 %	0.2 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: WG2011473-4 WG2011473
Analysis started at: 12/20/2024 7:23:37 PM
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	0.0001 ppm	0.2384 ppm	0.0298 ppm	0.4411 ppm	0.9244 ppm	0.0000 ppm	140.8697 ppm
Concentration per Run 1	-0.0001 ppm	0.2417 ppm	0.0299 ppm	0.4456 ppm	0.9254 ppm	0.0000 ppm	140.1034 ppm
Concentration per Run 2	0.0002 ppm	0.2395 ppm	0.0283 ppm	0.4411 ppm	0.9219 ppm	0.0000 ppm	141.3637 ppm
Concentration per Run 3	0.0002 ppm	0.2341 ppm	0.0313 ppm	0.4365 ppm	0.9261 ppm	0.0000 ppm	141.1422 ppm
Concentration RSD	134.0 %	1.7 %	5.0 %	1.0 %	0.2 %	80.3 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0007 ppm	0.0002 ppm	0.0004 ppm	0.0019 ppm	13.1134 ppm	5.1625 ppm	0.0178 ppm
Concentration per Run 1	-0.0008 ppm	0.0000 ppm	0.0003 ppm	0.0019 ppm	13.0659 ppm	5.2147 ppm	0.0183 ppm
Concentration per Run 2	-0.0006 ppm	0.0004 ppm	0.0004 ppm	0.0019 ppm	13.1412 ppm	5.1380 ppm	0.0172 ppm
Concentration per Run 3	-0.0007 ppm	0.0001 ppm	0.0005 ppm	0.0019 ppm	13.1331 ppm	5.1348 ppm	0.0179 ppm
Concentration RSD	13.6 %	117.6 %	17.2 %	1.5 %	0.3 %	0.9 %	3.1 %

	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	42.5941 ppm	1.5377 ppm	0.0046 ppm	24.9439 ppm	0.0017 ppm	0.0096 ppm	0.0039 ppm
Concentration per Run 1	43.1353 ppm	1.5322 ppm	0.0046 ppm	24.9564 ppm	0.0013 ppm	0.0091 ppm	0.0037 ppm
Concentration per Run 2	42.5639 ppm	1.5382 ppm	0.0047 ppm	24.9739 ppm	0.0016 ppm	0.0101 ppm	0.0047 ppm
Concentration per Run 3	42.0830 ppm	1.5426 ppm	0.0045 ppm	24.9014 ppm	0.0021 ppm	0.0096 ppm	0.0033 ppm
Concentration RSD	1.2 %	0.3 %	2.7 %	0.2 %	24.3 %	5.5 %	18.9 %

	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	0.0001 ppm	16.1428 ppm	0.0033 ppm	0.3415 ppm	0.0091 ppm	-0.0018 ppm	0.0021 ppm
Concentration per Run 1	-0.0002 ppm	16.3332 ppm	0.0040 ppm	0.3418 ppm	0.0091 ppm	-0.0018 ppm	0.0021 ppm
Concentration per Run 2	0.0020 ppm	16.1094 ppm	0.0030 ppm	0.3403 ppm	0.0091 ppm	-0.0017 ppm	0.0020 ppm
Concentration per Run 3	-0.0016 ppm	15.9859 ppm	0.0030 ppm	0.3426 ppm	0.0089 ppm	-0.0019 ppm	0.0023 ppm
Concentration RSD	2,789.2 %	1.1 %	16.5 %	0.3 %	1.5 %	4.7 %	7.3 %

	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	0.0027 ppm	94.6465 %	100.8762 %	81.7065 %	86.2705 %	97.8418 %	86.5654 %
Concentration per Run 1	0.0027 ppm	93.6791 %	101.3236 %	82.2626 %	86.4018 %	98.7261 %	87.2186 %
Concentration per Run 2	0.0028 ppm	94.7645 %	100.3512 %	81.1955 %	86.3377 %	97.2589 %	86.2882 %
Concentration per Run 3	0.0026 ppm	95.4958 %	100.9539 %	81.6615 %	86.0719 %	97.5405 %	86.1893 %
Concentration RSD	2.8 %	1.0 %	0.5 %	0.7 %	0.2 %	0.8 %	0.7 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: WG2011473-5 WG2011473
Analysis started at: 12/20/2024 7:28:04 PM
Rack 1
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0498 ppm	2.1544 ppm	0.1512 ppm	1.3940 ppm	2.7852 ppm	0.0471 ppm	142.0427 ppm
Concentration per Run 1	0.0503 ppm	2.1611 ppm	0.1553 ppm	1.4171 ppm	2.8024 ppm	0.0472 ppm	142.3138 ppm
Concentration per Run 2	0.0493 ppm	2.1430 ppm	0.1509 ppm	1.3822 ppm	2.7703 ppm	0.0471 ppm	142.1449 ppm
Concentration per Run 3	0.0497 ppm	2.1591 ppm	0.1473 ppm	1.3826 ppm	2.7829 ppm	0.0470 ppm	141.6694 ppm
Concentration RSD	1.0 %	0.5 %	2.7 %	1.4 %	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	0.0452 ppm	0.4510 ppm	0.1846 ppm	0.2560 ppm	13.4008 ppm	16.0566 ppm	0.0177 ppm
Concentration per Run 1	0.0459 ppm	0.4597 ppm	0.1856 ppm	0.2588 ppm	13.4372 ppm	16.1118 ppm	0.0185 ppm
Concentration per Run 2	0.0449 ppm	0.4474 ppm	0.1855 ppm	0.2555 ppm	13.4387 ppm	15.9136 ppm	0.0171 ppm
Concentration per Run 3	0.0449 ppm	0.4461 ppm	0.1827 ppm	0.2537 ppm	13.3265 ppm	16.1443 ppm	0.0176 ppm
Concentration RSD	1.3 %	1.7 %	0.9 %	1.0 %	0.5 %	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	49.8294 ppm	1.9038 ppm	0.8138 ppm	34.5997 ppm	0.4550 ppm	0.5250 ppm	0.3537 ppm
Concentration per Run 1	50.5083 ppm	1.9069 ppm	0.8139 ppm	34.6377 ppm	0.4618 ppm	0.5273 ppm	0.3561 ppm
Concentration per Run 2	49.6037 ppm	1.9065 ppm	0.8040 ppm	34.1933 ppm	0.4498 ppm	0.5245 ppm	0.3485 ppm
Concentration per Run 3	49.3762 ppm	1.8981 ppm	0.8235 ppm	34.9682 ppm	0.4533 ppm	0.5232 ppm	0.3564 ppm
Concentration RSD	1.2 %	0.3 %	1.2 %	1.1 %	1.3 %	0.4 %	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	0.1244 ppm	15.9267 ppm	0.9033 ppm	1.2924 ppm	0.9883 ppm	0.1141 ppm	0.4849 ppm
Concentration per Run 1	0.1248 ppm	16.1155 ppm	0.9117 ppm	1.2976 ppm	0.9988 ppm	0.1149 ppm	0.4919 ppm
Concentration per Run 2	0.1252 ppm	15.8327 ppm	0.8938 ppm	1.2865 ppm	0.9841 ppm	0.1148 ppm	0.4831 ppm
Concentration per Run 3	0.1231 ppm	15.8318 ppm	0.9046 ppm	1.2930 ppm	0.9820 ppm	0.1125 ppm	0.4797 ppm
Concentration RSD	0.9 %	1.0 %	1.0 %	0.4 %	0.9 %	1.2 %	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	0.4426 ppm	95.7479 %	102.5119 %	80.0285 %	86.0866 %	98.0487 %	85.9146 %
Concentration per Run 1	0.4495 ppm	95.0681 %	102.3097 %	79.7506 %	86.4934 %	98.1765 %	86.1414 %
Concentration per Run 2	0.4381 ppm	95.7604 %	102.3282 %	79.7625 %	86.0243 %	97.6405 %	85.5519 %
Concentration per Run 3	0.4402 ppm	96.4153 %	102.8979 %	80.5723 %	85.7421 %	98.3293 %	86.0504 %
Concentration RSD	1.4 %	0.7 %	0.3 %	0.6 %	0.4 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: WG2011473-6D5 WG2011473
Analysis started at: 12/20/2024 7:32:29 PM
Rack 1
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0488 ppm	0.0069 ppm	0.0855 ppm	0.1817 ppm	0.0000 ppm	28.2442 ppm
Concentration per Run 1	0.0000 ppm	0.0485 ppm	0.0077 ppm	0.0870 ppm	0.1801 ppm	0.0000 ppm	28.3377 ppm
Concentration per Run 2	0.0004 ppm	0.0457 ppm	0.0073 ppm	0.0863 ppm	0.1817 ppm	0.0000 ppm	28.1826 ppm
Concentration per Run 3	0.0001 ppm	0.0520 ppm	0.0059 ppm	0.0831 ppm	0.1834 ppm	0.0000 ppm	28.2123 ppm
Concentration RSD	148.2 %	6.5 %	13.7 %	2.4 %	0.9 %	1,074.3 %	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	-0.0001 ppm	-0.0004 ppm	0.0001 ppm	0.0007 ppm	2.6071 ppm	0.9874 ppm	0.0040 ppm
Concentration per Run 1	-0.0002 ppm	-0.0006 ppm	0.0000 ppm	0.0007 ppm	2.5998 ppm	0.9833 ppm	0.0042 ppm
Concentration per Run 2	-0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0008 ppm	2.6091 ppm	0.9795 ppm	0.0039 ppm
Concentration per Run 3	-0.0001 ppm	-0.0002 ppm	0.0003 ppm	0.0007 ppm	2.6124 ppm	0.9994 ppm	0.0038 ppm
Concentration RSD	27.2 %	48.3 %	137.6 %	7.1 %	0.2 %	1.1 %	5.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.4761 ppm	0.3076 ppm	0.0077 ppm	4.7551 ppm	0.0003 ppm	0.0017 ppm	0.0147 ppm
Concentration per Run 1	8.5576 ppm	0.3075 ppm	0.0077 ppm	4.7439 ppm	0.0007 ppm	0.0020 ppm	0.0163 ppm
Concentration per Run 2	8.5174 ppm	0.3071 ppm	0.0078 ppm	4.7627 ppm	0.0003 ppm	0.0011 ppm	0.0131 ppm
Concentration per Run 3	8.3532 ppm	0.3081 ppm	0.0076 ppm	4.7587 ppm	-0.0001 ppm	0.0022 ppm	0.0147 ppm
Concentration RSD	1.3 %	0.2 %	1.1 %	0.2 %	152.4 %	33.0 %	10.9 %

	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	3.0598 ppm	0.0085 ppm	0.0665 ppm	0.0019 ppm	-0.0005 ppm	0.0005 ppm
Concentration per Run 1	-0.0003 ppm	3.0705 ppm	0.0088 ppm	0.0660 ppm	0.0019 ppm	-0.0003 ppm	0.0005 ppm
Concentration per Run 2	0.0004 ppm	3.0726 ppm	0.0089 ppm	0.0666 ppm	0.0018 ppm	-0.0010 ppm	0.0005 ppm
Concentration per Run 3	0.0010 ppm	3.0362 ppm	0.0080 ppm	0.0669 ppm	0.0018 ppm	-0.0002 ppm	0.0006 ppm
Concentration RSD	182.6 %	0.7 %	6.0 %	0.7 %	3.9 %	84.4 %	14.7 %

	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	0.0004 ppm	101.0707 %	103.8773 %	92.9551 %	90.5047 %	99.6029 %	91.4958 %
Concentration per Run 1	0.0003 ppm	100.4000 %	104.1807 %	92.3684 %	90.9431 %	100.0041 %	91.4834 %
Concentration per Run 2	0.0003 ppm	100.6316 %	103.9657 %	92.9945 %	89.8931 %	99.6485 %	91.4105 %
Concentration per Run 3	0.0004 ppm	102.1806 %	103.4854 %	93.5025 %	90.6780 %	99.1562 %	91.5935 %
Concentration RSD	23.7 %	1.0 %	0.3 %	0.6 %	0.6 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: CCV
Analysis started at: 12/20/2024 7:36:54 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	0.4827 ppm	0.4711 ppm	0.4490 ppm	0.4724 ppm	0.4884 ppm	0.4887 ppm	0.4623 ppm
Concentration per Run 1	0.4842 ppm	0.4740 ppm	0.4490 ppm	0.4773 ppm	0.4887 ppm	0.4900 ppm	0.4602 ppm
Concentration per Run 2	0.4843 ppm	0.4707 ppm	0.4480 ppm	0.4689 ppm	0.4908 ppm	0.4899 ppm	0.4667 ppm
Concentration per Run 3	0.4797 ppm	0.4687 ppm	0.4501 ppm	0.4712 ppm	0.4857 ppm	0.4861 ppm	0.4600 ppm
Recovery Percentage 1	96.546 %	94.229 %	89.804 %	94.487 %	97.684 %	97.737 %	92.456 %
Concentration RSD	0.5 %	0.6 %	0.2 %	0.9 %	0.5 %	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	0.4607 ppm	0.4876 ppm	0.4731 ppm	0.4858 ppm	0.4829 ppm	5.2337 ppm	0.5087 ppm
Concentration per Run 1	0.4628 ppm	0.4890 ppm	0.4757 ppm	0.4895 ppm	0.4846 ppm	5.2900 ppm	0.5166 ppm
Concentration per Run 2	0.4617 ppm	0.4890 ppm	0.4733 ppm	0.4844 ppm	0.4828 ppm	5.2337 ppm	0.5036 ppm
Concentration per Run 3	0.4577 ppm	0.4847 ppm	0.4704 ppm	0.4834 ppm	0.4813 ppm	5.1773 ppm	0.5059 ppm
Recovery Percentage 1	92.149 %	97.516 %	94.625 %	97.153 %	96.580 %	104.673 %	101.742 %
Concentration RSD	0.6 %	0.5 %	0.6 %	0.7 %	0.3 %	1.1 %	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	0.4797 ppm	0.4667 ppm	0.4849 ppm	10.0838 ppm	0.4857 ppm	0.4713 ppm	0.4899 ppm
Concentration per Run 1	0.4799 ppm	0.4670 ppm	0.4850 ppm	10.0799 ppm	0.4879 ppm	0.4750 ppm	0.4941 ppm
Concentration per Run 2	0.4822 ppm	0.4682 ppm	0.4828 ppm	10.1374 ppm	0.4847 ppm	0.4694 ppm	0.4863 ppm
Concentration per Run 3	0.4771 ppm	0.4650 ppm	0.4870 ppm	10.0341 ppm	0.4845 ppm	0.4696 ppm	0.4894 ppm
Recovery Percentage 1	95.949 %	93.350 %	96.986 %	100.838 %	97.140 %	94.262 %	97.982 %
Concentration RSD	0.5 %	0.3 %	0.4 %	0.5 %	0.4 %	0.7 %	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	0.4545 ppm	5.3851 ppm	0.4986 ppm	0.5114 ppm	0.4782 ppm	0.4709 ppm	0.4740 ppm
Concentration per Run 1	0.4553 ppm	5.3971 ppm	0.5024 ppm	0.5104 ppm	0.4789 ppm	0.4710 ppm	0.4777 ppm
Concentration per Run 2	0.4524 ppm	5.3944 ppm	0.4965 ppm	0.5138 ppm	0.4792 ppm	0.4699 ppm	0.4730 ppm
Concentration per Run 3	0.4559 ppm	5.3637 ppm	0.4968 ppm	0.5099 ppm	0.4764 ppm	0.4717 ppm	0.4712 ppm
Recovery Percentage 1	90.904 %	102.573 %	99.715 %	102.274 %	95.630 %	94.172 %	94.799 %
Concentration RSD	0.4 %	0.3 %	0.7 %	0.4 %	0.3 %	0.2 %	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	0.4693 ppm	104.4829 %	104.6404 %	95.9769 %	90.8066 %	99.2521 %	92.3000 %
Concentration per Run 1	0.4714 ppm	103.9626 %	104.6926 %	95.6153 %	91.0404 %	99.2294 %	92.3314 %
Concentration per Run 2	0.4704 ppm	104.1974 %	104.6766 %	96.2415 %	90.2240 %	99.2791 %	92.3100 %
Concentration per Run 3	0.4661 ppm	105.2888 %	104.5519 %	96.0738 %	91.1556 %	99.2478 %	92.2586 %
Recovery Percentage 1	93.861 %						
Concentration RSD	0.6 %	0.7 %	0.1 %	0.3 %	0.6 %	0.0 %	0.0 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: CCB
Analysis started at: 12/20/2024 7:41:19 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	0.0023 ppm	0.0011 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0014 ppm
Concentration per Run 1	0.0001 ppm	0.0011 ppm	0.0009 ppm	0.0007 ppm	0.0001 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 2	0.0001 ppm	0.0065 ppm	0.0008 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0009 ppm
Concentration per Run 3	-0.0001 ppm	-0.0007 ppm	0.0016 ppm	-0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0026 ppm
Recovery Percentage 1	0.585 %	2.290 %	22.210 %	0.295 %	1.243 %	0.772 %	1.408 %
Concentration RSD	447.2 %	164.4 %	41.1 %	686.0 %	25.1 %	37.7 %	72.1 %

	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	0.0005 ppm	0.0009 ppm	0.0145 ppm	0.0006 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	0.0004 ppm	0.0007 ppm	0.0011 ppm	0.0154 ppm	0.0007 ppm
Concentration per Run 2	0.0000 ppm	-0.0006 ppm	-0.0001 ppm	0.0004 ppm	0.0011 ppm	0.0157 ppm	0.0004 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0005 ppm	0.0004 ppm	0.0124 ppm	0.0008 ppm
Recovery Percentage 1	0.532 %	-3.334 %	0.946 %	5.348 %	1.752 %	0.581 %	6.358 %
Concentration RSD	127.9 %	63.6 %	252.3 %	34.2 %	51.6 %	12.6 %	30.3 %

	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	-0.0006 ppm	0.0000 ppm	0.0027 ppm	0.0056 ppm	0.0002 ppm	0.0005 ppm	0.0026 ppm
Concentration per Run 1	-0.0003 ppm	-0.0001 ppm	0.0028 ppm	0.0051 ppm	0.0002 ppm	0.0010 ppm	0.0032 ppm
Concentration per Run 2	-0.0012 ppm	0.0001 ppm	0.0029 ppm	0.0050 ppm	0.0003 ppm	0.0010 ppm	0.0039 ppm
Concentration per Run 3	-0.0002 ppm	0.0000 ppm	0.0023 ppm	0.0068 ppm	0.0001 ppm	-0.0006 ppm	0.0008 ppm
Recovery Percentage 1	-0.570 %	0.082 %	5.329 %	0.282 %	0.919 %	4.620 %	5.241 %
Concentration RSD	92.1 %	947.0 %	11.2 %	17.3 %	49.9 %	193.9 %	63.4 %

	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	-0.0015 ppm	0.0013 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 1	-0.0011 ppm	-0.0018 ppm	0.0006 ppm	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 2	-0.0001 ppm	-0.0015 ppm	0.0013 ppm	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0002 ppm
Concentration per Run 3	0.0001 ppm	-0.0011 ppm	0.0020 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	-0.0002 ppm
Recovery Percentage 1	-3.995 %	-0.295 %	2.594 %	0.270 %	-1.485 %	-0.511 %	0.166 %
Concentration RSD	162.6 %	23.4 %	53.8 %	95.6 %	48.7 %	308.3 %	1,179.6 %

	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	0.0005 ppm	101.9560 %	103.7507 %	97.8390 %	93.5060 %	100.0136 %	94.1142 %
Concentration per Run 1	0.0004 ppm	100.8556 %	102.9943 %	96.8770 %	93.5585 %	99.8172 %	93.9951 %
Concentration per Run 2	0.0005 ppm	102.5480 %	104.5830 %	98.0497 %	94.1436 %	100.3699 %	94.0113 %
Concentration per Run 3	0.0008 ppm	102.4645 %	103.6748 %	98.5902 %	92.8159 %	99.8537 %	94.3363 %
Recovery Percentage 1	10.975 %						
Concentration RSD	39.5 %	0.9 %	0.8 %	0.9 %	0.7 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2472975-01 WG2011473
Analysis started at: 12/20/2024 7:47:55 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	0.0000 ppm	0.2533 ppm	0.0023 ppm	0.0752 ppm	0.0162 ppm	0.0000 ppm	26.5821 ppm
Concentration per Run 1	0.0001 ppm	0.2573 ppm	0.0029 ppm	0.0747 ppm	0.0161 ppm	0.0000 ppm	26.6942 ppm
Concentration per Run 2	-0.0002 ppm	0.2513 ppm	0.0020 ppm	0.0759 ppm	0.0163 ppm	0.0000 ppm	26.6161 ppm
Concentration per Run 3	0.0001 ppm	0.2513 ppm	0.0021 ppm	0.0751 ppm	0.0161 ppm	0.0000 ppm	26.4360 ppm
Concentration RSD	2,290.2 %	1.4 %	20.4 %	0.9 %	0.5 %	247.9 %	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	-0.0001 ppm	0.0007 ppm	0.0009 ppm	0.0054 ppm	0.2994 ppm	15.0985 ppm	0.0020 ppm
Concentration per Run 1	-0.0001 ppm	0.0009 ppm	0.0007 ppm	0.0057 ppm	0.3033 ppm	15.1666 ppm	0.0018 ppm
Concentration per Run 2	-0.0002 ppm	0.0006 ppm	0.0011 ppm	0.0054 ppm	0.2988 ppm	15.0111 ppm	0.0026 ppm
Concentration per Run 3	-0.0001 ppm	0.0008 ppm	0.0011 ppm	0.0052 ppm	0.2960 ppm	15.1179 ppm	0.0016 ppm
Concentration RSD	58.6 %	20.2 %	24.6 %	4.2 %	1.2 %	0.5 %	26.0 %

	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	4.0450 ppm	0.0541 ppm	0.0016 ppm	46.5611 ppm	0.0050 ppm	0.0018 ppm	-0.0006 ppm
Concentration per Run 1	4.0870 ppm	0.0546 ppm	0.0011 ppm	46.9258 ppm	0.0052 ppm	0.0016 ppm	-0.0019 ppm
Concentration per Run 2	4.0497 ppm	0.0542 ppm	0.0017 ppm	45.9207 ppm	0.0048 ppm	0.0011 ppm	0.0019 ppm
Concentration per Run 3	3.9982 ppm	0.0535 ppm	0.0019 ppm	46.8369 ppm	0.0051 ppm	0.0027 ppm	-0.0019 ppm
Concentration RSD	1.1 %	1.0 %	25.5 %	1.2 %	4.7 %	46.5 %	355.1 %

	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	1.6744 ppm	-0.0005 ppm	0.0892 ppm	0.0120 ppm	0.0003 ppm	0.0011 ppm
Concentration per Run 1	-0.0008 ppm	1.6963 ppm	-0.0009 ppm	0.0896 ppm	0.0124 ppm	-0.0002 ppm	0.0011 ppm
Concentration per Run 2	0.0005 ppm	1.6691 ppm	-0.0003 ppm	0.0891 ppm	0.0119 ppm	0.0002 ppm	0.0012 ppm
Concentration per Run 3	-0.0037 ppm	1.6578 ppm	-0.0002 ppm	0.0888 ppm	0.0117 ppm	0.0009 ppm	0.0009 ppm
Concentration RSD	162.4 %	1.2 %	77.8 %	0.4 %	3.1 %	194.9 %	12.1 %

	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	0.0282 ppm	96.0100 %	101.3637 %	88.1808 %	89.4305 %	98.9974 %	90.1171 %
Concentration per Run 1	0.0285 ppm	94.9657 %	100.7841 %	87.6507 %	89.3426 %	98.9868 %	90.1676 %
Concentration per Run 2	0.0283 ppm	96.1229 %	101.1745 %	87.9975 %	89.9650 %	98.8137 %	90.0969 %
Concentration per Run 3	0.0279 ppm	96.9413 %	102.1324 %	88.8941 %	88.9837 %	99.1917 %	90.0869 %
Concentration RSD	1.0 %	1.0 %	0.7 %	0.7 %	0.6 %	0.2 %	0.0 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2472975-02 WG2011473
Analysis started at: 12/20/2024 7:52:28 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	0.0000 ppm	3.9580 ppm	0.0174 ppm	0.0383 ppm	0.0310 ppm	0.0002 ppm	19.9133 ppm
Concentration per Run 1	0.0001 ppm	3.9613 ppm	0.0176 ppm	0.0393 ppm	0.0309 ppm	0.0002 ppm	19.9759 ppm
Concentration per Run 2	-0.0001 ppm	3.9710 ppm	0.0165 ppm	0.0378 ppm	0.0311 ppm	0.0002 ppm	19.8596 ppm
Concentration per Run 3	0.0000 ppm	3.9417 ppm	0.0180 ppm	0.0377 ppm	0.0310 ppm	0.0002 ppm	19.9043 ppm
Concentration RSD	376.0 %	0.4 %	4.6 %	2.4 %	0.4 %	10.3 %	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	0.0000 ppm	0.0037 ppm	0.0078 ppm	0.0164 ppm	4.0107 ppm	49.0876 ppm	0.0074 ppm
Concentration per Run 1	0.0000 ppm	0.0034 ppm	0.0078 ppm	0.0165 ppm	4.0067 ppm	48.8573 ppm	0.0080 ppm
Concentration per Run 2	0.0001 ppm	0.0040 ppm	0.0080 ppm	0.0164 ppm	4.0196 ppm	49.4950 ppm	0.0071 ppm
Concentration per Run 3	0.0000 ppm	0.0037 ppm	0.0078 ppm	0.0163 ppm	4.0058 ppm	48.9103 ppm	0.0071 ppm
Concentration RSD	120.5 %	8.5 %	1.4 %	0.5 %	0.2 %	0.7 %	6.6 %

	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	6.8575 ppm	0.3635 ppm	0.0010 ppm	21.6804 ppm	0.0138 ppm	0.0174 ppm	0.0002 ppm
Concentration per Run 1	6.9365 ppm	0.3637 ppm	0.0010 ppm	21.7824 ppm	0.0141 ppm	0.0183 ppm	-0.0017 ppm
Concentration per Run 2	6.8848 ppm	0.3641 ppm	0.0010 ppm	21.8638 ppm	0.0136 ppm	0.0173 ppm	0.0018 ppm
Concentration per Run 3	6.7512 ppm	0.3628 ppm	0.0011 ppm	21.3950 ppm	0.0138 ppm	0.0166 ppm	0.0005 ppm
Concentration RSD	1.4 %	0.2 %	1.8 %	1.2 %	1.9 %	5.0 %	842.4 %

	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	6.2476 ppm	0.0000 ppm	0.0688 ppm	0.1428 ppm	-0.0002 ppm	0.0082 ppm
Concentration per Run 1	-0.0012 ppm	6.3263 ppm	0.0005 ppm	0.0686 ppm	0.1447 ppm	-0.0003 ppm	0.0085 ppm
Concentration per Run 2	-0.0020 ppm	6.2426 ppm	-0.0002 ppm	0.0692 ppm	0.1429 ppm	0.0001 ppm	0.0081 ppm
Concentration per Run 3	0.0002 ppm	6.1738 ppm	-0.0002 ppm	0.0687 ppm	0.1409 ppm	-0.0005 ppm	0.0079 ppm
Concentration RSD	115.1 %	1.2 %	1,187.6 %	0.5 %	1.3 %	145.9 %	3.6 %

	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	0.0494 ppm	95.9838 %	102.5054 %	87.0740 %	90.5682 %	101.5850 %	90.8225 %
Concentration per Run 1	0.0499 ppm	95.1022 %	102.2689 %	85.9651 %	90.9331 %	101.7802 %	90.2487 %
Concentration per Run 2	0.0498 ppm	95.5953 %	102.7567 %	87.3768 %	89.9273 %	101.9552 %	91.2001 %
Concentration per Run 3	0.0485 ppm	97.2541 %	102.4907 %	87.8803 %	90.8441 %	101.0195 %	91.0186 %
Concentration RSD	1.5 %	1.2 %	0.2 %	1.1 %	0.6 %	0.5 %	0.6 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473323-01 WG2011473
Analysis started at: 12/20/2024 7:56:54 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	0.0962 ppm	0.0022 ppm	0.0079 ppm	0.0667 ppm	0.0000 ppm	22.8100 ppm
Concentration per Run 1	0.0000 ppm	0.0990 ppm	0.0007 ppm	0.0080 ppm	0.0670 ppm	0.0000 ppm	22.7337 ppm
Concentration per Run 2	0.0000 ppm	0.0966 ppm	0.0025 ppm	0.0082 ppm	0.0667 ppm	0.0000 ppm	22.8904 ppm
Concentration per Run 3	-0.0002 ppm	0.0930 ppm	0.0035 ppm	0.0076 ppm	0.0663 ppm	0.0000 ppm	22.8058 ppm
Concentration RSD	130.1 %	3.1 %	64.7 %	4.3 %	0.6 %	61.7 %	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	0.0002 ppm	0.0004 ppm	0.0001 ppm	0.0042 ppm	0.0919 ppm	6.5499 ppm	0.0015 ppm
Concentration per Run 1	0.0003 ppm	0.0005 ppm	0.0001 ppm	0.0044 ppm	0.0925 ppm	6.5848 ppm	0.0016 ppm
Concentration per Run 2	0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0039 ppm	0.0933 ppm	6.5703 ppm	0.0019 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0043 ppm	0.0899 ppm	6.4946 ppm	0.0009 ppm
Concentration RSD	55.5 %	64.2 %	46.1 %	7.1 %	1.9 %	0.7 %	36.6 %

	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	6.6928 ppm	0.0265 ppm	0.0001 ppm	122.0392 ppm	0.0028 ppm	0.0025 ppm	0.0013 ppm
Concentration per Run 1	6.7657 ppm	0.0266 ppm	-0.0002 ppm	121.6019 ppm	0.0032 ppm	0.0013 ppm	0.0014 ppm
Concentration per Run 2	6.7192 ppm	0.0266 ppm	0.0002 ppm	122.5025 ppm	0.0023 ppm	0.0033 ppm	0.0002 ppm
Concentration per Run 3	6.5936 ppm	0.0264 ppm	0.0002 ppm	122.0133 ppm	0.0029 ppm	0.0028 ppm	0.0023 ppm
Concentration RSD	1.3 %	0.5 %	311.3 %	0.4 %	17.2 %	41.4 %	82.6 %

	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	3.0668 ppm	0.0000 ppm	0.1396 ppm	0.0019 ppm	0.0006 ppm	0.0003 ppm
Concentration per Run 1	0.0007 ppm	3.1113 ppm	0.0009 ppm	0.1400 ppm	0.0019 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 2	-0.0009 ppm	3.0619 ppm	0.0000 ppm	0.1404 ppm	0.0018 ppm	0.0011 ppm	0.0003 ppm
Concentration per Run 3	-0.0026 ppm	3.0272 ppm	-0.0010 ppm	0.1385 ppm	0.0019 ppm	0.0007 ppm	0.0003 ppm
Concentration RSD	178.0 %	1.4 %	3,708.6 %	0.7 %	3.6 %	80.0 %	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	0.0112 ppm	91.9307 %	99.5443 %	83.5521 %	86.4580 %	97.8626 %	88.7414 %
Concentration per Run 1	0.0111 ppm	91.1822 %	99.5298 %	82.7776 %	87.1074 %	98.2706 %	88.8581 %
Concentration per Run 2	0.0114 ppm	91.9311 %	99.1835 %	83.3735 %	86.5688 %	97.3144 %	88.3825 %
Concentration per Run 3	0.0111 ppm	92.6788 %	99.9196 %	84.5051 %	85.6979 %	98.0029 %	88.9835 %
Concentration RSD	1.6 %	0.8 %	0.4 %	1.1 %	0.8 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473323-02 WG2011473
Analysis started at: 12/20/2024 8:01:22 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	0.0000 ppm	1.9420 ppm	0.0010 ppm	0.0191 ppm	0.0110 ppm	0.0001 ppm	5.6121 ppm
Concentration per Run 1	0.0001 ppm	1.9546 ppm	0.0011 ppm	0.0191 ppm	0.0110 ppm	0.0001 ppm	5.6627 ppm
Concentration per Run 2	-0.0002 ppm	1.9440 ppm	0.0007 ppm	0.0193 ppm	0.0110 ppm	0.0001 ppm	5.5987 ppm
Concentration per Run 3	0.0001 ppm	1.9273 ppm	0.0012 ppm	0.0189 ppm	0.0109 ppm	0.0001 ppm	5.5749 ppm
Concentration RSD	554.2 %	0.7 %	26.3 %	0.9 %	0.7 %	4.6 %	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	0.0005 ppm	0.0027 ppm	0.0052 ppm	2.0983 ppm	1.7892 ppm	0.0031 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	0.0030 ppm	0.0053 ppm	2.1112 ppm	1.7797 ppm	0.0030 ppm
Concentration per Run 2	0.0002 ppm	0.0005 ppm	0.0024 ppm	0.0052 ppm	2.0966 ppm	1.8171 ppm	0.0032 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0027 ppm	0.0052 ppm	2.0871 ppm	1.7707 ppm	0.0032 ppm
Concentration RSD	62.1 %	5.9 %	9.9 %	1.4 %	0.6 %	1.4 %	5.0 %

	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	1.5934 ppm	0.0241 ppm	0.0001 ppm	4.4831 ppm	0.0029 ppm	0.0007 ppm	0.0008 ppm
Concentration per Run 1	1.6249 ppm	0.0241 ppm	-0.0001 ppm	4.4930 ppm	0.0028 ppm	0.0011 ppm	0.0014 ppm
Concentration per Run 2	1.5902 ppm	0.0241 ppm	0.0002 ppm	4.5300 ppm	0.0027 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 3	1.5651 ppm	0.0240 ppm	0.0002 ppm	4.4263 ppm	0.0032 ppm	0.0009 ppm	0.0009 ppm
Concentration RSD	1.9 %	0.3 %	265.2 %	1.2 %	7.7 %	65.2 %	78.4 %

	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	-0.0019 ppm	5.6251 ppm	-0.0001 ppm	0.0561 ppm	0.0918 ppm	0.0004 ppm	0.0037 ppm
Concentration per Run 1	-0.0038 ppm	5.7124 ppm	0.0003 ppm	0.0562 ppm	0.0933 ppm	0.0003 ppm	0.0037 ppm
Concentration per Run 2	0.0000 ppm	5.6021 ppm	-0.0008 ppm	0.0566 ppm	0.0916 ppm	0.0009 ppm	0.0038 ppm
Concentration per Run 3	-0.0018 ppm	5.5608 ppm	0.0001 ppm	0.0557 ppm	0.0906 ppm	0.0000 ppm	0.0037 ppm
Concentration RSD	100.7 %	1.4 %	437.4 %	0.8 %	1.5 %	126.1 %	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	0.0047 ppm	97.9644 %	102.4544 %	93.0912 %	92.9865 %	101.5774 %	94.3633 %
Concentration per Run 1	0.0048 ppm	96.5163 %	102.1032 %	92.3132 %	92.6319 %	101.4946 %	94.4704 %
Concentration per Run 2	0.0049 ppm	97.9274 %	102.4229 %	93.2798 %	93.1340 %	101.9105 %	94.5404 %
Concentration per Run 3	0.0044 ppm	99.4495 %	102.8370 %	93.6806 %	93.1936 %	101.3272 %	94.0790 %
Concentration RSD	4.9 %	1.5 %	0.4 %	0.8 %	0.3 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473323-03 WG2011473
Analysis started at: 12/20/2024 8:05:47 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	0.1754 ppm	0.0006 ppm	0.0072 ppm	0.0115 ppm	0.0001 ppm	3.9198 ppm
Concentration per Run 1	-0.0001 ppm	0.1763 ppm	0.0007 ppm	0.0080 ppm	0.0116 ppm	0.0001 ppm	3.9252 ppm
Concentration per Run 2	-0.0001 ppm	0.1773 ppm	-0.0003 ppm	0.0074 ppm	0.0115 ppm	0.0001 ppm	3.9323 ppm
Concentration per Run 3	-0.0001 ppm	0.1727 ppm	0.0014 ppm	0.0062 ppm	0.0114 ppm	0.0001 ppm	3.9017 ppm
Concentration RSD	22.3 %	1.4 %	147.1 %	12.2 %	0.8 %	14.2 %	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	0.0001 ppm	0.0013 ppm	0.0001 ppm	0.0013 ppm	0.0663 ppm	0.3252 ppm	0.0017 ppm
Concentration per Run 1	0.0001 ppm	0.0011 ppm	0.0001 ppm	0.0013 ppm	0.0676 ppm	0.3275 ppm	0.0015 ppm
Concentration per Run 2	0.0001 ppm	0.0016 ppm	0.0001 ppm	0.0013 ppm	0.0660 ppm	0.3334 ppm	0.0022 ppm
Concentration per Run 3	0.0002 ppm	0.0012 ppm	0.0000 ppm	0.0012 ppm	0.0653 ppm	0.3146 ppm	0.0015 ppm
Concentration RSD	33.4 %	20.1 %	78.9 %	3.5 %	1.8 %	3.0 %	24.7 %

	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	0.6813 ppm	0.0127 ppm	-0.0003 ppm	3.1035 ppm	0.0021 ppm	0.0004 ppm	-0.0004 ppm
Concentration per Run 1	0.6903 ppm	0.0129 ppm	-0.0002 ppm	3.1193 ppm	0.0023 ppm	0.0001 ppm	0.0016 ppm
Concentration per Run 2	0.6808 ppm	0.0126 ppm	-0.0002 ppm	3.0863 ppm	0.0018 ppm	0.0013 ppm	-0.0017 ppm
Concentration per Run 3	0.6730 ppm	0.0127 ppm	-0.0003 ppm	3.1051 ppm	0.0022 ppm	-0.0002 ppm	-0.0011 ppm
Concentration RSD	1.3 %	1.2 %	18.8 %	0.5 %	12.5 %	206.3 %	465.3 %

	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	-0.0010 ppm	6.0788 ppm	-0.0003 ppm	0.0365 ppm	0.0012 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	6.1484 ppm	-0.0003 ppm	0.0366 ppm	0.0012 ppm	0.0003 ppm	0.0003 ppm
Concentration per Run 2	-0.0023 ppm	6.0752 ppm	-0.0008 ppm	0.0366 ppm	0.0013 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 3	-0.0008 ppm	6.0128 ppm	0.0003 ppm	0.0364 ppm	0.0011 ppm	-0.0002 ppm	0.0002 ppm
Concentration RSD	112.4 %	1.1 %	199.4 %	0.3 %	5.8 %	675.0 %	55.1 %

	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	0.0042 ppm	98.0991 %	102.1796 %	93.9603 %	93.8686 %	101.5463 %	94.8164 %
Concentration per Run 1	0.0043 ppm	96.8708 %	102.5568 %	93.1147 %	93.6899 %	102.1165 %	94.8556 %
Concentration per Run 2	0.0041 ppm	98.0537 %	101.4616 %	93.8973 %	93.7583 %	100.8663 %	94.6857 %
Concentration per Run 3	0.0043 ppm	99.3727 %	102.5205 %	94.8688 %	94.1577 %	101.6562 %	94.9079 %
Concentration RSD	2.3 %	1.3 %	0.6 %	0.9 %	0.3 %	0.6 %	0.1 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473323-04 WG2011473
Analysis started at: 12/20/2024 8:10:13 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	0.0000 ppm	0.0096 ppm	0.0019 ppm	0.0345 ppm	0.0135 ppm	0.0000 ppm	45.4538 ppm
Concentration per Run 1	0.0001 ppm	0.0082 ppm	-0.0002 ppm	0.0343 ppm	0.0135 ppm	0.0000 ppm	45.5385 ppm
Concentration per Run 2	0.0000 ppm	0.0117 ppm	0.0034 ppm	0.0352 ppm	0.0135 ppm	0.0000 ppm	45.6039 ppm
Concentration per Run 3	-0.0002 ppm	0.0090 ppm	0.0024 ppm	0.0339 ppm	0.0135 ppm	0.0000 ppm	45.2190 ppm
Concentration RSD	998.8 %	18.8 %	97.5 %	2.0 %	0.3 %	1,101.2 %	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	-0.0002 ppm	0.0000 ppm	-0.0001 ppm	0.0013 ppm	0.0826 ppm	5.7150 ppm	0.0079 ppm
Concentration per Run 1	-0.0002 ppm	0.0001 ppm	-0.0001 ppm	0.0015 ppm	0.0820 ppm	5.8043 ppm	0.0086 ppm
Concentration per Run 2	-0.0002 ppm	-0.0002 ppm	0.0000 ppm	0.0010 ppm	0.0826 ppm	5.6090 ppm	0.0076 ppm
Concentration per Run 3	-0.0002 ppm	0.0001 ppm	-0.0001 ppm	0.0013 ppm	0.0831 ppm	5.7317 ppm	0.0074 ppm
Concentration RSD	14.1 %	1,712.1 %	81.4 %	18.6 %	0.7 %	1.7 %	8.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.1729 ppm	0.0635 ppm	0.0000 ppm	19.3109 ppm	0.0011 ppm	0.0007 ppm	0.0010 ppm
Concentration per Run 1	10.2866 ppm	0.0636 ppm	-0.0002 ppm	19.6224 ppm	0.0012 ppm	0.0005 ppm	0.0022 ppm
Concentration per Run 2	10.1836 ppm	0.0638 ppm	-0.0002 ppm	18.8827 ppm	0.0012 ppm	0.0005 ppm	-0.0007 ppm
Concentration per Run 3	10.0486 ppm	0.0631 ppm	0.0003 ppm	19.4276 ppm	0.0008 ppm	0.0010 ppm	0.0015 ppm
Concentration RSD	1.2 %	0.6 %	957.7 %	2.0 %	20.3 %	37.8 %	146.4 %

	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	7.2819 ppm	-0.0002 ppm	0.2330 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 1	0.0016 ppm	7.3954 ppm	-0.0003 ppm	0.2342 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 2	-0.0028 ppm	7.2463 ppm	0.0004 ppm	0.2319 ppm	-0.0002 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 3	-0.0010 ppm	7.2041 ppm	-0.0007 ppm	0.2328 ppm	-0.0001 ppm	0.0003 ppm	0.0002 ppm
Concentration RSD	299.4 %	1.4 %	305.3 %	0.5 %	93.7 %	219.6 %	145.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0001 ppm	94.8289 %	100.1516 %	86.9147 %	89.6742 %	98.1808 %	90.0239 %
Concentration per Run 1	-0.0002 ppm	93.8468 %	100.0253 %	86.4959 %	89.6112 %	98.6738 %	90.2176 %
Concentration per Run 2	-0.0001 ppm	94.6020 %	99.6594 %	87.1239 %	89.5163 %	97.4187 %	90.0947 %
Concentration per Run 3	0.0000 ppm	96.0377 %	100.7702 %	87.1242 %	89.8950 %	98.4499 %	89.7594 %
Concentration RSD	114.4 %	1.2 %	0.6 %	0.4 %	0.2 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473323-05 WG2011473
Analysis started at: 12/20/2024 8:14:38 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	-0.0001 ppm	0.0113 ppm	0.0005 ppm	0.0343 ppm	0.0142 ppm	0.0000 ppm	46.2771 ppm
Concentration per Run 1	0.0001 ppm	0.0122 ppm	0.0000 ppm	0.0346 ppm	0.0143 ppm	0.0000 ppm	46.4925 ppm
Concentration per Run 2	-0.0001 ppm	0.0111 ppm	0.0004 ppm	0.0342 ppm	0.0141 ppm	0.0000 ppm	46.1590 ppm
Concentration per Run 3	-0.0002 ppm	0.0106 ppm	0.0010 ppm	0.0342 ppm	0.0141 ppm	0.0000 ppm	46.1799 ppm
Concentration RSD	155.1 %	7.2 %	107.8 %	0.6 %	1.0 %	68.8 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	-0.0002 ppm	-0.0001 ppm	0.0013 ppm	0.0885 ppm	5.8845 ppm	0.0082 ppm
Concentration per Run 1	-0.0004 ppm	-0.0001 ppm	-0.0003 ppm	0.0014 ppm	0.0879 ppm	5.9227 ppm	0.0083 ppm
Concentration per Run 2	-0.0002 ppm	-0.0003 ppm	0.0002 ppm	0.0012 ppm	0.0889 ppm	5.8744 ppm	0.0087 ppm
Concentration per Run 3	-0.0002 ppm	-0.0001 ppm	-0.0002 ppm	0.0013 ppm	0.0885 ppm	5.8564 ppm	0.0077 ppm
Concentration RSD	27.7 %	55.5 %	269.6 %	6.3 %	0.5 %	0.6 %	6.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.6593 ppm	0.0691 ppm	0.0000 ppm	20.0464 ppm	0.0014 ppm	0.0001 ppm	0.0004 ppm
Concentration per Run 1	9.7964 ppm	0.0697 ppm	-0.0002 ppm	20.1537 ppm	0.0022 ppm	0.0007 ppm	-0.0017 ppm
Concentration per Run 2	9.6571 ppm	0.0687 ppm	0.0000 ppm	19.9407 ppm	0.0012 ppm	0.0001 ppm	0.0009 ppm
Concentration per Run 3	9.5245 ppm	0.0689 ppm	0.0001 ppm	20.0448 ppm	0.0008 ppm	-0.0006 ppm	0.0020 ppm
Concentration RSD	1.4 %	0.7 %	525.8 %	0.5 %	48.4 %	1,038.5 %	448.4 %

	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	-0.0015 ppm	7.2210 ppm	-0.0001 ppm	0.2385 ppm	-0.0002 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 1	-0.0025 ppm	7.3583 ppm	-0.0009 ppm	0.2388 ppm	-0.0002 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 2	-0.0002 ppm	7.2077 ppm	0.0001 ppm	0.2384 ppm	-0.0002 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 3	-0.0020 ppm	7.0971 ppm	0.0004 ppm	0.2382 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm
Concentration RSD	80.0 %	1.8 %	532.0 %	0.1 %	43.1 %	91.9 %	177.0 %

	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	0.0002 ppm	95.0072 %	100.3905 %	87.3659 %	89.1948 %	98.4649 %	89.7804 %
Concentration per Run 1	0.0003 ppm	93.3875 %	99.9103 %	86.8288 %	88.9563 %	98.4991 %	89.7830 %
Concentration per Run 2	0.0003 ppm	95.2789 %	100.6956 %	87.0836 %	89.0523 %	98.7681 %	89.8252 %
Concentration per Run 3	0.0002 ppm	96.3552 %	100.5656 %	88.1853 %	89.5758 %	98.1274 %	89.7330 %
Concentration RSD	29.2 %	1.6 %	0.4 %	0.8 %	0.4 %	0.3 %	0.1 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473485-03d10 WG2011483
Analysis started at: 12/20/2024 8:19:03 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	-0.0001 ppm	9.1610 ppm	0.0082 ppm	0.0149 ppm	0.0760 ppm	0.0010 ppm	408.0917 ppm
Concentration per Run 1	-0.0002 ppm	9.1449 ppm	0.0085 ppm	0.0154 ppm	0.0752 ppm	0.0010 ppm	406.3255 ppm
Concentration per Run 2	0.0001 ppm	9.1549 ppm	0.0084 ppm	0.0147 ppm	0.0766 ppm	0.0010 ppm	410.4834 ppm
Concentration per Run 3	-0.0001 ppm	9.1832 ppm	0.0076 ppm	0.0146 ppm	0.0761 ppm	0.0010 ppm	407.4664 ppm
Concentration RSD	222.5 %	0.2 %	6.2 %	3.0 %	0.9 %	3.1 %	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	-0.0021 ppm	0.0030 ppm	0.0160 ppm	0.0175 ppm	12.6785 ppm	1.3400 ppm	0.0114 ppm
Concentration per Run 1	-0.0022 ppm	0.0027 ppm	0.0161 ppm	0.0175 ppm	12.5631 ppm	1.3326 ppm	0.0117 ppm
Concentration per Run 2	-0.0020 ppm	0.0035 ppm	0.0161 ppm	0.0175 ppm	12.7711 ppm	1.3480 ppm	0.0099 ppm
Concentration per Run 3	-0.0022 ppm	0.0028 ppm	0.0157 ppm	0.0174 ppm	12.7013 ppm	1.3393 ppm	0.0127 ppm
Concentration RSD	4.7 %	15.0 %	1.7 %	0.1 %	0.8 %	0.6 %	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	184.0263 ppm	0.6099 ppm	0.0052 ppm	0.6674 ppm	0.0085 ppm	0.0073 ppm	0.0007 ppm
Concentration per Run 1	186.9203 ppm	0.6055 ppm	0.0052 ppm	0.6687 ppm	0.0090 ppm	0.0070 ppm	0.0004 ppm
Concentration per Run 2	182.8304 ppm	0.6137 ppm	0.0053 ppm	0.6635 ppm	0.0083 ppm	0.0073 ppm	-0.0009 ppm
Concentration per Run 3	182.3284 ppm	0.6106 ppm	0.0052 ppm	0.6700 ppm	0.0083 ppm	0.0075 ppm	0.0027 ppm
Concentration RSD	1.4 %	0.7 %	1.1 %	0.5 %	5.0 %	3.7 %	249.4 %

	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	-0.0028 ppm	1.5691 ppm	0.0053 ppm	0.6069 ppm	0.3823 ppm	-0.0003 ppm	0.0117 ppm
Concentration per Run 1	-0.0031 ppm	1.5901 ppm	0.0053 ppm	0.6035 ppm	0.3888 ppm	-0.0004 ppm	0.0120 ppm
Concentration per Run 2	-0.0036 ppm	1.5220 ppm	0.0059 ppm	0.6096 ppm	0.3797 ppm	0.0002 ppm	0.0116 ppm
Concentration per Run 3	-0.0017 ppm	1.5954 ppm	0.0047 ppm	0.6077 ppm	0.3786 ppm	-0.0006 ppm	0.0116 ppm
Concentration RSD	35.7 %	2.6 %	11.2 %	0.5 %	1.5 %	162.3 %	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	0.0450 ppm	89.7059 %	96.5665 %	73.6313 %	82.4564 %	95.3196 %	83.3168 %
Concentration per Run 1	0.0460 ppm	88.6882 %	97.3832 %	73.4141 %	82.2174 %	95.7432 %	83.5829 %
Concentration per Run 2	0.0447 ppm	89.7187 %	95.7556 %	73.4565 %	82.4260 %	94.5727 %	83.0674 %
Concentration per Run 3	0.0444 ppm	90.7109 %	96.5607 %	74.0233 %	82.7257 %	95.6428 %	83.3002 %
Concentration RSD	1.8 %	1.1 %	0.8 %	0.5 %	0.3 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473485-04d10 WG2011483
Analysis started at: 12/20/2024 8:23:31 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	0.0002 ppm	12.4805 ppm	0.0084 ppm	0.0222 ppm	0.5643 ppm	0.0013 ppm	356.8339 ppm
Concentration per Run 1	0.0000 ppm	12.4427 ppm	0.0071 ppm	0.0219 ppm	0.5601 ppm	0.0013 ppm	357.7995 ppm
Concentration per Run 2	0.0001 ppm	12.5215 ppm	0.0079 ppm	0.0219 ppm	0.5703 ppm	0.0014 ppm	356.6247 ppm
Concentration per Run 3	0.0004 ppm	12.4773 ppm	0.0102 ppm	0.0227 ppm	0.5624 ppm	0.0013 ppm	356.0777 ppm
Concentration RSD	121.8 %	0.3 %	18.7 %	2.2 %	0.9 %	1.9 %	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	-0.0020 ppm	0.0096 ppm	0.0460 ppm	1.2627 ppm	14.7868 ppm	2.2811 ppm	0.0189 ppm
Concentration per Run 1	-0.0021 ppm	0.0098 ppm	0.0465 ppm	1.2794 ppm	14.7600 ppm	2.2640 ppm	0.0189 ppm
Concentration per Run 2	-0.0020 ppm	0.0097 ppm	0.0461 ppm	1.2596 ppm	14.8236 ppm	2.3084 ppm	0.0177 ppm
Concentration per Run 3	-0.0020 ppm	0.0092 ppm	0.0454 ppm	1.2490 ppm	14.7768 ppm	2.2709 ppm	0.0201 ppm
Concentration RSD	3.0 %	3.1 %	1.2 %	1.2 %	0.2 %	1.0 %	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	135.4998 ppm	0.6280 ppm	0.0037 ppm	0.9440 ppm	0.0155 ppm	0.0066 ppm	0.0038 ppm
Concentration per Run 1	136.8027 ppm	0.6287 ppm	0.0039 ppm	0.9384 ppm	0.0160 ppm	0.0066 ppm	0.0040 ppm
Concentration per Run 2	135.1406 ppm	0.6288 ppm	0.0038 ppm	0.9505 ppm	0.0154 ppm	0.0068 ppm	0.0041 ppm
Concentration per Run 3	134.5561 ppm	0.6264 ppm	0.0036 ppm	0.9430 ppm	0.0150 ppm	0.0063 ppm	0.0032 ppm
Concentration RSD	0.9 %	0.2 %	4.2 %	0.6 %	3.3 %	4.0 %	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	-0.0012 ppm	2.2959 ppm	0.0034 ppm	0.7896 ppm	0.5978 ppm	-0.0006 ppm	0.0169 ppm
Concentration per Run 1	-0.0015 ppm	2.2907 ppm	0.0046 ppm	0.7840 ppm	0.6007 ppm	0.0003 ppm	0.0169 ppm
Concentration per Run 2	-0.0034 ppm	2.3172 ppm	0.0026 ppm	0.7958 ppm	0.6047 ppm	-0.0015 ppm	0.0168 ppm
Concentration per Run 3	0.0013 ppm	2.2798 ppm	0.0029 ppm	0.7890 ppm	0.5880 ppm	-0.0006 ppm	0.0170 ppm
Concentration RSD	202.0 %	0.8 %	33.0 %	0.8 %	1.5 %	153.4 %	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	0.0559 ppm	91.3514 %	97.7693 %	75.0452 %	83.4470 %	96.6262 %	84.4331 %
Concentration per Run 1	0.0567 ppm	90.5496 %	97.6460 %	74.9441 %	83.5314 %	96.6183 %	84.8644 %
Concentration per Run 2	0.0555 ppm	91.4219 %	97.8215 %	74.9084 %	83.1939 %	96.4183 %	84.1978 %
Concentration per Run 3	0.0556 ppm	92.0827 %	97.8404 %	75.2830 %	83.6156 %	96.8420 %	84.2372 %
Concentration RSD	1.2 %	0.8 %	0.1 %	0.3 %	0.3 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473504-03d10 WG2011483
Analysis started at: 12/20/2024 8:27:58 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	0.0010 ppm	17.8542 ppm	0.0072 ppm	0.0253 ppm	0.1092 ppm	0.0008 ppm	217.5658 ppm
Concentration per Run 1	0.0010 ppm	17.9213 ppm	0.0065 ppm	0.0252 ppm	0.1094 ppm	0.0008 ppm	219.2817 ppm
Concentration per Run 2	0.0011 ppm	17.8450 ppm	0.0077 ppm	0.0255 ppm	0.1085 ppm	0.0008 ppm	217.6013 ppm
Concentration per Run 3	0.0010 ppm	17.7962 ppm	0.0075 ppm	0.0253 ppm	0.1097 ppm	0.0008 ppm	215.8143 ppm
Concentration RSD	9.6 %	0.4 %	9.1 %	0.6 %	0.6 %	0.1 %	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	-0.0005 ppm	0.0064 ppm	0.0399 ppm	5.5148 ppm	36.9481 ppm	2.9644 ppm	0.0252 ppm
Concentration per Run 1	-0.0006 ppm	0.0066 ppm	0.0398 ppm	5.5603 ppm	37.0786 ppm	2.9767 ppm	0.0264 ppm
Concentration per Run 2	-0.0006 ppm	0.0063 ppm	0.0399 ppm	5.4857 ppm	36.7278 ppm	2.9353 ppm	0.0246 ppm
Concentration per Run 3	-0.0004 ppm	0.0063 ppm	0.0401 ppm	5.4983 ppm	37.0378 ppm	2.9812 ppm	0.0246 ppm
Concentration RSD	22.1 %	2.8 %	0.4 %	0.7 %	0.5 %	0.9 %	4.0 %

	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	15.1452 ppm	0.4819 ppm	0.0026 ppm	2.0155 ppm	0.0211 ppm	0.0285 ppm	0.0010 ppm
Concentration per Run 1	15.2197 ppm	0.4852 ppm	0.0027 ppm	2.0130 ppm	0.0211 ppm	0.0288 ppm	0.0010 ppm
Concentration per Run 2	15.0447 ppm	0.4797 ppm	0.0025 ppm	2.0128 ppm	0.0210 ppm	0.0281 ppm	0.0031 ppm
Concentration per Run 3	15.1710 ppm	0.4807 ppm	0.0026 ppm	2.0206 ppm	0.0212 ppm	0.0287 ppm	-0.0011 ppm
Concentration RSD	0.6 %	0.6 %	3.7 %	0.2 %	0.6 %	1.3 %	206.2 %

	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	-0.0019 ppm	0.8184 ppm	0.0081 ppm	1.0983 ppm	0.7007 ppm	0.0000 ppm	0.0368 ppm
Concentration per Run 1	-0.0028 ppm	0.8165 ppm	0.0083 ppm	1.1013 ppm	0.7041 ppm	0.0001 ppm	0.0371 ppm
Concentration per Run 2	-0.0031 ppm	0.8113 ppm	0.0079 ppm	1.0914 ppm	0.6970 ppm	-0.0003 ppm	0.0368 ppm
Concentration per Run 3	0.0001 ppm	0.8275 ppm	0.0080 ppm	1.1022 ppm	0.7009 ppm	0.0001 ppm	0.0364 ppm
Concentration RSD	91.5 %	1.0 %	2.5 %	0.5 %	0.5 %	870.6 %	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	0.1933 ppm	96.4193 %	101.0559 %	82.5065 %	89.5031 %	102.2177 %	91.8064 %
Concentration per Run 1	0.1941 ppm	96.1745 %	100.5507 %	82.1936 %	90.2706 %	101.9896 %	91.8918 %
Concentration per Run 2	0.1917 ppm	97.2744 %	100.9317 %	82.4158 %	90.4710 %	102.3758 %	91.5281 %
Concentration per Run 3	0.1942 ppm	95.8089 %	101.6854 %	82.9101 %	87.7677 %	102.2878 %	91.9994 %
Concentration RSD	0.7 %	0.8 %	0.6 %	0.4 %	1.7 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: CCV
Analysis started at: 12/20/2024 8:32:24 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	0.4815 ppm	0.4671 ppm	0.4487 ppm	0.4735 ppm	0.4845 ppm	0.4918 ppm	0.4761 ppm
Concentration per Run 1	0.4849 ppm	0.4688 ppm	0.4478 ppm	0.4750 ppm	0.4894 ppm	0.4937 ppm	0.4788 ppm
Concentration per Run 2	0.4817 ppm	0.4667 ppm	0.4506 ppm	0.4743 ppm	0.4801 ppm	0.4909 ppm	0.4755 ppm
Concentration per Run 3	0.4779 ppm	0.4658 ppm	0.4477 ppm	0.4714 ppm	0.4840 ppm	0.4907 ppm	0.4740 ppm
Recovery Percentage 1	96.299 %	93.419 %	89.734 %	94.710 %	96.901 %	98.359 %	95.221 %
Concentration RSD	0.7 %	0.3 %	0.4 %	0.4 %	1.0 %	0.3 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4667 ppm	0.4905 ppm	0.4768 ppm	0.4842 ppm	0.4896 ppm	5.0628 ppm	0.4890 ppm
Concentration per Run 1	0.4692 ppm	0.4932 ppm	0.4787 ppm	0.4883 ppm	0.4922 ppm	5.1152 ppm	0.4933 ppm
Concentration per Run 2	0.4667 ppm	0.4911 ppm	0.4774 ppm	0.4837 ppm	0.4884 ppm	5.0439 ppm	0.4880 ppm
Concentration per Run 3	0.4643 ppm	0.4873 ppm	0.4744 ppm	0.4806 ppm	0.4881 ppm	5.0292 ppm	0.4856 ppm
Recovery Percentage 1	93.344 %	98.110 %	95.367 %	96.844 %	97.916 %	101.256 %	97.795 %
Concentration RSD	0.5 %	0.6 %	0.5 %	0.8 %	0.5 %	0.9 %	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	0.4816 ppm	0.4717 ppm	0.4824 ppm	9.7449 ppm	0.4921 ppm	0.4731 ppm	0.4813 ppm
Concentration per Run 1	0.4844 ppm	0.4731 ppm	0.4809 ppm	9.7706 ppm	0.4946 ppm	0.4740 ppm	0.4859 ppm
Concentration per Run 2	0.4836 ppm	0.4719 ppm	0.4833 ppm	9.8078 ppm	0.4918 ppm	0.4730 ppm	0.4809 ppm
Concentration per Run 3	0.4767 ppm	0.4702 ppm	0.4831 ppm	9.6564 ppm	0.4897 ppm	0.4724 ppm	0.4771 ppm
Recovery Percentage 1	96.312 %	94.348 %	96.487 %	97.449 %	98.414 %	94.625 %	96.261 %
Concentration RSD	0.9 %	0.3 %	0.3 %	0.8 %	0.5 %	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	0.4539 ppm	5.3873 ppm	0.4988 ppm	0.5084 ppm	0.4812 ppm	0.4706 ppm	0.4763 ppm
Concentration per Run 1	0.4526 ppm	5.4170 ppm	0.5016 ppm	0.5142 ppm	0.4849 ppm	0.4701 ppm	0.4783 ppm
Concentration per Run 2	0.4550 ppm	5.3859 ppm	0.4986 ppm	0.5023 ppm	0.4821 ppm	0.4710 ppm	0.4766 ppm
Concentration per Run 3	0.4542 ppm	5.3590 ppm	0.4964 ppm	0.5088 ppm	0.4767 ppm	0.4706 ppm	0.4741 ppm
Recovery Percentage 1	90.785 %	102.615 %	99.770 %	101.686 %	96.247 %	94.116 %	95.265 %
Concentration RSD	0.3 %	0.5 %	0.5 %	1.2 %	0.9 %	0.1 %	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	0.4773 ppm	104.0257 %	103.2662 %	95.1693 %	90.3564 %	97.8526 %	91.8345 %
Concentration per Run 1	0.4791 ppm	103.4082 %	103.1766 %	94.9991 %	90.4439 %	97.6153 %	91.8349 %
Concentration per Run 2	0.4790 ppm	103.9343 %	103.0758 %	95.3472 %	89.9232 %	97.9695 %	92.1635 %
Concentration per Run 3	0.4738 ppm	104.7345 %	103.5463 %	95.1616 %	90.7022 %	97.9731 %	91.5051 %
Recovery Percentage 1	95.459 %						
Concentration RSD	0.6 %	0.6 %	0.2 %	0.2 %	0.4 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: CCB
Analysis started at: 12/20/2024 8:36:50 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	0.0036 ppm	0.0010 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 1	-0.0001 ppm	-0.0002 ppm	0.0022 ppm	-0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0008 ppm
Concentration per Run 2	-0.0001 ppm	0.0054 ppm	0.0006 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 3	-0.0002 ppm	0.0055 ppm	0.0003 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm
Recovery Percentage 1	-2.965 %	3.562 %	20.957 %	-1.319 %	1.129 %	0.569 %	0.192 %
Concentration RSD	41.7 %	90.9 %	95.6 %	82.7 %	23.1 %	35.7 %	286.3 %

	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	0.0004 ppm	0.0010 ppm	0.0154 ppm	-0.0002 ppm
Concentration per Run 1	0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0005 ppm	0.0013 ppm	0.0174 ppm	-0.0006 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0002 ppm	0.0009 ppm	0.0286 ppm	0.0001 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0005 ppm	0.0008 ppm	0.0001 ppm	-0.0001 ppm
Recovery Percentage 1	2.324 %	-0.820 %	0.960 %	4.398 %	2.006 %	0.615 %	-1.851 %
Concentration RSD	62.7 %	83.4 %	279.9 %	37.7 %	29.5 %	93.4 %	181.0 %

	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	-0.0006 ppm	0.0001 ppm	0.0023 ppm	-0.0061 ppm	-0.0004 ppm	0.0001 ppm	0.0015 ppm
Concentration per Run 1	-0.0001 ppm	0.0001 ppm	0.0027 ppm	-0.0061 ppm	0.0002 ppm	0.0005 ppm	0.0020 ppm
Concentration per Run 2	-0.0002 ppm	0.0001 ppm	0.0020 ppm	-0.0052 ppm	-0.0010 ppm	-0.0003 ppm	0.0019 ppm
Concentration per Run 3	-0.0016 ppm	0.0000 ppm	0.0023 ppm	-0.0070 ppm	-0.0004 ppm	0.0000 ppm	0.0007 ppm
Recovery Percentage 1	-0.624 %	0.878 %	4.631 %	-0.305 %	-1.526 %	0.971 %	3.065 %
Concentration RSD	129.1 %	68.0 %	14.4 %	14.3 %	157.7 %	407.3 %	44.4 %

	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	0.0019 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 1	0.0004 ppm	-0.0010 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 2	-0.0003 ppm	0.0091 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 3	-0.0016 ppm	-0.0025 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	-0.0007 ppm	0.0002 ppm
Recovery Percentage 1	-5.311 %	0.374 %	0.133 %	0.219 %	-1.288 %	-0.714 %	1.218 %
Concentration RSD	190.3 %	336.3 %	294.5 %	212.3 %	21.2 %	416.5 %	42.8 %

	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	0.0006 ppm	100.3005 %	102.0245 %	97.3844 %	92.4934 %	99.2183 %	94.5419 %
Concentration per Run 1	0.0005 ppm	98.5850 %	102.0289 %	97.1156 %	91.9455 %	99.5659 %	94.6820 %
Concentration per Run 2	0.0007 ppm	100.8751 %	101.6736 %	96.7820 %	93.1698 %	99.0524 %	94.0708 %
Concentration per Run 3	0.0006 ppm	101.4415 %	102.3711 %	98.2556 %	92.3649 %	99.0365 %	94.8729 %
Recovery Percentage 1	12.562 %						
Concentration RSD	13.7 %	1.5 %	0.3 %	0.8 %	0.7 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2472822-01d2 WG2011473
Analysis started at: 12/20/2024 8:41:40 PM
Rack 2
Vial 38
Comment tl sup RR

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-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	0.0071 ppm	0.0093 ppm	0.0081 ppm	0.0175 ppm	0.0000 ppm	1.9479 ppm
Concentration per Run 1	0.0000 ppm	0.0071 ppm	0.0084 ppm	0.0091 ppm	0.0175 ppm	0.0000 ppm	1.9549 ppm
Concentration per Run 2	0.0001 ppm	0.0071 ppm	0.0100 ppm	0.0077 ppm	0.0178 ppm	0.0000 ppm	1.9507 ppm
Concentration per Run 3	-0.0001 ppm	0.0072 ppm	0.0093 ppm	0.0075 ppm	0.0174 ppm	0.0000 ppm	1.9382 ppm
Concentration RSD	1,026.8 %	0.9 %	8.7 %	11.2 %	1.1 %	177.2 %	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	-0.0004 ppm	0.0205 ppm	0.0049 ppm	0.0690 ppm	0.3023 ppm	0.0009 ppm
Concentration per Run 1	-0.0001 ppm	-0.0004 ppm	0.0204 ppm	0.0050 ppm	0.0680 ppm	0.3032 ppm	0.0015 ppm
Concentration per Run 2	0.0000 ppm	-0.0006 ppm	0.0209 ppm	0.0047 ppm	0.0712 ppm	0.3085 ppm	0.0007 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0204 ppm	0.0049 ppm	0.0677 ppm	0.2952 ppm	0.0006 ppm
Concentration RSD	257.9 %	46.3 %	1.4 %	3.2 %	2.8 %	2.2 %	53.0 %

	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	0.6143 ppm	0.0015 ppm	0.0002 ppm	98.3230 ppm	0.0011 ppm	0.0319 ppm	0.0014 ppm
Concentration per Run 1	0.6165 ppm	0.0015 ppm	0.0003 ppm	98.6354 ppm	0.0011 ppm	0.0320 ppm	0.0019 ppm
Concentration per Run 2	0.6184 ppm	0.0015 ppm	0.0002 ppm	98.3059 ppm	0.0010 ppm	0.0314 ppm	0.0023 ppm
Concentration per Run 3	0.6079 ppm	0.0016 ppm	0.0002 ppm	98.0278 ppm	0.0012 ppm	0.0324 ppm	0.0002 ppm
Concentration RSD	0.9 %	5.5 %	22.0 %	0.3 %	8.6 %	1.6 %	75.5 %

	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	0.0192 ppm	0.0836 ppm	0.0066 ppm	0.0126 ppm	-0.0003 ppm	-0.0100 ppm	0.0002 ppm
Concentration per Run 1	0.0178 ppm	0.0840 ppm	0.0065 ppm	0.0125 ppm	-0.0004 ppm	-0.0093 ppm	0.0000 ppm
Concentration per Run 2	0.0205 ppm	0.0845 ppm	0.0072 ppm	0.0127 ppm	-0.0002 ppm	-0.0103 ppm	0.0004 ppm
Concentration per Run 3	0.0194 ppm	0.0825 ppm	0.0061 ppm	0.0126 ppm	-0.0002 ppm	-0.0104 ppm	0.0001 ppm
Concentration RSD	6.8 %	1.2 %	8.7 %	0.8 %	33.3 %	6.0 %	125.2 %

	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	0.0043 ppm	97.6518 %	102.9625 %	81.2083 %	87.7926 %	98.9254 %	86.6168 %
Concentration per Run 1	0.0045 ppm	97.0371 %	103.2281 %	80.7092 %	88.2276 %	99.1220 %	86.5082 %
Concentration per Run 2	0.0043 ppm	97.2215 %	102.2093 %	81.5485 %	87.3426 %	98.8045 %	87.1914 %
Concentration per Run 3	0.0041 ppm	98.6967 %	103.4501 %	81.3674 %	87.8076 %	98.8496 %	86.1509 %
Concentration RSD	5.3 %	0.9 %	0.6 %	0.5 %	0.5 %	0.2 %	0.6 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2472827-01d2 WG2011473
Analysis started at: 12/20/2024 8:46:06 PM
Rack 2
Vial 39
Comment tl sup RR

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-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	0.0270 ppm	0.0078 ppm	0.0380 ppm	0.0195 ppm	0.0000 ppm	2.1833 ppm
Concentration per Run 1	0.0001 ppm	0.0288 ppm	0.0066 ppm	0.0387 ppm	0.0196 ppm	0.0000 ppm	2.1661 ppm
Concentration per Run 2	0.0001 ppm	0.0268 ppm	0.0087 ppm	0.0379 ppm	0.0195 ppm	0.0000 ppm	2.2085 ppm
Concentration per Run 3	0.0000 ppm	0.0253 ppm	0.0080 ppm	0.0374 ppm	0.0193 ppm	0.0000 ppm	2.1752 ppm
Concentration RSD	150.5 %	6.5 %	13.7 %	1.7 %	0.7 %	172.4 %	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	-0.0001 ppm	-0.0002 ppm	0.0448 ppm	0.0365 ppm	0.7433 ppm	0.2823 ppm	0.0012 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0458 ppm	0.0371 ppm	0.7448 ppm	0.2858 ppm	0.0013 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	0.0446 ppm	0.0369 ppm	0.7493 ppm	0.2825 ppm	0.0012 ppm
Concentration per Run 3	-0.0001 ppm	-0.0005 ppm	0.0442 ppm	0.0355 ppm	0.7358 ppm	0.2787 ppm	0.0011 ppm
Concentration RSD	36.5 %	164.6 %	1.9 %	2.3 %	0.9 %	1.3 %	9.9 %

	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	0.6471 ppm	0.0122 ppm	-0.0004 ppm	82.8555 ppm	0.0055 ppm	0.1558 ppm	0.0016 ppm
Concentration per Run 1	0.6547 ppm	0.0122 ppm	-0.0002 ppm	83.1988 ppm	0.0051 ppm	0.1568 ppm	0.0016 ppm
Concentration per Run 2	0.6467 ppm	0.0123 ppm	-0.0005 ppm	83.1780 ppm	0.0056 ppm	0.1567 ppm	0.0012 ppm
Concentration per Run 3	0.6400 ppm	0.0121 ppm	-0.0005 ppm	82.1897 ppm	0.0057 ppm	0.1538 ppm	0.0019 ppm
Concentration RSD	1.1 %	0.8 %	42.1 %	0.7 %	5.6 %	1.1 %	22.3 %

	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	0.0217 ppm	0.0946 ppm	0.0076 ppm	0.0125 ppm	-0.0002 ppm	-0.0105 ppm	0.0002 ppm
Concentration per Run 1	0.0219 ppm	0.0957 ppm	0.0077 ppm	0.0125 ppm	-0.0002 ppm	-0.0100 ppm	0.0002 ppm
Concentration per Run 2	0.0218 ppm	0.0943 ppm	0.0081 ppm	0.0126 ppm	-0.0001 ppm	-0.0112 ppm	0.0001 ppm
Concentration per Run 3	0.0212 ppm	0.0937 ppm	0.0070 ppm	0.0124 ppm	-0.0002 ppm	-0.0102 ppm	0.0003 ppm
Concentration RSD	1.8 %	1.1 %	7.3 %	0.7 %	19.0 %	6.1 %	60.7 %

	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	0.0305 ppm	97.9090 %	103.1521 %	80.9705 %	88.0018 %	99.1245 %	86.6851 %
Concentration per Run 1	0.0311 ppm	96.3793 %	103.6806 %	79.8957 %	87.4473 %	100.0087 %	86.5848 %
Concentration per Run 2	0.0304 ppm	98.1969 %	102.0878 %	80.7486 %	88.2466 %	98.0813 %	86.1232 %
Concentration per Run 3	0.0300 ppm	99.1509 %	103.6879 %	82.2672 %	88.3115 %	99.2834 %	87.3473 %
Concentration RSD	1.9 %	1.4 %	0.9 %	1.5 %	0.5 %	1.0 %	0.7 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2472973-01d2 WG2011473
Analysis started at: 12/20/2024 8:50:33 PM
Rack 2
Vial 40
Comment tl sup RR

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-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	0.0255 ppm	0.0099 ppm	0.0391 ppm	0.0198 ppm	0.0000 ppm	2.1910 ppm
Concentration per Run 1	0.0000 ppm	0.0252 ppm	0.0080 ppm	0.0378 ppm	0.0198 ppm	0.0000 ppm	2.2021 ppm
Concentration per Run 2	-0.0001 ppm	0.0256 ppm	0.0110 ppm	0.0397 ppm	0.0198 ppm	0.0000 ppm	2.1841 ppm
Concentration per Run 3	0.0000 ppm	0.0256 ppm	0.0108 ppm	0.0399 ppm	0.0198 ppm	0.0000 ppm	2.1866 ppm
Concentration RSD	859.6 %	0.9 %	17.0 %	3.0 %	0.1 %	71.4 %	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	-0.0001 ppm	-0.0002 ppm	0.0363 ppm	0.0351 ppm	0.6845 ppm	0.2890 ppm	0.0010 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	0.0365 ppm	0.0355 ppm	0.6856 ppm	0.3043 ppm	0.0005 ppm
Concentration per Run 2	-0.0001 ppm	-0.0005 ppm	0.0365 ppm	0.0348 ppm	0.6826 ppm	0.2789 ppm	0.0014 ppm
Concentration per Run 3	-0.0001 ppm	-0.0003 ppm	0.0360 ppm	0.0350 ppm	0.6853 ppm	0.2838 ppm	0.0011 ppm
Concentration RSD	23.4 %	285.2 %	0.8 %	1.0 %	0.2 %	4.7 %	46.0 %

	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	0.6604 ppm	0.0118 ppm	-0.0006 ppm	82.9490 ppm	0.0054 ppm	0.1430 ppm	0.0020 ppm
Concentration per Run 1	0.6675 ppm	0.0118 ppm	-0.0004 ppm	83.4835 ppm	0.0053 ppm	0.1440 ppm	0.0017 ppm
Concentration per Run 2	0.6625 ppm	0.0117 ppm	-0.0007 ppm	82.9054 ppm	0.0055 ppm	0.1425 ppm	0.0026 ppm
Concentration per Run 3	0.6512 ppm	0.0119 ppm	-0.0006 ppm	82.4582 ppm	0.0052 ppm	0.1425 ppm	0.0016 ppm
Concentration RSD	1.3 %	0.8 %	32.5 %	0.6 %	2.6 %	0.6 %	26.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0183 ppm	0.0942 ppm	0.0066 ppm	0.0129 ppm	-0.0003 ppm	-0.0086 ppm	0.0001 ppm
Concentration per Run 1	0.0173 ppm	0.0948 ppm	0.0057 ppm	0.0129 ppm	-0.0003 ppm	-0.0076 ppm	0.0001 ppm
Concentration per Run 2	0.0188 ppm	0.0944 ppm	0.0070 ppm	0.0129 ppm	-0.0002 ppm	-0.0095 ppm	0.0001 ppm
Concentration per Run 3	0.0188 ppm	0.0935 ppm	0.0069 ppm	0.0128 ppm	-0.0003 ppm	-0.0086 ppm	0.0001 ppm
Concentration RSD	4.7 %	0.7 %	10.9 %	0.3 %	9.2 %	11.0 %	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	0.0316 ppm	97.9762 %	103.4356 %	82.1076 %	88.2617 %	99.4745 %	86.9927 %
Concentration per Run 1	0.0317 ppm	96.9731 %	103.1213 %	81.7497 %	88.4652 %	99.1697 %	86.8571 %
Concentration per Run 2	0.0317 ppm	98.0082 %	103.7941 %	81.5013 %	87.9929 %	99.8000 %	86.6268 %
Concentration per Run 3	0.0314 ppm	98.9473 %	103.3915 %	83.0717 %	88.3270 %	99.4537 %	87.4944 %
Concentration RSD	0.5 %	1.0 %	0.3 %	1.0 %	0.3 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: CCV
Analysis started at: 12/20/2024 9:00:03 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	0.4830 ppm	0.4703 ppm	0.4434 ppm	0.4751 ppm	0.4877 ppm	0.4898 ppm	0.4649 ppm
Concentration per Run 1	0.4862 ppm	0.4724 ppm	0.4438 ppm	0.4754 ppm	0.4928 ppm	0.4901 ppm	0.4642 ppm
Concentration per Run 2	0.4825 ppm	0.4628 ppm	0.4423 ppm	0.4739 ppm	0.4850 ppm	0.4906 ppm	0.4673 ppm
Concentration per Run 3	0.4804 ppm	0.4755 ppm	0.4441 ppm	0.4759 ppm	0.4854 ppm	0.4889 ppm	0.4632 ppm
Recovery Percentage 1	96.604 %	94.053 %	88.675 %	95.016 %	97.549 %	97.970 %	92.974 %
Concentration RSD	0.6 %	1.4 %	0.2 %	0.2 %	0.9 %	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	0.4591 ppm	0.4862 ppm	0.4730 ppm	0.4875 ppm	0.4835 ppm	5.2853 ppm	0.5085 ppm
Concentration per Run 1	0.4589 ppm	0.4868 ppm	0.4724 ppm	0.4898 ppm	0.4825 ppm	5.3162 ppm	0.5113 ppm
Concentration per Run 2	0.4585 ppm	0.4844 ppm	0.4734 ppm	0.4870 ppm	0.4838 ppm	5.2340 ppm	0.5020 ppm
Concentration per Run 3	0.4599 ppm	0.4873 ppm	0.4731 ppm	0.4858 ppm	0.4842 ppm	5.3058 ppm	0.5122 ppm
Recovery Percentage 1	91.822 %	97.238 %	94.599 %	97.504 %	96.698 %	105.707 %	101.703 %
Concentration RSD	0.2 %	0.3 %	0.1 %	0.4 %	0.2 %	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	0.4781 ppm	0.4691 ppm	0.4801 ppm	10.1263 ppm	0.4842 ppm	0.4718 ppm	0.4817 ppm
Concentration per Run 1	0.4816 ppm	0.4691 ppm	0.4759 ppm	10.1762 ppm	0.4839 ppm	0.4734 ppm	0.4823 ppm
Concentration per Run 2	0.4754 ppm	0.4707 ppm	0.4811 ppm	9.9652 ppm	0.4840 ppm	0.4720 ppm	0.4835 ppm
Concentration per Run 3	0.4772 ppm	0.4676 ppm	0.4834 ppm	10.2375 ppm	0.4846 ppm	0.4702 ppm	0.4794 ppm
Recovery Percentage 1	95.617 %	93.825 %	96.024 %	101.263 %	96.832 %	94.368 %	96.349 %
Concentration RSD	0.7 %	0.3 %	0.8 %	1.4 %	0.1 %	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	0.4545 ppm	5.3817 ppm	0.4917 ppm	0.5093 ppm	0.4789 ppm	0.4713 ppm	0.4734 ppm
Concentration per Run 1	0.4563 ppm	5.3810 ppm	0.4899 ppm	0.5103 ppm	0.4811 ppm	0.4709 ppm	0.4758 ppm
Concentration per Run 2	0.4536 ppm	5.3849 ppm	0.4937 ppm	0.5086 ppm	0.4795 ppm	0.4724 ppm	0.4732 ppm
Concentration per Run 3	0.4537 ppm	5.3793 ppm	0.4916 ppm	0.5089 ppm	0.4761 ppm	0.4706 ppm	0.4713 ppm
Recovery Percentage 1	90.902 %	102.509 %	98.348 %	101.854 %	95.778 %	94.261 %	94.688 %
Concentration RSD	0.3 %	0.1 %	0.4 %	0.2 %	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	0.4673 ppm	104.3861 %	103.9432 %	95.6500 %	90.3737 %	98.9433 %	92.0513 %
Concentration per Run 1	0.4654 ppm	103.9618 %	104.1296 %	95.3279 %	90.4638 %	98.9935 %	91.9553 %
Concentration per Run 2	0.4674 ppm	104.7536 %	103.4737 %	95.8587 %	90.6826 %	98.4872 %	92.3430 %
Concentration per Run 3	0.4692 ppm	104.4430 %	104.2263 %	95.7633 %	89.9747 %	99.3492 %	91.8556 %
Recovery Percentage 1	93.461 %						
Concentration RSD	0.4 %	0.4 %	0.4 %	0.3 %	0.4 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: CCB
Analysis started at: 12/20/2024 9:04:35 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	0.0046 ppm	0.0014 ppm	-0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0011 ppm
Concentration per Run 1	-0.0001 ppm	0.0059 ppm	0.0010 ppm	-0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 2	0.0000 ppm	0.0026 ppm	0.0012 ppm	-0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0008 ppm
Concentration per Run 3	0.0001 ppm	0.0054 ppm	0.0021 ppm	-0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0014 ppm
Recovery Percentage 1	0.007 %	4.624 %	28.074 %	-1.522 %	1.478 %	0.515 %	1.072 %
Concentration RSD	18,328.2 %	38.1 %	41.2 %	55.3 %	28.0 %	18.5 %	30.3 %

	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	-0.0004 ppm	-0.0001 ppm	0.0007 ppm	0.0011 ppm	0.0096 ppm	0.0003 ppm
Concentration per Run 1	0.0001 ppm	-0.0005 ppm	0.0000 ppm	0.0007 ppm	0.0018 ppm	0.0123 ppm	0.0000 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	-0.0001 ppm	0.0007 ppm	0.0004 ppm	0.0120 ppm	0.0008 ppm
Concentration per Run 3	0.0002 ppm	-0.0005 ppm	-0.0003 ppm	0.0006 ppm	0.0011 ppm	0.0044 ppm	0.0003 ppm
Recovery Percentage 1	2.634 %	-4.250 %	-1.042 %	6.736 %	2.132 %	0.383 %	3.432 %
Concentration RSD	50.5 %	27.8 %	145.5 %	12.1 %	66.3 %	46.9 %	124.7 %

	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	0.0001 ppm	0.0022 ppm	-0.0015 ppm	-0.0001 ppm	-0.0004 ppm	0.0007 ppm
Concentration per Run 1	-0.0009 ppm	0.0001 ppm	0.0024 ppm	-0.0014 ppm	-0.0003 ppm	-0.0007 ppm	0.0015 ppm
Concentration per Run 2	-0.0002 ppm	0.0001 ppm	0.0021 ppm	-0.0017 ppm	-0.0001 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 3	0.0002 ppm	0.0000 ppm	0.0020 ppm	-0.0015 ppm	0.0001 ppm	-0.0001 ppm	0.0004 ppm
Recovery Percentage 1	-0.302 %	0.908 %	4.368 %	-0.076 %	-0.400 %	-4.076 %	1.301 %
Concentration RSD	179.4 %	72.4 %	9.7 %	10.5 %	203.9 %	81.4 %	110.0 %

	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	-0.0013 ppm	-0.0022 ppm	0.0008 ppm	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 1	-0.0017 ppm	-0.0023 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0002 ppm
Concentration per Run 2	-0.0007 ppm	-0.0019 ppm	0.0009 ppm	0.0000 ppm	-0.0001 ppm	0.0008 ppm	0.0001 ppm
Concentration per Run 3	-0.0013 ppm	-0.0023 ppm	0.0005 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm
Recovery Percentage 1	-12.541 %	-0.432 %	1.623 %	0.290 %	-0.949 %	1.982 %	1.115 %
Concentration RSD	40.5 %	11.4 %	30.7 %	101.4 %	42.5 %	102.1 %	78.7 %

	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	0.0005 ppm	100.5364 %	102.9051 %	97.3701 %	92.6556 %	100.0623 %	94.1283 %
Concentration per Run 1	0.0006 ppm	99.8547 %	103.1825 %	96.9679 %	93.3063 %	100.3515 %	94.4243 %
Concentration per Run 2	0.0005 ppm	100.6477 %	102.0846 %	96.4314 %	92.5597 %	99.3130 %	93.2622 %
Concentration per Run 3	0.0006 ppm	101.1069 %	103.4483 %	98.7111 %	92.1010 %	100.5223 %	94.6985 %
Recovery Percentage 1	10.988 %						
Concentration RSD	6.1 %	0.6 %	0.7 %	1.2 %	0.7 %	0.7 %	0.8 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: CCV
Analysis started at: 12/20/2024 9:09:02 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	0.5103 ppm	0.4976 ppm	0.4699 ppm	0.4953 ppm	0.5088 ppm	0.5158 ppm	0.5160 ppm
Concentration per Run 1	0.5159 ppm	0.4964 ppm	0.4706 ppm	0.5007 ppm	0.5067 ppm	0.5168 ppm	0.5182 ppm
Concentration per Run 2	0.5074 ppm	0.4970 ppm	0.4734 ppm	0.4944 ppm	0.5087 ppm	0.5131 ppm	0.5135 ppm
Concentration per Run 3	0.5075 ppm	0.4994 ppm	0.4657 ppm	0.4907 ppm	0.5109 ppm	0.5174 ppm	0.5163 ppm
Recovery Percentage 1	102.057 %	99.523 %	93.984 %	99.059 %	101.753 %	103.154 %	103.198 %
Concentration RSD	1.0 %	0.3 %	0.8 %	1.0 %	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	0.4878 ppm	0.5131 ppm	0.5007 ppm	0.5121 ppm	0.5249 ppm	5.4476 ppm	0.5304 ppm
Concentration per Run 1	0.4955 ppm	0.5183 ppm	0.5095 ppm	0.5154 ppm	0.5286 ppm	5.4352 ppm	0.5320 ppm
Concentration per Run 2	0.4873 ppm	0.5129 ppm	0.4996 ppm	0.5103 ppm	0.5187 ppm	5.4676 ppm	0.5313 ppm
Concentration per Run 3	0.4805 ppm	0.5080 ppm	0.4929 ppm	0.5105 ppm	0.5272 ppm	5.4400 ppm	0.5280 ppm
Recovery Percentage 1	97.554 %	102.612 %	100.133 %	102.411 %	104.971 %	108.952 %	106.084 %
Concentration RSD	1.5 %	1.0 %	1.7 %	0.6 %	1.0 %	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	0.5075 ppm	0.4947 ppm	0.5053 ppm	10.6134 ppm	0.5131 ppm	0.4967 ppm	0.5029 ppm
Concentration per Run 1	0.5159 ppm	0.4955 ppm	0.5079 ppm	10.5547 ppm	0.5222 ppm	0.4974 ppm	0.5034 ppm
Concentration per Run 2	0.5041 ppm	0.4927 ppm	0.5060 ppm	10.7621 ppm	0.5112 ppm	0.4997 ppm	0.5055 ppm
Concentration per Run 3	0.5027 ppm	0.4960 ppm	0.5019 ppm	10.5236 ppm	0.5059 ppm	0.4928 ppm	0.4999 ppm
Recovery Percentage 1	101.508 %	98.942 %	101.054 %	106.134 %	102.622 %	99.333 %	100.583 %
Concentration RSD	1.4 %	0.4 %	0.6 %	1.2 %	1.6 %	0.7 %	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	0.4764 ppm	5.6861 ppm	0.5273 ppm	0.5273 ppm	0.5071 ppm	0.4988 ppm	0.5018 ppm
Concentration per Run 1	0.4807 ppm	5.7557 ppm	0.5396 ppm	0.5281 ppm	0.5122 ppm	0.5015 ppm	0.5071 ppm
Concentration per Run 2	0.4779 ppm	5.6696 ppm	0.5256 ppm	0.5269 ppm	0.5060 ppm	0.4976 ppm	0.5015 ppm
Concentration per Run 3	0.4706 ppm	5.6330 ppm	0.5166 ppm	0.5269 ppm	0.5032 ppm	0.4974 ppm	0.4969 ppm
Recovery Percentage 1	95.278 %	108.307 %	105.455 %	105.463 %	101.421 %	99.762 %	100.366 %
Concentration RSD	1.1 %	1.1 %	2.2 %	0.1 %	0.9 %	0.5 %	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	0.4958 ppm	103.4998 %	103.3618 %	94.8744 %	90.0730 %	98.1818 %	91.8698 %
Concentration per Run 1	0.5059 ppm	102.1626 %	102.9469 %	94.6186 %	89.7031 %	98.4599 %	91.6792 %
Concentration per Run 2	0.4953 ppm	103.8305 %	104.1590 %	94.0728 %	90.2997 %	98.3578 %	91.6054 %
Concentration per Run 3	0.4862 ppm	104.5063 %	102.9793 %	95.9318 %	90.2161 %	97.7278 %	92.3246 %
Recovery Percentage 1	99.160 %						
Concentration RSD	2.0 %	1.2 %	0.7 %	1.0 %	0.4 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: CCB
Analysis started at: 12/20/2024 9:13:29 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	0.0014 ppm	0.0011 ppm	-0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 1	0.0002 ppm	0.0030 ppm	0.0011 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 2	0.0002 ppm	-0.0005 ppm	0.0015 ppm	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 3	0.0002 ppm	0.0016 ppm	0.0007 ppm	-0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0007 ppm
Recovery Percentage 1	3.697 %	1.371 %	22.657 %	-0.551 %	1.376 %	0.519 %	0.312 %
Concentration RSD	12.4 %	130.9 %	36.1 %	347.4 %	33.1 %	51.3 %	118.0 %

	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	0.0000 ppm	-0.0002 ppm	0.0007 ppm	0.0007 ppm	0.0109 ppm	0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	-0.0002 ppm	0.0008 ppm	0.0006 ppm	0.0104 ppm	0.0001 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0012 ppm	0.0071 ppm	0.0003 ppm
Concentration per Run 3	0.0001 ppm	-0.0004 ppm	-0.0002 ppm	0.0009 ppm	0.0002 ppm	0.0154 ppm	0.0000 ppm
Recovery Percentage 1	2.715 %	-0.481 %	-1.683 %	6.810 %	1.332 %	0.437 %	1.363 %
Concentration RSD	16.9 %	680.5 %	40.8 %	35.0 %	70.9 %	38.3 %	82.2 %

	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	-0.0008 ppm	0.0000 ppm	0.0026 ppm	-0.0058 ppm	0.0001 ppm	0.0001 ppm	0.0013 ppm
Concentration per Run 1	-0.0008 ppm	0.0000 ppm	0.0028 ppm	-0.0057 ppm	0.0002 ppm	0.0003 ppm	0.0018 ppm
Concentration per Run 2	-0.0009 ppm	0.0001 ppm	0.0024 ppm	-0.0061 ppm	0.0003 ppm	0.0003 ppm	0.0006 ppm
Concentration per Run 3	-0.0006 ppm	0.0000 ppm	0.0026 ppm	-0.0056 ppm	-0.0002 ppm	-0.0003 ppm	0.0014 ppm
Recovery Percentage 1	-0.767 %	0.221 %	5.218 %	-0.291 %	0.314 %	0.885 %	2.565 %
Concentration RSD	17.9 %	215.2 %	7.5 %	5.0 %	357.6 %	431.2 %	46.8 %

	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	-0.0021 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0001 ppm
Concentration per Run 1	-0.0018 ppm	-0.0025 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0014 ppm	0.0002 ppm
Concentration per Run 2	-0.0021 ppm	-0.0023 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 3	0.0006 ppm	-0.0016 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm
Recovery Percentage 1	-11.075 %	-0.422 %	0.555 %	0.391 %	-0.059 %	2.563 %	1.402 %
Concentration RSD	130.7 %	22.5 %	37.2 %	5.9 %	844.4 %	148.7 %	41.4 %

	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	99.8731 %	99.9685 %	96.5662 %	92.3391 %	97.5294 %	94.0861 %
Concentration per Run 1	0.0005 ppm	98.7369 %	97.6012 %	95.5272 %	92.3099 %	94.5222 %	93.9547 %
Concentration per Run 2	0.0004 ppm	100.5064 %	99.8607 %	96.4047 %	92.9342 %	98.2105 %	93.9206 %
Concentration per Run 3	0.0005 ppm	100.3758 %	102.4435 %	97.7667 %	91.7733 %	99.8556 %	94.3828 %
Recovery Percentage 1	8.856 %						
Concentration RSD	10.9 %	1.0 %	2.4 %	1.2 %	0.6 %	2.8 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2472389-01d2 WG2011327
Analysis started at: 12/20/2024 9:21:22 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	0.0029 ppm	122.5947 ppm	0.0580 ppm	0.0137 ppm	0.5562 ppm	0.0037 ppm	95.2231 ppm
Concentration per Run 1	0.0034 ppm	122.7964 ppm	0.0579 ppm	0.0136 ppm	0.5578 ppm	0.0037 ppm	95.0568 ppm
Concentration per Run 2	0.0026 ppm	122.3436 ppm	0.0574 ppm	0.0126 ppm	0.5559 ppm	0.0037 ppm	94.9026 ppm
Concentration per Run 3	0.0028 ppm	122.6441 ppm	0.0586 ppm	0.0149 ppm	0.5550 ppm	0.0038 ppm	95.7098 ppm
Concentration RSD	14.3 %	0.2 %	1.0 %	8.2 %	0.3 %	1.5 %	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	0.0018 ppm	0.0796 ppm	0.2830 ppm	0.3680 ppm	186.4409 ppm	13.0060 ppm	0.1712 ppm
Concentration per Run 1	0.0018 ppm	0.0797 ppm	0.2829 ppm	0.3692 ppm	186.4735 ppm	13.0055 ppm	0.1730 ppm
Concentration per Run 2	0.0018 ppm	0.0802 ppm	0.2845 ppm	0.3688 ppm	186.4944 ppm	13.0350 ppm	0.1717 ppm
Concentration per Run 3	0.0019 ppm	0.0789 ppm	0.2816 ppm	0.3661 ppm	186.3547 ppm	12.9776 ppm	0.1689 ppm
Concentration RSD	4.2 %	0.8 %	0.5 %	0.4 %	0.0 %	0.2 %	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	48.8057 ppm	2.7037 ppm	0.0076 ppm	7.2749 ppm	0.1564 ppm	0.5646 ppm	0.0034 ppm
Concentration per Run 1	48.9396 ppm	2.7031 ppm	0.0072 ppm	7.3311 ppm	0.1557 ppm	0.5643 ppm	0.0041 ppm
Concentration per Run 2	49.0218 ppm	2.7071 ppm	0.0081 ppm	7.2143 ppm	0.1580 ppm	0.5634 ppm	0.0017 ppm
Concentration per Run 3	48.4558 ppm	2.7010 ppm	0.0077 ppm	7.2794 ppm	0.1556 ppm	0.5662 ppm	0.0045 ppm
Concentration RSD	0.6 %	0.1 %	5.5 %	0.8 %	0.9 %	0.3 %	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	-0.0019 ppm	4.0906 ppm	0.0273 ppm	0.2786 ppm	6.9093 ppm	0.0065 ppm	0.3630 ppm
Concentration per Run 1	-0.0016 ppm	4.1156 ppm	0.0260 ppm	0.2802 ppm	6.9270 ppm	0.0053 ppm	0.3635 ppm
Concentration per Run 2	0.0014 ppm	4.1227 ppm	0.0275 ppm	0.2781 ppm	6.9401 ppm	0.0075 ppm	0.3651 ppm
Concentration per Run 3	-0.0055 ppm	4.0335 ppm	0.0284 ppm	0.2774 ppm	6.8608 ppm	0.0067 ppm	0.3603 ppm
Concentration RSD	183.6 %	1.2 %	4.4 %	0.5 %	0.6 %	17.0 %	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	0.5785 ppm	104.6896 %	106.5556 %	75.6114 %	110.2937 %	126.0510 %	112.6071 %
Concentration per Run 1	0.5757 ppm	104.6805 %	107.1747 %	75.4148 %	110.5694 %	126.7879 %	112.5276 %
Concentration per Run 2	0.5851 ppm	104.1335 %	106.2900 %	76.1060 %	109.6110 %	125.5523 %	112.9955 %
Concentration per Run 3	0.5747 ppm	105.2549 %	106.2020 %	75.3133 %	110.7007 %	125.8126 %	112.2981 %
Concentration RSD	1.0 %	0.5 %	0.5 %	0.6 %	0.5 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2473921-01d2 WG2011327
Analysis started at: 12/20/2024 9:26:03 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	0.0027 ppm	79.5221 ppm	0.0632 ppm	0.0176 ppm	0.6072 ppm	0.0032 ppm	88.6507 ppm
Concentration per Run 1	0.0027 ppm	79.3597 ppm	0.0629 ppm	0.0182 ppm	0.6027 ppm	0.0032 ppm	88.9391 ppm
Concentration per Run 2	0.0029 ppm	79.5169 ppm	0.0641 ppm	0.0171 ppm	0.6115 ppm	0.0032 ppm	88.1351 ppm
Concentration per Run 3	0.0025 ppm	79.6897 ppm	0.0627 ppm	0.0174 ppm	0.6074 ppm	0.0032 ppm	88.8780 ppm
Concentration RSD	7.2 %	0.2 %	1.2 %	3.5 %	0.7 %	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	0.0065 ppm	0.0612 ppm	0.1688 ppm	1.7399 ppm	137.7012 ppm	10.8899 ppm	0.1341 ppm
Concentration per Run 1	0.0067 ppm	0.0615 ppm	0.1700 ppm	1.7472 ppm	137.8214 ppm	10.7999 ppm	0.1333 ppm
Concentration per Run 2	0.0064 ppm	0.0616 ppm	0.1696 ppm	1.7387 ppm	137.3223 ppm	10.9371 ppm	0.1345 ppm
Concentration per Run 3	0.0064 ppm	0.0606 ppm	0.1668 ppm	1.7339 ppm	137.9598 ppm	10.9327 ppm	0.1345 ppm
Concentration RSD	2.9 %	0.9 %	1.0 %	0.4 %	0.2 %	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	39.8597 ppm	2.3030 ppm	0.0043 ppm	3.8914 ppm	0.1153 ppm	1.6837 ppm	0.0043 ppm
Concentration per Run 1	40.0878 ppm	2.3085 ppm	0.0041 ppm	3.8631 ppm	0.1162 ppm	1.6847 ppm	0.0049 ppm
Concentration per Run 2	40.0428 ppm	2.2942 ppm	0.0045 ppm	3.8891 ppm	0.1153 ppm	1.6874 ppm	0.0042 ppm
Concentration per Run 3	39.4483 ppm	2.3063 ppm	0.0044 ppm	3.9219 ppm	0.1143 ppm	1.6791 ppm	0.0037 ppm
Concentration RSD	0.9 %	0.3 %	5.6 %	0.8 %	0.8 %	0.3 %	13.8 %

	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	1.9781 ppm	0.0664 ppm	0.5299 ppm	3.7099 ppm	0.0001 ppm	0.2098 ppm
Concentration per Run 1	-0.0011 ppm	1.9996 ppm	0.0658 ppm	0.5276 ppm	3.7303 ppm	0.0006 ppm	0.2111 ppm
Concentration per Run 2	-0.0020 ppm	1.9824 ppm	0.0659 ppm	0.5311 ppm	3.7282 ppm	0.0003 ppm	0.2101 ppm
Concentration per Run 3	0.0009 ppm	1.9523 ppm	0.0675 ppm	0.5309 ppm	3.6712 ppm	-0.0005 ppm	0.2083 ppm
Concentration RSD	198.3 %	1.2 %	1.4 %	0.4 %	0.9 %	435.8 %	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	1.8362 ppm	100.8920 %	105.6508 %	79.8337 %	102.3279 %	119.0421 %	105.4067 %
Concentration per Run 1	1.8468 ppm	100.4583 %	105.3788 %	80.1869 %	102.8091 %	119.2338 %	105.8268 %
Concentration per Run 2	1.8438 ppm	100.3704 %	106.1995 %	79.3029 %	101.2474 %	119.2626 %	105.0527 %
Concentration per Run 3	1.8181 ppm	101.8471 %	105.3741 %	80.0114 %	102.9272 %	118.6299 %	105.3406 %
Concentration RSD	0.9 %	0.8 %	0.4 %	0.6 %	0.9 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2474105-01d2 WG2011327
Analysis started at: 12/20/2024 9:30:30 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	0.0014 ppm	79.0021 ppm	0.0716 ppm	0.0035 ppm	0.2663 ppm	0.0028 ppm	18.3622 ppm
Concentration per Run 1	0.0017 ppm	78.9144 ppm	0.0699 ppm	0.0034 ppm	0.2663 ppm	0.0028 ppm	18.2962 ppm
Concentration per Run 2	0.0010 ppm	79.2884 ppm	0.0728 ppm	0.0032 ppm	0.2675 ppm	0.0028 ppm	18.3872 ppm
Concentration per Run 3	0.0015 ppm	78.8035 ppm	0.0721 ppm	0.0040 ppm	0.2650 ppm	0.0028 ppm	18.4031 ppm
Concentration RSD	25.4 %	0.3 %	2.1 %	11.1 %	0.5 %	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	0.0355 ppm	0.1884 ppm	0.1038 ppm	85.4233 ppm	15.2083 ppm	0.1462 ppm
Concentration per Run 1	0.0008 ppm	0.0360 ppm	0.1899 ppm	0.1048 ppm	85.4994 ppm	15.3143 ppm	0.1481 ppm
Concentration per Run 2	0.0008 ppm	0.0354 ppm	0.1879 ppm	0.1029 ppm	85.3831 ppm	15.2260 ppm	0.1459 ppm
Concentration per Run 3	0.0007 ppm	0.0351 ppm	0.1875 ppm	0.1038 ppm	85.3873 ppm	15.0847 ppm	0.1448 ppm
Concentration RSD	4.5 %	1.3 %	0.7 %	0.9 %	0.1 %	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	31.2328 ppm	1.2578 ppm	0.0017 ppm	3.0313 ppm	0.1481 ppm	0.2571 ppm	0.0004 ppm
Concentration per Run 1	31.5234 ppm	1.2562 ppm	0.0014 ppm	3.0419 ppm	0.1490 ppm	0.2567 ppm	0.0006 ppm
Concentration per Run 2	31.0437 ppm	1.2615 ppm	0.0022 ppm	3.0440 ppm	0.1481 ppm	0.2567 ppm	0.0006 ppm
Concentration per Run 3	31.1311 ppm	1.2558 ppm	0.0015 ppm	3.0080 ppm	0.1473 ppm	0.2578 ppm	0.0001 ppm
Concentration RSD	0.8 %	0.3 %	25.8 %	0.7 %	0.6 %	0.2 %	75.5 %

	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	1.2815 ppm	0.0198 ppm	0.0743 ppm	4.2230 ppm	0.0034 ppm	0.1619 ppm
Concentration per Run 1	-0.0001 ppm	1.2996 ppm	0.0196 ppm	0.0744 ppm	4.2510 ppm	0.0021 ppm	0.1635 ppm
Concentration per Run 2	-0.0024 ppm	1.2793 ppm	0.0195 ppm	0.0744 ppm	4.2018 ppm	0.0045 ppm	0.1610 ppm
Concentration per Run 3	-0.0012 ppm	1.2656 ppm	0.0205 ppm	0.0740 ppm	4.2162 ppm	0.0037 ppm	0.1613 ppm
Concentration RSD	94.2 %	1.3 %	2.8 %	0.3 %	0.6 %	34.9 %	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	0.2790 ppm	101.9717 %	105.5651 %	83.3938 %	103.9282 %	118.2000 %	107.1417 %
Concentration per Run 1	0.2823 ppm	101.3032 %	105.9894 %	83.2877 %	104.0093 %	118.7670 %	107.4923 %
Concentration per Run 2	0.2773 ppm	102.3920 %	105.7439 %	83.4739 %	104.4636 %	118.2260 %	106.7657 %
Concentration per Run 3	0.2774 ppm	102.2198 %	104.9620 %	83.4197 %	103.3118 %	117.6069 %	107.1672 %
Concentration RSD	1.0 %	0.6 %	0.5 %	0.1 %	0.6 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2474306-01d2 WG2011327
Analysis started at: 12/20/2024 9:34:56 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	106.5324 ppm	0.1181 ppm	0.0209 ppm	0.5366 ppm	0.0039 ppm	49.5448 ppm
Concentration per Run 1	0.0028 ppm	106.3162 ppm	0.1173 ppm	0.0215 ppm	0.5333 ppm	0.0040 ppm	49.9521 ppm
Concentration per Run 2	0.0030 ppm	107.1994 ppm	0.1199 ppm	0.0211 ppm	0.5357 ppm	0.0039 ppm	49.5711 ppm
Concentration per Run 3	0.0025 ppm	106.0815 ppm	0.1170 ppm	0.0202 ppm	0.5407 ppm	0.0040 ppm	49.1111 ppm
Concentration RSD	8.5 %	0.6 %	1.3 %	3.2 %	0.7 %	0.3 %	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	0.0029 ppm	0.0524 ppm	0.1621 ppm	0.4963 ppm	150.3949 ppm	15.7531 ppm	0.1573 ppm
Concentration per Run 1	0.0031 ppm	0.0524 ppm	0.1623 ppm	0.4997 ppm	150.9906 ppm	15.6197 ppm	0.1572 ppm
Concentration per Run 2	0.0028 ppm	0.0533 ppm	0.1631 ppm	0.4964 ppm	150.2221 ppm	15.9556 ppm	0.1577 ppm
Concentration per Run 3	0.0028 ppm	0.0514 ppm	0.1610 ppm	0.4928 ppm	149.9719 ppm	15.6841 ppm	0.1569 ppm
Concentration RSD	4.9 %	1.8 %	0.6 %	0.7 %	0.4 %	1.1 %	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	34.6124 ppm	2.6670 ppm	0.0048 ppm	2.2446 ppm	0.1054 ppm	1.7356 ppm	0.0074 ppm
Concentration per Run 1	34.6516 ppm	2.6821 ppm	0.0047 ppm	2.2303 ppm	0.1052 ppm	1.7379 ppm	0.0076 ppm
Concentration per Run 2	34.8919 ppm	2.6690 ppm	0.0047 ppm	2.2698 ppm	0.1065 ppm	1.7269 ppm	0.0086 ppm
Concentration per Run 3	34.2938 ppm	2.6499 ppm	0.0049 ppm	2.2338 ppm	0.1045 ppm	1.7419 ppm	0.0062 ppm
Concentration RSD	0.9 %	0.6 %	3.1 %	1.0 %	1.0 %	0.4 %	16.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	1.0496 ppm	0.0277 ppm	0.2369 ppm	4.1037 ppm	0.0014 ppm	0.2259 ppm
Concentration per Run 1	-0.0008 ppm	1.0476 ppm	0.0278 ppm	0.2368 ppm	4.1215 ppm	0.0033 ppm	0.2267 ppm
Concentration per Run 2	0.0003 ppm	1.0669 ppm	0.0270 ppm	0.2362 ppm	4.1242 ppm	-0.0004 ppm	0.2266 ppm
Concentration per Run 3	0.0028 ppm	1.0342 ppm	0.0284 ppm	0.2378 ppm	4.0654 ppm	0.0012 ppm	0.2244 ppm
Concentration RSD	237.2 %	1.6 %	2.5 %	0.3 %	0.8 %	133.5 %	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	1.1028 ppm	104.0821 %	107.8787 %	79.5447 %	107.3661 %	122.3941 %	107.4696 %
Concentration per Run 1	1.1022 ppm	103.9816 %	107.3467 %	79.4401 %	108.0224 %	121.7849 %	107.4339 %
Concentration per Run 2	1.1130 ppm	103.3787 %	107.7574 %	79.9171 %	106.1837 %	122.6280 %	108.0490 %
Concentration per Run 3	1.0931 ppm	104.8859 %	108.5321 %	79.2770 %	107.8922 %	122.7694 %	106.9259 %
Concentration RSD	0.9 %	0.7 %	0.6 %	0.4 %	1.0 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2474312-01d2 WG2011327
Analysis started at: 12/20/2024 9:39:23 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	0.0017 ppm	61.6736 ppm	0.0565 ppm	0.0109 ppm	0.3053 ppm	0.0031 ppm	56.3218 ppm
Concentration per Run 1	0.0017 ppm	61.7246 ppm	0.0561 ppm	0.0119 ppm	0.3079 ppm	0.0032 ppm	56.5036 ppm
Concentration per Run 2	0.0016 ppm	61.3599 ppm	0.0570 ppm	0.0104 ppm	0.3028 ppm	0.0031 ppm	55.5752 ppm
Concentration per Run 3	0.0019 ppm	61.9362 ppm	0.0563 ppm	0.0104 ppm	0.3051 ppm	0.0031 ppm	56.8866 ppm
Concentration RSD	6.7 %	0.5 %	0.8 %	7.8 %	0.8 %	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	0.0009 ppm	0.0399 ppm	0.1075 ppm	0.1953 ppm	117.6269 ppm	6.0940 ppm	0.0909 ppm
Concentration per Run 1	0.0009 ppm	0.0406 ppm	0.1082 ppm	0.1965 ppm	118.2174 ppm	6.1127 ppm	0.0922 ppm
Concentration per Run 2	0.0008 ppm	0.0396 ppm	0.1075 ppm	0.1958 ppm	116.9146 ppm	6.0553 ppm	0.0900 ppm
Concentration per Run 3	0.0009 ppm	0.0395 ppm	0.1067 ppm	0.1937 ppm	117.7486 ppm	6.1140 ppm	0.0907 ppm
Concentration RSD	11.2 %	1.5 %	0.7 %	0.7 %	0.6 %	0.5 %	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	24.7382 ppm	2.1088 ppm	0.0026 ppm	0.7030 ppm	0.0929 ppm	0.5038 ppm	0.0058 ppm
Concentration per Run 1	25.0114 ppm	2.1118 ppm	0.0024 ppm	0.7025 ppm	0.0937 ppm	0.5042 ppm	0.0049 ppm
Concentration per Run 2	24.7880 ppm	2.0978 ppm	0.0027 ppm	0.6981 ppm	0.0934 ppm	0.5067 ppm	0.0054 ppm
Concentration per Run 3	24.4152 ppm	2.1168 ppm	0.0027 ppm	0.7083 ppm	0.0915 ppm	0.5006 ppm	0.0072 ppm
Concentration RSD	1.2 %	0.5 %	6.6 %	0.7 %	1.3 %	0.6 %	20.8 %

	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	1.3684 ppm	0.0293 ppm	0.2333 ppm	3.2359 ppm	0.0012 ppm	0.1567 ppm
Concentration per Run 1	-0.0013 ppm	1.3969 ppm	0.0292 ppm	0.2356 ppm	3.2642 ppm	0.0009 ppm	0.1581 ppm
Concentration per Run 2	-0.0021 ppm	1.3684 ppm	0.0301 ppm	0.2328 ppm	3.2443 ppm	0.0007 ppm	0.1574 ppm
Concentration per Run 3	-0.0009 ppm	1.3398 ppm	0.0286 ppm	0.2315 ppm	3.1993 ppm	0.0019 ppm	0.1547 ppm
Concentration RSD	41.3 %	2.1 %	2.5 %	0.9 %	1.0 %	53.4 %	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	0.5319 ppm	102.2766 %	104.7041 %	82.2262 %	102.7881 %	115.4800 %	103.8277 %
Concentration per Run 1	0.5362 ppm	101.5673 %	104.1211 %	82.1401 %	102.6508 %	115.0887 %	103.8434 %
Concentration per Run 2	0.5346 ppm	101.9632 %	106.1423 %	81.8254 %	102.4054 %	116.2733 %	103.8050 %
Concentration per Run 3	0.5250 ppm	103.2993 %	103.8490 %	82.7131 %	103.3082 %	115.0778 %	103.8347 %
Concentration RSD	1.1 %	0.9 %	1.2 %	0.5 %	0.5 %	0.6 %	0.0 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2474464-01d2 WG2011327
Analysis started at: 12/20/2024 9:43:50 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	0.0025 ppm	127.9564 ppm	0.0790 ppm	0.0623 ppm	0.4775 ppm	0.0043 ppm	18.8011 ppm
Concentration per Run 1	0.0025 ppm	128.5192 ppm	0.0796 ppm	0.0619 ppm	0.4787 ppm	0.0043 ppm	18.8623 ppm
Concentration per Run 2	0.0026 ppm	127.0885 ppm	0.0768 ppm	0.0624 ppm	0.4765 ppm	0.0042 ppm	18.7770 ppm
Concentration per Run 3	0.0024 ppm	128.2614 ppm	0.0805 ppm	0.0625 ppm	0.4772 ppm	0.0042 ppm	18.7640 ppm
Concentration RSD	5.9 %	0.6 %	2.4 %	0.5 %	0.2 %	1.5 %	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	0.0010 ppm	0.0682 ppm	0.3271 ppm	0.1639 ppm	174.1311 ppm	42.8691 ppm	0.2466 ppm
Concentration per Run 1	0.0009 ppm	0.0683 ppm	0.3289 ppm	0.1638 ppm	174.5027 ppm	42.9452 ppm	0.2476 ppm
Concentration per Run 2	0.0010 ppm	0.0680 ppm	0.3279 ppm	0.1654 ppm	173.4335 ppm	42.6869 ppm	0.2448 ppm
Concentration per Run 3	0.0009 ppm	0.0684 ppm	0.3246 ppm	0.1626 ppm	174.4570 ppm	42.9753 ppm	0.2474 ppm
Concentration RSD	5.6 %	0.3 %	0.7 %	0.8 %	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	56.5461 ppm	2.7798 ppm	0.0091 ppm	13.3403 ppm	0.1761 ppm	0.0741 ppm	0.0001 ppm
Concentration per Run 1	56.9437 ppm	2.7887 ppm	0.0090 ppm	13.3585 ppm	0.1760 ppm	0.0744 ppm	0.0011 ppm
Concentration per Run 2	56.4544 ppm	2.7738 ppm	0.0091 ppm	13.3040 ppm	0.1769 ppm	0.0726 ppm	-0.0001 ppm
Concentration per Run 3	56.2402 ppm	2.7768 ppm	0.0092 ppm	13.3585 ppm	0.1754 ppm	0.0751 ppm	-0.0007 ppm
Concentration RSD	0.6 %	0.3 %	1.1 %	0.2 %	0.4 %	1.7 %	1,410.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0026 ppm	1.2570 ppm	0.0077 ppm	0.1421 ppm	9.1468 ppm	0.0085 ppm	0.3174 ppm
Concentration per Run 1	-0.0009 ppm	1.2754 ppm	0.0081 ppm	0.1429 ppm	9.2074 ppm	0.0096 ppm	0.3195 ppm
Concentration per Run 2	-0.0014 ppm	1.2739 ppm	0.0072 ppm	0.1409 ppm	9.1623 ppm	0.0074 ppm	0.3170 ppm
Concentration per Run 3	-0.0056 ppm	1.2218 ppm	0.0078 ppm	0.1423 ppm	9.0706 ppm	0.0084 ppm	0.3157 ppm
Concentration RSD	97.3 %	2.4 %	5.6 %	0.7 %	0.8 %	13.0 %	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	0.4237 ppm	104.2437 %	108.8925 %	74.8856 %	102.8001 %	119.2495 %	107.0245 %
Concentration per Run 1	0.4239 ppm	104.0363 %	108.7378 %	74.2400 %	102.8239 %	119.3419 %	106.7048 %
Concentration per Run 2	0.4249 ppm	104.1456 %	109.0558 %	75.6475 %	102.7022 %	118.8713 %	107.3886 %
Concentration per Run 3	0.4222 ppm	104.5492 %	108.8839 %	74.7693 %	102.8742 %	119.5353 %	106.9801 %
Concentration RSD	0.3 %	0.3 %	0.1 %	0.9 %	0.1 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2474464-02d2 WG2011327
Analysis started at: 12/20/2024 9:48:17 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	0.0034 ppm	160.4063 ppm	0.1025 ppm	0.0630 ppm	0.5811 ppm	0.0050 ppm	41.8744 ppm
Concentration per Run 1	0.0035 ppm	159.7540 ppm	0.1006 ppm	0.0639 ppm	0.5799 ppm	0.0050 ppm	41.6433 ppm
Concentration per Run 2	0.0031 ppm	160.8763 ppm	0.1040 ppm	0.0623 ppm	0.5810 ppm	0.0049 ppm	41.9105 ppm
Concentration per Run 3	0.0037 ppm	160.5887 ppm	0.1030 ppm	0.0629 ppm	0.5824 ppm	0.0052 ppm	42.0693 ppm
Concentration RSD	9.1 %	0.4 %	1.7 %	1.2 %	0.2 %	2.3 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.0872 ppm	0.3318 ppm	0.2044 ppm	220.1747 [SIC 500]	50.0317 ppm	0.3087 ppm
Concentration per Run 1	0.0011 ppm	0.0875 ppm	0.3328 ppm	0.2050 ppm	219.2075 ppm	49.6437 ppm	0.3101 ppm
Concentration per Run 2	0.0008 ppm	0.0856 ppm	0.3297 ppm	0.2033 ppm	220.3057 ppm	50.2165 ppm	0.3107 ppm
Concentration per Run 3	0.0014 ppm	0.0885 ppm	0.3330 ppm	0.2048 ppm	221.0109 ppm	50.2350 ppm	0.3053 ppm
Concentration RSD	25.1 %	1.7 %	0.6 %	0.5 %	0.4 %	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	71.6296 ppm	3.8380 ppm	0.0084 ppm	14.3695 ppm	0.2193 ppm	0.0845 ppm	0.0021 ppm
Concentration per Run 1	72.1446 ppm	3.8230 ppm	0.0086 ppm	14.3679 ppm	0.2214 ppm	0.0838 ppm	0.0012 ppm
Concentration per Run 2	71.0785 ppm	3.8443 ppm	0.0084 ppm	14.3755 ppm	0.2175 ppm	0.0851 ppm	0.0015 ppm
Concentration per Run 3	71.6658 ppm	3.8465 ppm	0.0084 ppm	14.3650 ppm	0.2189 ppm	0.0845 ppm	0.0037 ppm
Concentration RSD	0.7 %	0.3 %	1.1 %	0.0 %	0.9 %	0.8 %	65.1 %

	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	-0.0040 ppm	1.0453 ppm	0.0084 ppm	0.2444 ppm	10.3026 ppm	0.0100 ppm	0.3785 ppm
Concentration per Run 1	-0.0036 ppm	1.0548 ppm	0.0080 ppm	0.2431 ppm	10.3693 ppm	0.0095 ppm	0.3807 ppm
Concentration per Run 2	-0.0062 ppm	1.0348 ppm	0.0088 ppm	0.2437 ppm	10.2138 ppm	0.0107 ppm	0.3765 ppm
Concentration per Run 3	-0.0021 ppm	1.0462 ppm	0.0085 ppm	0.2463 ppm	10.3248 ppm	0.0100 ppm	0.3782 ppm
Concentration RSD	52.5 %	1.0 %	4.5 %	0.7 %	0.8 %	6.1 %	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	0.5134 ppm	104.0739 %	109.4540 %	71.4068 %	106.1561 %	124.8933 %	110.4266 %
Concentration per Run 1	0.5166 ppm	103.6966 %	110.0539 %	71.3792 %	106.0902 %	125.7941 %	110.2430 %
Concentration per Run 2	0.5073 ppm	105.0040 %	108.9617 %	71.1884 %	107.1257 %	124.3328 %	110.0824 %
Concentration per Run 3	0.5165 ppm	103.5211 %	109.3465 %	71.6527 %	105.2523 %	124.5528 %	110.9543 %
Concentration RSD	1.0 %	0.8 %	0.5 %	0.3 %	0.9 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2474464-03d2 WG2011327
Analysis started at: 12/20/2024 9:52:44 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	0.0043 ppm	166.7344 ppm	0.0984 ppm	0.0595 ppm	0.5787 ppm	0.0054 ppm	29.0319 ppm
Concentration per Run 1	0.0042 ppm	166.3806 ppm	0.1049 ppm	0.0593 ppm	0.5733 ppm	0.0053 ppm	28.9754 ppm
Concentration per Run 2	0.0041 ppm	167.0171 ppm	0.0944 ppm	0.0585 ppm	0.5842 ppm	0.0053 ppm	29.1595 ppm
Concentration per Run 3	0.0046 ppm	166.8054 ppm	0.0958 ppm	0.0608 ppm	0.5787 ppm	0.0055 ppm	28.9608 ppm
Concentration RSD	5.7 %	0.2 %	5.8 %	1.9 %	0.9 %	2.3 %	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	0.0015 ppm	0.0912 ppm	0.4306 ppm	0.2095 ppm	232.5209 [SIC 500]	51.4431 ppm	0.3197 ppm
Concentration per Run 1	0.0014 ppm	0.0911 ppm	0.4320 ppm	0.2101 ppm	231.3130 ppm	51.0569 ppm	0.3165 ppm
Concentration per Run 2	0.0012 ppm	0.0914 ppm	0.4323 ppm	0.2089 ppm	235.4777 ppm	51.7817 ppm	0.3206 ppm
Concentration per Run 3	0.0017 ppm	0.0910 ppm	0.4274 ppm	0.2096 ppm	230.7721 ppm	51.4908 ppm	0.3221 ppm
Concentration RSD	17.4 %	0.3 %	0.6 %	0.3 %	1.1 %	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	75.1877 ppm	3.9113 ppm	0.0154 ppm	11.0233 ppm	0.2387 ppm	0.0892 ppm	0.0020 ppm
Concentration per Run 1	75.3968 ppm	3.9052 ppm	0.0152 ppm	11.0152 ppm	0.2382 ppm	0.0913 ppm	0.0030 ppm
Concentration per Run 2	75.7576 ppm	3.9362 ppm	0.0154 ppm	10.9718 ppm	0.2398 ppm	0.0886 ppm	0.0023 ppm
Concentration per Run 3	74.4087 ppm	3.8924 ppm	0.0154 ppm	11.0830 ppm	0.2382 ppm	0.0878 ppm	0.0007 ppm
Concentration RSD	0.9 %	0.6 %	0.7 %	0.5 %	0.4 %	2.0 %	60.1 %

	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	-0.0043 ppm	1.0064 ppm	0.0096 ppm	0.1814 ppm	10.3065 ppm	0.0101 ppm	0.3970 ppm
Concentration per Run 1	-0.0040 ppm	1.0226 ppm	0.0096 ppm	0.1800 ppm	10.3308 ppm	0.0082 ppm	0.3990 ppm
Concentration per Run 2	-0.0038 ppm	1.0169 ppm	0.0094 ppm	0.1828 ppm	10.3267 ppm	0.0121 ppm	0.3999 ppm
Concentration per Run 3	-0.0052 ppm	0.9797 ppm	0.0098 ppm	0.1815 ppm	10.2621 ppm	0.0100 ppm	0.3922 ppm
Concentration RSD	17.9 %	2.3 %	2.5 %	0.8 %	0.4 %	19.3 %	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	0.5563 ppm	105.2737 %	110.2945 %	72.3662 %	107.0430 %	125.7592 %	111.5342 %
Concentration per Run 1	0.5583 ppm	105.2777 %	111.1292 %	71.8748 %	107.4120 %	126.6395 %	111.4343 %
Concentration per Run 2	0.5607 ppm	105.2322 %	109.1367 %	72.4753 %	107.3724 %	124.4074 %	111.7076 %
Concentration per Run 3	0.5499 ppm	105.3112 %	110.6178 %	72.7484 %	106.3445 %	126.2306 %	111.4607 %
Concentration RSD	1.0 %	0.0 %	0.9 %	0.6 %	0.6 %	0.9 %	0.1 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: L2474464-04d2 WG2011327
Analysis started at: 12/20/2024 9:57:13 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	0.0024 ppm	100.3481 ppm	0.0557 ppm	0.0450 ppm	0.7468 ppm	0.0034 ppm	96.2863 ppm
Concentration per Run 1	0.0023 ppm	100.4268 ppm	0.0529 ppm	0.0440 ppm	0.7459 ppm	0.0034 ppm	96.3762 ppm
Concentration per Run 2	0.0023 ppm	101.0987 ppm	0.0577 ppm	0.0463 ppm	0.7503 ppm	0.0034 ppm	96.9461 ppm
Concentration per Run 3	0.0025 ppm	99.5188 ppm	0.0563 ppm	0.0446 ppm	0.7444 ppm	0.0033 ppm	95.5364 ppm
Concentration RSD	5.0 %	0.8 %	4.4 %	2.7 %	0.4 %	0.9 %	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	0.0825 ppm	0.2441 ppm	0.1780 ppm	140.7905 ppm	12.9720 ppm	0.1381 ppm
Concentration per Run 1	0.0008 ppm	0.0826 ppm	0.2441 ppm	0.1792 ppm	140.4313 ppm	12.8585 ppm	0.1379 ppm
Concentration per Run 2	0.0007 ppm	0.0830 ppm	0.2462 ppm	0.1784 ppm	141.6634 ppm	13.1191 ppm	0.1387 ppm
Concentration per Run 3	0.0010 ppm	0.0820 ppm	0.2419 ppm	0.1765 ppm	140.2767 ppm	12.9383 ppm	0.1378 ppm
Concentration RSD	19.6 %	0.6 %	0.9 %	0.8 %	0.5 %	1.0 %	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	65.3258 ppm	2.4107 ppm	0.0075 ppm	4.4445 ppm	0.2394 ppm	0.1748 ppm	0.0025 ppm
Concentration per Run 1	65.5015 ppm	2.4086 ppm	0.0075 ppm	4.4439 ppm	0.2399 ppm	0.1738 ppm	0.0012 ppm
Concentration per Run 2	65.9046 ppm	2.4220 ppm	0.0074 ppm	4.4977 ppm	0.2404 ppm	0.1732 ppm	0.0029 ppm
Concentration per Run 3	64.5712 ppm	2.4014 ppm	0.0076 ppm	4.3918 ppm	0.2378 ppm	0.1773 ppm	0.0033 ppm
Concentration RSD	1.0 %	0.4 %	1.0 %	1.2 %	0.6 %	1.3 %	44.2 %

	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	2.0203 ppm	0.0112 ppm	0.3505 ppm	4.5415 ppm	0.0041 ppm	0.2558 ppm
Concentration per Run 1	-0.0035 ppm	2.0236 ppm	0.0108 ppm	0.3501 ppm	4.5538 ppm	0.0030 ppm	0.2569 ppm
Concentration per Run 2	0.0001 ppm	2.0327 ppm	0.0124 ppm	0.3519 ppm	4.5678 ppm	0.0047 ppm	0.2576 ppm
Concentration per Run 3	-0.0002 ppm	2.0045 ppm	0.0103 ppm	0.3493 ppm	4.5028 ppm	0.0044 ppm	0.2528 ppm
Concentration RSD	169.1 %	0.7 %	10.0 %	0.4 %	0.8 %	22.1 %	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	0.3929 ppm	99.9468 %	104.7683 %	77.1132 %	101.6017 %	118.4245 %	104.1839 %
Concentration per Run 1	0.3930 ppm	99.6844 %	105.1964 %	76.7709 %	102.1480 %	119.0233 %	103.8491 %
Concentration per Run 2	0.3956 ppm	99.3065 %	104.1049 %	77.5520 %	100.8375 %	118.0764 %	104.8063 %
Concentration per Run 3	0.3901 ppm	100.8495 %	105.0036 %	77.0169 %	101.8194 %	118.1738 %	103.8963 %
Concentration RSD	0.7 %	0.8 %	0.6 %	0.5 %	0.7 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: CCV
Analysis started at: 12/20/2024 10:01:40 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	0.5080 ppm	0.5050 ppm	0.4653 ppm	0.4952 ppm	0.5078 ppm	0.5165 ppm	0.5263 ppm
Concentration per Run 1	0.5158 ppm	0.5134 ppm	0.4676 ppm	0.5052 ppm	0.5129 ppm	0.5216 ppm	0.5322 ppm
Concentration per Run 2	0.5081 ppm	0.4988 ppm	0.4604 ppm	0.4969 ppm	0.5030 ppm	0.5084 ppm	0.5160 ppm
Concentration per Run 3	0.5000 ppm	0.5027 ppm	0.4680 ppm	0.4836 ppm	0.5076 ppm	0.5195 ppm	0.5308 ppm
Recovery Percentage 1	101.594 %	100.992 %	93.067 %	99.044 %	101.563 %	103.302 %	105.269 %
Concentration RSD	1.6 %	1.5 %	0.9 %	2.2 %	1.0 %	1.4 %	1.7 %

	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	0.4919 ppm	0.5159 ppm	0.5013 ppm	0.5096 ppm	0.5434 ppm	5.3308 ppm	0.5163 ppm
Concentration per Run 1	0.5010 ppm	0.5243 ppm	0.5097 ppm	0.5191 ppm	0.5528 ppm	5.3847 ppm	0.5214 ppm
Concentration per Run 2	0.4923 ppm	0.5162 ppm	0.5008 ppm	0.5095 ppm	0.5323 ppm	5.3180 ppm	0.5143 ppm
Concentration per Run 3	0.4824 ppm	0.5073 ppm	0.4933 ppm	0.5001 ppm	0.5449 ppm	5.2898 ppm	0.5132 ppm
Recovery Percentage 1	98.381 %	103.188 %	100.253 %	101.914 %	108.674 %	106.617 %	103.254 %
Concentration RSD	1.9 %	1.6 %	1.6 %	1.9 %	1.9 %	0.9 %	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	0.5135 ppm	0.4984 ppm	0.5082 ppm	10.4102 ppm	0.5153 ppm	0.4963 ppm	0.4974 ppm
Concentration per Run 1	0.5241 ppm	0.5038 ppm	0.5117 ppm	10.5100 ppm	0.5216 ppm	0.4984 ppm	0.5022 ppm
Concentration per Run 2	0.5101 ppm	0.4904 ppm	0.5104 ppm	10.3926 ppm	0.5167 ppm	0.4926 ppm	0.5020 ppm
Concentration per Run 3	0.5065 ppm	0.5011 ppm	0.5026 ppm	10.3281 ppm	0.5075 ppm	0.4979 ppm	0.4881 ppm
Recovery Percentage 1	102.709 %	99.685 %	101.649 %	104.102 %	103.052 %	99.263 %	99.486 %
Concentration RSD	1.8 %	1.4 %	1.0 %	0.9 %	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	0.4754 ppm	5.6750 ppm	0.5285 ppm	0.5236 ppm	0.5100 ppm	0.4930 ppm	0.5027 ppm
Concentration per Run 1	0.4796 ppm	5.7718 ppm	0.5363 ppm	0.5291 ppm	0.5186 ppm	0.4961 ppm	0.5097 ppm
Concentration per Run 2	0.4695 ppm	5.6734 ppm	0.5288 ppm	0.5172 ppm	0.5097 ppm	0.4878 ppm	0.5029 ppm
Concentration per Run 3	0.4772 ppm	5.5797 ppm	0.5202 ppm	0.5246 ppm	0.5016 ppm	0.4951 ppm	0.4956 ppm
Recovery Percentage 1	95.080 %	108.095 %	105.695 %	104.728 %	101.996 %	98.602 %	100.550 %
Concentration RSD	1.1 %	1.7 %	1.5 %	1.1 %	1.7 %	0.9 %	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	0.4994 ppm	103.3464 %	102.3141 %	95.0046 %	89.6620 %	97.1331 %	92.0055 %
Concentration per Run 1	0.5092 ppm	101.5037 %	101.1279 %	94.8359 %	88.6236 %	96.7446 %	91.9761 %
Concentration per Run 2	0.4999 ppm	103.6658 %	104.2062 %	95.5706 %	89.8243 %	98.3748 %	92.4375 %
Concentration per Run 3	0.4892 ppm	104.8698 %	101.6082 %	94.6072 %	90.5380 %	96.2799 %	91.6028 %
Recovery Percentage 1	99.887 %						
Concentration RSD	2.0 %	1.7 %	1.6 %	0.5 %	1.1 %	1.1 %	0.5 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: CCB
Analysis started at: 12/20/2024 10:06:06 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	0.0000 ppm	0.0034 ppm	0.0004 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0020 ppm	-0.0005 ppm	0.0001 ppm	0.0001 ppm	0.0001 ppm	-0.0007 ppm
Concentration per Run 2	0.0001 ppm	0.0049 ppm	-0.0004 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 3	0.0001 ppm	0.0033 ppm	0.0022 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0008 ppm
Recovery Percentage 1	0.754 %	3.419 %	8.367 %	-0.218 %	1.354 %	0.881 %	-0.511 %
Concentration RSD	69.5 %	41.3 %	365.6 %	292.8 %	9.7 %	27.5 %	77.6 %

	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	-0.0003 ppm	0.0001 ppm	0.0006 ppm	0.0018 ppm	0.0138 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0005 ppm	0.0018 ppm	0.0226 ppm	0.0000 ppm
Concentration per Run 2	0.0001 ppm	-0.0008 ppm	0.0001 ppm	0.0008 ppm	0.0015 ppm	0.0102 ppm	0.0003 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0006 ppm	0.0019 ppm	0.0085 ppm	0.0000 ppm
Recovery Percentage 1	0.931 %	-3.419 %	1.062 %	6.362 %	3.512 %	0.551 %	0.863 %
Concentration RSD	102.9 %	108.9 %	62.7 %	25.8 %	10.7 %	56.2 %	231.7 %

	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	-0.0010 ppm	0.0001 ppm	0.0024 ppm	-0.0118 ppm	0.0002 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 1	-0.0007 ppm	0.0001 ppm	0.0026 ppm	-0.0149 ppm	0.0004 ppm	0.0007 ppm	0.0003 ppm
Concentration per Run 2	-0.0014 ppm	0.0000 ppm	0.0026 ppm	-0.0095 ppm	0.0003 ppm	0.0001 ppm	-0.0020 ppm
Concentration per Run 3	-0.0008 ppm	0.0001 ppm	0.0021 ppm	-0.0109 ppm	-0.0001 ppm	0.0009 ppm	0.0017 ppm
Recovery Percentage 1	-0.957 %	0.872 %	4.825 %	-0.589 %	0.746 %	5.816 %	-0.045 %
Concentration RSD	37.9 %	76.5 %	12.0 %	24.0 %	144.9 %	70.5 %	8,075.8 %

	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	-0.0016 ppm	-0.0001 ppm	0.0004 ppm	0.0000 ppm	0.0003 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 1	-0.0017 ppm	0.0005 ppm	0.0005 ppm	0.0001 ppm	0.0001 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 2	-0.0015 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0003 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 3	-0.0014 ppm	-0.0009 ppm	0.0005 ppm	0.0000 ppm	0.0004 ppm	-0.0002 ppm	0.0000 ppm
Recovery Percentage 1	-15.539 %	-0.024 %	0.864 %	0.418 %	2.778 %	-1.423 %	0.507 %
Concentration RSD	10.9 %	598.8 %	29.0 %	129.4 %	55.2 %	50.3 %	96.7 %

	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	0.0006 ppm	100.0120 %	101.0769 %	96.4407 %	92.2157 %	99.0463 %	94.0556 %
Concentration per Run 1	0.0006 ppm	99.5471 %	101.0219 %	96.7109 %	93.0530 %	99.0555 %	94.2022 %
Concentration per Run 2	0.0008 ppm	99.1766 %	100.5676 %	96.2629 %	91.2457 %	98.6850 %	94.3333 %
Concentration per Run 3	0.0005 ppm	101.3123 %	101.6413 %	96.3483 %	92.3483 %	99.3984 %	93.6314 %
Recovery Percentage 1	12.707 %						
Concentration RSD	29.7 %	1.1 %	0.5 %	0.2 %	1.0 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: CCV
Analysis started at: 12/20/2024 10:10:33 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	0.5062 ppm	0.4939 ppm	0.4658 ppm	0.4936 ppm	0.5095 ppm	0.5161 ppm	0.5181 ppm
Concentration per Run 1	0.5082 ppm	0.4992 ppm	0.4676 ppm	0.4990 ppm	0.5096 ppm	0.5177 ppm	0.5196 ppm
Concentration per Run 2	0.5079 ppm	0.4884 ppm	0.4631 ppm	0.4950 ppm	0.5125 ppm	0.5136 ppm	0.5143 ppm
Concentration per Run 3	0.5025 ppm	0.4941 ppm	0.4667 ppm	0.4868 ppm	0.5064 ppm	0.5170 ppm	0.5204 ppm
Recovery Percentage 1	101.246 %	98.784 %	93.160 %	98.721 %	101.901 %	103.216 %	103.623 %
Concentration RSD	0.6 %	1.1 %	0.5 %	1.3 %	0.6 %	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	0.4932 ppm	0.5148 ppm	0.5014 ppm	0.5068 ppm	0.5266 ppm	5.3762 ppm	0.5236 ppm
Concentration per Run 1	0.4968 ppm	0.5189 ppm	0.5038 ppm	0.5103 ppm	0.5280 ppm	5.3637 ppm	0.5217 ppm
Concentration per Run 2	0.4933 ppm	0.5164 ppm	0.5031 ppm	0.5075 ppm	0.5257 ppm	5.4200 ppm	0.5306 ppm
Concentration per Run 3	0.4894 ppm	0.5092 ppm	0.4973 ppm	0.5026 ppm	0.5261 ppm	5.3449 ppm	0.5185 ppm
Recovery Percentage 1	98.632 %	102.969 %	100.282 %	101.362 %	105.316 %	107.524 %	104.718 %
Concentration RSD	0.7 %	1.0 %	0.7 %	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	0.5092 ppm	0.4949 ppm	0.5061 ppm	10.4670 ppm	0.5151 ppm	0.4970 ppm	0.4995 ppm
Concentration per Run 1	0.5098 ppm	0.4974 ppm	0.5050 ppm	10.4132 ppm	0.5183 ppm	0.5006 ppm	0.5006 ppm
Concentration per Run 2	0.5110 ppm	0.4910 ppm	0.5050 ppm	10.5829 ppm	0.5170 ppm	0.4935 ppm	0.5012 ppm
Concentration per Run 3	0.5068 ppm	0.4964 ppm	0.5083 ppm	10.4049 ppm	0.5100 ppm	0.4969 ppm	0.4968 ppm
Recovery Percentage 1	101.841 %	98.986 %	101.219 %	104.670 %	103.020 %	99.398 %	99.909 %
Concentration RSD	0.4 %	0.7 %	0.4 %	1.0 %	0.9 %	0.7 %	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	0.4744 ppm	5.6581 ppm	0.5304 ppm	0.5267 ppm	0.5071 ppm	0.4935 ppm	0.5026 ppm
Concentration per Run 1	0.4784 ppm	5.6881 ppm	0.5324 ppm	0.5272 ppm	0.5107 ppm	0.4963 ppm	0.5056 ppm
Concentration per Run 2	0.4699 ppm	5.6721 ppm	0.5334 ppm	0.5279 ppm	0.5085 ppm	0.4908 ppm	0.5047 ppm
Concentration per Run 3	0.4749 ppm	5.6140 ppm	0.5253 ppm	0.5250 ppm	0.5021 ppm	0.4933 ppm	0.4975 ppm
Recovery Percentage 1	94.882 %	107.773 %	106.077 %	105.337 %	101.426 %	98.696 %	100.520 %
Concentration RSD	0.9 %	0.7 %	0.8 %	0.3 %	0.9 %	0.6 %	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	0.5016 ppm	103.1558 %	102.8474 %	94.9638 %	89.5814 %	97.4278 %	92.1489 %
Concentration per Run 1	0.5036 ppm	102.9401 %	102.6826 %	94.7579 %	90.0664 %	97.3237 %	92.1947 %
Concentration per Run 2	0.5031 ppm	102.8392 %	103.5930 %	95.1339 %	89.1816 %	98.1446 %	92.3913 %
Concentration per Run 3	0.4980 ppm	103.6880 %	102.2666 %	94.9997 %	89.4962 %	96.8149 %	91.8608 %
Recovery Percentage 1	100.312 %						
Concentration RSD	0.6 %	0.4 %	0.7 %	0.2 %	0.5 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: CCB
Analysis started at: 12/20/2024 10:15:00 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	0.0023 ppm	0.0010 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 1	0.0001 ppm	0.0023 ppm	0.0011 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0015 ppm
Concentration per Run 2	-0.0001 ppm	0.0011 ppm	0.0010 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0007 ppm
Concentration per Run 3	0.0000 ppm	0.0036 ppm	0.0009 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	-0.0009 ppm
Recovery Percentage 1	0.053 %	2.320 %	20.137 %	1.054 %	1.246 %	0.493 %	0.413 %
Concentration RSD	3,556.6 %	52.4 %	11.1 %	106.9 %	11.8 %	71.0 %	288.8 %

	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	-0.0001 ppm	0.0004 ppm	0.0004 ppm	0.0088 ppm	0.0003 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0006 ppm	0.0004 ppm	0.0132 ppm	0.0000 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0092 ppm	0.0004 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0003 ppm	0.0005 ppm	0.0040 ppm	0.0006 ppm
Recovery Percentage 1	1.656 %	-0.759 %	-1.082 %	3.656 %	0.778 %	0.352 %	3.176 %
Concentration RSD	31.1 %	311.8 %	49.5 %	54.6 %	37.6 %	52.7 %	84.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0006 ppm	0.0000 ppm	0.0024 ppm	-0.0134 ppm	-0.0001 ppm	0.0003 ppm	0.0029 ppm
Concentration per Run 1	-0.0004 ppm	-0.0001 ppm	0.0026 ppm	-0.0144 ppm	-0.0004 ppm	0.0003 ppm	0.0033 ppm
Concentration per Run 2	-0.0002 ppm	0.0000 ppm	0.0025 ppm	-0.0130 ppm	0.0005 ppm	0.0003 ppm	0.0025 ppm
Concentration per Run 3	-0.0012 ppm	0.0000 ppm	0.0021 ppm	-0.0129 ppm	-0.0004 ppm	0.0004 ppm	0.0029 ppm
Recovery Percentage 1	-0.607 %	-0.164 %	4.791 %	-0.671 %	-0.509 %	3.419 %	5.776 %
Concentration RSD	84.8 %	534.0 %	12.3 %	6.2 %	433.2 %	23.2 %	13.3 %

	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	-0.0021 ppm	-0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0002 ppm
Concentration per Run 1	-0.0018 ppm	0.0002 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	-0.0006 ppm	0.0001 ppm
Concentration per Run 2	-0.0009 ppm	-0.0026 ppm	-0.0005 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 3	-0.0037 ppm	-0.0017 ppm	0.0002 ppm	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	0.0003 ppm
Recovery Percentage 1	-21.450 %	-0.268 %	0.126 %	0.264 %	0.040 %	-1.532 %	2.034 %
Concentration RSD	64.8 %	106.6 %	858.5 %	56.5 %	3,850.0 %	85.0 %	55.1 %

	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	0.0006 ppm	99.8504 %	100.8570 %	96.3182 %	92.7324 %	98.3770 %	94.3038 %
Concentration per Run 1	0.0006 ppm	98.5607 %	100.1409 %	95.5815 %	92.5129 %	98.3522 %	94.2122 %
Concentration per Run 2	0.0007 ppm	99.7772 %	100.7597 %	96.5393 %	92.7057 %	98.4461 %	94.6107 %
Concentration per Run 3	0.0006 ppm	101.2134 %	101.6704 %	96.8338 %	92.9786 %	98.3328 %	94.0884 %
Recovery Percentage 1	12.415 %						
Concentration RSD	7.6 %	1.3 %	0.8 %	0.7 %	0.3 %	0.1 %	0.3 %

iCAP Pro Trace 8 Data report

12/21/2024 6:17:43 AM

LabBook: WG2011751_12202024T8.imexp

Sample: LLOQ
Analysis started at: 12/20/2024 10:19:26 PM
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	0.1003 ppm	0.0056 ppm	0.0290 ppm	0.0101 ppm	0.0050 ppm	0.0976 ppm
Concentration per Run 1	0.0050 ppm	0.1004 ppm	0.0060 ppm	0.0283 ppm	0.0100 ppm	0.0050 ppm	0.0963 ppm
Concentration per Run 2	0.0052 ppm	0.1014 ppm	0.0051 ppm	0.0299 ppm	0.0101 ppm	0.0051 ppm	0.1001 ppm
Concentration per Run 3	0.0052 ppm	0.0990 ppm	0.0056 ppm	0.0289 ppm	0.0100 ppm	0.0050 ppm	0.0963 ppm
Recovery Percentage 1	102.973 %	100.269 %	111.160 %	96.761 %	100.542 %	100.661 %	97.581 %
Concentration RSD	2.2 %	1.2 %	7.5 %	2.8 %	0.8 %	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	0.0040 ppm	0.0099 ppm	0.0100 ppm	0.0108 ppm	0.0556 ppm	2.6275 ppm	0.0106 ppm
Concentration per Run 1	0.0040 ppm	0.0097 ppm	0.0103 ppm	0.0109 ppm	0.0567 ppm	2.6367 ppm	0.0110 ppm
Concentration per Run 2	0.0041 ppm	0.0101 ppm	0.0099 ppm	0.0109 ppm	0.0556 ppm	2.6423 ppm	0.0102 ppm
Concentration per Run 3	0.0040 ppm	0.0100 ppm	0.0099 ppm	0.0106 ppm	0.0544 ppm	2.6036 ppm	0.0105 ppm
Recovery Percentage 1	99.948 %	99.483 %	100.320 %	107.744 %	111.153 %	105.101 %	105.659 %
Concentration RSD	1.3 %	2.2 %	2.0 %	1.8 %	2.0 %	0.8 %	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	0.1022 ppm	0.0099 ppm	0.0516 ppm	2.0047 ppm	0.0202 ppm	0.0100 ppm	0.0513 ppm
Concentration per Run 1	0.1018 ppm	0.0099 ppm	0.0512 ppm	2.0394 ppm	0.0199 ppm	0.0101 ppm	0.0510 ppm
Concentration per Run 2	0.1030 ppm	0.0100 ppm	0.0516 ppm	1.9848 ppm	0.0212 ppm	0.0105 ppm	0.0533 ppm
Concentration per Run 3	0.1017 ppm	0.0099 ppm	0.0520 ppm	1.9898 ppm	0.0196 ppm	0.0093 ppm	0.0498 ppm
Recovery Percentage 1	102.194 %	99.447 %	103.143 %	100.234 %	80.896 %	99.713 %	102.695 %
Concentration RSD	0.7 %	0.4 %	0.8 %	1.5 %	4.3 %	5.8 %	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	0.0077 ppm	0.5080 ppm	0.0512 ppm	0.0100 ppm	0.0101 ppm	0.0190 ppm	0.0101 ppm
Concentration per Run 1	0.0081 ppm	0.5073 ppm	0.0509 ppm	0.0100 ppm	0.0102 ppm	0.0196 ppm	0.0101 ppm
Concentration per Run 2	0.0059 ppm	0.5148 ppm	0.0517 ppm	0.0100 ppm	0.0102 ppm	0.0189 ppm	0.0101 ppm
Concentration per Run 3	0.0090 ppm	0.5018 ppm	0.0511 ppm	0.0099 ppm	0.0098 ppm	0.0185 ppm	0.0100 ppm
Recovery Percentage 1	76.991 %	101.590 %	102.474 %	99.756 %	100.643 %	94.844 %	100.568 %
Concentration RSD	20.7 %	1.3 %	0.9 %	0.6 %	2.0 %	2.9 %	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	0.0049 ppm	103.1359 %	101.9558 %	97.5184 %	91.4531 %	97.6406 %	93.3349 %
Concentration per Run 1	0.0048 ppm	102.8305 %	102.6268 %	96.3246 %	92.2204 %	98.6442 %	92.7384 %
Concentration per Run 2	0.0049 ppm	102.4110 %	100.8370 %	98.0629 %	90.7160 %	96.8811 %	93.9270 %
Concentration per Run 3	0.0049 ppm	104.1663 %	102.4036 %	98.1677 %	91.4229 %	97.3966 %	93.3394 %
Recovery Percentage 1	97.584 %						
Concentration RSD	1.0 %	0.9 %	1.0 %	1.1 %	0.8 %	0.9 %	0.6 %

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

16341 Table Mountain Pkwy ▪ Golden, CO 80403 ▪ T: 800.372.0122 ▪ 303.431.8454 ▪ www.eraqc.com

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck



ERA
A Waters Company

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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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.

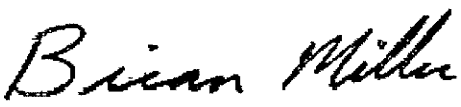
8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

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



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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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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 6

12/20/2024 9:57:41 AM

LabBook: WG2011242_12192024T6.imexp

Index:	Label:	Rack	Vial	Start time:
1	Blank JMF Trace6	0	1	12/19/2024 9:03:39 AM
2	ICAL	0	2	12/19/2024 9:10:23 AM
3	ICV	0	3	12/19/2024 9:24:23 AM
4	ICB	0	4	12/19/2024 9:30:48 AM
5	ICV	0	10	12/19/2024 9:37:35 AM
6	ICB	0	4	12/19/2024 9:44:03 AM
7	LLOQ RL Check	0	5	12/19/2024 9:50:50 AM
8	ICSA	0	6	12/19/2024 9:57:34 AM
9	SIC Cr Mn V Ti	0	7	12/19/2024 10:06:30 AM
10	zLLOQ 0.01ppm	1	1	12/19/2024 10:18:02 AM
11	LLOQ 0.005ppm As	1	2	12/19/2024 10:24:45 AM
12	LDR 400 Fe pass	1	3	12/19/2024 10:31:28 AM
13	LDR 800 Ca pass	1	4	12/19/2024 10:39:18 AM
14	xLDR Check	0	8	12/19/2024 10:47:08 AM
15	LDR Check	0	8	12/19/2024 11:25:59 AM
16	LDR 20 As Pass	1	5	12/19/2024 11:40:53 AM
17	LDR 5 Sb Pass	1	6	12/19/2024 11:47:36 AM
18	CCV	0	3	12/19/2024 12:02:48 PM
19	CCB	0	4	12/19/2024 12:09:14 PM
20	WG2011116-1 WG2011116	1	7	12/19/2024 12:37:49 PM
21	WG2011116-2 WG2011116	1	8	12/19/2024 12:44:35 PM
22	L2472648-02 WG2011116	1	9	12/19/2024 12:50:59 PM
23	WG2011116-3 WG2011116	1	10	12/19/2024 12:57:41 PM
24	WG2011116-4 WG2011116	1	11	12/19/2024 1:04:06 PM
25	L2472648-04 WG2011116	1	12	12/19/2024 1:10:48 PM
26	L2472648-06 WG2011116	1	13	12/19/2024 1:17:30 PM
27	L2472649-02 WG2011116	1	14	12/19/2024 1:24:07 PM
28	L2472649-04 WG2011116	1	15	12/19/2024 1:30:47 PM
29	L2472649-06 WG2011116	1	16	12/19/2024 1:37:25 PM
30	CCV	0	3	12/19/2024 1:44:04 PM
31	CCB	0	4	12/19/2024 1:50:30 PM
32	L2472649-08 WG2011116	1	17	12/19/2024 2:02:39 PM
33	L2472649-10 WG2011116	1	18	12/19/2024 2:09:21 PM
34	L2472649-12 WG2011116	1	19	12/19/2024 2:15:59 PM
35	L2472939-01 WG2011116	1	20	12/19/2024 2:22:39 PM
36	CCV	0	3	12/19/2024 2:29:21 PM
37	CCB	0	4	12/19/2024 2:35:46 PM
38	WG2010972-1 WG2010972	1	21	12/19/2024 3:06:42 PM
39	L2473010-02 WG2010972	1	29	12/19/2024 3:13:27 PM
40	L2473251-03 WG2010972	1	39	12/19/2024 3:20:12 PM
41	L2473668-17 WG2010972	1	40	12/19/2024 3:26:56 PM
42	WG2010972-2 WG2010972	1	22	12/19/2024 3:33:41 PM
43	L2473051-01 WG2010972	1	23	12/19/2024 3:40:05 PM
44	WG2010972-3 WG2010972	1	24	12/19/2024 3:46:45 PM
45	WG2010972-4 WG2010972	1	25	12/19/2024 3:53:48 PM
46	WG2010972-5 WG2010972	1	26	12/19/2024 4:00:29 PM
47	WG2010972-6D5 WG2010972	1	27	12/19/2024 4:06:50 PM
48	CCV	0	3	12/19/2024 4:13:30 PM
49	CCB	0	4	12/19/2024 4:19:55 PM
50	L2473010-01 WG2010972	1	28	12/19/2024 4:32:28 PM
51	L2473010-03 WG2010972	1	30	12/19/2024 4:39:03 PM
52	L2473051-02 WG2010972	1	31	12/19/2024 4:45:48 PM
53	L2473062-01 WG2010972	1	32	12/19/2024 4:52:26 PM
54	L2473205-01 WG2010972	1	33	12/19/2024 4:59:14 PM
55	L2473205-02 WG2010972	1	34	12/19/2024 5:05:53 PM
56	L2473205-03 WG2010972	1	35	12/19/2024 5:12:32 PM
57	L2473205-04 WG2010972	1	36	12/19/2024 5:19:11 PM
58	L2473251-01 WG2010972	1	37	12/19/2024 5:26:11 PM
59	L2473251-02 WG2010972	1	38	12/19/2024 5:32:51 PM
60	CCV	0	3	12/19/2024 5:40:06 PM
61	CCB	0	4	12/19/2024 5:46:59 PM
62	WG2010950-1 WG2010950	1	41	12/19/2024 6:06:40 PM
63	WG2010950-2 WG2010950	1	42	12/19/2024 6:13:27 PM
64	L2473067-01 WG2010950	1	48	12/19/2024 6:19:51 PM
65	L2473069-01 WG2010950	1	49	12/19/2024 6:27:11 PM
66	L2473492-01 WG2010950	1	50	12/19/2024 6:34:03 PM
67	L2473872-01 WG2010950	1	43	12/19/2024 6:40:41 PM
68	WG2010950-3 WG2010950	1	44	12/19/2024 6:47:20 PM
69	WG2010950-4 WG2010950	1	45	12/19/2024 6:53:43 PM
70	WG2010950-5 WG2010950	1	46	12/19/2024 7:00:25 PM
71	WG2010950-6D5 WG2010950	1	47	12/19/2024 7:06:48 PM
72	CCV	0	3	12/19/2024 7:13:33 PM

Sequence Trace 6

12/20/2024 9:57:41 AM

Index:	Label:	Rack	Vial	Start time:
73	CCB	0	4	12/19/2024 7:19:58 PM
74	WG2010915-1 WG2010915	1	51	12/19/2024 8:03:49 PM
75	WG2010915-2 WG2010915	1	52	12/19/2024 8:10:33 PM
76	L2473538-02 WG2010915	2	4	12/19/2024 8:16:55 PM
77	L2473538-03 WG2010915	2	5	12/19/2024 8:23:35 PM
78	L2473538-01 WG2010915	2	3	12/19/2024 8:30:14 PM
79	L2474304-01 WG2010915	1	53	12/19/2024 8:36:53 PM
80	WG2010915-3 WG2010915	1	54	12/19/2024 8:43:30 PM
81	WG2010915-4 WG2010915	1	55	12/19/2024 8:49:51 PM
82	WG2010915-5 WG2010915	1	56	12/19/2024 8:56:29 PM
83	WG2010915-6d5 WG2010915	1	57	12/19/2024 9:02:51 PM
84	CCV	0	3	12/19/2024 9:09:30 PM
85	CCB	0	4	12/19/2024 9:15:56 PM
86	CCV	0	3	12/19/2024 9:50:36 PM
87	CCB	0	4	12/19/2024 9:57:01 PM
88	L2473538-04 WG2010915	2	6	12/19/2024 10:09:08 PM
89	L2473538-05 WG2010915	2	7	12/19/2024 10:15:49 PM
90	L2473642-01 WG2010915	2	8	12/19/2024 10:22:28 PM
91	L2473756-01 WG2010915	2	9	12/19/2024 10:29:08 PM
92	L2474329-01 WG2010915	2	10	12/19/2024 10:35:45 PM
93	L2474304-02 WG2010915	1	58	12/19/2024 10:42:26 PM
94	WG2010915-7 WG2010915	1	59	12/19/2024 10:49:07 PM
95	WG2010915-8 WG2010915	1	60	12/19/2024 10:55:32 PM
96	WG2010915-9 WG2010915	2	1	12/19/2024 11:02:14 PM
97	WG2010915-10d5 WG2010915	2	2	12/19/2024 11:08:38 PM
98	CCV	0	3	12/19/2024 11:15:18 PM
99	CCB	0	4	12/19/2024 11:21:44 PM
100	L2474329-02 WG2010915	2	11	12/19/2024 11:28:31 PM
101	L2474329-03 WG2010915	2	12	12/19/2024 11:35:11 PM
102	L2474329-04 WG2010915	2	13	12/19/2024 11:41:52 PM
103	L2474329-05 WG2010915	2	14	12/19/2024 11:48:32 PM
104	CCV	0	3	12/19/2024 11:55:17 PM
105	CCB	0	4	12/20/2024 12:01:43 AM
106	CCV	0	3	12/20/2024 12:08:30 AM
107	CCB	0	4	12/20/2024 12:14:55 AM
108	LLOQ RL check	0	5	12/20/2024 12:21:40 AM

Sequence Trace 8

12/20/2024 10:10:45 AM

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

12/20/2024 10:10:45 AM

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	eL2473015-03D2 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	12/19/2024 2:25:48 PM
99	WG2010388-3D2 WG2010388	2	3	12/19/2024 2:30:35 PM
100	WG2010388-4D2 WG2010388	2	4	12/19/2024 2:35:02 PM
101	WG2010388-5D2 WG2010388	2	5	12/19/2024 2:39:28 PM
102	WG2010388-6D10 WG2010388	2	6	12/19/2024 2:43:57 PM
103	CCV	0	3	12/19/2024 2:48:24 PM
104	CCB	0	4	12/19/2024 2:52:50 PM
105	L2473015-05D2 WG2010388	2	10	12/19/2024 3:13:21 PM
106	L2473015-06D2 WG2010388	2	11	12/19/2024 3:17:56 PM
107	L2473015-07D2 WG2010388	2	12	12/19/2024 3:22:23 PM
108	L2473015-08D2 WG2010388	2	13	12/19/2024 3:26:50 PM
109	L2473015-09D2 WG2010388	2	14	12/19/2024 3:31:16 PM
110	L2473015-10D2 WG2010388	2	15	12/19/2024 3:35:42 PM
111	L2473015-11D2 WG2010388	2	16	12/19/2024 3:40:09 PM
112	L2473015-12D2 WG2010388	2	17	12/19/2024 3:44:35 PM
113	L2473015-13D2 WG2010388	2	18	12/19/2024 3:49:01 PM
114	L2473015-14D2 WG2010388	2	19	12/19/2024 3:53:27 PM
115	CCV	0	3	12/19/2024 3:57:54 PM
116	CCB	0	4	12/19/2024 4:02:20 PM
117	L2472901-05d2 WG2010397	2	24	12/19/2024 4:10:27 PM
118	L2472901-06d2 WG2010397	2	25	12/19/2024 4:15:03 PM
119	L2472901-07d2 WG2010397	2	26	12/19/2024 4:19:30 PM
120	xL2473015-13D4 WG2010388	2	27	12/19/2024 4:23:58 PM
121	L2473015-03D4 WG2010388	2	28	12/19/2024 4:31:06 PM
122	CCV	0	3	12/19/2024 4:36:29 PM
123	CCB	0	4	12/19/2024 4:40:57 PM
124	WG2010999-1 WG2010999	2	29	12/19/2024 4:58:36 PM
125	WG2010999-2 WG2010999	2	30	12/19/2024 5:03:23 PM
126	L2473137-01 WG2010999	2	31	12/19/2024 5:19:59 PM
127	WG2010999-3 WG2010999	2	32	12/19/2024 5:24:46 PM
128	WG2010999-4 WG2010999	2	33	12/19/2024 5:29:13 PM
129	L2473137-02 WG2010999	2	34	12/19/2024 5:33:40 PM
130	L2473137-03 WG2010999	2	35	12/19/2024 5:38:08 PM
131	L2473137-04 WG2010999	2	36	12/19/2024 5:42:36 PM
132	L2473137-05 WG2010999	2	37	12/19/2024 5:47:07 PM
133	CCV	0	3	12/19/2024 5:51:35 PM
134	CCB	0	4	12/19/2024 5:56:02 PM
135	WG2011336-1 WG2011336	2	38	12/19/2024 6:15:49 PM
136	WG2011336-2d2 WG2011336	2	39	12/19/2024 6:21:02 PM
137	L2474520-03d2 WG2011336	2	47	12/19/2024 6:25:29 PM
138	L2474520-02d2 WG2011336	2	46	12/19/2024 6:29:58 PM
139	L2473529-35d2 WG2011336	2	45	12/19/2024 6:34:25 PM
140	L2474520-01d2 WG2011336	2	40	12/19/2024 6:38:53 PM
141	WG2011336-3d2 WG2011336	2	41	12/19/2024 6:43:20 PM
142	WG2011336-4d2 WG2011336	2	42	12/19/2024 6:47:54 PM

Sequence Trace 8

12/20/2024 10:10:45 AM

Index	Label	Rack	Vial	Started at
143	WG2011336-5d2 WG2011336	2	43	12/19/2024 6:52:22 PM
144	WG2011336-6d10 WG2011336	2	44	12/19/2024 6:56:53 PM
145	CCV	0	3	12/19/2024 7:01:21 PM
146	CCB	0	4	12/19/2024 7:05:48 PM
147	L2474520-04d2 WG2011336	2	48	12/19/2024 7:14:48 PM
148	L2474520-05d2 WG2011336	2	49	12/19/2024 7:20:12 PM
149	L2474520-06d2 WG2011336	2	50	12/19/2024 7:24:40 PM
150	L2474520-07d2 WG2011336	2	51	12/19/2024 7:29:08 PM
151	L2474520-08d2 WG2011336	2	52	12/19/2024 7:33:35 PM
152	L2474520-09d2 WG2011336	2	53	12/19/2024 7:38:03 PM
153	L2474520-10d2 WG2011336	2	54	12/19/2024 7:42:31 PM
154	L2474520-11d2 WG2011336	2	55	12/19/2024 7:46:59 PM
155	L2474520-12d2 WG2011336	2	56	12/19/2024 7:51:30 PM
156	L2474520-13d2 WG2011336	2	57	12/19/2024 7:55:58 PM
157	CCV	0	3	12/19/2024 8:00:26 PM
158	CCB	0	4	12/19/2024 8:04:53 PM
159	L2474520-14d2 WG2011336	2	58	12/19/2024 8:10:31 PM
160	L2474520-15d2 WG2011336	2	59	12/19/2024 8:15:03 PM
161	L2474520-16d2 WG2011336	2	60	12/19/2024 8:19:32 PM
162	L2474520-17d2 WG2011336	3	1	12/19/2024 8:24:02 PM
163	L2474520-18d2 WG2011336	3	2	12/19/2024 8:28:36 PM
164	L2474520-19d2 WG2011336	3	3	12/19/2024 8:33:05 PM
165	CCV	0	3	12/19/2024 8:39:07 PM
166	CCB	0	4	12/19/2024 8:43:48 PM
167	WG2011488-1 WG2011488	3	4	12/19/2024 9:00:39 PM
168	WG2011488-2D2 WG2011488	3	5	12/19/2024 9:05:15 PM
169	WG2011333-3D2 WG2011333	3	6	12/19/2024 9:09:45 PM
170	L2474646-02D2 WG2011333	3	13	12/19/2024 9:14:13 PM
171	L2409778-196D2 WG2011488	3	7	12/19/2024 9:18:42 PM
172	WG2011488-3D2 WG2011488	3	8	12/19/2024 9:23:11 PM
173	WG2011333-4D2 WG2011333	3	9	12/19/2024 9:27:42 PM
174	WG2011488-4D2 WG2011488	3	10	12/19/2024 9:32:11 PM
175	WG2011488-5D2 WG2011488	3	11	12/19/2024 9:36:39 PM
176	WG2011488-6D10 WG2011488	3	12	12/19/2024 9:41:08 PM
177	CCV	0	3	12/19/2024 9:45:39 PM
178	CCB	0	4	12/19/2024 9:50:06 PM
179	WG2010950-2 WG2010950	3	31	12/19/2024 9:55:12 PM
180	CCV	0	3	12/19/2024 9:59:41 PM
181	CCB	0	4	12/19/2024 10:04:09 PM
182	L2474646-05D2 WG2011333	3	14	12/19/2024 10:22:42 PM
183	L2474646-09D2 WG2011333	3	15	12/19/2024 10:27:32 PM
184	L2474646-13D2 WG2011333	3	16	12/19/2024 10:32:01 PM
185	L2474646-16D2 WG2011333	3	17	12/19/2024 10:36:31 PM
186	L2474646-17D2 WG2011333	3	18	12/19/2024 10:41:02 PM
187	L2474646-18D2 WG2011333	3	19	12/19/2024 10:45:31 PM
188	L2474714-01D2 WG2011488	3	20	12/19/2024 10:50:00 PM
189	L2474714-02D2 WG2011488	3	21	12/19/2024 10:54:29 PM
190	L2474714-03D2 WG2011488	3	22	12/19/2024 10:58:58 PM
191	CCV	0	3	12/19/2024 11:03:28 PM
192	CCB	0	4	12/19/2024 11:07:55 PM
193	L2474714-04D2 WG2011488	3	23	12/19/2024 11:12:23 PM
194	L2474714-05D2 WG2011488	3	24	12/19/2024 11:17:01 PM
195	L2474714-06D2 WG2011488	3	25	12/19/2024 11:21:30 PM
196	L2474714-07D2 WG2011488	3	26	12/19/2024 11:25:59 PM
197	L2474714-08D2 WG2011488	3	27	12/19/2024 11:30:29 PM
198	L2474714-09D2 WG2011488	3	28	12/19/2024 11:34:58 PM
199	L2474714-10D2 WG2011488	3	29	12/19/2024 11:39:27 PM
200	L2474714-11D2 WG2011488	3	30	12/19/2024 11:43:57 PM
201	CCV	0	3	12/19/2024 11:48:26 PM
202	CCB	0	4	12/19/2024 11:52:54 PM
203	CCV	0	3	12/19/2024 11:57:22 PM
204	CCB	0	4	12/20/2024 12:01:50 AM
205	LLOQ	0	5	12/20/2024 12:06:18 AM

Sequence Trace 8

12/21/2024 6:18:18 AM

LabBook: WG2011751_12202024T8.imexp

Summary

Index	Label	Rack	Vial	Started at
1	Blank DMC Trace8	0	1	12/20/2024 9:17:58 AM
2	ICAL	0	2	12/20/2024 9:22:15 AM
3	ICV	0	3	12/20/2024 9:26:38 AM
4	ICB	0	4	12/20/2024 9:31:02 AM
5	ICV	0	10	12/20/2024 9:37:25 AM
6	ICB	0	4	12/20/2024 9:41:59 AM
7	LLOQ	0	5	12/20/2024 9:46:24 AM
8	ICSA	0	6	12/20/2024 9:51:04 AM
9	SIC Multi	0	7	12/20/2024 9:56:30 AM
10	LDR Check	0	8	12/20/2024 10:01:30 AM
11	xLLOQ 0.005	1	1	12/20/2024 10:21:32 AM
12	LLOQ 0.01ppm Se	1	2	12/20/2024 10:26:02 AM
13	LDR 20PPM As pass	1	3	12/20/2024 10:30:25 AM
14	XLDR 50PPM Ni	1	4	12/20/2024 10:34:50 AM
15	LDR 200PPM Fe pass	1	5	12/20/2024 10:39:44 AM
16	LDR 500PPM Na pass	1	6	12/20/2024 10:45:10 AM
17	XLDR 500PPM FE	1	7	12/20/2024 10:50:38 AM
18	LDR 1000PPM Ca pass	1	8	12/20/2024 10:56:08 AM
19	LLOQ 0.005ppm As	1	1	12/20/2024 11:03:40 AM
20	SIC LDR 50PPM Ni pass No IECs applied	1	4	12/20/2024 11:08:10 AM
21	CCV	0	3	12/20/2024 11:14:01 AM
22	CCB	0	4	12/20/2024 11:18:29 AM
23	L2473538-01 WG2010403	1	9	12/20/2024 11:27:28 AM
24	L2473538-02 WG2010403	1	10	12/20/2024 11:32:00 AM
25	L2473538-03 WG2010403	1	11	12/20/2024 11:36:26 AM
26	L2473538-04 WG2010403	1	12	12/20/2024 11:40:52 AM
27	L2473538-05 WG2010403	1	13	12/20/2024 11:45:19 AM
28	L2473270-01 WG2010529	1	14	12/20/2024 11:49:42 AM
29	L2473270-02 WG2010529	1	15	12/20/2024 11:54:04 AM
30	L2473270-03 WG2010529	1	16	12/20/2024 11:58:27 AM
31	L2473270-04 WG2010529	1	17	12/20/2024 12:02:50 PM
32	L2473303-01 WG2010529	1	18	12/20/2024 12:07:14 PM
33	CCV	0	3	12/20/2024 12:11:39 PM
34	CCB	0	4	12/20/2024 12:16:03 PM
35	L2473303-02 WG2010529	1	19	12/20/2024 12:23:09 PM
36	L2473303-03 WG2010529	1	20	12/20/2024 12:27:39 PM
37	L2473304-01 WG2010529	1	21	12/20/2024 12:32:04 PM
38	L2473305-01 WG2010529	1	22	12/20/2024 12:36:29 PM
39	L2473685-01 WG2010529	1	23	12/20/2024 12:40:53 PM
40	CCV	0	3	12/20/2024 12:45:19 PM
41	CCB	0	4	12/20/2024 12:49:43 PM
42	WG2011688-1 WG2011688	1	24	12/20/2024 1:02:17 PM
43	WG2011688-2d2 WG2011688	1	25	12/20/2024 1:06:58 PM
44	L2475139-02d2 WG2011688	1	31	12/20/2024 1:11:21 PM
45	L2474933-01d2 WG2011688	1	26	12/20/2024 1:15:46 PM
46	WG2011688-3d2 WG2011688	1	27	12/20/2024 1:20:09 PM
47	WG2011688-4d2 WG2011688	1	28	12/20/2024 1:24:32 PM
48	WG2011688-5d2 WG2011688	1	29	12/20/2024 1:28:58 PM
49	WG2011688-6d10 WG2011688	1	30	12/20/2024 1:33:22 PM
50	CCV	0	3	12/20/2024 1:37:46 PM
51	CCB	0	4	12/20/2024 1:42:11 PM
52	WG2011483-1 WG2011483	1	53	12/20/2024 1:53:19 PM
53	WG2011483-2d2 WG2011483	1	54	12/20/2024 1:57:59 PM
54	L2473618-01d2 WG2011483	1	55	12/20/2024 2:02:23 PM
55	WG2011483-3d2 WG2011483	1	56	12/20/2024 2:06:48 PM
56	WG2011483-4d2 WG2011483	1	57	12/20/2024 2:11:13 PM
57	WG2011483-5d2 WG2011483	1	58	12/20/2024 2:15:38 PM
58	WG2011483-6d10 WG2011483	1	59	12/20/2024 2:20:04 PM
59	xL2473553-01d2 WG2011483	2	7	12/20/2024 2:24:30 PM
60	L2473618-02d2 WG2011483	2	8	12/20/2024 2:28:55 PM
61	L2473618-03d2 WG2011483	2	9	12/20/2024 2:33:20 PM
62	CCV	0	3	12/20/2024 2:37:46 PM
63	CCB	0	4	12/20/2024 2:42:10 PM
64	L2473618-04d2 WG2011483	2	10	12/20/2024 2:47:17 PM
65	L2473618-07d2 WG2011483	2	11	12/20/2024 2:51:52 PM
66	L2473618-08d2 WG2011483	2	12	12/20/2024 2:56:18 PM
67	L2473618-10d2 WG2011483	2	13	12/20/2024 3:00:44 PM
68	L2473553-01d4 WG2011483	2	14	12/20/2024 3:05:09 PM

Sequence Trace 8

12/21/2024 6:18:18 AM

Index	Label	Rack	Vial	Started at
69	L2473553-01d20 WG2011483	2	15	12/20/2024 3:09:54 PM
70	CCV	0	3	12/20/2024 3:14:19 PM
71	CCB	0	4	12/20/2024 3:18:45 PM
72	xWG2011408-1 WG2011408	2	16	12/20/2024 3:32:00 PM
73	WG2011408-1 WG2011408	2	16	12/20/2024 3:35:42 PM
74	WG2011408-2d2 WG2011408	2	17	12/20/2024 3:40:23 PM
75	WG2011408-3d2 WG2011408	2	18	12/20/2024 3:44:48 PM
76	L2473615-01d2 WG2011408	2	19	12/20/2024 3:49:13 PM
77	L2473615-02d2 WG2011408	2	20	12/20/2024 3:53:38 PM
78	L2473615-03d2 WG2011408	2	21	12/20/2024 3:58:03 PM
79	L2473625-01d2 WG2011408	2	22	12/20/2024 4:02:28 PM
80	L2473625-02d2 WG2011408	2	23	12/20/2024 4:06:54 PM
81	L2473625-03d2 WG2011408	2	24	12/20/2024 4:11:20 PM
82	CCV	0	3	12/20/2024 4:15:47 PM
83	CCB	0	4	12/20/2024 4:20:12 PM
84	WG2011473-1 WG2011473	1	32	12/20/2024 4:27:32 PM
85	L2473626-01d2 WG2011408	2	25	12/20/2024 4:32:15 PM
86	L2473626-02d2 WG2011408	2	26	12/20/2024 4:36:40 PM
87	L2473626-03d2 WG2011408	2	27	12/20/2024 4:41:05 PM
88	L2473629-01d2 WG2011408	2	28	12/20/2024 4:45:30 PM
89	L2473629-02d2 WG2011408	2	29	12/20/2024 4:49:55 PM
90	L2473629-06d2 WG2011408	2	30	12/20/2024 4:54:20 PM
91	L2473633-01d2 WG2011408	2	31	12/20/2024 4:58:45 PM
92	L2473633-02d2 WG2011408	2	32	12/20/2024 5:03:11 PM
93	L2473633-03d2 WG2011408	2	33	12/20/2024 5:07:36 PM
94	CCV	0	3	12/20/2024 5:12:02 PM
95	CCB	0	4	12/20/2024 5:16:27 PM
96	L2473637-01d2 WG2011408	2	34	12/20/2024 5:27:12 PM
97	CCV	0	3	12/20/2024 5:31:55 PM
98	CCB	0	4	12/20/2024 5:36:20 PM
99	WG2011473-2 WG2011473	1	33	12/20/2024 5:44:02 PM
100	L2472821-02 WG2011473	1	39	12/20/2024 5:48:47 PM
101	L2472872-01 WG2011473	1	42	12/20/2024 5:53:10 PM
102	L2473485-01d2 WG2011483	1	60	12/20/2024 5:57:35 PM
103	L2473485-02d2 WG2011483	2	1	12/20/2024 6:02:02 PM
104	xL2473485-03d2 WG2011483	2	2	12/20/2024 6:06:27 PM
105	xL2473485-04d2 WG2011483	2	3	12/20/2024 6:10:52 PM
106	L2473504-01d2 WG2011483	2	4	12/20/2024 6:15:17 PM
107	L2473504-02d2 WG2011483	2	5	12/20/2024 6:19:42 PM
108	L2473504-03d2 WG2011483	2	6	12/20/2024 6:23:35 PM
109	CCV	0	3	12/20/2024 6:28:11 PM
110	CCB	0	4	12/20/2024 6:32:36 PM
111	L2472872-02 WG2011473	1	43	12/20/2024 6:52:23 PM
112	L2472872-03 WG2011473	1	44	12/20/2024 6:57:03 PM
113	L2472822-01 WG2011473	1	40	12/20/2024 7:01:29 PM
114	L2472827-01 WG2011473	1	41	12/20/2024 7:05:53 PM
115	L2472973-01 WG2011473	1	45	12/20/2024 7:10:18 PM
116	L2472821-01 WG2011473	1	34	12/20/2024 7:14:44 PM
117	WG2011473-3 WG2011473	1	35	12/20/2024 7:19:10 PM
118	WG2011473-4 WG2011473	1	36	12/20/2024 7:23:37 PM
119	WG2011473-5 WG2011473	1	37	12/20/2024 7:28:04 PM
120	WG2011473-6D5 WG2011473	1	38	12/20/2024 7:32:29 PM
121	CCV	0	3	12/20/2024 7:36:54 PM
122	CCB	0	4	12/20/2024 7:41:19 PM
123	L2472975-01 WG2011473	1	46	12/20/2024 7:47:55 PM
124	L2472975-02 WG2011473	1	47	12/20/2024 7:52:28 PM
125	L2473323-01 WG2011473	1	48	12/20/2024 7:56:54 PM
126	L2473323-02 WG2011473	1	49	12/20/2024 8:01:22 PM
127	L2473323-03 WG2011473	1	50	12/20/2024 8:05:47 PM
128	L2473323-04 WG2011473	1	51	12/20/2024 8:10:13 PM
129	L2473323-05 WG2011473	1	52	12/20/2024 8:14:38 PM
130	L2473485-03d10 WG2011483	2	35	12/20/2024 8:19:03 PM
131	L2473485-04d10 WG2011483	2	36	12/20/2024 8:23:31 PM
132	L2473504-03d10 WG2011483	2	37	12/20/2024 8:27:58 PM
133	CCV	0	3	12/20/2024 8:32:24 PM
134	CCB	0	4	12/20/2024 8:36:50 PM
135	L2472822-01d2 WG2011473	2	38	12/20/2024 8:41:40 PM
136	L2472827-01d2 WG2011473	2	39	12/20/2024 8:46:06 PM
137	L2472973-01d2 WG2011473	2	40	12/20/2024 8:50:33 PM
138	CCV	0	3	12/20/2024 9:00:03 PM
139	CCB	0	4	12/20/2024 9:04:35 PM
140	CCV	0	3	12/20/2024 9:09:02 PM
141	CCB	0	4	12/20/2024 9:13:29 PM
142	L2472389-01d2 WG2011327	2	41	12/20/2024 9:21:22 PM

Sequence Trace 8

12/21/2024 6:18:18 AM

Index	Label	Rack	Vial	Started at
143	L2473921-01d2 WG2011327	2	42	12/20/2024 9:26:03 PM
144	L2474105-01d2 WG2011327	2	43	12/20/2024 9:30:30 PM
145	L2474306-01d2 WG2011327	2	44	12/20/2024 9:34:56 PM
146	L2474312-01d2 WG2011327	2	45	12/20/2024 9:39:23 PM
147	L2474464-01d2 WG2011327	2	46	12/20/2024 9:43:50 PM
148	L2474464-02d2 WG2011327	2	47	12/20/2024 9:48:17 PM
149	L2474464-03d2 WG2011327	2	48	12/20/2024 9:52:44 PM
150	L2474464-04d2 WG2011327	2	49	12/20/2024 9:57:13 PM
151	CCV	0	3	12/20/2024 10:01:40 PM
152	CCB	0	4	12/20/2024 10:06:06 PM
153	CCV	0	3	12/20/2024 10:10:33 PM
154	CCB	0	4	12/20/2024 10:15:00 PM
155	LLOQ	0	5	12/20/2024 10:19:26 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: 20-DEC-24 02:24 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: 20-DEC-24 02:24 PM

METALS ELN REPORT

Workgroup: WG2010915

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	tHNO324490 70855EFM	1:1 HCl	tHCL244614 0154FAC	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
L2473538-01 SAMP	12/18/24 18:46	Nathan Downs	50	<2		12/18/24 18:46	7	95.2	12/18/24 21:46	50	
L2473538-02 SAMP	12/18/24 18:46	Nathan Downs	50	<2		12/18/24 18:46	7	95.2	12/18/24 21:46	50	
L2473538-03 SAMP	12/18/24 18:46	Nathan Downs	50	<2		12/18/24 18:46	7	95.2	12/18/24 21:46	50	
L2473538-04 SAMP	12/18/24 18:46	Nathan Downs	50	<2		12/18/24 18:46	7	95.2	12/18/24 21:46	50	
L2473538-05 SAMP	12/18/24 18:46	Nathan Downs	50	<2		12/18/24 18:46	7	95.2	12/18/24 21:46	50	
L2473642-01 SAMP	12/18/24 18:46	Nathan Downs	50	<2		12/18/24 18:46	7	95.2	12/18/24 21:46	50	
L2473756-01 WATER	12/18/24 18:46	Nathan Downs	50	<2		12/18/24 18:46	7	95.2	12/18/24 21:46	50	
L2474304-01 SAMP	12/18/24 18:46	Nathan Downs	50	<2		12/18/24 18:46	7	95.2	12/18/24 21:46	50	
L2474304-02 SAMP	12/18/24 18:46	Nathan Downs	50	<2		12/18/24 18:46	7	95.2	12/18/24 21:46	50	
L2474329-01 SAMP	12/18/24 18:46	Nathan Downs	50	<2		12/18/24 18:46	7	95.2	12/18/24 21:46	50	

Reported: 23-DEC-24 04:06 PM

METALS ELN REPORT

Workgroup: WG2010915

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
L2474329-02 SAMP	12/18/24 18:46	Nathan Downs	50	<2		12/18/24 18:46	7	95.2	12/18/24 21:46	50	
L2474329-03 SAMP	12/18/24 18:46	Nathan Downs	50	<2		12/18/24 18:46	7	95.2	12/18/24 21:46	50	
L2474329-04 SAMP	12/18/24 18:46	Nathan Downs	50	<2		12/18/24 18:46	7	95.2	12/18/24 21:46	50	
L2474329-05 SAMP	12/18/24 18:46	Nathan Downs	50	<2		12/18/24 18:46	7	95.2	12/18/24 21:46	50	
WG2010915-1 BLANK	12/18/24 18:46	Nathan Downs	50	<2		12/18/24 18:46	7	95.2	12/18/24 21:46	50	FM2420141420 EFM
WG2010915-2 LCS	12/18/24 18:46	Nathan Downs	50	<2	0.5	12/18/24 18:46	7	95.2	12/18/24 21:46	50	ELN: CLH
WG2010915-3 MS	12/18/24 18:46	Nathan Downs	50	<2	0.5	12/18/24 18:46	7	95.2	12/18/24 21:46	50	
WG2010915-4 DUP	12/18/24 18:46	Nathan Downs	50	<2		12/18/24 18:46	7	95.2	12/18/24 21:46	50	
WG2010915-5 PS	12/18/24 18:46	Nathan Downs	50	<2		12/18/24 18:46	7	95.2	12/18/24 21:46	50	
WG2010915-6 SERDIL	12/18/24 18:46	Nathan Downs	50	<2		12/18/24 18:46	7	95.2	12/18/24 21:46	50	
WG2010915-7 MS	12/18/24 18:46	Nathan Downs	50	<2	0.5	12/18/24 18:46	7	95.2	12/18/24 21:46	50	
WG2010915-8 DUP	12/18/24 18:46	Nathan Downs	50	<2		12/18/24 18:46	7	95.2	12/18/24 21:46	50	

METALS ELN REPORT

Workgroup: WG2010915

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
WG2010915-9 PS	12/18/24 18:46	Nathan Downs	50	<2		12/18/24 18:46	7	95.2	12/18/24 21:46	50	
WG2010915-10 SERDIL	12/18/24 18:46	Nathan Downs	50	<2		12/18/24 18:46	7	95.2	12/18/24 21:46	50	IPS2448251348CME

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

Reported: 23-DEC-24 04:06 PM

Inorganic Data
(Mercury Analysis)

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-01	**Date Collected**	: 12/13/24 08:20
Client ID	: PZ-5	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 20:48
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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-02	**Date Collected**	: 12/13/24 09:45
Client ID	: MW-5D	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 20:51
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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-03	**Date Collected**	: 12/13/24 11:20
Client ID	: SCDOH-DR	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 21:01
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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-04	**Date Collected**	: 12/13/24 12:43
Client ID	: MW-10S	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 21:04
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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-05	**Date Collected**	: 12/13/24 12:30
Client ID	: MW-10D	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 21:07
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**	: L2473538
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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010404-6	**Date Collected**	: 12/12/24 14:00
Client ID	: WG2010404-6 DUP	**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 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-01	**Date Collected**	: 12/13/24 08:20
Client ID	: PZ-5	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 22:34
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG2011319.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 12/18/24

		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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-02	**Date Collected**	: 12/13/24 09:45
Client ID	: MW-5D	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 22:38
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG2011319.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 12/18/24

		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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-03	**Date Collected**	: 12/13/24 11:20
Client ID	: SCDOH-DR	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 22:41
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG2011319.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 12/18/24

		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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-04	**Date Collected**	: 12/13/24 12:43
Client ID	: MW-10S	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 23:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG2011319.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 12/18/24

		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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-05	**Date Collected**	: 12/13/24 12:30
Client ID	: MW-10D	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 23:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG2011319.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 12/18/24

		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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010924-1	**Date Collected**	: NA
Client ID	: WG2010924-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/19/24 21:40
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG2011319.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 12/18/24

		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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010924-4	**Date Collected**	: 12/16/24 11:00
Client ID	: WG2010924-4 DUP	**Date Received**	: 12/17/24
Sample Location	:	**Date Analyzed**	: 12/19/24 21:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG2011319.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 12/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.0001	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010924-6	**Date Collected**	: 12/16/24 11:50
Client ID	: WG2010924-6 DUP	**Date Received**	: 12/17/24
Sample Location	:	**Date Analyzed**	: 12/19/24 22:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG2011319.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 12/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.0001	U

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
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**	: L2473538
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**	: L2473538
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**	: L2473538
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		R1912805-25	
Date Analyzed :				12/18/24 19:39			12/18/24 20:54		12/18/24 21:48	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00500	100	0.00470	93	0.00480	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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1913359-1			R1913359-3			R1913359-5		R1913359-7	
Date Analyzed :	12/19/24 09:44			12/19/24 10:48			12/19/24 11:28		12/19/24 12:10	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury	0.00300	0.0029	95	0.0050	0.00510	102	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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1913359-9			R1913359-11		R1913359-13	
Date Analyzed :				12/19/24 12:50			12/19/24 13:47		12/19/24 14:36	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00510	102	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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1913359-15			R1913359-17		R1913359-19	
Date Analyzed :				12/19/24 15:27			12/19/24 16:07		12/19/24 16:46	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00480	96	0.00490	98	0.00490	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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1913359-21			R1913359-23		R1913359-25	
Date Analyzed :				12/19/24 18:05			12/19/24 19:17		12/19/24 20:05	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00480	96	0.00500	100	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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1913359-27			R1913359-29		R1913359-31	
Date Analyzed :				12/19/24 21:56			12/19/24 22:45		12/20/24 00:21	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00490	99	0.00490	97	0.00500	100

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
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**	: L2473538
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**	: L2473538
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**	: L2473538
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		R1912805-26			
Date Analyzed :			12/18/24 19:42		12/18/24 20:58		12/18/24 21:51			
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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3		

	Initial Calibration Blank	Continuing Calibration Blank(s)			Preparation Blank
Lab ID :	R1913359-2	R1913359-4	R1913359-6	R1913359-8	WG2010924-1
Date Analyzed :	12/19/24 09:47	12/19/24 10:51	12/19/24 11:31	12/19/24 12:14	12/19/24 21:40
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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1913359-10		R1913359-12		R1913359-14			
Date Analyzed :			12/19/24 12:53		12/19/24 13:50		12/19/24 14:39			
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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1913359-16		R1913359-18		R1913359-20			
Date Analyzed :			12/19/24 15:30		12/19/24 16:10		12/19/24 16:50			
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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1913359-22		R1913359-24		R1913359-26			
Date Analyzed :			12/19/24 18:08		12/19/24 19:20		12/19/24 20:08			
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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1913359-28		R1913359-30		R1913359-32			
Date Analyzed :			12/19/24 22:00		12/19/24 22:48		12/20/24 00:25			
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 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**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 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2474329-01		
Matrix Spike	: WG2010924-3	**MS Analysis Date**	: 12/19/24 21:50
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Total	**ND**	**0.005**	**0.00473**	**95**					**70-130**	**20**

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2474329-02		
Matrix Spike	: WG2010924-5	**MS Analysis Date**	: 12/19/24 22:28
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Total	**ND**	**0.005**	**0.00464**	**93**					**70-130**	**20**

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**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 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 12/19/24 21:46
Dup Sample ID	: WG2010924-4	**DUP Analysis Date**	: 12/19/24 21:53

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Mercury, Total	ND	ND	NC	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 12/19/24 22:24
Dup Sample ID	: WG2010924-6	**DUP Analysis Date**	: 12/19/24 22:31

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Mercury, Total	ND	ND	NC	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
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 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2010924-2	**LCS Analysis Date**	: 12/19/24 21:43
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	0.000940	95.					85-115	20

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 245.1

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2473538-01	12/17/24 21:22	-	25
L2473538-02	12/17/24 21:22	-	25
L2473538-03	12/17/24 21:22	-	25
L2473538-04	12/17/24 21:22	-	25
L2473538-05	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 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 245.1

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2473538-01	12/18/24 19:28	-	25
L2473538-02	12/18/24 19:28	-	25
L2473538-03	12/18/24 19:28	-	25
L2473538-04	12/18/24 19:28	-	25
L2473538-05	12/18/24 19:28	-	25
WG2010924-1	12/18/24 19:28	-	25
WG2010924-2	12/18/24 19:28	-	25
WG2010924-3	12/18/24 19:28	-	25
WG2010924-4	12/18/24 19:28	-	25
WG2010924-5	12/18/24 19:28	-	25
WG2010924-6	12/18/24 19:28	-	25

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
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 21:51

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
WG2010404-3 MS	1	19:23:03	X
WG2010404-4 MSD	1	19:26:22	X
WG2010404-5 MS	1	19:32:59	X
WG2010404-6 DUP	1	19:36:18	X
R1912805-21 CCV	1	19:39:36	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
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 21:51

Sample Number	Dilution Factor	Analysis Time	Mercury, Dissolved
R1912805-22 CCB	1	19:42:54	X
L2473538-01	1	20:48:05	X
L2473538-02	1	20:51:24	X
R1912805-23 CCV	1	20:54:42	X
R1912805-24 CCB	1	20:58:01	X
L2473538-03	1	21:01:19	X
L2473538-04	1	21:04:38	X
L2473538-05	1	21:07:56	X
R1912805-25 CCV	1	21:48:34	X
R1912805-26 CCB	1	21:51:53	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Analysis Method**	: 3,245.1
Start Date	: 12/19/24 09:44	**End Date**	: 12/20/24 00:25

Sample Number	Dilution Factor	Analysis Time	Mercury, Total
R1913359-1 ICV	1	09:44:13	X
R1913359-2 ICB	1	09:47:31	X
R1913359-3 CCV	1	10:48:26	X
R1913359-4 CCB	1	10:51:45	X
R1913359-5 CCV	1	11:28:08	X
R1913359-6 CCB	1	11:31:27	X
R1913359-7 CCV	1	12:10:53	X
R1913359-8 CCB	1	12:14:11	X
R1913359-9 CCV	1	12:50:30	X
R1913359-10 CCB	1	12:53:48	X
R1913359-11 CCV	1	13:47:18	X
R1913359-12 CCB	1	13:50:36	X
R1913359-13 CCV	1	14:36:06	X
R1913359-14 CCB	1	14:39:25	X
R1913359-15 CCV	1	15:27:18	X
R1913359-16 CCB	1	15:30:37	X
R1913359-17 CCV	1	16:07:01	X
R1913359-18 CCB	1	16:10:20	X
R1913359-19 CCV	1	16:46:42	X
R1913359-20 CCB	1	16:50:00	X
R1913359-21 CCV	1	18:05:40	X
R1913359-22 CCB	1	18:08:59	X
R1913359-23 CCV	1	19:17:12	X
R1913359-24 CCB	1	19:20:30	X
R1913359-25 CCV	1	20:05:41	X
R1913359-26 CCB	1	20:08:59	X
WG2010924-1 BLANK	1	21:40:11	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Analysis Method**	: 3,245.1
Start Date	: 12/19/24 09:44	**End Date**	: 12/20/24 00:25

Sample Number	Dilution Factor	Analysis Time	Mercury, Total
WG2010924-2 LCS	1	21:43:30	X
WG2010924-3 MS	1	21:50:06	X
WG2010924-4 DUP	1	21:53:24	X
R1913359-27 CCV	1	21:56:42	X
R1913359-28 CCB	1	22:00:00	X
WG2010924-5 MS	1	22:28:14	X
WG2010924-6 DUP	1	22:31:33	X
L2473538-01	1	22:34:52	X
L2473538-02	1	22:38:11	X
L2473538-03	1	22:41:29	X
R1913359-29 CCV	1	22:45:24	X
R1913359-30 CCB	1	22:48:42	X
L2473538-04	1	23:52:12	X
L2473538-05	1	23:55:31	X
R1913359-31 CCV	1	00:21:58	X
R1913359-32 CCB	1	00:25:17	X

Date Created: 03/19/18
Created By: Jason Hebert
File: PM4631-1
Page: 1

MERCURY by 7470A, 245.1 (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120	20	75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

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

Date Created: 01/22/21
Created By: Jason Hebert
File: PM9836-1
Page: 1

METALS by 7470A (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120		75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

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

Date Created: 01/22/21
Created By: Jason Hebert
File: PM9837-1
Page: 1

METALS by 7471B (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.08	0.05216	mg/kg	72-128		80-120	20	20		28 days	Metals Only-Glass 60mL/2oz unpreserv

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

Title :
Date : 12/18/2024
Name :

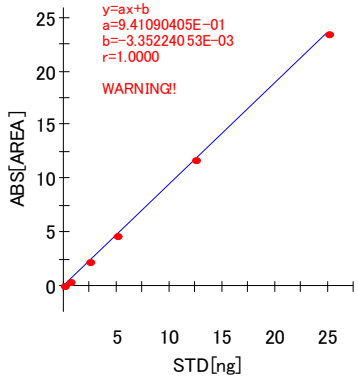
Method

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

NIC NIPPON INSTRUMENTS CORPORATION

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

NIC NIPPON INSTRUMENTS CORPORATION

Title :
Date : 12/19/2024
Name :

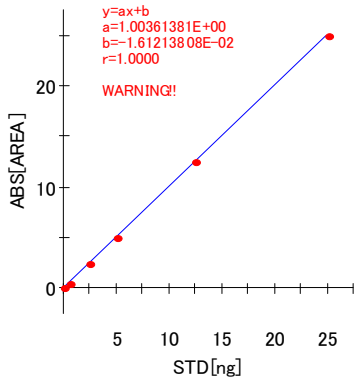
Method

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	0.0156	0.0316	-	12/19/2024 09:09	MJR,NIC3
2	0.200	2.500	2.500	2.500	0.500	0.4917	0.5060	1.2	12/19/2024 09:13	MJR,NIC3
3	1.000	2.500	2.500	2.500	2.500	2.3935	2.4009	4.0	12/19/2024 09:16	MJR,NIC3
4	2.000	2.500	2.500	2.500	5.000	5.0148	5.0128	0.3	12/19/2024 09:19	MJR,NIC3
5	5.000	2.500	2.500	2.500	12.500	12.6122	12.5828	0.7	12/19/2024 09:23	MJR,NIC3
6	10.000	2.500	2.500	2.500	25.000	25.0399	24.9658	0.1	12/19/2024 09:33	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	7.0541	7.0448	2.818	-	12/19/2024 09:37	MJR,NIC3
2	XICB	2.500	2.500	2.500	0.0173	0.0333	0.013	-	12/19/2024 09:40	MJR,NIC3
3	ICV	2.500	2.500	2.500	7.1412	7.1315	2.853	-	12/19/2024 09:44	MJR,NIC3
4	ICB	2.500	2.500	2.500	0.0158	0.0318	0.013	-	12/19/2024 09:47	MJR,NIC3
5	wg2010805-1 wg2010805	2.500	2.500	2.500	0.0097	0.0257	0.010	-	12/19/2024 10:12	MJR,NIC3
6	wg2010805-2 wg2010805	2.500	2.500	2.500	2.1984	2.2065	0.883	-	12/19/2024 10:15	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	I2472865-02 wg2010805	2.500	2.500	2.500	0.0956	0.1113	0.045	-	12/19/2024 10:19	MJR,NIC3
8	wg2010805-3 wg2010805	2.500	2.500	2.500	11.3874	11.3625	4.545	-	12/19/2024 10:22	MJR,NIC3
9	wg2010805-4 wg2010805	2.500	2.500	2.500	0.0983	0.1140	0.046	-	12/19/2024 10:25	MJR,NIC3
10	L2472865-01 WG2010805	2.500	2.500	2.500	0.0177	0.0337	0.013	-	12/19/2024 10:38	MJR,NIC3
11	L2472865-03 WG2010805	2.500	2.500	2.500	0.0350	0.0509	0.020	-	12/19/2024 10:41	MJR,NIC3
12	L2472865-04 WG2010805	2.500	2.500	2.500	0.0505	0.0664	0.027	-	12/19/2024 10:45	MJR,NIC3
13	Check STD(5ug/L)	2.500	2.500	2.500	12.7208	12.6911	5.076	101.5	12/19/2024 10:48	MJR,NIC3
14	Check Blank	2.500	2.500	2.500	0.0143	0.0303	0.012	-	12/19/2024 10:51	MJR,NIC3
15	L2472865-05 WG2010805	2.500	2.500	2.500	0.0441	0.0600	0.024	-	12/19/2024 10:55	MJR,NIC3
16	L2472865-06 WG2010805	2.500	2.500	2.500	1.5816	1.5920	0.637	-	12/19/2024 10:58	MJR,NIC3
17	L2472865-07 WG2010805	2.500	2.500	2.500	0.0751	0.0909	0.036	-	12/19/2024 11:01	MJR,NIC3
18	L2472865-08 WG2010805	2.500	2.500	2.500	0.0272	0.0432	0.017	-	12/19/2024 11:04	MJR,NIC3
19	L2472865-09 WG2010805	2.500	2.500	2.500	0.0546	0.0705	0.028	-	12/19/2024 11:08	MJR,NIC3
20	L2472865-10 WG2010805	2.500	2.500	2.500	0.0678	0.0836	0.033	-	12/19/2024 11:11	MJR,NIC3
21	L2472865-11 WG2010805	2.500	2.500	2.500	0.0573	0.0732	0.029	-	12/19/2024 11:14	MJR,NIC3
22	L2472865-12 WG2010805	2.500	2.500	2.500	0.0670	0.0828	0.033	-	12/19/2024 11:18	MJR,NIC3
23	L2472865-13 WG2010805	2.500	2.500	2.500	0.0309	0.0469	0.019	-	12/19/2024 11:21	MJR,NIC3
24	L2472865-14 WG2010805	2.500	2.500	2.500	0.0306	0.0466	0.019	-	12/19/2024 11:24	MJR,NIC3
25	Check STD(5ug/L)	2.500	2.500	2.500	12.8357	12.8055	5.122	102.4	12/19/2024 11:28	MJR,NIC3
26	Check Blank	2.500	2.500	2.500	0.0152	0.0312	0.012	-	12/19/2024 11:31	MJR,NIC3
27	L2472865-15 WG2010805	2.500	2.500	2.500	0.0861	0.1019	0.041	-	12/19/2024 11:34	MJR,NIC3
28	L2472865-16 WG2010805	2.500	2.500	2.500	0.0608	0.0766	0.031	-	12/19/2024 11:38	MJR,NIC3
29	L2472865-17 WG2010805	2.500	2.500	2.500	0.0847	0.1005	0.040	-	12/19/2024 11:41	MJR,NIC3
30	L2472865-18 WG2010805	2.500	2.500	2.500	0.0361	0.0520	0.021	-	12/19/2024 11:44	MJR,NIC3
31	L2472865-19 WG2010805	2.500	2.500	2.500	0.0264	0.0424	0.017	-	12/19/2024 11:47	MJR,NIC3
32	L2472865-21 WG2010805	2.500	2.500	2.500	0.0549	0.0708	0.028	-	12/19/2024 11:51	MJR,NIC3
33	wg2011117-1 wg2011117	2.500	2.500	2.500	0.0091	0.0251	0.010	-	12/19/2024 11:57	MJR,NIC3
34	wg2011117-2 wg2011117	2.500	2.500	2.500	2.2218	2.2299	0.892	-	12/19/2024 12:00	MJR,NIC3
35	I2472648-02 wg2011117	2.500	2.500	2.500	0.0106	0.0266	0.011	-	12/19/2024 12:04	MJR,NIC3
36	wg2011117-3 wg2011117	2.500	2.500	2.500	11.2811	11.2565	4.503	-	12/19/2024 12:07	MJR,NIC3
37	Check STD(5ug/L)	2.500	2.500	2.500	12.8405	12.8103	5.124	102.5	12/19/2024 12:10	MJR,NIC3
38	Check Blank	2.500	2.500	2.500	0.0130	0.0290	0.012	-	12/19/2024 12:14	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	wg2011117-4 wg2011117	2.500	2.500	2.500	0.0129	0.0289	0.012	-	12/19/2024 12:17	MJR,NIC3
40	I2472648-04 wg2011117	2.500	2.500	2.500	0.0140	0.0300	0.012	-	12/19/2024 12:20	MJR,NIC3
41	I2472648-06 wg2011117	2.500	2.500	2.500	0.0276	0.0436	0.017	-	12/19/2024 12:24	MJR,NIC3
42	I2472649-02 wg2011117	2.500	2.500	2.500	0.0253	0.0413	0.017	-	12/19/2024 12:27	MJR,NIC3
43	I2472649-04 wg2011117	2.500	2.500	2.500	0.0252	0.0412	0.016	-	12/19/2024 12:30	MJR,NIC3
44	I2472649-06 wg2011117	2.500	2.500	2.500	0.0373	0.0532	0.021	-	12/19/2024 12:34	MJR,NIC3
45	I2472649-08 wg2011117	2.500	2.500	2.500	0.0208	0.0368	0.015	-	12/19/2024 12:37	MJR,NIC3
46	I2472649-10 wg2011117	2.500	2.500	2.500	0.0219	0.0379	0.015	-	12/19/2024 12:40	MJR,NIC3
47	I2472649-12 wg2011117	2.500	2.500	2.500	0.0486	0.0645	0.026	-	12/19/2024 12:43	MJR,NIC3
48	wg2010391-1 wg2010391	2.500	2.500	2.500	0.0171	0.0331	0.013	-	12/19/2024 12:47	MJR,NIC3
49	Check STD(5ug/L)	2.500	2.500	2.500	12.8369	12.8067	5.123	102.5	12/19/2024 12:50	MJR,NIC3
50	Check Blank	2.500	2.500	2.500	0.0136	0.0296	0.012	-	12/19/2024 12:53	MJR,NIC3
51	wg2010391-2 wg2010391	2.500	2.500	2.500	2.3364	2.3441	0.938	-	12/19/2024 12:57	MJR,NIC3
52	L2473408-01 wg2010391	2.500	2.500	2.500	0.0154	0.0314	0.013	-	12/19/2024 13:00	MJR,NIC3
53	wg2010391-3 wg2010391	2.500	2.500	2.500	11.2936	11.2690	4.508	-	12/19/2024 13:03	MJR,NIC3
54	wg2010391-4 wg2010391	2.500	2.500	2.500	0.0128	0.0288	0.012	-	12/19/2024 13:07	MJR,NIC3
55	L2473408-02 wg2010391	2.500	2.500	2.500	0.0203	0.0363	0.015	-	12/19/2024 13:10	MJR,NIC3
56	wg2010974-1 wg2010974	2.500	2.500	2.500	0.0688	0.0846	0.034	-	12/19/2024 13:30	MJR,NIC3
57	wg2010974-2 wg2010974	2.500	2.500	2.500	2.6482	2.6547	1.062	-	12/19/2024 13:34	MJR,NIC3
58	I2473051-01 wg2010974	2.500	2.500	2.500	0.0641	0.0799	0.032	-	12/19/2024 13:37	MJR,NIC3
59	wg2010974-3 wg2010974	2.500	2.500	2.500	13.1052	13.0741	5.230	-	12/19/2024 13:40	MJR,NIC3
60	wg2010974-4 wg2010974	2.500	2.500	2.500	0.0469	0.0628	0.025	-	12/19/2024 13:43	MJR,NIC3
61	Check STD(5ug/L)	2.500	2.500	2.500	12.8203	12.7902	5.116	102.3	12/19/2024 13:47	MJR,NIC3
62	Check Blank	2.500	2.500	2.500	0.0139	0.0299	0.012	-	12/19/2024 13:50	MJR,NIC3
63	I2473010-01 wg2010974	2.500	2.500	2.500	0.0504	0.0663	0.027	-	12/19/2024 14:03	MJR,NIC3
64	I2473010-02 wg2010974	2.500	2.500	2.500	0.0405	0.0564	0.023	-	12/19/2024 14:06	MJR,NIC3
65	I2473010-03 wg2010974	2.500	2.500	2.500	0.0351	0.0510	0.020	-	12/19/2024 14:09	MJR,NIC3
66	I2473051-02 wg2010974	2.500	2.500	2.500	0.0795	0.0953	0.038	-	12/19/2024 14:13	MJR,NIC3
67	I2473062-01 wg2010974	2.500	2.500	2.500	0.3154	0.3303	0.132	-	12/19/2024 14:16	MJR,NIC3
68	I2473175-01 wg2010974	2.500	2.500	2.500	0.1497	0.1652	0.066	-	12/19/2024 14:19	MJR,NIC3
69	I2473175-02 wg2010974	2.500	2.500	2.500	0.0868	0.1026	0.041	-	12/19/2024 14:22	MJR,NIC3
70	I2473205-01 wg2010974	2.500	2.500	2.500	0.0341	0.0500	0.020	-	12/19/2024 14:26	MJR,NIC3

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
71	I2473205-02 wg2010974	2.500	2.500	2.500	0.0392	0.0551	0.022	-	12/19/2024 14:29	MJR,NIC3
72	I2473205-03 wg2010974	2.500	2.500	2.500	0.0354	0.0513	0.021	-	12/19/2024 14:32	MJR,NIC3
73	Check STD(5ug/L)	2.500	2.500	2.500	12.8236	12.7935	5.117	102.3	12/19/2024 14:36	MJR,NIC3
74	Check Blank	2.500	2.500	2.500	0.0132	0.0292	0.012	-	12/19/2024 14:39	MJR,NIC3
75	I2473205-04 wg2010974	2.500	2.500	2.500	0.0398	0.0557	0.022	-	12/19/2024 14:42	MJR,NIC3
76	I2473251-01 wg2010974	2.500	2.500	2.500	0.0620	0.0778	0.031	-	12/19/2024 14:46	MJR,NIC3
77	I2473251-02 wg2010974	2.500	2.500	2.500	0.0999	0.1156	0.046	-	12/19/2024 14:49	MJR,NIC3
78	I2473251-03 wg2010974	2.500	2.500	2.500	0.0433	0.0592	0.024	-	12/19/2024 14:52	MJR,NIC3
79	I2473561-03 wg2010974	2.500	2.500	2.500	0.1900	0.2054	0.082	-	12/19/2024 14:56	MJR,NIC3
80	I2473561-06 wg2010974	2.500	2.500	2.500	1.2394	1.2510	0.500	-	12/19/2024 14:59	MJR,NIC3
81	I2473616-01 wg2010974	2.500	2.500	2.500	0.2252	0.2405	0.096	-	12/19/2024 15:02	MJR,NIC3
82	I2473668-17 wg2010974	2.500	2.500	2.500	0.0377	0.0536	0.021	-	12/19/2024 15:05	MJR,NIC3
83	XXX10 PPB TEST	2.500	2.500	2.500	17.6345	17.5871	7.035	-	12/19/2024 15:14	MJR,NIC3
84	wg2010983-1 wg2010983	2.500	2.500	2.500	0.0194	0.0354	0.014	-	12/19/2024 15:23	MJR,NIC3
85	Check STD(5ug/L)	2.500	2.500	2.500	12.0592	12.0318	4.813	96.3	12/19/2024 15:27	MJR,NIC3
86	Check Blank	2.500	2.500	2.500	0.0114	0.0274	0.011	-	12/19/2024 15:30	MJR,NIC3
87	wg2010983-2 wg2010983	2.500	2.500	2.500	3.6449	3.6478	1.459	-	12/19/2024 15:33	MJR,NIC3
88	wg2010983-3 wg2010983	2.500	2.500	2.500	2.6454	2.6519	1.061	-	12/19/2024 15:37	MJR,NIC3
89	I2473048-01 wg2010983	2.500	2.500	2.500	0.0196	0.0356	0.014	-	12/19/2024 15:40	MJR,NIC3
90	I2473048-02 wg2010983	2.500	2.500	2.500	0.0222	0.0382	0.015	-	12/19/2024 15:43	MJR,NIC3
91	I2473048-03 wg2010983	2.500	2.500	2.500	0.0528	0.0687	0.027	-	12/19/2024 15:47	MJR,NIC3
92	I2473048-04 wg2010983	2.500	2.500	2.500	0.0288	0.0448	0.018	-	12/19/2024 15:50	MJR,NIC3
93	I2473048-05 wg2010983	2.500	2.500	2.500	0.0294	0.0454	0.018	-	12/19/2024 15:53	MJR,NIC3
94	I2473048-06 wg2010983	2.500	2.500	2.500	0.0369	0.0528	0.021	-	12/19/2024 15:57	MJR,NIC3
95	I2473048-07 wg2010983	2.500	2.500	2.500	0.0292	0.0452	0.018	-	12/19/2024 16:00	MJR,NIC3
96	I2473048-08 wg2010983	2.500	2.500	2.500	0.0848	0.1006	0.040	-	12/19/2024 16:03	MJR,NIC3
97	Check STD(5ug/L)	2.500	2.500	2.500	12.2227	12.1948	4.878	97.6	12/19/2024 16:07	MJR,NIC3
98	Check Blank	2.500	2.500	2.500	0.0149	0.0309	0.012	-	12/19/2024 16:10	MJR,NIC3
99	I2473048-09 wg2010983	2.500	2.500	2.500	0.0600	0.0758	0.030	-	12/19/2024 16:13	MJR,NIC3
100	I2473048-10 wg2010983	2.500	2.500	2.500	0.0248	0.0408	0.016	-	12/19/2024 16:16	MJR,NIC3
101	wg2010983-2 wg2010983	2.500	2.500	2.500	3.6141	3.6171	1.447	-	12/19/2024 16:20	DJR,NIC3
102	wg2011000-1 wg2011000	2.500	2.500	2.500	0.0241	0.0401	0.016	-	12/19/2024 16:23	DJR,NIC3

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
103	wg2011000-2 wg2011000	2.500	2.500	2.500	2.3842	2.3917	0.957	-	12/19/2024 16:26	DJR,NIC3
104	I2473137-01 wg2011000	2.500	2.500	2.500	0.0191	0.0351	0.014	-	12/19/2024 16:30	DJR,NIC3
105	wg2011000-3 wg2011000	2.500	2.500	2.500	11.6999	11.6738	4.670	-	12/19/2024 16:33	DJR,NIC3
106	wg2011000-4 wg2011000	2.500	2.500	2.500	0.0208	0.0368	0.015	-	12/19/2024 16:36	DJR,NIC3
107	I2473137-02 wg2011000	2.500	2.500	2.500	0.0367	0.0526	0.021	-	12/19/2024 16:40	DJR,NIC3
108	I2473137-03 wg2011000	2.500	2.500	2.500	0.0294	0.0454	0.018	-	12/19/2024 16:43	DJR,NIC3
109	Check STD(5ug/L)	2.500	2.500	2.500	12.1962	12.1683	4.867	97.3	12/19/2024 16:46	DJR,NIC3
110	Check Blank	2.500	2.500	2.500	0.0125	0.0285	0.011	-	12/19/2024 16:50	DJR,NIC3
111	I2473137-04 wg2011000	2.500	2.500	2.500	0.0285	0.0445	0.018	-	12/19/2024 16:53	DJR,NIC3
112	I2473137-05 wg2011000	2.500	2.500	2.500	0.0194	0.0354	0.014	-	12/19/2024 16:56	DJR,NIC3
113	wg2011351-1 wg2011351	2.500	2.500	2.500	0.0222	0.0382	0.015	-	12/19/2024 17:04	DJR,NIC3
114	wg2011351-2 wg2011351	2.500	2.500	2.500	2.3595	2.3671	0.947	-	12/19/2024 17:07	DJR,NIC3
115	wg2011351-3 wg2011351	2.500	2.500	2.500	2.2719	2.2798	0.912	-	12/19/2024 17:11	DJR,NIC3
116	I2474093-01 wg2011351	2.500	2.500	2.500	0.0379	0.0538	0.022	-	12/19/2024 17:14	DJR,NIC3
117	I2474093-02 wg2011351	2.500	2.500	2.500	0.1093	0.1250	0.050	-	12/19/2024 17:17	DJR,NIC3
118	I2474093-03 wg2011351	2.500	2.500	2.500	0.0275	0.0435	0.017	-	12/19/2024 17:20	DJR,NIC3
119	L2474093-04 WG2011351	2.500	2.500	2.500	0.0190	0.0350	0.014	-	12/19/2024 17:59	DJR,NIC3
120	L2474093-05 WG2011351	2.500	2.500	2.500	0.0181	0.0341	0.014	-	12/19/2024 18:02	DJR,NIC3
121	Check STD(5ug/L)	2.500	2.500	2.500	12.0272	12.0000	4.800	96.0	12/19/2024 18:05	DJR,NIC3
122	Check Blank	2.500	2.500	2.500	0.0126	0.0286	0.011	-	12/19/2024 18:08	DJR,NIC3
123	L2474093-06 WG2011351	2.500	2.500	2.500	0.0164	0.0324	0.013	-	12/19/2024 18:12	DJR,NIC3
124	L2474093-07 WG2011351	2.500	2.500	2.500	0.0201	0.0361	0.014	-	12/19/2024 18:15	DJR,NIC3
125	L2474093-08 WG2011351	2.500	2.500	2.500	0.0207	0.0367	0.015	-	12/19/2024 18:18	DJR,NIC3
126	L2474093-09 WG2011351	2.500	2.500	2.500	0.0233	0.0393	0.016	-	12/19/2024 18:22	DJR,NIC3
127	I2474093-10 wg2011351	2.500	2.500	2.500	0.0297	0.0457	0.018	-	12/19/2024 18:57	DJR,NIC3
128	I2474093-11 wg2011351	2.500	2.500	2.500	0.0253	0.0413	0.017	-	12/19/2024 19:00	DJR,NIC3
129	I2474093-12 wg2011351	2.500	2.500	2.500	0.0536	0.0695	0.028	-	12/19/2024 19:04	DJR,NIC3
130	I2474093-13 wg2011351	2.500	2.500	2.500	0.0257	0.0417	0.017	-	12/19/2024 19:07	DJR,NIC3
131	I2474093-14 wg2011351	2.500	2.500	2.500	0.0396	0.0555	0.022	-	12/19/2024 19:10	DJR,NIC3
132	I2474093-15 wg2011351	2.500	2.500	2.500	0.0242	0.0402	0.016	-	12/19/2024 19:13	DJR,NIC3
133	Check STD(5ug/L)	2.500	2.500	2.500	12.5595	12.5303	5.012	100.2	12/19/2024 19:17	DJR,NIC3
134	Check Blank	2.500	2.500	2.500	0.0203	0.0363	0.015	-	12/19/2024 19:20	DJR,NIC3

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
135	I2474093-16 wg2011351	2.500	2.500	2.500	0.0244	0.0404	0.016	-	12/19/2024 19:23	DJR,NIC3
136	I2474093-17 wg2011351	2.500	2.500	2.500	0.0257	0.0417	0.017	-	12/19/2024 19:27	DJR,NIC3
137	I2474093-18 wg2011351	2.500	2.500	2.500	0.0255	0.0415	0.017	-	12/19/2024 19:30	DJR,NIC3
138	Check STD(5ug/L)	2.500	2.500	2.500	12.3287	12.3004	4.920	98.4	12/19/2024 20:05	DJR,NIC3
139	Check Blank	2.500	2.500	2.500	0.0216	0.0376	0.015	-	12/19/2024 20:08	DJR,NIC3
140	wg2010924-1 wg2010924	2.500	2.500	2.500	0.0168	0.0328	0.013	-	12/19/2024 21:40	DJR,NIC3
141	wg2010924-2 wg2010924	2.500	2.500	2.500	2.3608	2.3684	0.947	-	12/19/2024 21:43	DJR,NIC3
142	L2474329-01 wg2010924	2.500	2.500	2.500	0.0120	0.0280	0.011	-	12/19/2024 21:46	DJR,NIC3
143	wg2010924-3 wg2010924	2.500	2.500	2.500	11.8602	11.8336	4.733	-	12/19/2024 21:50	DJR,NIC3
144	wg2010924-4 wg2010924	2.500	2.500	2.500	0.0130	0.0290	0.012	-	12/19/2024 21:53	DJR,NIC3
145	Check STD(5ug/L)	2.500	2.500	2.500	12.3956	12.3670	4.947	98.9	12/19/2024 21:56	DJR,NIC3
146	Check Blank	2.500	2.500	2.500	0.0175	0.0335	0.013	-	12/19/2024 22:00	DJR,NIC3

Title :
Date : 12/19/2024
Name :

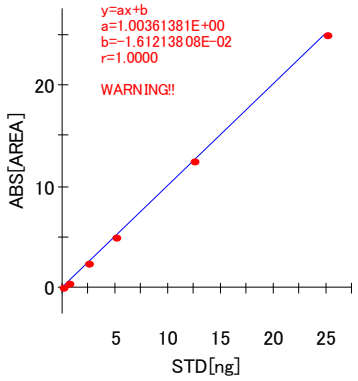
Method

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	0.0156	0.0316	-	12/19/2024 09:09	MJR,NIC3
2	0.200	2.500	2.500	2.500	0.500	0.4917	0.5060	1.2	12/19/2024 09:13	MJR,NIC3
3	1.000	2.500	2.500	2.500	2.500	2.3935	2.4009	4.0	12/19/2024 09:16	MJR,NIC3
4	2.000	2.500	2.500	2.500	5.000	5.0148	5.0128	0.3	12/19/2024 09:19	MJR,NIC3
5	5.000	2.500	2.500	2.500	12.500	12.6122	12.5828	0.7	12/19/2024 09:23	MJR,NIC3
6	10.000	2.500	2.500	2.500	25.000	25.0399	24.9658	0.1	12/19/2024 09:33	MJR,NIC3

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	L2474329-02 wg2010924	2.500	2.500	2.500	0.0157	0.0317	0.013	-	12/19/2024 22:24	DJR,NIC3
2	wg2010924-5 wg2010924	2.500	2.500	2.500	11.6479	11.6220	4.649	-	12/19/2024 22:28	DJR,NIC3
3	wg2010924-6 wg2010924	2.500	2.500	2.500	0.0173	0.0333	0.013	-	12/19/2024 22:31	DJR,NIC3
4	L2473538-01 wg2010924	2.500	2.500	2.500	0.0182	0.0342	0.014	-	12/19/2024 22:34	DJR,NIC3
5	L2473538-02 wg2010924	2.500	2.500	2.500	0.0189	0.0349	0.014	-	12/19/2024 22:38	DJR,NIC3
6	L2473538-03 wg2010924	2.500	2.500	2.500	0.0166	0.0326	0.013	-	12/19/2024 22:41	DJR,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	Check STD(5ug/L)	2.500	2.500	2.500	12.2021	12.1742	4.870	97.4	12/19/2024 22:45	DJR,NIC3
8	Check Blank	2.500	2.500	2.500	0.0238	0.0398	0.016	-	12/19/2024 22:48	DJR,NIC3
9	I2473538-04 WG2010924	2.500	2.500	2.500	0.0184	0.0344	0.014	-	12/19/2024 23:52	DJR,NIC3
10	I2473538-05 WG2010924	2.500	2.500	2.500	0.0177	0.0337	0.013	-	12/19/2024 23:55	DJR,NIC3
11	I2473756-01 WG2010924	2.500	2.500	2.500	0.0173	0.0333	0.013	-	12/19/2024 23:58	DJR,NIC3
12	I2474304-01 WG2010924	2.500	2.500	2.500	0.1660	0.1815	0.073	-	12/20/2024 00:02	DJR,NIC3
13	I2474304-02 WG2010924	2.500	2.500	2.500	0.0173	0.0333	0.013	-	12/20/2024 00:05	DJR,NIC3
14	I2474329-03 WG2010924	2.500	2.500	2.500	0.0166	0.0326	0.013	-	12/20/2024 00:08	DJR,NIC3
15	I2474329-04 WG2010924	2.500	2.500	2.500	0.0187	0.0347	0.014	-	12/20/2024 00:12	DJR,NIC3
16	I2474329-05 WG2010924	2.500	2.500	2.500	0.0174	0.0334	0.013	-	12/20/2024 00:15	DJR,NIC3
17	XCLR SOL	2.500	2.500	2.500	0.0229	0.0389	0.016	-	12/20/2024 00:18	DJR,NIC3
18	Check STD(5ug/L)	2.500	2.500	2.500	12.5654	12.5362	5.014	100.3	12/20/2024 00:21	DJR,NIC3
19	Check Blank	2.500	2.500	2.500	0.0207	0.0367	0.015	-	12/20/2024 00:25	DJR,NIC3
20	Check STD(5ug/L)	2.500	2.500	2.500	12.5844	12.5551	5.022	100.4	12/20/2024 00:28	DJR,NIC3
21	Check Blank	2.500	2.500	2.500	0.0179	0.0339	0.014	-	12/20/2024 00:31	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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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

▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Quality Officer

Matthew Seebeck

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ERA
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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

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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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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.

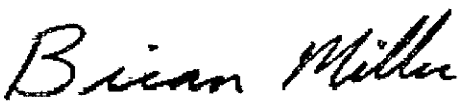
8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

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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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: 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

No.	Sample No.	NAME	CURVE: WG2010808
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	wg2010805-1 wg2010805	
6	12	wg2010805-2 wg2010805	
7	13	l2472865-02 wg2010805	
8	14	wg2010805-3 wg2010805	
9	15	wg2010805-4 wg2010805	
10	16	L2472865-01 WG2010805	
11	17	L2472865-03 WG2010805	
12	18	L2472865-04 WG2010805	
13	19	Check STD(5ug/L)	
14	20	Check Blank	
15	21	L2472865-05 WG2010805	
16	22	L2472865-06 WG2010805	
17	23	L2472865-07 WG2010805	
18	24	L2472865-08 WG2010805	
19	25	L2472865-09 WG2010805	
20	26	L2472865-10 WG2010805	
21	27	L2472865-11 WG2010805	
22	28	L2472865-12 WG2010805	
23	29	L2472865-13 WG2010805	
24	30	L2472865-14 WG2010805	
25	31	Check STD(5ug/L)	
26	32	Check Blank	
27	33	L2472865-15 WG2010805	
28	34	L2472865-16 WG2010805	
29	35	L2472865-17 WG2010805	
30	36	L2472865-18 WG2010805	
31	37	L2472865-19 WG2010805	
32	38	L2472865-21 WG2010805	
33	39	wg2011117-1 wg2011117	
34	40	wg2011117-2 wg2011117	
35	41	l2472648-02 wg2011117	
36	42	wg2011117-3 wg2011117	
37	43	Check STD(5ug/L)	

38	44	Check Blank
39	45	wg2011117-4 wg2011117
40	46	l2472648-04 wg2011117
41	47	l2472648-06 wg2011117
42	48	l2472649-02 wg2011117
43	49	l2472649-04 wg2011117
44	50	l2472649-06 wg2011117
45	51	l2472649-08 wg2011117
46	52	l2472649-10 wg2011117
47	53	l2472649-12 wg2011117
48	54	wg2010391-1 wg2010391
49	55	Check STD(5ug/L)
50	56	Check Blank
51	57	wg2010391-2 wg2010391
52	58	L2473408-01 wg2010391
53	59	wg2010391-3 wg2010391
54	60	wg2010391-4 wg2010391
55	61	L2473408-02 wg2010391
56	62	wg2010974-1 wg2010974
57	63	wg2010974-2 wg2010974
58	64	l2473051-01 wg2010974
59	65	wg2010974-3 wg2010974
60	66	wg2010974-4 wg2010974
61	67	Check STD(5ug/L)
62	68	Check Blank
63	69	l2473010-01 wg2010974
64	70	l2473010-02 wg2010974
65	71	l2473010-03 wg2010974
66	72	l2473051-02 wg2010974
67	73	l2473062-01 wg2010974
68	74	l2473175-01 wg2010974
69	75	l2473175-02 wg2010974
70	76	l2473205-01 wg2010974
71	77	l2473205-02 wg2010974
72	78	l2473205-03 wg2010974
73	79	Check STD(5ug/L)
74	80	Check Blank
75	1	l2473205-04 wg2010974
76	2	l2473251-01 wg2010974
77	3	l2473251-02 wg2010974
78	4	l2473251-03 wg2010974
79	5	l2473561-03 wg2010974
80	6	l2473561-06 wg2010974
81	7	l2473616-01 wg2010974

82	8	l2473668-17 wg2010974
83	9	XXX10 PPB TEST
84	10	wg2010983-1 wg2010983
85	11	Check STD(5ug/L)
86	12	Check Blank
87	13	wg2010983-2 wg2010983
88	14	wg2010983-3 wg2010983
89	15	l2473048-01 wg2010983
90	16	l2473048-02 wg2010983
91	17	l2473048-03 wg2010983
92	18	l2473048-04 wg2010983
93	19	l2473048-05 wg2010983
94	20	l2473048-06 wg2010983
95	21	l2473048-07 wg2010983
96	22	l2473048-08 wg2010983
97	23	Check STD(5ug/L)
98	24	Check Blank
99	25	l2473048-09 wg2010983
100	26	l2473048-10 wg2010983
101	27	wg2010983-2 wg2010983
102	28	wg2011000-1 wg2011000
103	29	wg2011000-2 wg2011000
104	30	l2473137-01 wg2011000
105	31	wg2011000-3 wg2011000
106	32	wg2011000-4 wg2011000
107	33	l2473137-02 wg2011000
108	34	l2473137-03 wg2011000
109	35	Check STD(5ug/L)
110	36	Check Blank
111	37	l2473137-04 wg2011000
112	38	l2473137-05 wg2011000
113	39	wg2011351-1 wg2011351
114	40	wg2011351-2 wg2011351
115	41	wg2011351-3 wg2011351
116	42	l2474093-01 wg2011351
117	43	l2474093-02 wg2011351
118	44	l2474093-03 wg2011351
119	45	L2474093-04 WG2011351
120	46	L2474093-05 WG2011351
121	47	Check STD(5ug/L)
122	48	Check Blank
123	49	L2474093-06 WG2011351
124	50	L2474093-07 WG2011351
125	51	L2474093-08 WG2011351

126	52	L2474093-09 WG2011351
127	53	l2474093-10 wg2011351
128	54	l2474093-11 wg2011351
129	55	l2474093-12 wg2011351
130	56	l2474093-13 wg2011351
131	57	l2474093-14 wg2011351
132	58	l2474093-15 wg2011351
133	59	Check STD(5ug/L)
134	60	Check Blank
135	61	l2474093-16 wg2011351
136	62	l2474093-17 wg2011351
137	63	l2474093-18 wg2011351
138	64	Check STD(5ug/L)
139	65	Check Blank
140	66	wg2010924-1 wg2010924
141	67	wg2010924-2 wg2010924
142	68	L2474329-01 wg2010924
143	69	wg2010924-3 wg2010924
144	70	wg2010924-4 wg2010924
145	71	Check STD(5ug/L)
146	72	Check Blank
1	11	L2474329-02 wg2010924
2	12	wg2010924-5 wg2010924
3	13	wg2010924-6 wg2010924
4	14	L2473538-01 wg2010924
5	15	L2473538-02 wg2010924
6	16	L2473538-03 wg2010924
7	21	Check STD(5ug/L)
8	22	Check Blank
9	23	l2473538-04 WG2010924
10	24	l2473538-05 WG2010924
11	25	l2473756-01 WG2010924
12	26	l2474304-01 WG2010924
13	27	l2474304-02 WG2010924
14	28	l2474329-03 WG2010924
15	29	l2474329-04 WG2010924
16	30	l2474329-05 WG2010924
17	31	XCLR SOL
18	33	Check STD(5ug/L)
19	34	Check Blank
20	35	Check STD(5ug/L)
21	36	Check Blank

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: 20-DEC-24 11:21 AM

METALS ELN REPORT

Workgroup: WG2010924

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
L2473538-01 SAMP	12/18/24 19:28	Nathan Downs	25		12/18/24 19:28	5	94.5	12/18/24 21:28	25	
L2473538-02 SAMP	12/18/24 19:28	Nathan Downs	25		12/18/24 19:28	5	94.5	12/18/24 21:28	25	
L2473538-03 SAMP	12/18/24 19:28	Nathan Downs	25		12/18/24 19:28	5	94.5	12/18/24 21:28	25	
L2473538-04 SAMP	12/18/24 19:28	Nathan Downs	25		12/18/24 19:28	5	94.5	12/18/24 21:28	25	
L2473538-05 SAMP	12/18/24 19:28	Nathan Downs	25		12/18/24 19:28	5	94.5	12/18/24 21:28	25	
L2473756-01 WATER	12/18/24 19:28	Nathan Downs	25		12/18/24 19:28	5	94.5	12/18/24 21:28	25	
L2474304-01 SAMP	12/18/24 19:28	Nathan Downs	25		12/18/24 19:28	5	94.5	12/18/24 21:28	25	
L2474304-02 SAMP	12/18/24 19:28	Nathan Downs	25		12/18/24 19:28	5	94.5	12/18/24 21:28	25	

Reported: 23-DEC-24 01:01 PM

METALS ELN REPORT

Workgroup: WG2010924

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
L2474329-01 SAMP	12/18/24 19:28	Nathan Downs	25		12/18/24 19:28	5	94.5	12/18/24 21:28	25	
L2474329-02 SAMP	12/18/24 19:28	Nathan Downs	25		12/18/24 19:28	5	94.5	12/18/24 21:28	25	
L2474329-03 SAMP	12/18/24 19:28	Nathan Downs	25		12/18/24 19:28	5	94.5	12/18/24 21:28	25	
L2474329-04 SAMP	12/18/24 19:28	Nathan Downs	25		12/18/24 19:28	5	94.5	12/18/24 21:28	25	
L2474329-05 SAMP	12/18/24 19:28	Nathan Downs	25		12/18/24 19:28	5	94.5	12/18/24 21:28	25	
WG2010924-1 BLANK	12/18/24 19:28	Nathan Downs	25		12/18/24 19:28	5	94.5	12/18/24 21:28	25	ELN: CLH
WG2010924-2 LCS	12/18/24 19:28	Nathan Downs	25	0.25	12/18/24 19:28	5	94.5	12/18/24 21:28	25	
WG2010924-3 MS	12/18/24 19:28	Nathan Downs	25	1.25	12/18/24 19:28	5	94.5	12/18/24 21:28	25	
WG2010924-4 DUP	12/18/24 19:28	Nathan Downs	25		12/18/24 19:28	5	94.5	12/18/24 21:28	25	
WG2010924-5 MS	12/18/24 19:28	Nathan Downs	25	1.25	12/18/24 19:28	5	94.5	12/18/24 21:28	25	
WG2010924-6 DUP	12/18/24 19:28	Nathan Downs	25		12/18/24 19:28	5	94.5	12/18/24 21:28	25	

METALS ELN REPORT

Workgroup: WG2010924

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

Wet Chemistry

Total Nitrogen Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-01	**Date Collected**	:	12/13/24 08:20
Client ID	:	PZ-5	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/20/24 10:15
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	107,-	**Analyst**	:	MRM
Lab File ID	:	WG2011807.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	1.1	0.30	0.30	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-02	**Date Collected**	:	12/13/24 09:45
Client ID	:	MW-5D	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/20/24 10:15
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	107,-	**Analyst**	:	MRM
Lab File ID	:	WG2011807.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	6.7	0.30	0.30	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-03	**Date Collected**	:	12/13/24 11:20
Client ID	:	SCDOH-DR	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/20/24 10:15
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	107,-	**Analyst**	:	MRM
Lab File ID	:	WG2011807.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	3.5	0.30	0.30	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-04	**Date Collected**	:	12/13/24 12:43
Client ID	:	MW-10S	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/20/24 10:15
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	107,-	**Analyst**	:	MRM
Lab File ID	:	WG2011807.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	0.82	0.30	0.30	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-05	**Date Collected**	:	12/13/24 12:30
Client ID	:	MW-10D	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/20/24 10:15
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	107,-	**Analyst**	:	MRM
Lab File ID	:	WG2011807.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: WG2011807
RL: **0.3 mg/L**

	Sample Number	TKN (mg/L)	NO3/NO2 (mg/L)	RL Multiplier	Result (mg/L)
SAMP	L2473538-01	0.201	1.1	1.0	1.1
SAMP	L2473538-02	0.0892	6.7	1.0	6.7
SAMP	L2473538-03	0	3.5	1.0	3.5
SAMP	L2473538-04	0.125	0.82	1.0	0.82
SAMP	L2473538-05	0.153	0	1.0	0.153

Calculations of Total Nitrogen

Calculate the concentration value based on results for TKN-N and N03/NO2-N.

Aqueous samples:

mgTN-N/L = TKN-N(mg/l) + NO3/NO2-N (mg/l)

Soil samples:

mgTN-N/Kg = TKN-N(mg/Kg) + NO3/NO2-N(mg/Kg)

Total Kjeldahl Nitrogen Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-01	**Date Collected**	:	12/13/24 08:20
Client ID	:	PZ-5	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 20:36
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	4,351.1	**Analyst**	:	AT
Lab File ID	:	NH320241219-E	**Instrument ID**	:	LACHAT
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.201	0.300	0.066	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-02	**Date Collected**	: 12/13/24 09:45
Client ID	: MW-5D	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 20:37
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: AT
Lab File ID	: NH320241219-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.089	0.300	0.066	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-03	**Date Collected**	:	12/13/24 11:20
Client ID	:	SCDOH-DR	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 20:38
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	4,351.1	**Analyst**	:	AT
Lab File ID	:	NH320241219-E	**Instrument ID**	:	LACHAT
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/18/24

		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**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-04	**Date Collected**	:	12/13/24 12:43
Client ID	:	MW-10S	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 20:39
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	4,351.1	**Analyst**	:	AT
Lab File ID	:	NH320241219-E	**Instrument ID**	:	LACHAT
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.125	0.300	0.066	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-05	**Date Collected**	:	12/13/24 12:30
Client ID	:	MW-10D	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 20:39
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	4,351.1	**Analyst**	:	AT
Lab File ID	:	NH320241219-E	**Instrument ID**	:	LACHAT
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.153	0.300	0.066	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010837-1	**Date Collected**	: NA
Client ID	: WG2010837-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/19/24 20:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: AT
Lab File ID	: NH320241219-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.022	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010837-3	**Date Collected**	: 12/17/24 08:25
Client ID	: WG2010837-3 DUP	**Date Received**	: 12/17/24
Sample Location	:	**Date Analyzed**	: 12/19/24 20:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: AT
Lab File ID	: NH320241219-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	3.42	0.300	0.066	

Sample Raw Data

Author: A1WETCHEMINSTRUMENT

Date : 12/19/2024

Original Run Filename: OM_12-19-2024_10-18-40AM.OMN Created: 12/19/2024 10:18:40 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-19-2024_10-18-40AM.OMN Last Modified: 12/19/2024 10:58:33 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

TRAY A

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
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	0.38613				97%
	Known Conc:		100.00000				
	Calibration:		Table/Fig. : 1				
CCV 4.0000	1	S3	4.03231				101%
	Known Conc:		100.00000				
CCB	1	S10	0.02068				
	Known Conc:		100.00000				
HI ICV 8.0	1	1	8.05479				101%
LO ICV 1.0	1	2	0.94869				95%
ICB	1	3	0.00447				
WG2010877-1	1	4	0.00766		1.50		
WG2010877-2	1	5	18.54201		7.50		93%
LCS LO	1	6	1.98013		1.50		99%
L2472735-01	1	7	96.66658		30.00		
L2472735-02	1	8	36.24215		30.00		
L2472735-03	1	9	17.00151		30.00		
L2472735-04	1	10	31.97053		30.00		
CCV 0.4000	1	S6	0.42830				107%
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.05715				101%
	Known Conc:		100.00000				
CCB	1	S10	0.02167				
	Known Conc:		100.00000				
L2472759-14	1	11	0.05151		1.50		
L2472759-15	1	12	0.04089		1.50		
L2472759-16	1	13	0.09345		1.50		
L2472759-17	1	14	0.01414		1.50		
WG2010877-4	1	15	4.38203		1.50		110%
WG2010877-3	1	16	0.14118		1.50		RPD=NC
L2473051-01	1	17	0.04153		1.50		
L2473051-02	1	18	0.14732		7.50		
CCV 0.4000	1	S6	0.38988				97%
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.07706				102%
	Known Conc:		100.00000				
CCB	1	S10	0.01609				
	Known Conc:		100.00000				

Author: A1WETCHEMINSTRUMENT

Date : 12/19/2024

Channel 2 (Ammonia High) - Current View

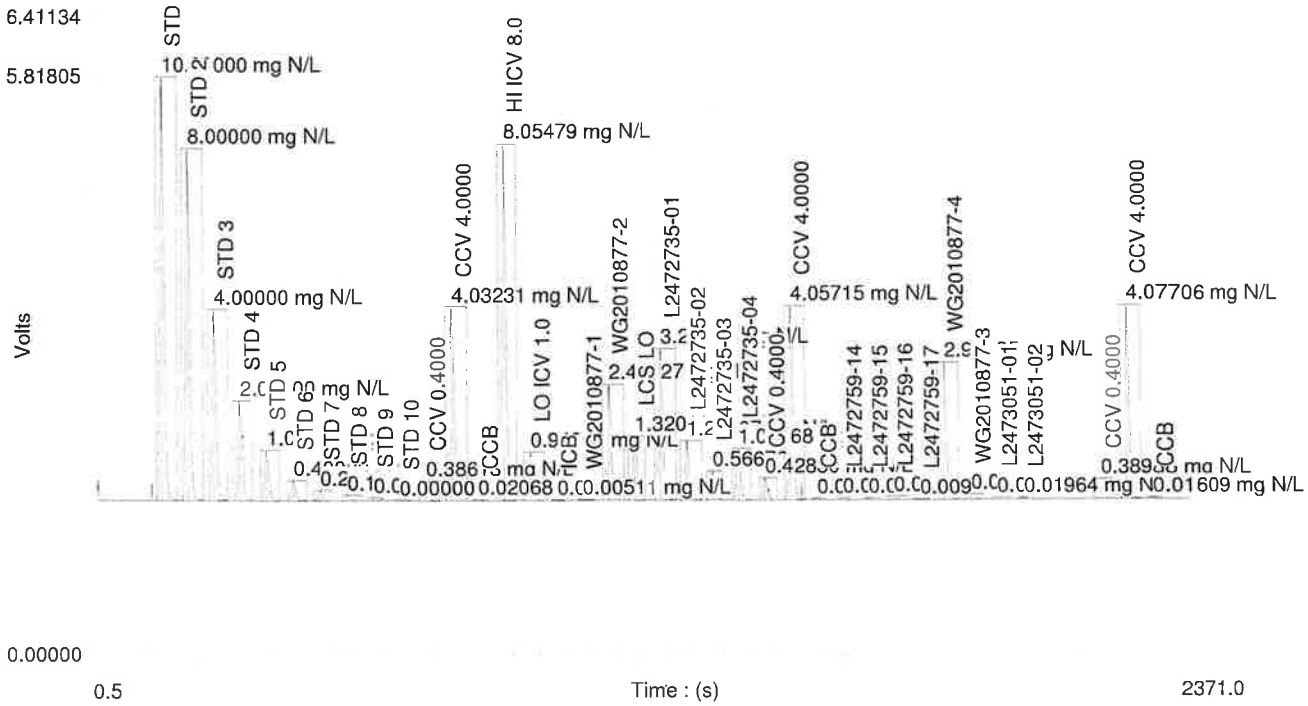
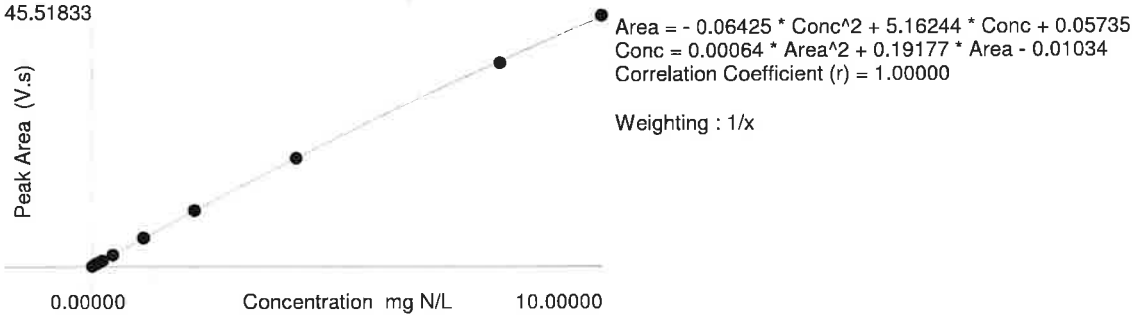


Table : 1 (Ammonia)

	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	45.51833	4.25781	0.0	-0.6	10.04433	12/19/2024	10:20:37 AM
2	8.00000	1	36.90921	3.53728	0.0	0.9	7.93933	12/19/2024	10:21:34 AM
3	4.00000	1	19.64925	1.92181	0.0	0.2	4.00481	12/19/2024	10:22:31 AM
4	2.00000	1	10.19119	1.00733	0.0	-0.7	2.01047	12/19/2024	10:23:28 AM
5	1.00000	1	5.22384	0.51189	0.0	-1.3	1.00889	12/19/2024	10:24:26 AM
6	0.40000	1	2.08298	0.20268	0.0	1.4	0.39189	12/19/2024	10:25:24 AM
7	0.20000	1	1.05646	0.10246	0.0	2.8	0.19297	12/19/2024	10:26:22 AM
8	0.10000	1	0.61104	0.05421	0.0	-6.6	0.10708	12/19/2024	10:27:20 AM
9	0.05000	1	0.30640	0.02924	0.0	2.8	0.04848	12/19/2024	10:28:17 AM
10	0.00000	1	0.05465	0.00362			0.00014	12/19/2024	10:29:14 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

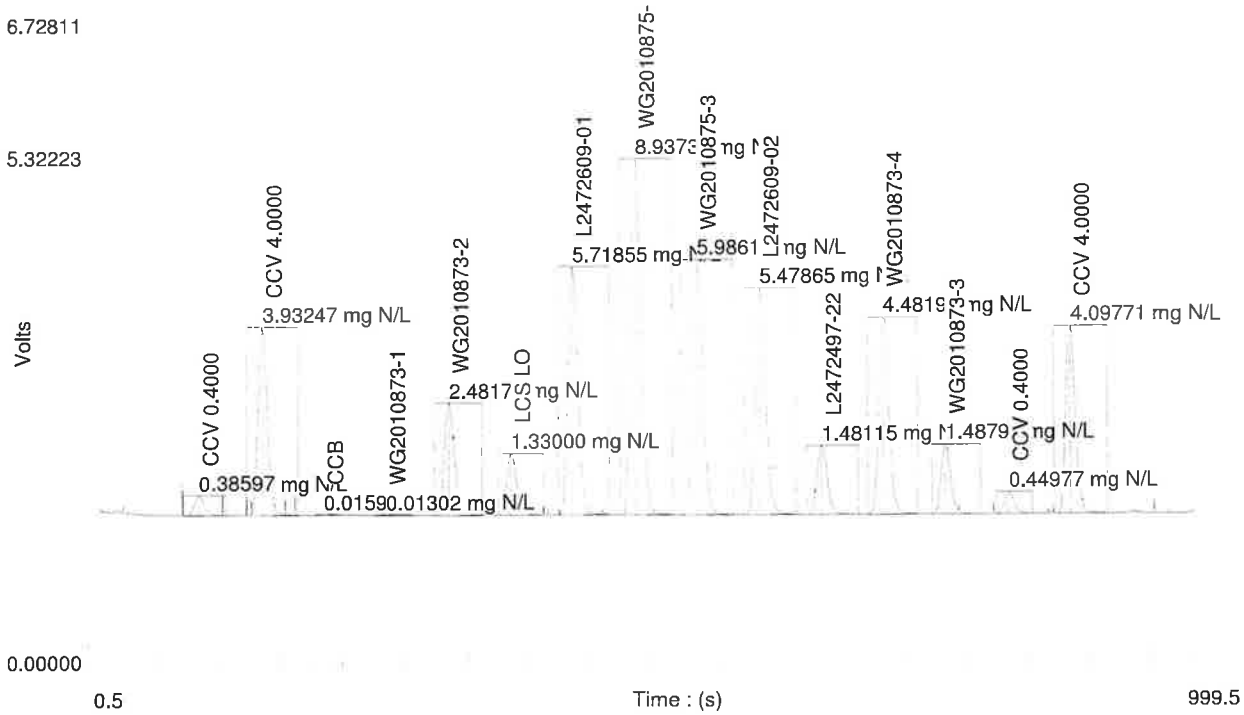
Date : 12/19/2024

Original Run Filename: OM_12-19-2024_11-01-39AM.OMN Created: 12/19/2024 11:01:39 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-19-2024_11-01-39AM.OMN Last Modified: 12/19/2024 11:18:31 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

TRAY B

	Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
	CCV 0.4000	1	S6	0.38597				96%
		Known Conc:		100.00000				
	CCV 4.0000	1	S3	3.93247				98%
		Known Conc:		100.00000				
		Calibration:		Table/Fig. : 1				
	CCB	1	S10	0.01598				
		Known Conc:		100.00000				
WG2010875	WG2010873-1	1	1	0.01953		1.50		
	WG2010873-2	1	2	18.61292		7.50		93%
	LCS LO	1	3	1.99499		1.50		100%
	L2472609-01	1	4	8.57782		1.50		
	WG2010875-4	1	5	13.40594		1.50		121%
	WG2010875-3	1	6	8.97926		1.50		RPD=5%
	L2472609-02	1	7	8.21797		1.50		
	L2472497-22	1	8	2.22172		1.50		
	WG2010873-4	1	9	6.72288		1.50		113%
	WG2010873-3	1	10	2.23190		1.50		RPD=1%
X	CCV 0.4000	1	S6	0.44977				112%, RERUN OK
		Known Conc:		100.00000				
	CCV 4.0000	1	S3	4.09771				
		Known Conc:		100.00000				

Channel 2 (Ammonia High) - Current View



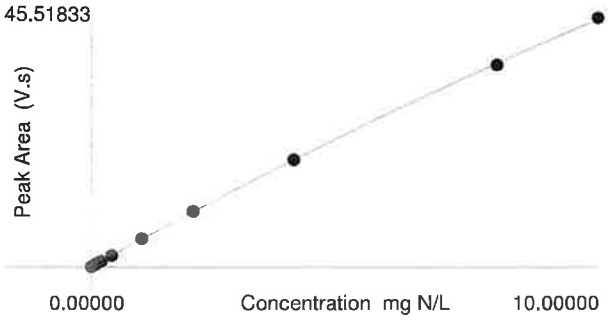
Author: A1WETCHEMINSTRUMENT

Date : 12/19/2024

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	45.51833	4.25781	0.0	-0.6	10.04433	12/19/2024	10:20:37 AM
2	8.00000	1	36.90921	3.53728	0.0	0.9	7.93933	12/19/2024	10:21:34 AM
3	4.00000	1	19.64925	1.92181	0.0	0.2	4.00481	12/19/2024	10:22:31 AM
4	2.00000	1	10.19119	1.00733	0.0	-0.7	2.01047	12/19/2024	10:23:28 AM
5	1.00000	1	5.22384	0.51189	0.0	-1.3	1.00889	12/19/2024	10:24:26 AM
6	0.40000	1	2.08298	0.20268	0.0	1.4	0.39189	12/19/2024	10:25:24 AM
7	0.20000	1	1.05646	0.10246	0.0	2.8	0.19297	12/19/2024	10:26:22 AM
8	0.10000	1	0.61104	0.05421	0.0	-6.6	0.10708	12/19/2024	10:27:20 AM
9	0.05000	1	0.30640	0.02924	0.0	2.8	0.04848	12/19/2024	10:28:17 AM
10	0.00000	1	0.05465	0.00362			0.00014	12/19/2024	10:29:14 AM

Figure : 1 (Ammonia)



Area = - 0.06425 * Conc^2 + 5.16244 * Conc + 0.05735
Conc = 0.00064 * Area^2 + 0.19177 * Area - 0.01034
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

Date : 12/19/2024

Original Run Filename: OM_12-19-2024_11-20-46AM.OMN Created: 12/19/2024 11:20:46 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-19-2024_11-20-46AM.OMN Last Modified: 12/19/2024 11:49:13 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 B
CCV 0.4000	1	S6	0.40525				101%
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.08289				102%
	Known Conc:		100.00000				
	Calibration:		Table/Fig. : 1				
CCB	1	S10	0.02171				
	Known Conc:		100.00000				
L2472497-24	1	11	0.06091		1.50		
L2472865-01	1	12	5.03659		1.50		
L2472865-02	1	13	0.93802		1.50		
L2472865-03	1	14	0.11197		1.50		
L2472865-04	1	15	0.24121		1.50		
L2472865-05	1	16	3.46738		1.50		
L2472865-06	1	17	6.64624		150.00		
L2472865-07	1	18	-0.04118		1.50		
L2472865-08	1	19	0.42435		1.50		
L2472865-09	1	20	0.48039		1.50		
CCV 0.4000	1	S6	0.41173				103%
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.12792				103%
	Known Conc:		100.00000				
CCB	1	S10	0.01929				
	Known Conc:		100.00000				
L2472865-10	1	21	0.95978		7.50		
L2472865-11	1	22	1.96444		3.00		
L2472865-12	1	23	2.77036		1.50		
L2472865-13	1	24	2.85456		1.50		
L2472865-14	1	25	0.85690		1.50		
L2472865-15	1	26	0.31429		1.50		
L2472865-16	1	27	0.75127		1.50		
CCV 0.4000	1	S6	0.40426				101%
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.14399				104%
	Known Conc:		100.00000				
CCB	1	S10	0.02284				
	Known Conc:		100.00000				

Author: A1WETCHEMINSTRUMENT

Date : 12/19/2024

Channel 2 (Ammonia High) - Current View

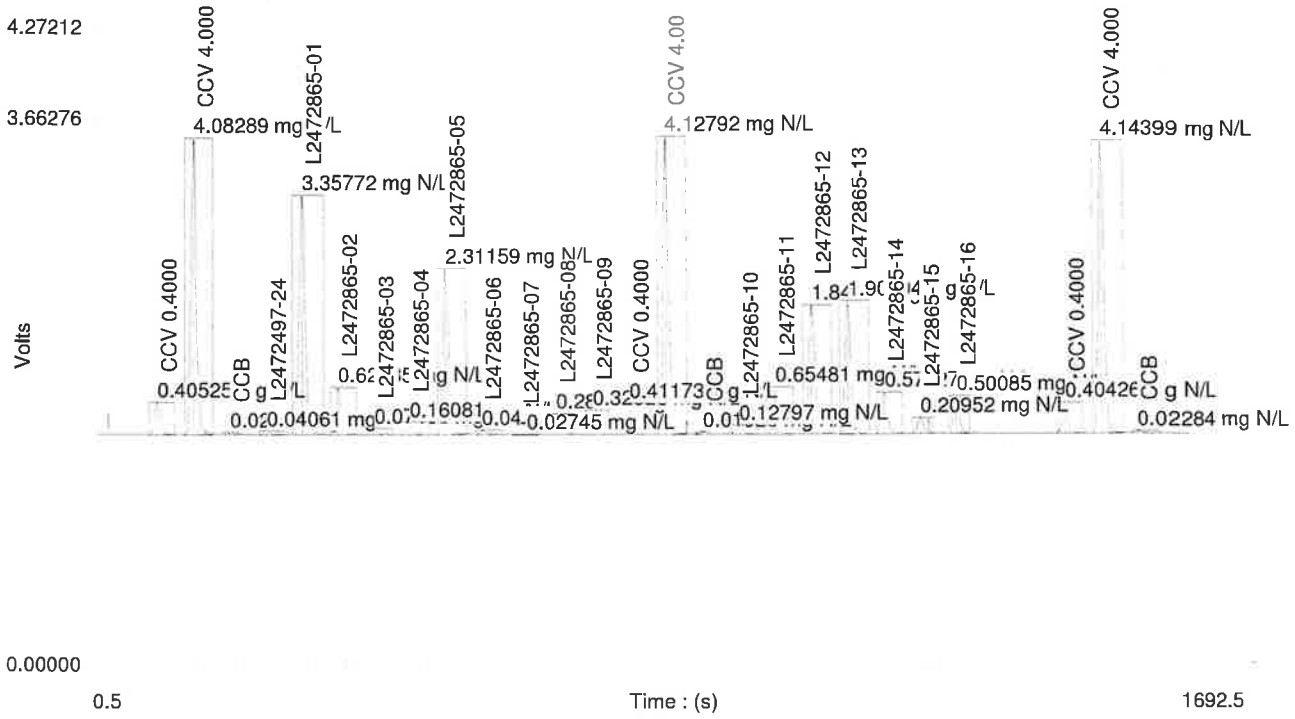
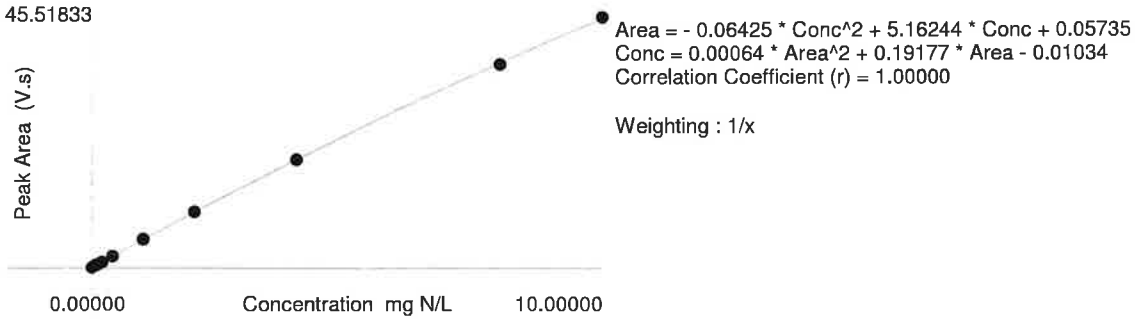


Table : 1 (Ammonia)

	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	45.51833	4.25781	0.0	-0.6	10.04433	12/19/2024	10:20:37 AM
2	8.00000	1	36.90921	3.53728	0.0	0.9	7.93933	12/19/2024	10:21:34 AM
3	4.00000	1	19.64925	1.92181	0.0	0.2	4.00481	12/19/2024	10:22:31 AM
4	2.00000	1	10.19119	1.00733	0.0	-0.7	2.01047	12/19/2024	10:23:28 AM
5	1.00000	1	5.22384	0.51189	0.0	-1.3	1.00889	12/19/2024	10:24:26 AM
6	0.40000	1	2.08298	0.20268	0.0	1.4	0.39189	12/19/2024	10:25:24 AM
7	0.20000	1	1.05646	0.10246	0.0	2.8	0.19297	12/19/2024	10:26:22 AM
8	0.10000	1	0.61104	0.05421	0.0	-6.6	0.10708	12/19/2024	10:27:20 AM
9	0.05000	1	0.30640	0.02924	0.0	2.8	0.04848	12/19/2024	10:28:17 AM
10	0.00000	1	0.05465	0.00362			0.00014	12/19/2024	10:29:14 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

Date : 12/19/2024

Original Run Filename: OM_12-19-2024_04-58-06PM.OMN Created: 12/19/2024 4:58:06 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-19-2024_04-58-06PM.OMN Last Modified: 12/19/2024 5:37:55 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	0.37727	94%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	4.10703	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.01736	✓		
	Known Conc:		100.00000			
WG2010882-1 T; BLK 12/18	1	1	0.00613			
WG2010882-2 T; HI LCS; 5X	1	2	39.91248		15.00	100%
LO LCS T	1	3	4.16316		3.00	104%
L2471210-02 T	1	4	2.17789	✓	3.00	
WG2010882-4 T; 71210.2 MS	1	5	11.11030		3.00	112%
WG2010882-3 T; 71210.2 DUP	1	6	2.42920	✓	3.00	11%
L2472603-01 T	1	7	4.48721		6.00	
L2472603-02 T	1	8	0.51354		3.00	
L2472826-01 T	1	9	2.91593		3.00	
L2472825-01 T	1	10	0.59537		3.00	
CCV 0.4000	1	S6	0.39388	99%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.13988	104%		
	Known Conc:		100.00000			
CCB	1	S10	0.02478	✓		
	Known Conc:		100.00000			
L2472617-01 T	1	11	247.91176		30.00	
L2472735-01 T	1	12	146.55615		30.00	
L2472735-02 T	1	13	58.60928		30.00	
L2472735-03 T	1	14	43.56824		30.00	
L2472735-04 T	1	15	72.78914		30.00	
~~L2472542-01 T~~	~~1~~	~~16~~	~~52.07748~~		3.00	w/dilution.
L2472555-01 T	1	~~17~~	~~1.88462~~		3.00	
L2472627-01 T	1	18	0.35300		3.00	
~~L2472629-01 T~~	1	~~19~~	~~52.75245~~		~~3.00~~	
~~L2472626-02 T~~	1	~~20~~	~~4.34320~~		~~3.00~~	
CCV 0.4000	1	S6	0.42040	105%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.14952	104%		
	Known Conc:		100.00000			
CCB	1	S10	0.03666	✓		
	Known Conc:		100.00000			
L2472542-01 T; 10X	1	21	55.91053		30.00	
L2472555-01 T	1	22	1.18985		3.00	
L2472629-01 T; 10X	1	23	54.60867		30.00	
L2472626-02 T	1	24	3.57358		3.00	
CCV 0.4000	1	S6	0.39848	100%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.13313	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.02876	✓		
	Known Conc:		100.00000			

C

Author: A1WETCHEMINSTRUMENT

Date : 12/19/2024

Channel 2 (Ammonia High) - Current View

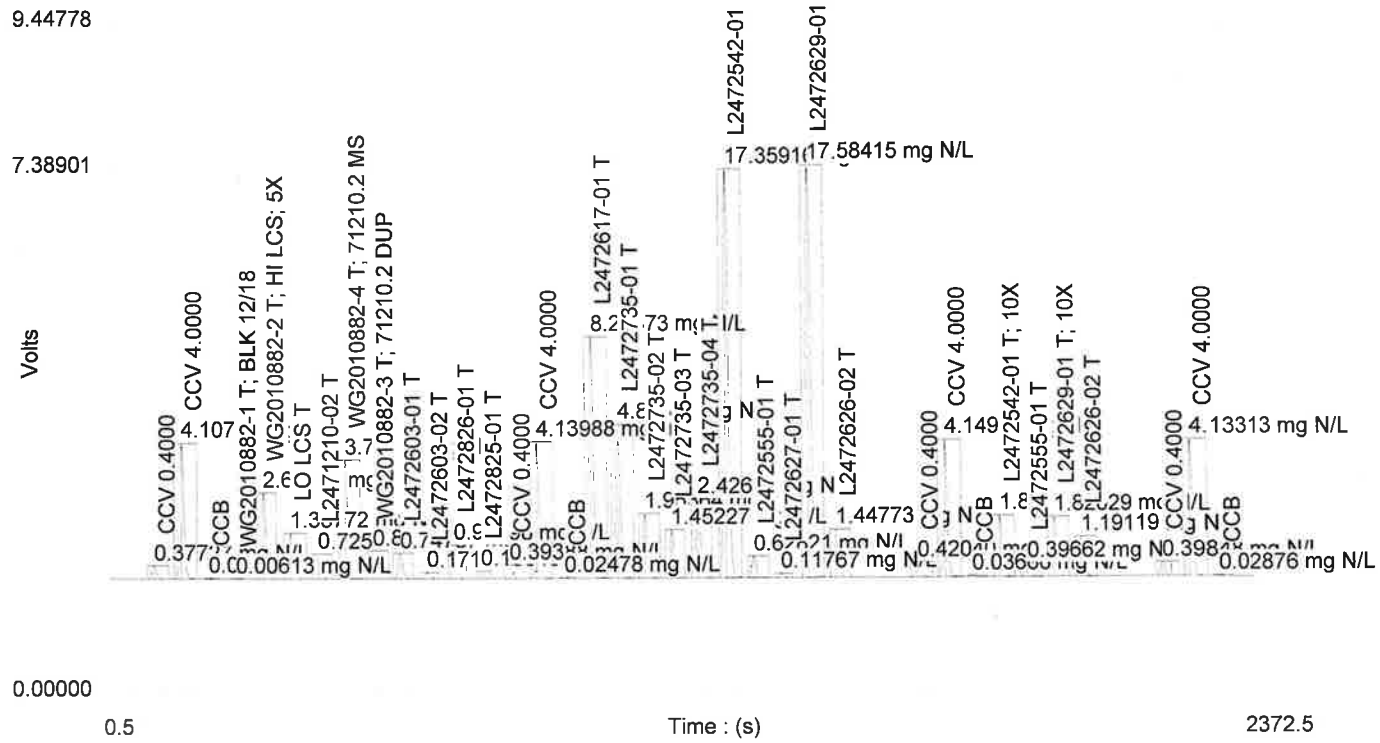
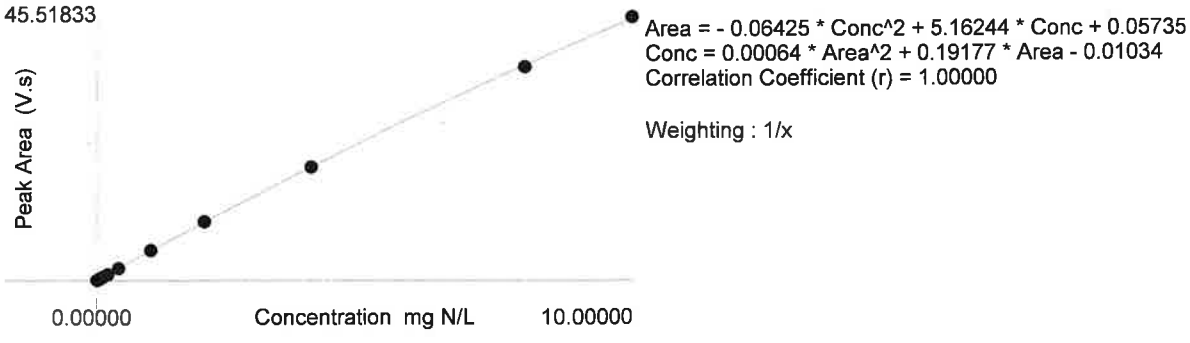


Table : 1 (Ammonia)

	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	45.51833	4.25781	0.0	-0.6	10.04433	12/19/2024	10:20:37 AM
2	8.00000	1	36.90921	3.53728	0.0	0.9	7.93933	12/19/2024	10:21:34 AM
3	4.00000	1	19.64925	1.92181	0.0	0.2	4.00481	12/19/2024	10:22:31 AM
4	2.00000	1	10.19119	1.00733	0.0	-0.7	2.01047	12/19/2024	10:23:28 AM
5	1.00000	1	5.22384	0.51189	0.0	-1.3	1.00889	12/19/2024	10:24:26 AM
6	0.40000	1	2.08298	0.20268	0.0	1.4	0.39189	12/19/2024	10:25:24 AM
7	0.20000	1	1.05646	0.10246	0.0	2.8	0.19297	12/19/2024	10:26:22 AM
8	0.10000	1	0.61104	0.05421	0.0	-6.6	0.10708	12/19/2024	10:27:20 AM
9	0.05000	1	0.30640	0.02924	0.0	2.8	0.04848	12/19/2024	10:28:17 AM
10	0.00000	1	0.05465	0.00362			0.00014	12/19/2024	10:29:14 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT Date : 12/19/2024

Original Run Filename: OM_12-19-2024_06-09-26PM.OMN Created: 12/19/2024 6:09:26 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-19-2024_06-09-26PM.OMN Last Modified: 12/19/2024 6:40:45 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	0.40149	100%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	4.14014	104%		
	Known Conc:		100.00000			
CCB	1	S10	0.03301			
	Known Conc:		100.00000			
WG2010830-1 T; BLK 12/18	1	1	0.00469			
WG2010830-2 T; HI LCS; 5X	1	2	41.67208		15.00	104%
LO LCS T	1	3	4.01611		3.00	
L2472546-01 T; 10X	1	4	47.37114		30.00	101%
~~L2472564-02 T~~ 546.2	1	5	1.14352		3.00	
WG2010830-4 T; 72546.2 MS	1	6	6.51955		3.00	67%
WG2010830-3 T; 72546.2 DUP	1	7	1.81928		3.00	46%
L2472545-01 T	1	8	21.48649		3.00	
L2472545-02 T	1	9	13.83322		3.00	
L2472558-01 T	1	10	14.04817		30.00	
CCV 0.4000	1	S6	0.42554	107%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.11751	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.03422			
	Known Conc:		100.00000			
L2472556-01 T	1	11	0.66097		6.00	
L2472557-01 T; 10X	1	12	50.28617		30.00	
L2472709-01 T	1	13	0.53698		3.00	
L2472709-02 T	1	14	0.47807		3.00	
L2473464-01 T	1	15	19.94227		3.00	
L2472175-01 T	1	16	1.40404		3.00	
L2472421-05 T	1	17	0.22411		3.00	
L2472929-01 T	1	18	1.41993		3.00	
L2473859-01 T; 25X	1	19	170.97267		75.00	
L2472559-01 T	1	20	8.26532		30.00	
CCV 0.4000	1	S6	0.39801	100%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.11181	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.03410			
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 12/19/2024

Channel 2 (Ammonia High) - Current View

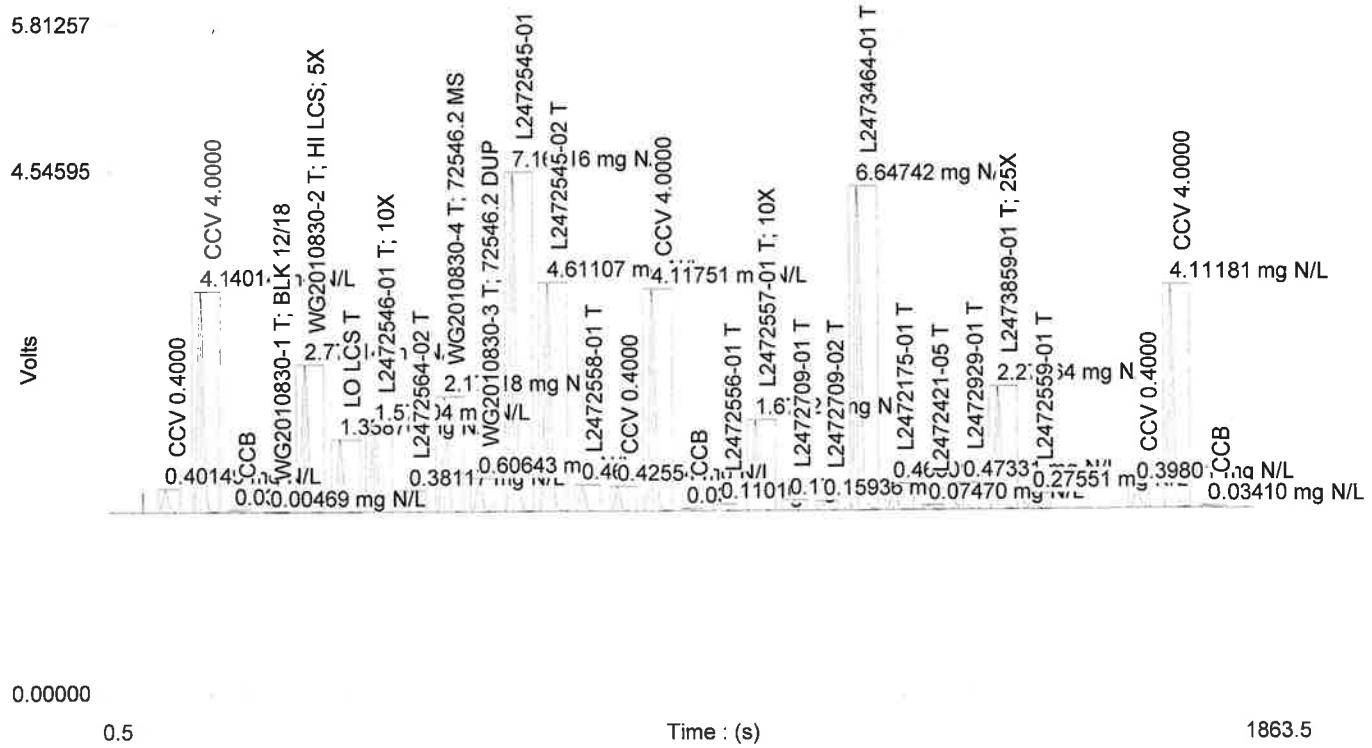
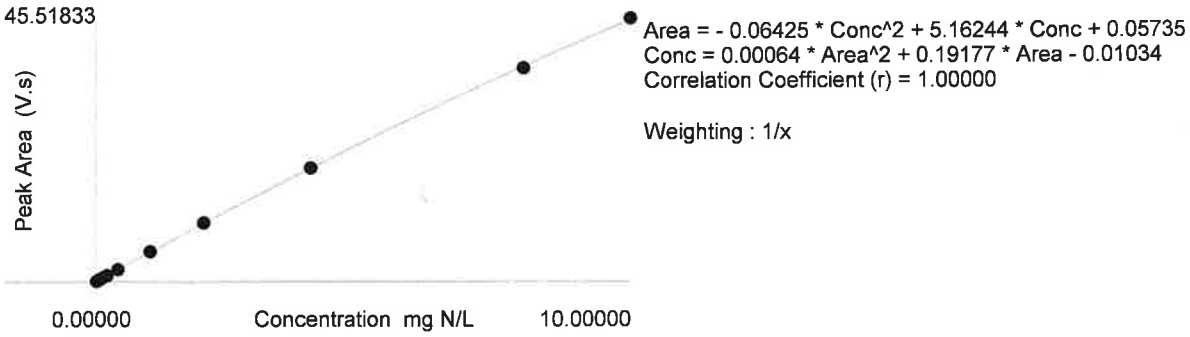


Table : 1 (Ammonia)

	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	45.51833	4.25781	0.0	-0.6	10.04433	12/19/2024	10:20:37 AM
2	8.00000	1	36.90921	3.53728	0.0	0.9	7.93933	12/19/2024	10:21:34 AM
3	4.00000	1	19.64925	1.92181	0.0	0.2	4.00481	12/19/2024	10:22:31 AM
4	2.00000	1	10.19119	1.00733	0.0	-0.7	2.01047	12/19/2024	10:23:28 AM
5	1.00000	1	5.22384	0.51189	0.0	-1.3	1.00889	12/19/2024	10:24:26 AM
6	0.40000	1	2.08298	0.20268	0.0	1.4	0.39189	12/19/2024	10:25:24 AM
7	0.20000	1	1.05646	0.10246	0.0	2.8	0.19297	12/19/2024	10:26:22 AM
8	0.10000	1	0.61104	0.05421	0.0	-6.6	0.10708	12/19/2024	10:27:20 AM
9	0.05000	1	0.30640	0.02924	0.0	2.8	0.04848	12/19/2024	10:28:17 AM
10	0.00000	1	0.05465	0.00362			0.00014	12/19/2024	10:29:14 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

Date : 12/19/2024

Original Run Filename: OM_12-19-2024_08-29-26PM.OMN Created: 12/19/2024 8:29:26 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-19-2024_08-29-26PM.OMN Last Modified: 12/19/2024 9:00:45 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

E

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.39113	98%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.09410	102%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.02778	/		
	Known Conc:		100.00000			
WG2010837-1 T; BLK 12/18	1	1	0.01026			
WG2010837-2 T; HI LCS; 5X	1	2	40.57987		15.00	101%
LO LCS T	1	3	4.03471		3.00	101%
L2473538-01 T	1	4	0.20081		3.00	
L2473538-02 T	1	5	0.08918		3.00	
L2473538-03 T	1	6	0.02437		3.00	
L2473538-04 T	1	7	0.12504		3.00	
L2473538-05 T	1	8	0.15287		3.00	
L2473051-01 T	1	9	0.15414		3.00	
L2473051-02 T	1	10	0.70925		3.00	
CCV 0.4000	1	S6	0.39948	100%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.11996	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.02791	/		
	Known Conc:		100.00000			
L2474278-01 T	1	11	0.07803		3.00	
L2474278-02 T	1	12	0.06702		3.00	
L2474278-03 T	1	13	0.09647		3.00	
L2474285-01 T	1	14	3.39860	-	3.00	114%
WG2010837-4 T; 74285.1 MS	1	15	12.54071		3.00	
WG2010837-3 T; 74285.1 DUP	1	16	3.41736	/	3.00	1%
L2472759-14 T	1	17	0.56741		3.00	
L2472759-15 T	1	18	0.16353		3.00	
L2472759-16 T	1	19	0.34272		3.00	
L2472759-17 T	1	20	0.10395		3.00	
CCV 0.4000	1	S6	0.39755	100%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.09749	102%		
	Known Conc:		100.00000			
CCB	1	S10	0.02841	/		
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 12/19/2024

Channel 2 (Ammonia High) - Current View

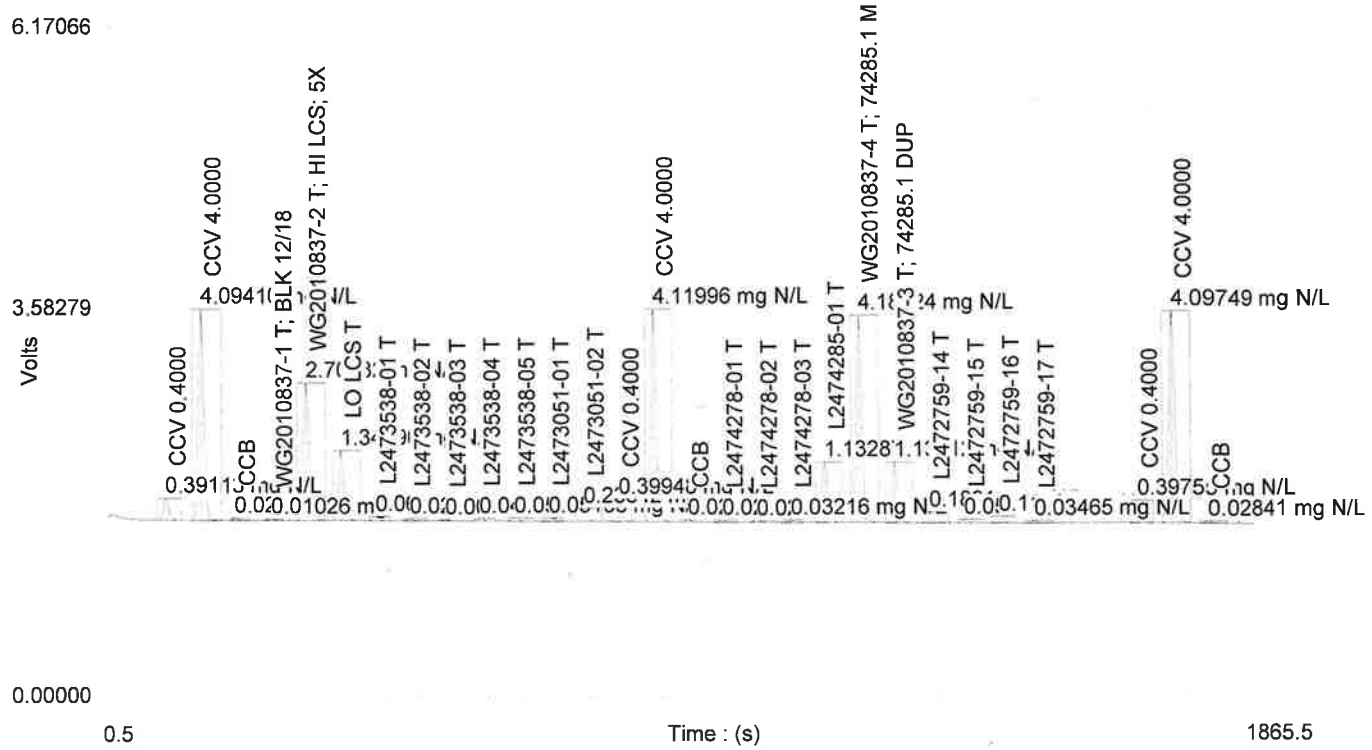
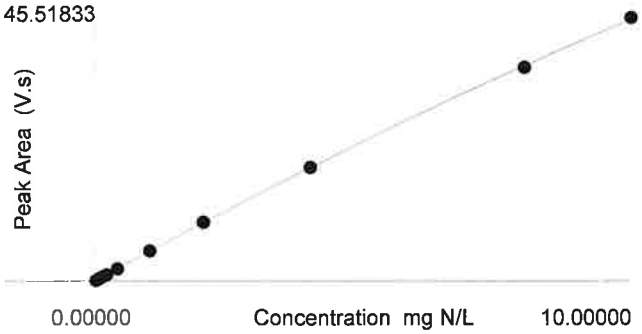


Table : 1 (Ammonia)

	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	45.51833	4.25781	0.0	-0.6	10.04433	12/19/2024	10:20:37 AM
2	8.00000	1	36.90921	3.53728	0.0	0.9	7.93933	12/19/2024	10:21:34 AM
3	4.00000	1	19.64925	1.92181	0.0	0.2	4.00481	12/19/2024	10:22:31 AM
4	2.00000	1	10.19119	1.00733	0.0	-0.7	2.01047	12/19/2024	10:23:28 AM
5	1.00000	1	5.22384	0.51189	0.0	-1.3	1.00889	12/19/2024	10:24:26 AM
6	0.40000	1	2.08298	0.20268	0.0	1.4	0.39189	12/19/2024	10:25:24 AM
7	0.20000	1	1.05646	0.10246	0.0	2.8	0.19297	12/19/2024	10:26:22 AM
8	0.10000	1	0.61104	0.05421	0.0	-6.6	0.10708	12/19/2024	10:27:20 AM
9	0.05000	1	0.30640	0.02924	0.0	2.8	0.04848	12/19/2024	10:28:17 AM
10	0.00000	1	0.05465	0.00362			0.00014	12/19/2024	10:29:14 AM

Figure : 1 (Ammonia)



Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: DW
Lab Sample ID	: L2474285-01		
Matrix Spike	: WG2010837-4	**MS Analysis Date**	: 12/19/24 20:49
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	3.40	8	12.5	114	Q					77-111	24

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: DW
Lab Sample ID	: NA	**Analysis Date**	: 12/19/24 20:48
Dup Sample ID	: WG2010837-3	**DUP Analysis Date**	: 12/19/24 20:50

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Total Kjeldahl	3.40	3.42	1	24

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: DW
Lab Sample ID	: WG2010837-2	**LCS Analysis Date**	: 12/19/24 20:34
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**	**40.6**	**102.**					**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

TITLE NH3 12/19/24 KFM

Project No. _____

Book No. _____

Confic

From Page No. ____

Tray A (10-18-40AM)
prep 12/18/24 @22:58

1	Hi ICV 8.0
2	Lo ICV 1.0
3	ICB
4	WG20108877-1, Blk
5	-2, LCS Hi, 5X
6	LCS Lo
7	72735-01 (20X)
8	-02 (20X)
9	-03 (20X)
10	-04 (20X)
11	72759-14
12	-15
13	-16
14	-17
15	-17 MS
16	-17 Dup
17	73057-01
18	-02 (5X)

Tray B (11-01-39AM, 11-20-46AM)
prep 12/18/24 @22:49

1	WG20108875-1, Blk
2	(0873)-2, LCS Hi, 5X
3	LCS Lo
4	72609-01
5	-01 MS
6	-01 Dup
7	-02
8	72497-22
9	KFM -22 MS
10	-22 Dup
11	-24
12	72865-01
13	-02
14	-03
15	-04
16	-05
17	-06 (100X)
18	-07
19	-08
20	-09
21	-10 (5X)
22	-11 (2X)
23	-12
24	-13
25	-14
26	-15
27	-16

Date: ~~12/12~~ KFM 12/19/24
Sodium Phenolate: 12/2/24 R-4065
Sodium Hypochlorate: 12/2/24 stop+shop
Sodium Nitropruisside: 12/2/24 R-3969
Borric Acid Soln.: 12/2/24 R-4019
ICV 1.0: 12/9/24 WC-3508
ICV 8.0:
Cal. Std: 12/9/24 WC-3438
See Front Page for Instructions:

KFM

KFM

To Page No

Witnessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

Project No. _____ NH3 12/19/24 AF Cont

dential Book No. _____ TITLE _____

Page No. ____

tg.C (04-58-06 Pm)
Pkg 12/18/24 @2233

1 WL-2010882-1 T; Blk 12/18
2 WL-2010882-2 T; Hi ag + T
3 Low T
4 71210.2 T
5 WL-2010882-4 T; 71210.2 ms
6 WL-2010882-3 T; 71210.2 ag
7 72605.1 T (2+)
8 .2
9 72826.1 T
10 72825.1 T
11 72617.1 T (10+) - 4+
12 72735.1 T (10+)
13 .2 T (10+)
14 .3 T (10+)
15 .4 T (10+)
16 72542.1 T -10+
17 72555.1 T
18 72627.1 T
19 72629.1 T
20 72626.2 T

(06-09-26 Pm)
tg.D (~~05-38 Pm~~)
Pkg 12/18/24 @1700

1 WL-2010830-1 T; Blk 12/18 (2010836)
2 WL-2010830-2 T; Hi ag + T
3 Low T
4 72546.1 T -10+
5 .2 T
6 WL-2010830-4 T; 72546.2 ms
7 WL-2010830-3 T; 72546.2 ag
8 72545.1 T
9 .2 T
10 72558.1 T (10+)
11 72556.1 T (2+) -10+
12 72557.1 T -10+
13 72709.1 T
14 .2 T
15 73464.1 T
16 72175.1 T
17 72421.5 T
18 72929.1 T
19 73859.1 T - 4+
20 72559.1 T (10+)

To Page No. ____

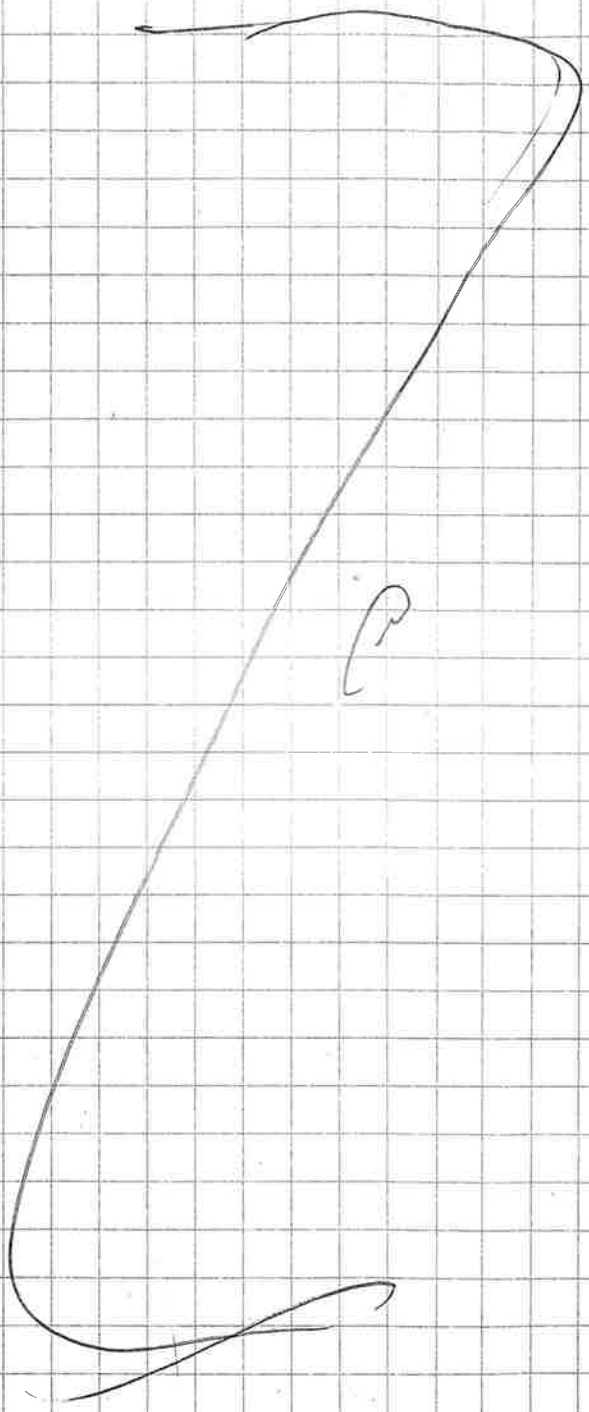
ssed & Understood by me, | Date | Invented by: | Date

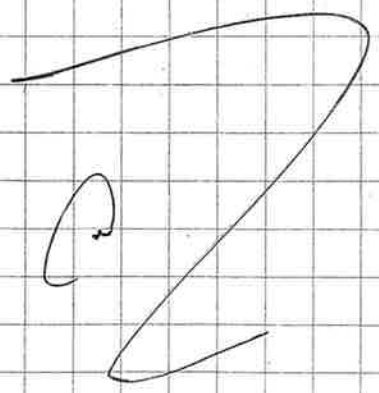
Recorded by:

From Page No. ____

Ky. E (08-29-24 PM)
Pgs 12/18/24 @ 1700

1 WO-20108374 T; Blue 12/18
2 WO-20108372 T; Hi wsf +
3 WO-20108373 T
4 73538.1 T
5 .2 T
6 .3 T
7 .4 T
8 .5 T
9 73057.1 T
10 .2 T
11 74278.1 T
12 .2 T
13 .3 T
14 74285.1 T
15 WO-20108374 T; 74285.1 MS
16 WO-20108373 T; 74285.1 Dup
17 72759.14 T
18 .15 T
19 .16 T
20 .17 T





To Page

Witnessed & Understood by me,	Date	Invented by:	Da
		Recorded by:	

Sample Preparation

WG2010837

Sample	Dilution	Volume	Final Vol.
Blank	1x	50mL	150mL
Lcs			
High			
2247275 9 - 14			
-15			
-16			
-17			
73051 - 01			
-02			
73538 - 01			
-02			
-03			
-04			
-05			
74278-01			
-02			
-03			
74285-01 Pt.			
-01 Dup			
-01 MS			

Same Standards & Reagents as previous pg. #127

12 18 24 @ 17:00 SAD

Nitrates checked ✓

To Page No.

Nitrate and Nitrite Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-01	**Date Collected**	:	12/13/24 08:20
Client ID	:	PZ-5	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/15/24 08:03
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241215-A1	**Instrument ID**	:	LACHAT4
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**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-02	**Date Collected**	:	12/13/24 09:45
Client ID	:	MW-5D	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/15/24 08:34
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241215-A1	**Instrument ID**	:	LACHAT4
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**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-03	**Date Collected**	:	12/13/24 11:20
Client ID	:	SCDOH-DR	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/15/24 08:35
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241215-A1	**Instrument ID**	:	LACHAT4
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**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-04	**Date Collected**	:	12/13/24 12:43
Client ID	:	MW-10S	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/15/24 08:36
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241215-A1	**Instrument ID**	:	LACHAT4
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**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-05	**Date Collected**	:	12/13/24 12:30
Client ID	:	MW-10D	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/15/24 08:38
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241215-A1	**Instrument ID**	:	LACHAT4
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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2009329-1	**Date Collected**	: NA
Client ID	: WG2009329-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/15/24 08:18
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3241215-A1	**Instrument ID**	: LACHAT4
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**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	WG2009329-3	**Date Collected**	:	12/13/24 08:20
Client ID	:	PZ-5DUP	**Date Received**	:	12/13/24
Sample Location	:		**Date Analyzed**	:	12/15/24 08:07
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241215-A1	**Instrument ID**	:	LACHAT4
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**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-01	**Date Collected**	:	12/13/24 08:20
Client ID	:	PZ-5	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/15/24 08:03
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241215-A1	**Instrument ID**	:	LACHAT4
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14797-55-8	Nitrogen, Nitrate	1.14	0.100	0.022	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-02	**Date Collected**	:	12/13/24 09:45
Client ID	:	MW-5D	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/15/24 08:34
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241215-A1	**Instrument ID**	:	LACHAT4
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14797-55-8	Nitrogen, Nitrate	6.70	0.100	0.022	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-03	**Date Collected**	:	12/13/24 11:20
Client ID	:	SCDOH-DR	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/15/24 08:35
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241215-A1	**Instrument ID**	:	LACHAT4
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14797-55-8	Nitrogen, Nitrate	3.47	0.100	0.022	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2473538
Project Name	:	CORAM MATERIALS	Project Number	:	2232.0006Y005
Lab ID	:	L2473538-04	Date Collected	:	12/13/24 12:43
Client ID	:	MW-10S	Date Received	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	:	12/15/24 08:36
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	121,4500NO3-F	Analyst	:	KAF
Lab File ID	:	NO3241215-A1	Instrument ID	:	LACHAT4
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
14797-55-8	Nitrogen, Nitrate	0.826	0.100	0.022	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-05	**Date Collected**	:	12/13/24 12:30
Client ID	:	MW-10D	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/15/24 08:38
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241215-A1	**Instrument ID**	:	LACHAT4
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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2009330-1	**Date Collected**	: NA
Client ID	: WG2009330-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/15/24 08:21
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3241215-A1	**Instrument ID**	: LACHAT4
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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2009330-3	**Date Collected**	: 12/13/24 08:20
Client ID	: PZ-5DUP	**Date Received**	: 12/13/24
Sample Location	:	**Date Analyzed**	: 12/15/24 08:04
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3241215-A1	**Instrument ID**	: LACHAT4
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14797-55-8	Nitrogen, Nitrate	1.13	0.100	0.023	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-01	**Date Collected**	:	12/13/24 08:20
Client ID	:	PZ-5	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/15/24 08:03
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241215-A1	**Instrument ID**	:	LACHAT4
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	1.1	0.10	0.046	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-02	**Date Collected**	:	12/13/24 09:45
Client ID	:	MW-5D	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/15/24 08:34
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241215-A1	**Instrument ID**	:	LACHAT4
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	6.7	0.10	0.046	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2473538
Project Name	:	CORAM MATERIALS	Project Number	:	2232.0006Y005
Lab ID	:	L2473538-03	Date Collected	:	12/13/24 11:20
Client ID	:	SCDOH-DR	Date Received	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	:	12/15/24 08:35
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	121,4500NO3-F	Analyst	:	KAF
Lab File ID	:	NO3241215-A1	Instrument ID	:	LACHAT4
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
NONE	Nitrogen, Nitrate/Nitrite	3.5	0.10	0.046	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-04	**Date Collected**	:	12/13/24 12:43
Client ID	:	MW-10S	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/15/24 08:36
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241215-A1	**Instrument ID**	:	LACHAT4
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.82	0.10	0.046	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-05	**Date Collected**	:	12/13/24 12:30
Client ID	:	MW-10D	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/15/24 08:38
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241215-A1	**Instrument ID**	:	LACHAT4
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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2009328-1	**Date Collected**	: NA
Client ID	: WG2009328-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/15/24 08:21
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3241215-A1	**Instrument ID**	: LACHAT4
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**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	WG2009328-3	**Date Collected**	:	12/13/24 08:20
Client ID	:	PZ-5DUP	**Date Received**	:	12/13/24
Sample Location	:		**Date Analyzed**	:	12/15/24 08:04
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3241215-A1	**Instrument ID**	:	LACHAT4
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	1.1	0.10	0.05	

Sample Raw Data

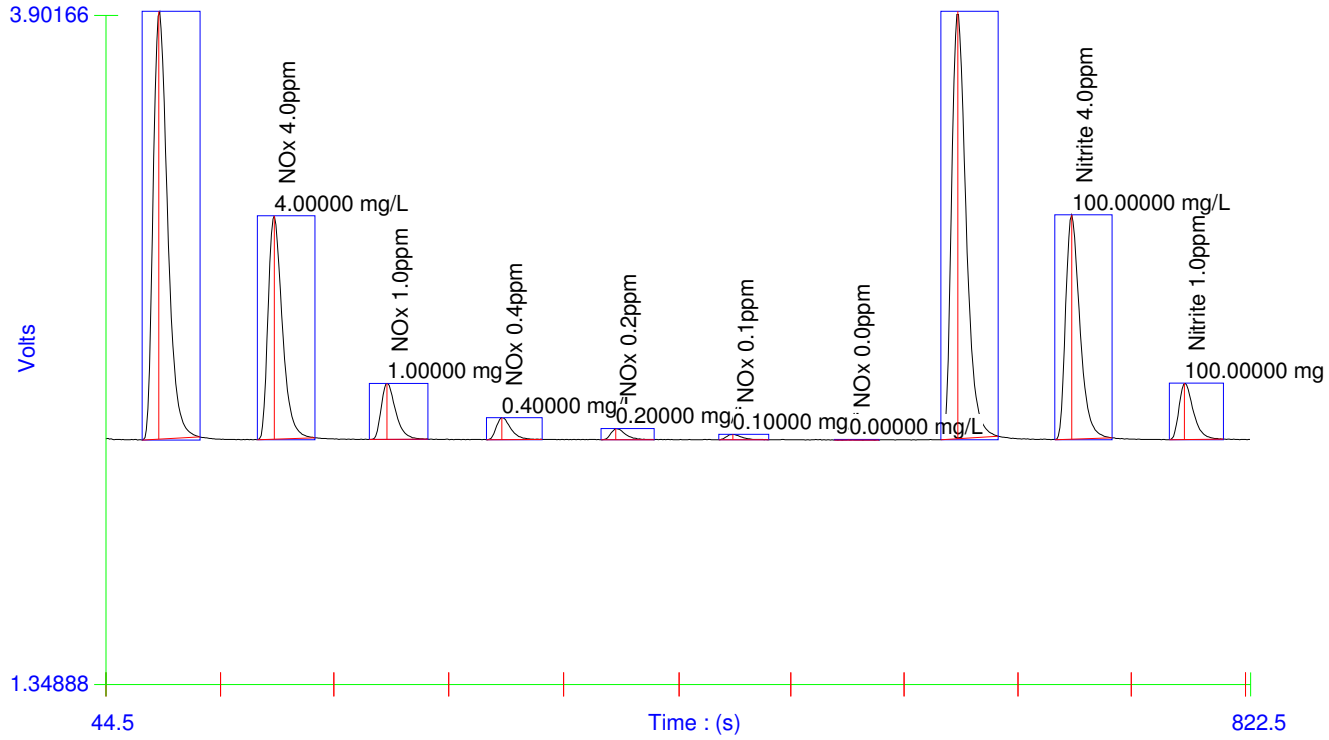
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Original Run Author's Signature: [A1wetcheminstrument]
Current Run Filename: OM_12-15-2024_07-17-06AM.OMN Last Modified: 12/15/2024 9:53:00 AM
Current Run Author's Signature: [A1wetcheminstrument]
Description: Default New Run

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	1.01099	-0.00789			
	Known Conc:		1.00000	0.00000			
	Calibration:		Table/Fig. : 1	Table/Fig. : 2			
CCV NO2	1	S9	1.01780	1.05378			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01531	-0.00800			
	Known Conc:		0.00000	0.00000			
ICV NO3 5.0	1	1	4.87434	-0.01412			
ICV NO2 5.0	1	2	4.92057	4.99615			
ICV NO3 0.5	1	3	0.49330	-0.01075			
ICV NO2 0.5	1	4	0.50122	0.51870			
ICB	1	5	-0.01662	-0.00577			
L2473588-07G	1	30	0.00832	0.00187			
L2473465-01A	1	43	2.77393	0.03720			
WG2009327-3; NO2	1	44	2.75247	0.02609			
WG2009327-4; NO2	1	45	6.74882	4.30892			
DILUTER CHK 8PPM	1	6	6.41758	-0.09054	5.00		
CCV NO3	1	S2	1.02624	-0.00705			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.02732	1.06622			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01537	-0.01138			
	Known Conc:		0.00000	0.00000			
BLK NO3	1	7	-0.01456	-0.00473			
LCS NO3	1	8	4.89800	-0.00496			
BLK NO2	1	9	-0.01551	-0.00524			
LCS NO2	1	10	4.96612	5.04268			
L2473538-01N	1	46	1.13791	-0.02125			
WG2009330/328-3; NO3	1	47	1.12944	-0.00453			
WG2009330/328-4; NO3	1	48	4.77475	0.01663			
WG2009329-3; NO2	1	49	1.13174	-0.01225			
WG2009329-4; NO2	1	50	5.05339	4.07893			
WG2009229-1; NO2	1	11	-0.01476	-0.01478			
CCV NO3	1	S2	1.02415	-0.01150			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.03066	1.07472			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01209	-0.01175			
	Known Conc:		0.00000	0.00000			
WG2009229-2; NO2	1	12	4.96662	5.05123			
WG2009230-1; NO3	1	13	-0.01406	-0.01713			
WG2009230-2; NO3	1	14	4.90777	-0.01390			
WG2009327/329-1; NO2	1	15	-0.00045	-0.00602			
WG2009327/329-2; NO2	1	16	4.96520	5.02263			
WG2009328/330-1; NO3	1	17	-0.01016	-0.01259			

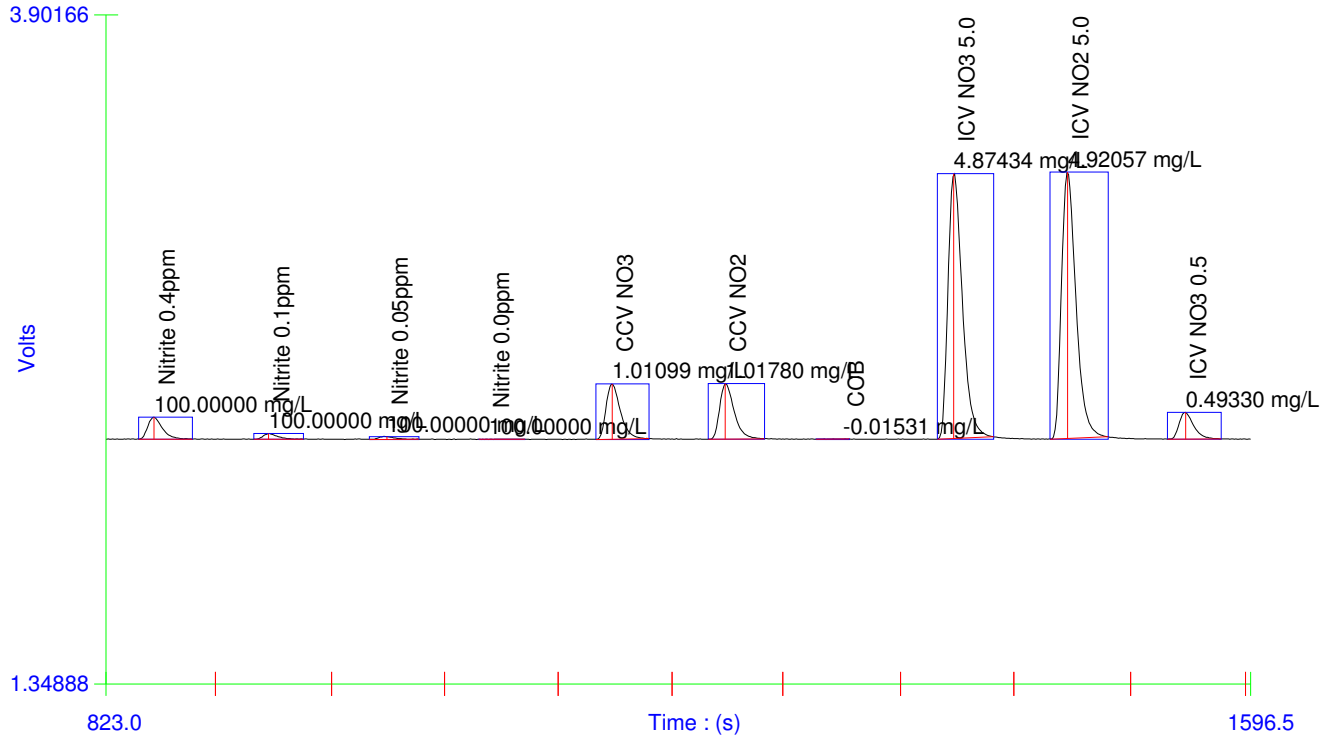
WG2009328/330-2; NO3	1	18	4.86183	-0.01072			
L2473484-01E	1	19	1.32197	0.00592			
WG2009230-3; NO3	1	20	1.31841	-0.00253			
WG2009230-4; NO3	1	21	5.26285	0.02171			
CCV NO3	1	S2	1.02569	-0.01349			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.03542	1.07488			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01478	-0.01200			
	Known Conc:		0.00000	0.00000			
WG2009229-3; NO2	1	22	1.30717	-0.00267			
WG2009229-4; NO2	1	23	5.27151	4.08402			
L2473538-02N	1	51	6.70336	0.00432			
L2473538-03N	1	52	3.46705	0.00267			
L2473538-04N	1	53	0.82553	0.00265			
L2473538-05N	1	54	0.01556	0.00296			
L2473467-01A	1	55	1.20653	0.00373			
L2473588-01D	1	24	30.35174	0.15151			
L2473588-02D	1	25	0.14438	0.05011			
L2473588-03D	1	26	0.34577	0.06320			
CCV NO3	1	S2	1.03037	-0.00661			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.04254	1.07827			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01400	-0.00619			
	Known Conc:		0.00000	0.00000			
L2473588-04D	1	27	0.58501	0.04834			
L2473588-05D	1	28	0.12774	0.06912			
L2473588-06D	1	29	0.02819	0.02002			
L2473588-10A	1	31	0.04603	0.02089			
L2473588-12A	1	32	0.06629	0.04154			
L2473588-14A	1	33	0.58241	0.09161			
L2473588-16A	1	34	3.24341	0.43770			
L2473588-18A	1	35	0.25482	0.24081			
L2473588-20D	1	36	0.03554	0.01730			
L2473588-22D	1	37	18.87602	0.58917			
CCV NO3	1	S2	1.04802	-0.00713			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.03678	1.08107			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01522	-0.01002			
	Known Conc:		0.00000	0.00000			
L2473588-02D	1	25	0.10790	0.05312			
L2473588-24A	1	38	0.67821	0.25613			
L2473588-26A	1	39	6.54228	0.11854			
L2473588-28A	1	40	1.11389	0.33973			
L2473588-30A	1	41	0.03900	0.01311			
L2473588-32D	1	42	18.75740	0.35297			
L2473588-01D; 1 UP TO 25	1	56	71.71395	0.05655		25.00	
L2473588-22D; 1 UP TO 10	1	57	23.66547	0.55783		10.00	
L2473434-01A	1	58	2.07108	-0.00581			
WG2009359-3; NO3	1	59	2.05759	-0.00577			
CCV NO3	1	S2	1.03519	-0.00773			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.04229	1.07925			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00361	-0.01280			
	Known Conc:		0.00000	0.00000			
L2473588-01D; 1 UP TO 25	1	56	71.20164	0.11845		25.00	
WG2009359-4; NO3	1	60	6.11943	-0.00019			
L2473434-02A	1	61	13.15829	0.00259			
L2473447-01A	1	62	5.32623	0.41651			
WG2009358-3; NO3	1	63	5.30796	0.40838			
WG2009358-4; NO3	1	64	8.83367	0.42339			
L2473481-01D	1	65	13.31388	0.00360			
L2473481-02D	1	66	13.82234	0.00330			
L2473481-03D	1	67	1.37099	0.01561			
L2473434-02A; 1 UP TO 10	1	72	14.28549	-0.06184		10.00	

CCV NO3	1	S2	1.03580	-0.01236			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.04292	1.08247			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01568	-0.00846			
	Known Conc:		0.00000	0.00000			
L2473447-01A	1	62	5.31057	0.41866			
L2473588-32D; 1 UP TO 10	1	68	23.26611	0.30859		10.00	
L2473481-01D; 1 UP TO 10	1	69	14.79745	-0.06218		10.00	
L2473481-02D; 1 UP TO 10	1	70	15.50357	-0.04846		10.00	
L2471049-01A	1	71	2.15662	-0.00014			
L2472234-01A	1	73	0.66591	0.00274			
WG2009358-4; NO3; 1 UP TO 10	1	74	9.38011	0.39673		10.00	
CCV NO3	1	S2	1.04047	-0.00493			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.04358	1.08655			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01139	-0.01453			
	Known Conc:		0.00000	0.00000			

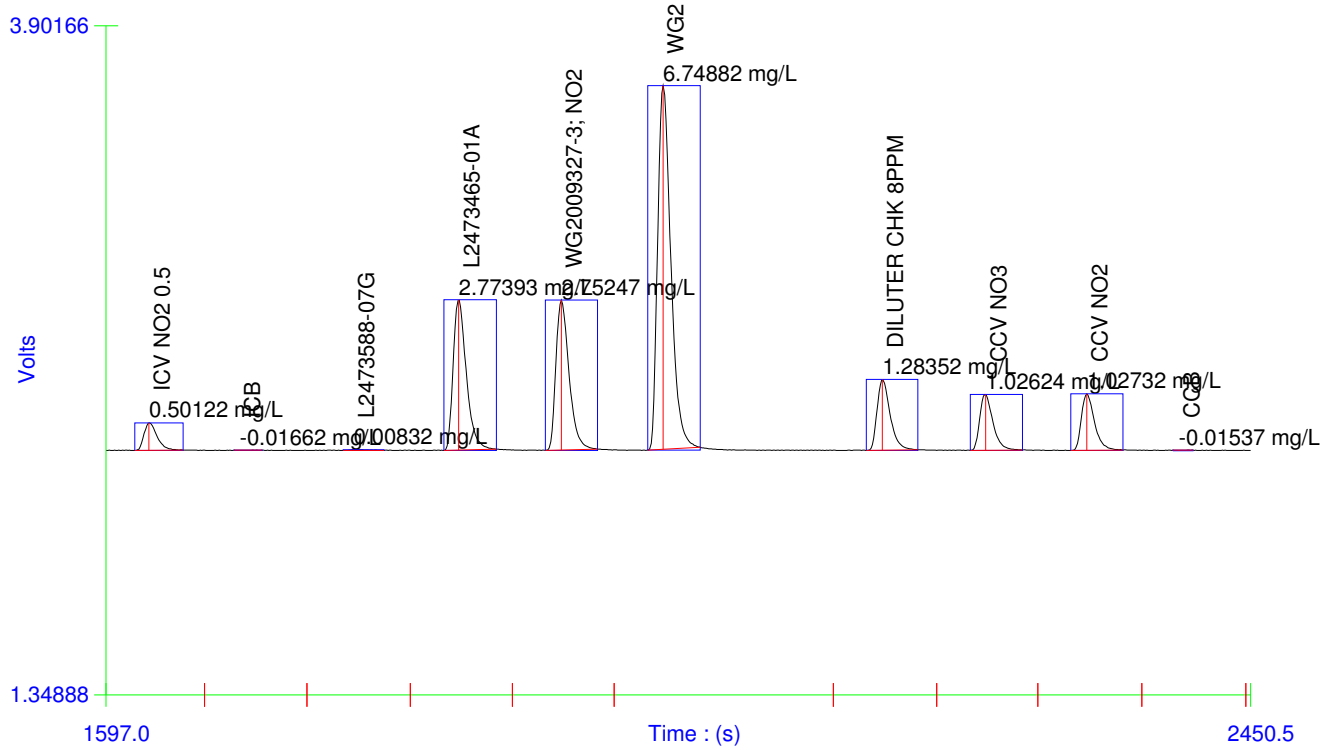
Channel 1 (NO3+NO2) - Set: 1 / 12



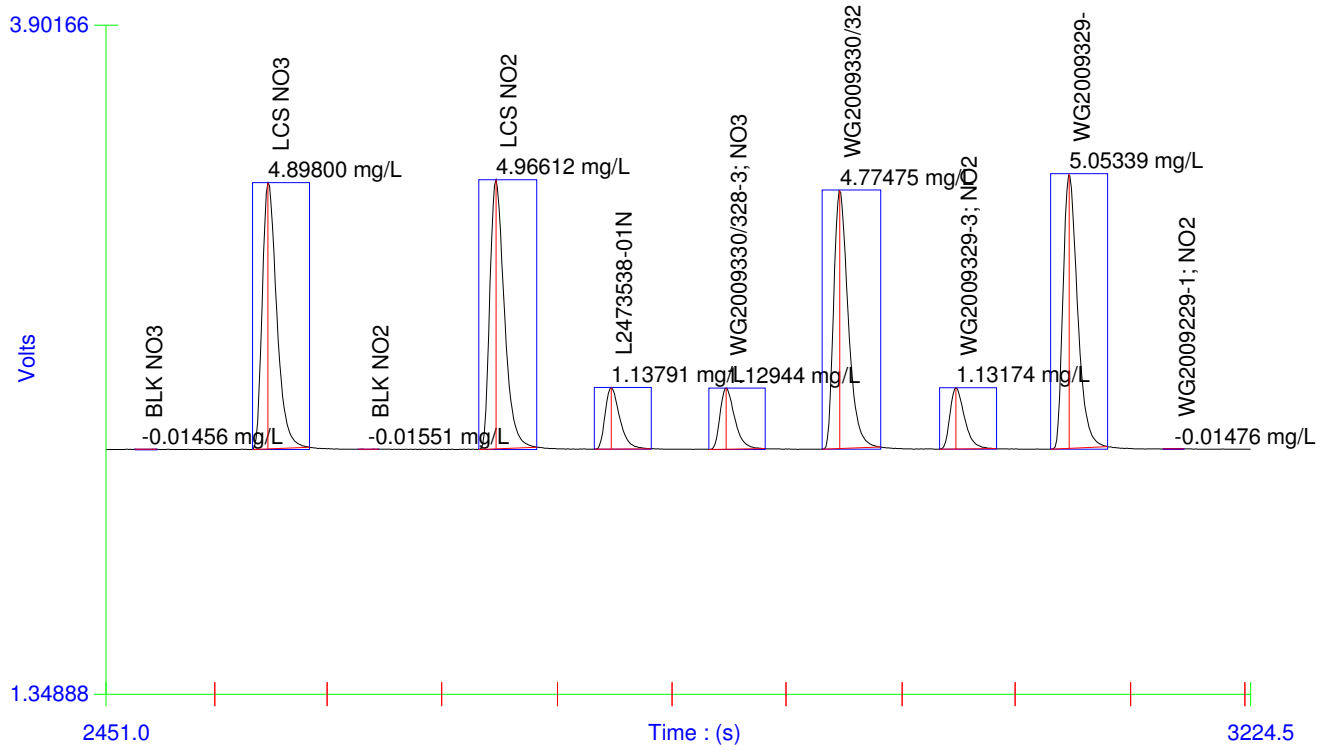
Channel 1 (NO3+NO2) - Set: 2 / 12



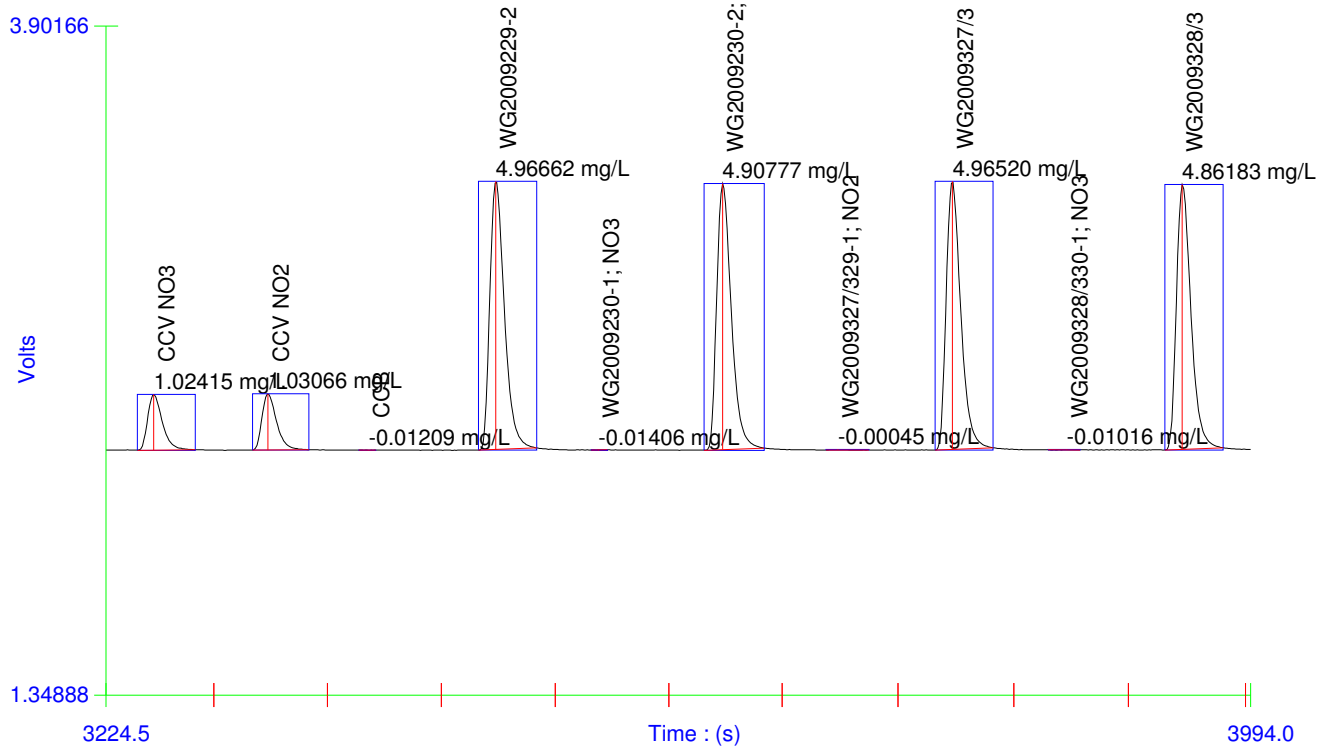
Channel 1 (NO3+NO2) - Set: 3 / 12



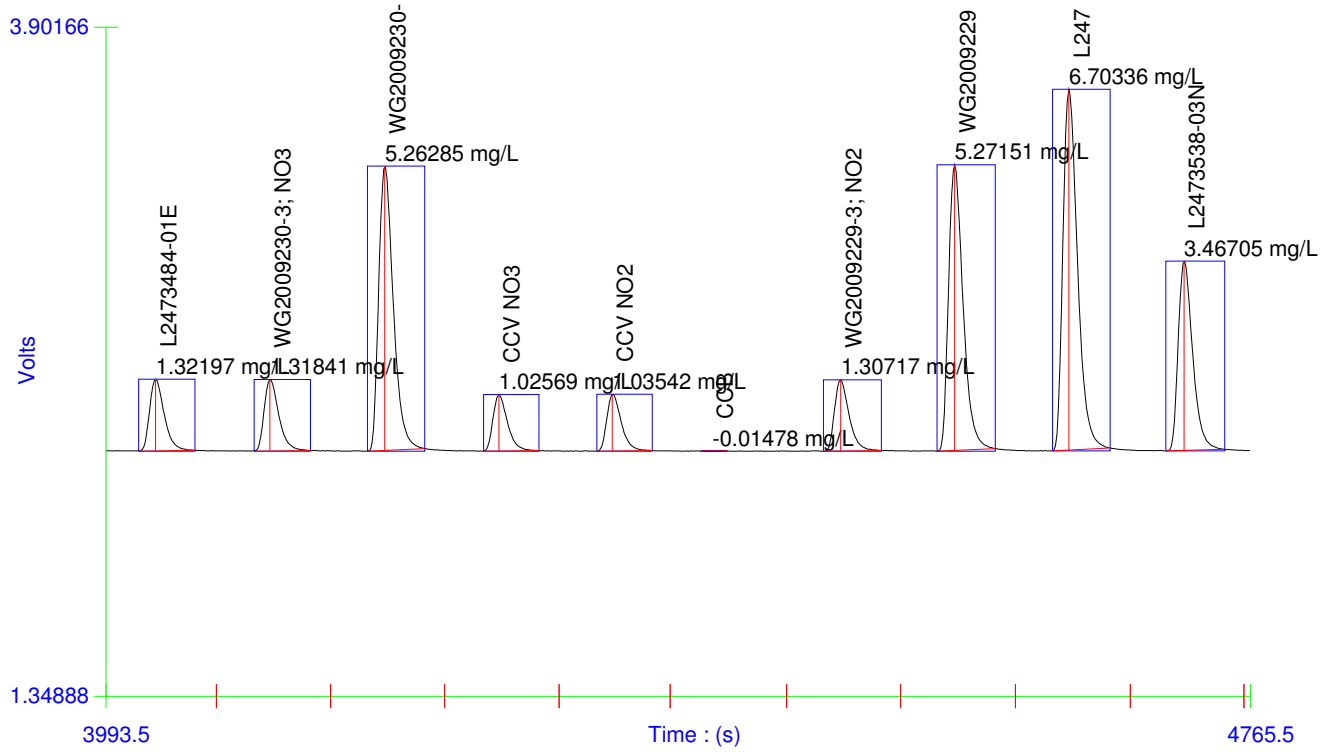
Channel 1 (NO3+NO2) - Set: 4 / 12



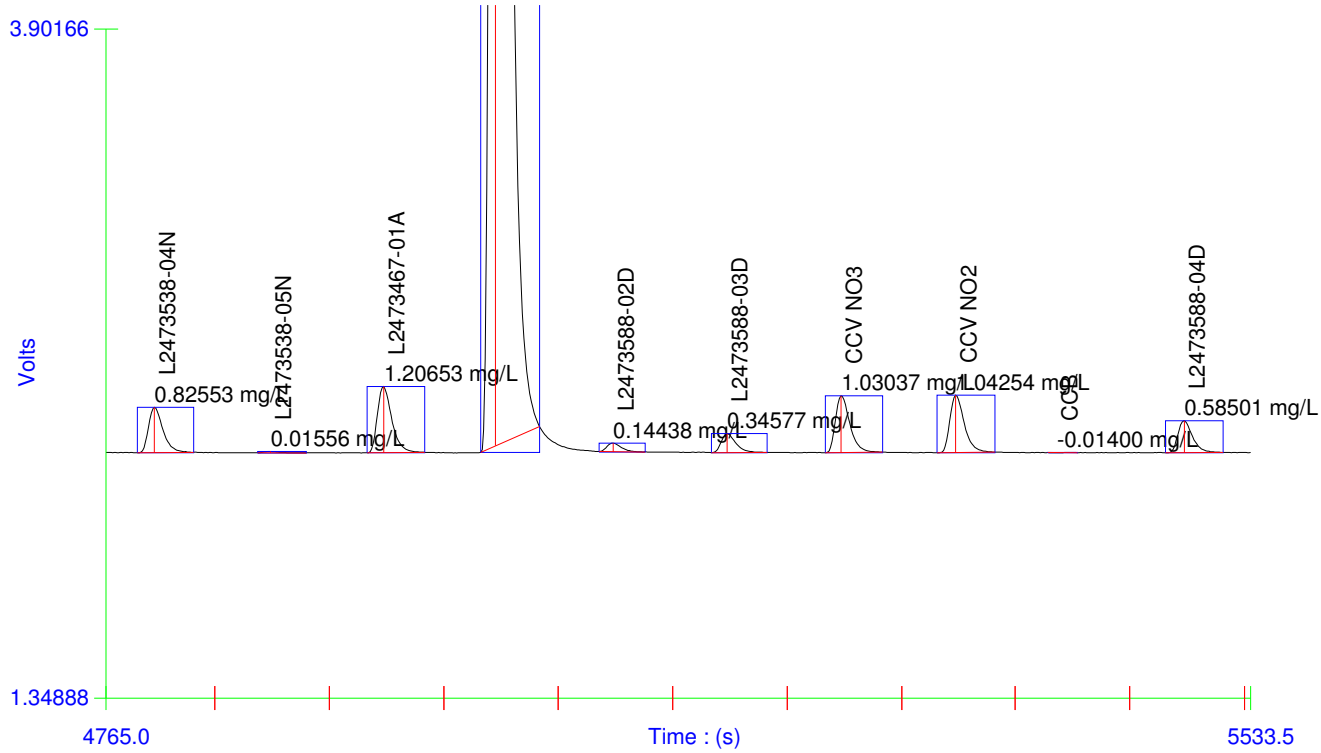
Channel 1 (NO3+NO2) - Set: 5 / 12



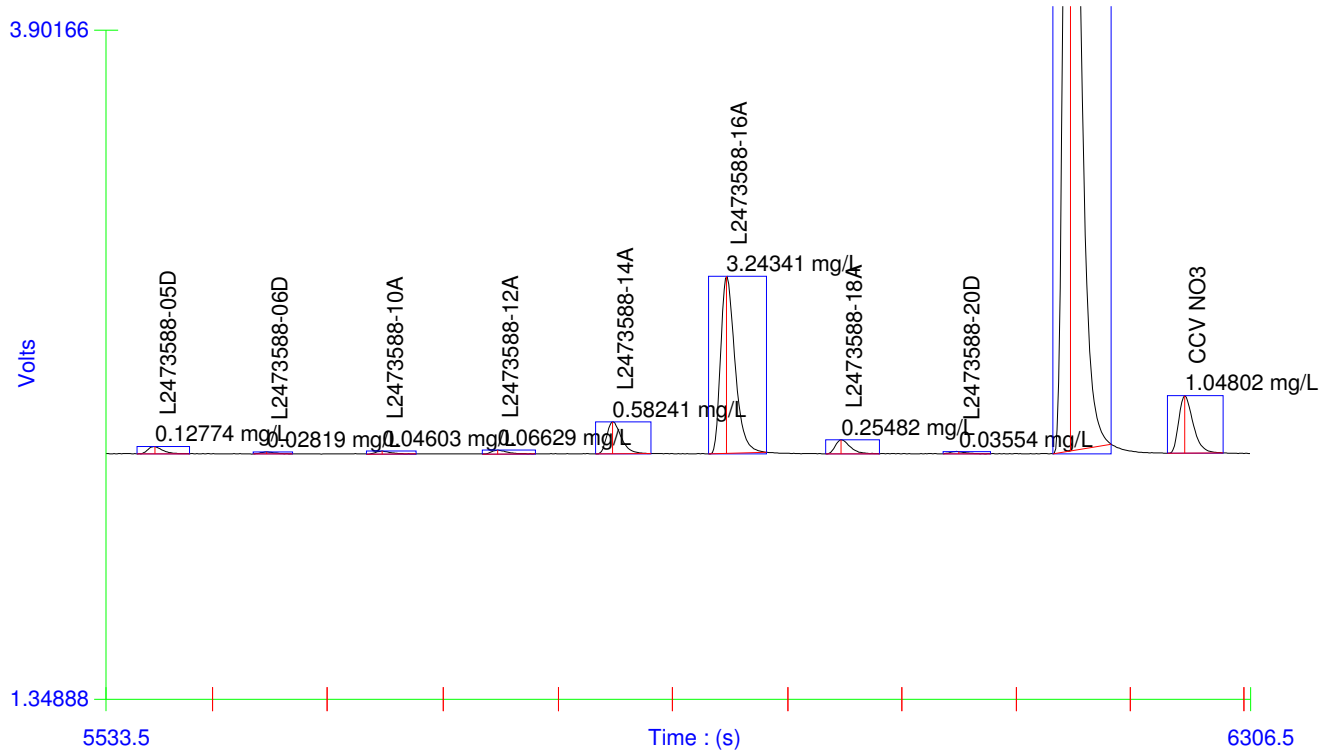
Channel 1 (NO3+NO2) - Set: 6 / 12



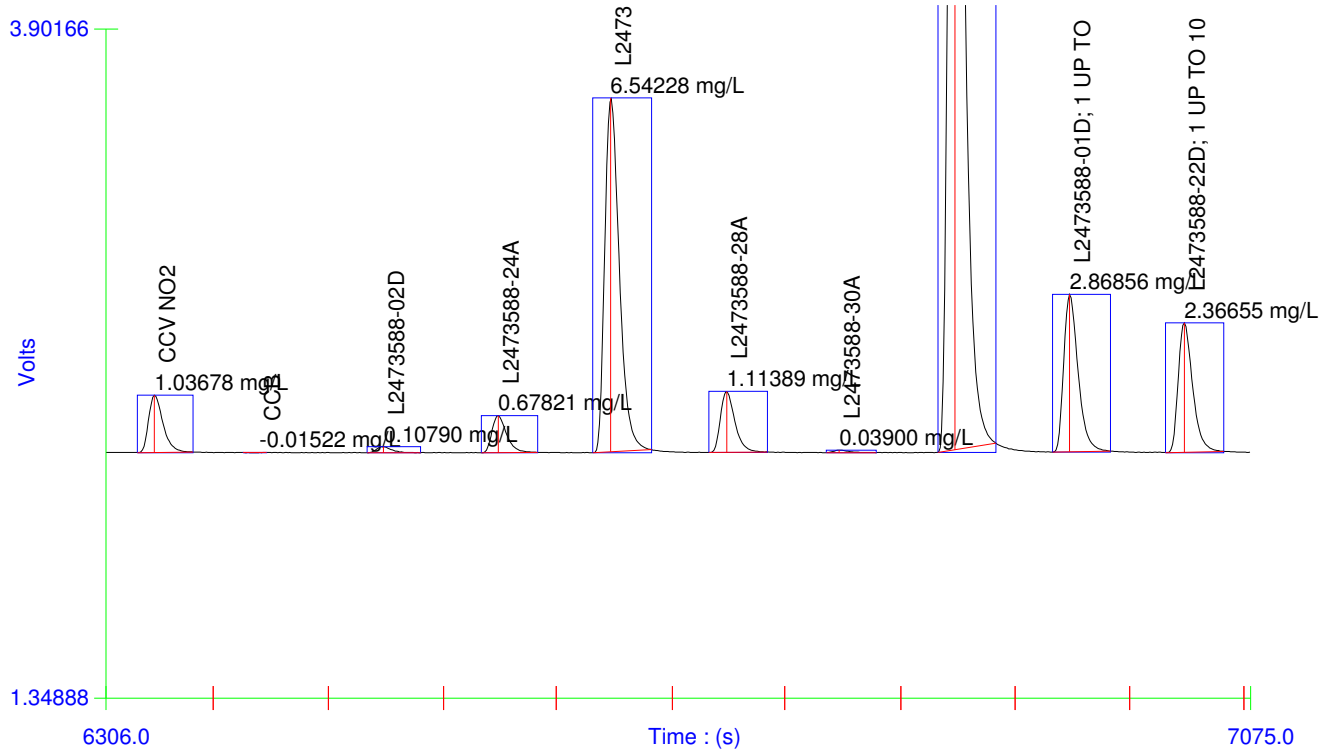
Channel 1 (NO3+NO2) - Set: 7 / 12



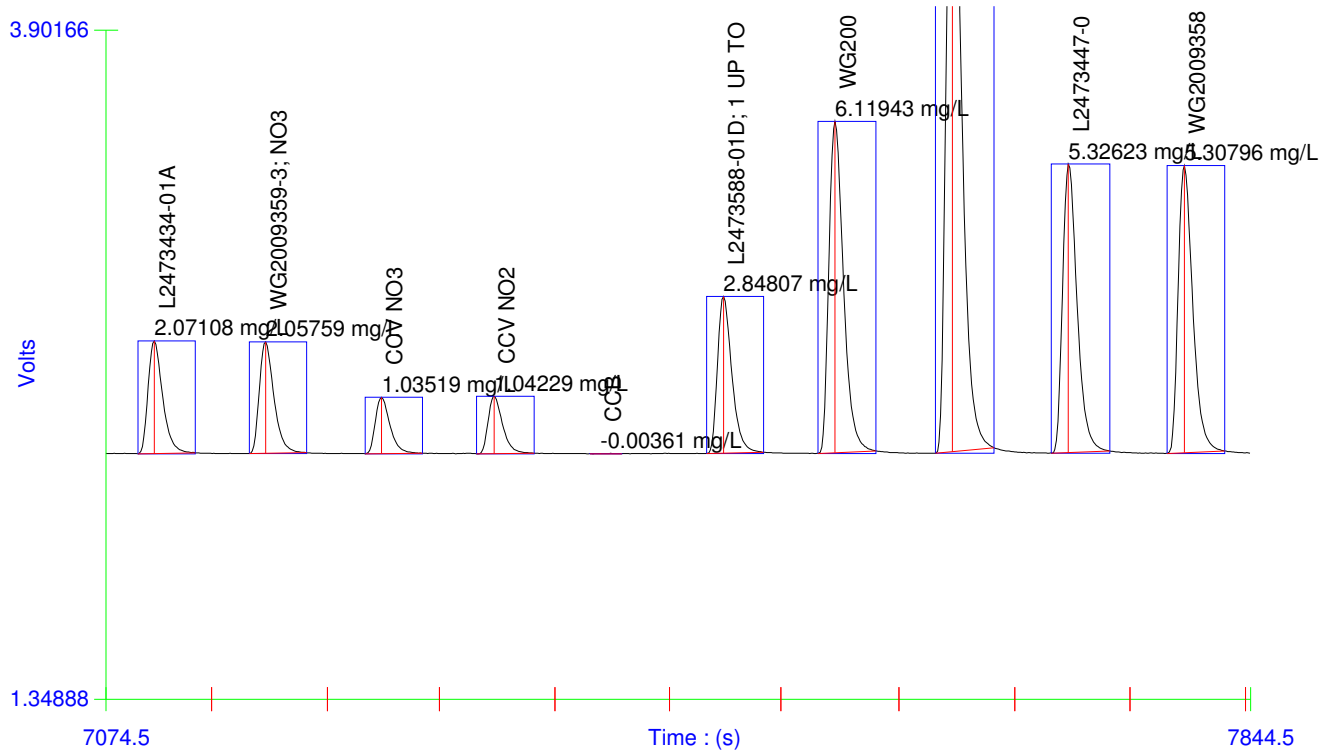
Channel 1 (NO3+NO2) - Set: 8 / 12



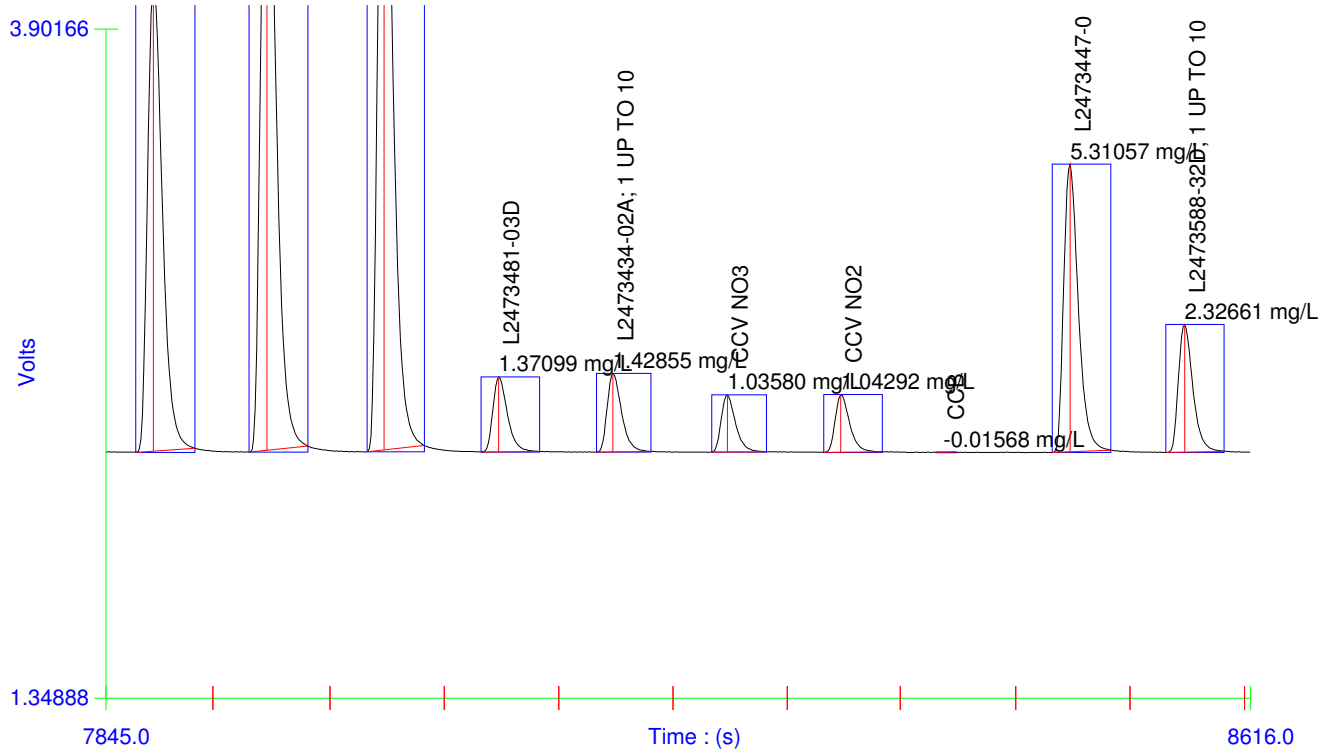
Channel 1 (NO3+NO2) - Set: 9 / 12



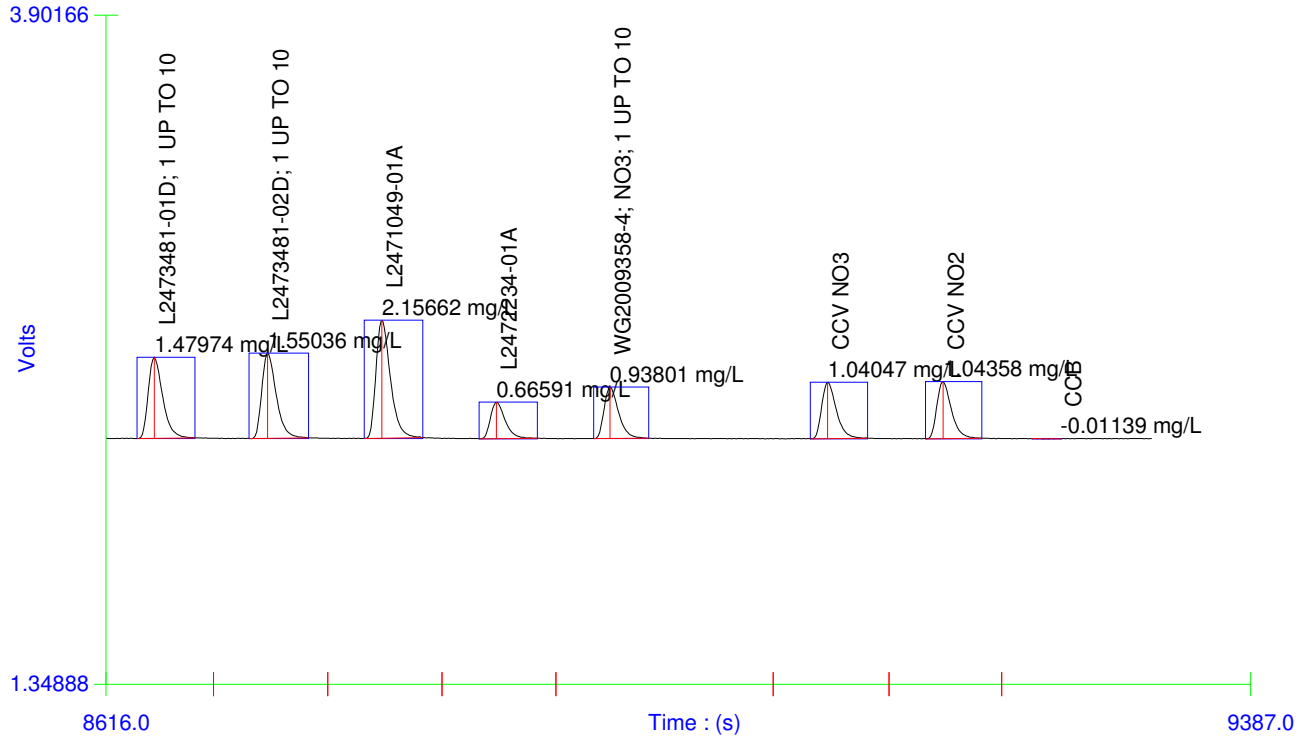
Channel 1 (NO3+NO2) - Set: 10 / 12



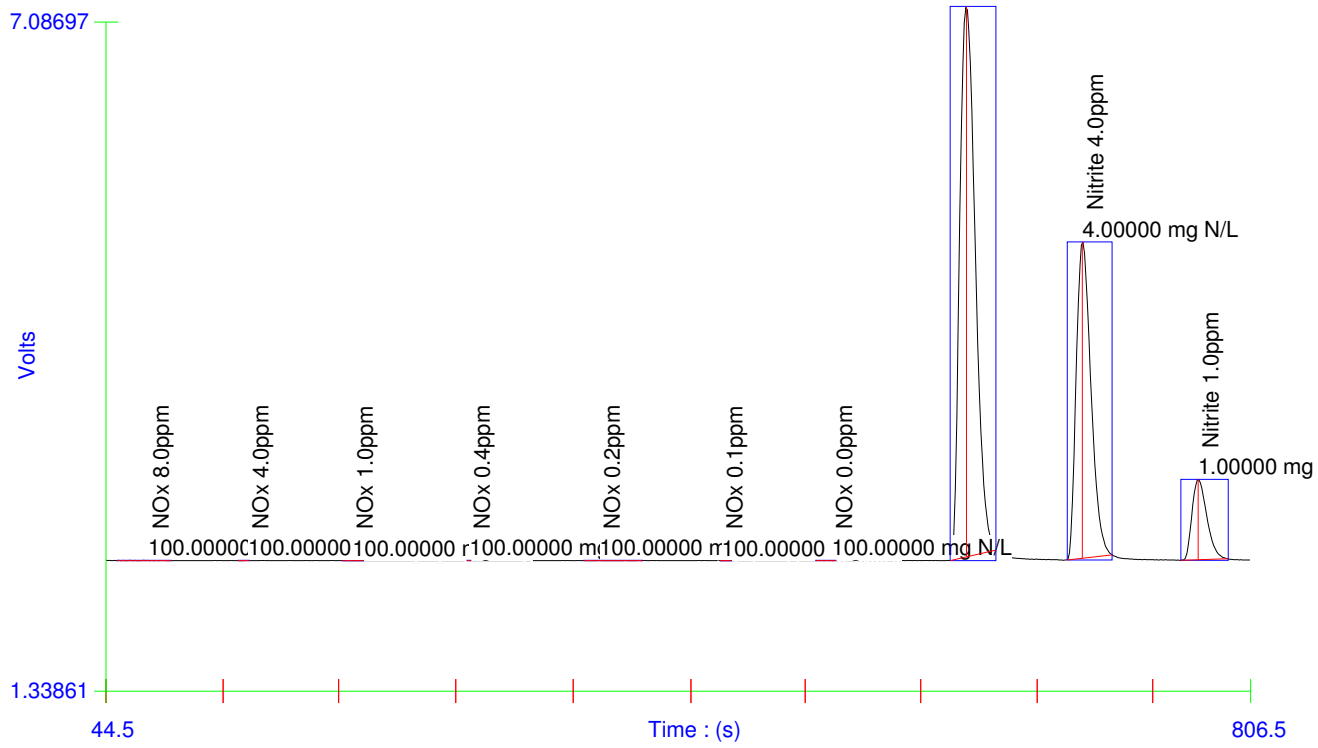
Channel 1 (NO3+NO2) - Set: 11 / 12



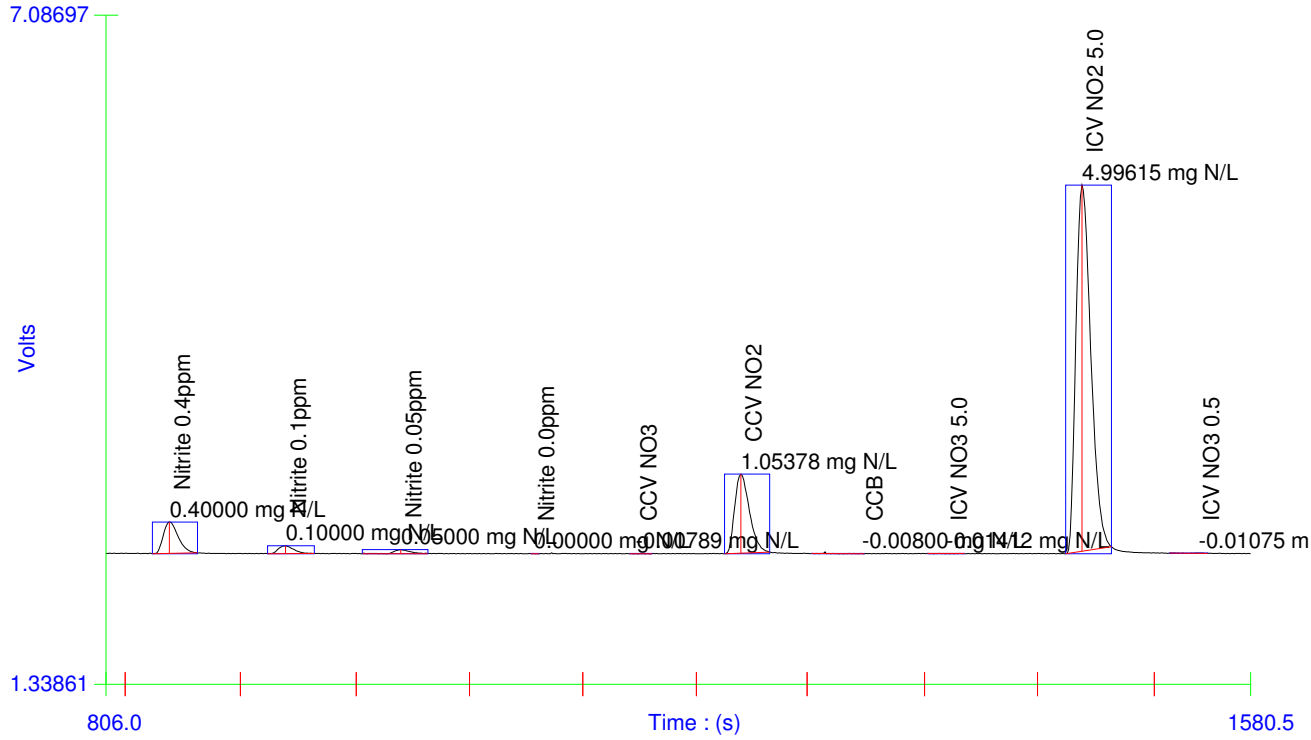
Channel 1 (NO3+NO2) - Set: 12 / 12



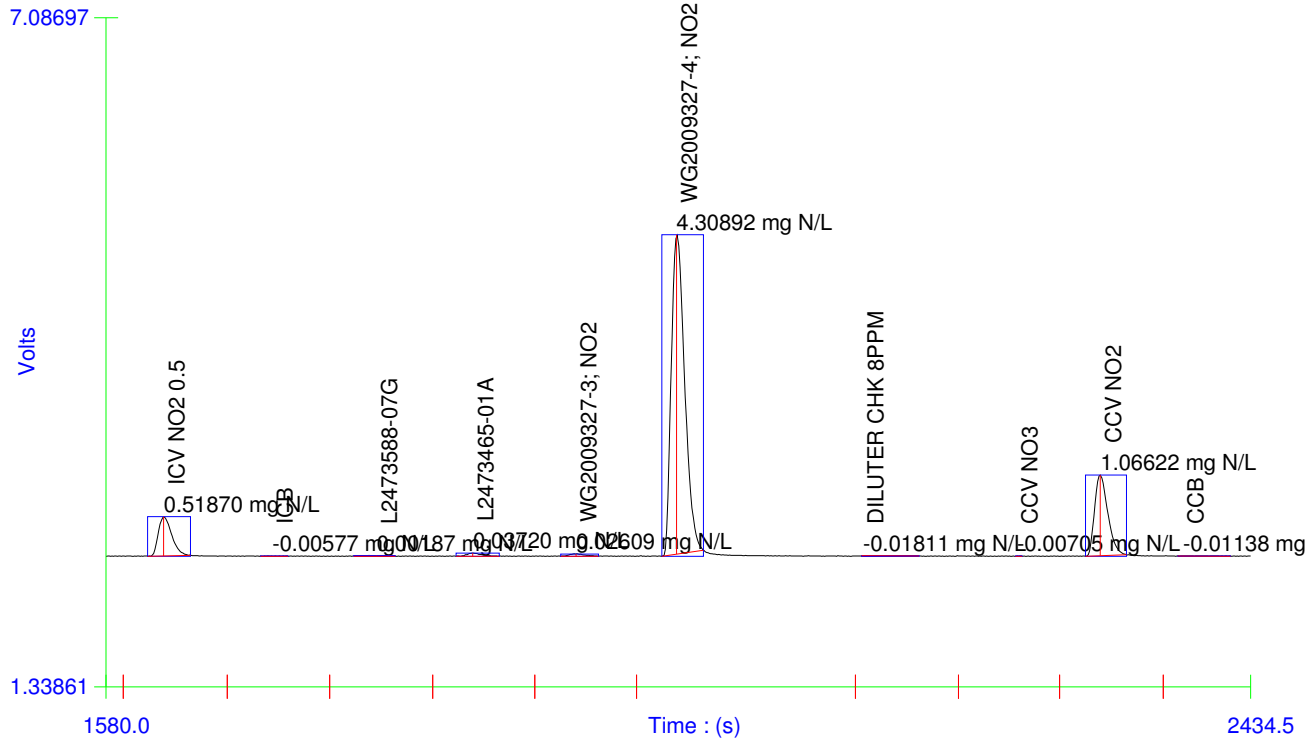
Channel 2 (NO2) - Set: 1 / 12



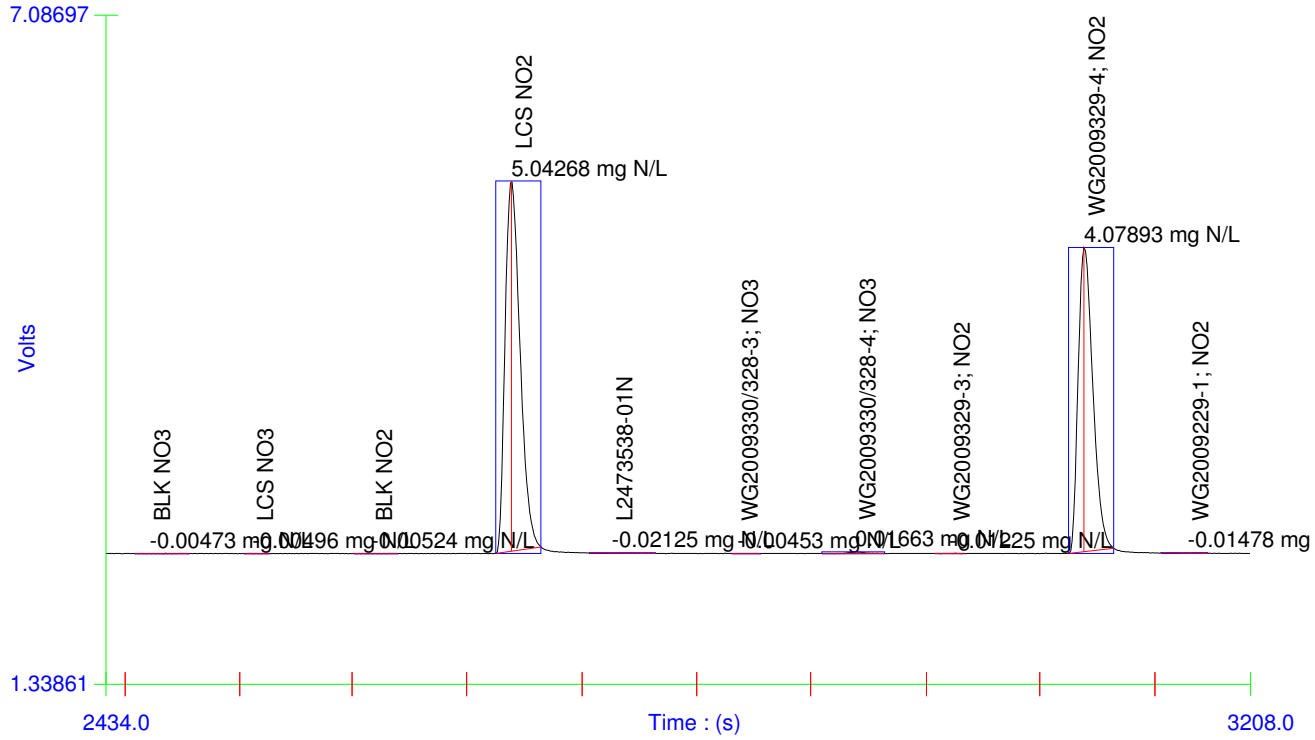
Channel 2 (NO2) - Set: 2 / 12



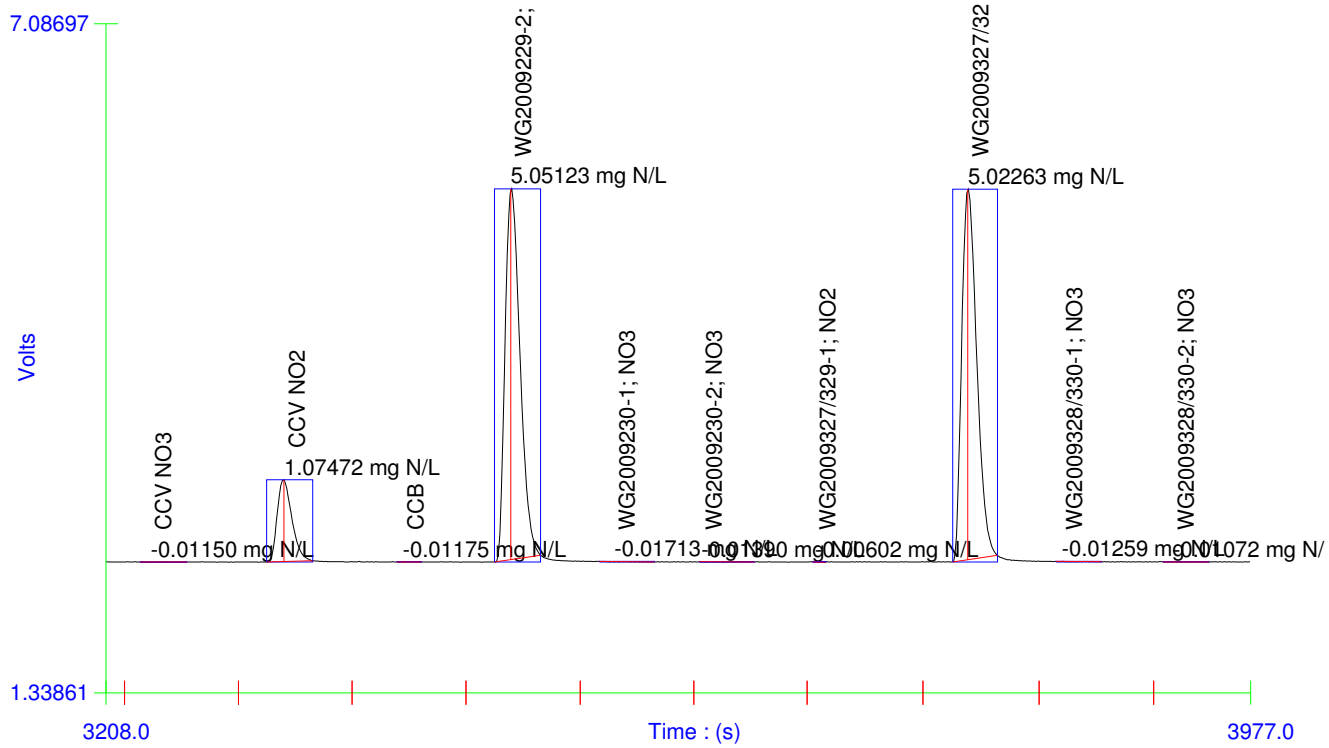
Channel 2 (NO2) - Set: 3 / 12



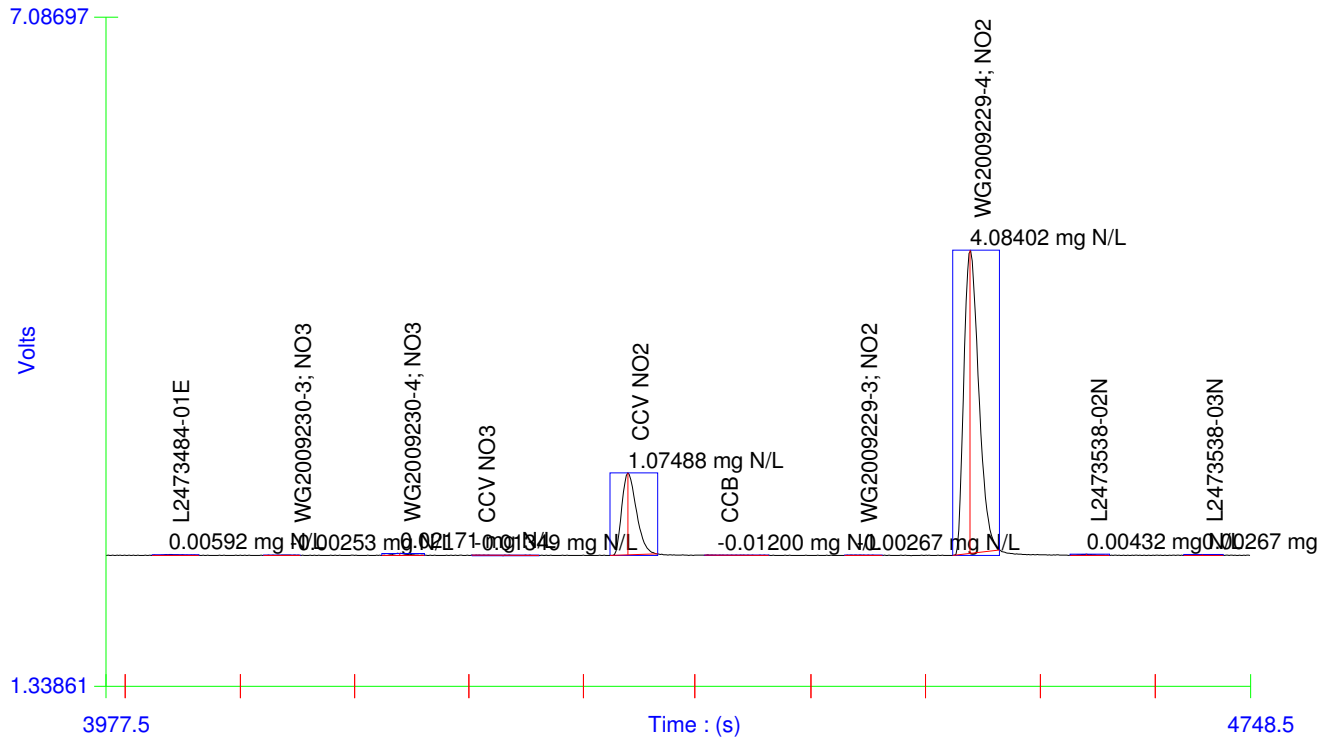
Channel 2 (NO2) - Set: 4 / 12



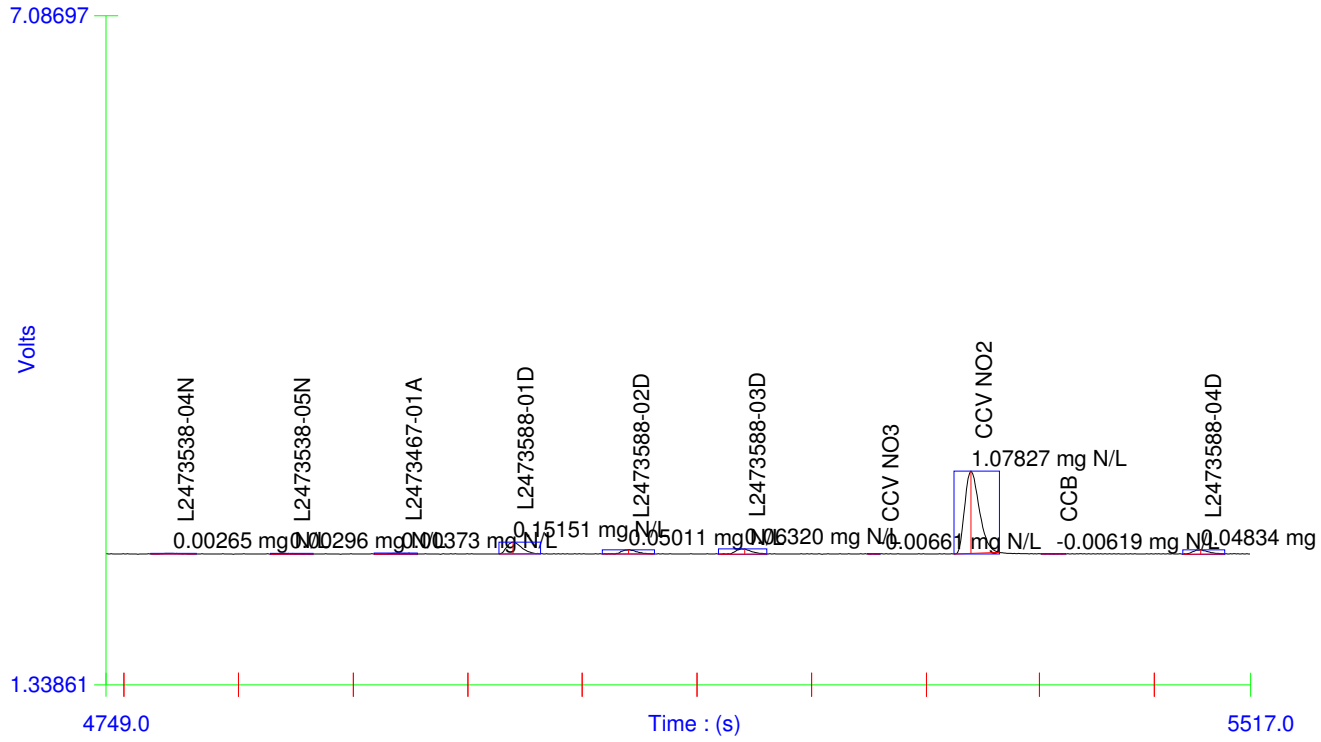
Channel 2 (NO2) - Set: 5 / 12



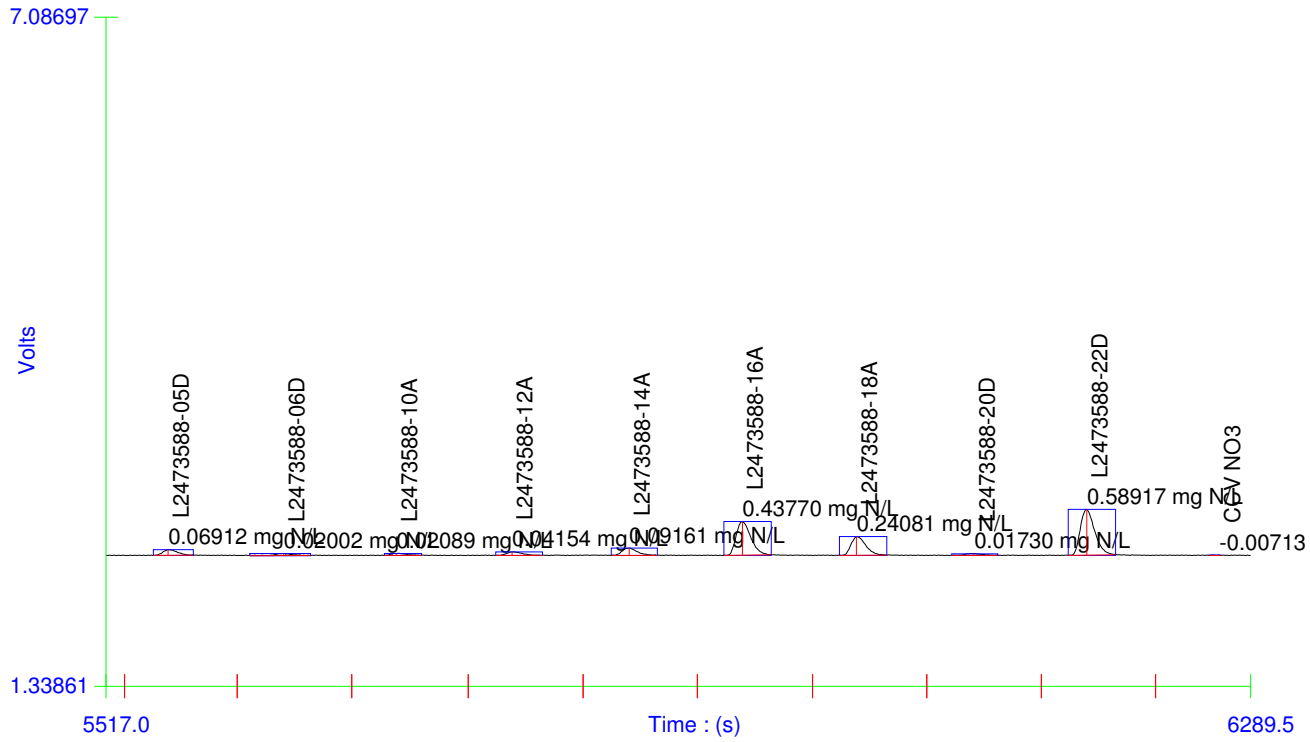
Channel 2 (NO2) - Set: 6 / 12



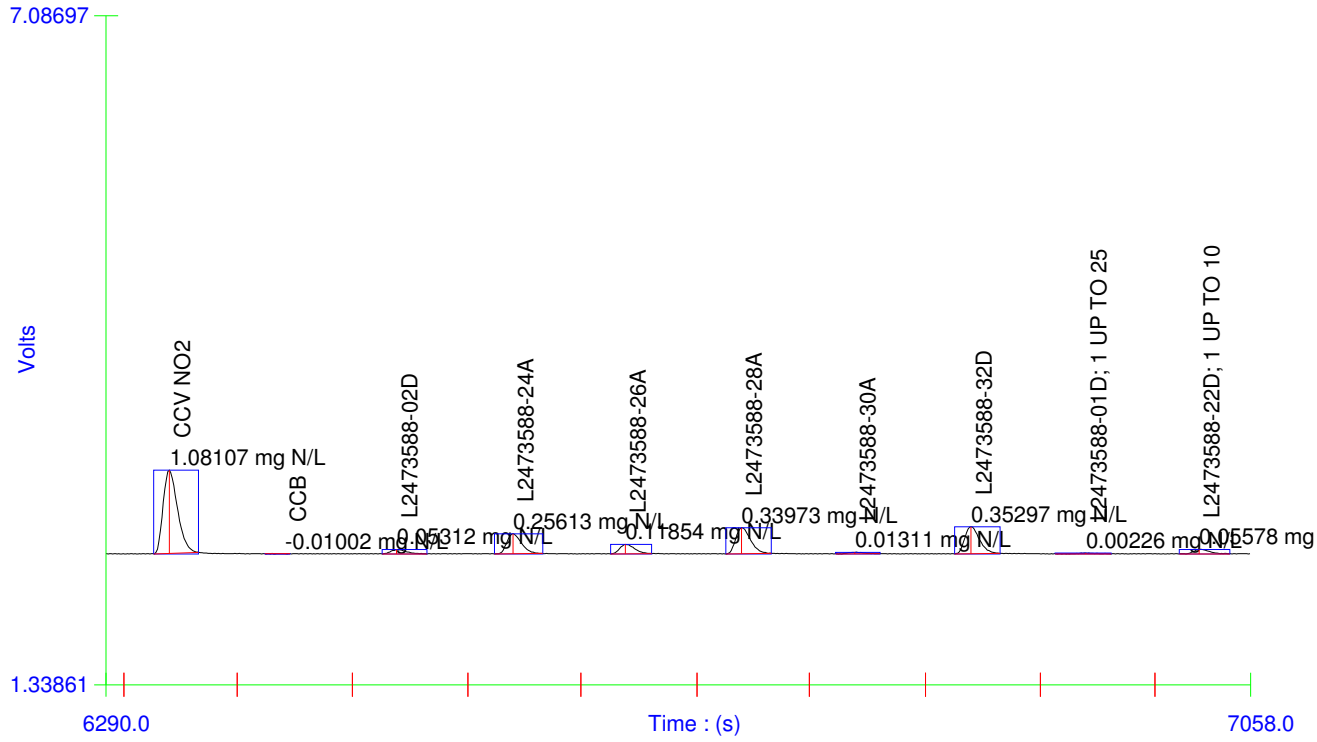
Channel 2 (NO2) - Set: 7 / 12



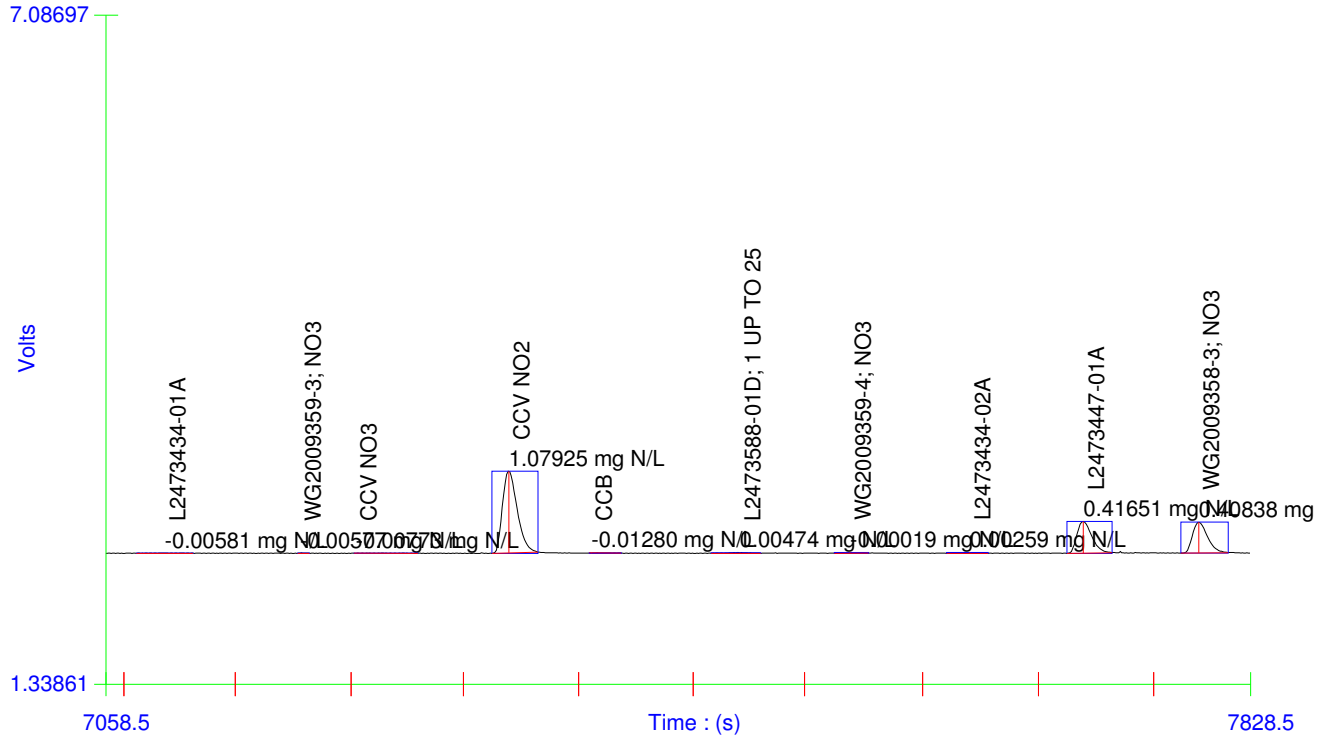
Channel 2 (NO2) - Set: 8 / 12



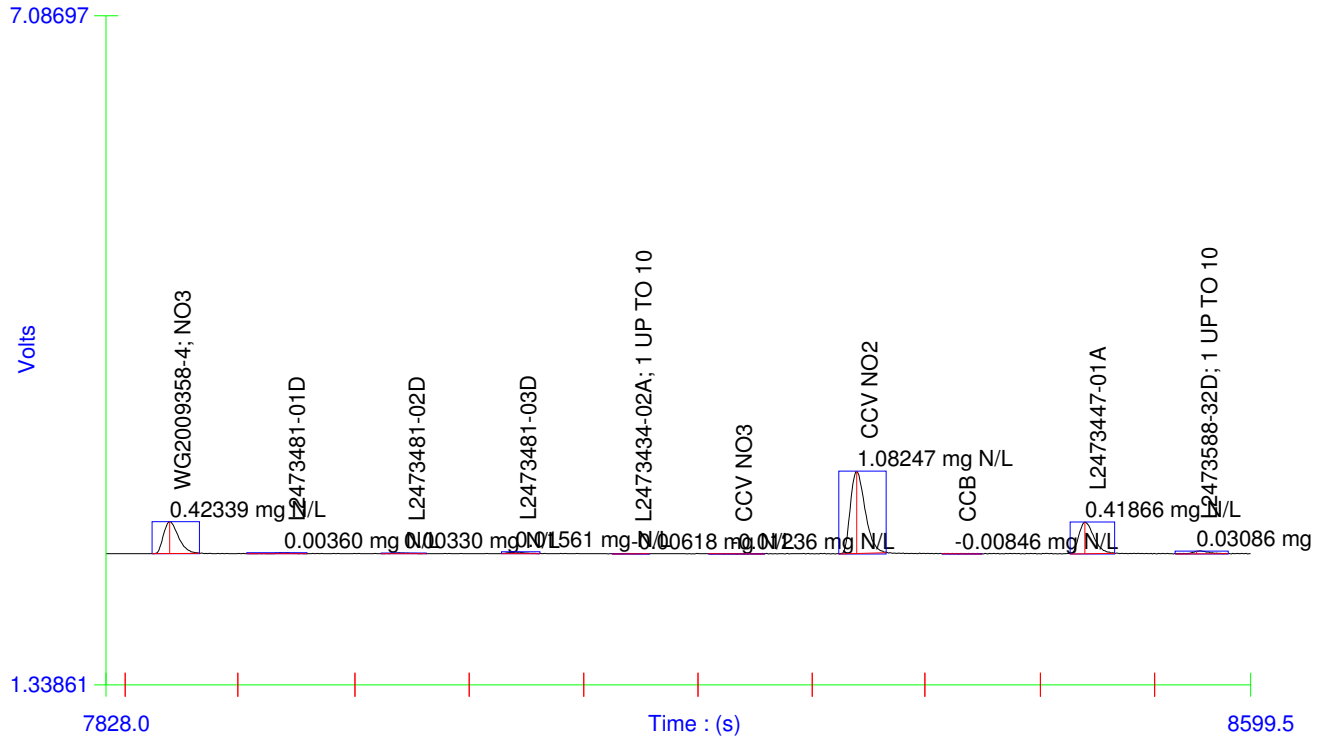
Channel 2 (NO2) - Set: 9 / 12



Channel 2 (NO2) - Set: 10 / 12



Channel 2 (NO2) - Set: 11 / 12



Channel 2 (NO2) - Set: 12 / 12

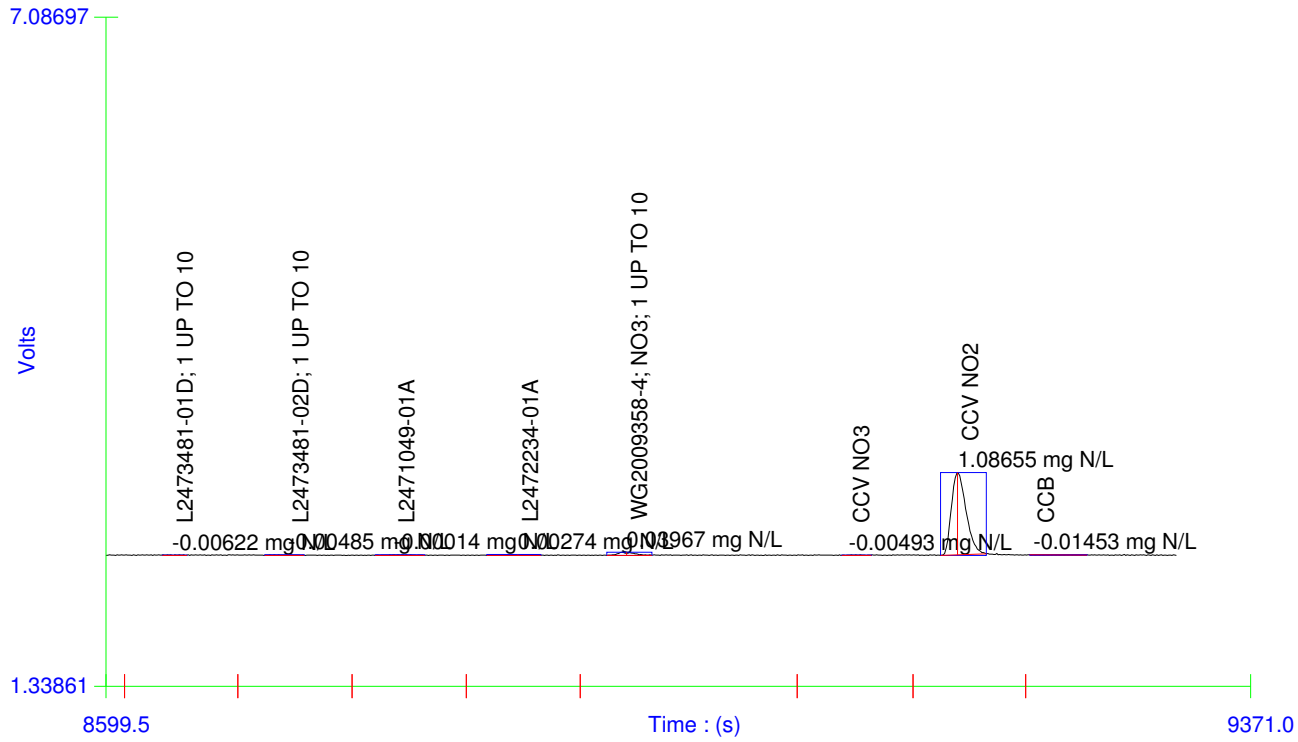


Table : 1 (NO3+NO2)

	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	18.50863	1.63229	0.0	1.1	7.91242	12/15/2024	7:18:04 AM
2	4.00000	1	9.51747	0.85257	0.0	-1.6	4.06353	12/15/2024	7:19:23 AM
3	1.00000	1	2.41897	0.21397	0.0	-2.5	1.02484	12/15/2024	7:20:40 AM
4	0.40000	1	0.96373	0.08406	0.0	-0.5	0.40189	12/15/2024	7:21:58 AM
5	0.20000	1	0.49260	0.04251	0.0	-0.1	0.20021	12/15/2024	7:23:16 AM
6	0.10000	1	0.24483	0.02087	0.0	5.3	0.09414	12/15/2024	7:24:35 AM
7	0.00000	1	0.03031	0.00198			0.00231	12/15/2024	7:25:51 AM

Figure : 1 (NO3+NO2)

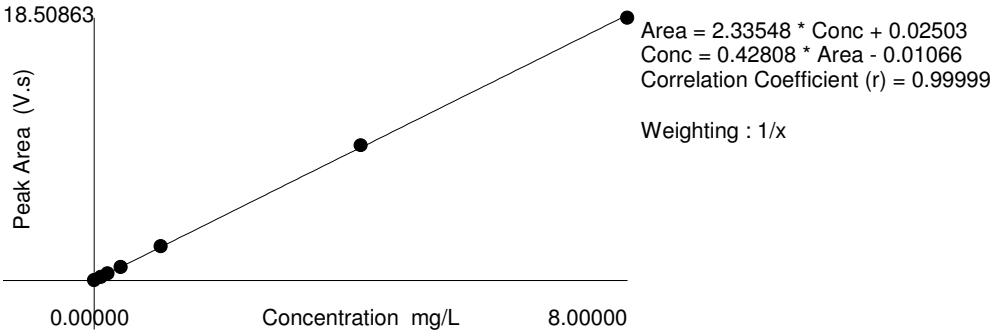
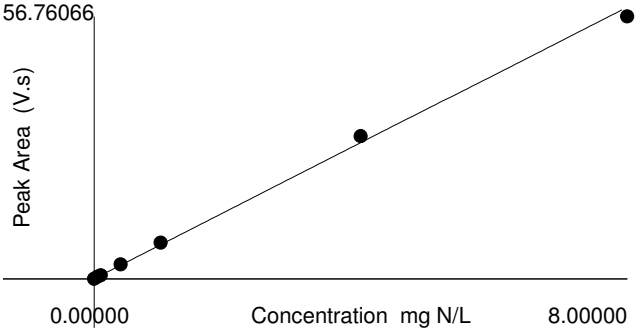


Table : 2 (Nitrite)

	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	56.76066	4.72635	0.0	3.4	7.70936	12/15/2024	7:27:08 AM
2	4.00000	1	30.87172	2.71695	0.0	-4.9	4.18951	12/15/2024	7:28:26 AM
3	1.00000	1	7.84687	0.69061	0.0	-6.0	1.05905	12/15/2024	7:29:43 AM
4	0.40000	1	3.11268	0.26960	0.0	-3.9	0.41539	12/15/2024	7:31:00 AM
5	0.10000	1	0.79936	0.06738	0.0	-0.8	0.10088	12/15/2024	7:32:19 AM
6	0.05000	1	0.43374	0.03559	0.0	-1.8	0.05117	12/15/2024	7:33:37 AM
7	0.00000	1	0.00567	0.00212			-0.00703	12/15/2024	7:34:54 AM

Figure : 2 (Nitrite)



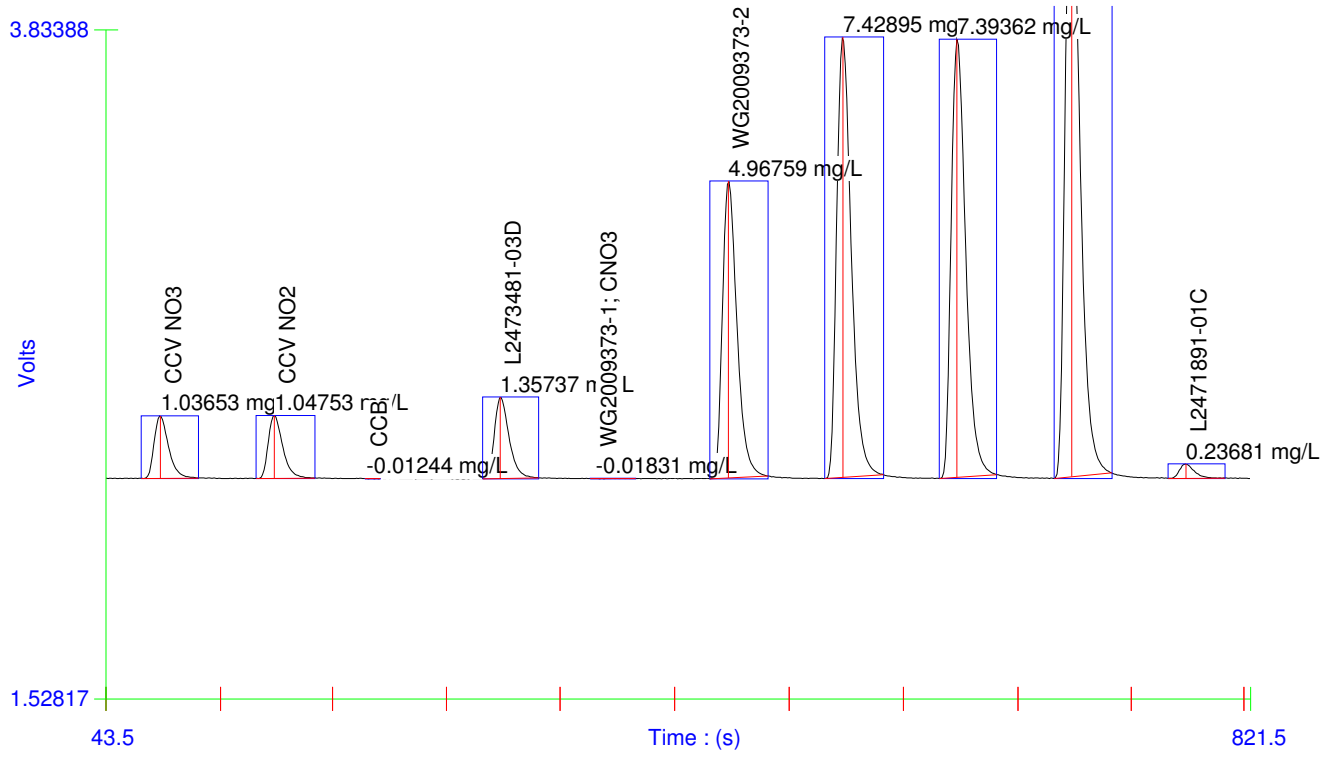
Area = 7.34105 * Conc + 0.05897
Conc = 0.13596 * Area - 0.00780
Correlation Coefficient (r) = 0.99994

Weighting : 1/x

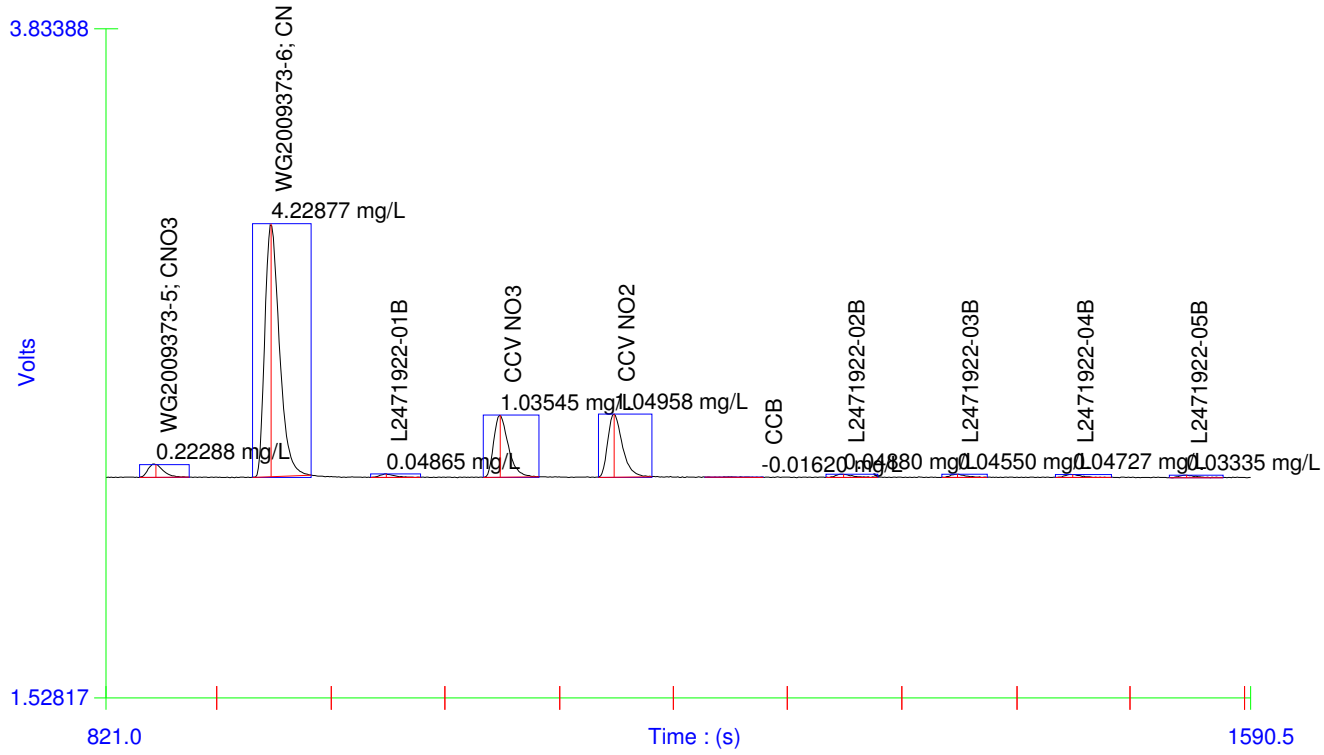
Original Run Filename: OM_12-15-2024_10-37-43AM.OMN Created: 12/15/2024 10:37:43 AM
Original Run Author's Signature: [A1wetcheminstrument]
Current Run Filename: OM_12-15-2024_10-37-43AM.OMN Last Modified: 12/15/2024 11:24:02 AM
Current Run Author's Signature: [A1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 NO3+NO2 (mg/L)	Channel 2 Nitrite (mg N/L)	ADF	MDF	Weight
CCV NO3	1	S2	1.03653	-0.00619			
	Known Conc:		1.00000	0.00000			
	Calibration:		Table/Fig. : 1	Table/Fig. : 2			
CCV NO2	1	S9	1.04753	1.07874			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01244	-0.00364			
	Known Conc:		0.00000	0.00000			
L2473481-03D	1	67	1.35737	0.01325			
WG2009373-1; CNO3	1	75	-0.01831	-0.00860			
WG2009373-2; CNO3	1	76	4.96759	-0.00606			
L2471826-02A	1	77	7.42895	0.00527			
WG2009373-3; CNO3	1	78	7.39362	0.00569			
WG2009373-4; CNO3	1	79	10.84358	0.00659			
L2471891-01C	1	80	0.23681	0.00090			
WG2009373-5; CNO3	1	81	0.22288	0.00530			
WG2009373-6; CNO3	1	82	4.22877	0.00386			
L2471922-01B	1	83	0.04865	0.00384			
CCV NO3	1	S2	1.03545	-0.00518			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.04958	1.08267			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01620	-0.00680			
	Known Conc:		0.00000	0.00000			
L2471922-02B	1	84	0.04880	0.00343			
L2471922-03B	1	85	0.04550	0.00280			
L2471922-04B	1	86	0.04727	0.00121			
L2471922-05B	1	87	0.03335	-0.00042			
L2471922-06B	1	88	0.03186	-0.01125			
L2471922-07B	1	89	0.03254	0.00257			
L2471922-08B	1	90	0.03470	0.00346			
L2471922-09B	1	91	0.03510	0.00267			
WG2009358-5; LOQ1 NO3	1	92	0.10399	-0.00741			
WG2009327-5; LOQ1 NO2	1	93	0.04584	0.05189			
CCV NO3	1	S2	1.04236	-0.00382			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.06368	1.08898			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.02298	-0.00895			
	Known Conc:		0.00000	0.00000			
WG2009373-4; CNO3; 1 UP TO 10	1	94	11.50514	-0.15251		10.00	
L2471891-01C	1	80	0.22627	0.00316			
CCV NO3	1	S2	1.04247	-0.00386			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.05339	1.08092			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01831	-0.00491			
	Known Conc:		0.00000	0.00000			

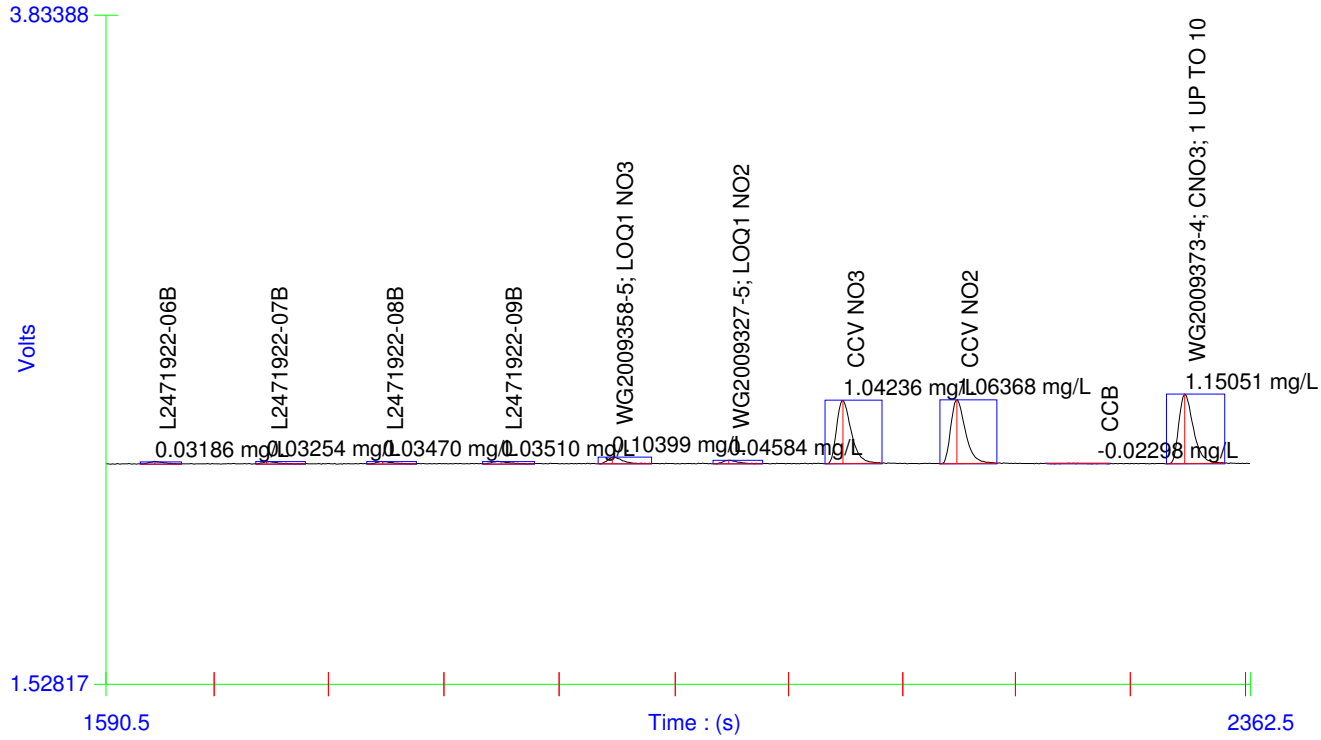
Channel 1 (NO3+NO2) - Set: 1 / 4



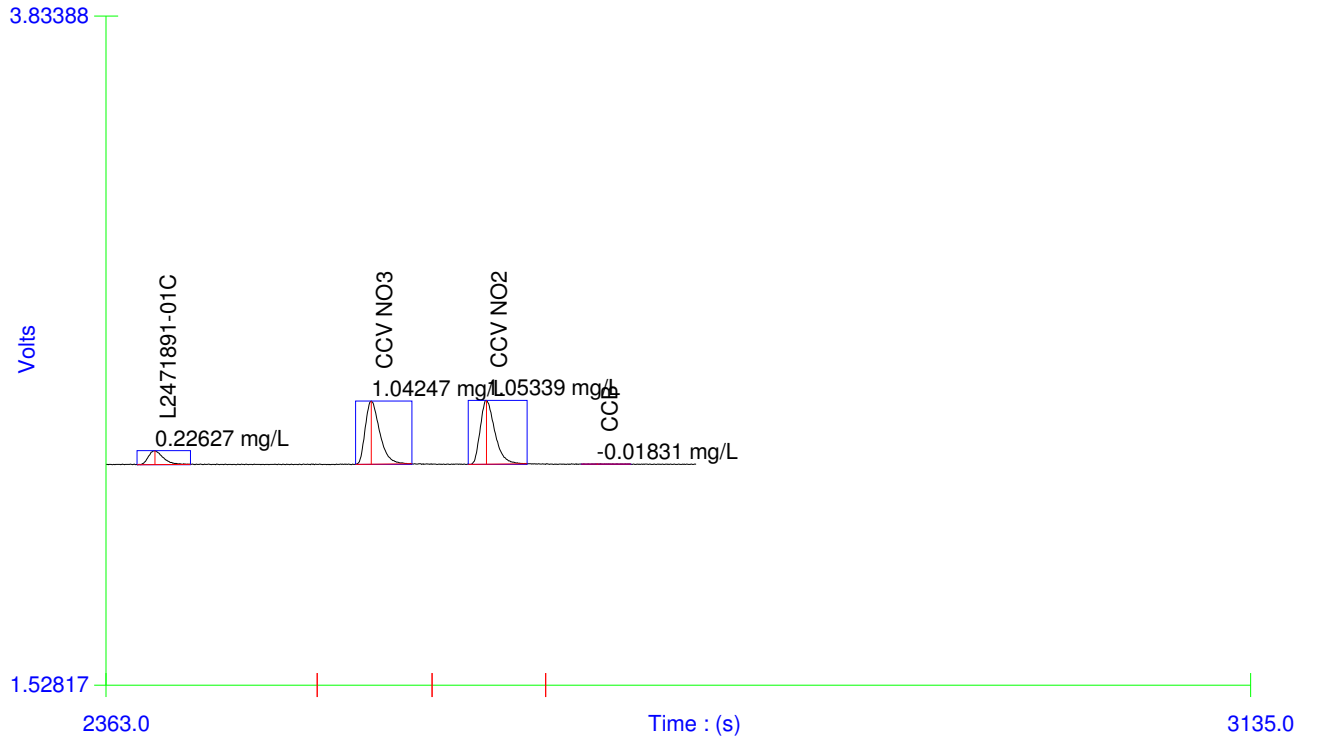
Channel 1 (NO3+NO2) - Set: 2 / 4



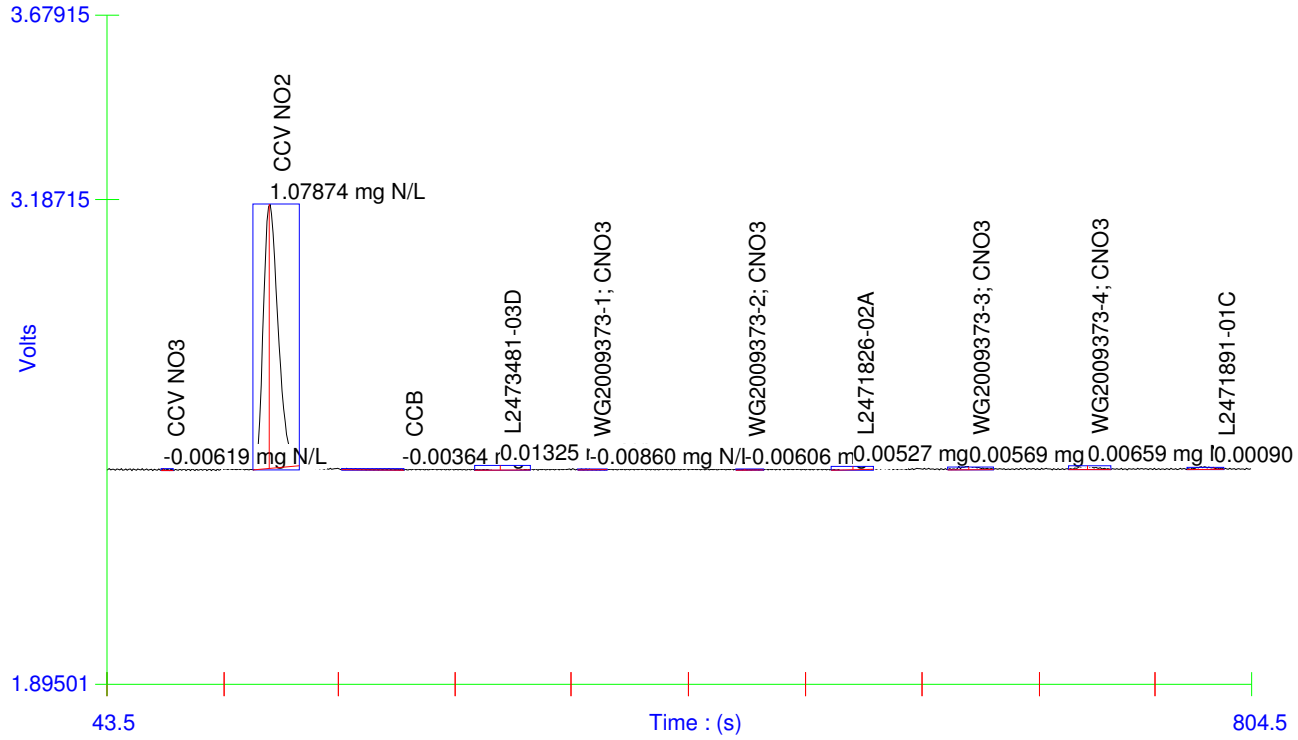
Channel 1 (NO3+NO2) - Set: 3 / 4



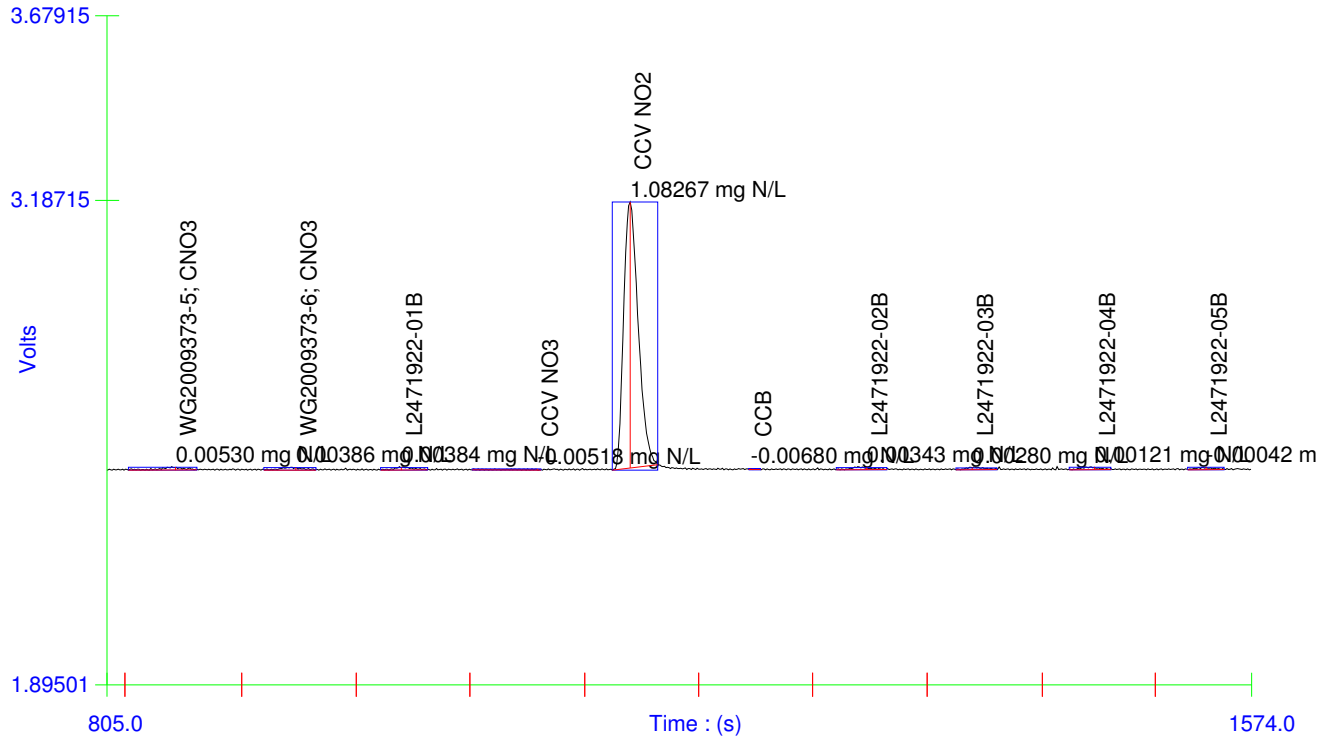
Channel 1 (NO3+NO2) - Set: 4 / 4



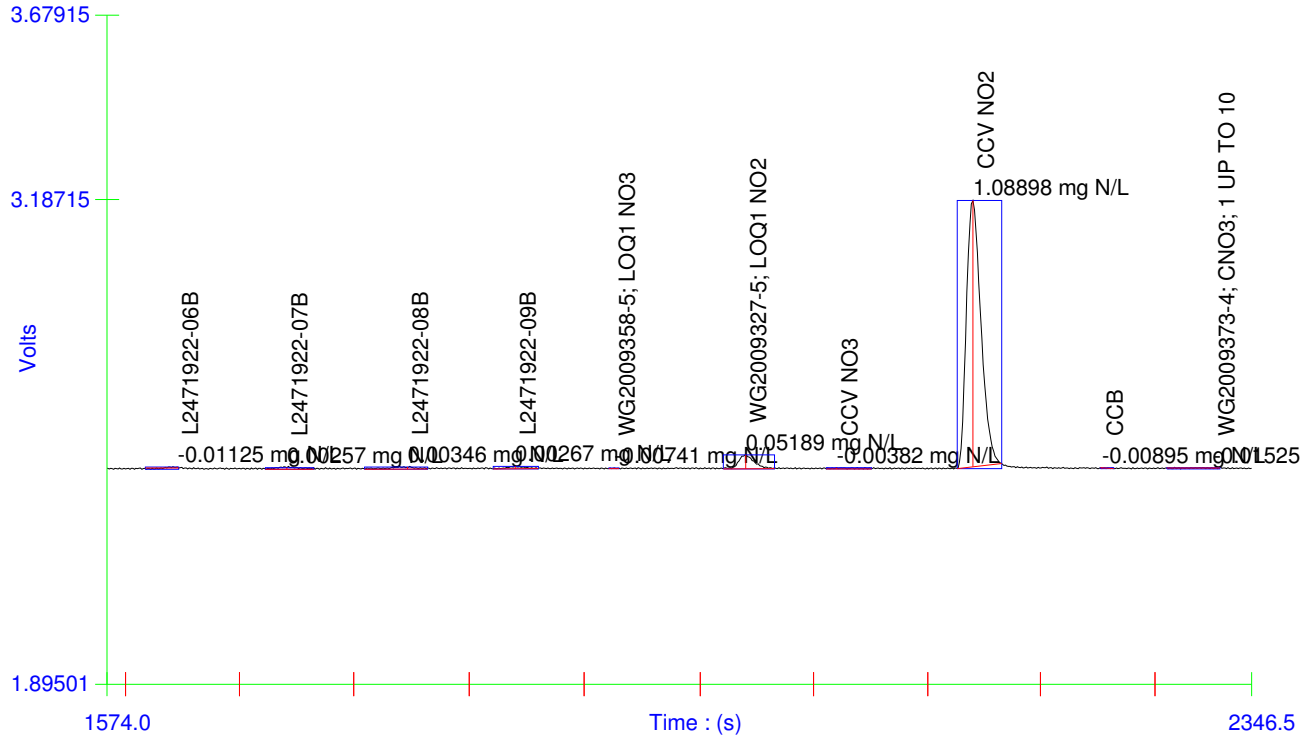
Channel 2 (NO2) - Set: 1 / 4



Channel 2 (NO2) - Set: 2 / 4



Channel 2 (NO2) - Set: 3 / 4



Channel 2 (NO2) - Set: 4 / 4

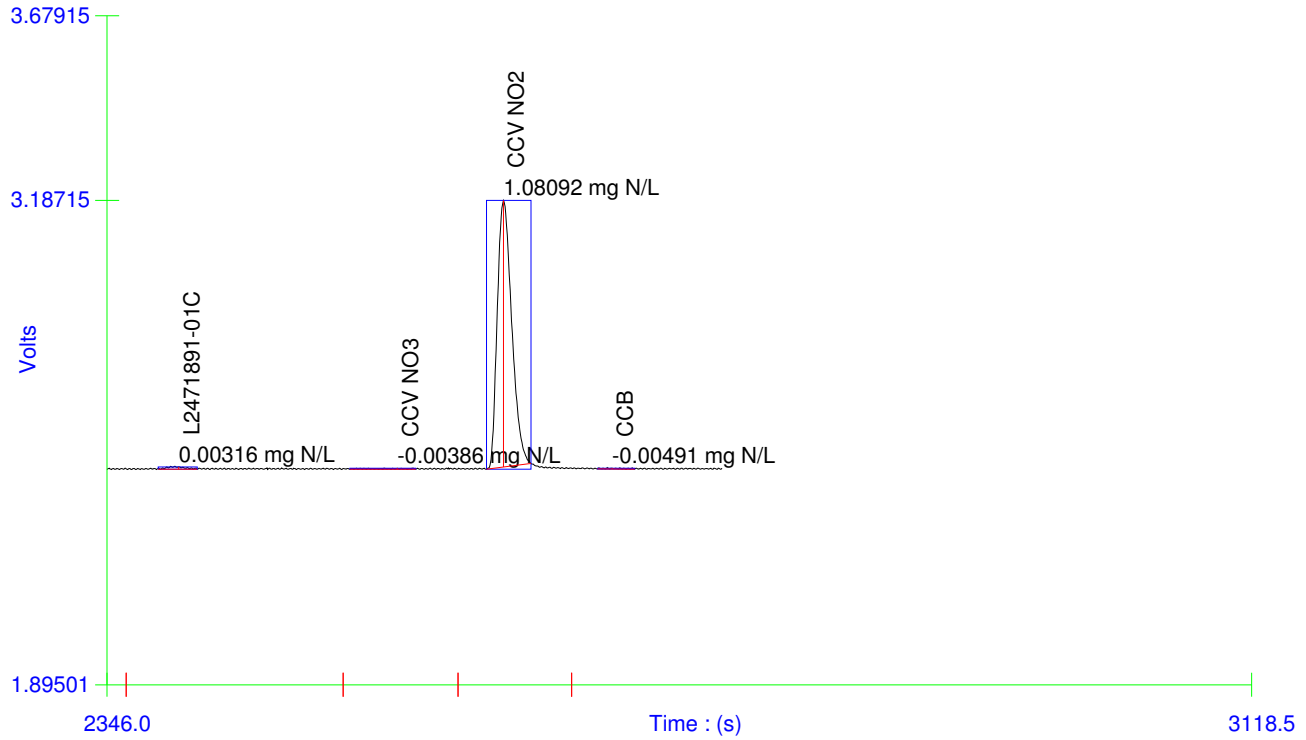
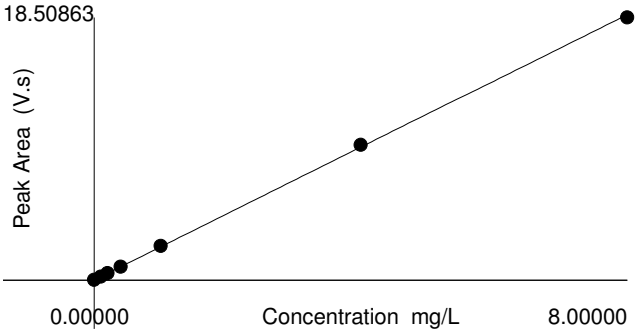


Table : 1 (NO3+NO2)

	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	18.50863	1.63229	0.0	1.1	7.91242	12/15/2024	7:18:04 AM
2	4.00000	1	9.51747	0.85257	0.0	-1.6	4.06353	12/15/2024	7:19:23 AM
3	1.00000	1	2.41897	0.21397	0.0	-2.5	1.02484	12/15/2024	7:20:40 AM
4	0.40000	1	0.96373	0.08406	0.0	-0.5	0.40189	12/15/2024	7:21:58 AM
5	0.20000	1	0.49260	0.04251	0.0	-0.1	0.20021	12/15/2024	7:23:16 AM
6	0.10000	1	0.24483	0.02087	0.0	5.3	0.09414	12/15/2024	7:24:35 AM
7	0.00000	1	0.03031	0.00198			0.00231	12/15/2024	7:25:51 AM

Figure : 1 (NO3+NO2)



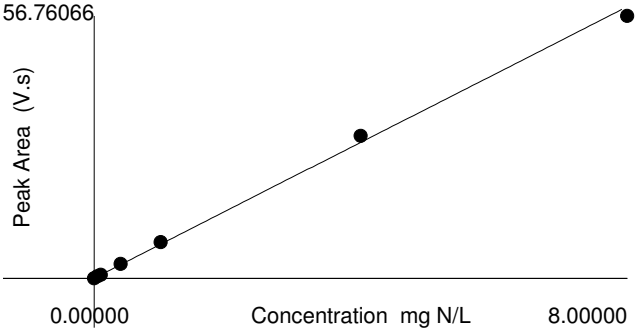
Area = 2.33548 * Conc + 0.02503
Conc = 0.42808 * Area - 0.01066
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

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	56.76066	4.72635	0.0	3.4	7.70936	12/15/2024	7:27:08 AM
2	4.00000	1	30.87172	2.71695	0.0	-4.9	4.18951	12/15/2024	7:28:26 AM
3	1.00000	1	7.84687	0.69061	0.0	-6.0	1.05905	12/15/2024	7:29:43 AM
4	0.40000	1	3.11268	0.26960	0.0	-3.9	0.41539	12/15/2024	7:31:00 AM
5	0.10000	1	0.79936	0.06738	0.0	-0.8	0.10088	12/15/2024	7:32:19 AM
6	0.05000	1	0.43374	0.03559	0.0	-1.8	0.05117	12/15/2024	7:33:37 AM
7	0.00000	1	0.00567	0.00212			-0.00703	12/15/2024	7:34:54 AM

Figure : 2 (Nitrite)



Area = 7.34105 * Conc + 0.05897
Conc = 0.13596 * Area - 0.00780
Correlation Coefficient (r) = 0.99994

Weighting : 1/x

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: PZ-5	**Matrix**	: WATER
Lab Sample ID	: L2473538-01		
Matrix Spike	: WG2009329-4	**MS Analysis Date**	: 12/15/24 08:08
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	4.08	102					80-120	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: PZ-5	**Matrix**	: WATER
Lab Sample ID	: L2473538-01		
Matrix Spike	: WG2009330-4	**MS Analysis Date**	: 12/15/24 08:05
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	**1.14**	**4**	**4.77**	**91**					**83-113**	**17**

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: PZ-5	**Matrix**	: WATER
Lab Sample ID	: L2473538-01		
Matrix Spike	: WG2009328-4	**MS Analysis Date**	: 12/15/24 08:05
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	**1.1**	**4**	**4.8**	**92**					**80-120**	**20**

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: PZ-5	**Matrix**	: WATER
Lab Sample ID	: L2473538-01	**Analysis Date**	: 12/15/24 08:03
Dup Sample ID	: WG2009329-3	**DUP Analysis Date**	: 12/15/24 08:07

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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: PZ-5	**Matrix**	: WATER
Lab Sample ID	: L2473538-01	**Analysis Date**	: 12/15/24 08:03
Dup Sample ID	: WG2009330-3	**DUP Analysis Date**	: 12/15/24 08:04

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Nitrate	1.14	1.13	1	17

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: PZ-5	**Matrix**	: WATER
Lab Sample ID	: L2473538-01	**Analysis Date**	: 12/15/24 08:03
Dup Sample ID	: WG2009328-3	**DUP Analysis Date**	: 12/15/24 08:04

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Nitrate/Nitrite	1.1	1.1	0	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2009329-2	**LCS Analysis Date**	: 12/15/24 08:20
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**	**5.02**	**100.**					**90-110**	**20**

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2009330-2	**LCS Analysis Date**	: 12/15/24 08:22
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Nitrogen, Nitrate	5.00	4.86	97.					90-110	17

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2009328-2	**LCS Analysis Date**	: 12/15/24 08:22
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Nitrogen, Nitrate/Nitrite	5.00	4.90	98.					90-110	20

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
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WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
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
121524	KAF	Filter Lot:	Filter Lot: 18048470A

Injection #	Rack #	Sample ID:	Comments:
	1	ICV NO3 5	*Buffer: NO3NO2_121524_BUFFER*
	2	ICV NO2 5	*Color: NO3NO2_121424_COLOR*
	3	ICV NO3 0.5	*NO3 MS: NO3_121224_200PPM_CAL*
	4	ICV NO2 0.5	*NO2 MS: NO2_111624_200PPM_CAL*
	5	ICB	*ICV NO3 5: NO3_121424_5PPM_ICV*
	6	5X DILUTER CHECK	*ICV NO2 5: NO2_121524_5PPM_ICV*
	7	BLANK NO3	*ICV NO3 0.5: NO3_121524_0.5PPM_ICV*
	8	LCS NO3	*ICV NO2 0.5: NO2_121524_0.5PPM_ICV*
	9	BLANK NO2	
	10	LCS NO2	*OOH*
	11	WG2009229-1; NO2	*DW*
	12	WG2009229-2; NO2	GOING OOH
	13	WG2009230-1; NO3	FIELD BLANK
	14	WG2009230-2; NO3	
	15	WG2009327/329-1; NO2	
	16	WG2009327/329-2; NO2	
	17	WG2009328/330-1; NO3/358/359	
	18	WG2009328/330-2; NO3/358/359	
	19	L2473484-01	
	20	WG2009230-3; NO3	
	21	WG2009230-4; NO3	
	22	WG2009229-3; NO2	
	23	WG2009229-4; NO2	
	24	L2473588-01	
	25	L2473588-02	
	26	L2473588-03	
	27	L2473588-04	
	28	L2473588-05	
	29	L2473588-06	
	30	~~L2473588-07~~	
	31	L2473588-10	
	32	L2473588-12	
	33	L2473588-14	
	34	L2473588-16	
	35	L2473588-18	
	36	L2473588-20	
	37	L2473588-22	
	38	L2473588-24	
	39	L2473588-26	
	40	L2473588-28	
	41	L2473588-30	
	42	L2473588-32	
	43	L2473465-01	

Injection #	Rack #	Sample ID:	Comments:
	44	WG2009327-3; NO2	
	45	WG2009327-4; NO2	
	46	L2473538-01	
	47	WG2009330/328-3; NO3	
	48	WG2009330/328-4; NO3	
	49	WG2009329-3; NO2	
	50	WG2009329-4; NO2	
	51	L2473538-02	
	52	L2473538-03	
	53	L2473538-04	
	54	L2473538-05	
	55	L2473467-01A	
	56	L2473588-01	25X
	57	L2473588-22	10X
	58	L2473434-01A	
	59	WG2009359-3; NO3	
	60	WG2009359-4; NO3	
	61	L2473434-02A	
	62	L2473447-01A	
	63	WG2009358-3; NO3	
	64	WG2009358-4; NO3	
	65	L2473481-01D	
	66	L2473481-02D	
	67	L2473481-03D	
	68	L2473588-32	10X
	69	L2473481-01D	10X
	70	L2473481-02D	10X
	71	L2471049-01A	
	72	L2473434-02A	10X
	73	L2472234-01A	
	74	WG2009358-4; NO3	10X
	75	WG2009373-1; CNO3	
	76	WG2009373-2; CNO3	
	77	L2471826-02	
	78	WG2009373-3; CNO3	
	79	WG2009373-4; CNO3	
	80	L2471891-01	
	81	WG2009373-5; CNO3	
	82	WG2009373-6; CNO3	
	83	L2471922-01	
	84	L2471922-02	
	85	L2471922-03	
	86	L2471922-04	
	87	L2471922-05	
	88	L2471922-06	

Injection #	Rack #	Sample ID:	Comments:
	89	L2471922-07	
	90	L2471922-08	
	91	L2471922-09	
	92	WG2009358-5; LOQ1 NO3	
	93	WG2009327-5; LOQ1 NO2	
	94	WG2009373-4; CNO3	10X

Total Dissolved Solids Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-01	**Date Collected**	:	12/13/24 08:20
Client ID	:	PZ-5	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 02:46
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG2011067.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**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-02	**Date Collected**	:	12/13/24 09:45
Client ID	:	MW-5D	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 02:46
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG2011067.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**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-03	**Date Collected**	:	12/13/24 11:20
Client ID	:	SCDOH-DR	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 02:46
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG2011067.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**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-04	**Date Collected**	:	12/13/24 12:43
Client ID	:	MW-10S	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 02:46
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG2011067.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	16.	13	4.0	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-05	**Date Collected**	:	12/13/24 12:30
Client ID	:	MW-10D	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 02:46
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG2011067.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	84.	13	4.0	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2011067-1	**Date Collected**	: NA
Client ID	: WG2011067-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/19/24 02:46
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG2011067.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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2011067-3	**Date Collected**	: 12/12/24 11:20
Client ID	: WG2011067-3 DUP	**Date Received**	: 12/12/24
Sample Location	:	**Date Analyzed**	: 12/19/24 02:46
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG2011067.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	75.	13	4.0	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2011067-4	**Date Collected**	: 12/12/24 10:50
Client ID	: WG2011067-4 DUP	**Date Received**	: 12/12/24
Sample Location	:	**Date Analyzed**	: 12/19/24 02:46
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG2011067.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	180	13	4.0	

Sample Raw Data

Wet Chemistry Gravimetric ELN

Printed: DEC-20-24 13:43:58

WorkGroup	WG2011067	**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**	19-DEC-24 23:16	**Time In**	20-DEC-24 08:58	**Time In**	20-DEC-24 12:02	**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	20-DEC-24 08:00	**Time Out**	20-DEC-24 11:05	**Time Out**	20-DEC-24 13:00	**Time Out**		**Time Out**					

Evaporation	**Temp In (C)**	**Time In**	**LCS Lot #**	**TrueValue**	**Units**
	90	19-DEC-24 11:25	121724A	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
L2472986-01	19-DEC-24 02:46	DEB WHELAN	B46	77340422	73.3356	80	73.341	73.3413				67.50	1.3	
L2472986-02	19-DEC-24 02:46	DEB WHELAN	BE	77340422	66.673	80	66.6875	66.6871				176.25	1.3	
L2472992-01	19-DEC-24 02:46	DEB WHELAN	AA2	77340422	64.1493	80	64.1603	64.1606				137.50	1.3	
L2472992-02	19-DEC-24 02:46	DEB WHELAN	W4	77340422	65.1675	80	65.1786	65.179				138.75	1.3	
L2473087-01	19-DEC-24 02:46	DEB WHELAN	EZ	77340422	66.5068	80	66.5203	66.5207				168.75	1.3	
L2473319-03	19-DEC-24 02:46	DEB WHELAN	FD	77340422	66.0838	50	66.1364	66.1367				1052.00	2	
L2473319-04	19-DEC-24 02:46	DEB WHELAN	EG	77340422	62.8875	50	62.9093	62.9091				432.00	2	
L2473494-01	19-DEC-24 02:46	DEB WHELAN	EX	77340422	66.3493	80	66.3595	66.3597				127.50	1.3	
L2473538-01	19-DEC-24 02:46	DEB WHELAN	FX	77340422	61.5325	80	61.5412	61.5416				108.75	1.3	T4
L2473538-02	19-DEC-24 02:46	DEB WHELAN	CD	77340422	69.129	80	69.1406	69.1405				143.75	1.3	
L2473538-03	19-DEC-24 02:46	DEB WHELAN	FL	77340422	64.2499	80	64.2595	64.2596				120.00	1.3	
L2473538-04	19-DEC-24 02:46	DEB WHELAN	CE	77340422	64.7321	80	64.7334	64.7338				16.25	1.3	
L2473538-05	19-DEC-24 02:46	DEB WHELAN	EU	77340422	63.7434	80	63.7502	63.7501				83.75	1.3	
L2473642-01	19-DEC-24 02:46	DEB WHELAN	EW	77340422	66.971	80	66.988	66.9876				207.50	1.3	
L2473876-01	19-DEC-24 02:46	DEB WHELAN	XO	77340422	64.4963	50	65.9509	65.9508				29090.00	2	
L2473912-01	19-DEC-24 02:46	DEB WHELAN	BZ	77340422	120.6485	80	120.7662	120.7617	120.762			1415.00	1.3	INF
L2473912-02	19-DEC-24 02:46	DEB WHELAN	BR	77340422	119.5363	80	119.6552	119.6509	119.651			1432.50	1.3	MID
L2473912-04	19-DEC-24 02:46	DEB WHELAN	BA2	77340422	110.5735	80	110.6878	110.6823	110.6833			1360.00	1.3	EFF
L2473927-01	19-DEC-24 02:46	DEB WHELAN	BQ	77340422	110.9548	80	110.9663	110.9659				138.75	1.3	
L2473927-02	19-DEC-24 02:46	DEB WHELAN	BL	77340422	108.0322	80	108.0453	108.0456				163.75	1.3	
WG2011067-1	19-DEC-24 02:46	DEB WHELAN	A	77340422	56.823	100	56.8227	56.8227				-3.00	1	T3
WG2011067-2	19-DEC-24 02:46	DEB WHELAN	F	77340422	59.1984	50	59.2252	59.225				532.00	2	
WG2011067-3	19-DEC-24 02:46	DEB WHELAN	CH	77340422	67.3171	80	67.3231	67.3232				75.00	1.3	

Wet Chemistry Gravimetric ELN

Printed: DEC-20-24 13:43:58

WorkGroup	WG2011067	**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**	19-DEC-24 23:16	**Time In**	20-DEC-24 08:58	**Time In**	20-DEC-24 12:02	**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	20-DEC-24 08:00	**Time Out**	20-DEC-24 11:05	**Time Out**	20-DEC-24 13:00	**Time Out**		**Time Out**					
		Temp In (C)	90	**Time In**	19-DEC-24 11:25							**LCS Lot #**	121724A	**TrueValue**	500	**Units**	mg/l

Sample #	Analysis Date	Analyst	Cup ID			Sample Volume (ml)					Result mg/L	Dil	Comment
WG2011067-4	19-DEC-24 02:46	DEB WHELAN	PG	77340422	61.7216	80	61.7359	61.736			178.75	1.3	

Quality Control

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 12/19/24 02:46
Dup Sample ID	: WG2011067-3	**DUP Analysis Date**	: 12/19/24 02:46

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	68	75.	10	10

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 12/19/24 02:46
Dup Sample ID	: WG2011067-4	**DUP Analysis Date**	: 12/19/24 02:46

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	180	180	0	10

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2011067-2	**LCS Analysis Date**	: 12/19/24 02:46
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 Dissolved	500.	530.	106.					80-120	10

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Created By: Jason Hebert
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WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-01	**Date Collected**	: 12/13/24 08:20
Client ID	: PZ-5	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 15:40
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG2011338.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/19/24

		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**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-02	**Date Collected**	:	12/13/24 09:45
Client ID	:	MW-5D	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 15:40
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG2011338.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	16.	10	1.4	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-03	**Date Collected**	:	12/13/24 11:20
Client ID	:	SCDOH-DR	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 15:40
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG2011338.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/19/24

		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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-04	**Date Collected**	: 12/13/24 12:43
Client ID	: MW-10S	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 15:40
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG2011338.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	2.3	10	1.4	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-05	**Date Collected**	:	12/13/24 12:30
Client ID	:	MW-10D	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 15:40
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG2011338.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	19.	10	1.4	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2011338-1	**Date Collected**	: NA
Client ID	: WG2011338-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/19/24 15:40
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG2011338.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/19/24

		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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2011338-3	**Date Collected**	: 12/13/24 08:20
Client ID	: PZ-5DUP	**Date Received**	: 12/13/24
Sample Location	:	**Date Analyzed**	: 12/19/24 15:40
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG2011338.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	14.	10	1.4	

Sample Raw Data

PACE ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

S U L F A T E

Last Change 3/5/13
File SO4-L.xlt
Curve/spike/ccv;wc3437
LCS;wc3373
Reagent;lot A4251
Pippette/s: 322, 424
Acrodisk: FJ5503
Syringe: 2125536

Sample Number: _____
Client: _____
Analysis: Sulfate, SO4
Method: SM 4500SO4-E
Instrument: SPEC6
Wavelength: 420 nm
Spike Volume(ml): 0.5
Spike Concentration (mg/l): 1000

Product: SO4-4500
Curve Calibration Date : 12/19/24
Curve Identifier: 12/19/2024
Analysis Analyte: Sulfate
Analysis Date: 12/19/2024 15:40
Preparation Date: 12/19/2024 15:40
Technician: MRW
Work group: WG2011338
RL: 10 mg/l
Cell: 2.5 cm

Standard ID	Mean signal (pk area) abs	Dilution	Calc-ed Result
0	0.000	1.0	1.38
10	0.147	1.0	8.60
20	0.366	1.0	19.4
40	0.800	1.0	40.7

Calibration Curve
Volume: 25 ml

Slope	y-intercept
0.020357	-0.028

Correlation Coefficient
0.997307

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	0.009	0.009	1.902	1	1.0	1.9	Recovery
	ICV	25	25	0	0.378	0.378	19.931	1	1.0	19.9	100%
SAMP	L2473420-01	10	25	0.068	0.527	0.459	23.888	1	2.5	59.7	
SAMP	L2473420-02	0.25	25	0.002	0.447	0.445	23.204	1	100.0	2320.4	
SAMP	L2473420-03	10	25	0.029	0.472	0.443	23.107	1	2.5	57.8	
SAMP	L2473420-04	0.1	25	0	0.79	0.790	40.060	1	250.0	10015.1	filtered
SAMP	L2473538-01	25	25	0.006	0.259	0.253	13.823	1	1.0	13.8	
SAMP	L2473538-02	25	25	0.073	0.364	0.291	15.680	1	1.0	15.7	
SAMP	L2473538-03	25	25	0.008	0.264	0.256	13.970	1	1.0	14.0	
SAMP	L2473538-04	25	25	0.007	0.025	0.018	2.342	1	1.0	2.3	
	CCV1	25	25	0	0.37	0.370	19.540	1	1.0	19.5	
	CCB1	25	25	0	0.009	0.009	1.902	1	1.0	1.9	
SAMP	L2473538-05	25	25	0.017	0.374	0.357	18.905	1	1.0	18.9	
	CCV2	25	25	0	0.365	0.365	19.296	1	1.0	19.3	
	CCB2	25	25	0	0.009	0.009	1.902	1	1.0	1.9	
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
BLANK	WG2011338-1	25	25	0.000	0.009	0.009	1.902	1	1.0	1.9	
DUP	WG2011338-3	25	25	0.003	0.268	0.265	14.410	1	1.0	14.4	L2473538-01

	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	WG2011338-4	12.5	25	0.003	0.523	0.520	13.800	12.5	40.0000	54	100
											L2473538-01
LCS	WG2011338-2	25	25	0	0.378	0.378		1	20.0000	20	100

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: PZ-5	**Matrix**	: WATER
Lab Sample ID	: L2473538-01		
Matrix Spike	: WG2011338-4	**MS Analysis Date**	: 12/19/24 15:40
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	14.	40	54.	100					55-147	14

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: PZ-5	**Matrix**	: WATER
Lab Sample ID	: L2473538-01	**Analysis Date**	: 12/19/24 15:40
Dup Sample ID	: WG2011338-3	**DUP Analysis Date**	: 12/19/24 15:40

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Sulfate	14.	14.	0	14

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2011338-2	**LCS Analysis Date**	: 12/19/24 15:40
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Sulfate	20.0	20.0	100.					90-110	14

Date Created: 11/11/21
Created By: Jason Hebert
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WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Sulfate	14808-79-8	10	1.37	mg/l	90-110		55-147	14	14	4500SO4-E	28 days	1 - Plastic 500ml unpreserved
Sulfate	14808-79-8	10	1.37	mg/l	90-110		55-147	14	14	9038	28 days	1 - Plastic 500ml unpreserved

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

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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-01	**Date Collected**	: 12/13/24 08:20
Client ID	: PZ-5	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 09:47
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 241219_CSV-1253.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	96.3	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-02	**Date Collected**	: 12/13/24 09:45
Client ID	: MW-5D	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 09:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 241219_CSV-1253.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	28.5	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-03	**Date Collected**	: 12/13/24 11:20
Client ID	: SCDOH-DR	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/19/24 09:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 241219_CSV-1253.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	22.7	2.00	NA	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-04	**Date Collected**	:	12/13/24 12:43
Client ID	:	MW-10S	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 09:57
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,2320B	**Analyst**	:	MKT
Lab File ID	:	241219_CSV-1253.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	17.7	2.00	NA	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-05	**Date Collected**	:	12/13/24 12:30
Client ID	:	MW-10D	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 09:58
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,2320B	**Analyst**	:	MKT
Lab File ID	:	241219_CSV-1253.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	41.8	2.00	NA	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	WG2011253-1	**Date Collected**	:	NA
Client ID	:	WG2011253-1BLANK	**Date Received**	:	NA
Sample Location	:		**Date Analyzed**	:	12/19/24 09:15
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,2320B	**Analyst**	:	MKT
Lab File ID	:	241219_CSV-1253.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**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	WG2011253-2	**Date Collected**	:	12/13/24 08:20
Client ID	:	PZ-5DUP	**Date Received**	:	12/13/24
Sample Location	:		**Date Analyzed**	:	12/19/24 09:50
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,2320B	**Analyst**	:	MKT
Lab File ID	:	241219_CSV-1253.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	98.6	2.00	NA	
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U

Sample Raw Data

Results Editor

LabX

Result Overview

Sample start t	Zero poin	Unit of Ze	Data marl	Slope 1 (C	Unit of Sl	Data marl	Sensor ty	List of sta	Standard	Comment	Temperat
	6.927	pH		-57.68	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
--	7.00	pH		12/19/2024	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	7.10 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.917 mL	OK
		Consumption 4.2 R3	0.921 mL	OK
		Content R5	18.340 mg/L	OK
		ALK LOW R6	18.260 mg/L	OK
2	Rinse,MKT	Sample size	50 mL	
		Potential R4	4.73 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.024 mL	OK
		Consumption 4.2 R3	0.029 mL	OK
		Content R5	0.480 mg/L	OK
		ALK LOW R6	0.380 mg/L	OK
3	WG2011253-1	Sample size	50 mL	
		Potential R4	4.67 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.012 mL	OK
		Consumption 4.2 R3	0.019 mL	OK
		Content R5	0.240 mg/L	OK
		ALK LOW R6	0.100 mg/L	OK
4	xLCS	Sample size	50 mL	
		Potential R4	10.73 pH	OK
		Consumption 8.3 R1	4.629 mL	OK
		Consumption 4.5 R2	5.033 mL	OK
		Consumption 4.2 R3	5.038 mL	OK
		Content R5	100.660 mg/L	OK
		ALK LOW R6	100.560 mg/L	OK
5	I2473420-01	Sample size	50 mL	
		Potential R4	6.26 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
6	I2473420-02	Sample size	50 mL	

Titration report

		Potential R4	6.43 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
7	I2473420-03	Sample size	50 mL	
		Potential R4	6.82 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	16.663 mL	OK
		Consumption 4.2 R3	16.809 mL	OK
		Content R5	333.260 mg/L	OK
		ALK LOW R6	330.340 mg/L	OK
8	I2473538-01	Sample size	50 mL	
		Potential R4	5.68 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.815 mL	OK
		Consumption 4.2 R3	4.879 mL	OK
		Content R5	96.300 mg/L	OK
		ALK LOW R6	95.020 mg/L	OK
9	WG2011253-2	Sample size	50 mL	
		Potential R4	5.65 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.928 mL	OK
		Consumption 4.2 R3	5.008 mL	OK
		Content R5	98.560 mg/L	OK
		ALK LOW R6	96.960 mg/L	OK
10	L2473538-02	Sample size	50 mL	
		Potential R4	5.34 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.425 mL	OK
		Consumption 4.2 R3	1.449 mL	OK
		Content R5	28.500 mg/L	OK
		ALK LOW R6	28.020 mg/L	OK
11	L2473538-03	Sample size	50 mL	
		Potential R4	5.28 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.135 mL	OK
		Consumption 4.2 R3	1.158 mL	OK
		Content R5	22.700 mg/L	OK
		ALK LOW R6	22.240 mg/L	OK
12	L2473538-04	Sample size	50 mL	
		Potential R4	5.13 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.927 mL	OK
		Consumption 4.2 R3	0.971 mL	OK
		Content R5	18.540 mg/L	OK

Titration report

LabX

13	L2473538-05	ALK LOW R6	17.660 mg/L	OK
		Sample size	50 mL	
		Potential R4	5.50 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.089 mL	OK
		Consumption 4.2 R3	2.102 mL	OK
		Content R5	41.780 mg/L	OK
		ALK LOW R6	41.520 mg/L	OK
14	L2474329-01	Sample size	50 mL	
		Potential R4	5.26 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.437 mL	OK
		Consumption 4.2 R3	1.474 mL	OK
		Content R5	28.740 mg/L	OK
		ALK LOW R6	28.000 mg/L	OK
15	L2474329-02	Sample size	50 mL	
		Potential R4	5.27 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.288 mL	OK
		Consumption 4.2 R3	1.310 mL	OK
		Content R5	25.760 mg/L	OK
		ALK LOW R6	25.320 mg/L	OK
16	L2474329-03	Sample size	50 mL	
		Potential R4	5.14 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.888 mL	OK
		Consumption 4.2 R3	0.930 mL	OK
		Content R5	17.760 mg/L	OK
		ALK LOW R6	16.920 mg/L	OK
17	L2474329-04	Sample size	50 mL	
		Potential R4	5.26 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.334 mL	OK
		Consumption 4.2 R3	1.375 mL	OK
		Content R5	26.680 mg/L	OK
		ALK LOW R6	25.860 mg/L	OK
18	L2474329-05	Sample size	50 mL	
		Potential R4	5.22 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.082 mL	OK
		Consumption 4.2 R3	0.105 mL	OK
		Content R5	1.640 mg/L	OK
		ALK LOW R6	1.180 mg/L	OK
19	L2473420-01 2x +10	Sample size	50 mL	
		Potential R4	5.80 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	9.239 mL	OK

Titration report

		Consumption 4.2 R3	9.405 mL	OK
		Content R5	184.780 mg/L	OK
		ALK LOW R6	181.460 mg/L	OK
20	L2473420-02 2x +10	Sample size	50 mL	
		Potential R4	5.36 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.283 mL	OK
		Consumption 4.2 R3	2.558 mL	OK
		Content R5	45.660 mg/L	OK
		ALK LOW R6	40.160 mg/L	OK
21	I2473423-08	Sample size	50 mL	
		Potential R4	6.95 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.559 mL	OK
		Consumption 4.2 R3	1.831 mL	OK
		Content R5	31.180 mg/L	OK
		ALK LOW R6	25.740 mg/L	OK
22	CCV	Sample size	50 mL	
		Potential R4	11.29 pH	OK
		Consumption 8.3 R1	4.701 mL	OK
		Consumption 4.5 R2	5.105 mL	OK
		Consumption 4.2 R3	5.110 mL	OK
		Content R5	102.100 mg/L	OK
		ALK LOW R6	102.000 mg/L	OK
23	CCB	Sample size	50 mL	
		Potential R4	5.45 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.051 mL	OK
		Consumption 4.2 R3	0.062 mL	OK
		Content R5	1.020 mg/L	OK
		ALK LOW R6	0.800 mg/L	OK
24	I2473484-01	Sample size	50 mL	
		Potential R4	5.49 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.532 mL	OK
		Consumption 4.2 R3	2.577 mL	OK
		Content R5	50.640 mg/L	OK
		ALK LOW R6	49.740 mg/L	OK
25	I2474161-01	Sample size	50 mL	
		Potential R4	5.37 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.230 mL	OK
		Consumption 4.2 R3	2.284 mL	OK
		Content R5	44.600 mg/L	OK
		ALK LOW R6	43.520 mg/L	OK
26	I2474624-01	Sample size	50 mL	
		Potential R4	9.12 pH	OK

Titration report

		Consumption 8.3 R1	7.091 mL	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
27	I2474624-02	Sample size	50 mL	
		Potential R4	11.75 pH	OK
		Consumption 8.3 R1	18.808 mL	OK
		Consumption 4.5 R2	19.500 mL	OK
		Consumption 4.2 R3	19.516 mL	OK
		Content R5	390.000 mg/L	OK
		ALK LOW R6	389.680 mg/L	OK
28	WG2011364-3	Sample size	50 mL	
		Potential R4	11.74 pH	OK
		Consumption 8.3 R1	18.775 mL	OK
		Consumption 4.5 R2	19.473 mL	OK
		Consumption 4.2 R3	19.486 mL	OK
		Content R5	389.460 mg/L	OK
		ALK LOW R6	389.200 mg/L	OK
29	WG2011364-4	Sample size	50 mL	
		Potential R4	11.80 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
30	I2474624-03	Sample size	50 mL	
		Potential R4	12.06 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
31	I2474624-04 2x+25	Sample size	50 mL	
		Potential R4	11.43 pH	OK
		Consumption 8.3 R1	7.305 mL	OK
		Consumption 4.5 R2	7.938 mL	OK
		Consumption 4.2 R3	7.939 mL	OK
		Content R5	158.760 mg/L	OK
		ALK LOW R6	158.740 mg/L	OK
32	I2474624-01 2x+10	Sample size	50 mL	
		Potential R4	5.66 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.395 mL	OK
		Consumption 4.2 R3	4.610 mL	OK
		Content R5	87.900 mg/L	OK
		ALK LOW R6	83.600 mg/L	OK

Titration report

LabX

33	WG2011364-4 2x+10	Sample size	50 mL	
		Potential R4	10.99 pH	OK
		Consumption 8.3 R1	4.493 mL	OK
		Consumption 4.5 R2	5.118 mL	OK
		Consumption 4.2 R3	5.124 mL	OK
		Content R5	102.360 mg/L	OK
		ALK LOW R6	102.240 mg/L	OK
34	I2474624-03 2x+20	Sample size	50 mL	
		Potential R4	12.25 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	CCV	Sample size	50 mL	
		Potential R4	11.33 pH	OK
		Consumption 8.3 R1	4.769 mL	OK
		Consumption 4.5 R2	5.219 mL	OK
		Consumption 4.2 R3	5.223 mL	OK
		Content R5	104.380 mg/L	OK
		ALK LOW R6	104.300 mg/L	OK
36	WG2011364-1	Sample size	50 mL	
		Potential R4	5.34 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.048 mL	OK
		Consumption 4.2 R3	0.063 mL	OK
		Content R5	0.960 mg/L	OK
		ALK LOW R6	0.660 mg/L	OK
37	I2472986-01	Sample size	50 mL	
		Potential R4	5.12 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.685 mL	OK
		Consumption 4.2 R3	0.733 mL	OK
		Content R5	13.700 mg/L	OK
		ALK LOW R6	12.740 mg/L	OK
38	I2472986-02	Sample size	50 mL	
		Potential R4	4.84 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.204 mL	OK
		Consumption 4.2 R3	0.245 mL	OK
		Content R5	4.080 mg/L	OK
		ALK LOW R6	3.260 mg/L	OK
39	I2473087-01	Sample size	50 mL	
		Potential R4	5.95 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.719 mL	OK
		Consumption 4.2 R3	5.754 mL	OK

Titration report

LabX

		Content R5	114.380 mg/L	OK
		ALK LOW R6	113.680 mg/L	OK
40	I2473094-01	Sample size	50 mL	
		Potential R4	6.30 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.918 mL	OK
		Consumption 4.2 R3	6.952 mL	OK
		Content R5	138.360 mg/L	OK
		ALK LOW R6	137.680 mg/L	OK
41	I2473740-01	Sample size	50 mL	
		Potential R4	5.56 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.846 mL	OK
		Consumption 4.2 R3	1.864 mL	OK
		Content R5	36.920 mg/L	OK
		ALK LOW R6	36.560 mg/L	OK
42	WG2011409-3	Sample size	50 mL	
		Potential R4	5.56 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.855 mL	OK
		Consumption 4.2 R3	1.871 mL	OK
		Content R5	37.100 mg/L	OK
		ALK LOW R6	36.780 mg/L	OK
43	WG2011409-4	Sample size	50 mL	
		Potential R4	10.47 pH	OK
		Consumption 8.3 R1	5.413 mL	OK
		Consumption 4.5 R2	7.517 mL	OK
		Consumption 4.2 R3	7.524 mL	OK
		Content R5	150.340 mg/L	OK
		ALK LOW R6	150.200 mg/L	OK
44	I2473740-02	Sample size	50 mL	
		Potential R4	5.54 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.213 mL	OK
		Consumption 4.2 R3	2.233 mL	OK
		Content R5	44.260 mg/L	OK
		ALK LOW R6	43.860 mg/L	OK
45	I2473740-03	Sample size	50 mL	
		Potential R4	5.69 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.820 mL	OK
		Consumption 4.2 R3	2.838 mL	OK
		Content R5	56.400 mg/L	OK
		ALK LOW R6	56.040 mg/L	OK
46	I2473740-04	Sample size	50 mL	
		Potential R4	5.71 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK

Titration report

LabX

		Consumption 4.5 R2	4.103 mL	OK
		Consumption 4.2 R3	4.130 mL	OK
		Content R5	82.060 mg/L	OK
		ALK LOW R6	81.520 mg/L	OK
47	I2473740-05	Sample size	50 mL	
		Potential R4	5.96 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.330 mL	OK
		Consumption 4.2 R3	4.359 mL	OK
		Content R5	86.600 mg/L	OK
		ALK LOW R6	86.020 mg/L	OK
48	I2473740-06	Sample size	50 mL	
		Potential R4	5.87 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.057 mL	OK
		Consumption 4.2 R3	4.081 mL	OK
		Content R5	81.140 mg/L	OK
		ALK LOW R6	80.660 mg/L	OK
49	I2473740-07	Sample size	50 mL	
		Potential R4	5.84 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.196 mL	OK
		Consumption 4.2 R3	4.224 mL	OK
		Content R5	83.920 mg/L	OK
		ALK LOW R6	83.360 mg/L	OK
50	I2473740-08	Sample size	50 mL	
		Potential R4	5.86 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.418 mL	OK
		Consumption 4.2 R3	4.447 mL	OK
		Content R5	88.360 mg/L	OK
		ALK LOW R6	87.780 mg/L	OK
51	I2473740-09	Sample size	50 mL	
		Potential R4	5.85 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.232 mL	OK
		Consumption 4.2 R3	4.260 mL	OK
		Content R5	84.640 mg/L	OK
		ALK LOW R6	84.080 mg/L	OK
52	I2473740-10	Sample size	50 mL	
		Potential R4	5.61 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.866 mL	OK
		Consumption 4.2 R3	1.877 mL	OK
		Content R5	37.320 mg/L	OK
		ALK LOW R6	37.100 mg/L	OK
53	I2473740-11	Sample size	50 mL	

Titration report

		Potential R4	5.11 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.068 mL	OK
		Consumption 4.2 R3	0.089 mL	OK
		Content R5	1.360 mg/L	OK
		ALK LOW R6	0.940 mg/L	OK
54	I2473740-11 CONF	Sample size	50 mL	
		Potential R4	4.89 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.043 mL	OK
		Consumption 4.2 R3	0.068 mL	OK
		Content R5	0.860 mg/L	OK
		ALK LOW R6	0.360 mg/L	OK
55	I2473740-12	Sample size	50 mL	
		Potential R4	5.74 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.069 mL	OK
		Consumption 4.2 R3	4.101 mL	OK
		Content R5	81.380 mg/L	OK
		ALK LOW R6	80.740 mg/L	OK
56	I2473740-13	Sample size	50 mL	
		Potential R4	5.89 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.058 mL	OK
		Consumption 4.2 R3	4.089 mL	OK
		Content R5	81.160 mg/L	OK
		ALK LOW R6	80.540 mg/L	OK
57	I2473740-14	Sample size	50 mL	
		Potential R4	5.72 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.360 mL	OK
		Consumption 4.2 R3	2.373 mL	OK
		Content R5	47.200 mg/L	OK
		ALK LOW R6	46.940 mg/L	OK
58	I2473740-15	Sample size	50 mL	
		Potential R4	5.63 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.123 mL	OK
		Consumption 4.2 R3	2.135 mL	OK
		Content R5	42.460 mg/L	OK
		ALK LOW R6	42.220 mg/L	OK
59	I2473740-16	Sample size	50 mL	
		Potential R4	5.65 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.901 mL	OK
		Consumption 4.2 R3	1.915 mL	OK
		Content R5	38.020 mg/L	OK

Titration report

		ALK LOW R6	37.740 mg/L	OK
60	I2474624-03 2x+10	Sample size	50 mL	
		Potential R4	11.41 pH	OK
		Consumption 8.3 R1	6.533 mL	OK
		Consumption 4.5 R2	6.972 mL	OK
		Consumption 4.2 R3	6.980 mL	OK
		Content R5	139.440 mg/L	OK
		ALK LOW R6	139.280 mg/L	OK
61	I2474624-03 2x+10 CONF	Sample size	50 mL	
		Potential R4	11.56 pH	OK
		Consumption 8.3 R1	8.322 mL	OK
		Consumption 4.5 R2	8.851 mL	OK
		Consumption 4.2 R3	8.857 mL	OK
		Content R5	177.020 mg/L	OK
		ALK LOW R6	176.900 mg/L	OK
62	I2473734-01	Sample size	50 mL	
		Potential R4	6.05 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	7.737 mL	OK
		Consumption 4.2 R3	7.796 mL	OK
		Content R5	154.740 mg/L	OK
		ALK LOW R6	153.560 mg/L	OK
63	WG2011450-3	Sample size	50 mL	
		Potential R4	6.14 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	7.772 mL	OK
		Consumption 4.2 R3	7.830 mL	OK
		Content R5	155.440 mg/L	OK
		ALK LOW R6	154.280 mg/L	OK
64	WG2011450-4	Sample size	50 mL	
		Potential R4	9.78 pH	OK
		Consumption 8.3 R1	5.082 mL	OK
		Consumption 4.5 R2	12.844 mL	OK
		Consumption 4.2 R3	12.882 mL	OK
		Content R5	256.880 mg/L	OK
		ALK LOW R6	256.120 mg/L	OK
65	I2473927-02	Sample size	50 mL	
		Potential R4	5.88 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.150 mL	OK
		Consumption 4.2 R3	6.195 mL	OK
		Content R5	123.000 mg/L	OK
		ALK LOW R6	122.100 mg/L	OK
66	WG2011450-2	Sample size	50 mL	
		Potential R4	10.88 pH	OK
		Consumption 8.3 R1	4.553 mL	OK
		Consumption 4.5 R2	4.912 mL	OK

Titration report

		Consumption 4.2 R3	4.915 mL	OK
		Content R5	98.240 mg/L	OK
		ALK LOW R6	98.180 mg/L	OK
67	WG2011450-1	Sample size	50 mL	
		Potential R4	5.21 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.039 mL	OK
		Consumption 4.2 R3	0.049 mL	OK
		Content R5	0.780 mg/L	OK
		ALK LOW R6	0.580 mg/L	OK
68	WG2011409-2	Sample size	50 mL	
		Potential R4	10.81 pH	OK
		Consumption 8.3 R1	4.501 mL	OK
		Consumption 4.5 R2	4.858 mL	OK
		Consumption 4.2 R3	4.866 mL	OK
		Content R5	97.160 mg/L	OK
		ALK LOW R6	97.000 mg/L	OK
69	WG2011409-1	Sample size	50 mL	
		Potential R4	5.26 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.035 mL	OK
		Consumption 4.2 R3	0.047 mL	OK
		Content R5	0.700 mg/L	OK
		ALK LOW R6	0.460 mg/L	OK
70	X	Sample size	50 mL	
		Potential R4	4.62 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.004 mL	OK
		Consumption 4.2 R3	0.071 mL	OK
		Content R5	0.080 mg/L	OK
		ALK LOW R6	-1.260 mg/L	OK

Statistics

R1

Mean	NaN mL		
Maximum	18.808 mL	**Minimum**	4.493 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	70	**Samples excluded**	0

R2

Mean	NaN mL		
Maximum	19.500 mL	**Minimum**	0.004 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	70	**Samples excluded**	0

Titration report

LabX

R3

Mean	NaN mL		
Maximum	19.516 mL	**Minimum**	0.019 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	70	**Samples excluded**	0

R4

Mean	6.95 pH		
Maximum	12.25 pH	**Minimum**	4.62 pH
Standard deviation	2.46 pH	**Rel. standard deviation**	35.434 %
Total samples	70	**Samples excluded**	0

R5

Mean	NaN mg/L		
Maximum	390.000 mg/L	**Minimum**	0.080 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	70	**Samples excluded**	0

R6

Mean	NaN mg/L		
Maximum	389.680 mg/L	**Minimum**	-1.260 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	70	**Samples excluded**	0

Used Instruments

Name	T7 Excellence Titrator	**Serial number**	C329519495

Responsible User

Time	Login name	Full name
12/19/2024 9:12:31 AM	SystemInternal	System internal account

(17) Data compression on instrument occurred

Quality Control

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: PZ-5	**Matrix**	: WATER
Lab Sample ID	: L2473538-01	**Analysis Date**	: 12/19/24 09:47
Dup Sample ID	: WG2011253-2	**DUP Analysis Date**	: 12/19/24 09:50

Parameter	Sample Concentration (mg CaCO3/L)	Duplicate Concentration (mg CaCO3/L)	RPD	RPD Limit
Alkalinity, Carbonate	ND	ND	NC	10
Alkalinity, Bicarbonate	96.3	98.6	2	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	241219	LCS 7.03	7	INT:	mkt
pH 4	3484	Titrant:	4193		
pH 7	3386	LCS:	3530		
pH 10	3482	MS:	3529		
LCS	3485				

1	Rinse,MKT	42	WG2011409-3
2	Rinse,MKT	43	WG2011409-4
3	WG2011253-1	44	l2473740-02
4	xLCS	45	l2473740-03
5	l2473420-01	46	l2473740-04
6	l2473420-02	47	l2473740-05
7	l2473420-03	48	l2473740-06
8	l2473538-01	49	l2473740-07
9	WG2011253-2	50	l2473740-08
10	l2473538-02	51	l2473740-09
11	l2473538-03	52	l2473740-10
12	l2473538-04	53	l2473740-11
13	l2473538-05	54	l2473740-11 CONF
14	l2474329-01	55	l2473740-12
15	l2474329-02	56	l2473740-13
16	l2474329-03	57	l2473740-14
17	l2474329-04	58	l2473740-15
18	l2474329-05	59	l2473740-16
19	l2473420-01 2x+10	60	l2474624-03 2x+10
20	l2473420-02 2x+10	61	l2474624-03 2x+10 CONF
21	l2473423-08	62	l2473734-01
22	CCV	63	WG2011450-3
23	CCB	64	WG2011450-4
24	l2473484-01	65	l2473927-02
25	l2474161-01	66	WG2011450-2
26	l2474624-01	67	WG2011450-1
27	l2474624-02	68	WG2011409-2
28	WG2011364-3	69	WG2011409-1
29	WG2011364-4	70	X
30	l2474624-03	71	
31	l2474624-04 2x+25	72	
32	l2474624-01 2x+10	73	
33	WG2011364-4 2x+10		
34	l2474624-03 2x+20		
35	CCV		
36	WG2011364-1		
37	l2472986-01		
38	l2472986-02		
39	l2473087-01		
40	l2473094-01		
41	l2473740-01		

Chloride Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-01	**Date Collected**	:	12/13/24 08:20
Client ID	:	PZ-5	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**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	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-02	**Date Collected**	:	12/13/24 09:45
Client ID	:	MW-5D	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 13:39
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	26.	1.0	0.89	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-03	**Date Collected**	:	12/13/24 11:20
Client ID	:	SCDOH-DR	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 13:40
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	40.	1.0	0.89	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-04	**Date Collected**	:	12/13/24 12:43
Client ID	:	MW-10S	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 13:40
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	5.9	1.0	0.89	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-05	**Date Collected**	:	12/13/24 12:30
Client ID	:	MW-10D	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/17/24 13:41
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	6.5	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010248-3	**Date Collected**	: 12/13/24 08:20
Client ID	: PZ-5DUP	**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

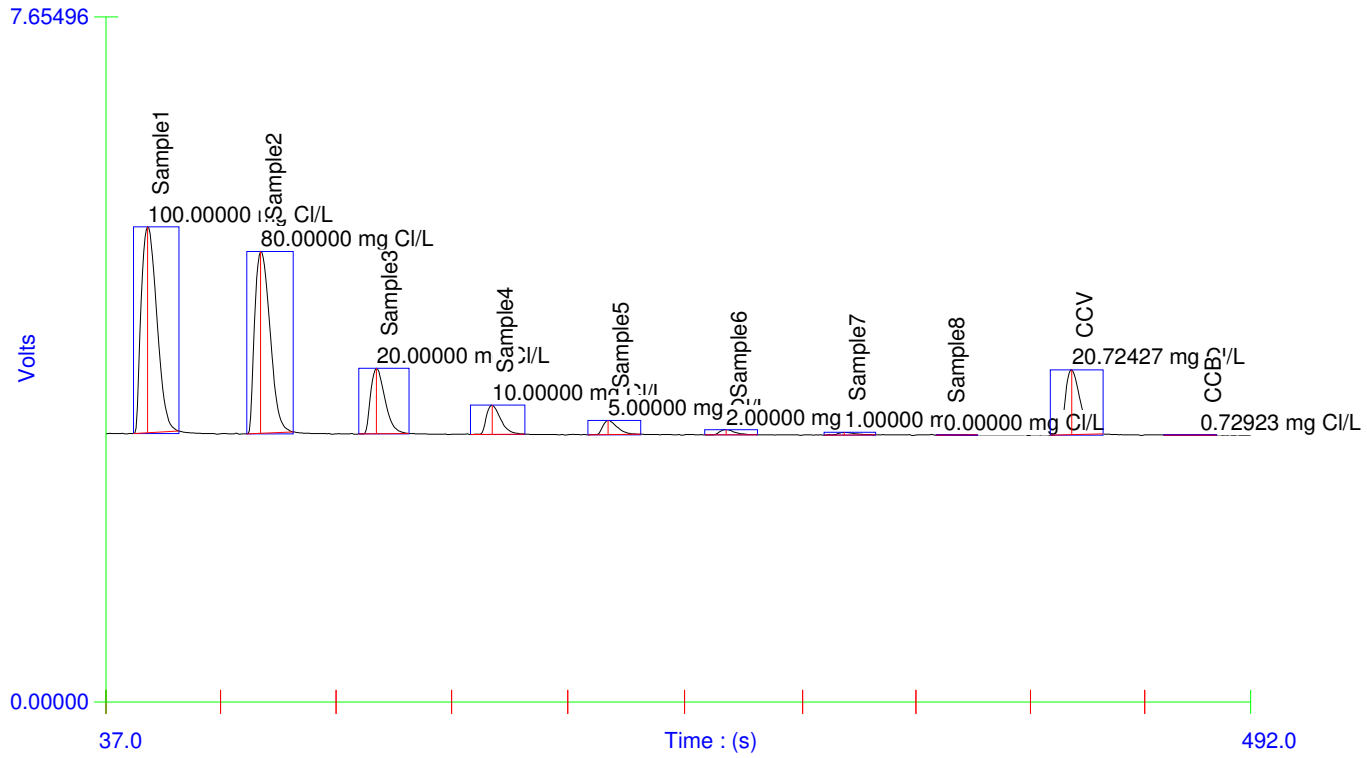
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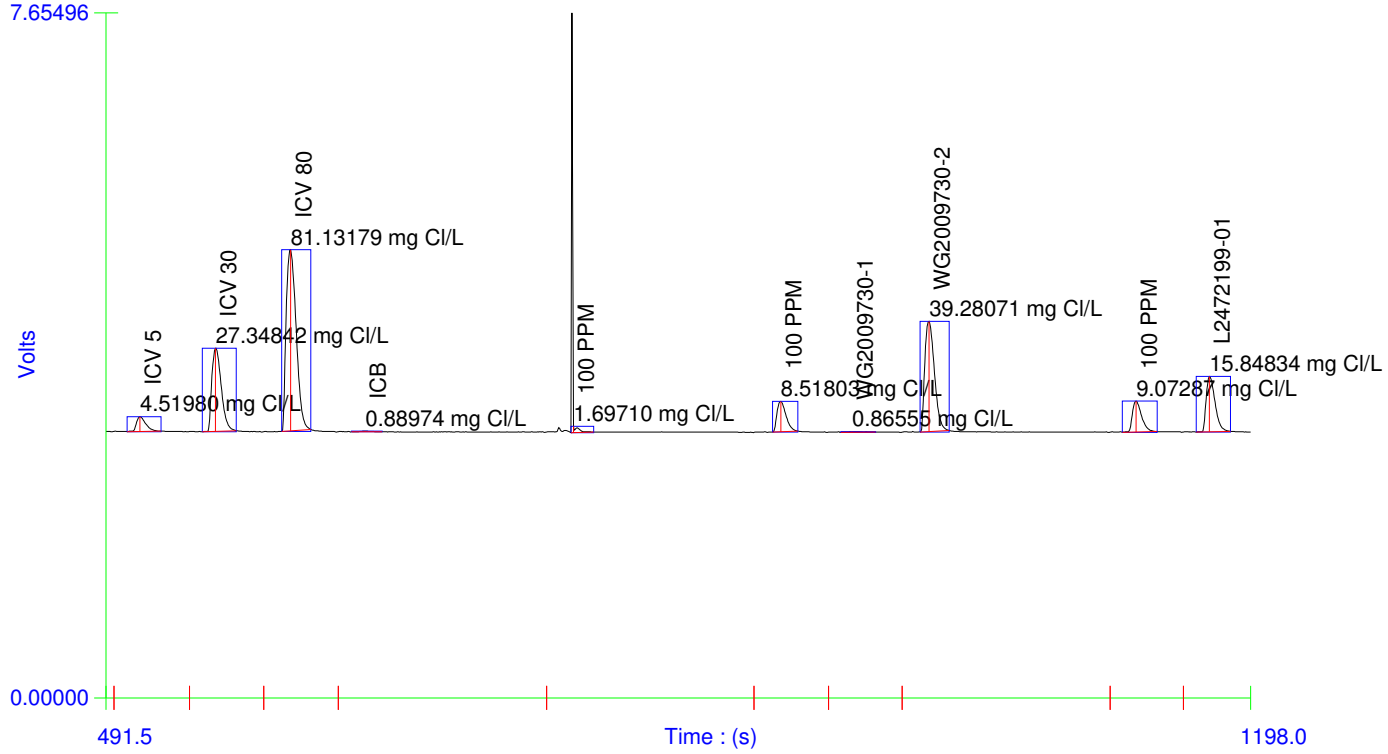
Sample	Rep.	Cup No.	Channel 1 Chloride-CH3 (mg Cl/L)	ADF	MDF	Weight	
Sample1	1	S1	100.00000				
Sample2	1	S2	80.00000				
Sample3	1	S3	20.00000				
Sample4	1	S4	10.00000				
Sample5	1	S5	5.00000				
Sample6	1	S6	2.00000				
Sample7	1	S7	1.00000				
Sample8	1	S9	0.00000				
CCV	1	S3	20.72427				
	Known 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

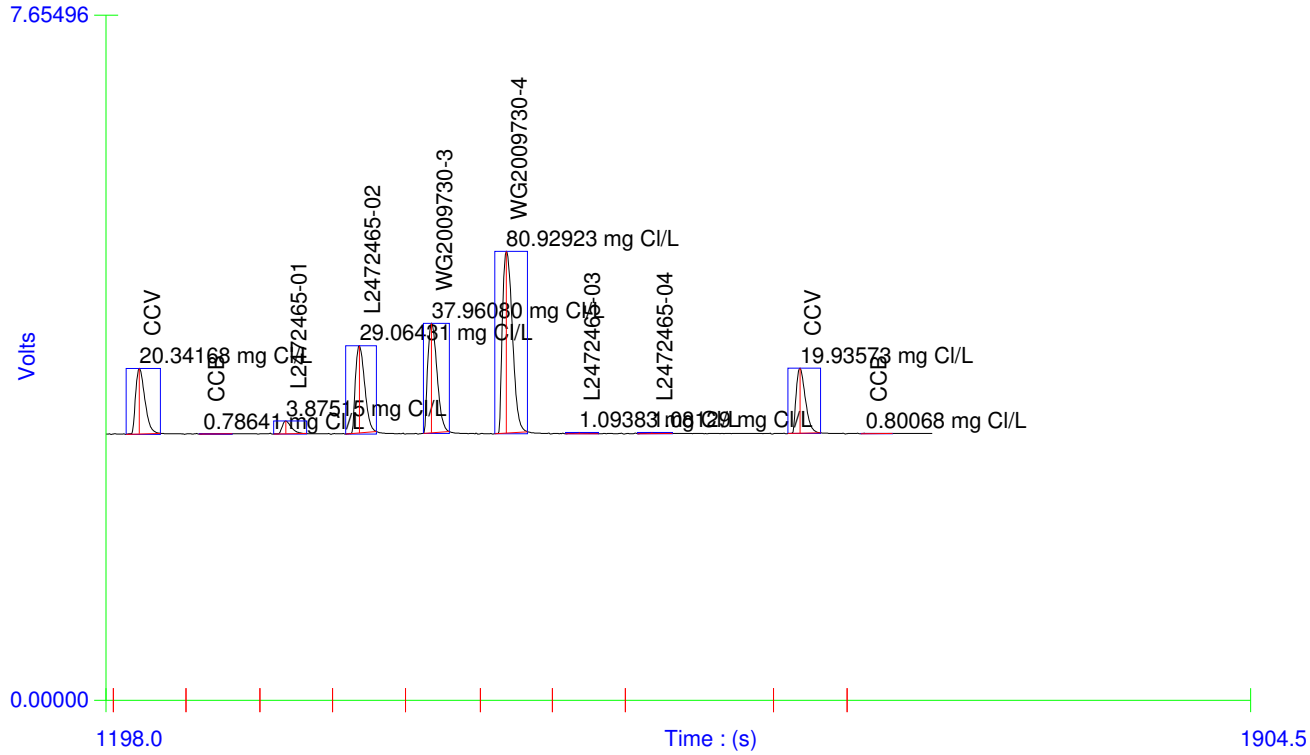
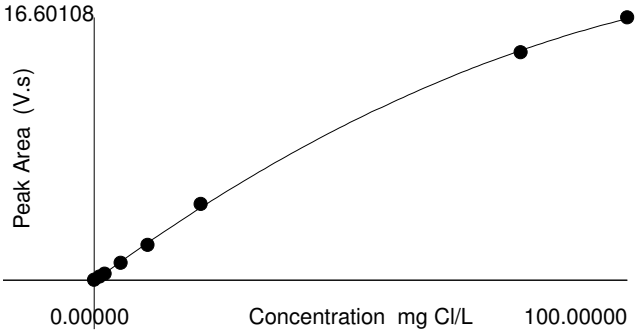


Table : 1 (Chloride-CH3)

	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

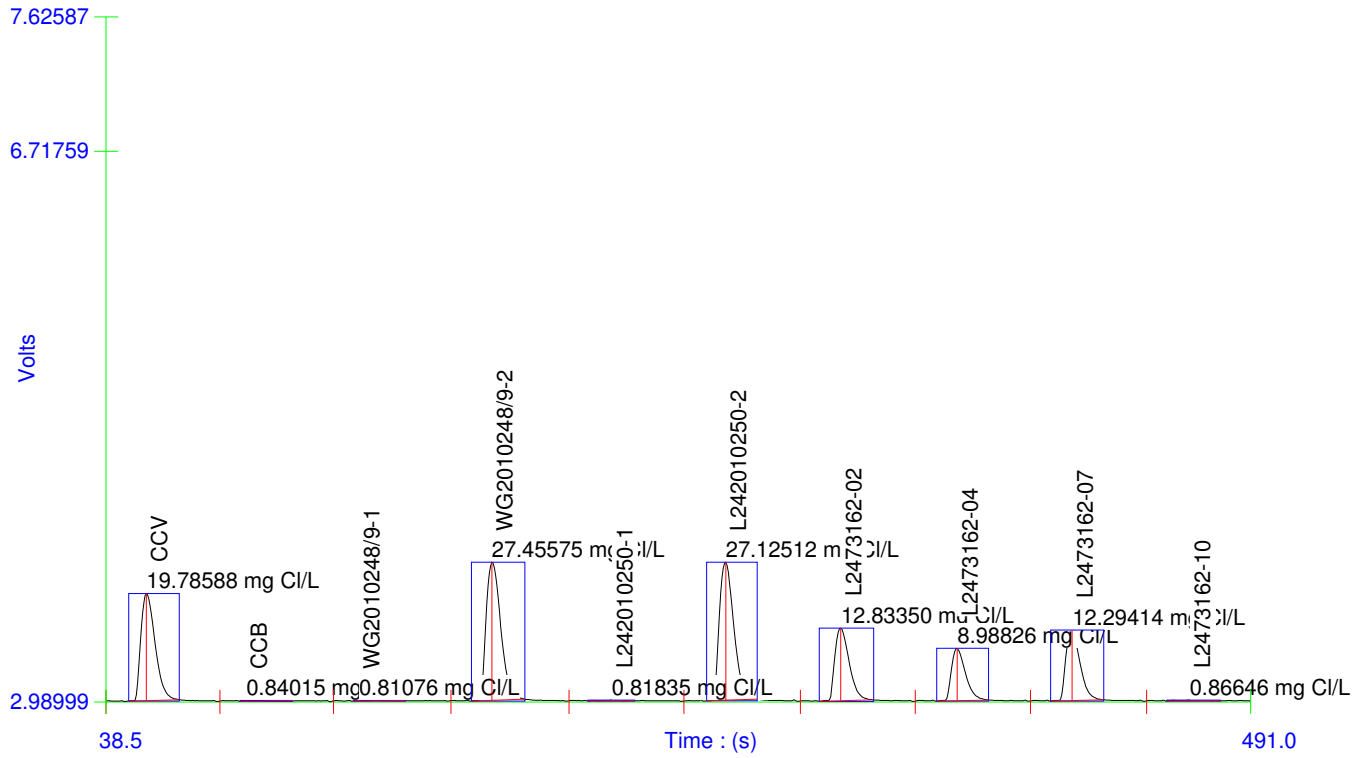
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Current Run Author's Signature: [a1wetcheminstrument]
Description: Default New Run

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			

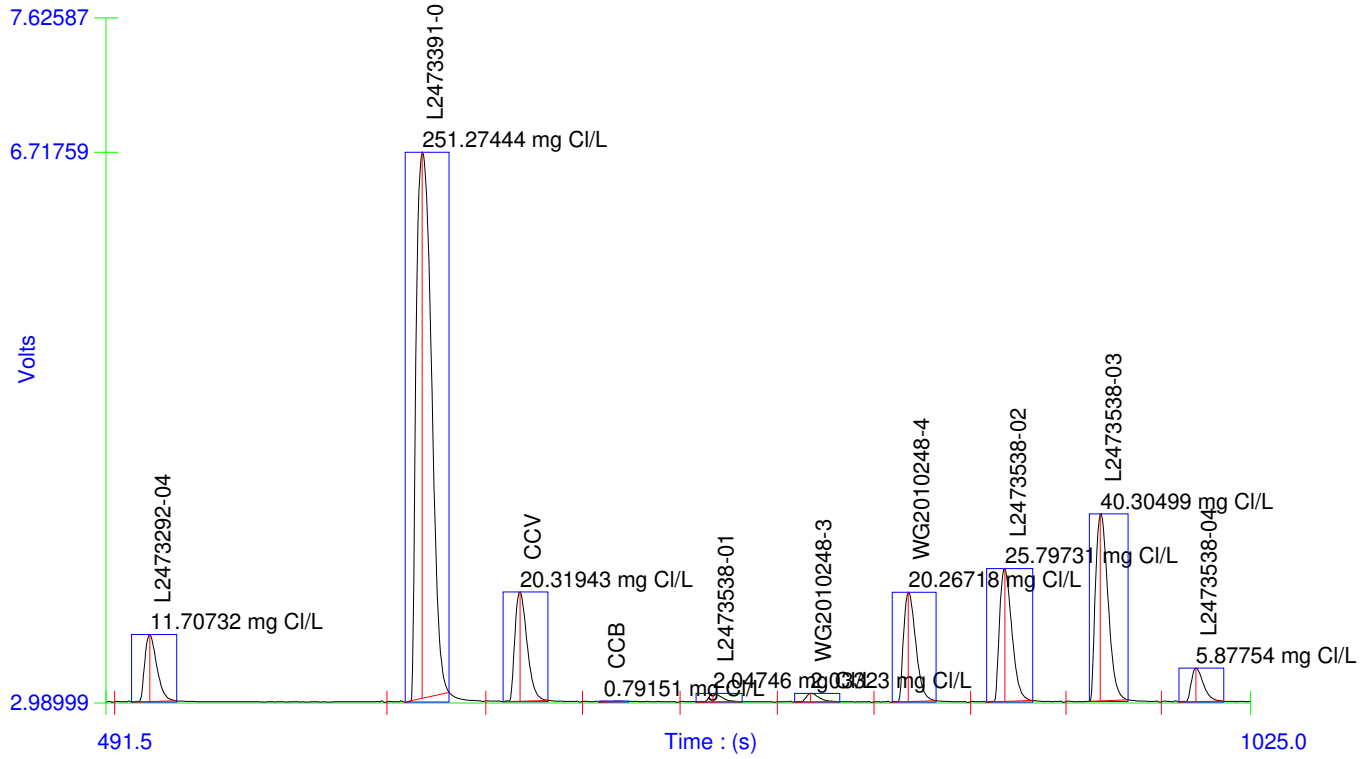
		Known Conc:	20.00000			
CCB	1	S9	0.80765			
		Known Conc:	0.00000			
L2473740-12	1	55	204.53755			
L2473740-13	1	56	206.69453			
L2473740-14	1	57	126.83797			
L2473740-15	1	58	114.28097			
L2473740-16	1	59	116.66338			
L2473800-01	1	60	242.73701			
L2473800-02	1	61	239.54138			
L2473800-03	1	62	239.99788			
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

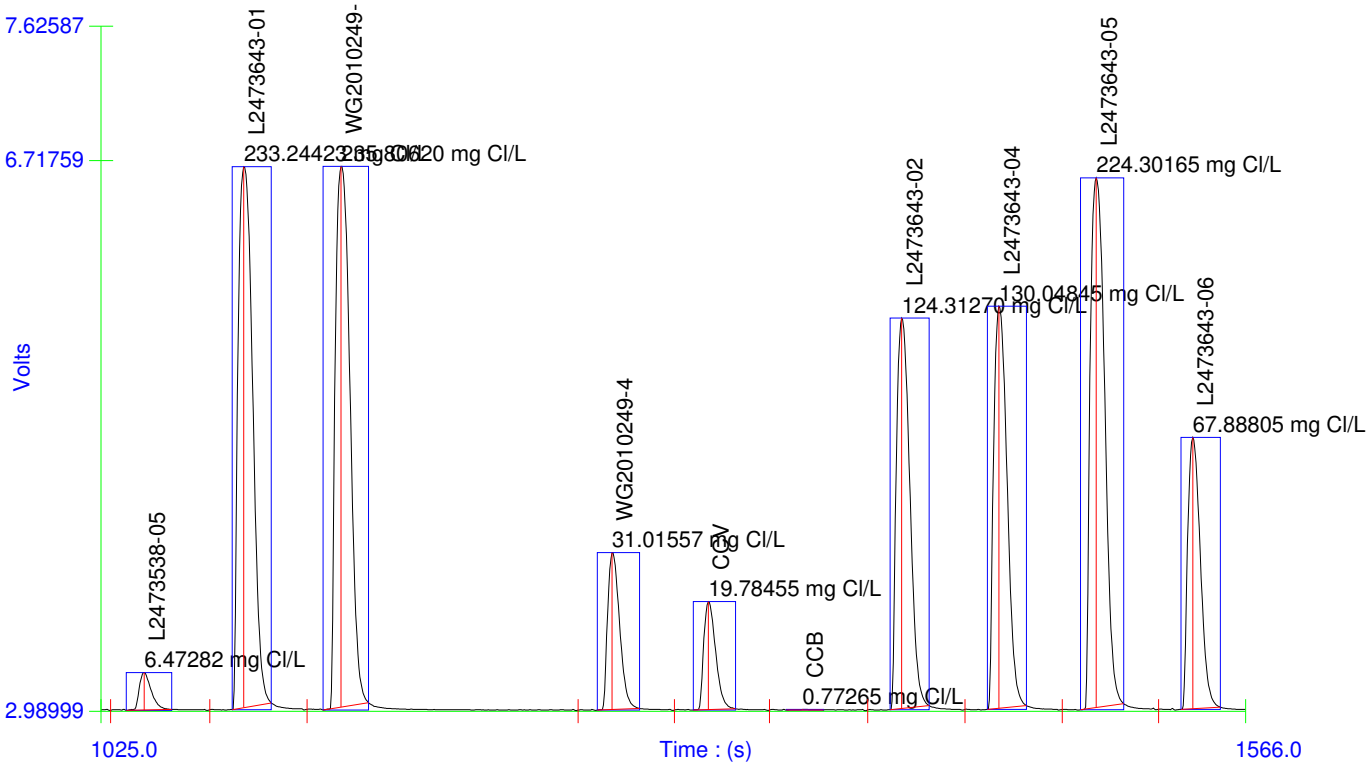


Channel 1 (Chloride) - Set: 2 / 10



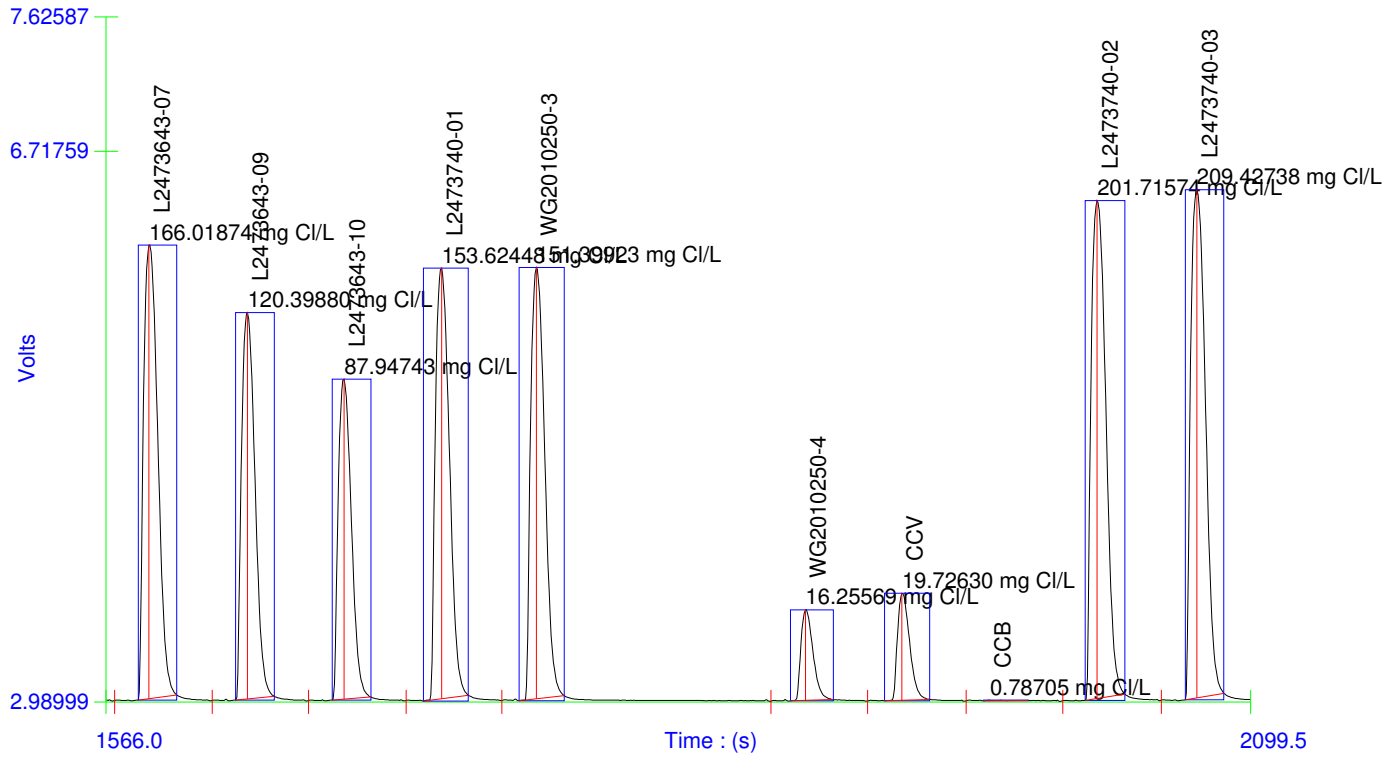
Author: Date : 12/17/2024

Channel 1 (Chloride) - Set: 3 / 10

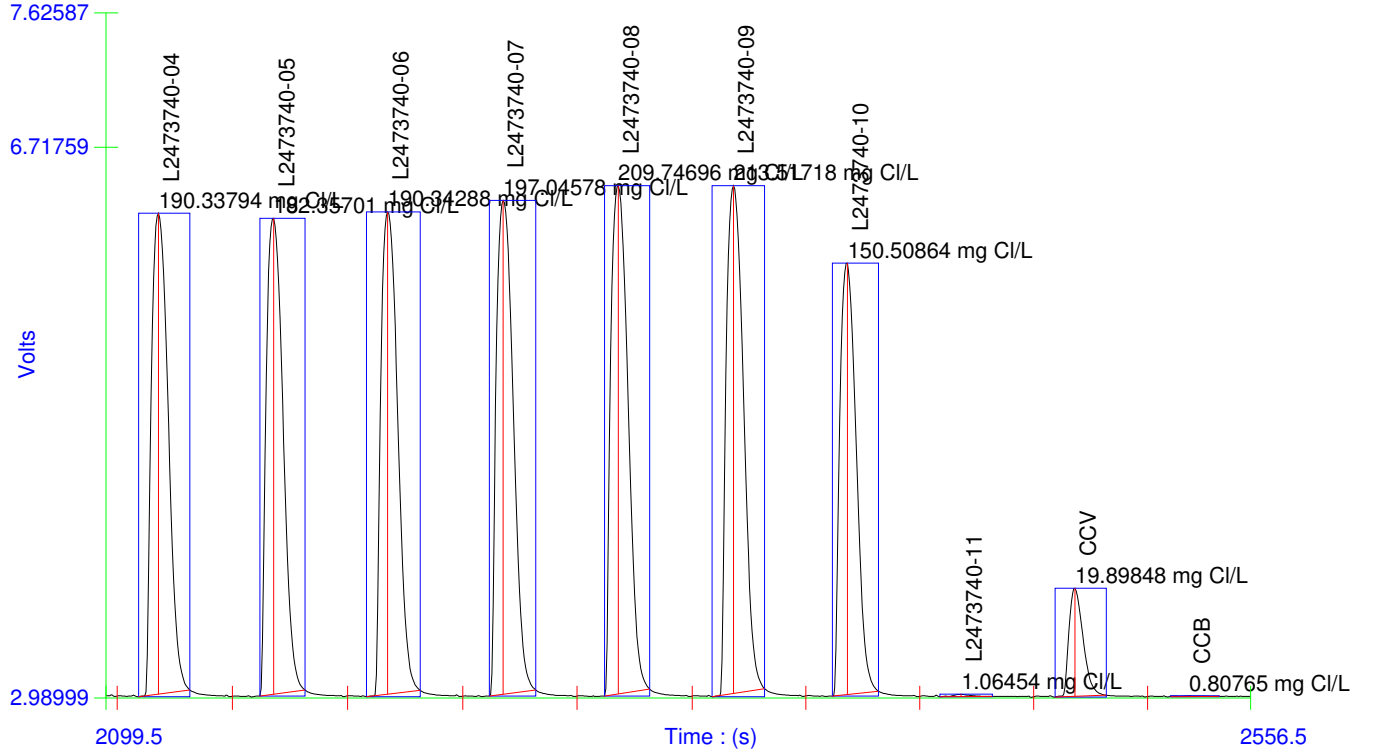


Author: Date : 12/17/2024

Channel 1 (Chloride) - Set: 4 / 10

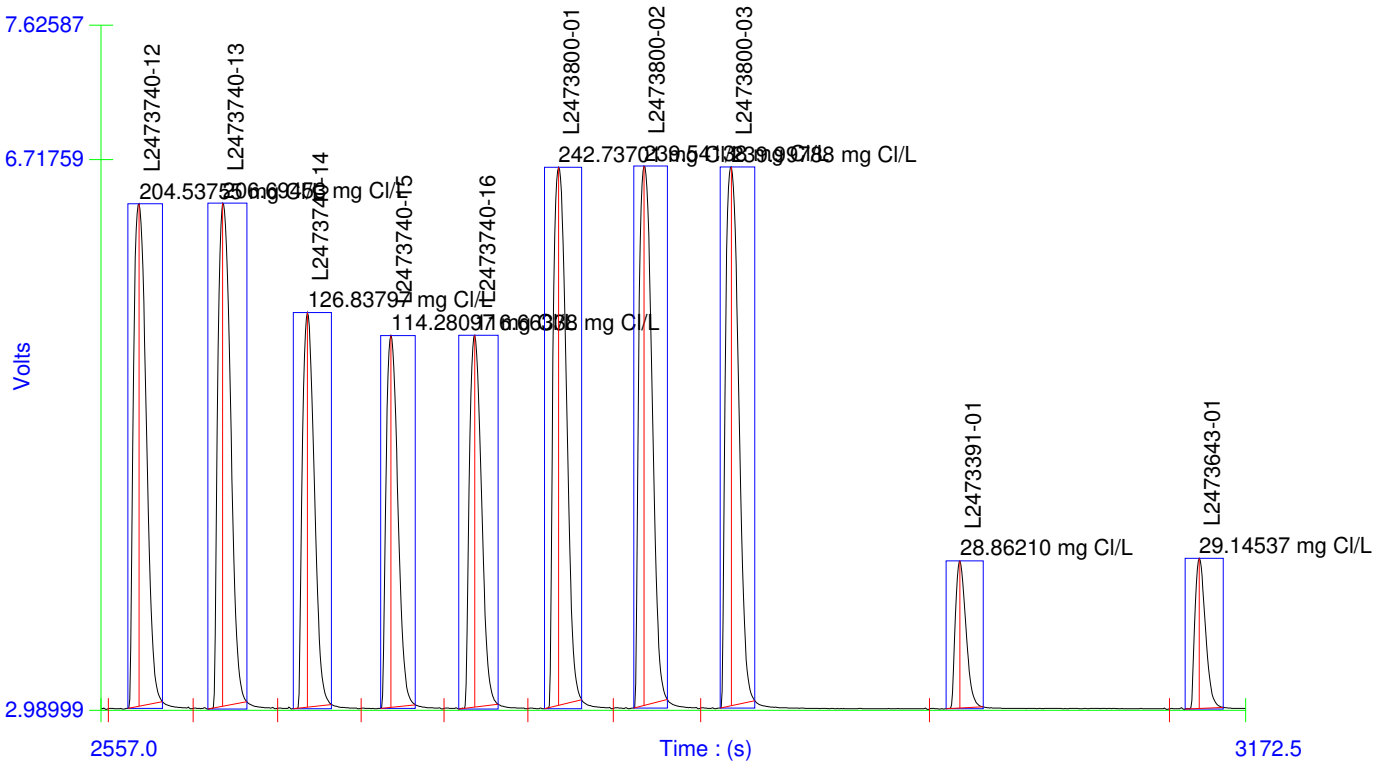


Channel 1 (Chloride) - Set: 5 / 10



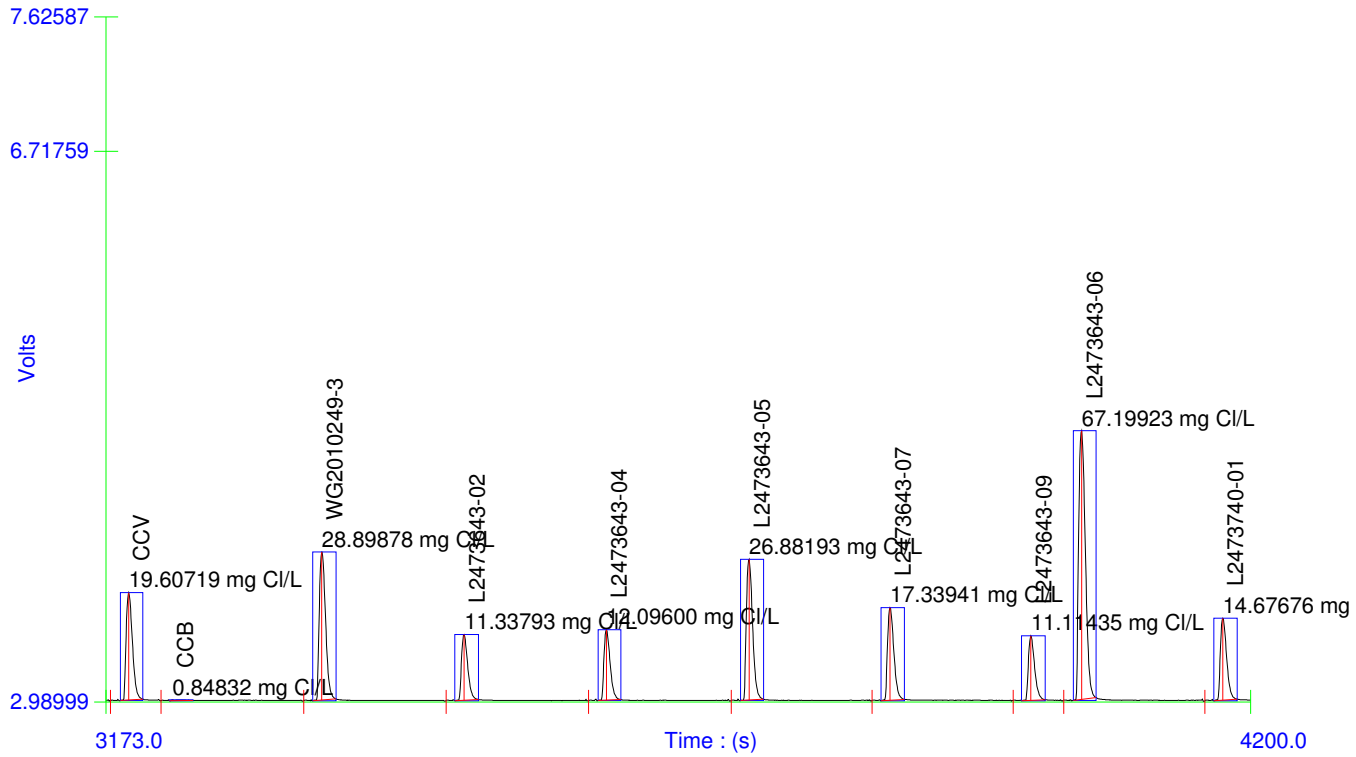
Author: Date : 12/17/2024

Channel 1 (Chloride) - Set: 6 / 10

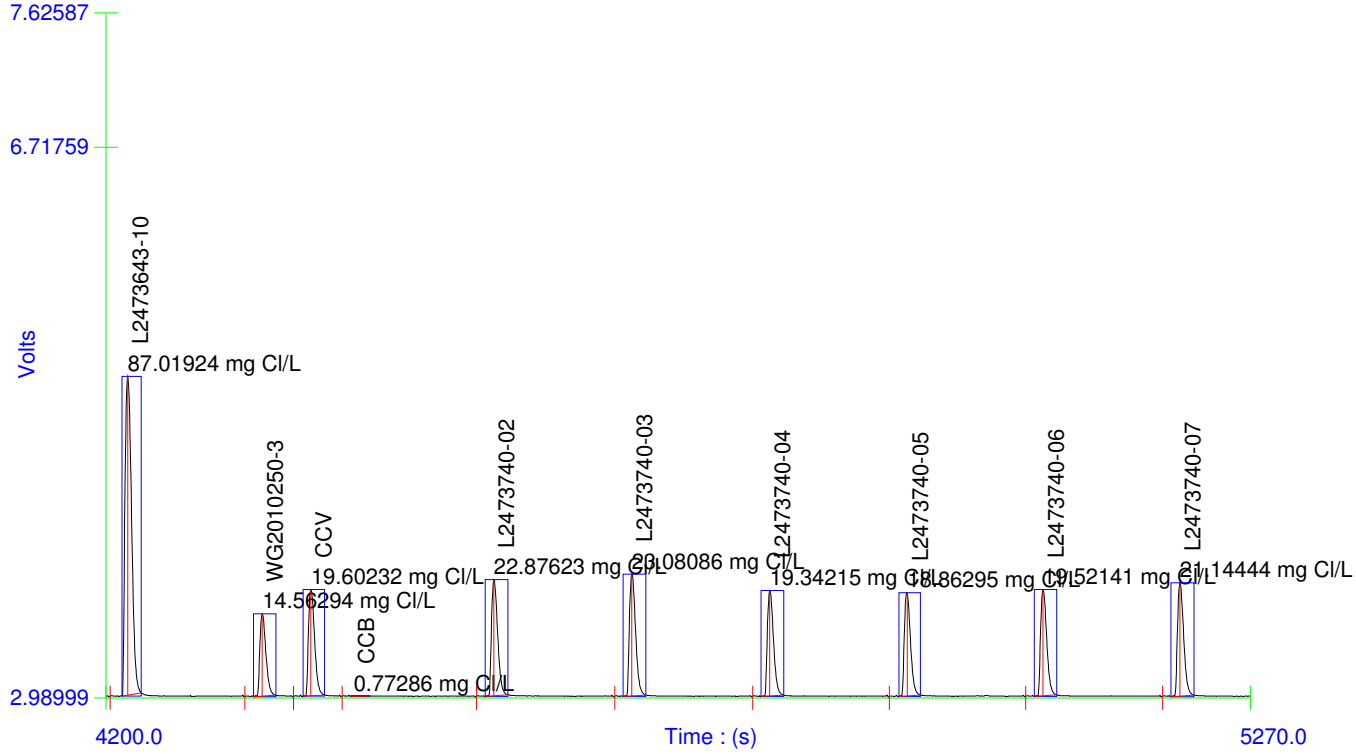


Author: Date : 12/17/2024

Channel 1 (Chloride) - Set: 7 / 10

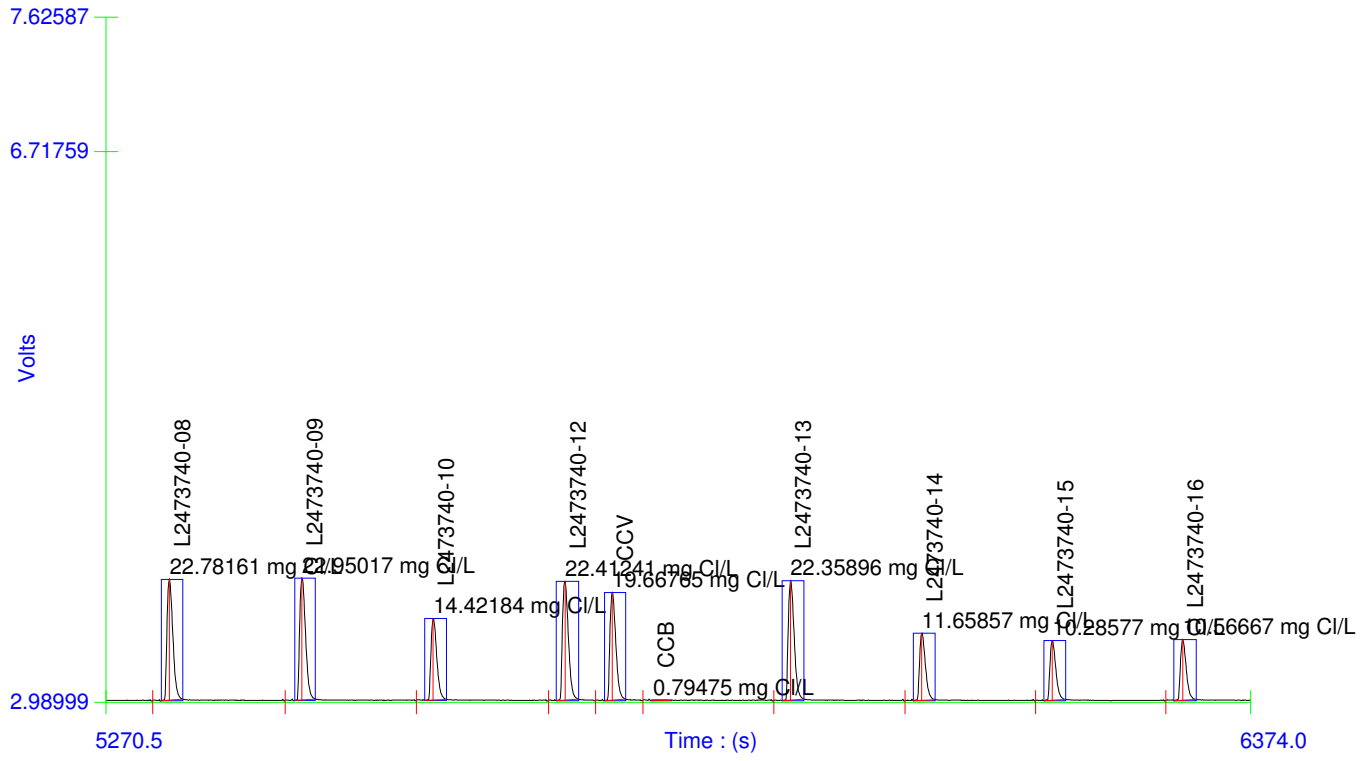


Channel 1 (Chloride) - Set: 8 / 10



Author: Date : 12/17/2024

Channel 1 (Chloride) - Set: 9 / 10



Author: Date : 12/17/2024

Channel 1 (Chloride) - Set: 10 / 10

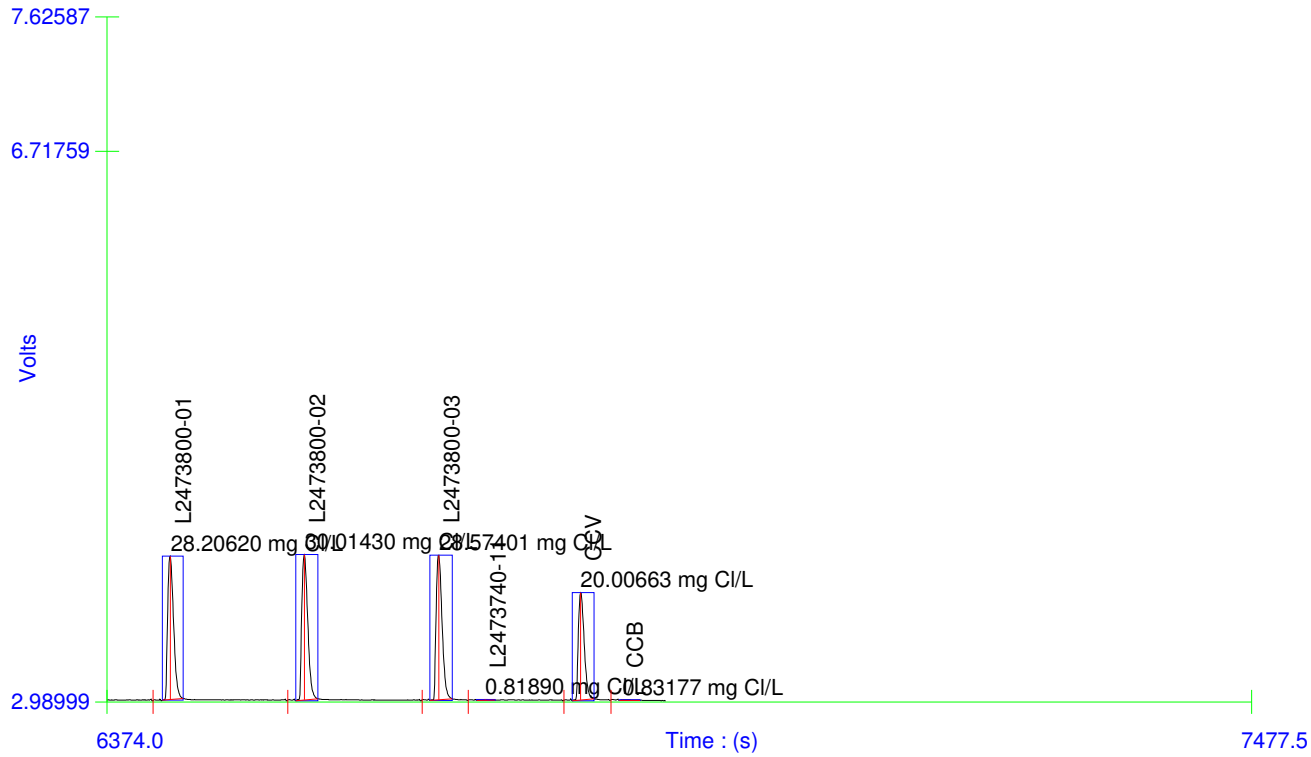
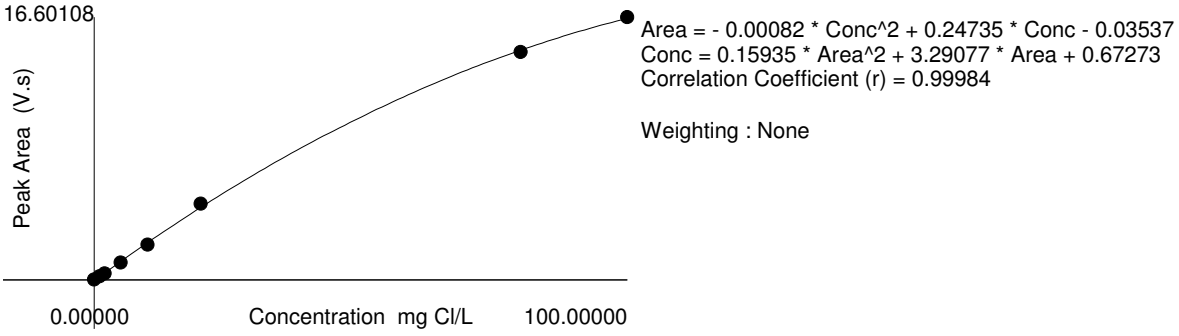


Table : 1 (Chloride-CH3)

	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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: PZ-5	**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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: PZ-5	**Matrix**	: WATER
Lab Sample ID	: L2473538-01	**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**	: L2473538
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					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	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 FCV 5
2 30
3 80
4 FCB
5 600ppm 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 73292-04
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.

Fluoride Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-01	**Date Collected**	:	12/13/24 08:20
Client ID	:	PZ-5	**Date Received**	:	12/13/24
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**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-02	**Date Collected**	:	12/13/24 09:45
Client ID	:	MW-5D	**Date Received**	:	12/13/24
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**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-03	**Date Collected**	:	12/13/24 11:20
Client ID	:	SCDOH-DR	**Date Received**	:	12/13/24
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	0.02	0.20	0.01	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-04	**Date Collected**	:	12/13/24 12:43
Client ID	:	MW-10S	**Date Received**	:	12/13/24
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	ND	0.20	0.01	U

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-05	**Date Collected**	:	12/13/24 12:30
Client ID	:	MW-10D	**Date Received**	:	12/13/24
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	0.06	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
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**	: L2473538
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

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: 12/15/2024 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**	: L2473538
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 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
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 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
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**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Fluoride	16984-48-8	0.2	0.017	mg/l	78-120		69-124	13	13	4500F-BC	28 days	1 - Plastic 500ml unpreserved

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

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Fluoride	16984-48-8	10	1.04	mg/kg	80-120		70-130	20	20	4500F-BC	28 days	1 - Glass 250ml/8oz unpreserved

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

Calculations of Fluoride

When the volume of the distillate is the same as the volume of the sample used, the direct determination of Fluoride concentration is the instrument's result.

However, when analyzing soil samples or high level samples requiring a dilution, the following equations apply:

For liquids:

Fluoride, mg/L = (mg F-/L) X (Volume of Distillate, mL)/ Volume of Sample, mL

For solids:

Fluoride, mg/Kg = (mg F-/L) X (Volume of Distillate, mL)/Weight of Sample, gm

To calculate final result for soil samples based on dry weight, multiply final result on 100 and divide on %TS (in %)

Sample Preparation

Project No. _____

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
0.2	122.2
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	2(25mL/50mL)	b	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**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-01	**Date Collected**	:	12/13/24 08:20
Client ID	:	PZ-5	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 11:54
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500P-E(M)	**Analyst**	:	EYA
Lab File ID	:	PHOS121924-WG2011137,40,4	**Instrument ID**	:	SEAL2
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/19/24

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

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-02	**Date Collected**	:	12/13/24 09:45
Client ID	:	MW-5D	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 11:57
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500P-E(M)	**Analyst**	:	EYA
Lab File ID	:	PHOS121924-WG2011137,40,4	**Instrument ID**	:	SEAL2
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.043	0.031	0.012	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-03	**Date Collected**	:	12/13/24 11:20
Client ID	:	SCDOH-DR	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 11:58
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500P-E(M)	**Analyst**	:	EYA
Lab File ID	:	PHOS121924-WG2011137,40,4	**Instrument ID**	:	SEAL2
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/19/24

		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**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-04	**Date Collected**	:	12/13/24 12:43
Client ID	:	MW-10S	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 11:59
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500P-E(M)	**Analyst**	:	EYA
Lab File ID	:	PHOS121924-WG2011137,40,4	**Instrument ID**	:	SEAL2
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.034	0.031	0.012	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-05	**Date Collected**	:	12/13/24 12:30
Client ID	:	MW-10D	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/19/24 12:00
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500P-E(M)	**Analyst**	:	EYA
Lab File ID	:	PHOS121924-WG2011137,40,4	**Instrument ID**	:	SEAL2
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	12/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.058	0.031	0.012	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2011137-1	**Date Collected**	: NA
Client ID	: WG2011137-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/19/24 11:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS121924-WG2011137,40,4	**Instrument ID**	: SEAL2
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/19/24

		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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2011137-3	**Date Collected**	: 12/13/24 08:20
Client ID	: PZ-5DUP	**Date Received**	: 12/13/24
Sample Location	:	**Date Analyzed**	: 12/19/24 11:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS121924-WG2011137,40,4	**Instrument ID**	: SEAL2
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.052	0.031	0.012	

Sample Raw Data

AQ2 Tray Report

SEAL Analytical

Software version :	2.4.5
Report requested by :	EAsamoah
Date \ Time :	20-Dec-2024 09:57:19
Tray number :	1
Tray name :	WG2011137,40,44

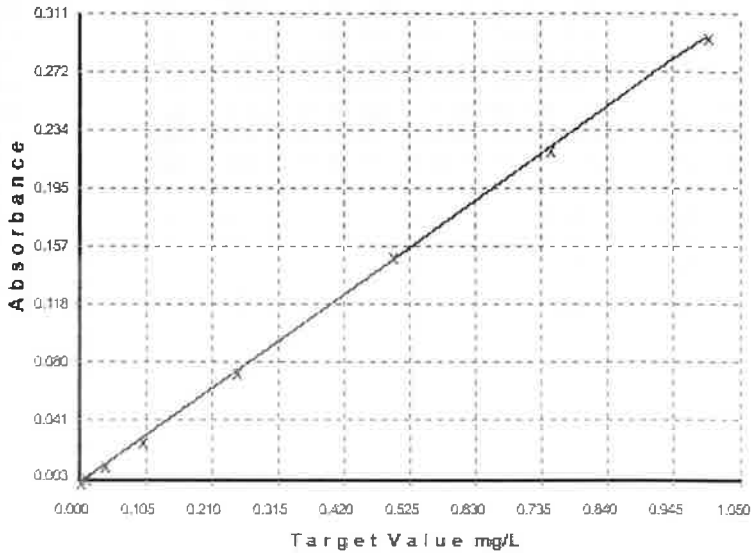
T-Phos 1

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0027	0.001	0.000	
S90	0.0059	0.012	0.010	17.34
S91	0.0136	0.038	0.040	-5.22
S92	0.0307	0.096	0.100	-4.01
S93	0.0754	0.248	0.250	-0.87
S94	0.1524	0.510	0.500	1.92
S95	0.2229	0.749	0.750	-0.13
S96	0.2959	0.997	1.000	-0.31
S0	0.0028	0.001	0.000	

Polynomial Order :	1
Correlation Coefficient :	0.9999
Carryover(%) :	0.0
Calibration equation:	y = bx + a
y = :	Concentration mg/L
x = :	Measured absorbance
a = :	-8.135528E-03
b = :	3.396275E+00
Date & Time :	19-Dec-2024 11:48:35

Calibration Graph



Reagents

Reagent Name	Batch Number	Operator	Expiry Date
TP Working Color	TP Color-12172024	MEF	07-Jan-2025 00:00:00
TP Ascorbic	TP Ascorbic-12192024	MEF	26-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				0.002681			EYA	19-Dec-2024 11:40:48
	S90	Standard 90		0.006				0.005850			EYA	19-Dec-2024 11:41:46
	S91	Standard 91		0.014				0.013558			EYA	19-Dec-2024 11:42:44
	S92	Standard 92		0.031				0.030659			EYA	19-Dec-2024 11:43:42
	S93	Standard 93		0.075				0.075364			EYA	19-Dec-2024 11:44:40
	S94	Standard 94		0.152				0.152444			EYA	19-Dec-2024 11:45:39
	S95	Standard 95		0.223				0.222945			EYA	19-Dec-2024 11:46:37
	S96	Standard 96		0.296				0.295930			EYA	19-Dec-2024 11:47:36
	S0	Standard 0		0.003				0.002754			EYA	19-Dec-2024 11:48:35
2	ICV	ICV	19-DEC-2024 08-21	0.487	mg/L			0.145675			EYA	19-Dec-2024 11:49:33
3	ICB	ICB	19-DEC-2024 08-21	-0.000	mg/L			0.002271			EYA	19-Dec-2024 11:50:34
4	U1	WG2011137-1O	19-DEC-2024 08-21	-0.000ELL	mg/L			0.002270			EYA	19-Dec-2024 11:51:35
5	U2	WG2011137-2O	19-DEC-2024 08-21	0.479	mg/L			0.143544			EYA	19-Dec-2024 11:52:34
6	U3	L2473453-01O25	19-DEC-2024 08-21	96.620	mg/L			0.229986	x5.0000	x25.0000	EYA	19-Dec-2024 12:37:41
6	U3	L2473453-01O25	19-DEC-2024 08-21	63.607	mg/L			0.751534		x25.0000	EYA	19-Dec-2024 11:53:33
7	U4	L2473538-01O	19-DEC-2024 08-21	0.015	mg/L			0.006749			EYA	19-Dec-2024 11:54:31
8	U5	WG2011137-3O	19-DEC-2024 08-21	0.017	mg/L			0.007317			EYA	19-Dec-2024 11:55:31
9	U6	WG2011137-4O	19-DEC-2024 08-21	0.546	mg/L			0.163291			EYA	19-Dec-2024 11:56:30
10	U7	L2473538-02O	19-DEC-2024 08-21	0.014	mg/L			0.006638			EYA	19-Dec-2024 11:57:29

11	U8	L2473538-03O	19-DEC-2024 08-21	0.006	mg/L	0.004235		EYA	19-Dec-2024 11:58:28
12	U9	L2473538-04O	19-DEC-2024 08-21	0.011	mg/L	0.005552		EYA	19-Dec-2024 11:59:26
13	U10	L2473538-05O	19-DEC-2024 08-21	0.019	mg/L	0.008009		EYA	19-Dec-2024 12:00:25
	CCV	CCV		0.472	mg/L	0.141381		EYA	19-Dec-2024 12:01:24
	CCB	CCB		-0.001	mg/L	0.002197		EYA	19-Dec-2024 12:02:25
14	U11	L2471236-01-5	19-DEC-2024 08-21	3.279	mg/L	0.195512	x5.0000	EYA	19-Dec-2024 12:03:25
15	U12	L2472200-01-5	19-DEC-2024 08-21	2.810	mg/L	0.167881	x5.0000	EYA	19-Dec-2024 12:04:24
16	U13	L2472200-02	19-DEC-2024 08-21	0.220	mg/L	0.067196		EYA	19-Dec-2024 12:05:23
17	U14	L2472822-01-10	19-DEC-2024 08-21	0.101	mg/L	0.005359	x10.0000	EYA	19-Dec-2024 12:06:21
18	U15	L2472825-01	19-DEC-2024 08-21	0.050	mg/L	0.017194		EYA	19-Dec-2024 12:07:19
19	U16	L2472826-01-2	19-DEC-2024 08-21	0.580	mg/L	0.087730	x2.0000	EYA	19-Dec-2024 12:08:17
20	U17	L2472827-01-10	19-DEC-2024 08-21	0.081	mg/L	0.004788	x10.0000	EYA	19-Dec-2024 12:09:15
21	U18	L2472954-01	19-DEC-2024 08-21	0.077	mg/L	0.024976		EYA	19-Dec-2024 12:10:13
22	U19	L2472973-01-10	19-DEC-2024 08-21	0.108	mg/L	0.005585	x10.0000	EYA	19-Dec-2024 12:11:11
23	U20	L2473052-01	19-DEC-2024 08-21	0.132	mg/L	0.041145		EYA	19-Dec-2024 12:12:11
	CCV	CCV		0.459	mg/L	0.137583		EYA	19-Dec-2024 12:13:12
	CCB	CCB		-0.000	mg/L	0.002387		EYA	19-Dec-2024 12:13:45
24	U21	L2473052-02	19-DEC-2024 08-21	0.067	mg/L	0.022261		EYA	19-Dec-2024 12:14:43
25	U22	WG2011140-3	19-DEC-2024 08-21	0.068	mg/L	0.022314		EYA	19-Dec-2024 12:15:34
26	U23	WG2011140-4	19-DEC-2024 08-21	0.525	mg/L	0.156858		EYA	19-Dec-2024 12:16:25
27	U24	FILTER BLANK	19-DEC-2024 08-21	0.001	mg/L	0.002686		EYA	19-Dec-2024 12:17:16
28	U25	L2473052-01D	19-DEC-2024 08-21	0.011	mg/L	0.005691		EYA	19-Dec-2024 12:18:08
29	U26	WG2011144-3D	19-DEC-2024 08-21	0.009	mg/L	0.005133		EYA	19-Dec-2024 12:18:59
30	U27	L2473052-02D	19-DEC-2024 08-21	0.008	mg/L	0.004770		EYA	19-Dec-2024 12:19:50
31	U28	WG2011144-4D	19-DEC-2024 08-21	0.588	mg/L	0.175667		EYA	19-Dec-2024 12:20:41
	CCV	CCV		0.486	mg/L	0.145397		EYA	19-Dec-2024 12:21:32
	CCB	CCB		-0.000	mg/L	0.002302		EYA	19-Dec-2024 12:22:24
	CCV	CCV		0.492	mg/L	0.147238		EYA	19-Dec-2024 12:35:57
	CCB	CCB		0.000	mg/L	0.002396		EYA	19-Dec-2024 12:36:49
	CCV	CCV		0.480	mg/L	0.143774		EYA	19-Dec-2024 12:38:32
	CCB	CCB		0.000	mg/L	0.002528		EYA	19-Dec-2024 12:39:24

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: PZ-5	**Matrix**	: WATER
Lab Sample ID	: L2473538-01		
Matrix Spike	: WG2011137-4	**MS Analysis Date**	: 12/19/24 11:56
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	0.046	1.53	1.68	107					80-120	15

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: PZ-5	**Matrix**	: WATER
Lab Sample ID	: L2473538-01	**Analysis Date**	: 12/19/24 11:54
Dup Sample ID	: WG2011137-3	**DUP Analysis Date**	: 12/19/24 11:55

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Phosphate, Total	0.046	0.052	13	15

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2011137-2	**LCS Analysis Date**	: 12/19/24 11:52
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**	**1.47**	**96.**					**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**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-01	**Date Collected**	:	12/13/24 08:20
Client ID	:	PZ-5	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 20:48
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,2540D	**Analyst**	:	REM
Lab File ID	:	WG2011007.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**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-02	**Date Collected**	:	12/13/24 09:45
Client ID	:	MW-5D	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 10:49
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,2540D	**Analyst**	:	BAY
Lab File ID	:	WG2010721.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	14.	5.0	NA	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2473538
Project Name	:	CORAM MATERIALS	Project Number	:	2232.0006Y005
Lab ID	:	L2473538-03	Date Collected	:	12/13/24 11:20
Client ID	:	SCDOH-DR	Date Received	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	:	12/18/24 14:01
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	121,2540D	Analyst	:	BAY
Lab File ID	:	WG2010839.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	:	L2473538
Project Name	:	CORAM MATERIALS	Project Number	:	2232.0006Y005
Lab ID	:	L2473538-04	Date Collected	:	12/13/24 12:43
Client ID	:	MW-10S	Date Received	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	:	12/18/24 10:49
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	121,2540D	Analyst	:	BAY
Lab File ID	:	WG2010721.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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2473538-05	**Date Collected**	: 12/13/24 12:30
Client ID	: MW-10D	**Date Received**	: 12/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 12/18/24 10:49
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540D	**Analyst**	: BAY
Lab File ID	: WG2010721.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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010721-1	**Date Collected**	: NA
Client ID	: WG2010721-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/18/24 10:49
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540D	**Analyst**	: BAY
Lab File ID	: WG2010721.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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010721-3	**Date Collected**	: 12/12/24 11:00
Client ID	: WG2010721-3 DUP	**Date Received**	: 12/13/24
Sample Location	:	**Date Analyzed**	: 12/18/24 10:49
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 121,2540D	**Analyst**	: BAY
Lab File ID	: WG2010721.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	1200	50	NA	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	WG2010721-4	**Date Collected**	:	12/12/24 07:00
Client ID	:	WG2010721-4 DUP	**Date Received**	:	12/16/24
Sample Location	:		**Date Analyzed**	:	12/18/24 10:49
Sample Matrix	:	WATER	**Dilution Factor**	:	3.3
Analytical Method	:	121,2540D	**Analyst**	:	BAY
Lab File ID	:	WG2010721.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	100	16	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010839-1	**Date Collected**	: NA
Client ID	: WG2010839-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/18/24 14:01
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540D	**Analyst**	: BAY
Lab File ID	: WG2010839.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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010839-3	**Date Collected**	: 12/15/24 07:00
Client ID	: WG2010839-3 DUP	**Date Received**	: 12/16/24
Sample Location	:	**Date Analyzed**	: 12/18/24 14:01
Sample Matrix	: WATER	**Dilution Factor**	: 4
Analytical Method	: 121,2540D	**Analyst**	: BAY
Lab File ID	: WG2010839.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	130	20	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010839-4	**Date Collected**	: 12/16/24 07:00
Client ID	: WG2010839-4 DUP	**Date Received**	: 12/16/24
Sample Location	:	**Date Analyzed**	: 12/18/24 14:01
Sample Matrix	: WATER	**Dilution Factor**	: 4
Analytical Method	: 121,2540D	**Analyst**	: BAY
Lab File ID	: WG2010839.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	160	20	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2011007-1	**Date Collected**	: NA
Client ID	: WG2011007-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/18/24 20:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540D	**Analyst**	: REM
Lab File ID	: WG2011007.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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2011007-3	**Date Collected**	: 12/13/24 13:35
Client ID	: WG2011007-3 DUP	**Date Received**	: 12/13/24
Sample Location	:	**Date Analyzed**	: 12/18/24 20:48
Sample Matrix	: WATER	**Dilution Factor**	: 2
Analytical Method	: 121,2540D	**Analyst**	: REM
Lab File ID	: WG2011007.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	45.	10	NA	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2473538
Project Name	:	CORAM MATERIALS	Project Number	:	2232.0006Y005
Lab ID	:	WG2011007-4	Date Collected	:	12/14/24 07:00
Client ID	:	WG2011007-4 DUP	Date Received	:	12/16/24
Sample Location	:		Date Analyzed	:	12/18/24 20:48
Sample Matrix	:	WATER	Dilution Factor	:	4
Analytical Method	:	121,2540D	Analyst	:	REM
Lab File ID	:	WG2011007.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	140	20	NA	

Sample Raw Data

Wet Chemistry Gravimetric ELN

Printed: DEC-19-24 09:09:22

WorkGroup	WG2010721	**Temp In (C)**	105	**Temp In (C)**	105	**Temp In (C)**	105	**Temp In (C)**		**Temp In (C)**					
Title	Solids, Total Suspended	**Temp Out (C)**	105	**Temp Out (C)**	105	**Temp Out (C)**	105	**Temp Out (C)**		**Temp Out (C)**					
Method	SM2540D	**Time In**	18-DEC-24 11:43	**Time In**	18-DEC-24 20:28	**Time In**	18-DEC-24 23:40	**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	18-DEC-24 19:30	**Time Out**	18-DEC-24 23:16	**Time Out**	19-DEC-24 08:50	**Time Out**		**Time Out**					
		Evaporation	**Temp In (C)**	**Time In**								**LCS Lot #**	**TrueValue**	**Units**	
												86371	234.1	mg/l	

Sample #	Analysis Date	Analyst	Cup ID	Filter Lot	Tare Weight (gm)	Sample Volume (ml)	Net Weight (1) (gm)	Net Weight (2) (gm)	Net Weight (3) (gm)	Net Weight (4) (gm)	Net Weight (5) (gm)	Result mg/L	Dil	Comment
L2473256-01	18-DEC-24 10:49	BRYHANNAH YOUNG	4	18211399	.4345	850	.4523	.4521				20.71	1.2	
L2473257-01	18-DEC-24 10:49	BRYHANNAH YOUNG	5	18211399	.4327	750	.4534	.453				27.07	1.3	
L2473267-01	18-DEC-24 10:49	BRYHANNAH YOUNG	6	18211399	.4322	1000	.4342	.4342				2.00	1	
L2473268-01	18-DEC-24 10:49	BRYHANNAH YOUNG	7	18211399	.4309	1000	.4339	.4341				3.00	1	
L2473383-01	18-DEC-24 10:49	BRYHANNAH YOUNG	8	18211399	.434	1000	.4441	.4441				10.10	1	
L2473384-01	18-DEC-24 10:49	BRYHANNAH YOUNG	9	18211399	.4338	1000	.4377	.4381				3.90	1	
L2473385-01	18-DEC-24 10:49	BRYHANNAH YOUNG	10	18211399	.4336	100	.45	.4496				160.00	10	
L2473386-01	18-DEC-24 10:49	BRYHANNAH YOUNG	11	18211399	.4297	250	.4594	.459				117.20	4	
L2473387-01	18-DEC-24 10:49	BRYHANNAH YOUNG	12	18211399	.4255	100	.5375	.5365	.5363			1108.00	10	
L2473538-02	18-DEC-24 10:49	BRYHANNAH YOUNG	13	18211399	.4382	1000	.4527	.4525				14.30	1	
L2473538-04	18-DEC-24 10:49	BRYHANNAH YOUNG	14	18211399	.4327	1000	.4336	.4332				0.50	1	
L2473538-05	18-DEC-24 10:49	BRYHANNAH YOUNG	15	18211399	.4212	1000	.4242	.4241				2.90	1	
L2473566-02	18-DEC-24 10:49	BRYHANNAH YOUNG	16	18211399	.432	1000	.4674	.467				35.00	1	
L2473613-02	18-DEC-24 10:49	BRYHANNAH YOUNG	17	18211399	.4284	1000	.432	.4317				3.30	1	
L2473642-01	18-DEC-24 10:49	BRYHANNAH YOUNG	18	18211399	.4332	1000	.4394	.4392				6.00	1	
L2473654-01	18-DEC-24 10:49	BRYHANNAH YOUNG	19	18211399	.4333	950	.4863	.486				55.47	1.1	VOLUME
L2473789-01	18-DEC-24 10:49	BRYHANNAH YOUNG	20	18211399	.4293	300	.4612	.4616				106.33	3.3	MATRIX
L2473953-01	18-DEC-24 10:49	BRYHANNAH YOUNG	21	18211399	.4327	500	.582	.5808	.5804			295.40	2	MATRIX

Wet Chemistry Gravimetric ELN

Printed: DEC-19-24 09:09:22

WorkGroup	WG2010721	**Temp In (C)**	105	**Temp In (C)**	105	**Temp In (C)**	105	**Temp In (C)**		**Temp In (C)**			
Title	Solids, Total Suspended	**Temp Out (C)**	105	**Temp Out (C)**	105	**Temp Out (C)**	105	**Temp Out (C)**		**Temp Out (C)**			
Method	SM2540D	**Time In**	18-DEC-24 11:43	**Time In**	18-DEC-24 20:28	**Time In**	18-DEC-24 23:40	**Time In**		**Time In**			
Instrument	BALANCE#22	**Time Out**	18-DEC-24 19:30	**Time Out**	18-DEC-24 23:16	**Time Out**	19-DEC-24 08:50	**Time Out**		**Time Out**			
		Temp In (C)	**Time In**										

LCS Lot #	TrueValue	Units
86371	234.1	mg/l

Sample #	Analysis Date	Analyst	Cup ID			Sample Volume (ml)						Result mg/L	Dil	Comment
L2473953-02	18-DEC-24 10:49	BRYHANNAH YOUNG	22	18211399	.4321	600	.4976	.4972				108.50	1.7	MATRIX
L2473953-03	18-DEC-24 10:49	BRYHANNAH YOUNG	23	18211399	.4329	500	.5647	.5635	.5635			261.20	2	MATRIX
WG2010721-1	18-DEC-24 10:49	BRYHANNAH YOUNG	1	18211399	.4326	1000	.4325	.4324				-0.20	1	
WG2010721-2	18-DEC-24 10:49	BRYHANNAH YOUNG	24	18211399	.4251	250	.4808	.4802	.4799			219.20	4	
WG2010721-3	18-DEC-24 10:49	BRYHANNAH YOUNG	2	18211399	.4316	100	.5493	.5479	.5483			1163.00	10	
WG2010721-4	18-DEC-24 10:49	BRYHANNAH YOUNG	3	18211399	.4344	300	.4654	.4654				103.33	3.3	

Wet Chemistry Gravimetric ELN

Printed: DEC-19-24 12:44:46

WorkGroup	WG2011007	**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**	18-DEC-24 22:25	**Time In**	19-DEC-24 08:58	**Time In**		**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	19-DEC-24 08:33	**Time Out**	19-DEC-24 10:44	**Time Out**		**Time Out**		**Time Out**					
		Evaporation	**Temp In (C)**	**Time In**								**LCS Lot #** 86367		**TrueValue** 213	**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
L2473430-01	18-DEC-24 20:48	RENATA MUKHAMETZHANOVA	4	18211399	.4329	500	.4446	.4446				23.40	2	
L2473430-02	18-DEC-24 20:48	RENATA MUKHAMETZHANOVA	5	18211399	.4306	250	.4359	.4358				20.80	4	
L2473449-01	18-DEC-24 20:48	RENATA MUKHAMETZHANOVA	6	18211399	.4315	500	.4429	.4431				22.80	2	
L2473538-01	18-DEC-24 20:48	RENATA MUKHAMETZHANOVA	7	18211399	.4334	1000	.4351	.4354				1.70	1	
L2473566-01	18-DEC-24 20:48	RENATA MUKHAMETZHANOVA	8	18211399	.4317	500	.4526	.4527				41.80	2	
L2473566-03	18-DEC-24 20:48	RENATA MUKHAMETZHANOVA	9	18211399	.43	1000	.4707	.4704				40.40	1	
L2473566-04	18-DEC-24 20:48	RENATA MUKHAMETZHANOVA	10	18211399	.4279	1000	.4311	.4315				3.20	1	
L2473644-01	18-DEC-24 20:48	RENATA MUKHAMETZHANOVA	11	18211399	.4254	1000	.4367	.4368				11.30	1	
L2473674-01	18-DEC-24 20:48	RENATA MUKHAMETZHANOVA	12	18211399	.427	100	.4866	.4865				595.00	10	
L2473675-01	18-DEC-24 20:48	RENATA MUKHAMETZHANOVA	13	18211399	.4358	500	.4458	.4456				19.60	2	
L2473740-12	18-DEC-24 20:48	RENATA MUKHAMETZHANOVA	14	18211399	.4283	1000	.4331	.4328				4.50	1	
L2473740-13	18-DEC-24 20:48	RENATA MUKHAMETZHANOVA	15	18211399	.4255	1000	.4307	.4311				5.20	1	

Wet Chemistry Gravimetric ELN

Printed: DEC-19-24 12:44:46

WorkGroup	WG2011007	**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**	18-DEC-24 22:25	**Time In**	19-DEC-24 08:58	**Time In**		**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	19-DEC-24 08:33	**Time Out**	19-DEC-24 10:44	**Time Out**		**Time Out**		**Time Out**					
		Temp In (C)		**Time In**								**LCS Lot #**	**TrueValue**	**Units**	
												86367	213	mg/l	

Sample #	Analysis Date	Analyst	Cup ID			Sample Volume (ml)			Result mg/L	Dil	Comment
L2473740-14	18-DEC-24 20:48	RENATA MUKHAMETZHANOVA	16	18211399	.427	1000	.4322	.4324	5.20	1	
L2473740-15	18-DEC-24 20:48	RENATA MUKHAMETZHANOVA	17	18211399	.4255	1000	.43	.4303	4.50	1	
L2473740-16	18-DEC-24 20:48	RENATA MUKHAMETZHANOVA	18	18211399	.43	1000	.4355	.4359	5.50	1	
L2473789-02	18-DEC-24 20:48	RENATA MUKHAMETZHANOVA	19	18211399	.4249	250	.4503	.4502	101.20	4	
L2473789-03	18-DEC-24 20:48	RENATA MUKHAMETZHANOVA	20	18211399	.4296	250	.4644	.4647	139.20	4	
L2473800-01	18-DEC-24 20:48	RENATA MUKHAMETZHANOVA	21	18211399	.4215	1000	.4472	.4472	25.70	1	inf
L2473800-02	18-DEC-24 20:48	RENATA MUKHAMETZHANOVA	22	18211399	.4265	1000	.4289	.4286	2.10	1	eff
L2474371-02	18-DEC-24 20:48	RENATA MUKHAMETZHANOVA	23	18211399	.4273	250	.4435	.4435	64.80	4	
WG2011007-1	18-DEC-24 20:48	RENATA MUKHAMETZHANOVA	1	18211399	.4328	1000	.4331	.4333	0.30	1	
WG2011007-2	18-DEC-24 20:48	RENATA MUKHAMETZHANOVA	24	18211399	.4275	250	.4765	.4767	196.00	4	
WG2011007-3	18-DEC-24 20:48	RENATA MUKHAMETZHANOVA	2	18211399	.4312	500	.4539	.4537	45.00	2	
WG2011007-4	18-DEC-24 20:48	RENATA MUKHAMETZHANOVA	3	18211399	.4212	250	.4562	.456	139.20	4	

Wet Chemistry Gravimetric ELN

Printed: DEC-19-24 13:09:13

WorkGroup	WG2010839	**Temp In (C)**	105	**Temp In (C)**	105	**Temp In (C)**	105	**Temp In (C)**	105	**Temp In (C)**					
Title	Solids, Total Suspended	**Temp Out (C)**	105	**Temp Out (C)**	105	**Temp Out (C)**	105	**Temp Out (C)**	105	**Temp Out (C)**					
Method	SM2540D	**Time In**	18-DEC-24 14:51	**Time In**	18-DEC-24 20:35	**Time In**	19-DEC-24 00:09	**Time In**	19-DEC-24 08:11	**Time In**					
Instrument	BALANCE#22	**Time Out**	18-DEC-24 19:30	**Time Out**	18-DEC-24 23:40	**Time Out**	19-DEC-24 07:36	**Time Out**	19-DEC-24 10:45	**Time Out**					

		Evaporation	**Temp In (C)**	**Time In**								**LCS Lot #**	**TrueValue**	**Units**	
												86371	234.1	mg/l	

Sample #	Analysis Date	Analyst	Cup ID	Filter Lot	Tare Weight (gm)	Sample Volume (ml)	Net Weight (1) (gm)	Net Weight (2) (gm)	Net Weight (3) (gm)	Net Weight (4) (gm)	Net Weight (5) (gm)	Result mg/L	Dil	Comment
L2473538-03	18-DEC-24 14:01	BRYHANNAH YOUNG	4	18211399	.4318	1000	.4343	.4346				2.50	1	
L2473639-01	18-DEC-24 14:01	BRYHANNAH YOUNG	5	18211399	.4307	1000	.4853	.484	.4811	.4807		50.00	1	
L2473639-02	18-DEC-24 14:01	BRYHANNAH YOUNG	6	18211399	.4313	1000	.5005	.4994	.498	.4982		66.70	1	
L2473639-03	18-DEC-24 14:01	BRYHANNAH YOUNG	7	18211399	.4309	1000	.5222	.521	.518	.5177		86.80	1	
L2473639-04	18-DEC-24 14:01	BRYHANNAH YOUNG	8	18211399	.4349	1000	.5172	.5157	.5146	.515		79.70	1	
L2473639-05	18-DEC-24 14:01	BRYHANNAH YOUNG	9	18211399	.4318	1000	.5128	.5113	.5106	.5105		78.70	1	
L2473639-06	18-DEC-24 14:01	BRYHANNAH YOUNG	10	18211399	.4326	1000	.5177	.5164	.5151	.5153		82.50	1	
L2473740-01	18-DEC-24 14:01	BRYHANNAH YOUNG	11	18211399	.4347	1000	.4378	.4376				2.90	1	
L2473740-02	18-DEC-24 14:01	BRYHANNAH YOUNG	12	18211399	.4317	1000	.4636	.4632				31.50	1	
L2473740-03	18-DEC-24 14:01	BRYHANNAH YOUNG	13	18211399	.4347	1000	.4462	.4461				11.40	1	
L2473740-04	18-DEC-24 14:01	BRYHANNAH YOUNG	14	18211399	.4352	1000	.4389	.4385				3.30	1	
L2473740-05	18-DEC-24 14:01	BRYHANNAH YOUNG	15	18211399	.4335	1000	.4372	.4369				3.40	1	
L2473740-06	18-DEC-24 14:01	BRYHANNAH YOUNG	16	18211399	.4337	1000	.4381	.4383				4.40	1	
L2473740-07	18-DEC-24 14:01	BRYHANNAH YOUNG	17	18211399	.4322	1000	.4371	.437				4.80	1	
L2473740-08	18-DEC-24 14:01	BRYHANNAH YOUNG	18	18211399	.4285	1000	.4341	.4343				5.60	1	
L2473740-09	18-DEC-24 14:01	BRYHANNAH YOUNG	19	18211399	.4327	1000	.4372	.437				4.30	1	
L2473740-10	18-DEC-24 14:01	BRYHANNAH YOUNG	20	18211399	.433	1000	.434	.4343				1.00	1	
L2473740-11	18-DEC-24 14:01	BRYHANNAH YOUNG	21	18211399	.4311	1000	.4309	.4311				-0.20	1	field blank

Wet Chemistry Gravimetric ELN

Printed: DEC-19-24 13:09:13

WorkGroup	WG2010839	**Temp In (C)**	105	**Temp In (C)**	105	**Temp In (C)**	105	**Temp In (C)**	105	**Temp In (C)**					
Title	Solids, Total Suspended	**Temp Out (C)**	105	**Temp Out (C)**	105	**Temp Out (C)**	105	**Temp Out (C)**	105	**Temp Out (C)**					
Method	SM2540D	**Time In**	18-DEC-24 14:51	**Time In**	18-DEC-24 20:35	**Time In**	19-DEC-24 00:09	**Time In**	19-DEC-24 08:11	**Time In**					
Instrument	BALANCE#22	**Time Out**	18-DEC-24 19:30	**Time Out**	18-DEC-24 23:40	**Time Out**	19-DEC-24 07:36	**Time Out**	19-DEC-24 10:45	**Time Out**					
		Temp In (C)		**Time In**						**LCS Lot #**	86371	**TrueValue**	234.1	**Units**	mg/l

Sample #	Analysis Date	Analyst	Cup ID			Sample Volume (ml)					Result mg/L	Dil	Comment
L2473789-04	18-DEC-24 14:01	BRYHANNAH YOUNG	22	18211399	.4273	250	.4482	.4474	.4478		80.40	4	MATRIX
L2473789-05	18-DEC-24 14:01	BRYHANNAH YOUNG	23	18211399	.4267	250	.4593	.4591			129.60	4	MATRIX
WG2010839-1	18-DEC-24 14:01	BRYHANNAH YOUNG	1	18211399	.4328	1000	.4337	.434			0.90	1	
WG2010839-2	18-DEC-24 14:01	BRYHANNAH YOUNG	24	18211399	.4266	250	.4859	.4859			237.20	4	
WG2010839-3	18-DEC-24 14:01	BRYHANNAH YOUNG	2	18211399	.434	250	.4659	.4656			126.40	4	
WG2010839-4	18-DEC-24 14:01	BRYHANNAH YOUNG	3	18211399	.4325	250	.4721	.4717			156.80	4	

Quality Control

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 12/18/24 10:49
Dup Sample ID	: WG2010721-3	**DUP Analysis Date**	: 12/18/24 10:49

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Suspended	1100	1200	9	32

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 12/18/24 10:49
Dup Sample ID	: WG2010721-4	**DUP Analysis Date**	: 12/18/24 10:49

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Suspended	110	100	10	32

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 12/18/24 14:01
Dup Sample ID	: WG2010839-3	**DUP Analysis Date**	: 12/18/24 14:01

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Suspended	80	130	48 Q	32

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 12/18/24 14:01
Dup Sample ID	: WG2010839-4	**DUP Analysis Date**	: 12/18/24 14:01

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Suspended	130	160	21	32

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 12/18/24 20:48
Dup Sample ID	: WG2011007-3	**DUP Analysis Date**	: 12/18/24 20:48

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Suspended	42	45.	7	32

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 12/18/24 20:48
Dup Sample ID	: WG2011007-4	**DUP Analysis Date**	: 12/18/24 20:48

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Suspended	140	140	0	32

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2010721-2	**LCS Analysis Date**	: 12/18/24 10:49
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Solids, Total Suspended	**234.**	**220.**	**94.**					**80-120**	**32**

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2010839-2	**LCS Analysis Date**	: 12/18/24 14:01
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Solids, Total Suspended	**234.**	**240.**	**101.**					**80-120**	**32**

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2011007-2	**LCS Analysis Date**	: 12/18/24 20:48
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	213.	200.	92.					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**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-01	**Date Collected**	:	12/13/24 08:20
Client ID	:	PZ-5	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 14:00
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	44,300.0	**Analyst**	:	CVN,
Lab File ID	:	WG2010901	**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	0.033	0.050	0.013	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-02	**Date Collected**	:	12/13/24 09:45
Client ID	:	MW-5D	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 14:12
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	44,300.0	**Analyst**	:	CVN,
Lab File ID	:	WG2010901	**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	0.061	0.050	0.013	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-03	**Date Collected**	:	12/13/24 11:20
Client ID	:	SCDOH-DR	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 14:24
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	44,300.0	**Analyst**	:	CVN,
Lab File ID	:	WG2010901	**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	0.045	0.050	0.013	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2473538
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2473538-04	**Date Collected**	:	12/13/24 12:43
Client ID	:	MW-10S	**Date Received**	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	12/18/24 14:36
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	44,300.0	**Analyst**	:	CVN,
Lab File ID	:	WG2010901	**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	0.031	0.050	0.013	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2473538
Project Name	:	CORAM MATERIALS	Project Number	:	2232.0006Y005
Lab ID	:	L2473538-05	Date Collected	:	12/13/24 12:30
Client ID	:	MW-10D	Date Received	:	12/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	:	12/18/24 14:48
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	44,300.0	Analyst	:	CVN,
Lab File ID	:	WG2010901	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	0.046	0.050	0.013	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010901-1	**Date Collected**	: NA
Client ID	: WG2010901-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/18/24 09:58
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG2010901	**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**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2010901-4	**Date Collected**	: 12/16/24 10:50
Client ID	: WG2010901-4 DUP	**Date Received**	: 12/16/24
Sample Location	:	**Date Analyzed**	: 12/18/24 19:02
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG2010901	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

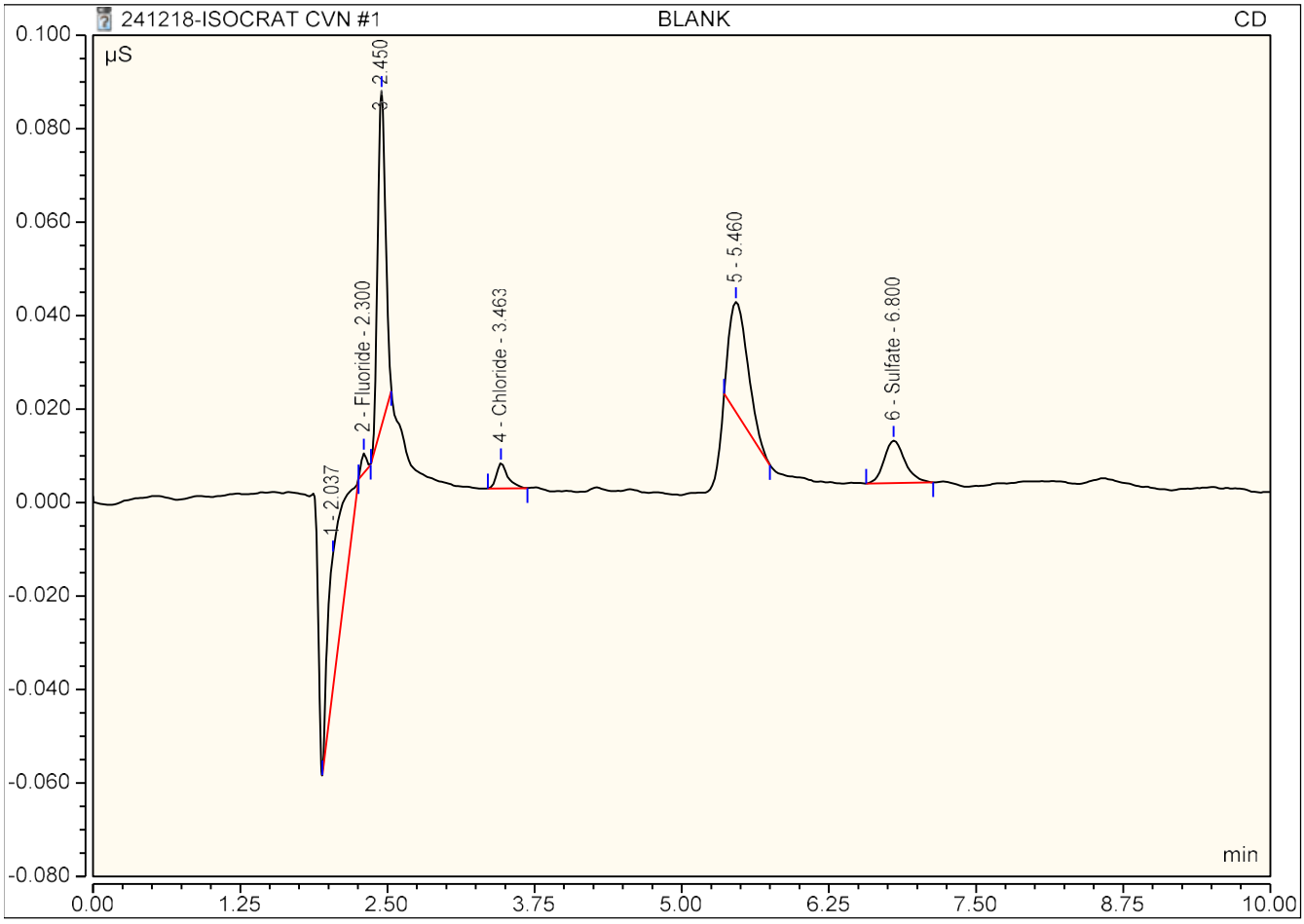
		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.031	0.050	0.013	J

Sample Raw Data

Peak Integration Report

Sample Name:	**BLANK**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**11-Dec-2024 / 12:38**	*Run Time:*	**10.00**

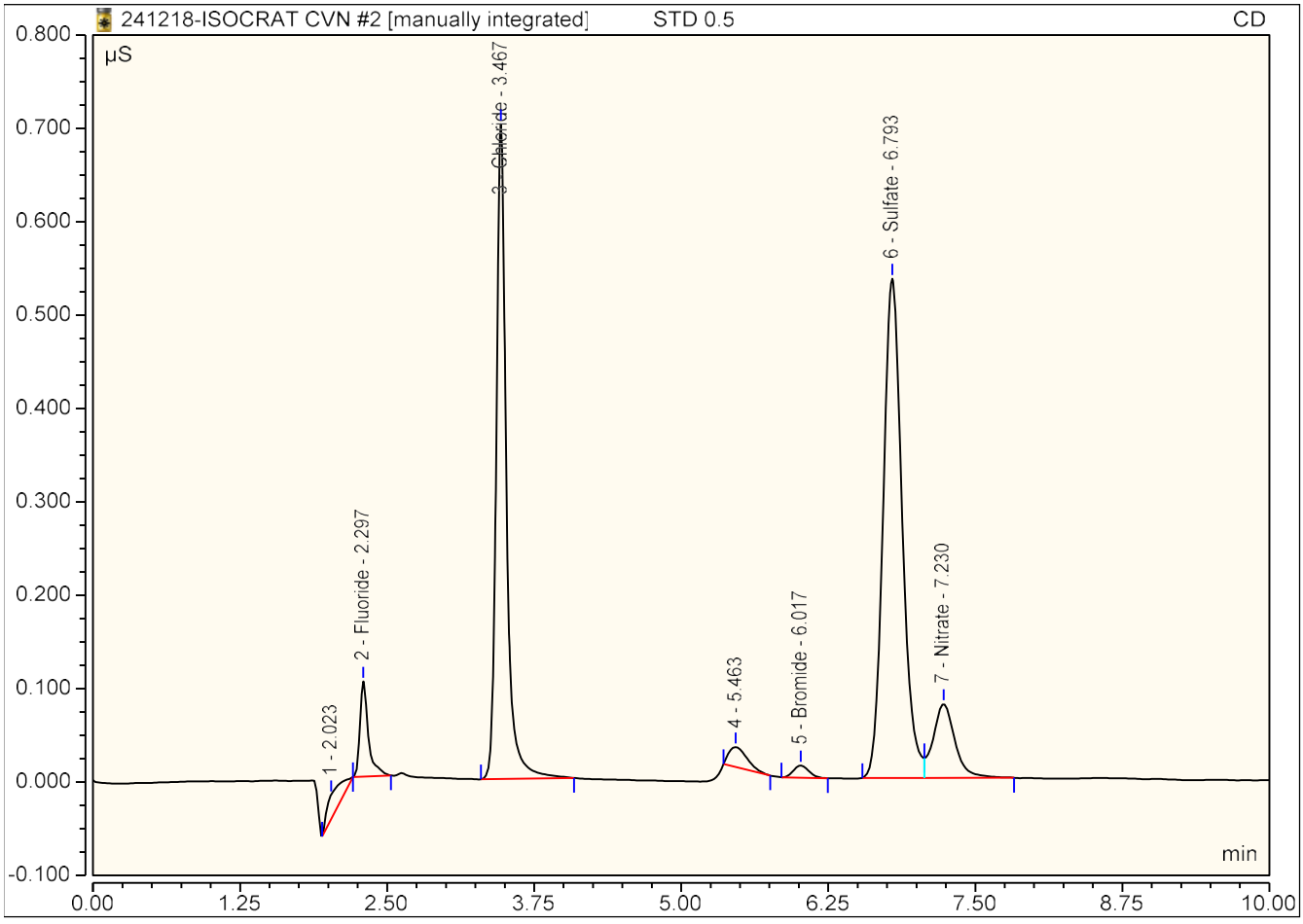
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.000	0.004	0.0220
4	3.46	**Chloride**	BMB	0.001	0.005	0.1192
6	6.80	**Sulfate**	BMB	0.002	0.009	0.2070
TOTAL:				0.00	0.02	0.35



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**

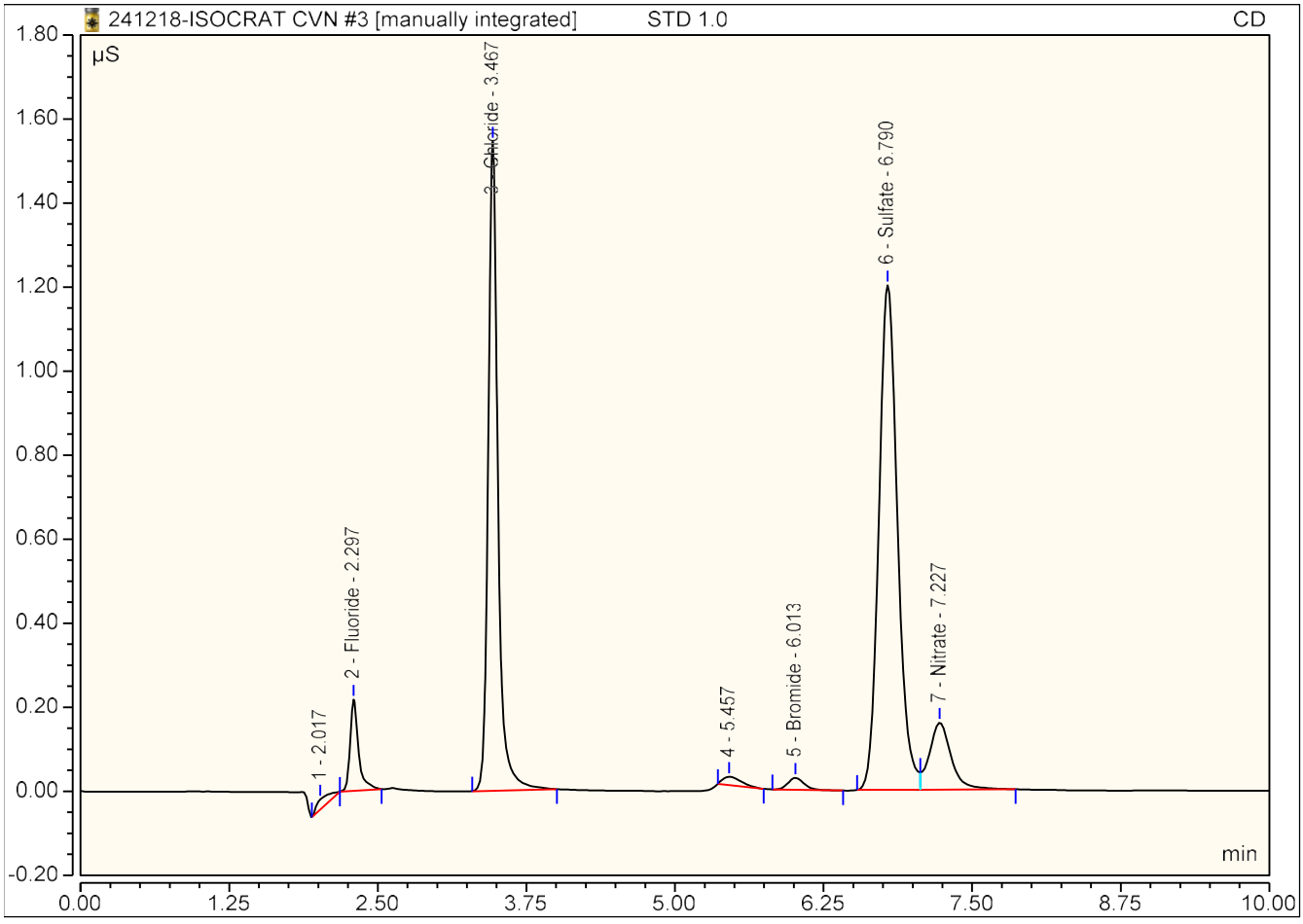
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.009	0.102	0.0378
3	3.47	**Chloride**	BMB*	0.070	0.701	0.3031
5	6.02	**Bromide**	BMB	0.002	0.013	0.0465
6	6.79	**Sulfate**	BM *	0.100	0.535	0.5516
7	7.23	**Nitrate**	MB*	0.017	0.079	0.0441
TOTAL:				0.20	1.43	0.98



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**

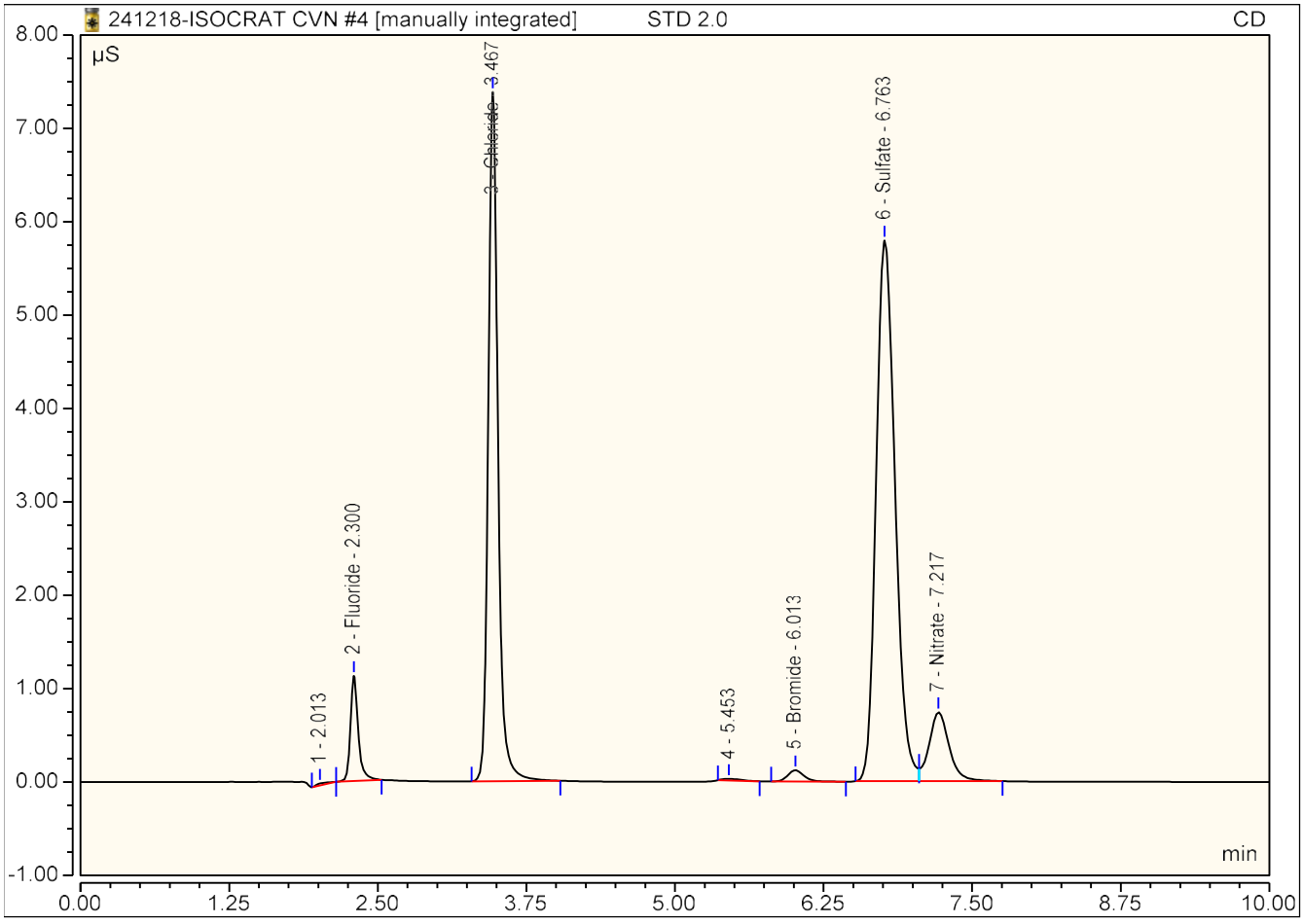
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.018	0.217	0.0550
3	3.47	**Chloride**	BMB*	0.148	1.545	0.5119
5	6.01	**Bromide**	BMB	0.004	0.028	0.0677
6	6.79	**Sulfate**	BM *	0.218	1.201	0.9678
7	7.23	**Nitrate**	MB*	0.034	0.159	0.0627
TOTAL:				0.42	3.15	1.67



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**

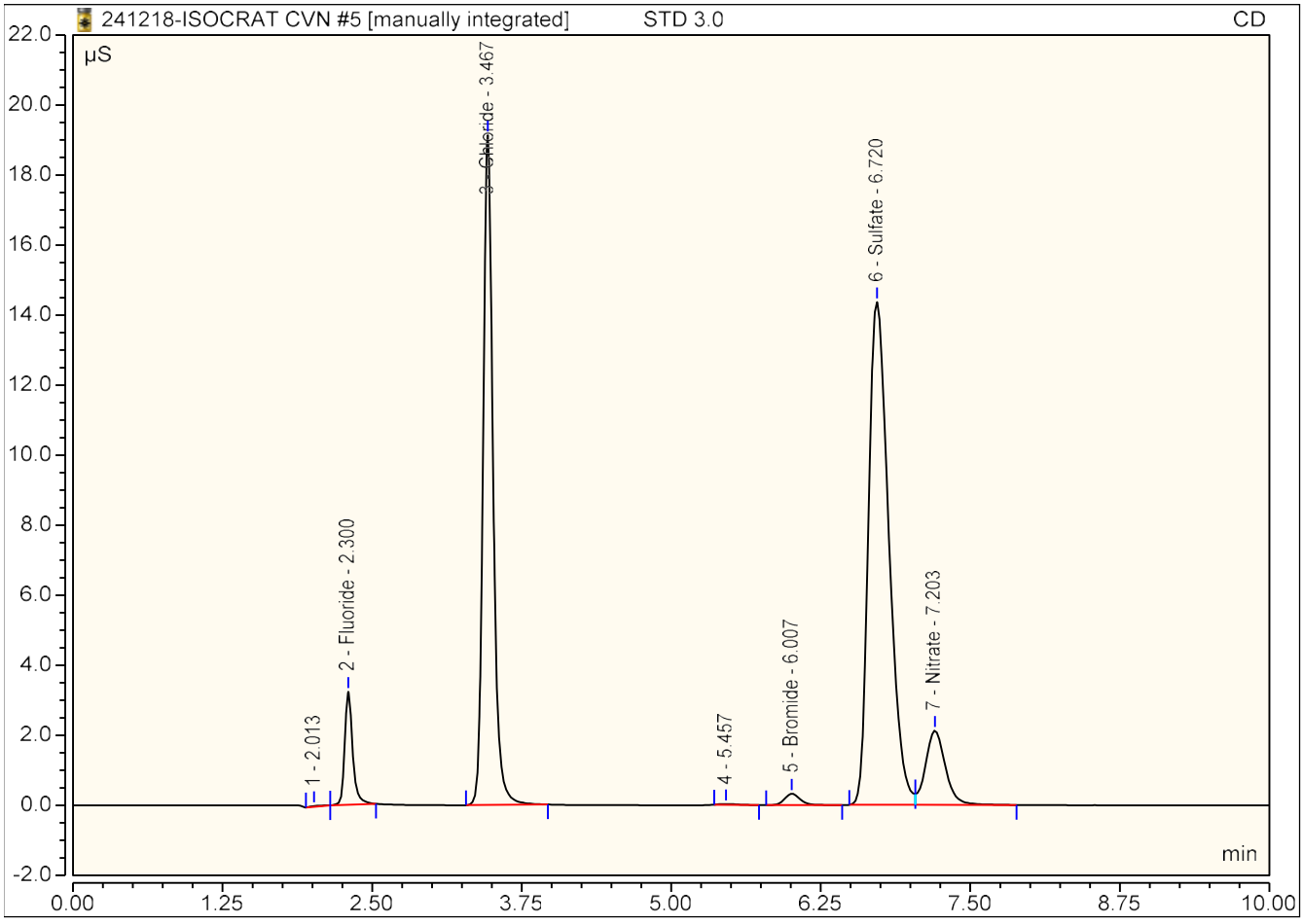
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.086	1.128	0.1840
3	3.47	**Chloride**	BMB*	0.706	7.380	1.9973
5	6.01	**Bromide**	BMB	0.019	0.121	0.1922
6	6.76	**Sulfate**	BM *	1.068	5.791	3.9537
7	7.22	**Nitrate**	MB*	0.145	0.739	0.1855
TOTAL:				2.02	15.16	6.51



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**

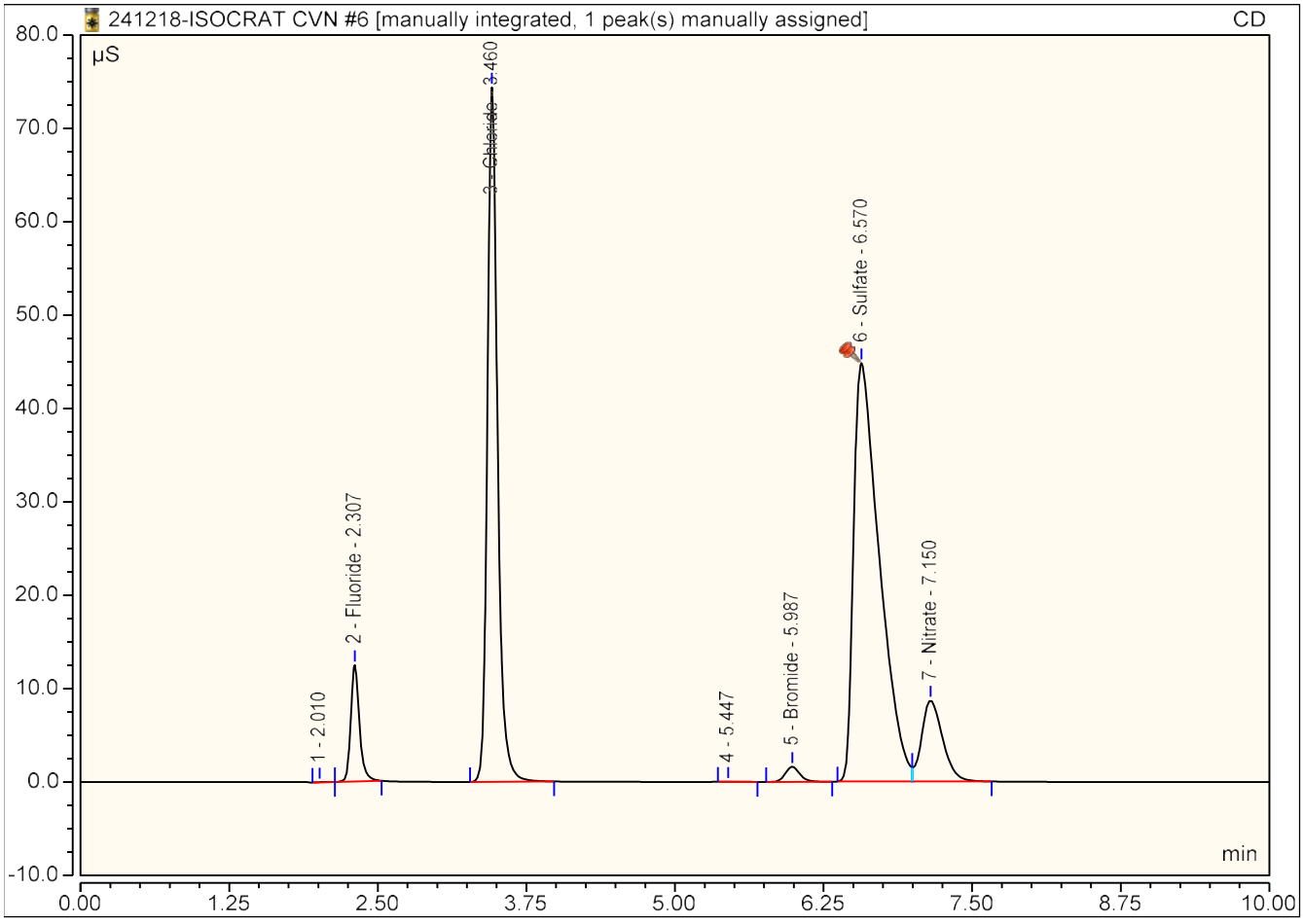
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.246	3.225	0.4887
3	3.47	**Chloride**	BMB*	1.850	19.128	5.0437
5	6.01	**Bromide**	BMB	0.050	0.327	0.4581
6	6.72	**Sulfate**	BM *	2.821	14.357	10.1180
7	7.20	**Nitrate**	MB*	0.406	2.120	0.4758
TOTAL:				5.37	39.16	16.58



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**

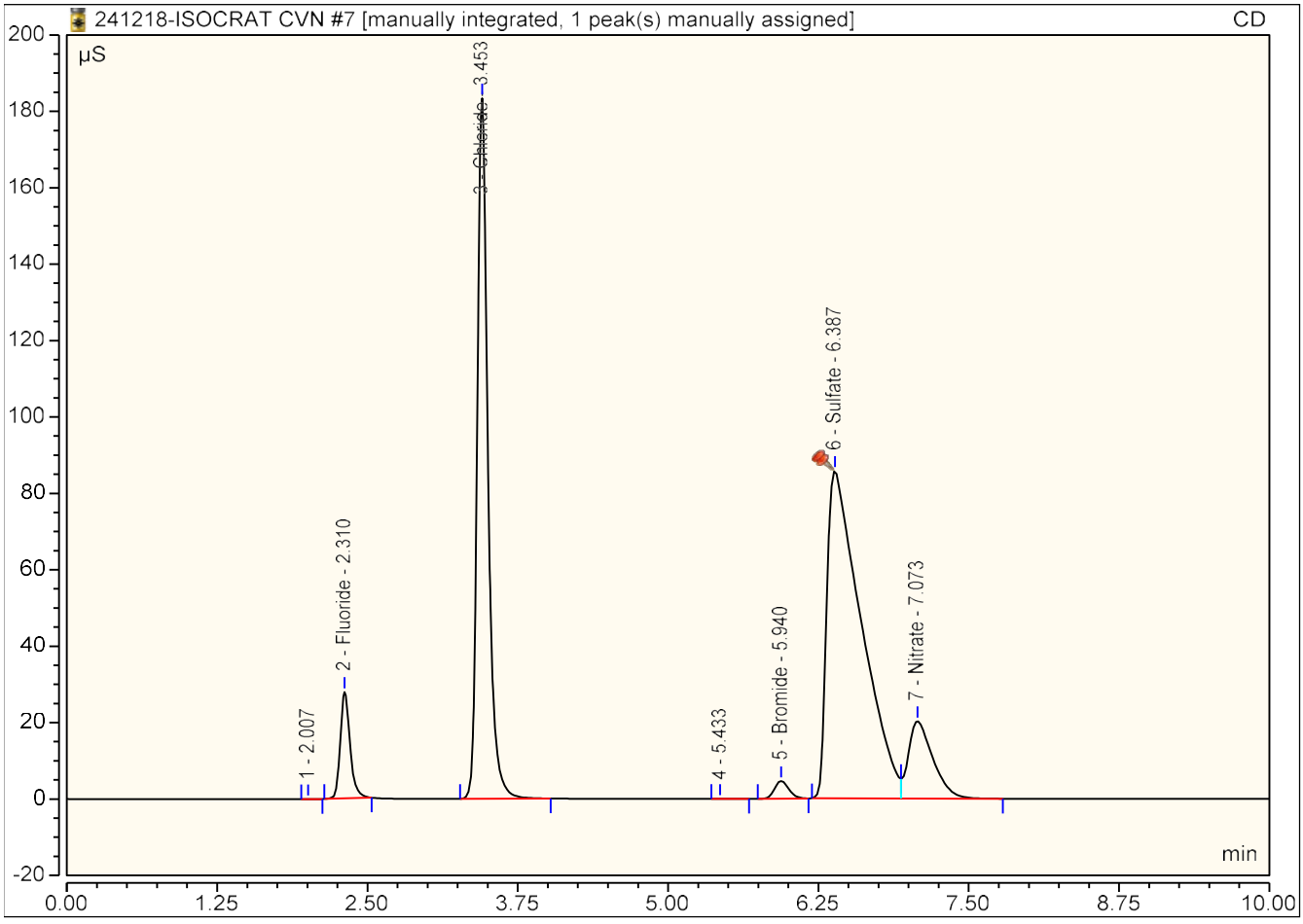
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	1.049	12.466	2.0130
3	3.46	**Chloride**	BMB*	7.404	74.364	19.8311
5	5.99	**Bromide**	BMB	0.232	1.623	2.0106
6	6.57	**Sulfate**	BM *^	11.282	44.815	39.8646
7	7.15	**Nitrate**	MB*	1.787	8.674	2.0070
TOTAL:				21.75	141.94	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



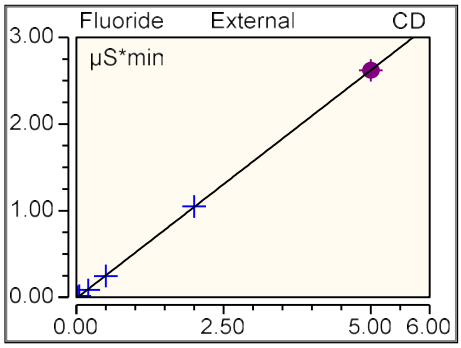
Calibration Batch Report

Sequence:	**241218-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**

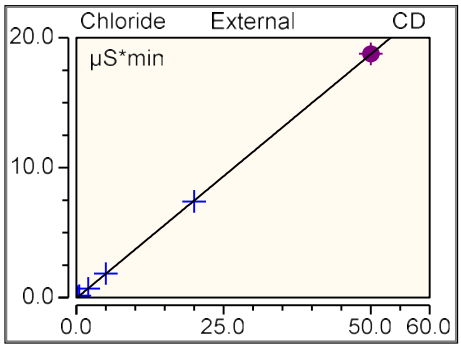
Calibration Summary

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

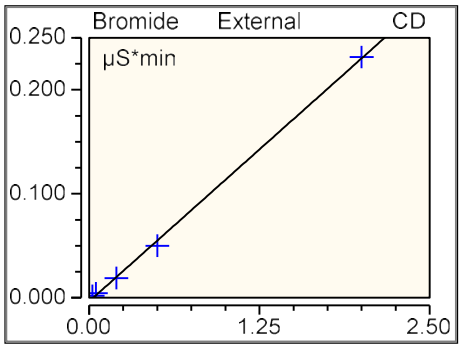
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Fluoride	Fluoride	Fluoride	Fluoride
STD 0.5	2.297	0.0085	0.102	0.038
STD 1.0	2.297	0.0176	0.217	0.055
STD 2.0	2.300	0.0855	1.128	0.184
STD 3.0	2.300	0.2460	3.225	0.489
STD 4.0	2.307	1.0487	12.466	2.013
STD 5.0	2.310	2.6198	27.875	4.996
Average	2.302			
Rel. Std. Dev.	0.238 %			



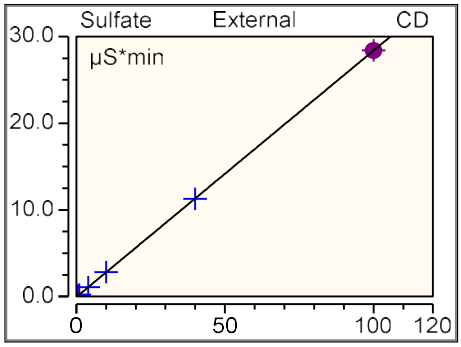
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Chloride	Chloride	Chloride	Chloride
STD 0.5	3.467	0.0696	0.701	0.303
STD 1.0	3.467	0.1481	1.545	0.512
STD 2.0	3.467	0.7060	7.380	1.997
STD 3.0	3.467	1.8503	19.128	5.044
STD 4.0	3.460	7.4045	74.364	19.831
STD 5.0	3.453	18.7597	183.384	50.063
Average	3.463			
Rel. Std. Dev.	0.161 %			



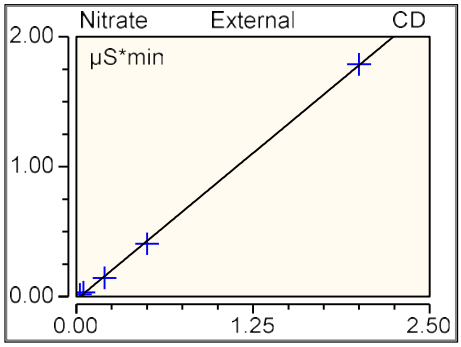
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Bromide	Bromide	Bromide	Bromide
STD 0.5	6.017	0.0020	0.013	0.046
STD 1.0	6.013	0.0045	0.028	0.068
STD 2.0	6.013	0.0190	0.121	0.192
STD 3.0	6.007	0.0501	0.327	0.458
STD 4.0	5.987	0.2315	1.623	2.011
STD 5.0	5.940	0.6417	4.628	5.519
Average	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 %			



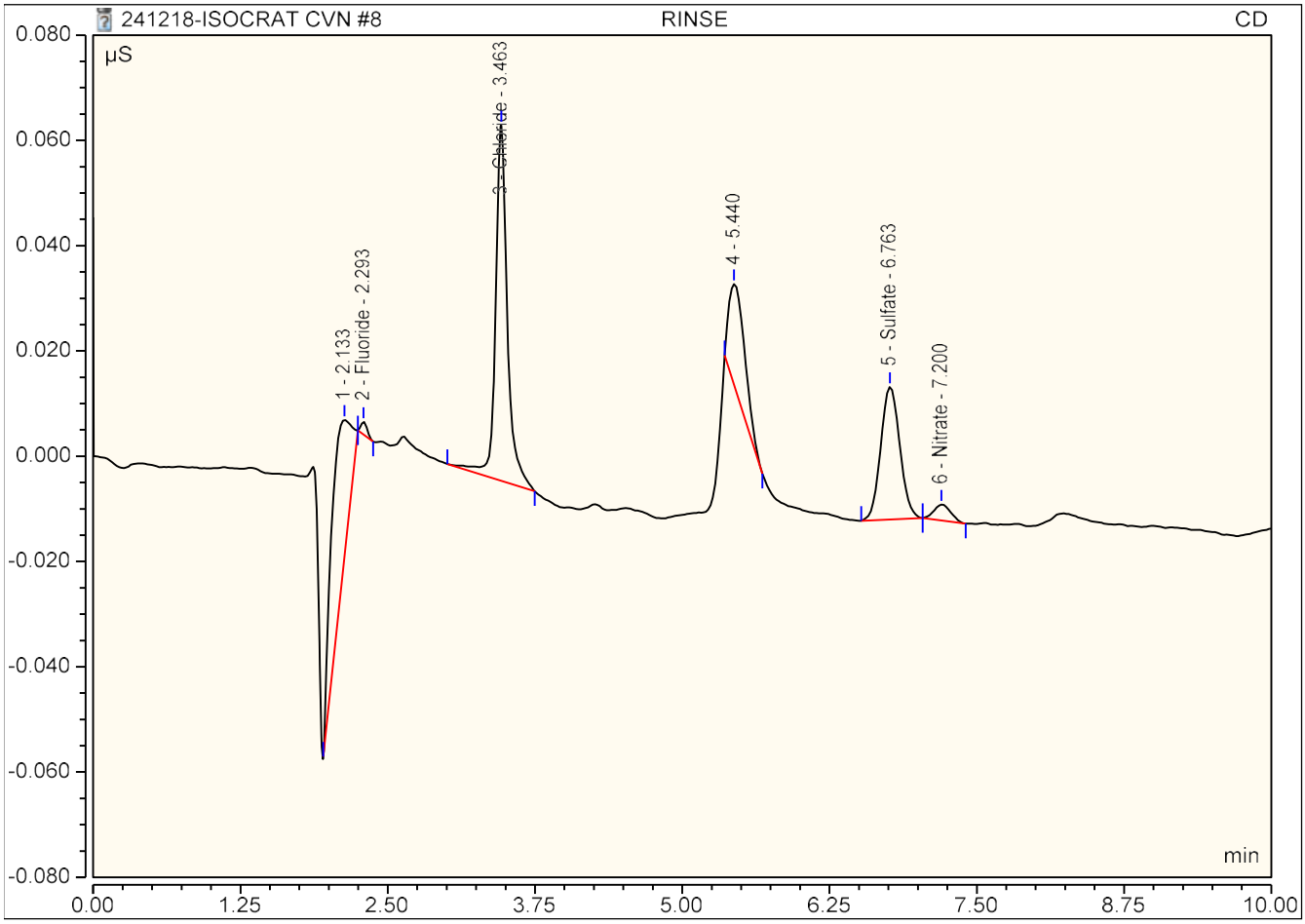
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Nitrate	Nitrate	Nitrate	Nitrate
STD 0.5	7.230	0.0170	0.079	0.044
STD 1.0	7.227	0.0338	0.159	0.063
STD 2.0	7.217	0.1446	0.739	0.186
STD 3.0	7.203	0.4063	2.120	0.476
STD 4.0	7.150	1.7872	8.674	2.007
STD 5.0	7.073	4.7799	20.222	5.325
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:	**18-Dec-2024 / 08:34**	*Run Time:*	**10.00**

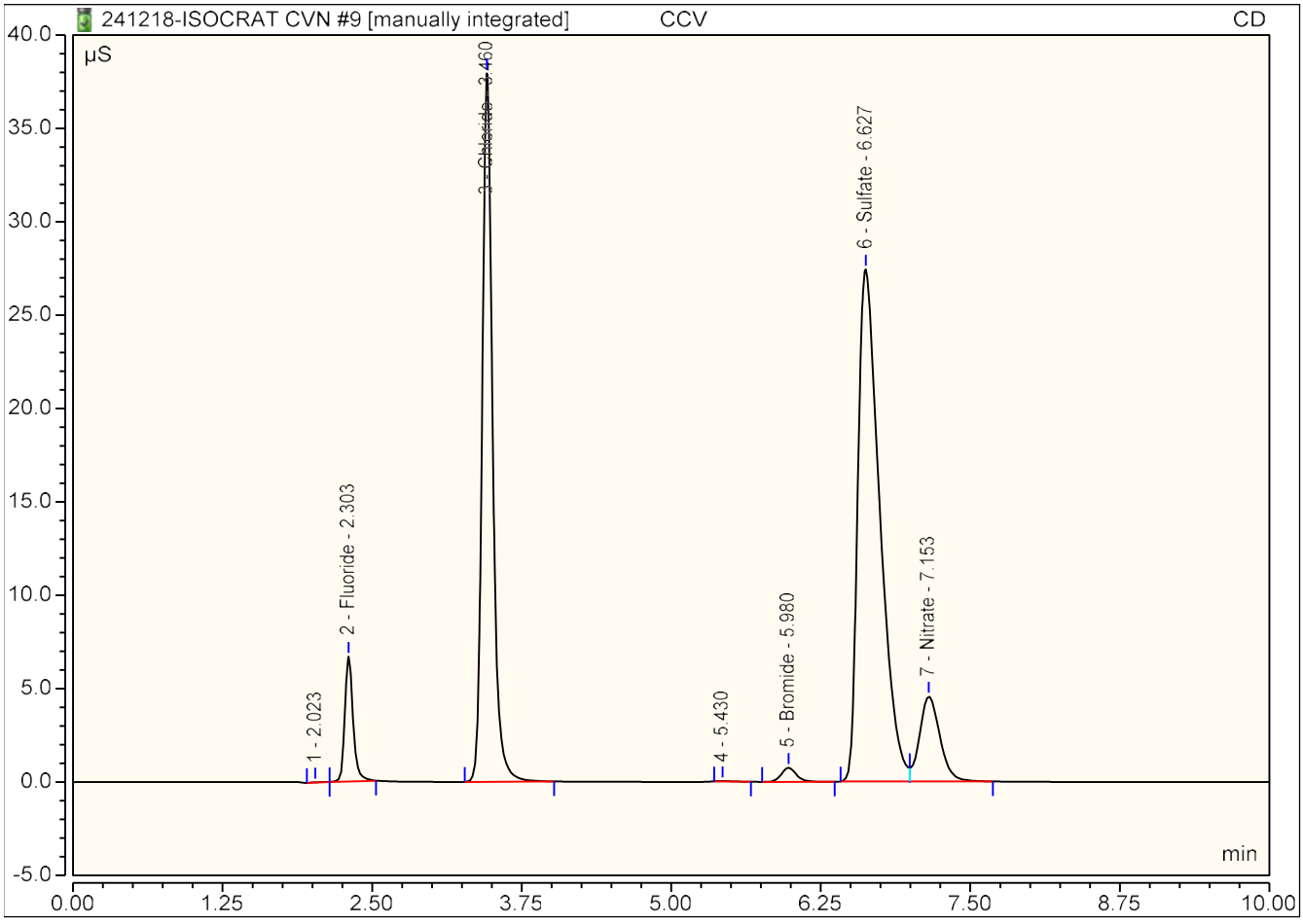
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.000	0.002	0.0219
3	3.46	**Chloride**	BMB	0.008	0.068	0.1383
5	6.76	**Sulfate**	BMB	0.005	0.025	0.2171
6	7.20	**Nitrate**	BMB	0.001	0.003	0.0258
TOTAL:				0.01	0.10	0.40



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 / 08:46**	*Run Time:*	**10.00**

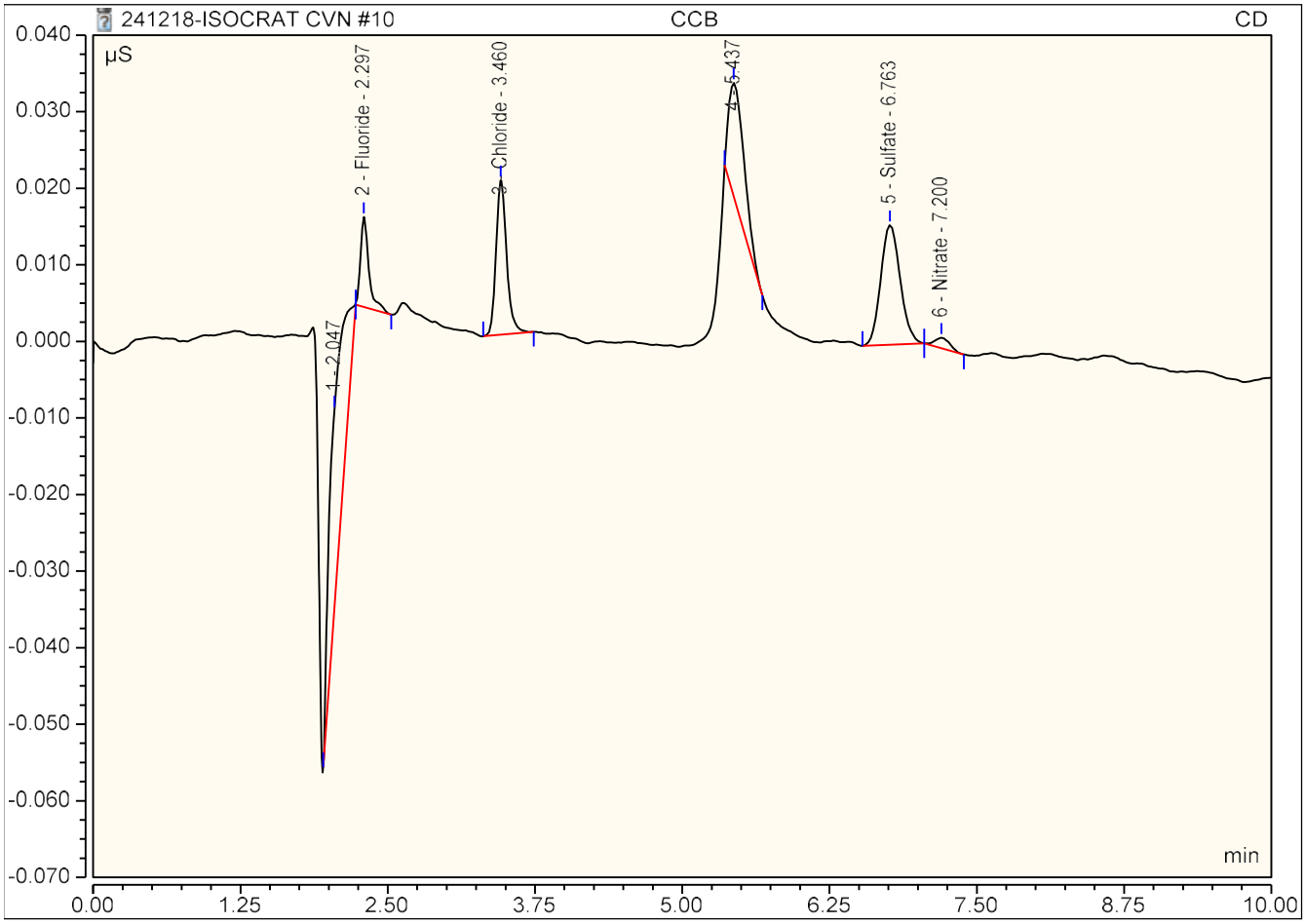
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.531	6.688	1.0291
3	3.46	**Chloride**	BMB*	3.844	37.939	10.3519
5	5.98	**Bromide**	BMB	0.112	0.754	0.9842
6	6.63	**Sulfate**	BM *	5.821	27.414	20.6638
7	7.15	**Nitrate**	MB*	0.897	4.549	1.0203
TOTAL:				11.20	77.34	34.05



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 / 08:58**	*Run Time:*	**10.00**

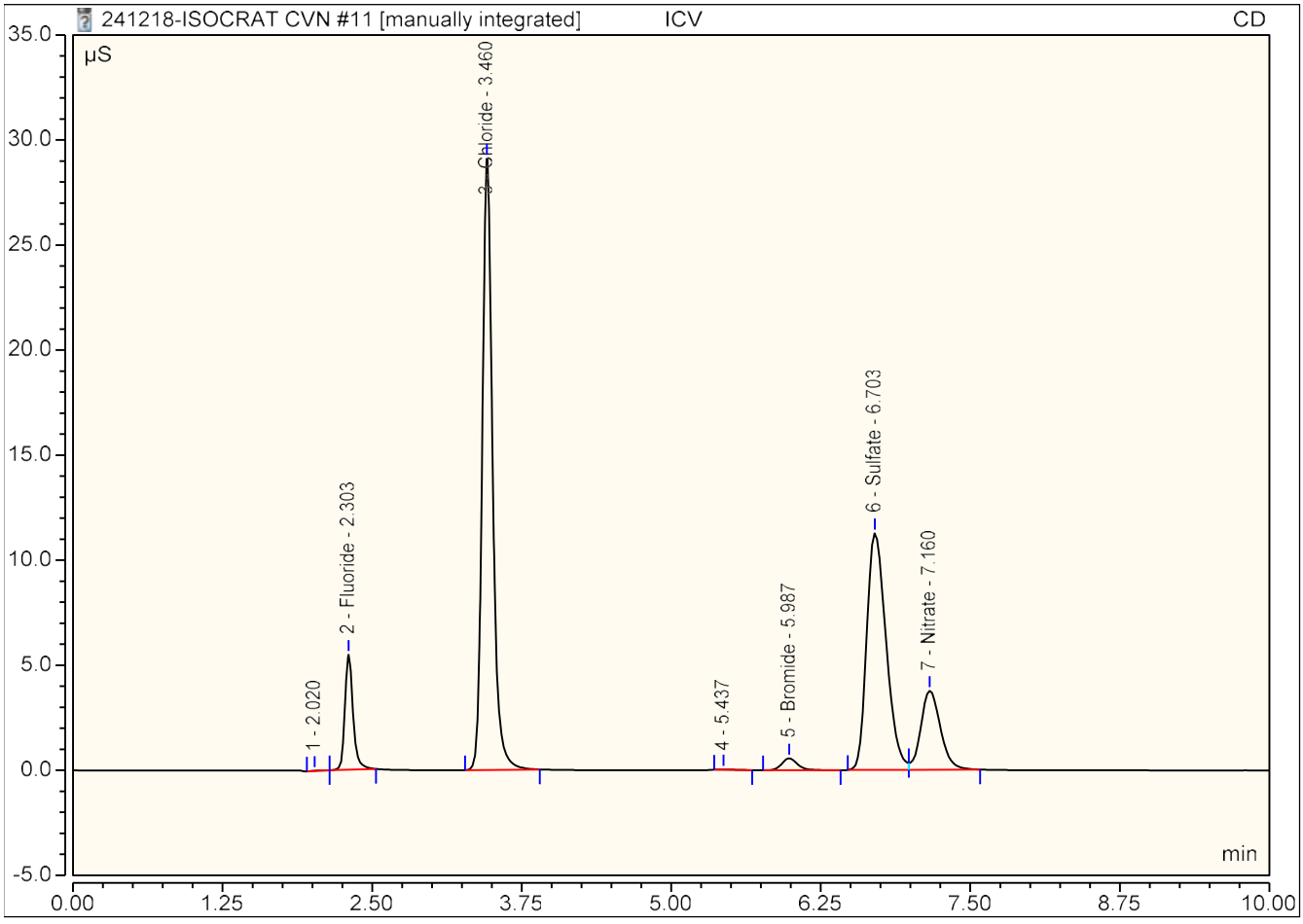
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.001	0.012	0.0234
3	3.46	**Chloride**	BMB	0.002	0.020	0.1232
5	6.76	**Sulfate**	BMB	0.003	0.016	0.2109
6	7.20	**Nitrate**	BMB	0.000	0.001	0.0255
TOTAL:				0.01	0.05	0.38



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:	**18-Dec-2024 / 09:10**	*Run Time:*	**10.00**

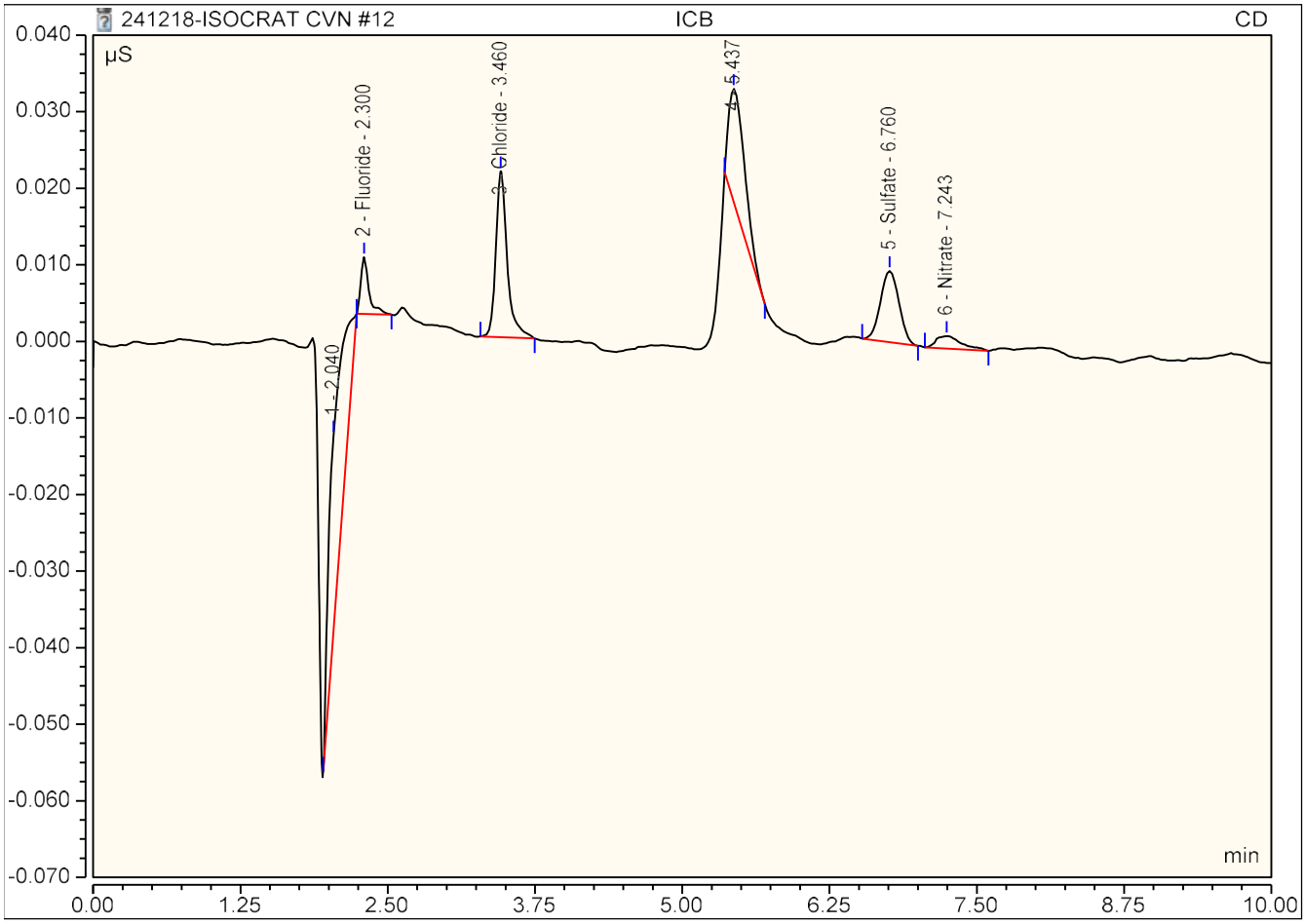
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.430	5.481	0.8387
3	3.46	**Chloride**	BMB*	2.927	29.104	7.9095
5	5.99	**Bromide**	BMB	0.087	0.570	0.7698
6	6.70	**Sulfate**	BM *	2.115	11.266	7.6369
7	7.16	**Nitrate**	MB*	0.712	3.761	0.8143
TOTAL:				6.27	50.18	17.97



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:	**18-Dec-2024 / 09:22**	*Run Time:*	**10.00**

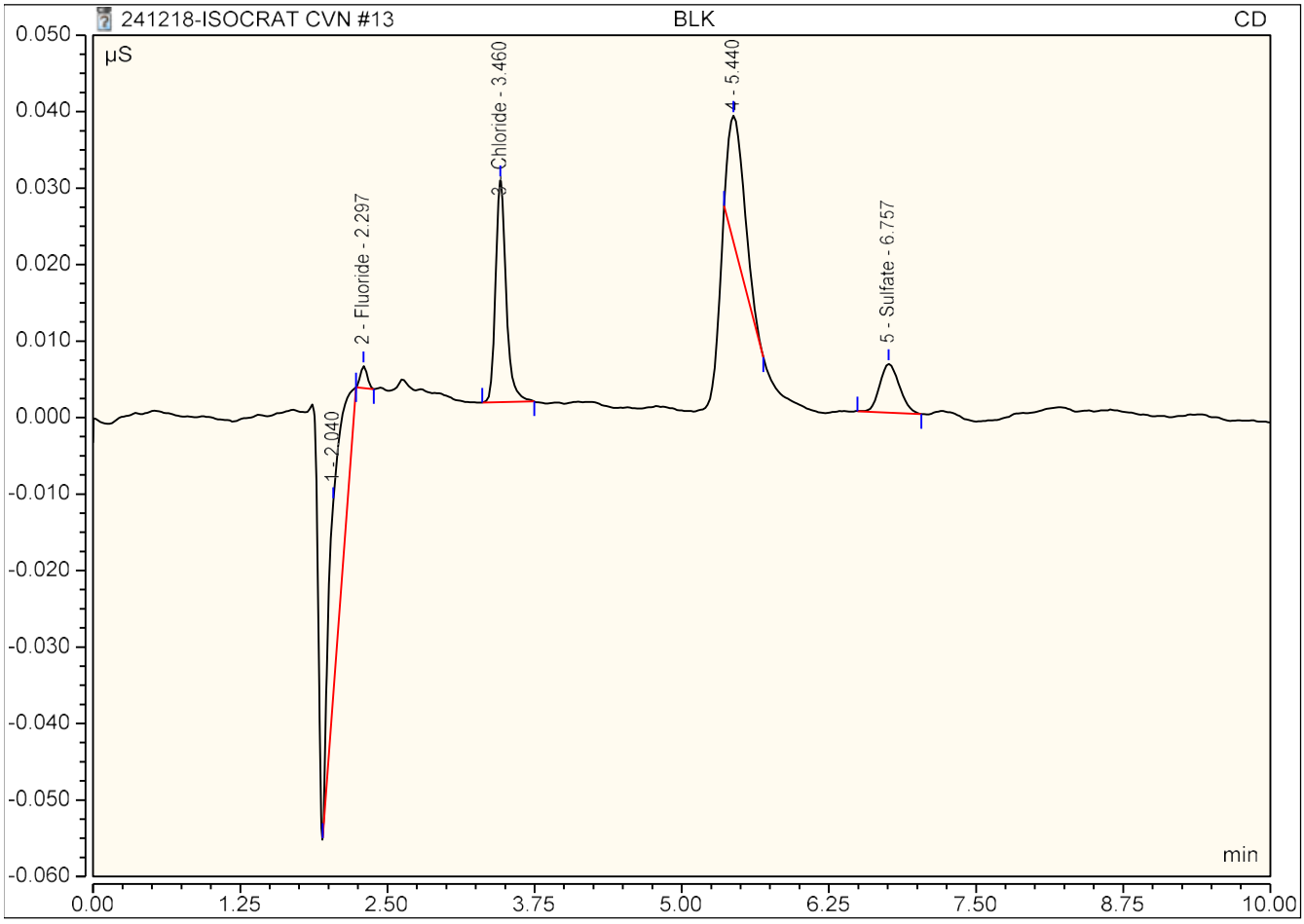
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.001	0.007	0.0228
3	3.46	**Chloride**	BMB	0.002	0.022	0.1241
5	6.76	**Sulfate**	BMB	0.002	0.009	0.2064
6	7.24	**Nitrate**	BMB	0.000	0.002	0.0257
TOTAL:				0.01	0.04	0.38



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:	**18-Dec-2024 / 09:34**	*Run Time:*	**10.00**

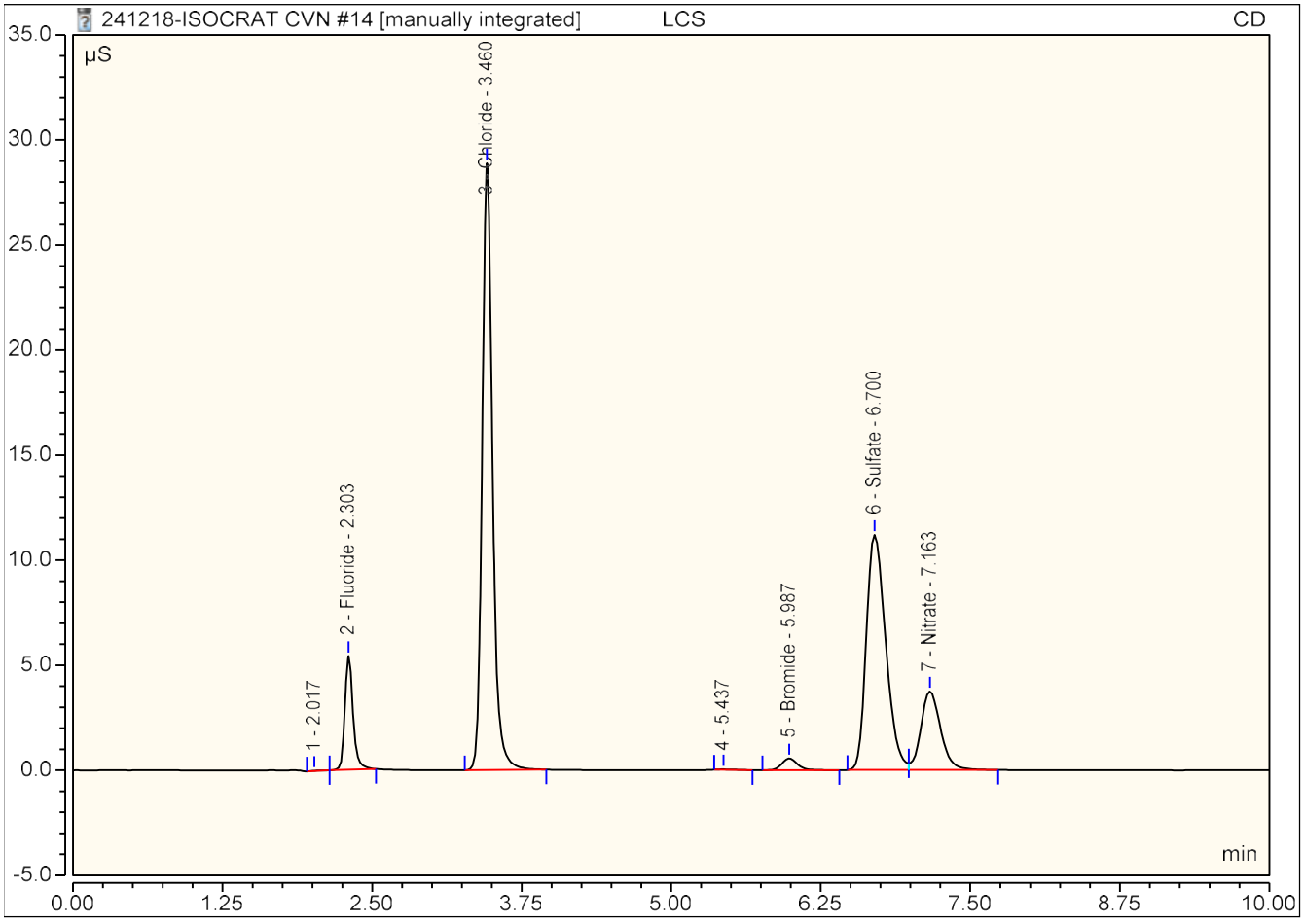
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.000	0.003	0.0220
3	3.46	**Chloride**	BMB	0.003	0.029	0.1256
5	6.76	**Sulfate**	BMB	0.001	0.006	0.2048
TOTAL:				0.00	0.04	0.35



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:	**18-Dec-2024 / 09:46**	*Run Time:*	**10.00**

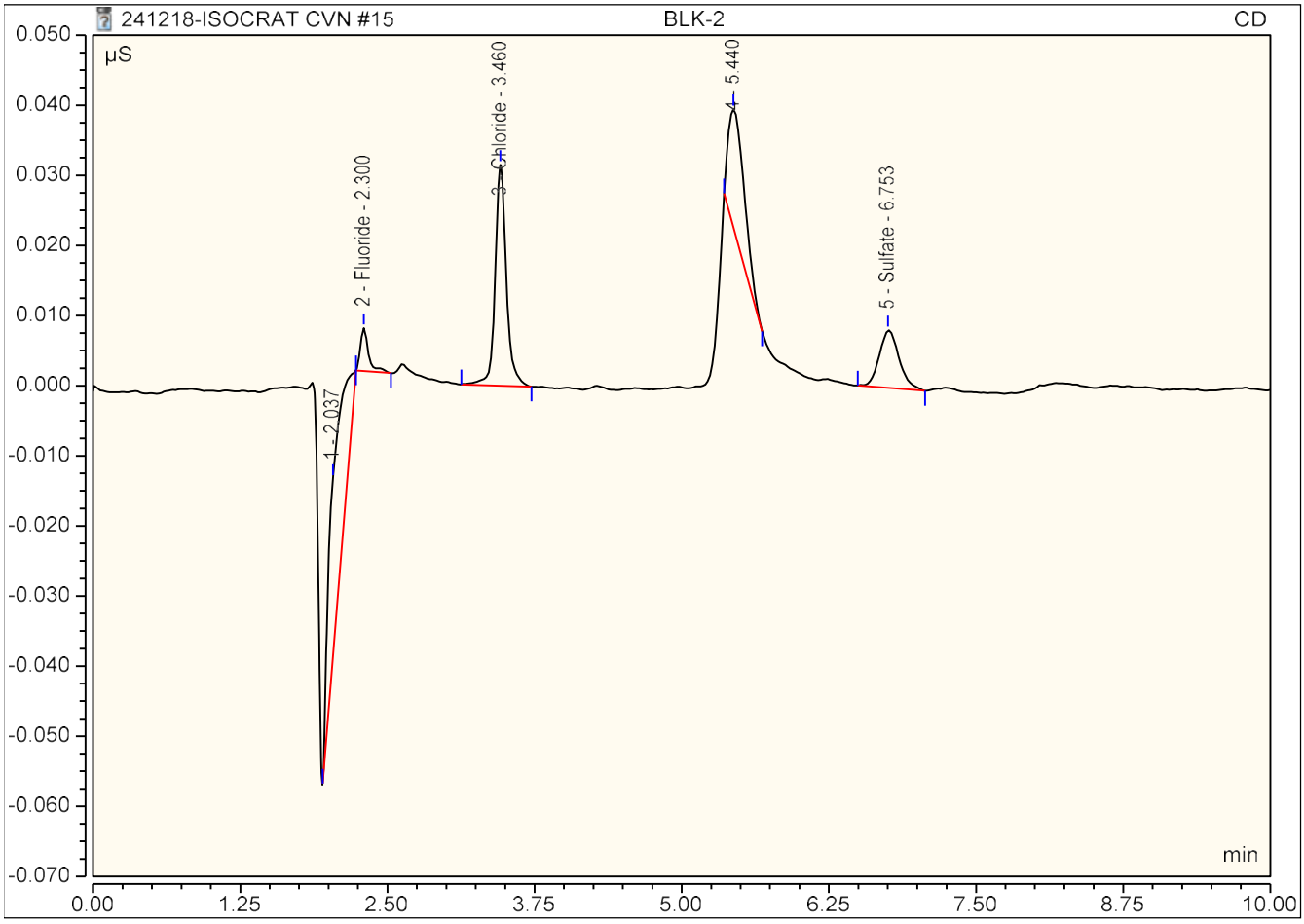
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.427	5.409	0.8318
3	3.46	**Chloride**	BMB*	2.910	28.875	7.8660
5	5.99	**Bromide**	BMB	0.086	0.564	0.7628
6	6.70	**Sulfate**	BM *	2.103	11.191	7.5924
7	7.16	**Nitrate**	MB*	0.713	3.735	0.8162
TOTAL:				6.24	49.77	17.87



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:	**18-Dec-2024 / 09:58**	*Run Time:*	**10.00**

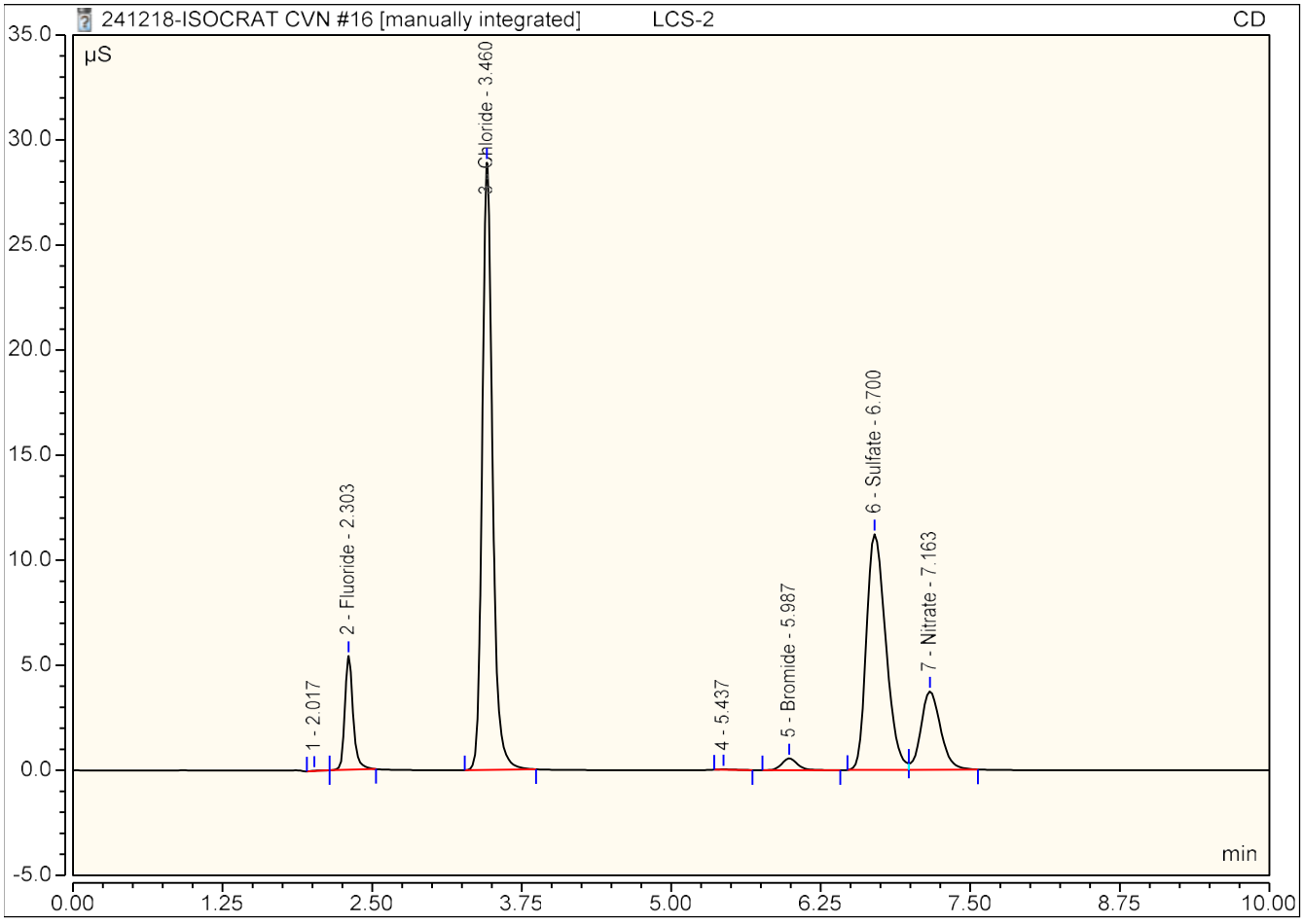
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.000	0.006	0.0226
3	3.46	**Chloride**	BMB	0.003	0.032	0.1268
5	6.75	**Sulfate**	BMB	0.002	0.008	0.2061
TOTAL:				0.01	0.05	0.36



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:	**18-Dec-2024 / 10:10**	*Run Time:*	**10.00**

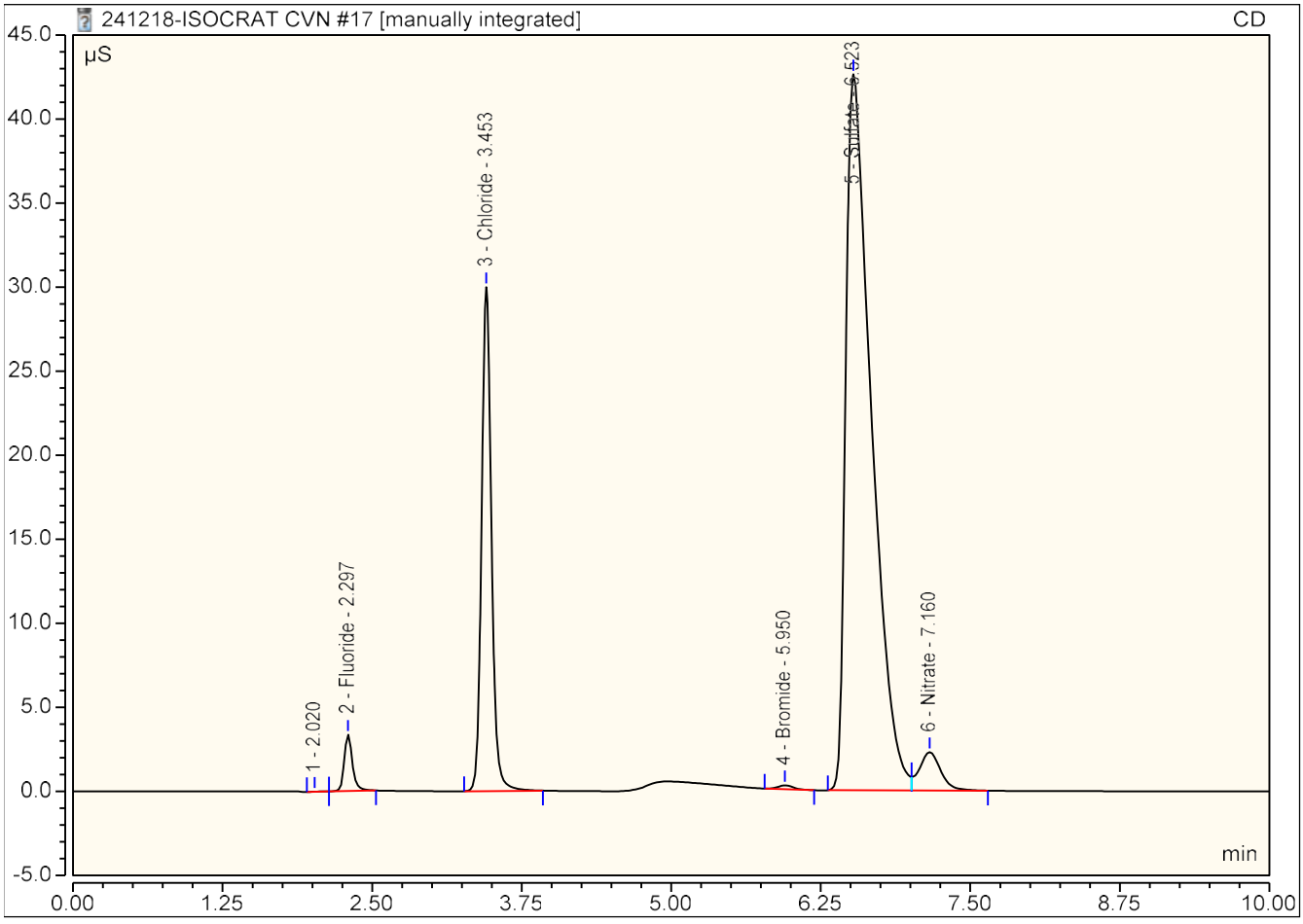
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.428	5.418	0.8351
3	3.46	**Chloride**	BMB*	2.907	28.898	7.8573
5	5.99	**Bromide**	BMB	0.086	0.565	0.7636
6	6.70	**Sulfate**	BM *	2.106	11.217	7.6038
7	7.16	**Nitrate**	MB*	0.702	3.723	0.8033
TOTAL:				6.23	49.82	17.86



Peak Integration Report

Sample Name:	**L2472716-01 CL F SO4 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 / 10:22**	*Run Time:*	**10.00**

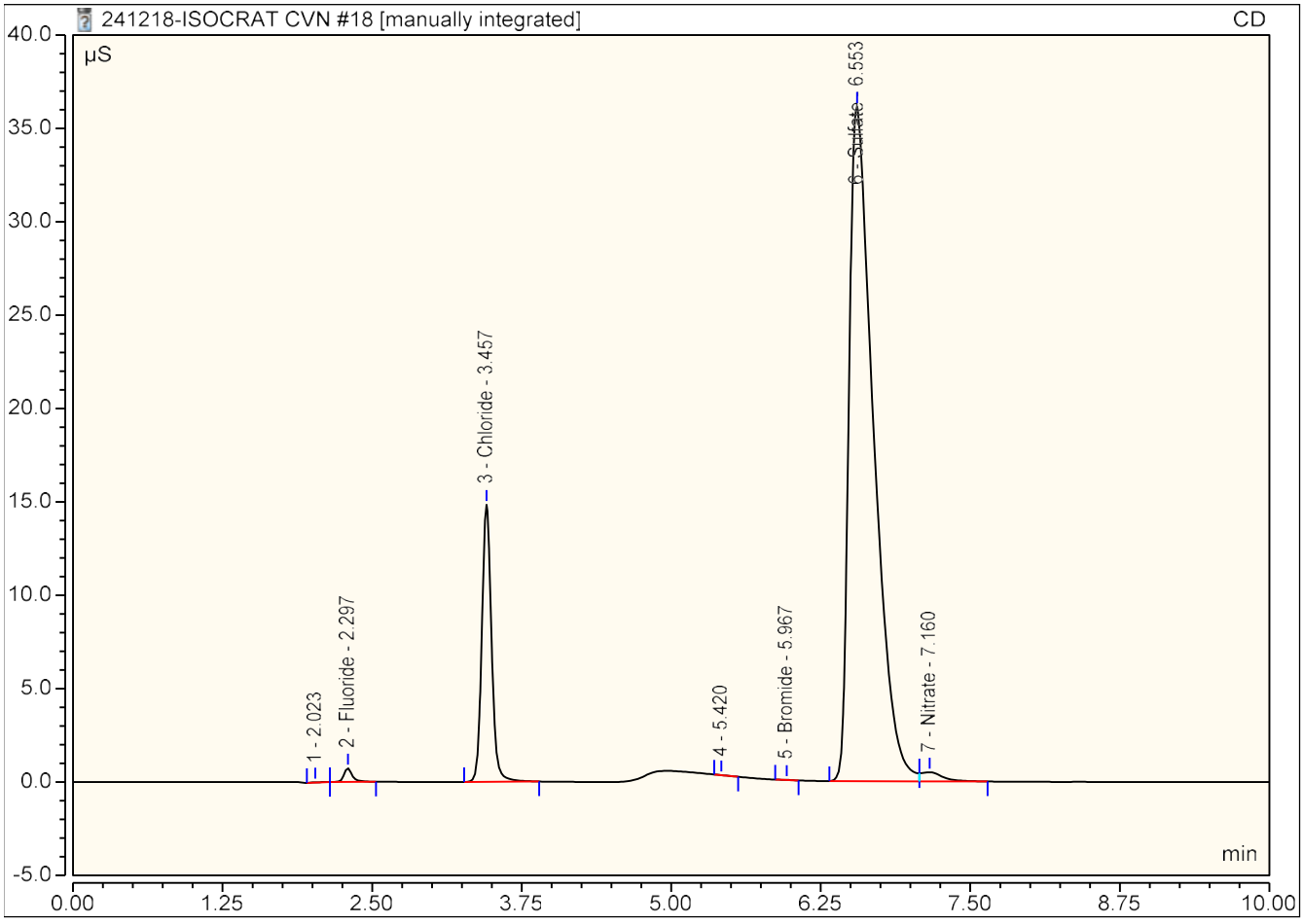
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.267	3.355	0.5281
3	3.45	**Chloride**	BMB*	2.867	29.980	7.7509
4	5.95	**Bromide**	BMB	0.035	0.237	0.3268
5	6.52	**Sulfate**	BM *	10.577	42.589	37.3848
6	7.16	**Nitrate**	MB*	0.474	2.278	0.5510
TOTAL:				14.22	78.44	46.54



Peak Integration Report

Sample Name:	**L2472716-01 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 / 10:35**	*Run Time:*	**10.00**

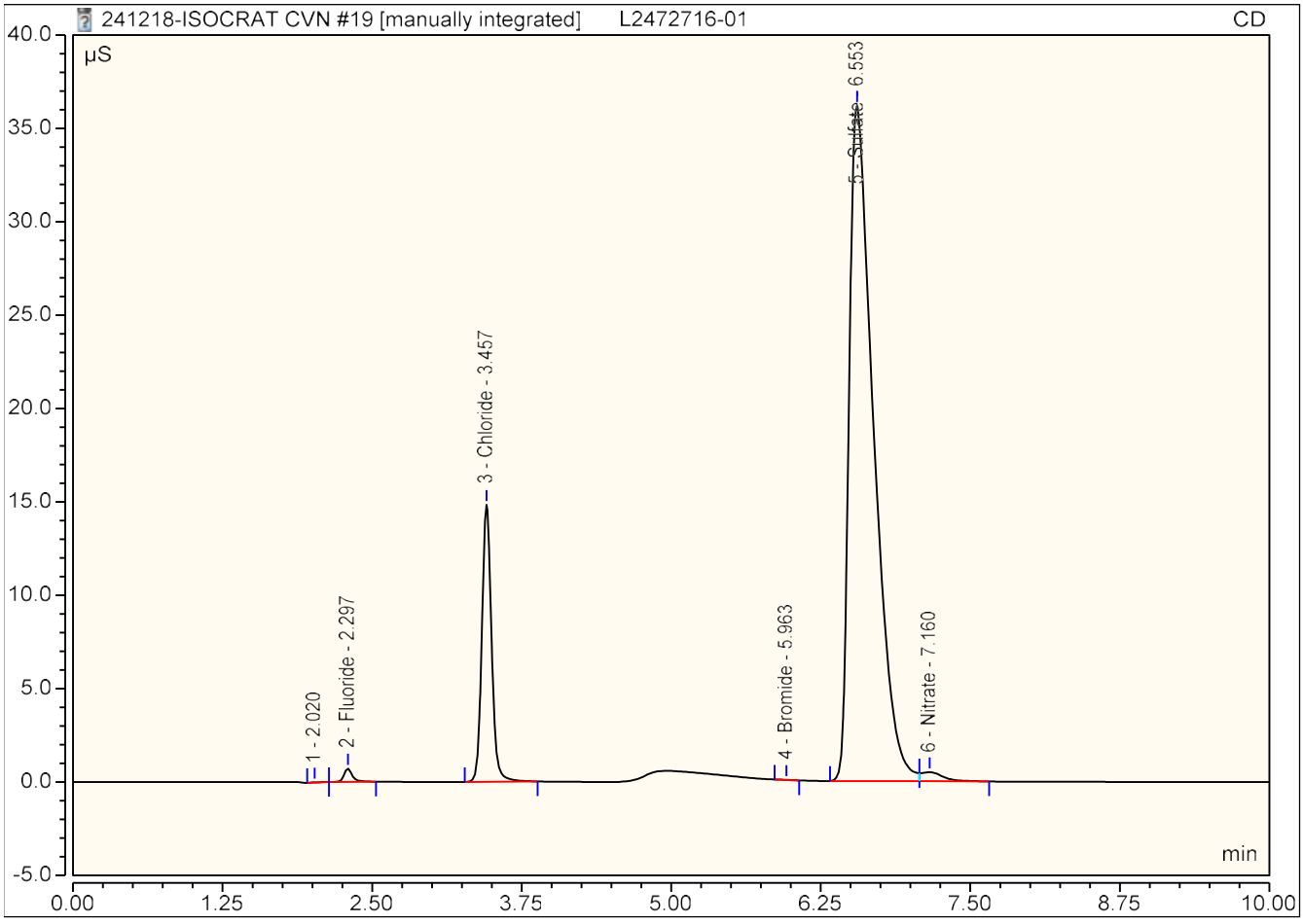
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.059	0.729	0.1327
3	3.46	**Chloride**	BMB*	1.396	14.837	3.8339
5	5.97	**Bromide**	BMB	0.000	0.004	0.0329
6	6.55	**Sulfate**	BM *	8.601	36.103	30.4368
7	7.16	**Nitrate**	MB*	0.103	0.484	0.1391
TOTAL:				10.16	52.16	34.58



Peak Integration Report

Sample Name:	**L2472716-01**	*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 / 10:47**	*Run Time:*	**10.00**

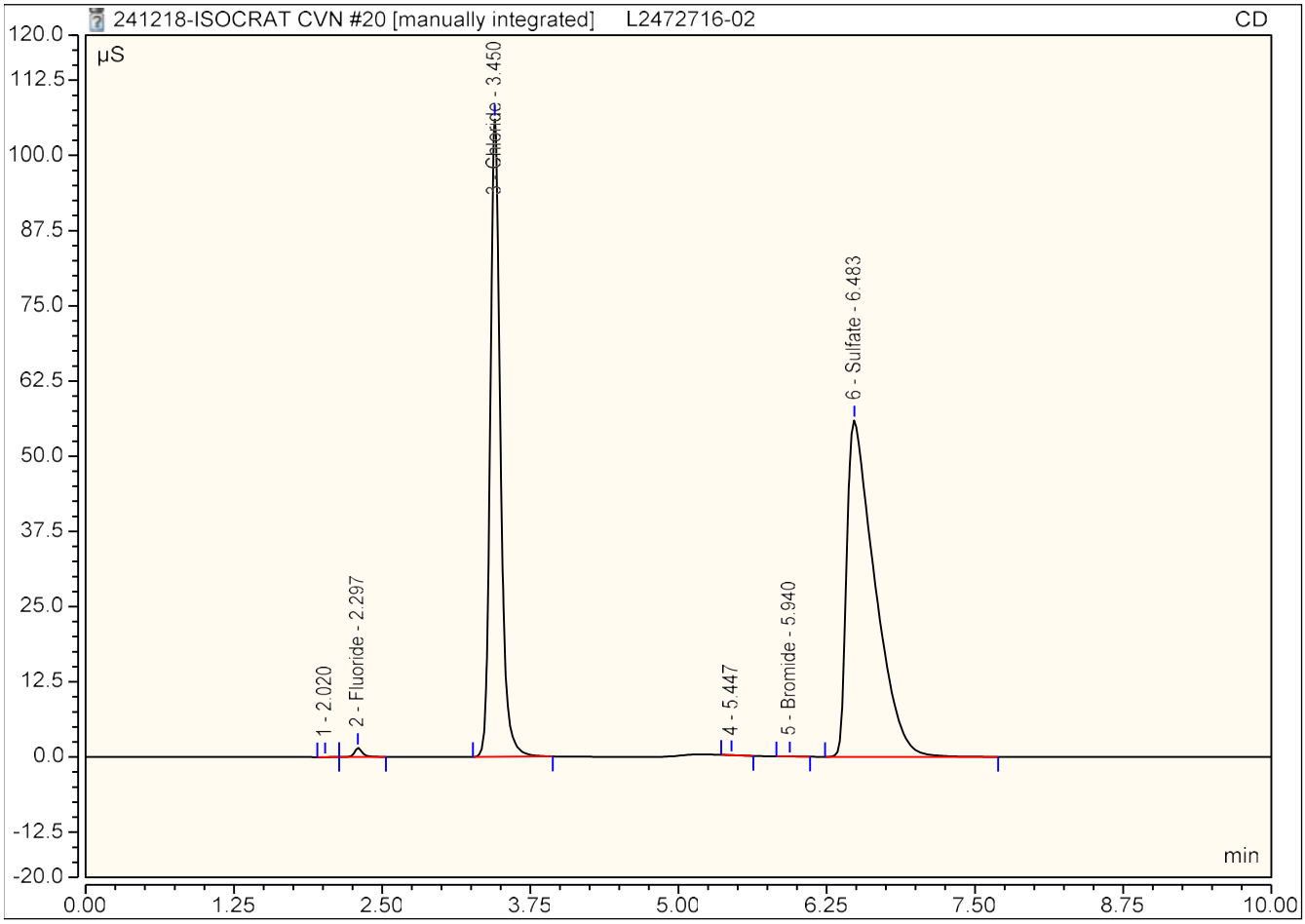
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.058	0.719	0.1314
3	3.46	**Chloride**	BMB*	1.393	14.843	3.8262
4	5.96	**Bromide**	BMB	0.001	0.005	0.0340
5	6.55	**Sulfate**	BM *	8.589	36.167	30.3978
6	7.16	**Nitrate**	MB*	0.105	0.489	0.1418
TOTAL:				10.15	52.22	34.53



Peak Integration Report

Sample Name:	**L2472716-02**	*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 / 10:59**	*Run Time:*	**10.00**

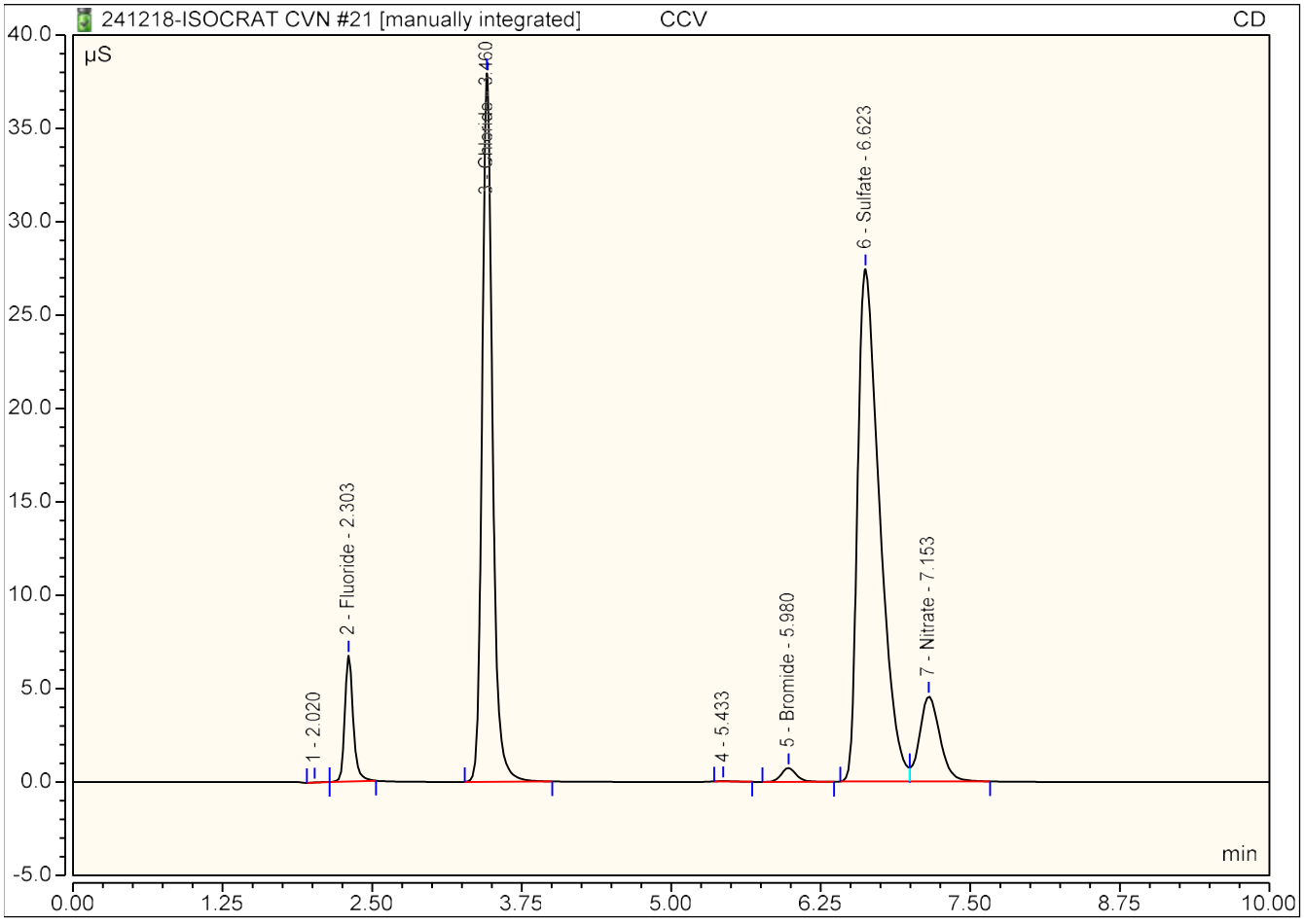
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.117	1.494	0.2442
3	3.45	**Chloride**	BMB*	10.660	105.965	28.4978
5	5.94	**Bromide**	BMB	0.004	0.031	0.0645
6	6.48	**Sulfate**	BMB	15.363	55.927	54.2103
TOTAL:				26.14	163.42	83.02



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 / 11:11**	*Run Time:*	**10.00**

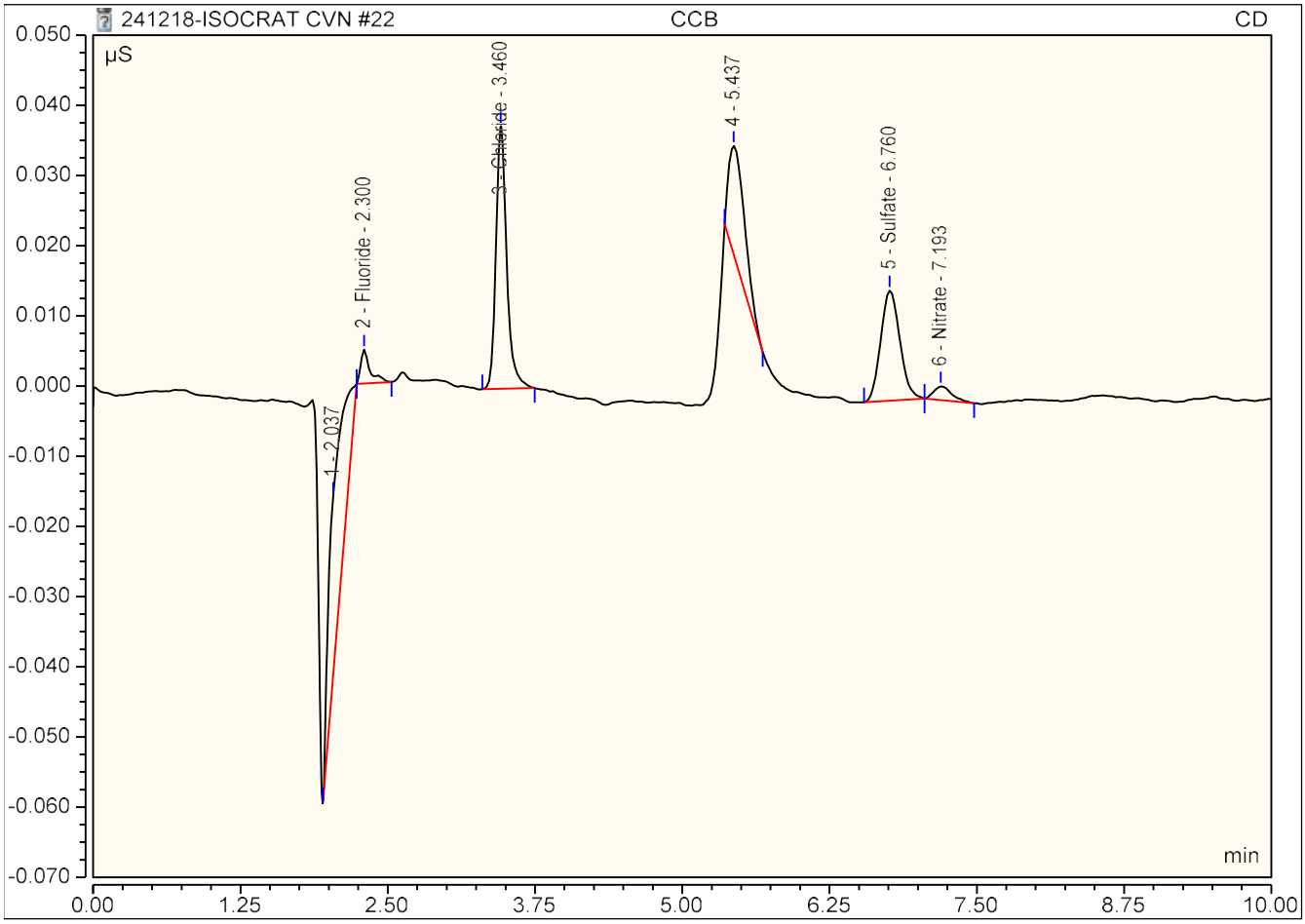
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.541	6.744	1.0493
3	3.46	**Chloride**	BMB*	3.851	37.930	10.3706
5	5.98	**Bromide**	BMB	0.110	0.745	0.9703
6	6.62	**Sulfate**	BM *	5.850	27.435	20.7664
7	7.15	**Nitrate**	MB*	0.898	4.550	1.0209
TOTAL:				11.25	77.40	34.18



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 / 11:23**	*Run Time:*	**10.00**

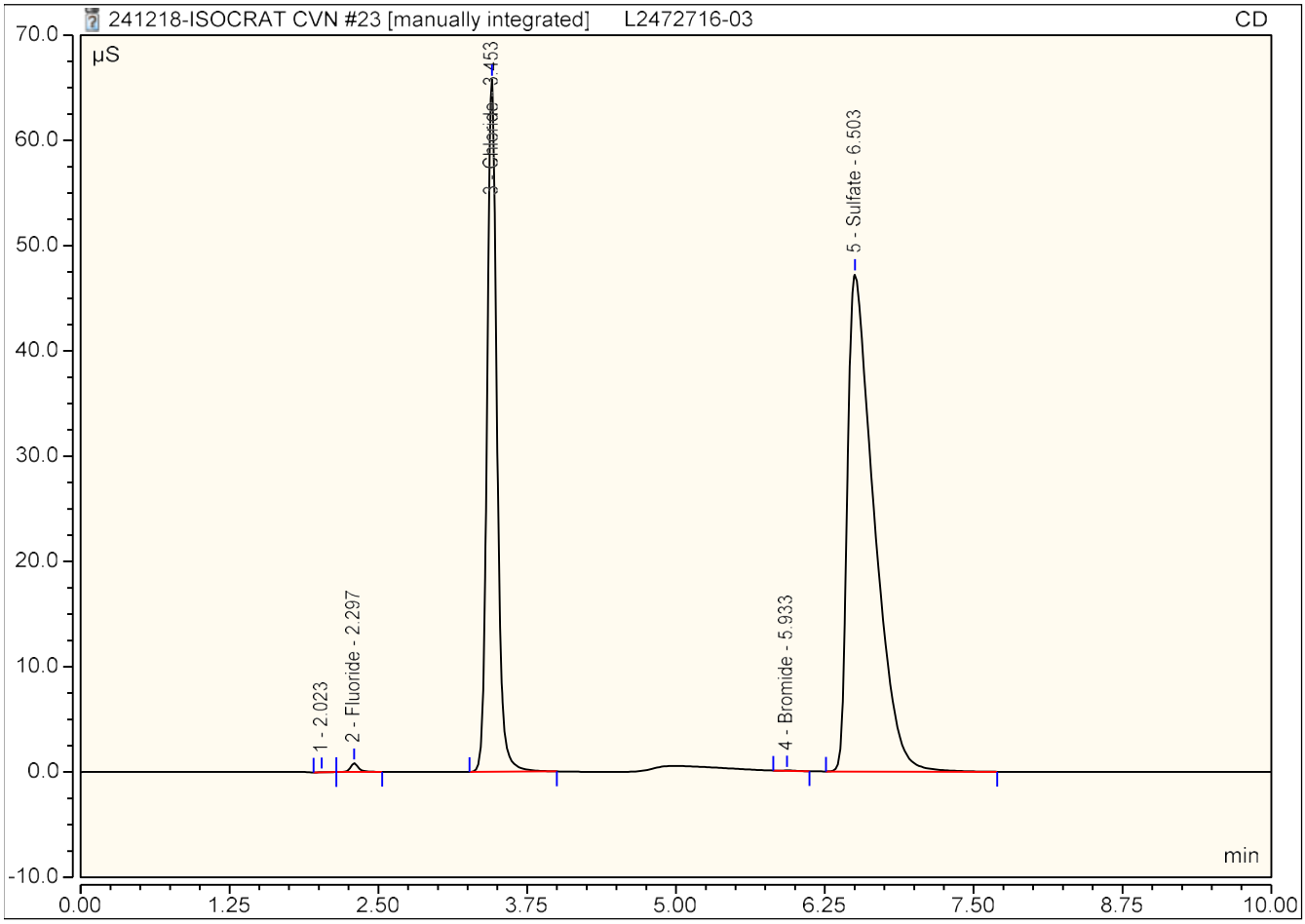
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.000	0.005	0.0225
3	3.46	**Chloride**	BMB	0.004	0.037	0.1281
5	6.76	**Sulfate**	BMB	0.003	0.016	0.2108
6	7.19	**Nitrate**	BMB	0.000	0.002	0.0256
TOTAL:				0.01	0.06	0.39



Peak Integration Report

Sample Name:	**L2472716-03**	*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 / 11:35**	*Run Time:*	**10.00**

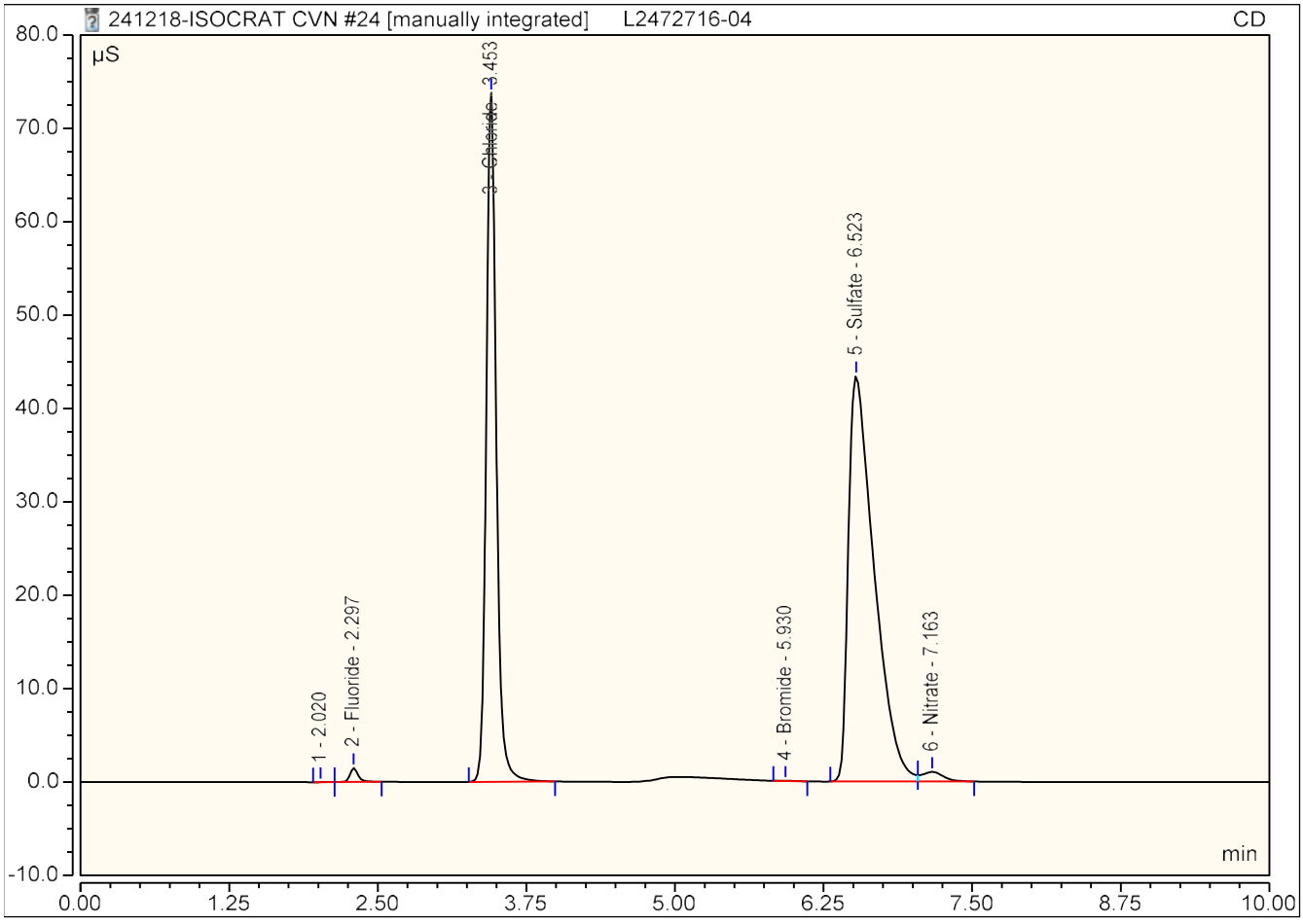
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.066	0.836	0.1478
3	3.45	**Chloride**	BMB*	6.351	65.778	17.0255
4	5.93	**Bromide**	BMB	0.005	0.032	0.0691
5	6.50	**Sulfate**	BMB	12.201	47.264	43.0943
TOTAL:				18.62	113.91	60.34



Peak Integration Report

Sample Name:	**L2472716-04**	*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 / 11:47**	*Run Time:*	**10.00**

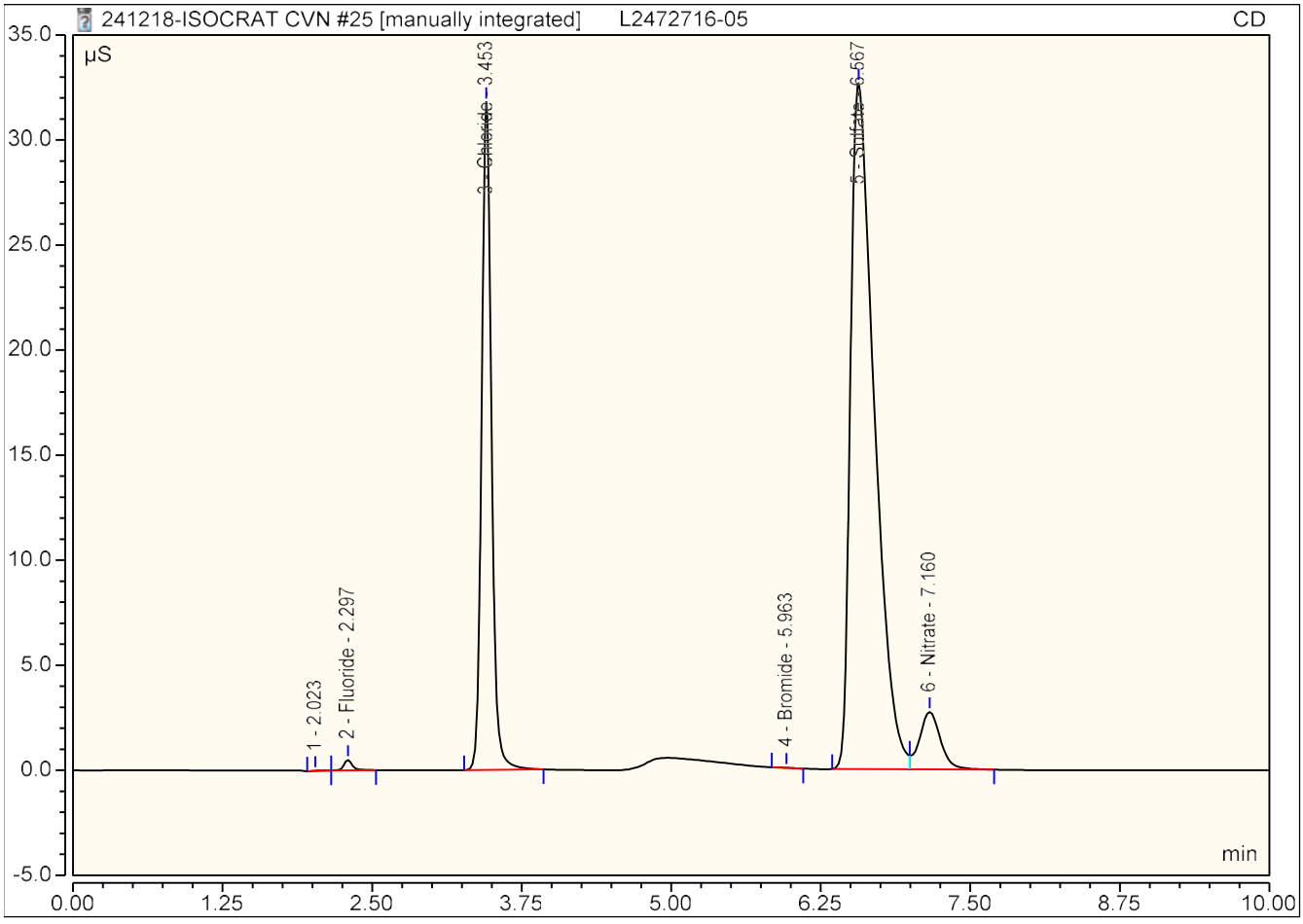
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.118	1.499	0.2461
3	3.45	**Chloride**	BMB*	7.221	73.743	19.3435
4	5.93	**Bromide**	BMB	0.003	0.024	0.0593
5	6.52	**Sulfate**	BM *	10.868	43.416	38.4079
6	7.16	**Nitrate**	MB*	0.215	1.027	0.2634
TOTAL:				18.43	119.71	58.32



Peak Integration Report

Sample Name:	**L2472716-05**	*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 / 11:59**	*Run Time:*	**10.00**

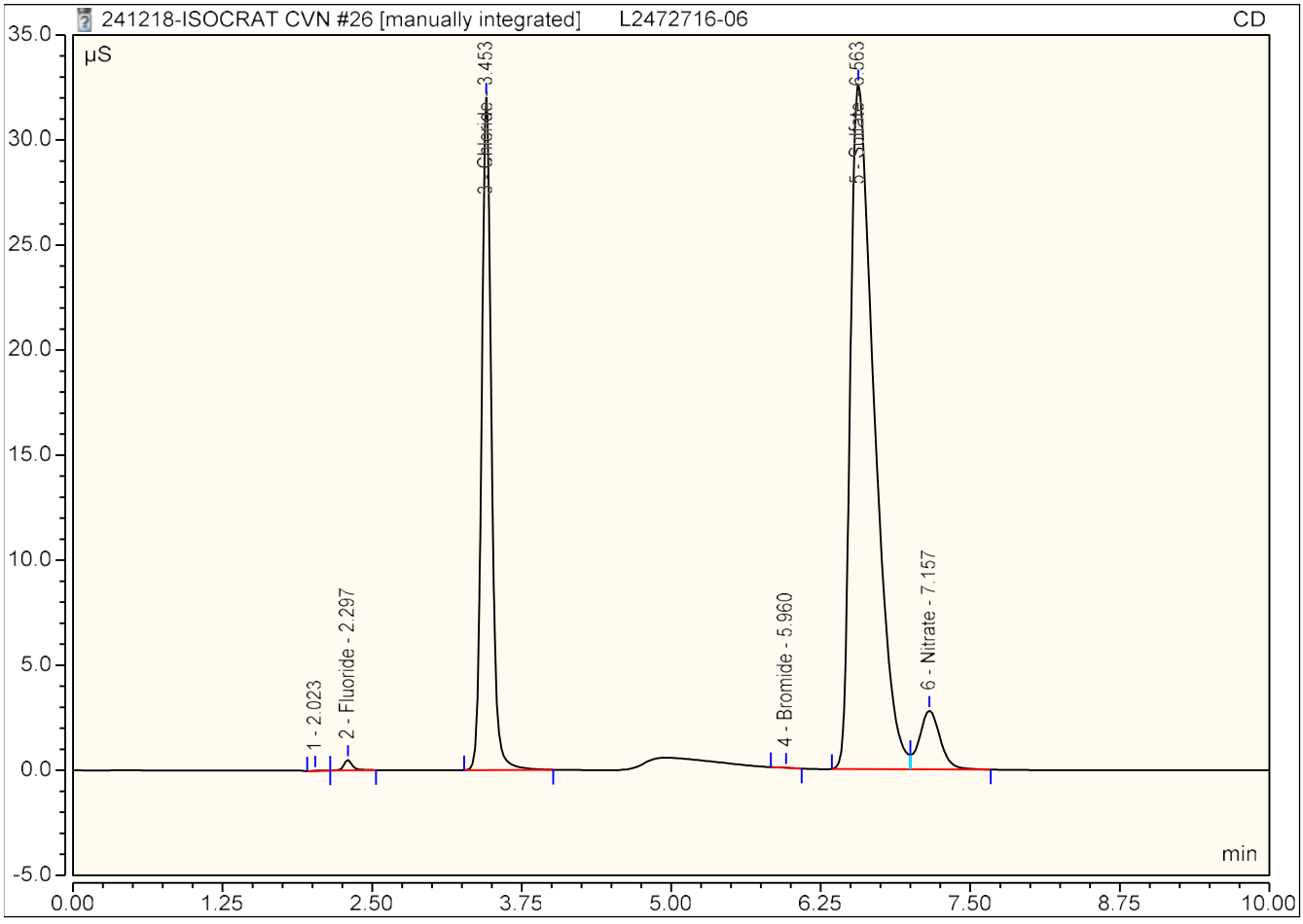
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.040	0.495	0.0980
3	3.45	**Chloride**	BMB*	3.036	31.790	8.2008
4	5.96	**Bromide**	BMB	0.002	0.013	0.0436
5	6.57	**Sulfate**	BM *	7.537	32.631	26.6973
6	7.16	**Nitrate**	MB*	0.556	2.732	0.6418
TOTAL:				11.17	67.66	35.68



Peak Integration Report

Sample Name:	**L2472716-06**	*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 / 12:11**	*Run Time:*	**10.00**

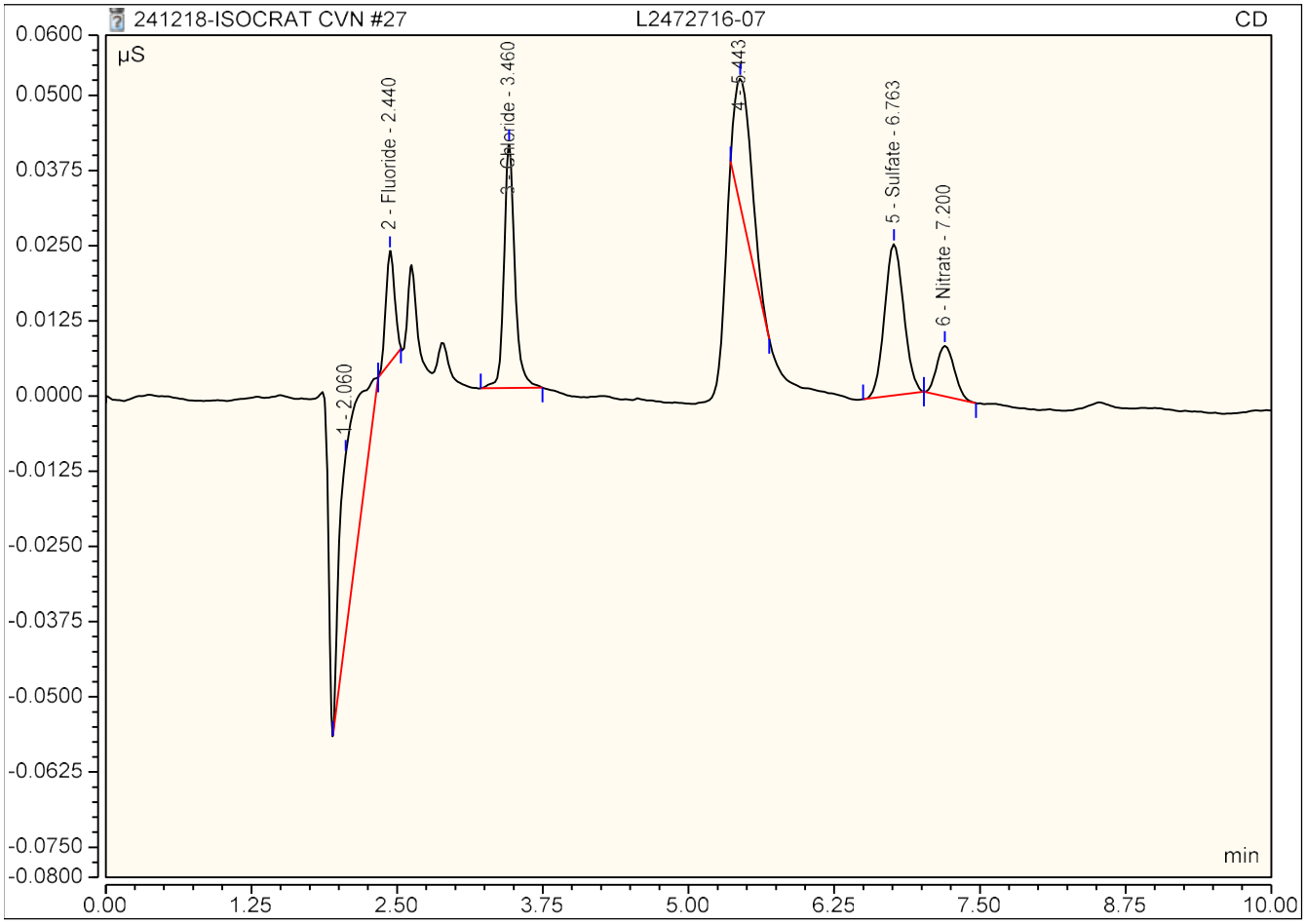
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.040	0.491	0.0977
3	3.45	**Chloride**	BMB*	3.060	32.014	8.2654
4	5.96	**Bromide**	BMB	0.002	0.013	0.0427
5	6.56	**Sulfate**	BM *	7.546	32.591	26.7301
6	7.16	**Nitrate**	MB*	0.561	2.790	0.6468
TOTAL:				11.21	67.90	35.78



Peak Integration Report

Sample Name:	**L2472716-07**	*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 / 12:23**	*Run Time:*	**10.00**

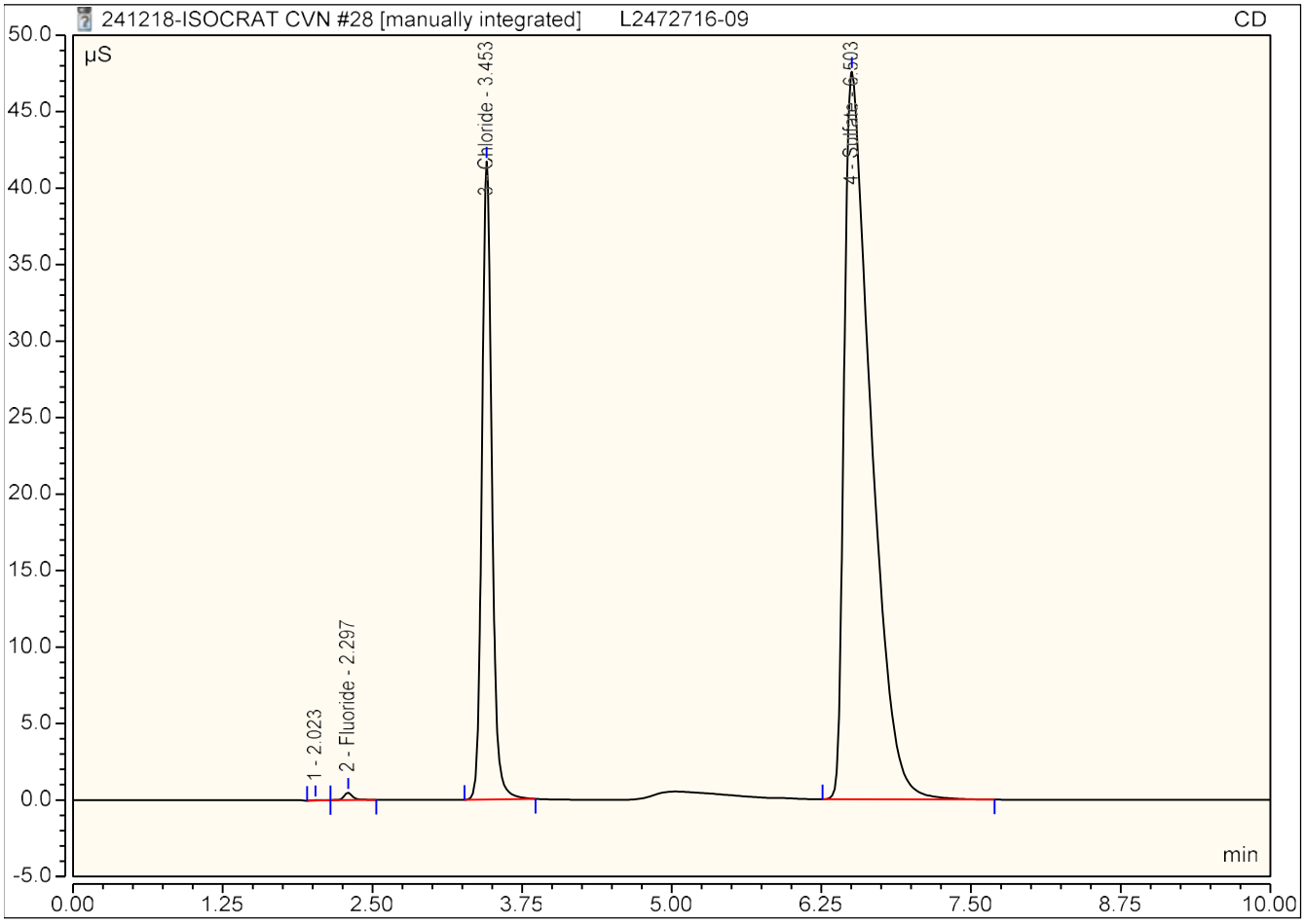
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.44	**Fluoride**	BMB	0.002	0.019	0.0247
3	3.46	**Chloride**	BMB	0.004	0.041	0.1292
5	6.76	**Sulfate**	BMB	0.005	0.025	0.2173
6	7.20	**Nitrate**	BMB	0.001	0.008	0.0269
TOTAL:				0.01	0.09	0.40



Peak Integration Report

Sample Name:	**L2472716-09**	*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 / 12:35**	*Run Time:*	**10.00**

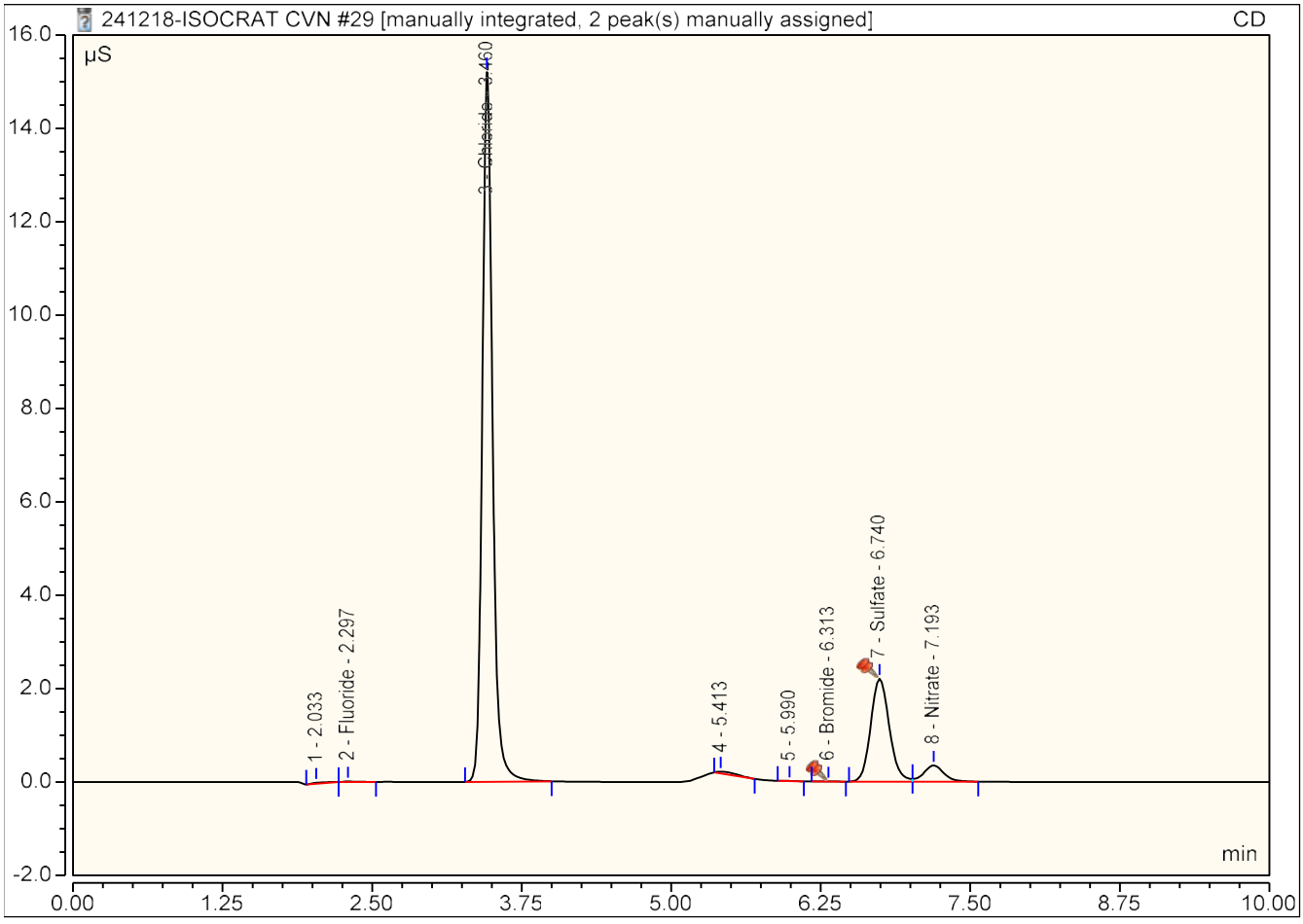
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.039	0.478	0.0956
3	3.45	**Chloride**	BMB*	4.018	41.708	10.8160
4	6.50	**Sulfate**	BMB	12.335	47.565	43.5647
TOTAL:				16.39	89.75	54.48



Peak Integration Report

Sample Name:	**L2473032-16 CL; 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 / 12:47**	*Run Time:*	**10.00**

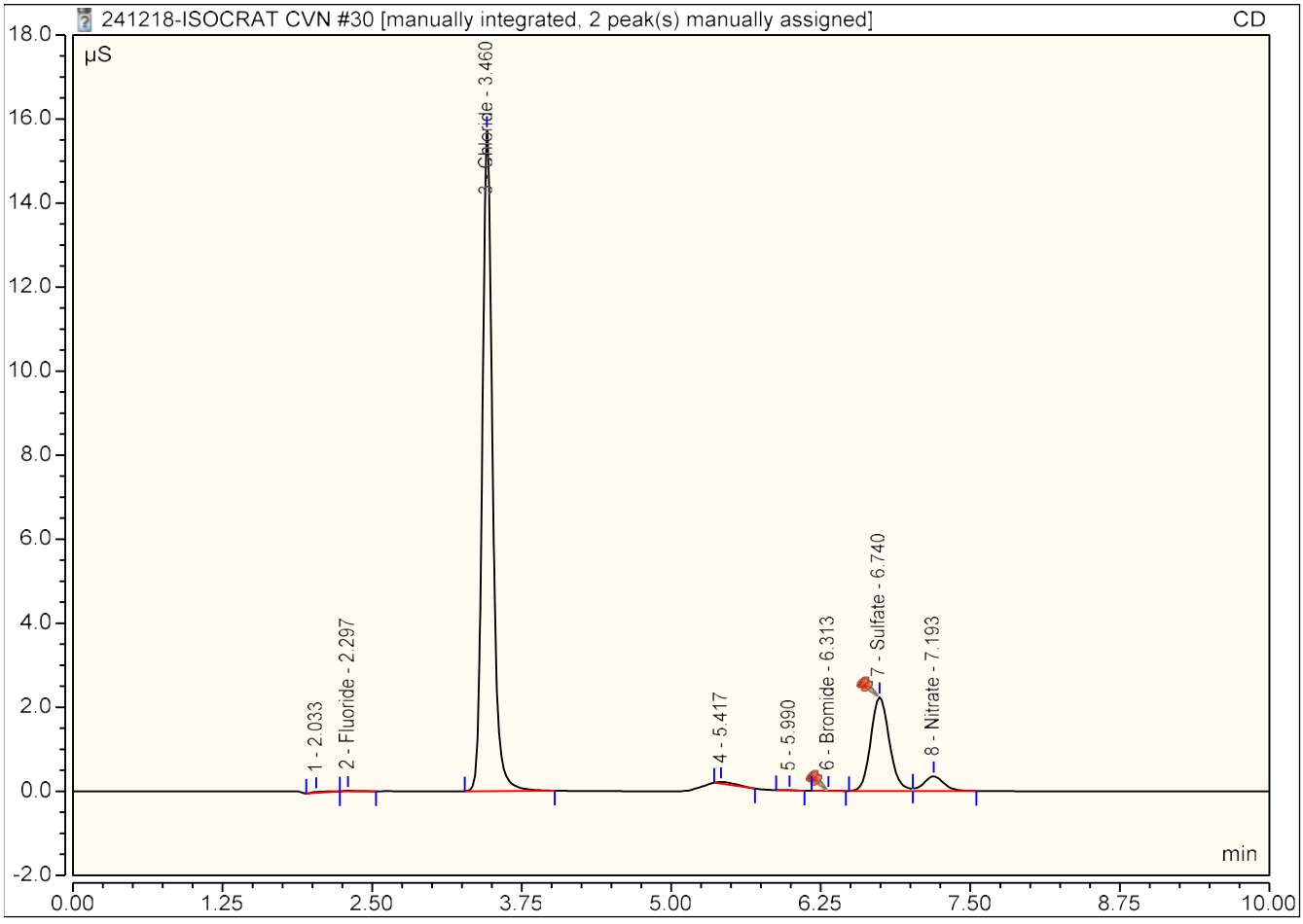
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.001	0.015	0.2423
3	3.46	**Chloride**	BMB*	1.515	15.198	41.4997
6	6.31	**Bromide**	BMB^	0.001	0.006	0.3676
7	6.74	**Sulfate**	BM *^	0.397	2.206	15.9563
8	7.19	**Nitrate**	MB*	0.068	0.347	1.0030
TOTAL:				1.98	17.77	59.07



Peak Integration Report

Sample Name:	**L2473032-17; 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 / 13:00**	*Run Time:*	**10.00**

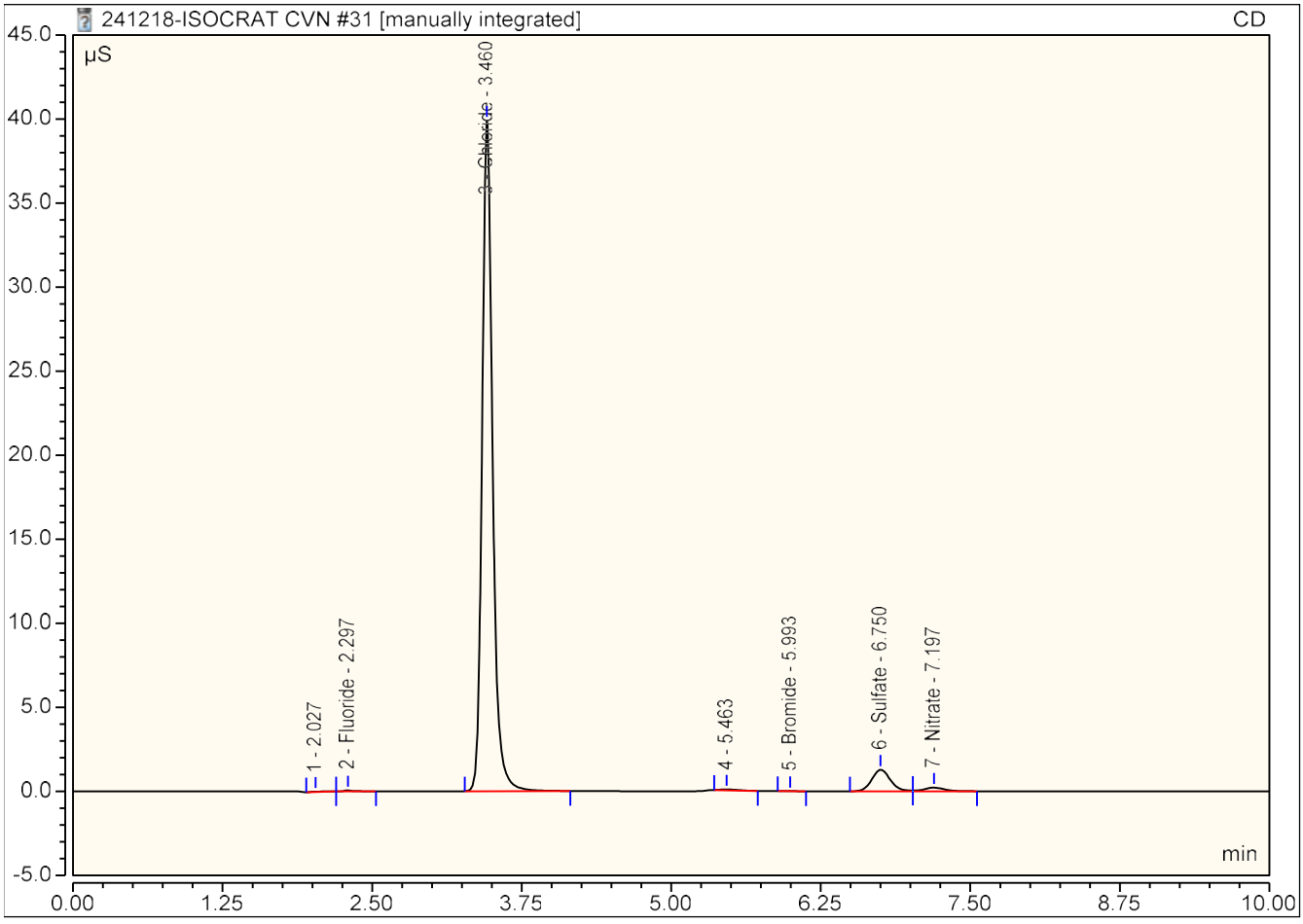
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.001	0.015	0.2428
3	3.46	**Chloride**	BMB*	1.565	15.709	42.8441
6	6.31	**Bromide**	BMB^	0.001	0.006	0.3740
7	6.74	**Sulfate**	BM *^	0.401	2.231	16.0993
8	7.19	**Nitrate**	MB*	0.067	0.350	1.0001
TOTAL:				2.04	18.31	60.56



Peak Integration Report

Sample Name:	**L2472932-01 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 / 13:12**	*Run Time:*	**10.00**

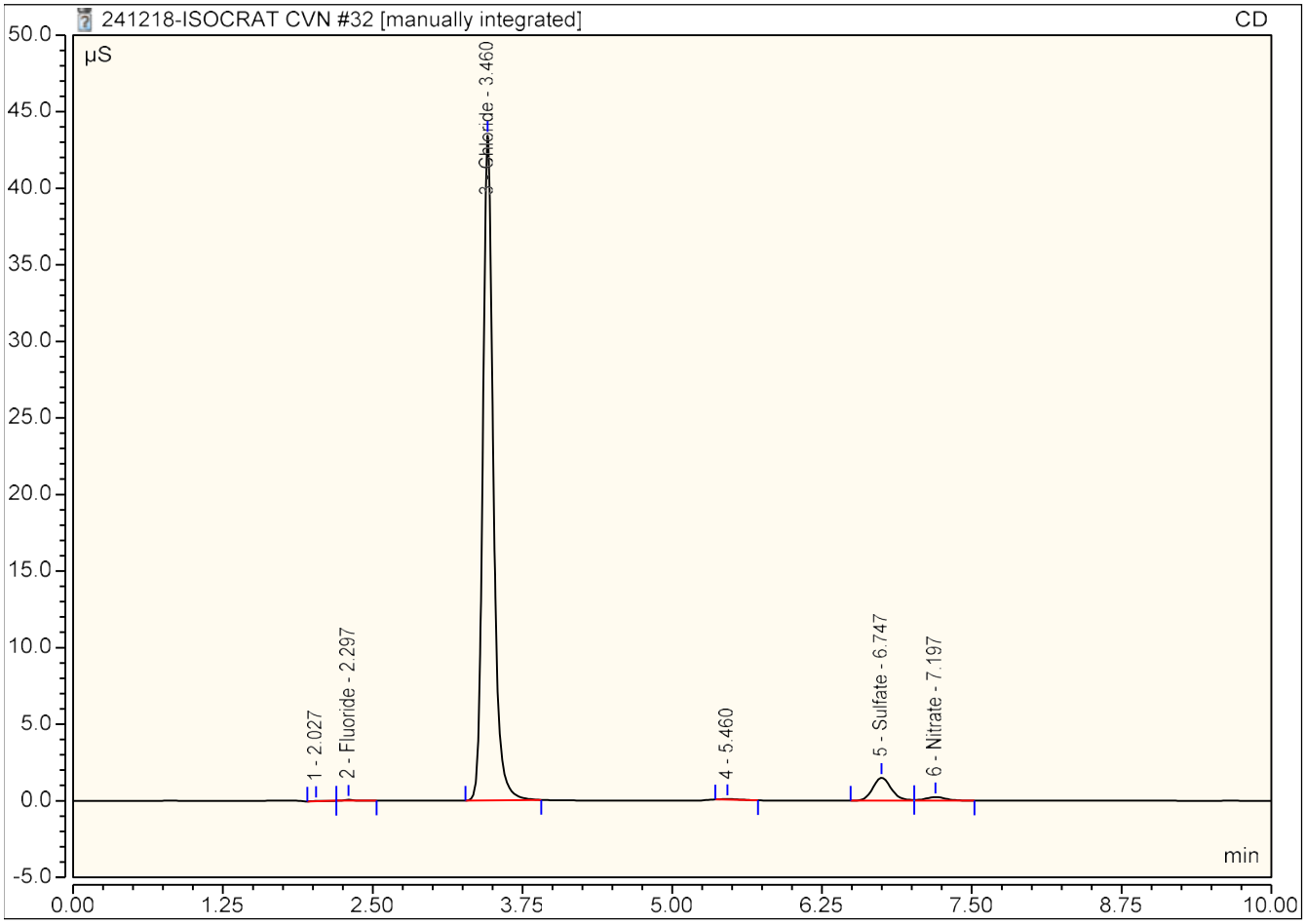
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.005	0.054	0.7656
3	3.46	**Chloride**	BMB*	4.064	39.899	273.4660
5	5.99	**Bromide**	BMB	0.000	0.002	0.7796
6	6.75	**Sulfate**	BM *	0.230	1.282	25.2081
7	7.20	**Nitrate**	MB*	0.043	0.216	1.8112
TOTAL:				4.34	41.45	302.03



Peak Integration Report

Sample Name:	**L2472932-02; 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 / 13:24**	*Run Time:*	**10.00**

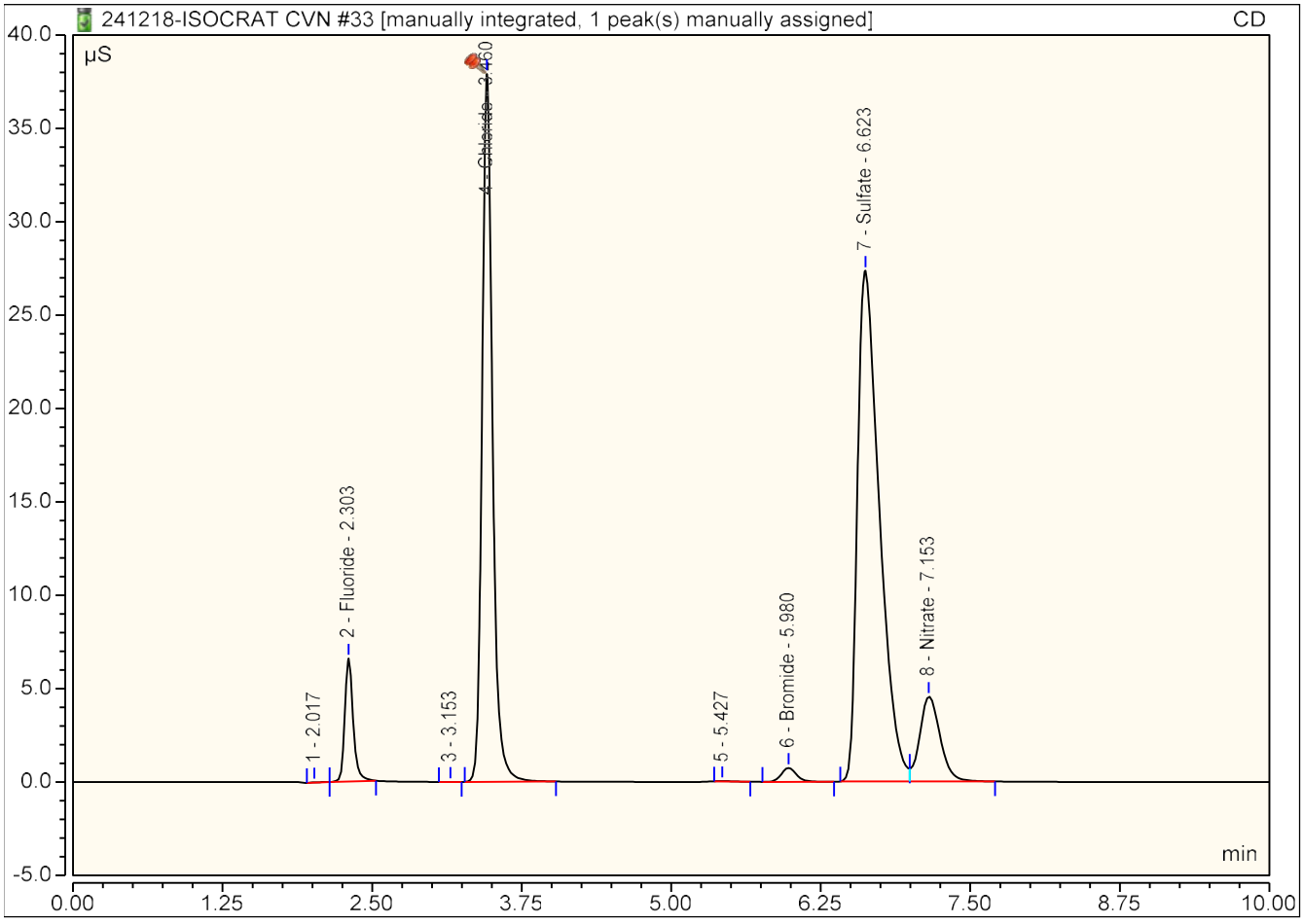
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.006	0.067	0.8103
3	3.46	**Chloride**	BMB*	4.422	43.419	297.2365
5	6.75	**Sulfate**	BM *	0.268	1.495	28.5548
6	7.20	**Nitrate**	MB*	0.046	0.234	1.9023
TOTAL:				4.74	45.22	328.50



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 / 13:36**	*Run Time:*	**10.00**

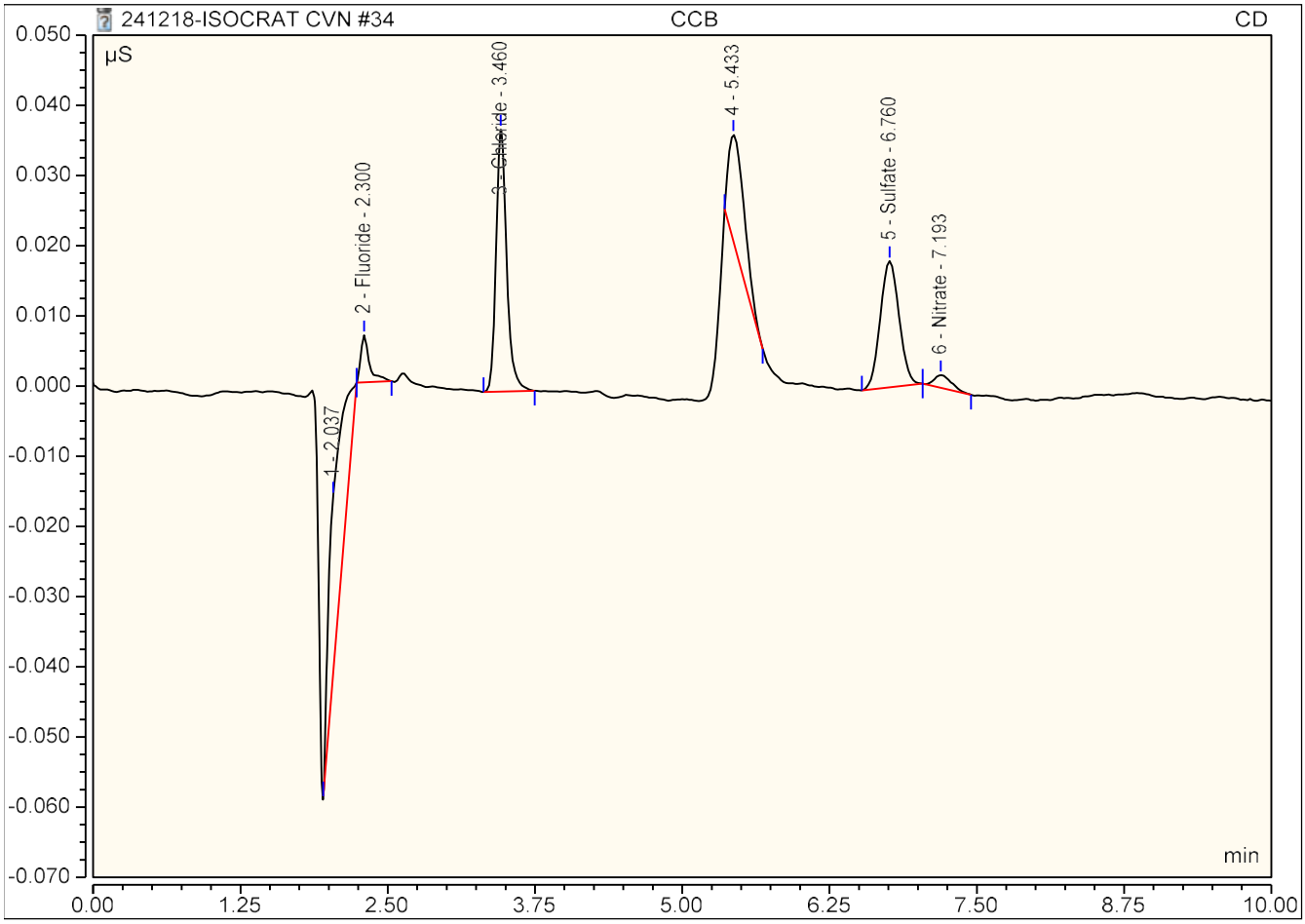
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.530	6.583	1.0286
4	3.46	**Chloride**	BMB*^	3.852	37.901	10.3718
6	5.98	**Bromide**	BMB	0.110	0.748	0.9744
7	6.62	**Sulfate**	BM *	5.819	27.341	20.6578
8	7.15	**Nitrate**	MB*	0.896	4.542	1.0189
TOTAL:				11.21	77.11	34.05



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 / 13:48**	*Run Time:*	**10.00**

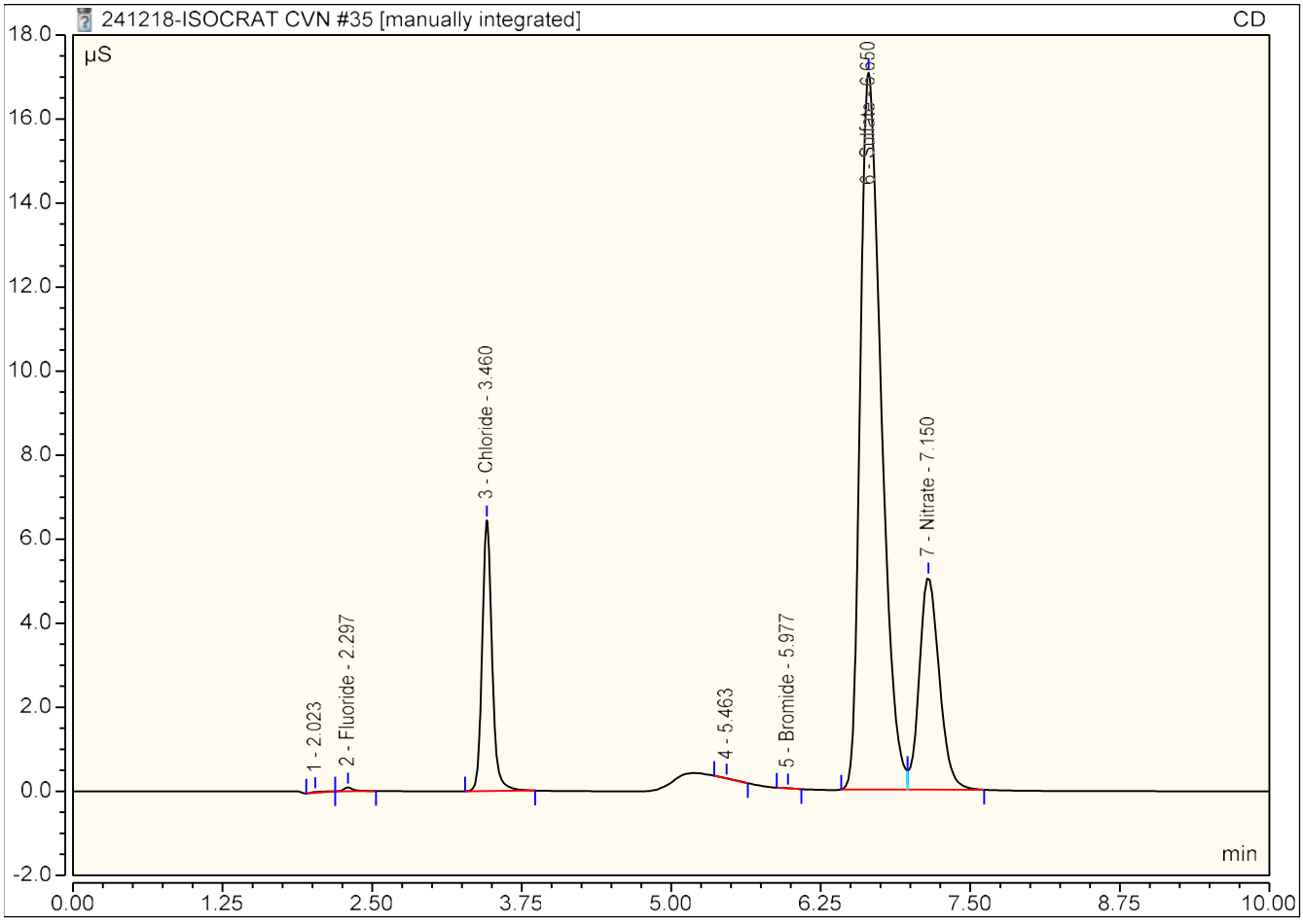
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.001	0.007	0.0227
3	3.46	**Chloride**	BMB	0.004	0.037	0.1279
5	6.76	**Sulfate**	BMB	0.003	0.018	0.2122
6	7.19	**Nitrate**	BMB	0.000	0.002	0.0256
TOTAL:				0.01	0.06	0.39



Peak Integration Report

Sample Name:	**L2473538-01 BR**	*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 / 14:00**	*Run Time:*	**10.00**

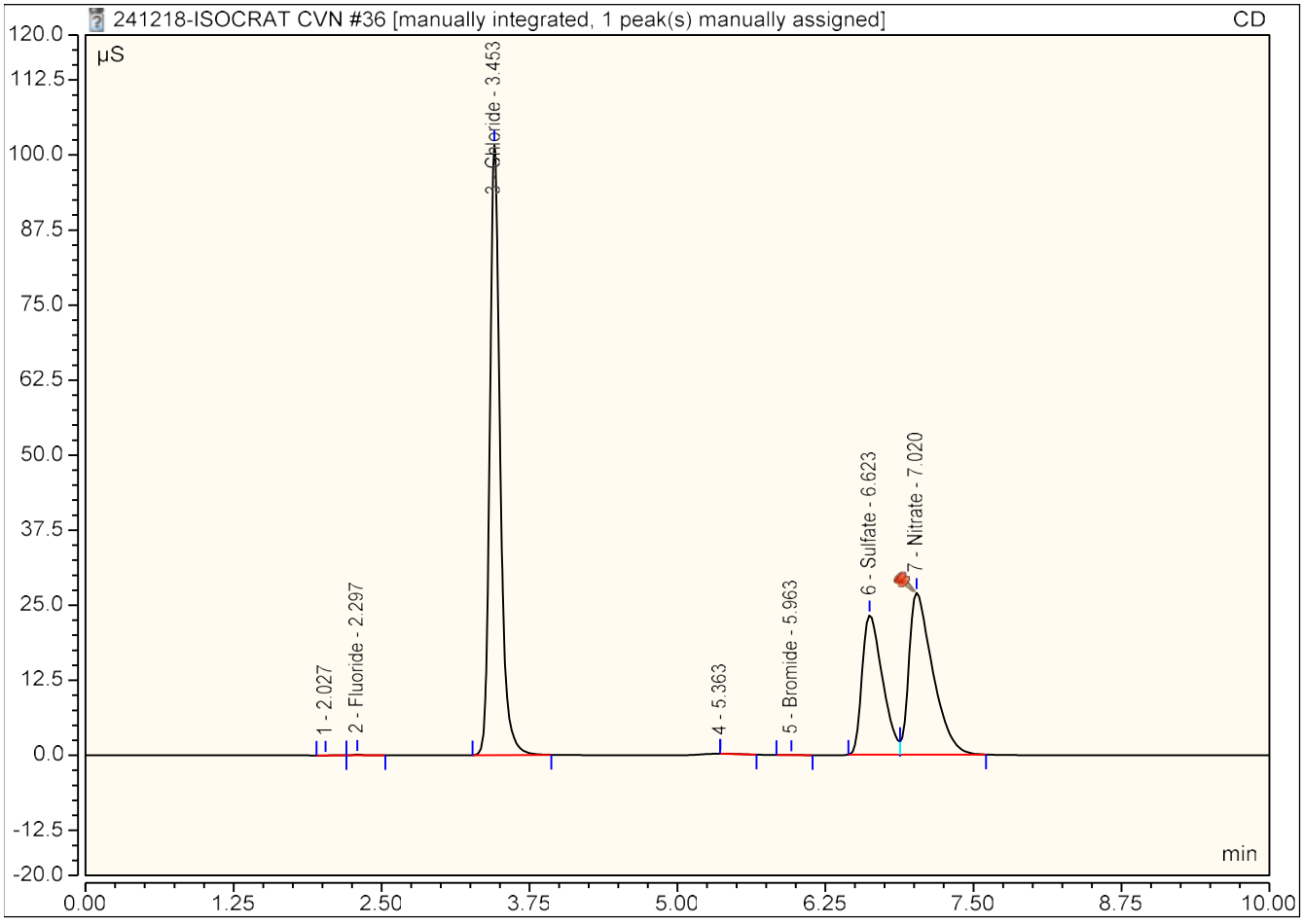
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.009	0.097	0.0381
3	3.46	**Chloride**	BMB*	0.616	6.444	1.7568
5	5.98	**Bromide**	BMB	0.000	0.005	0.0336
6	6.65	**Sulfate**	BM *	3.481	17.058	12.4367
7	7.15	**Nitrate**	MB*	0.979	5.056	1.1109
TOTAL:				5.08	28.66	15.38



Peak Integration Report

Sample Name:	**L2473538-02**	*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 / 14:12**	*Run Time:*	**10.00**

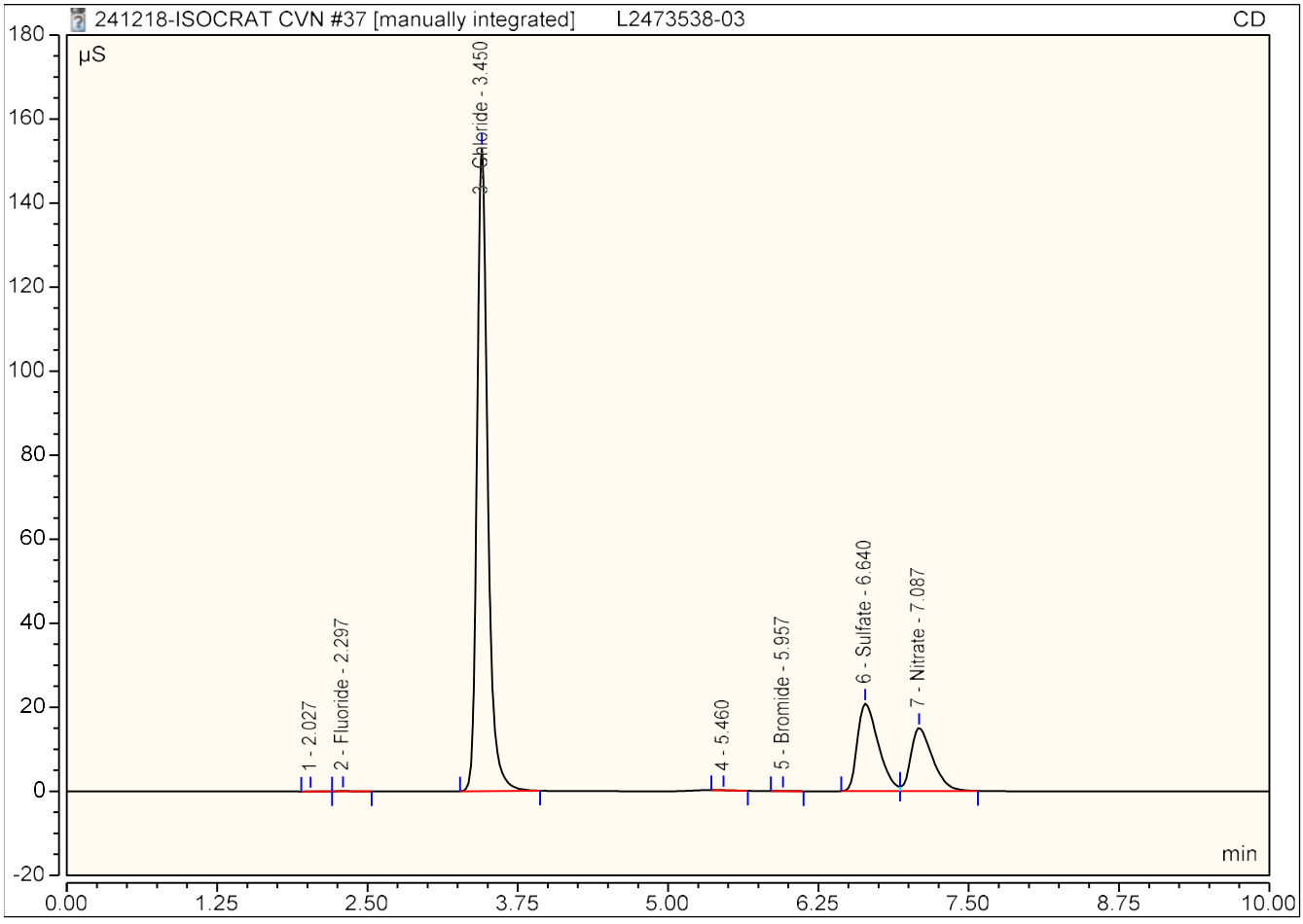
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.012	0.133	0.0436
3	3.45	**Chloride**	BMB*	10.404	101.642	27.8182
5	5.96	**Bromide**	BMB	0.004	0.028	0.0611
6	6.62	**Sulfate**	BM *	4.638	23.238	16.5060
7	7.02	**Nitrate**	MB*^	6.283	26.960	6.9923
TOTAL:				21.34	152.00	51.42



Peak Integration Report

Sample Name:	**L2473538-03**	*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 / 14:24**	*Run Time:*	**10.00**

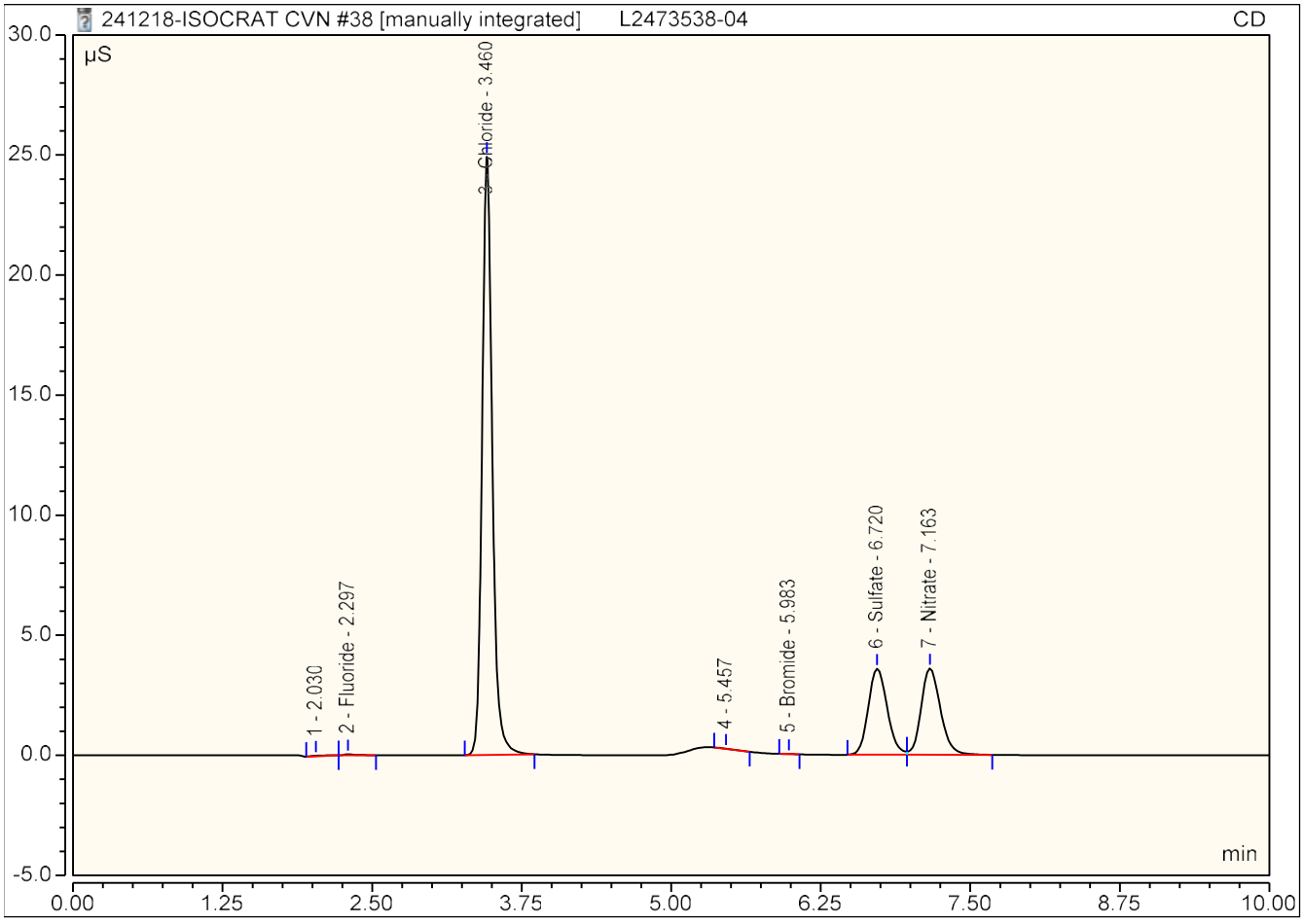
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.007	0.082	0.0351
3	3.45	**Chloride**	BMB*	15.810	153.073	42.2093
5	5.96	**Bromide**	BMB	0.002	0.014	0.0456
6	6.64	**Sulfate**	BM *	4.184	20.785	14.9087
7	7.09	**Nitrate**	MB*	3.141	15.005	3.5076
TOTAL:				23.14	188.96	60.71



Peak Integration Report

Sample Name:	**L2473538-04**	*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 / 14:36**	*Run Time:*	**10.00**

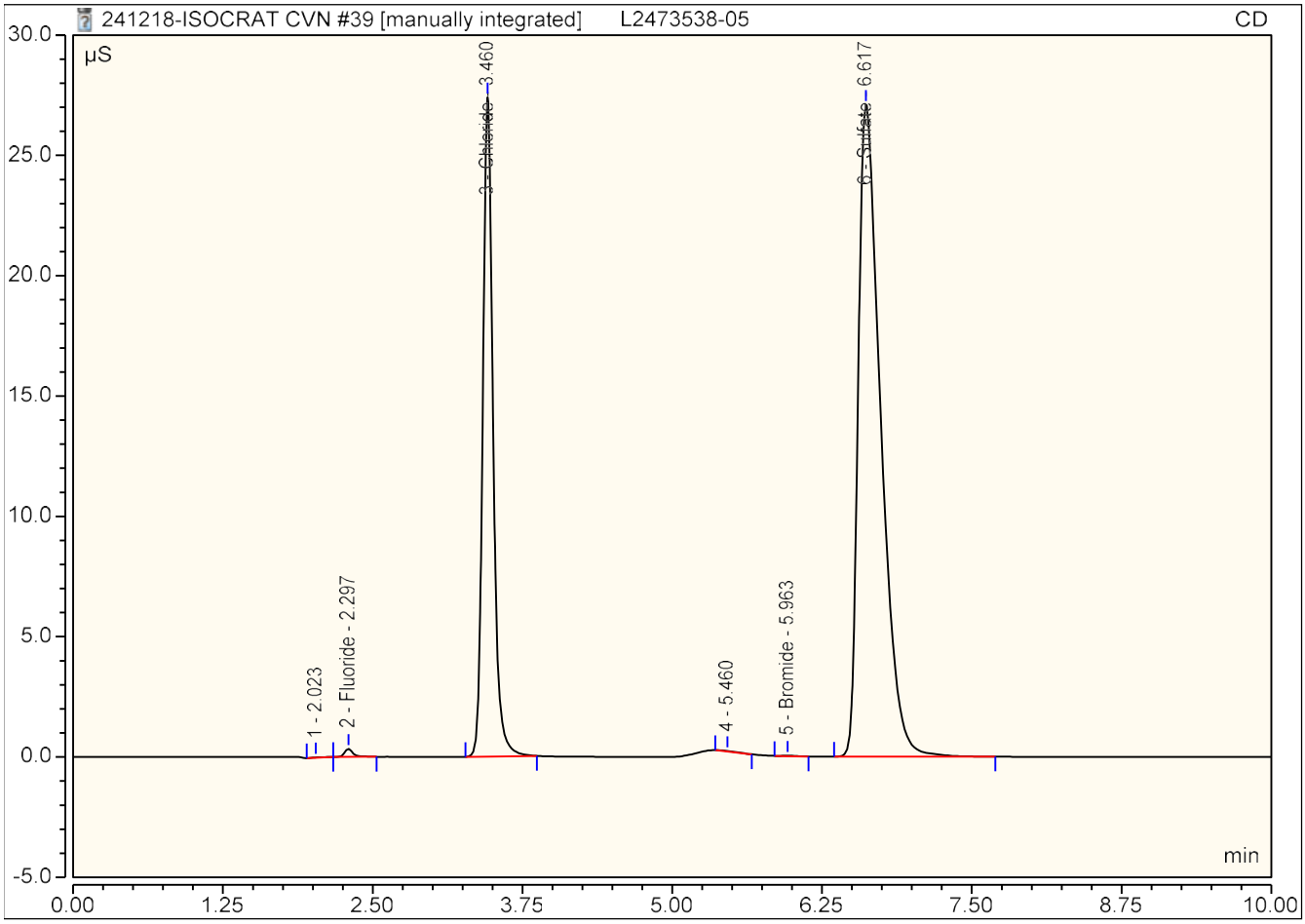
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.004	0.042	0.0294
3	3.46	**Chloride**	BMB*	2.466	24.913	6.6821
5	5.98	**Bromide**	BMB	0.000	0.002	0.0310
6	6.72	**Sulfate**	BM *	0.655	3.581	2.5026
7	7.16	**Nitrate**	MB*	0.674	3.600	0.7720
TOTAL:				3.80	32.14	10.02



Peak Integration Report

Sample Name:	**L2473538-05**	*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 / 14:48**	*Run Time:*	**10.00**

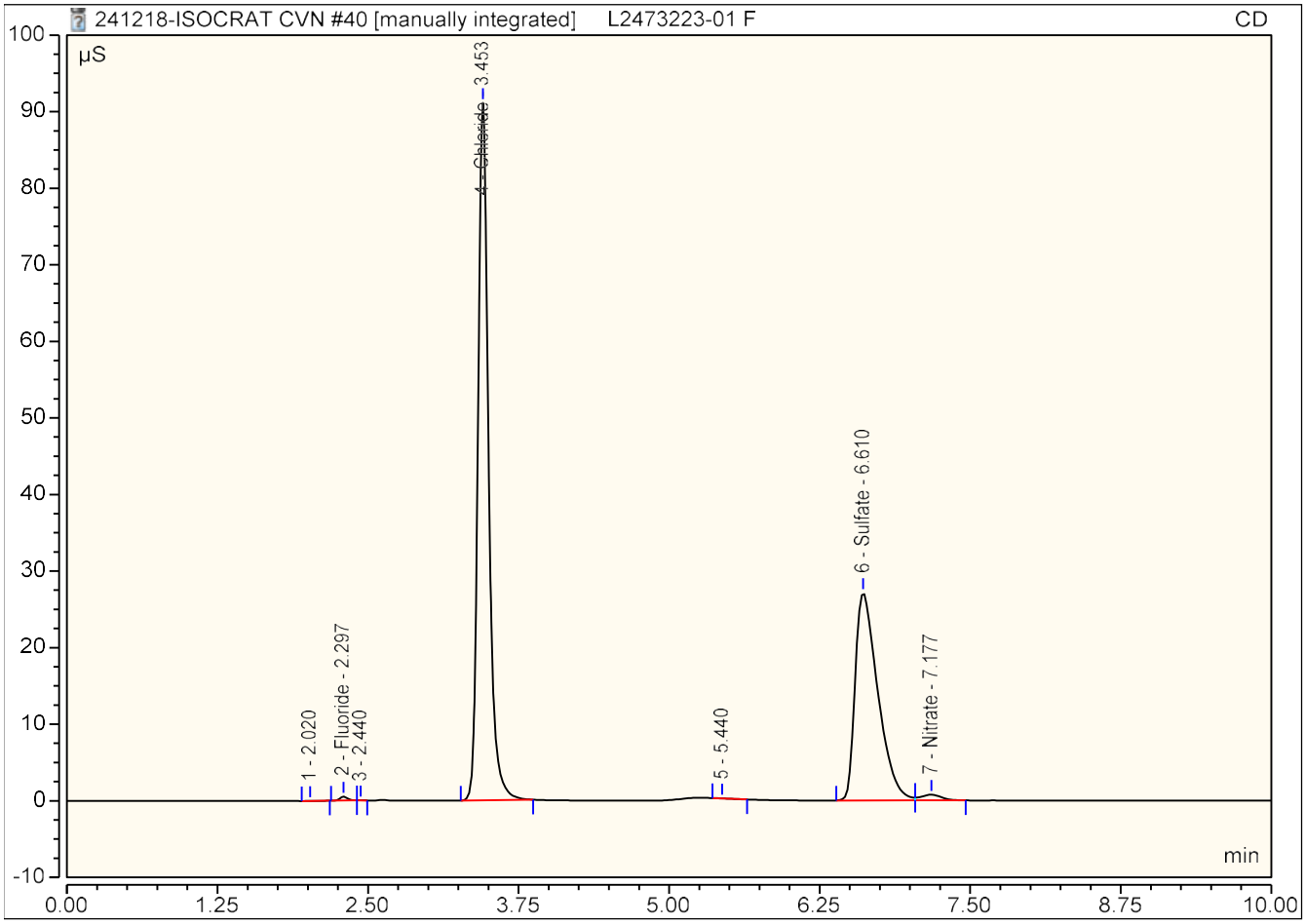
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.028	0.342	0.0743
3	3.46	**Chloride**	BMB*	2.729	27.401	7.3821
5	5.96	**Bromide**	BMB	0.002	0.015	0.0466
6	6.62	**Sulfate**	BMB	5.898	27.097	20.9359
TOTAL:				8.66	54.85	28.44



Peak Integration Report

Sample Name:	**L2473223-01 F**	*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 / 15:00**	*Run Time:*	**10.00**

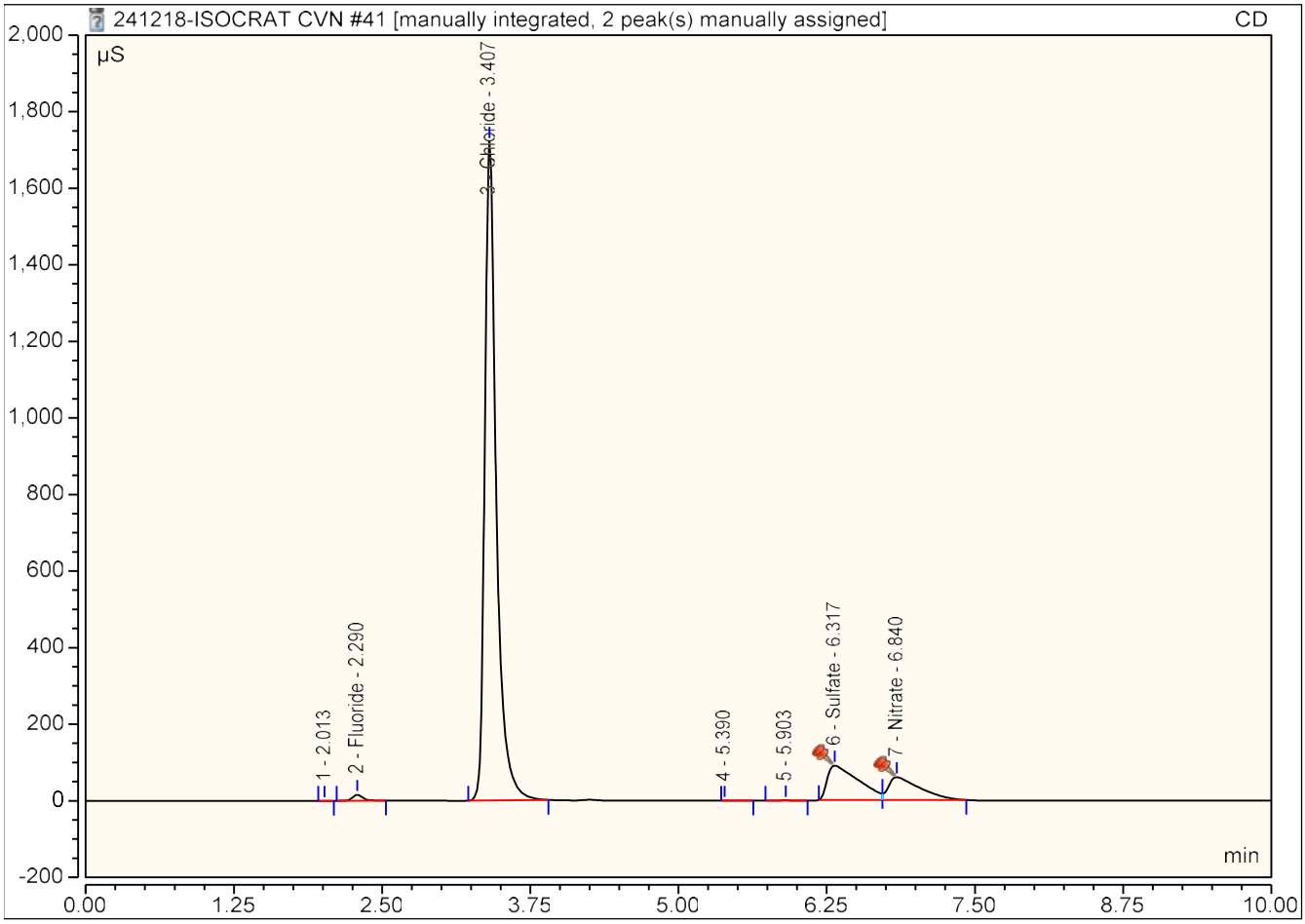
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.036	0.517	0.0905
4	3.45	**Chloride**	BMB*	9.239	91.114	24.7153
6	6.61	**Sulfate**	BM *	5.923	27.113	21.0244
7	7.18	**Nitrate**	MB*	0.149	0.754	0.1905
TOTAL:				15.35	119.50	46.02



Peak Integration Report

Sample Name:	**L2473277-01 F**	*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 / 15:12**	*Run Time:*	**10.00**

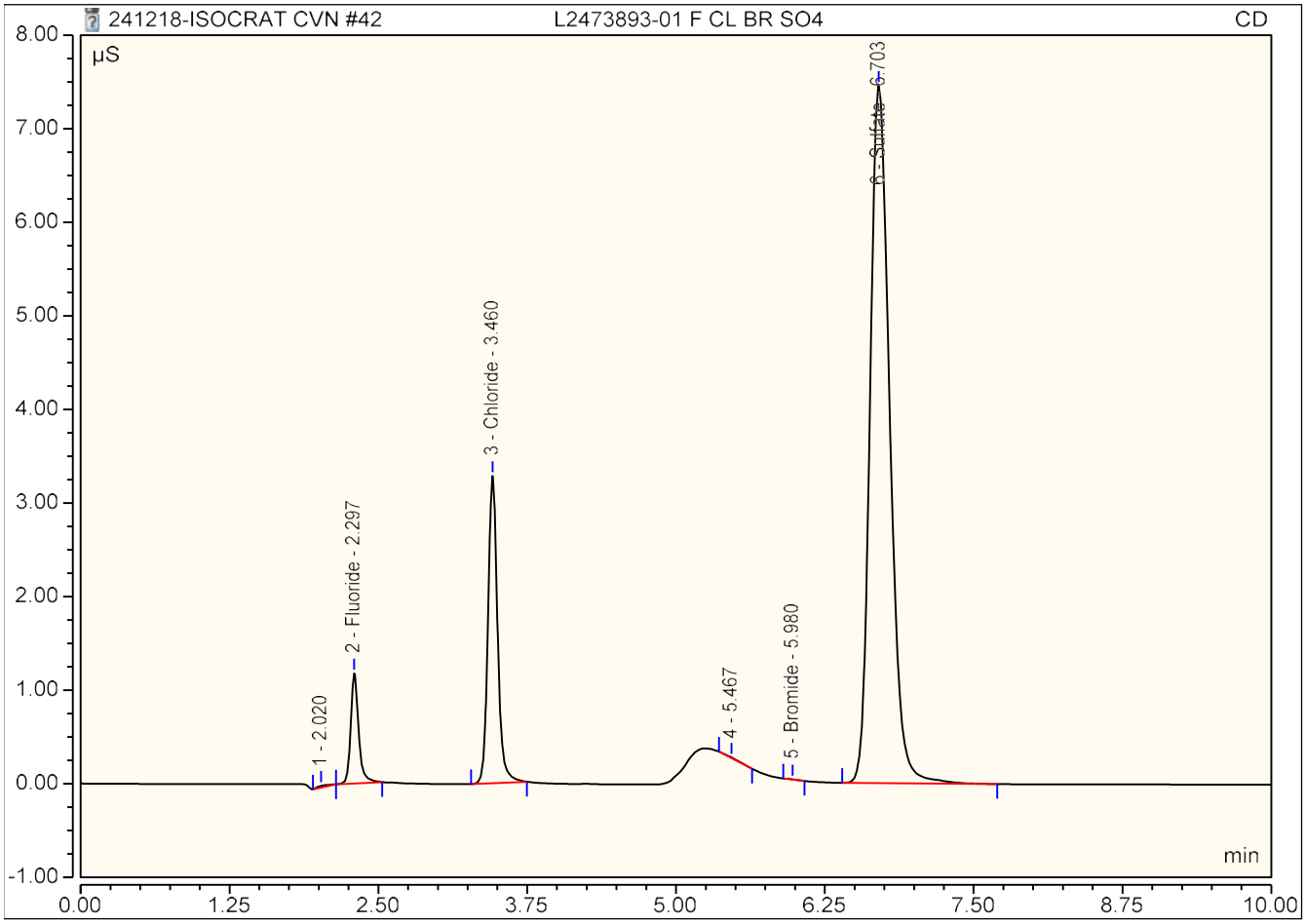
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	1.563	15.784	2.9899
3	3.41	**Chloride**	BMB*	193.763	1720.766	515.9866
6	6.32	**Sulfate**	BM *^	27.291	89.989	96.1462
7	6.84	**Nitrate**	MB*^	18.321	59.912	20.3399
TOTAL:				240.94	1886.45	635.46



Peak Integration Report

Sample Name:	**L2473893-01 F CL BR 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 / 15:24**	*Run Time:*	**10.00**

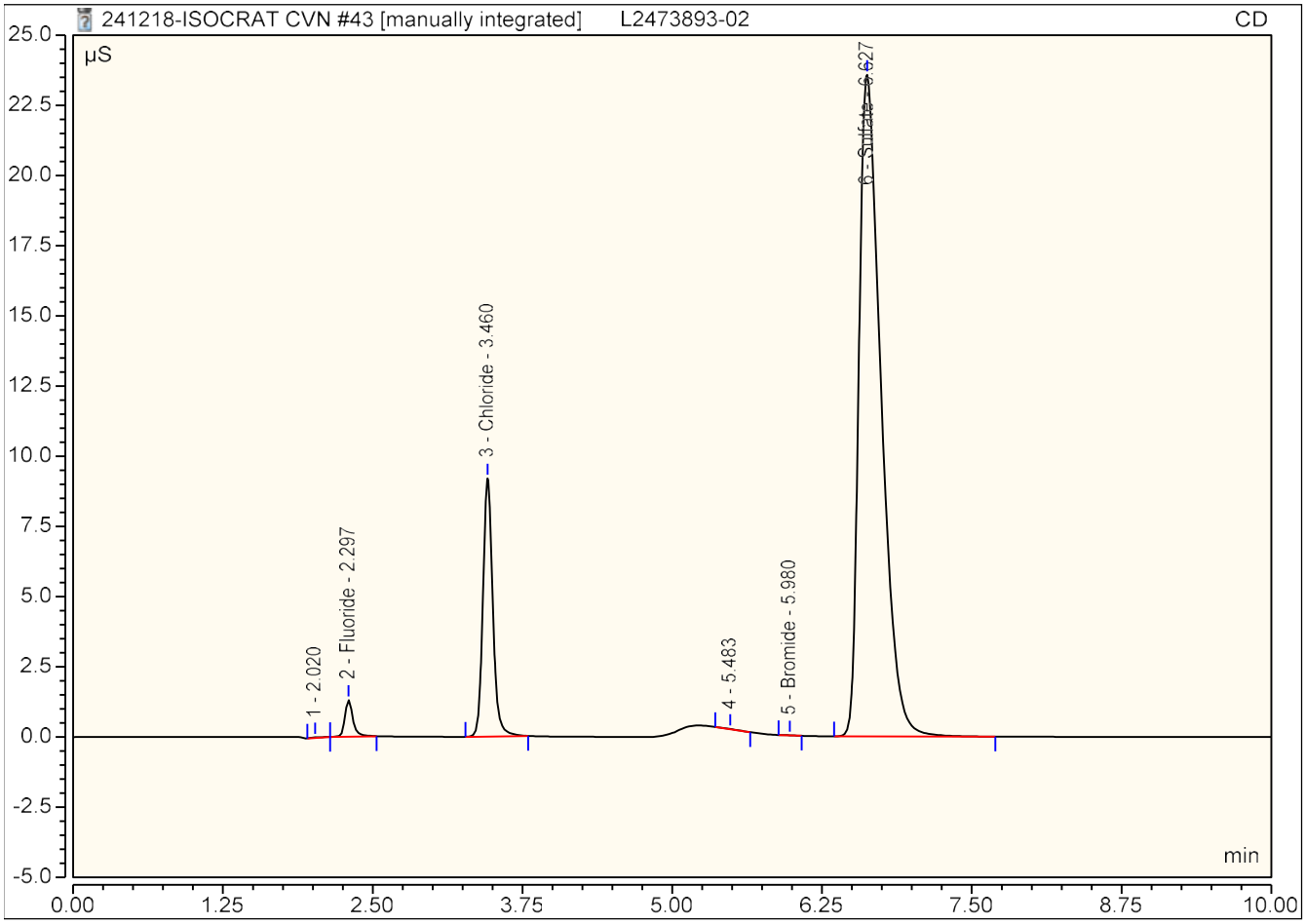
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.090	1.176	0.1928
3	3.46	**Chloride**	BMB	0.306	3.284	0.9331
5	5.98	**Bromide**	BMB	0.000	0.002	0.0312
6	6.70	**Sulfate**	BMB	1.430	7.453	5.2270
TOTAL:				1.83	11.91	6.38



Peak Integration Report

Sample Name:	**L2473893-02**	*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 / 15:37**	*Run Time:*	**10.00**

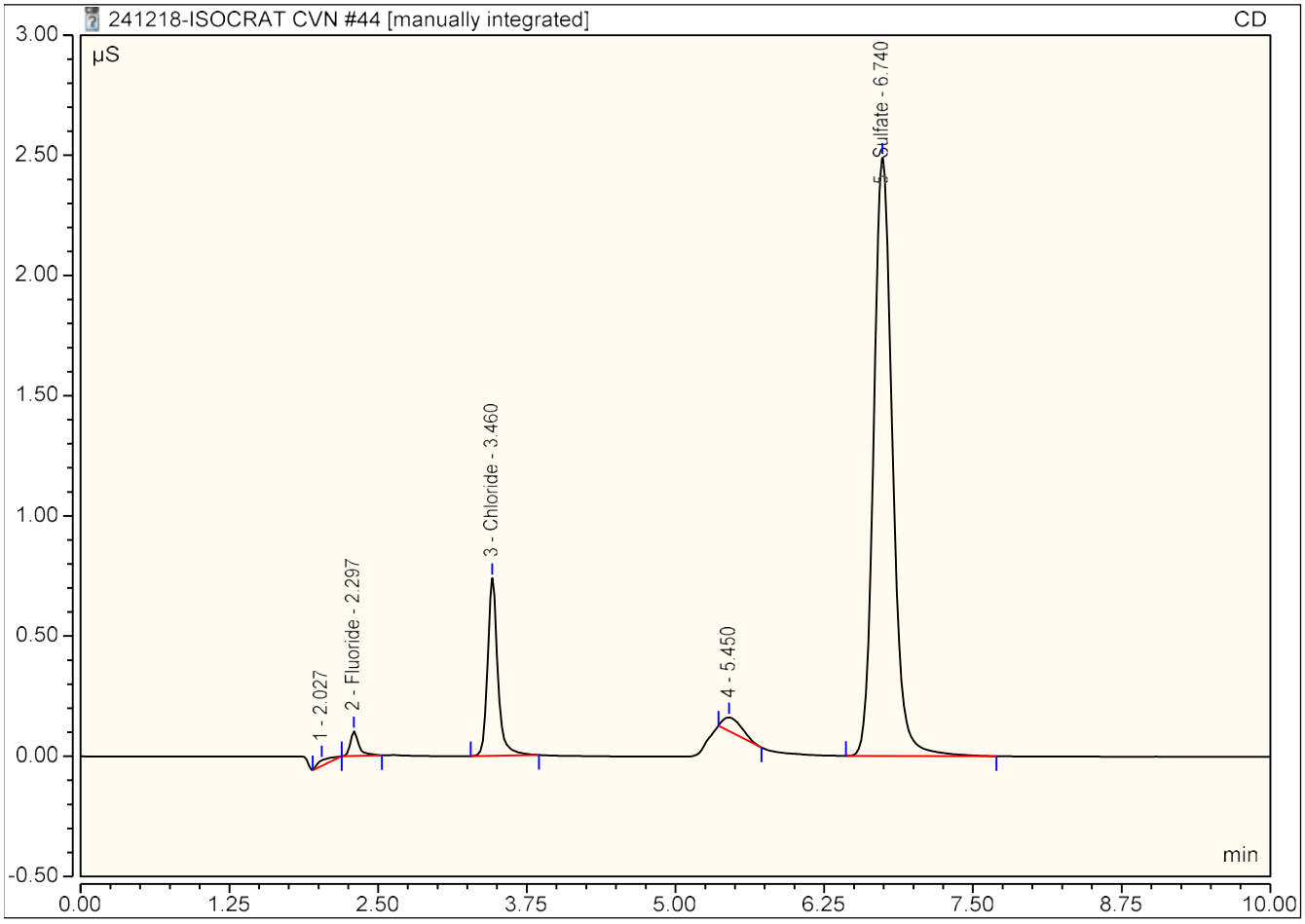
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.101	1.307	0.2138
3	3.46	**Chloride**	BMB*	0.879	9.192	2.4587
5	5.98	**Bromide**	BMB	0.000	0.003	0.0323
6	6.63	**Sulfate**	BMB	5.039	23.562	17.9140
TOTAL:				6.02	34.06	20.62



Peak Integration Report

Sample Name:	**XL2473893-02; 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 / 15:49**	*Run Time:*	**10.00**

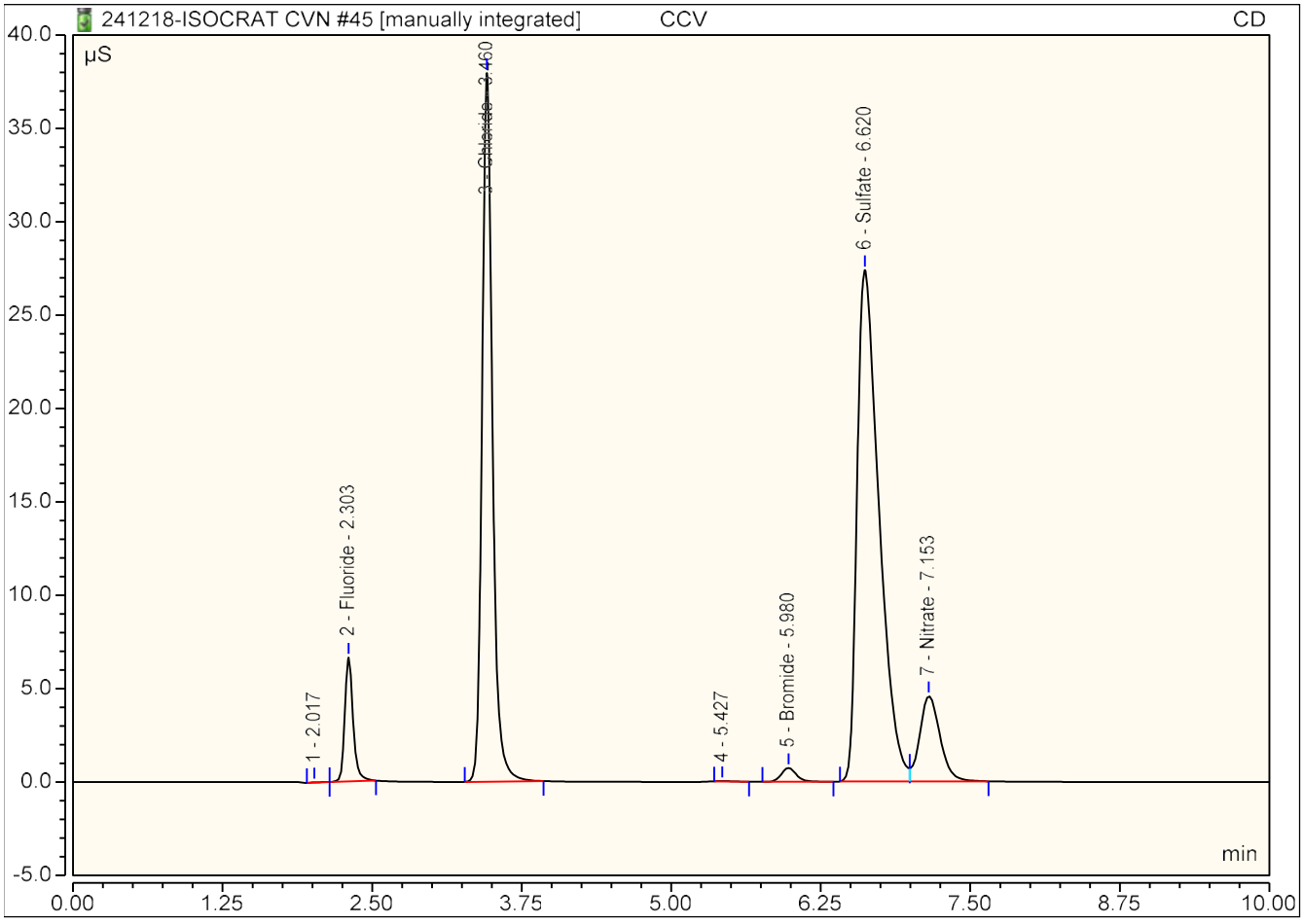
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.009	0.103	0.3792
3	3.46	**Chloride**	BMB*	0.073	0.739	3.1269
5	6.74	**Sulfate**	BMB	0.455	2.489	17.9989
TOTAL:				0.54	3.33	21.50



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 / 16:01**	*Run Time:*	**10.00**

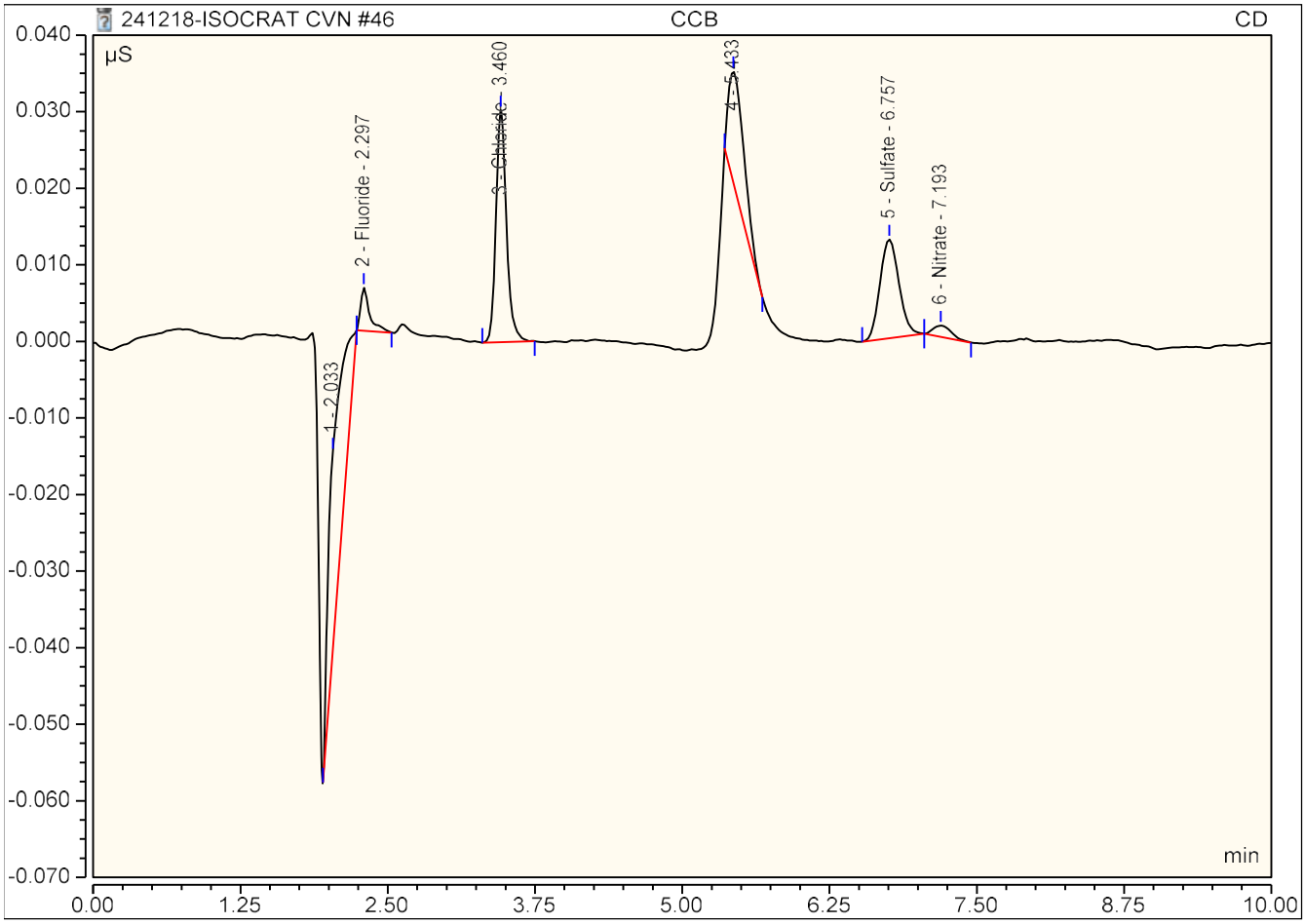
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.531	6.638	1.0303
3	3.46	**Chloride**	BMB*	3.840	37.939	10.3405
5	5.98	**Bromide**	BMB	0.110	0.746	0.9701
6	6.62	**Sulfate**	BM *	5.824	27.372	20.6765
7	7.15	**Nitrate**	MB*	0.899	4.566	1.0221
TOTAL:				11.20	77.26	34.04



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 / 16:13**	*Run Time:*	**10.00**

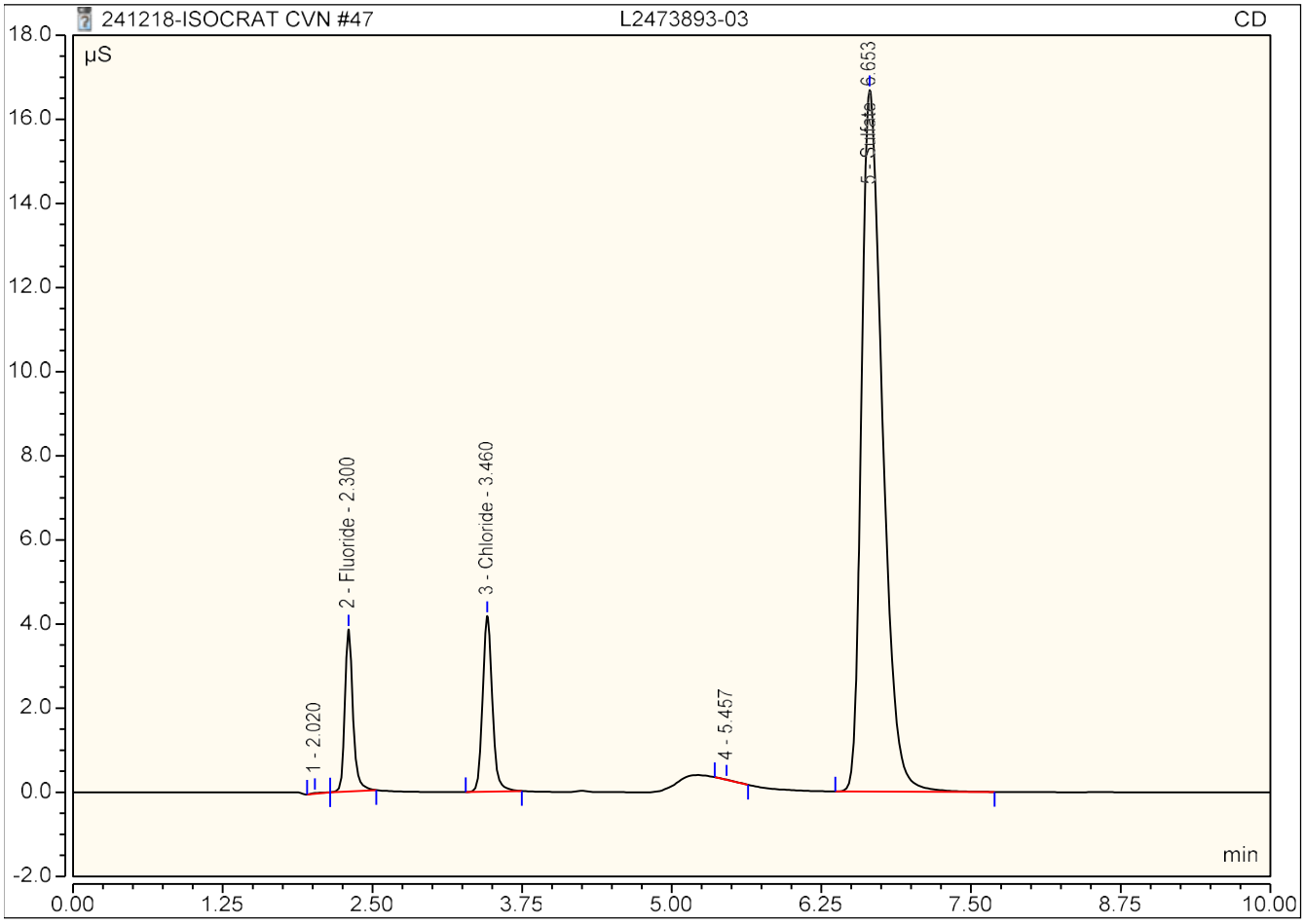
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.001	0.006	0.0226
3	3.46	**Chloride**	BMB	0.003	0.030	0.1259
5	6.76	**Sulfate**	BMB	0.002	0.013	0.2089
6	7.19	**Nitrate**	BMB	0.000	0.001	0.0255
TOTAL:				0.01	0.05	0.38



Peak Integration Report

Sample Name:	**L2473893-03**	*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 / 16:25**	*Run Time:*	**10.00**

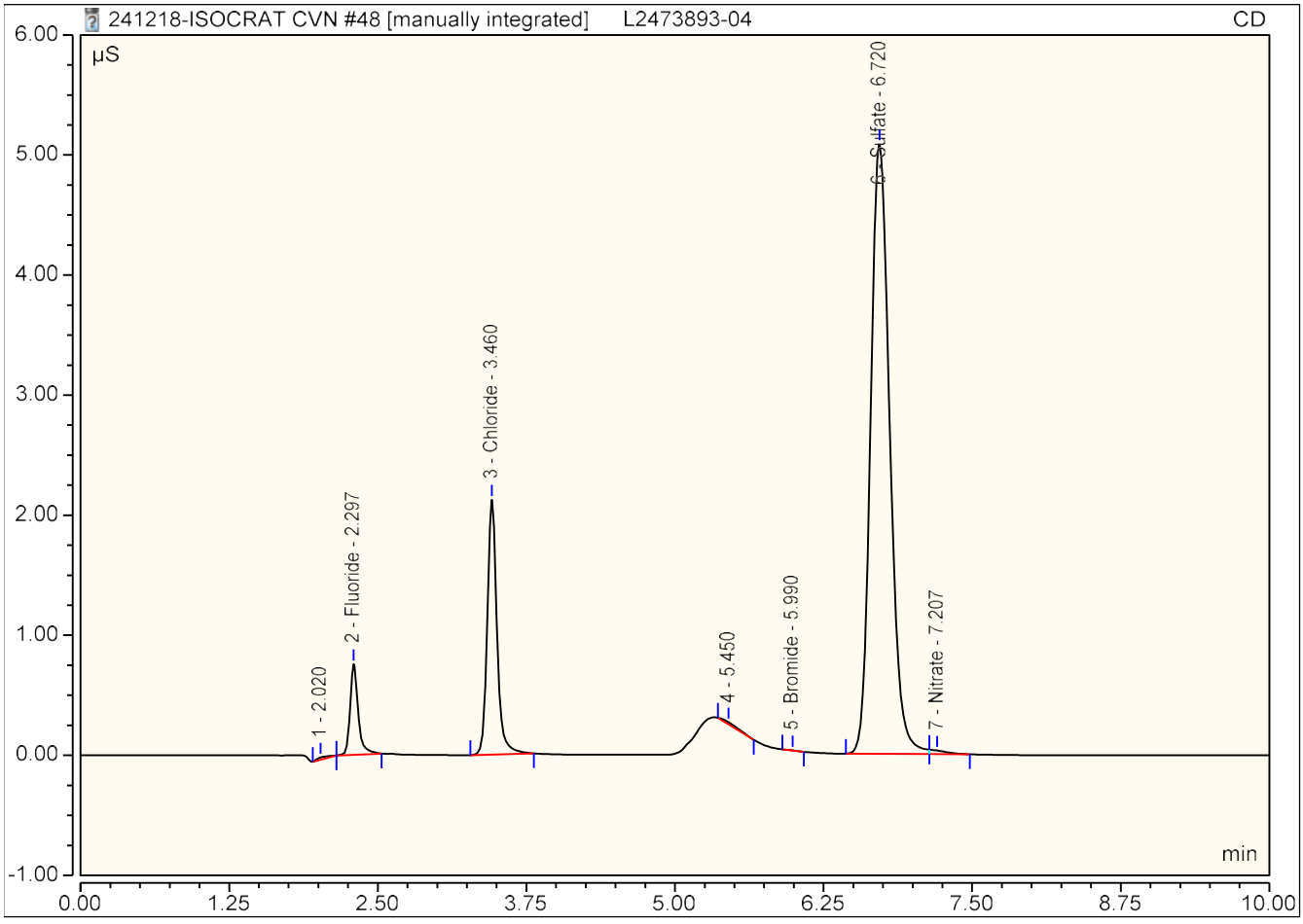
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.301	3.850	0.5927
3	3.46	**Chloride**	BMB	0.390	4.177	1.1562
5	6.65	**Sulfate**	BMB	3.401	16.674	12.1580
TOTAL:				4.09	24.70	13.91



Peak Integration Report

Sample Name:	**L2473893-04**	*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 / 16:37**	*Run Time:*	**10.00**

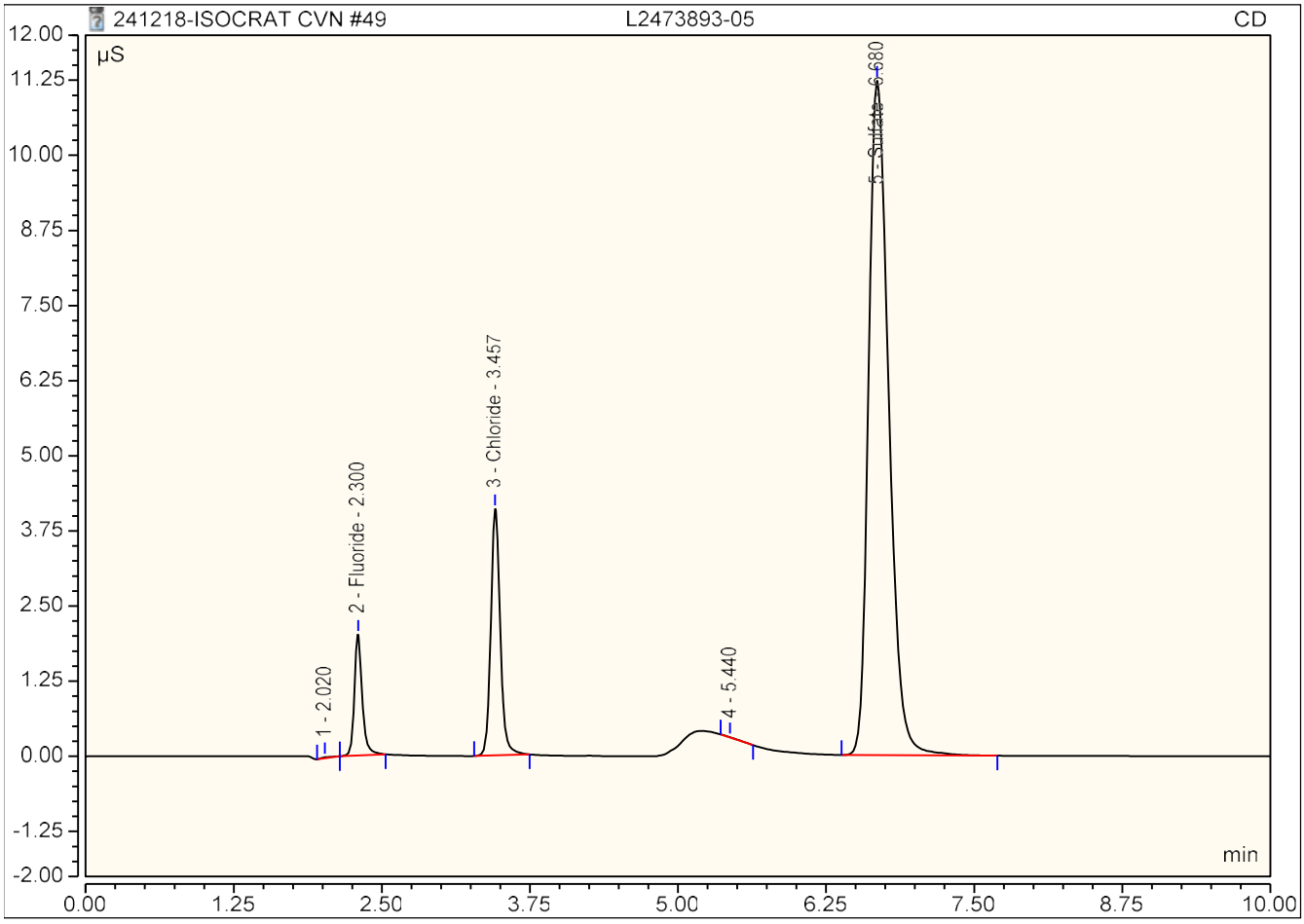
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.059	0.754	0.1332
3	3.46	**Chloride**	BMB*	0.202	2.123	0.6555
5	5.99	**Bromide**	BMB	0.000	0.002	0.0311
6	6.72	**Sulfate**	BM *	0.947	5.081	3.5296
7	7.21	**Nitrate**	MB*	0.005	0.030	0.0310
TOTAL:				1.21	7.99	4.38



Peak Integration Report

Sample Name:	**L2473893-05**	*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 / 16:49**	*Run Time:*	**10.00**

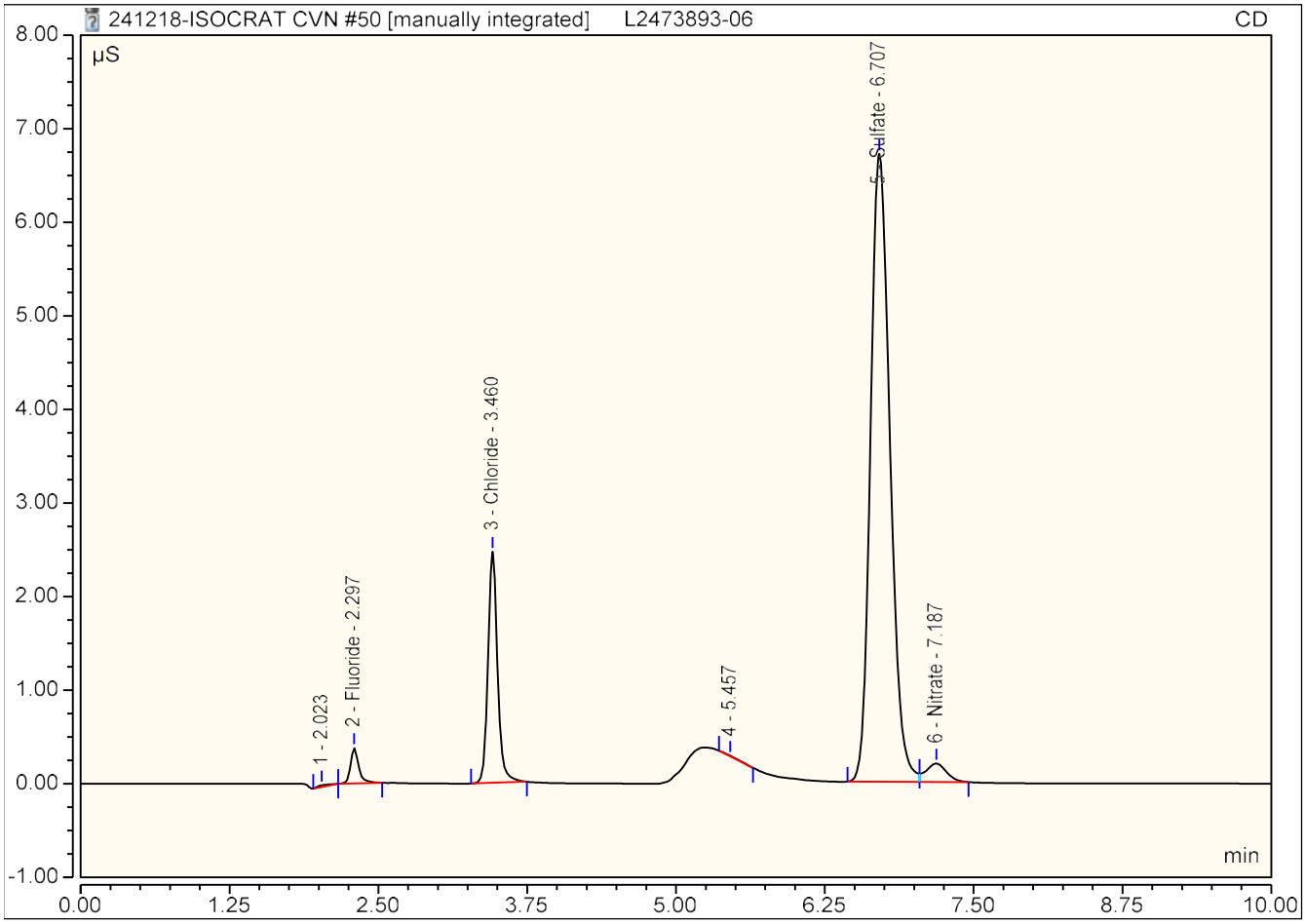
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.155	2.012	0.3151
3	3.46	**Chloride**	BMB	0.381	4.099	1.1316
5	6.68	**Sulfate**	BMB	2.213	11.222	7.9802
TOTAL:				2.75	17.33	9.43



Peak Integration Report

Sample Name:	**L2473893-06**	*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 / 17:01**	*Run Time:*	**10.00**

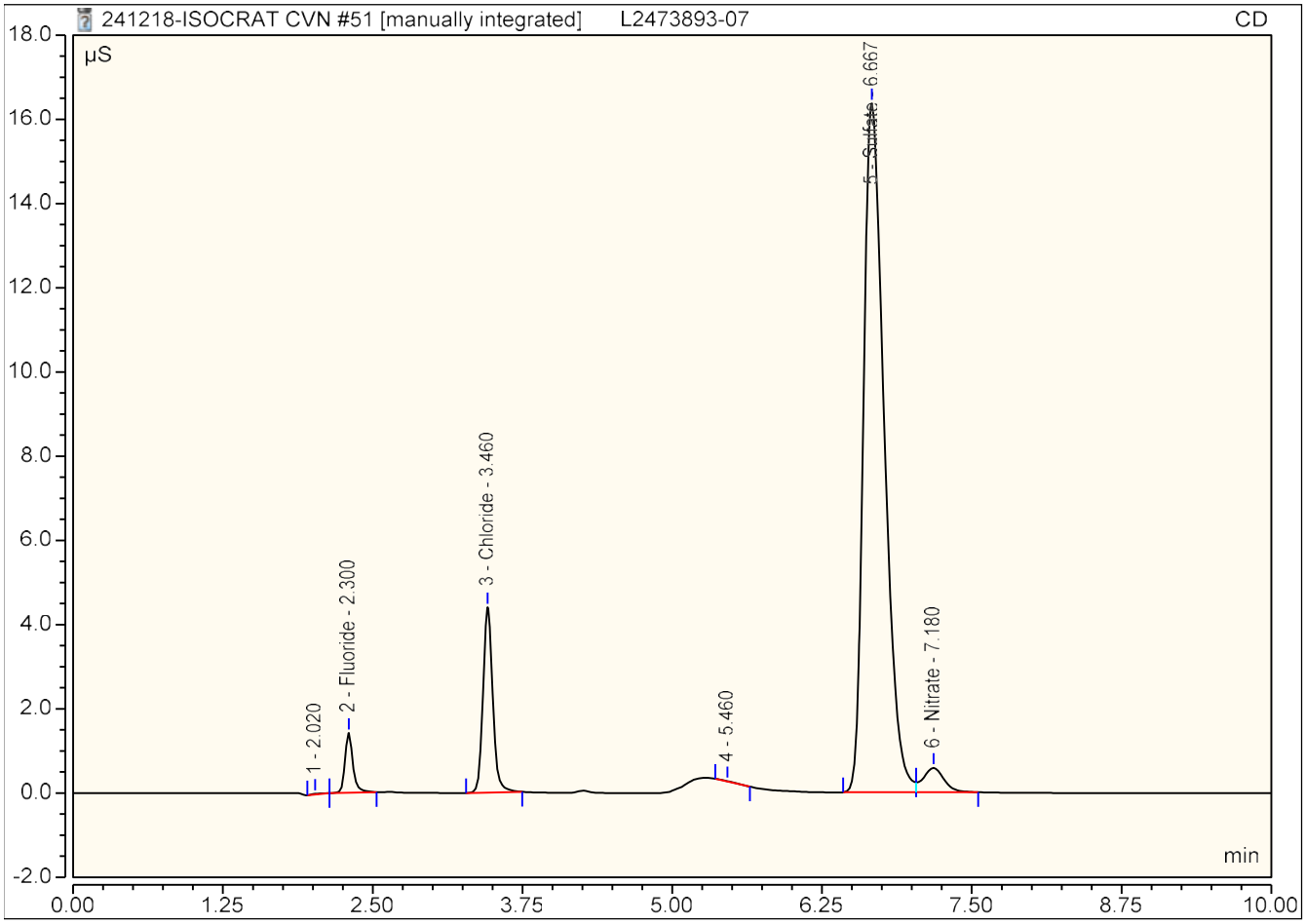
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.030	0.380	0.0794
3	3.46	**Chloride**	BMB	0.230	2.470	0.7305
5	6.71	**Sulfate**	BM *	1.272	6.710	4.6715
6	7.19	**Nitrate**	MB*	0.039	0.197	0.0689
TOTAL:				1.57	9.76	5.55



Peak Integration Report

Sample Name:	**L2473893-07**	*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 / 17:13**	*Run Time:*	**10.00**

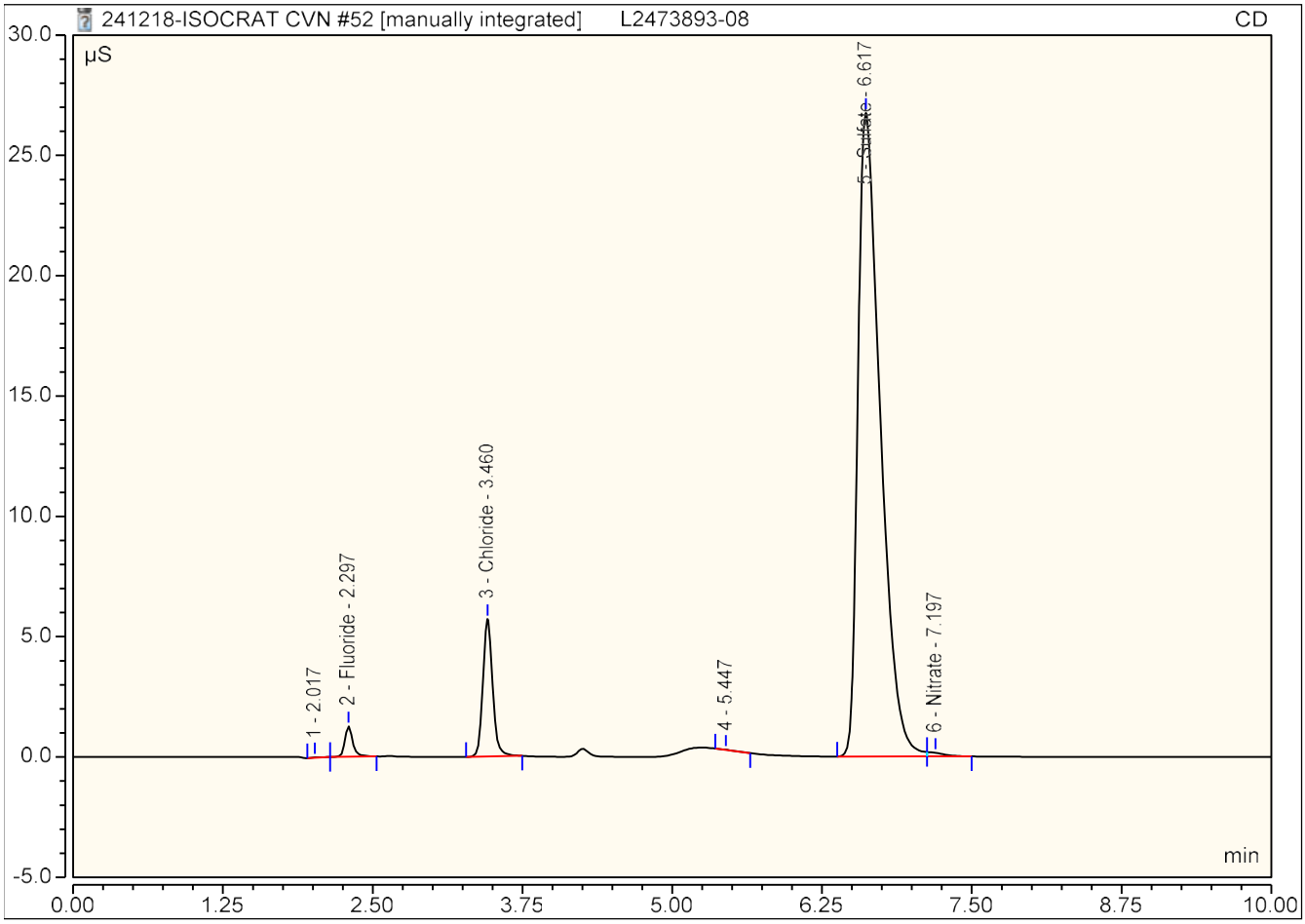
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.109	1.418	0.2284
3	3.46	**Chloride**	BMB	0.412	4.397	1.2138
5	6.67	**Sulfate**	BM *	3.269	16.359	11.6926
6	7.18	**Nitrate**	MB*	0.117	0.580	0.1546
TOTAL:				3.91	22.75	13.29



Peak Integration Report

Sample Name:	**L2473893-08**	*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 / 17:25**	*Run Time:*	**10.00**

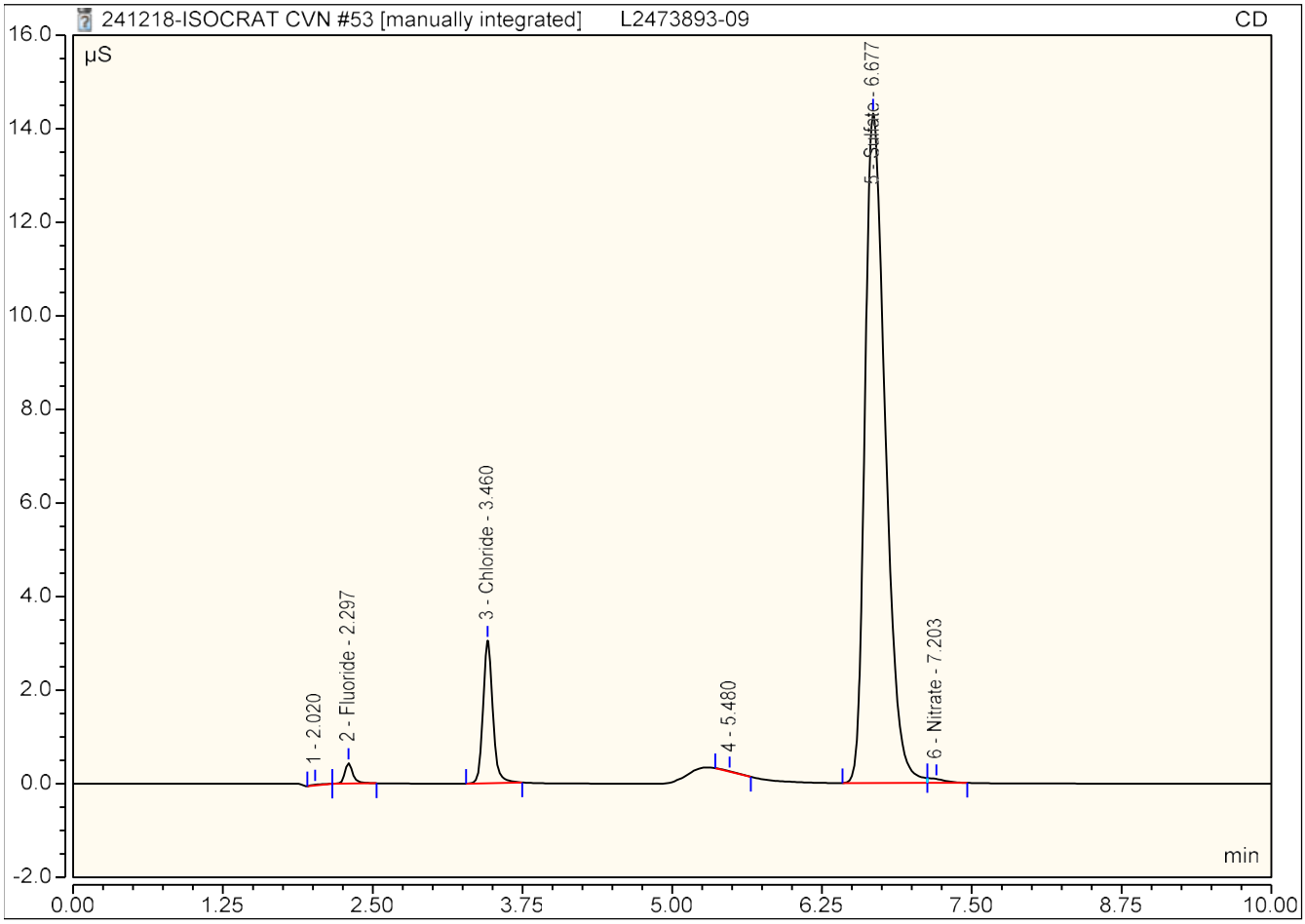
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.097	1.268	0.2065
3	3.46	**Chloride**	BMB	0.534	5.706	1.5391
5	6.62	**Sulfate**	BM *	5.801	26.743	20.5945
6	7.20	**Nitrate**	MB*	0.026	0.151	0.0543
TOTAL:				6.46	33.87	22.39



Peak Integration Report

Sample Name:	**L2473893-09**	*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 / 17:37**	*Run Time:*	**10.00**

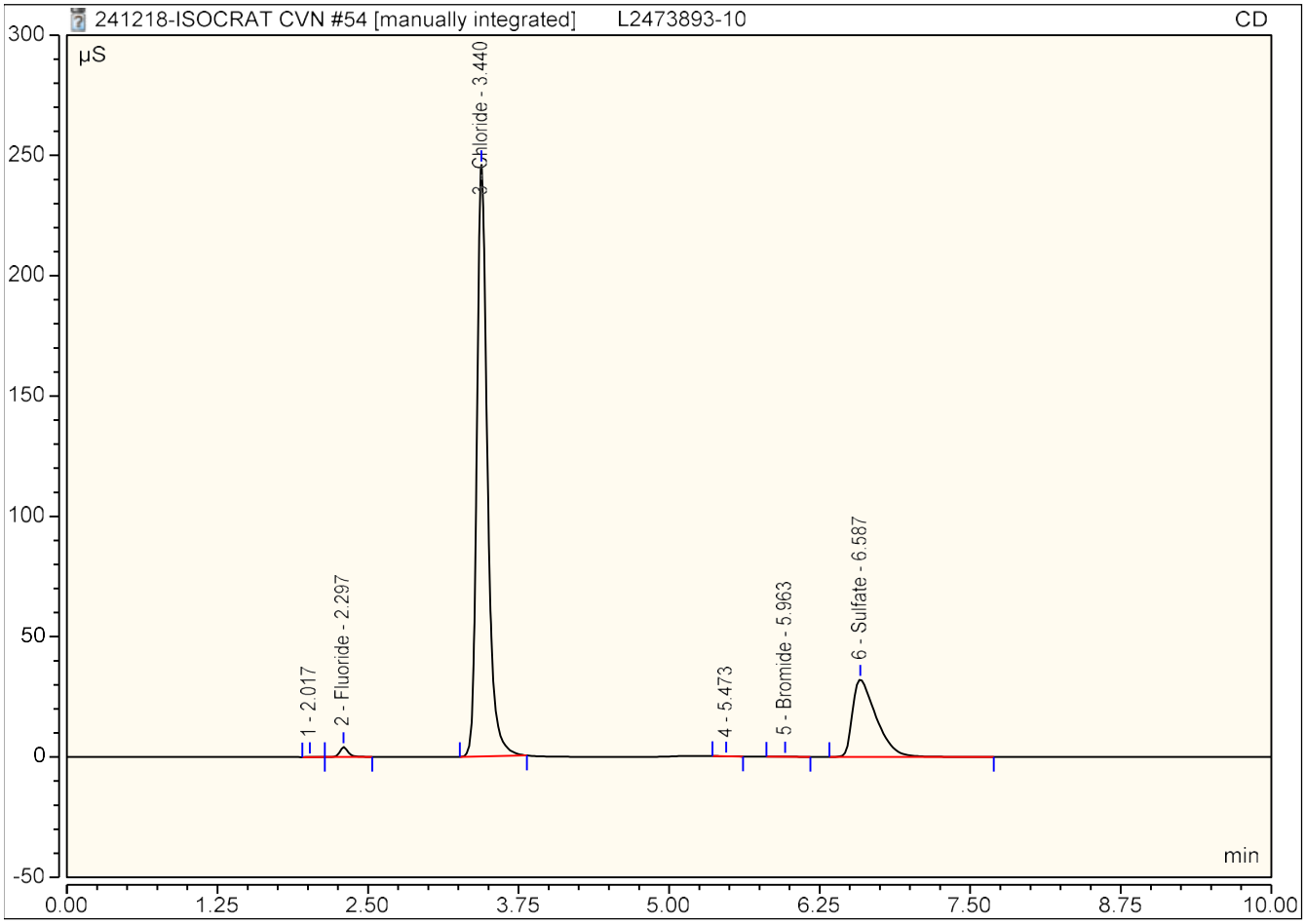
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.035	0.440	0.0872
3	3.46	**Chloride**	BMB	0.284	3.048	0.8745
5	6.68	**Sulfate**	BM *	2.826	14.310	10.1371
6	7.20	**Nitrate**	MB*	0.015	0.085	0.0416
TOTAL:				3.16	17.88	11.14



Peak Integration Report

Sample Name:	**L2473893-10**	*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 / 17:50**	*Run Time:*	**10.00**

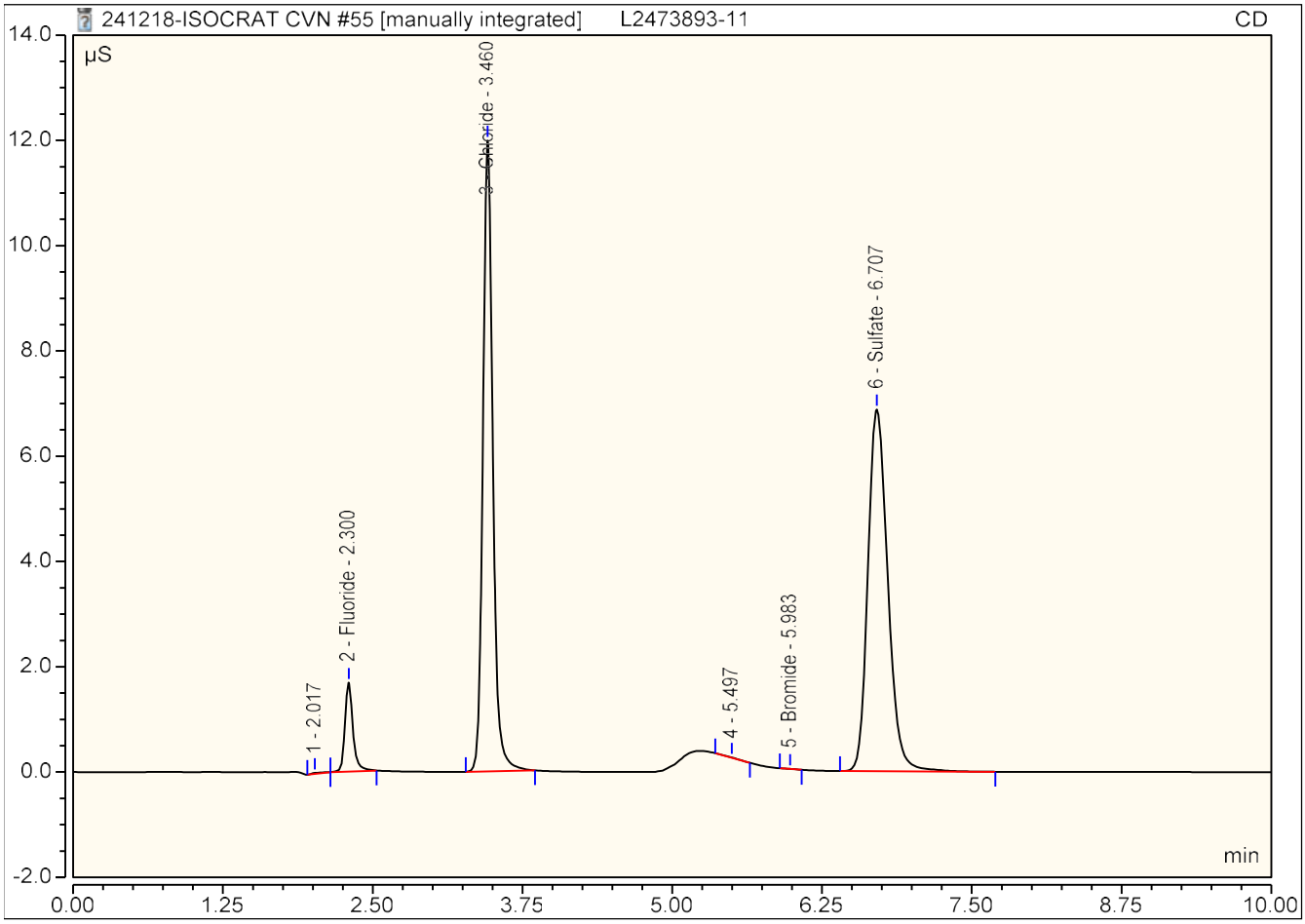
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.330	4.157	0.6479
3	3.44	**Chloride**	BMB*	25.128	245.782	67.0174
5	5.96	**Bromide**	BMB	0.019	0.136	0.1941
6	6.59	**Sulfate**	BMB	7.331	32.116	25.9741
TOTAL:				32.81	282.19	93.83



Peak Integration Report

Sample Name:	**L2473893-11**	*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 / 18:02**	*Run Time:*	**10.00**

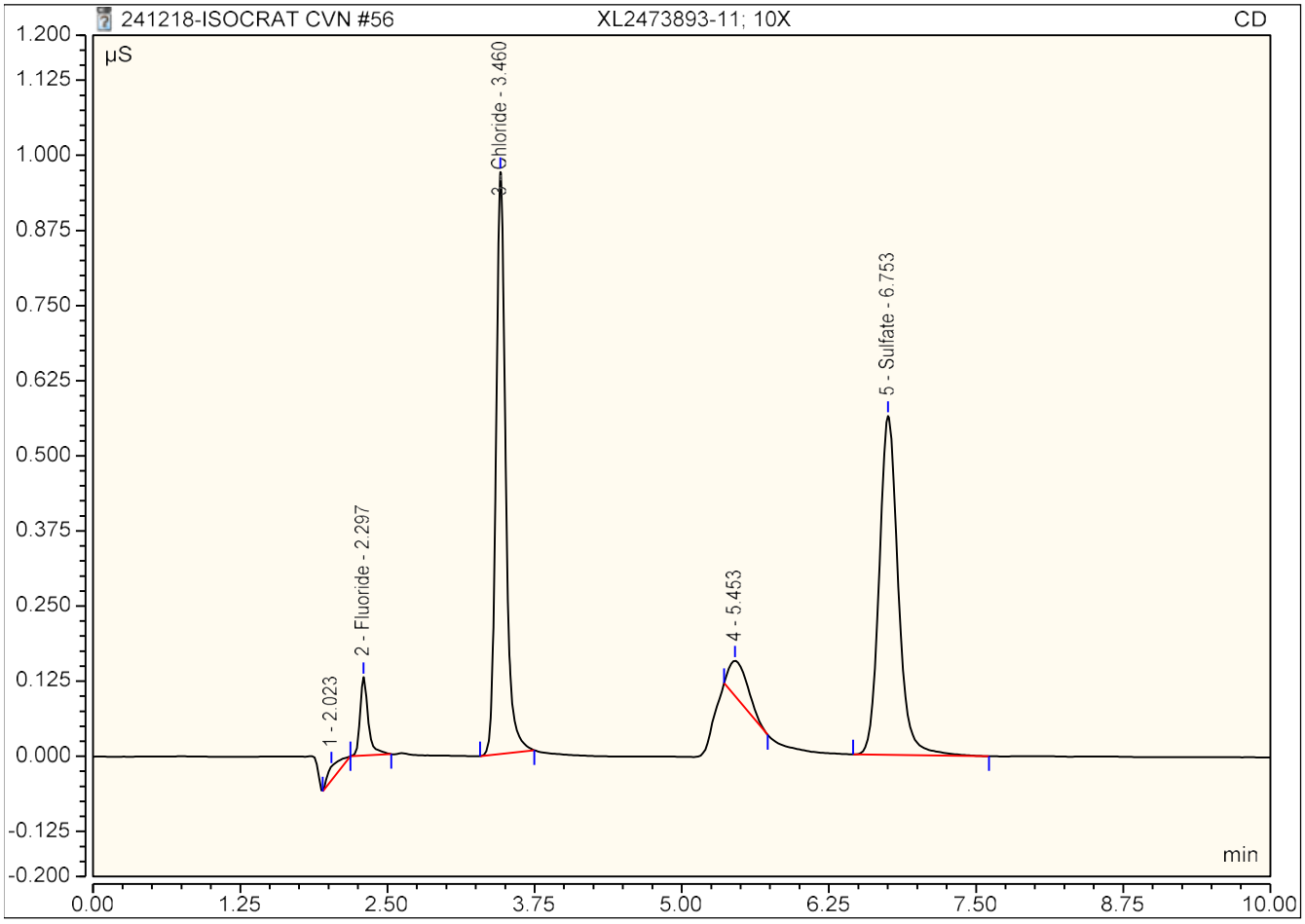
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.129	1.686	0.2656
3	3.46	**Chloride**	BMB*	1.149	11.986	3.1766
5	5.98	**Bromide**	BMB	0.000	0.003	0.0319
6	6.71	**Sulfate**	BMB	1.320	6.875	4.8423
TOTAL:				2.60	20.55	8.32



Peak Integration Report

Sample Name:	**XL2473893-11; 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 / 18:14**	*Run Time:*	**10.00**

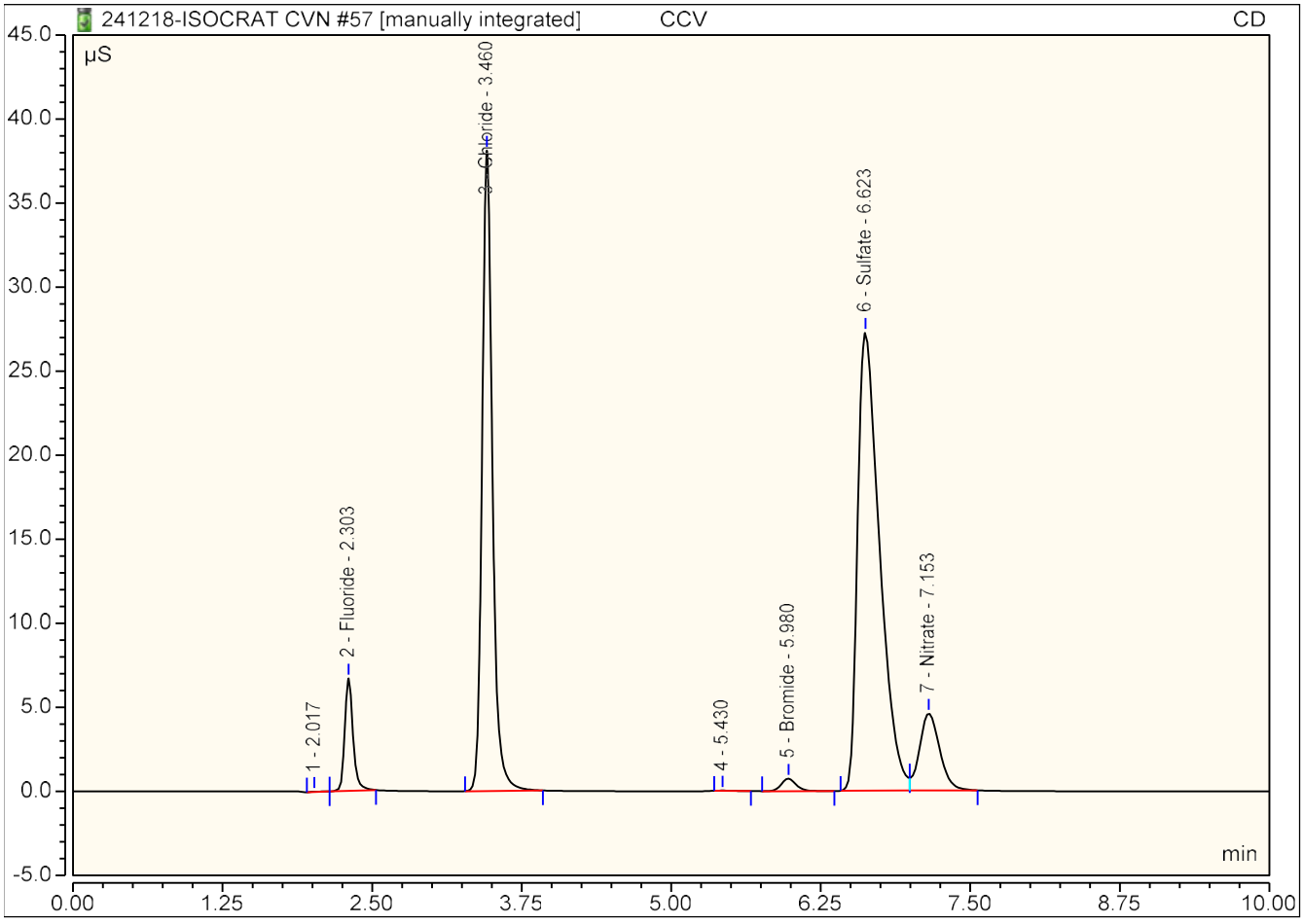
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.011	0.131	0.4175
3	3.46	**Chloride**	BMB	0.092	0.968	3.6333
5	6.75	**Sulfate**	BMB	0.106	0.564	5.7198
TOTAL:				0.21	1.66	9.77



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 / 18:26**	*Run Time:*	**10.00**

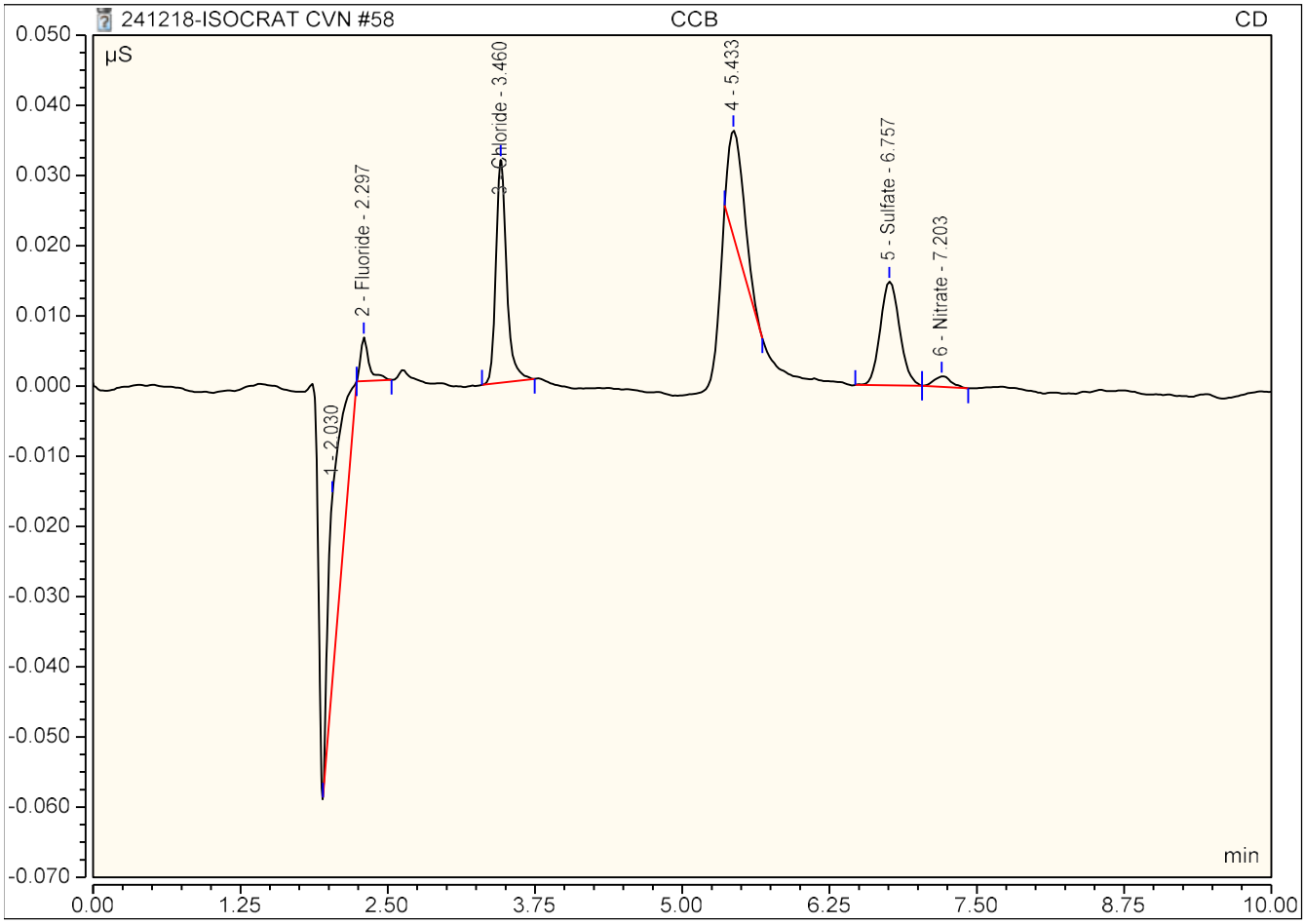
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.531	6.689	1.0305
3	3.46	**Chloride**	BMB*	3.834	38.110	10.3251
5	5.98	**Bromide**	BMB	0.109	0.745	0.9655
6	6.62	**Sulfate**	BM *	5.802	27.262	20.5994
7	7.15	**Nitrate**	MB*	0.896	4.582	1.0182
TOTAL:				11.17	77.39	33.94



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 / 18:38**	*Run Time:*	**10.00**

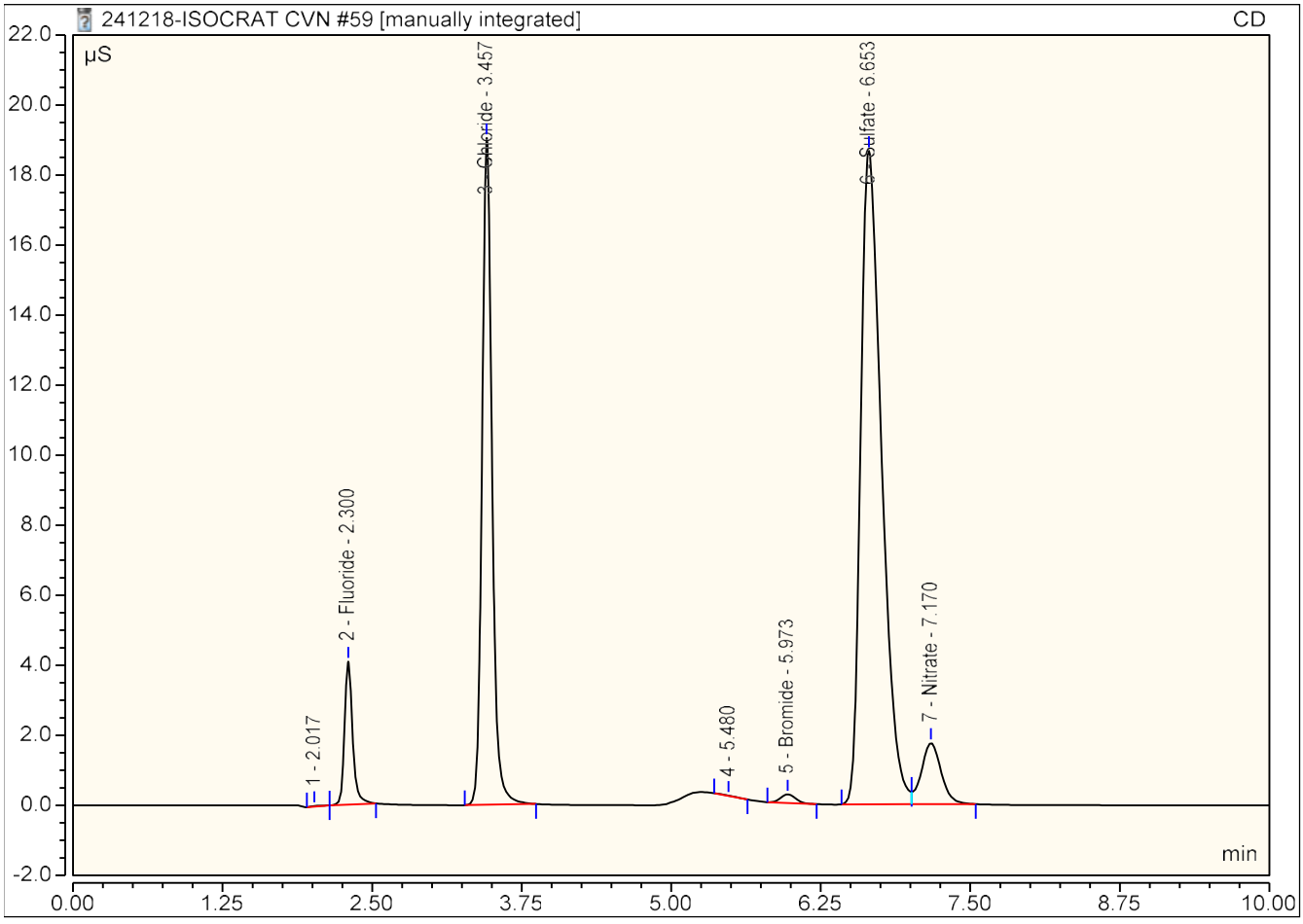
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.001	0.006	0.0226
3	3.46	**Chloride**	BMB	0.003	0.032	0.1265
5	6.76	**Sulfate**	BMB	0.003	0.015	0.2103
6	7.20	**Nitrate**	BMB	0.000	0.001	0.0255
TOTAL:				0.01	0.05	0.38



Peak Integration Report

Sample Name:	**L2473893-01 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 / 18:50**	*Run Time:*	**10.00**

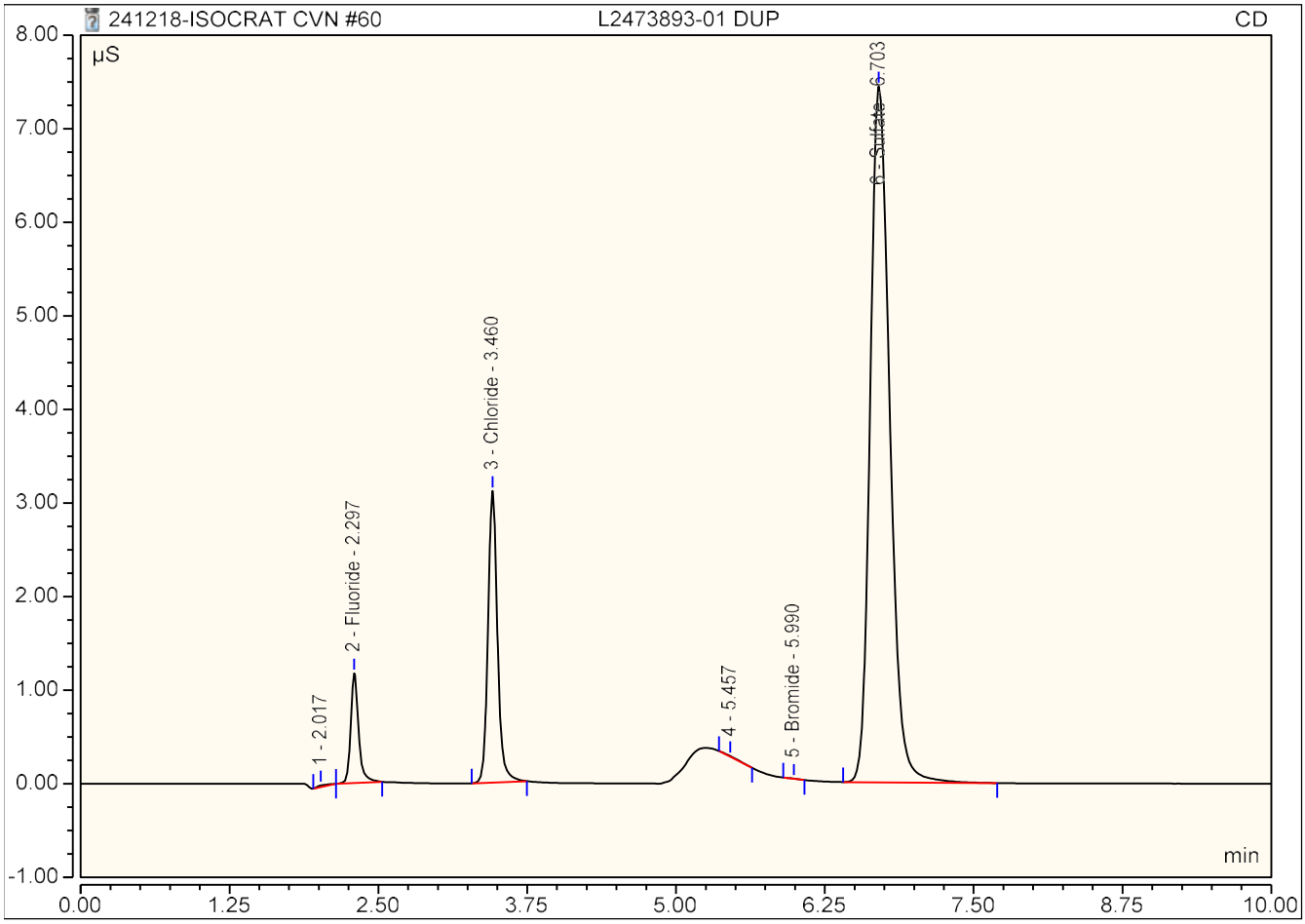
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.318	4.088	0.6253
3	3.46	**Chloride**	BMB*	1.846	19.039	5.0331
5	5.97	**Bromide**	BMB	0.036	0.246	0.3353
6	6.65	**Sulfate**	BM *	3.784	18.657	13.5043
7	7.17	**Nitrate**	MB*	0.335	1.749	0.3967
TOTAL:				6.32	43.78	19.89



Peak Integration Report

Sample Name:	**L2473893-01 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 / 19:02**	*Run Time:*	**10.00**

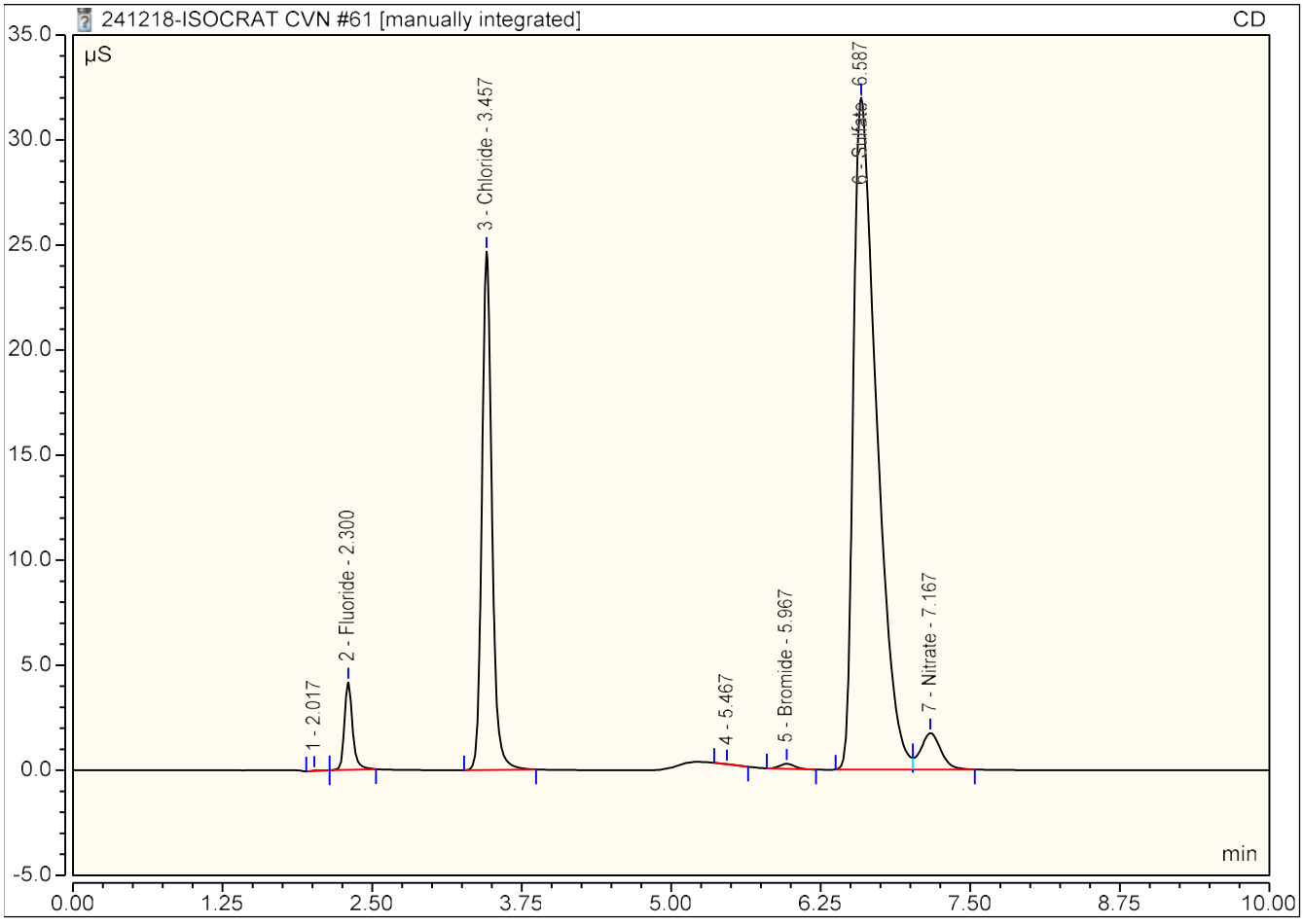
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.089	1.173	0.1914
3	3.46	**Chloride**	BMB	0.288	3.116	0.8852
5	5.99	**Bromide**	BMB	0.000	0.002	0.0312
6	6.70	**Sulfate**	BMB	1.422	7.437	5.1983
TOTAL:				1.80	11.73	6.31



Peak Integration Report

Sample Name:	**L2473893-02 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 / 19:14**	*Run Time:*	**10.00**

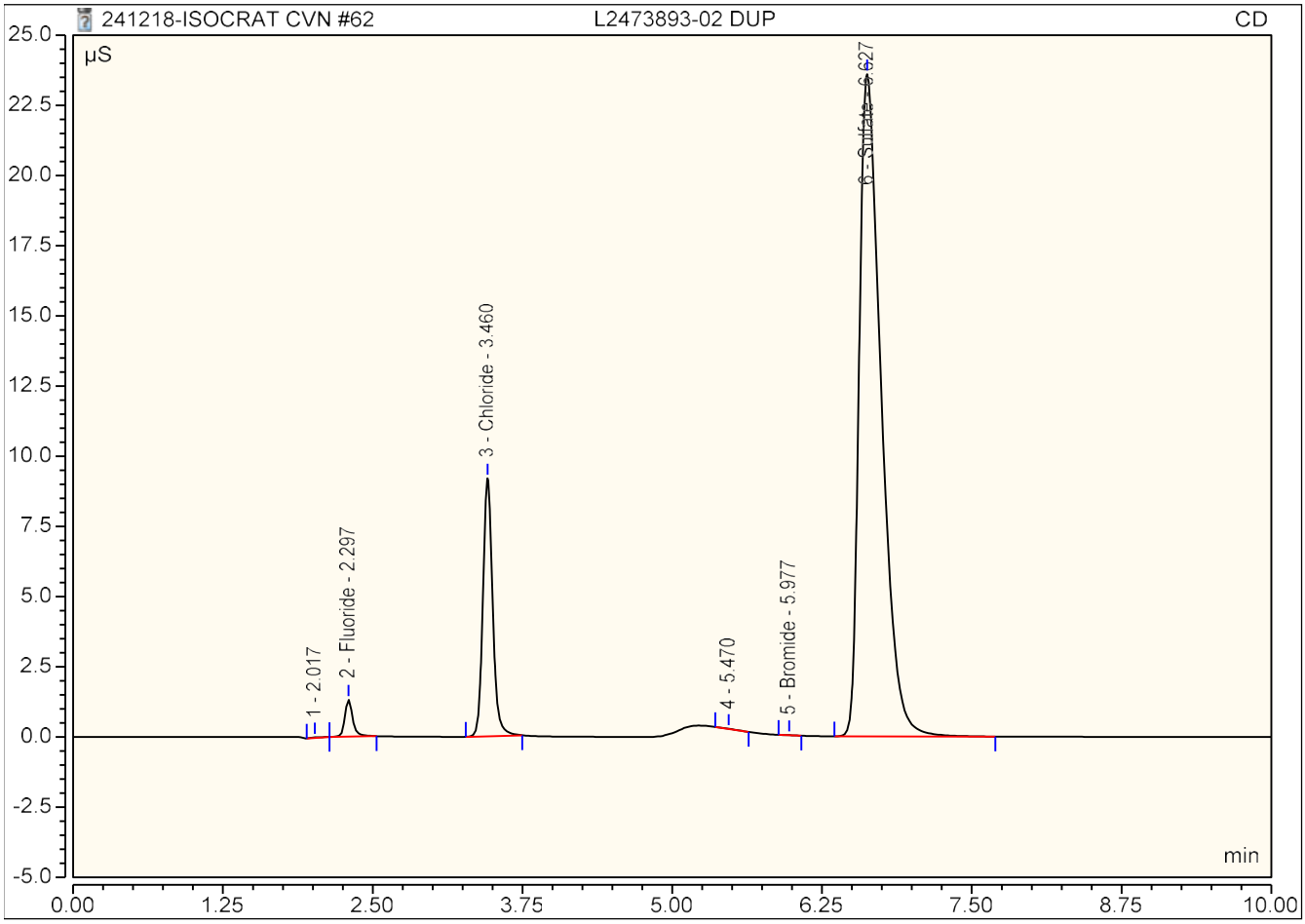
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.326	4.167	0.6404
3	3.46	**Chloride**	BMB*	2.396	24.666	6.4965
5	5.97	**Bromide**	BMB	0.035	0.245	0.3291
6	6.59	**Sulfate**	BM *	7.201	31.968	25.5164
7	7.17	**Nitrate**	MB*	0.339	1.732	0.4009
TOTAL:				10.30	62.78	33.38



Peak Integration Report

Sample Name:	**L2473893-02 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 / 19:26**	*Run Time:*	**10.00**

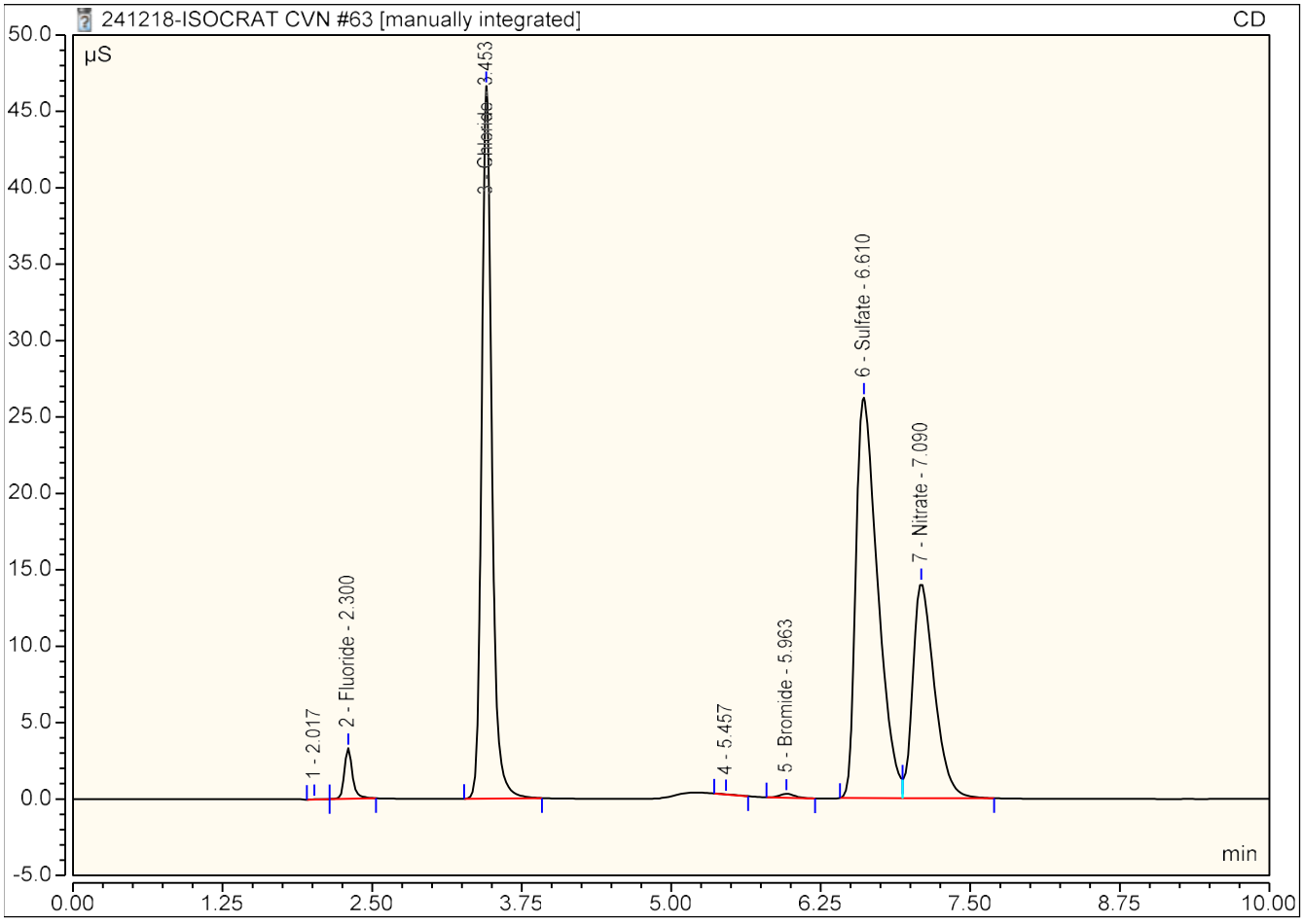
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.101	1.319	0.2130
3	3.46	**Chloride**	BMB	0.867	9.185	2.4261
5	5.98	**Bromide**	BMB	0.000	0.003	0.0323
6	6.63	**Sulfate**	BMB	5.023	23.587	17.8595
TOTAL:				5.99	34.09	20.53



Peak Integration Report

Sample Name:	**L2473927-01 CL SO4 BR 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 / 19:38**	*Run Time:*	**10.00**

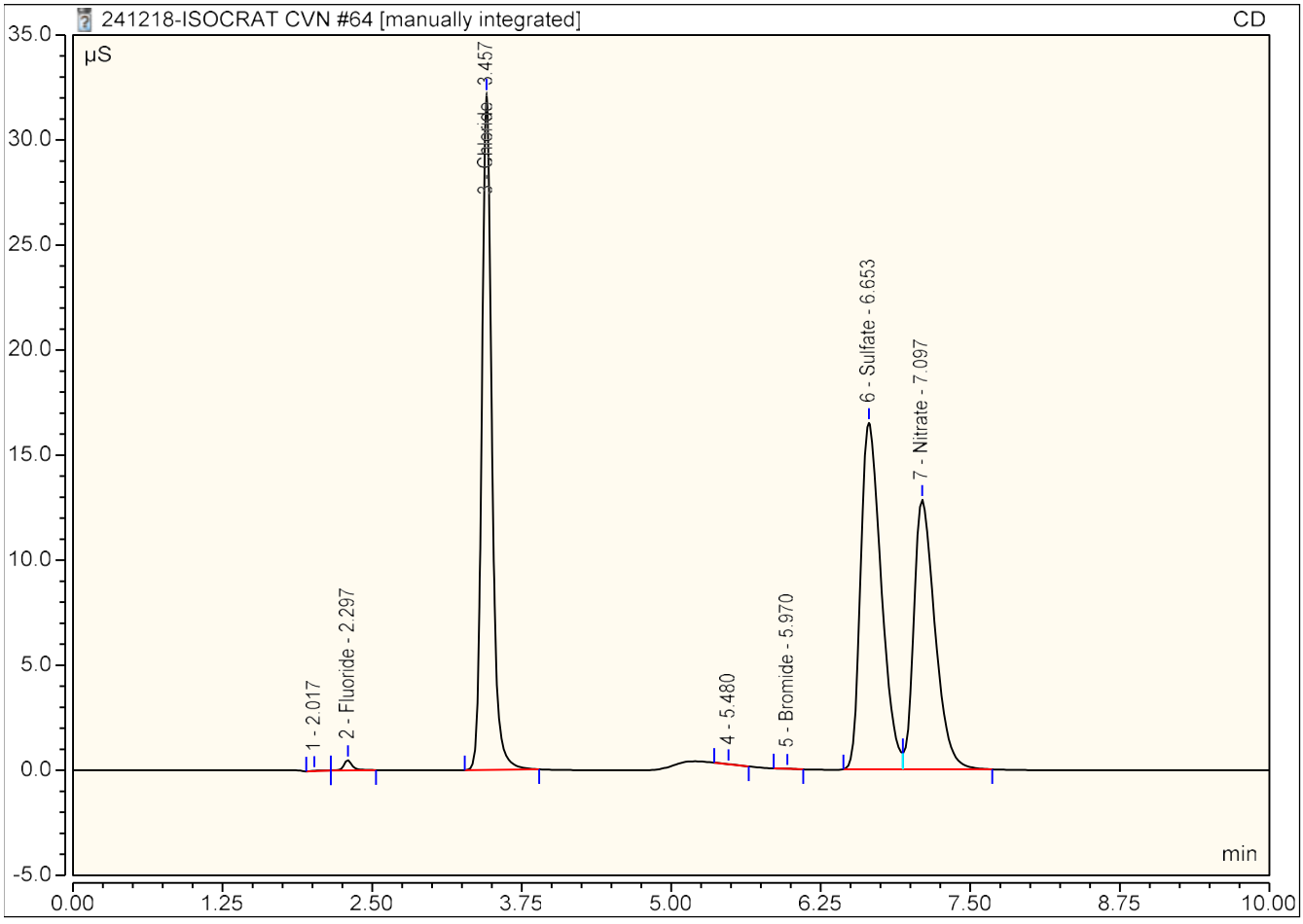
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.257	3.306	0.5098
3	3.45	**Chloride**	BMB*	4.608	46.634	12.3848
5	5.96	**Bromide**	BMB	0.037	0.260	0.3482
6	6.61	**Sulfate**	BM *	5.563	26.194	19.7585
7	7.09	**Nitrate**	MB*	2.944	14.058	3.2900
TOTAL:				13.41	90.45	36.29



Peak Integration Report

Sample Name:	**L2473927-01 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 / 19:50**	*Run Time:*	**10.00**

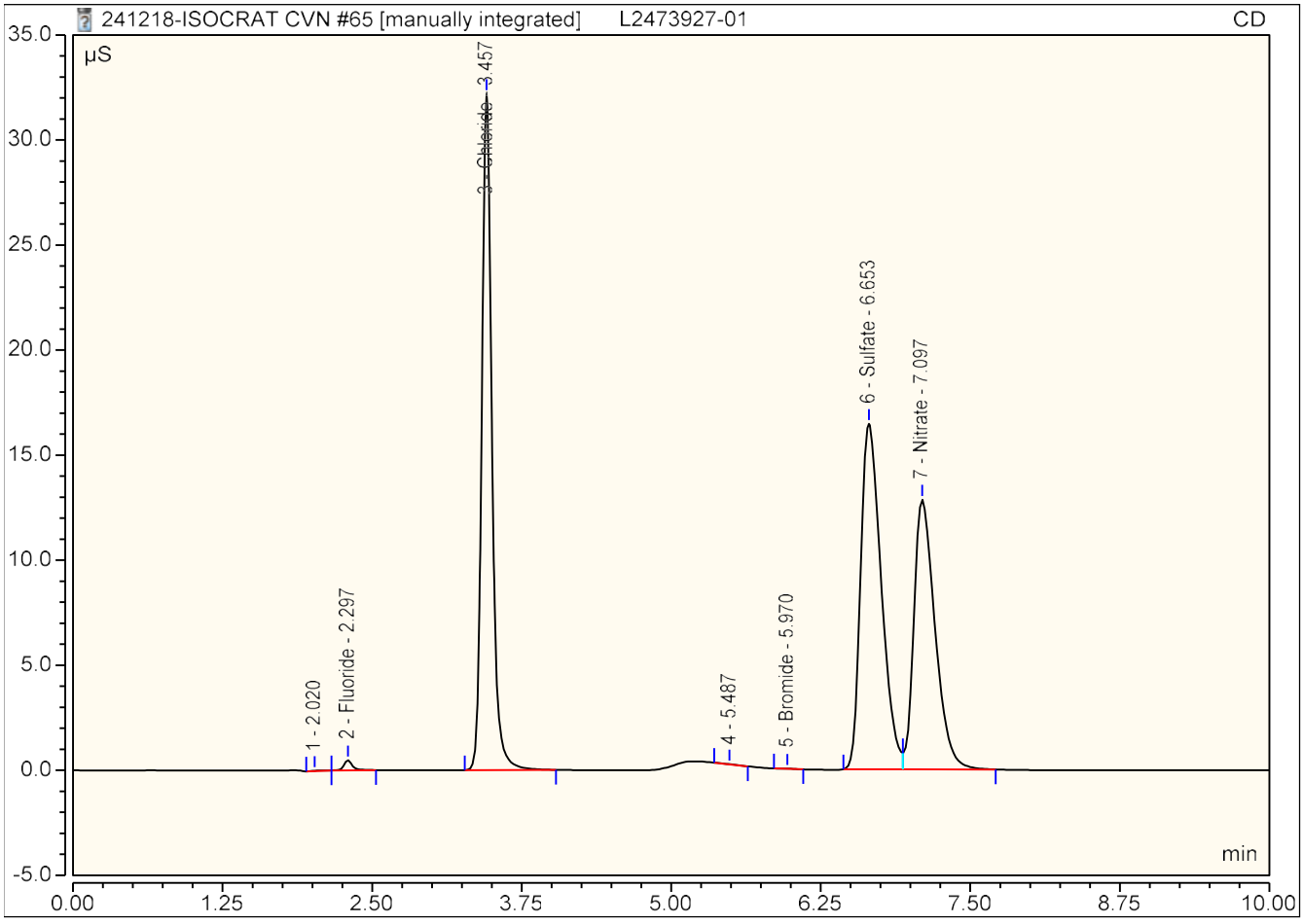
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.039	0.484	0.0950
3	3.46	**Chloride**	BMB*	3.153	32.185	8.5119
5	5.97	**Bromide**	BMB	0.001	0.012	0.0419
6	6.65	**Sulfate**	BM *	3.279	16.489	11.7273
7	7.10	**Nitrate**	MB*	2.631	12.828	2.9425
TOTAL:				9.10	62.00	23.32



Peak Integration Report

Sample Name:	**L2473927-01**	*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 / 20:02**	*Run Time:*	**10.00**

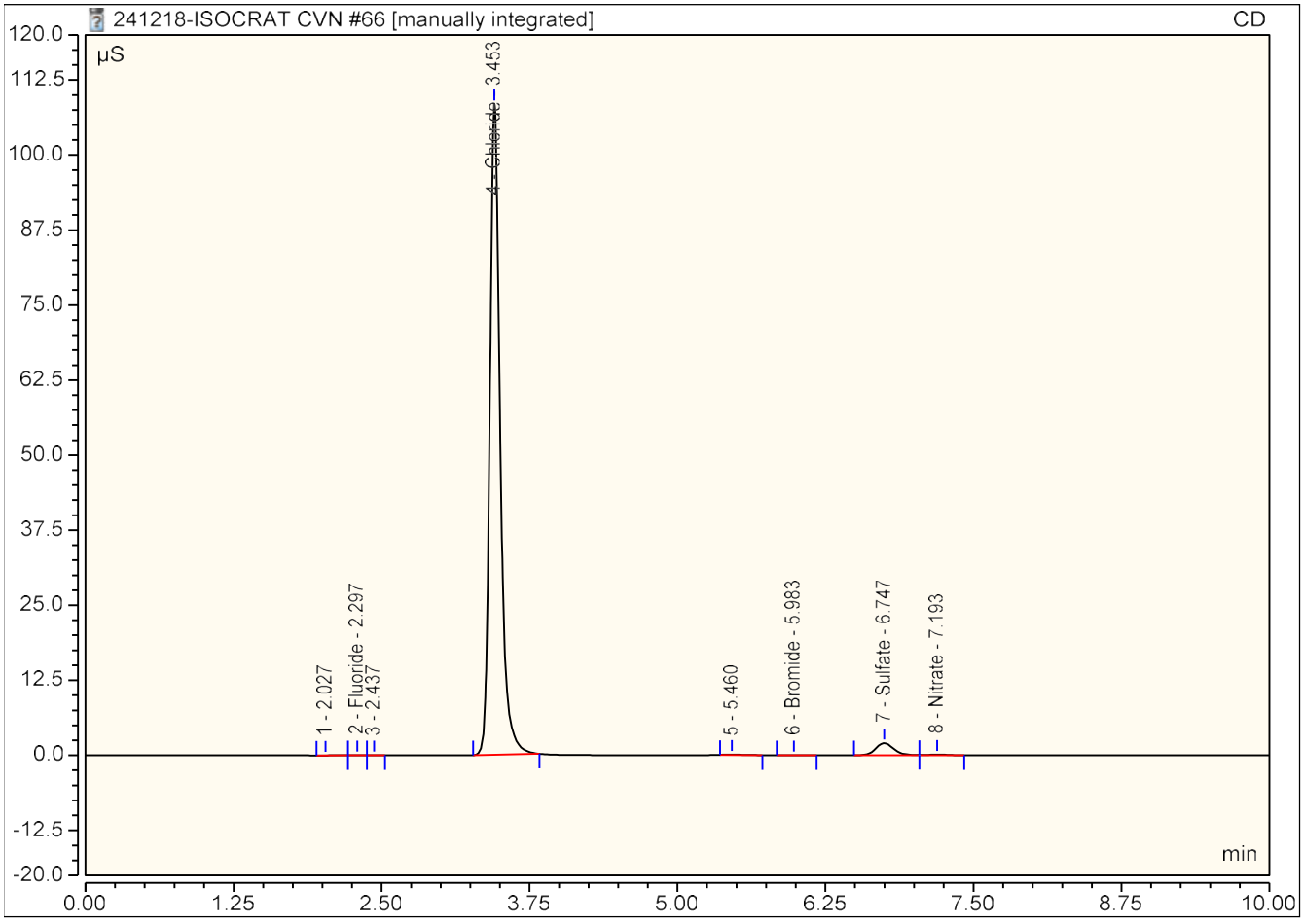
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.038	0.482	0.0945
3	3.46	**Chloride**	BMB*	3.163	32.184	8.5391
5	5.97	**Bromide**	BMB	0.001	0.012	0.0415
6	6.65	**Sulfate**	BM *	3.277	16.447	11.7220
7	7.10	**Nitrate**	MB*	2.636	12.840	2.9478
TOTAL:				9.12	61.96	23.34



Peak Integration Report

Sample Name:	**L2473912-01 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 / 20:15**	*Run Time:*	**10.00**

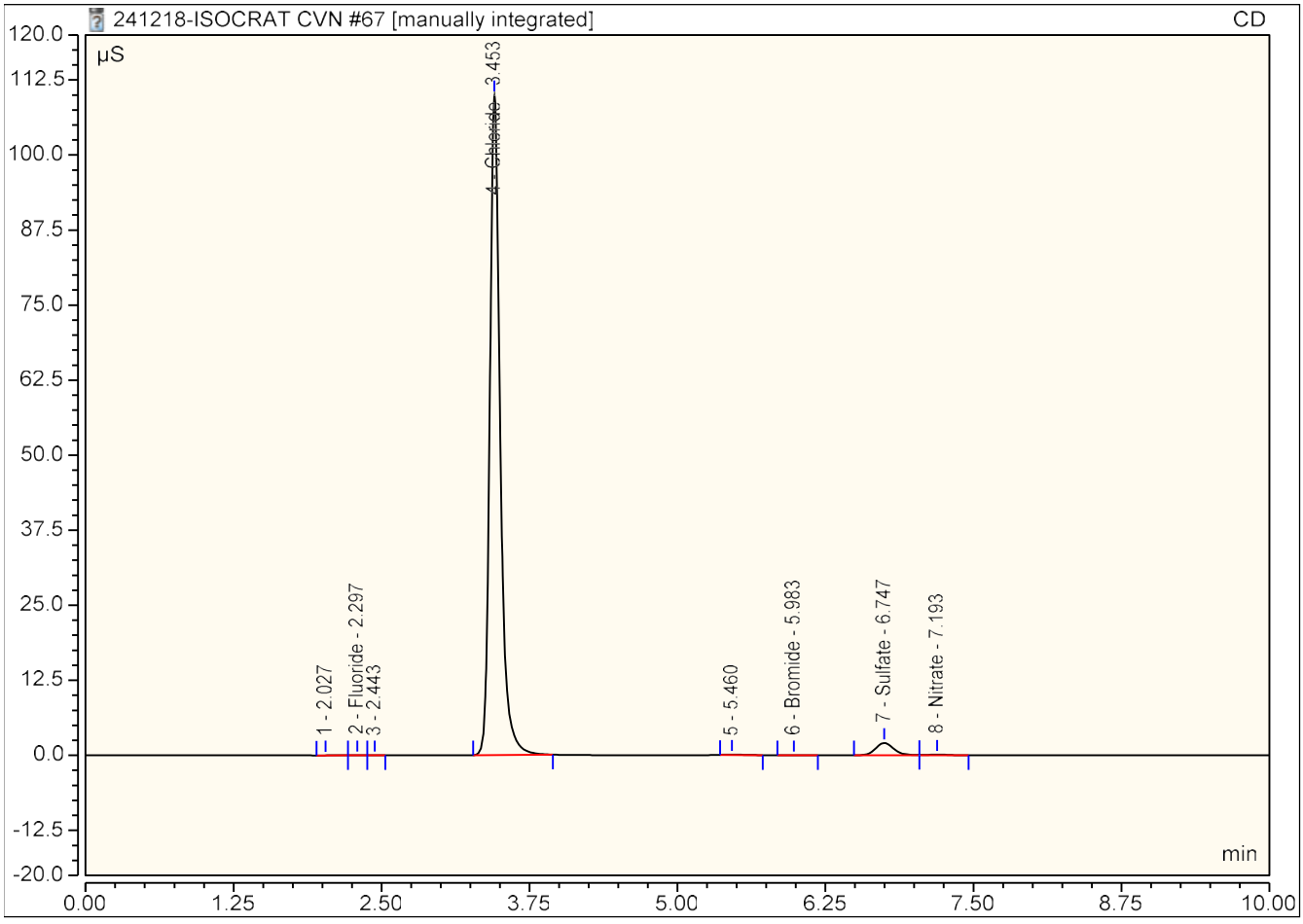
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.001	0.014	0.5866
4	3.45	**Chloride**	BMB*	11.070	108.414	739.7544
6	5.98	**Bromide**	BMB	0.002	0.012	1.1043
7	6.75	**Sulfate**	BM *	0.361	2.022	36.7288
8	7.19	**Nitrate**	MB*	0.023	0.116	1.2630
TOTAL:				11.46	110.58	779.44



Peak Integration Report

Sample Name:	**L2473912-02; 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 / 20:27**	*Run Time:*	**10.00**

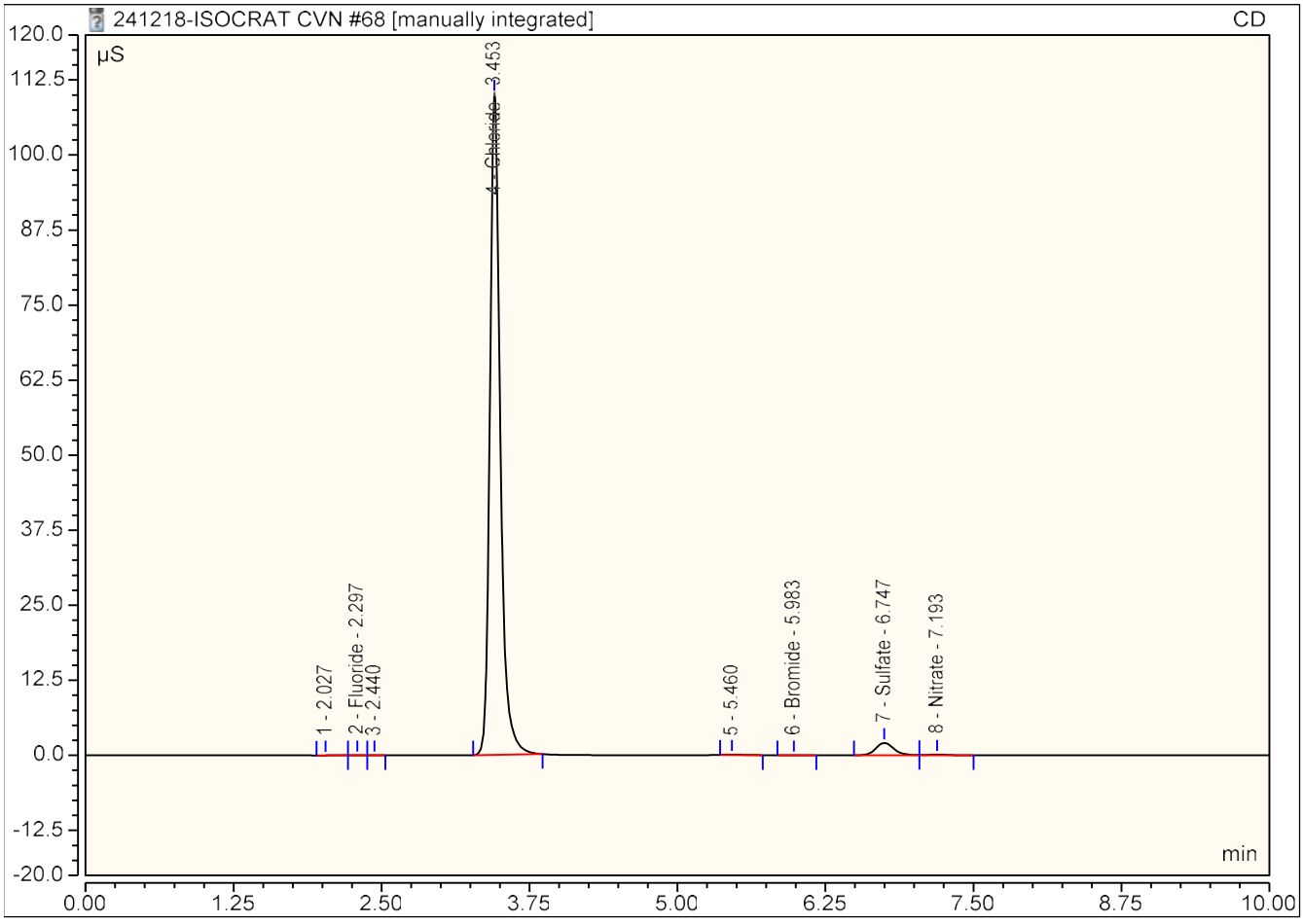
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.001	0.014	0.5870
4	3.45	**Chloride**	BMB*	11.254	109.940	752.0160
6	5.98	**Bromide**	BMB	0.002	0.012	1.1151
7	6.75	**Sulfate**	BM *	0.367	2.055	37.2254
8	7.19	**Nitrate**	MB*	0.024	0.118	1.2905
TOTAL:				11.65	112.14	792.23



Peak Integration Report

Sample Name:	**L2473912-04; 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 / 20:39**	*Run Time:*	**10.00**

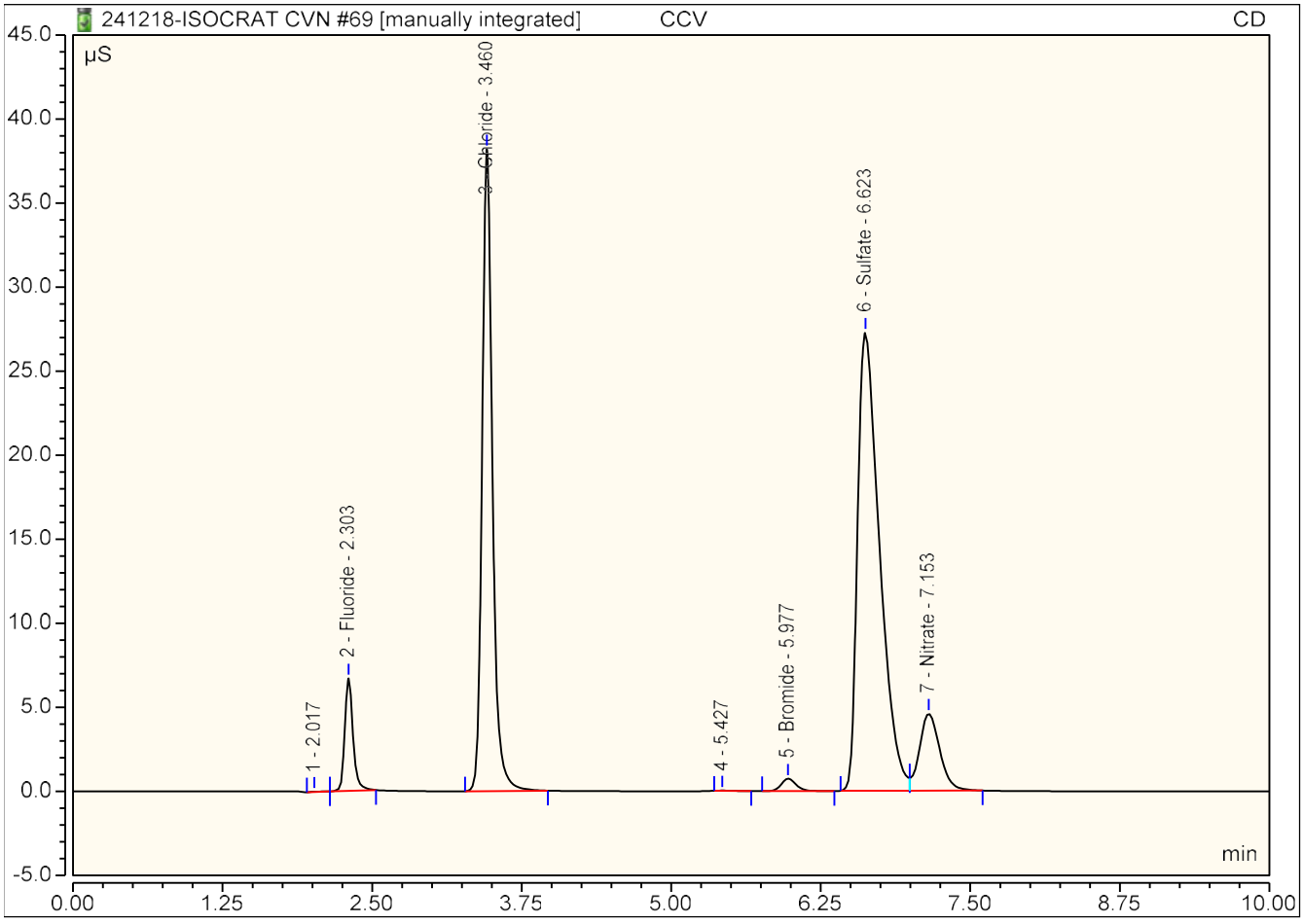
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.001	0.014	0.5863
4	3.45	**Chloride**	BMB*	11.256	110.002	752.1229
6	5.98	**Bromide**	BMB	0.002	0.012	1.1048
7	6.75	**Sulfate**	BM *	0.368	2.059	37.3203
8	7.19	**Nitrate**	MB*	0.024	0.119	1.3074
TOTAL:				11.65	112.21	792.44



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 / 20:51**	*Run Time:*	**10.00**

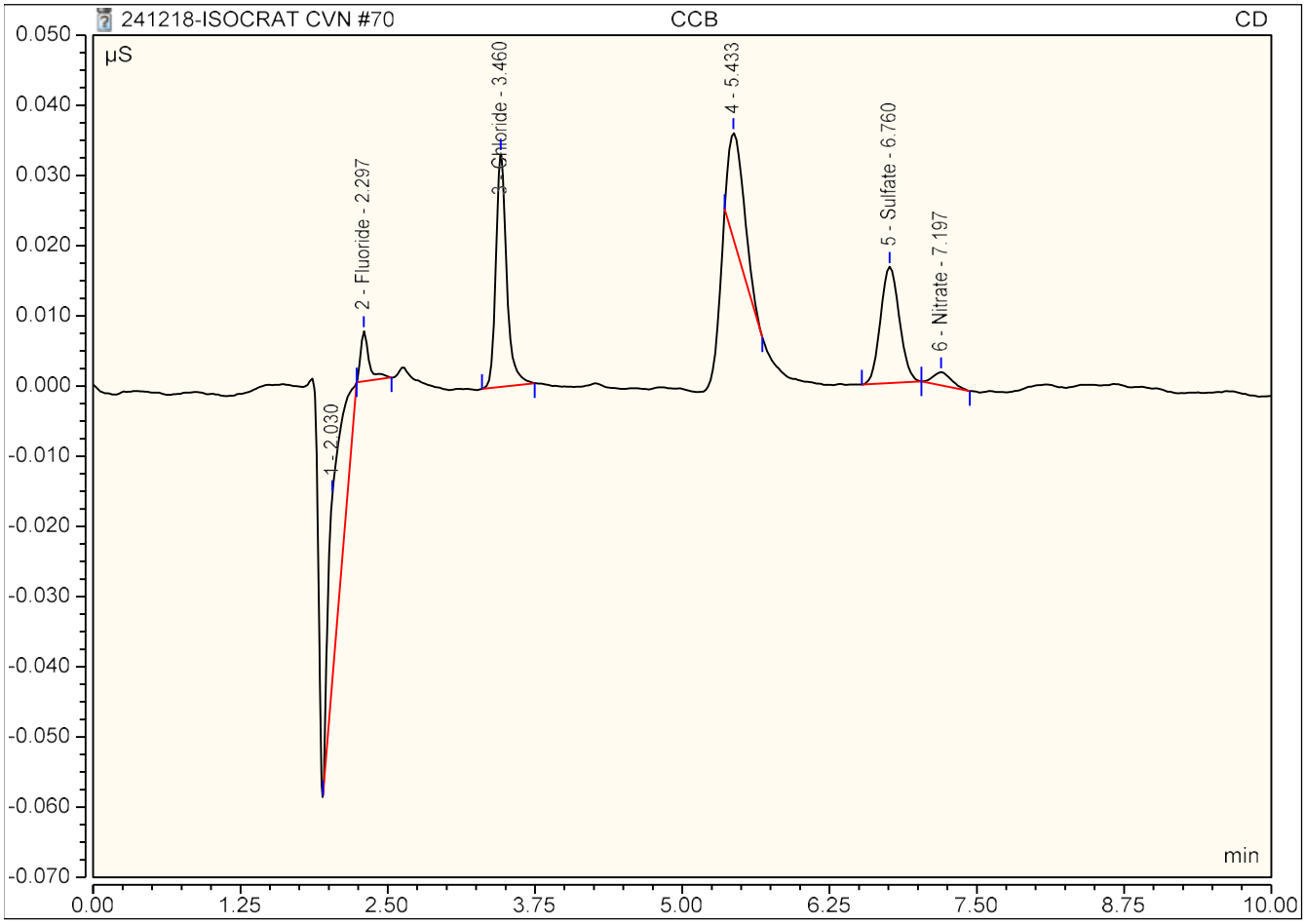
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.530	6.697	1.0272
3	3.46	**Chloride**	BMB*	3.838	38.178	10.3356
5	5.98	**Bromide**	BMB	0.109	0.743	0.9634
6	6.62	**Sulfate**	BM *	5.795	27.256	20.5750
7	7.15	**Nitrate**	MB*	0.898	4.577	1.0208
TOTAL:				11.17	77.45	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:	**18-Dec-2024 / 21:03**	*Run Time:*	**10.00**

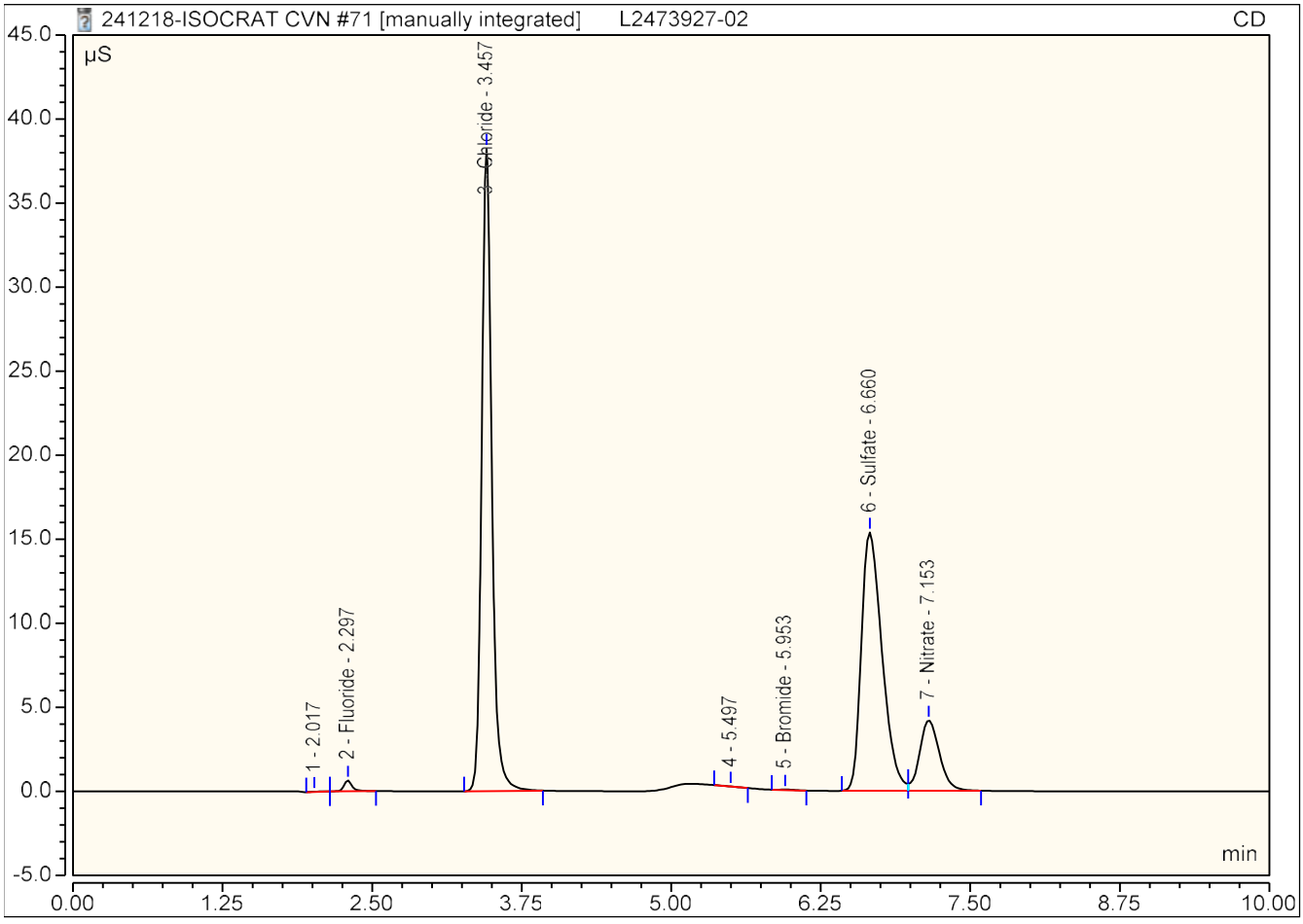
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.001	0.007	0.0227
3	3.46	**Chloride**	BMB	0.003	0.033	0.1269
5	6.76	**Sulfate**	BMB	0.003	0.017	0.2113
6	7.20	**Nitrate**	BMB	0.000	0.002	0.0256
TOTAL:				0.01	0.06	0.39



Peak Integration Report

Sample Name:	**L2473927-02**	*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 / 21:15**	*Run Time:*	**10.00**

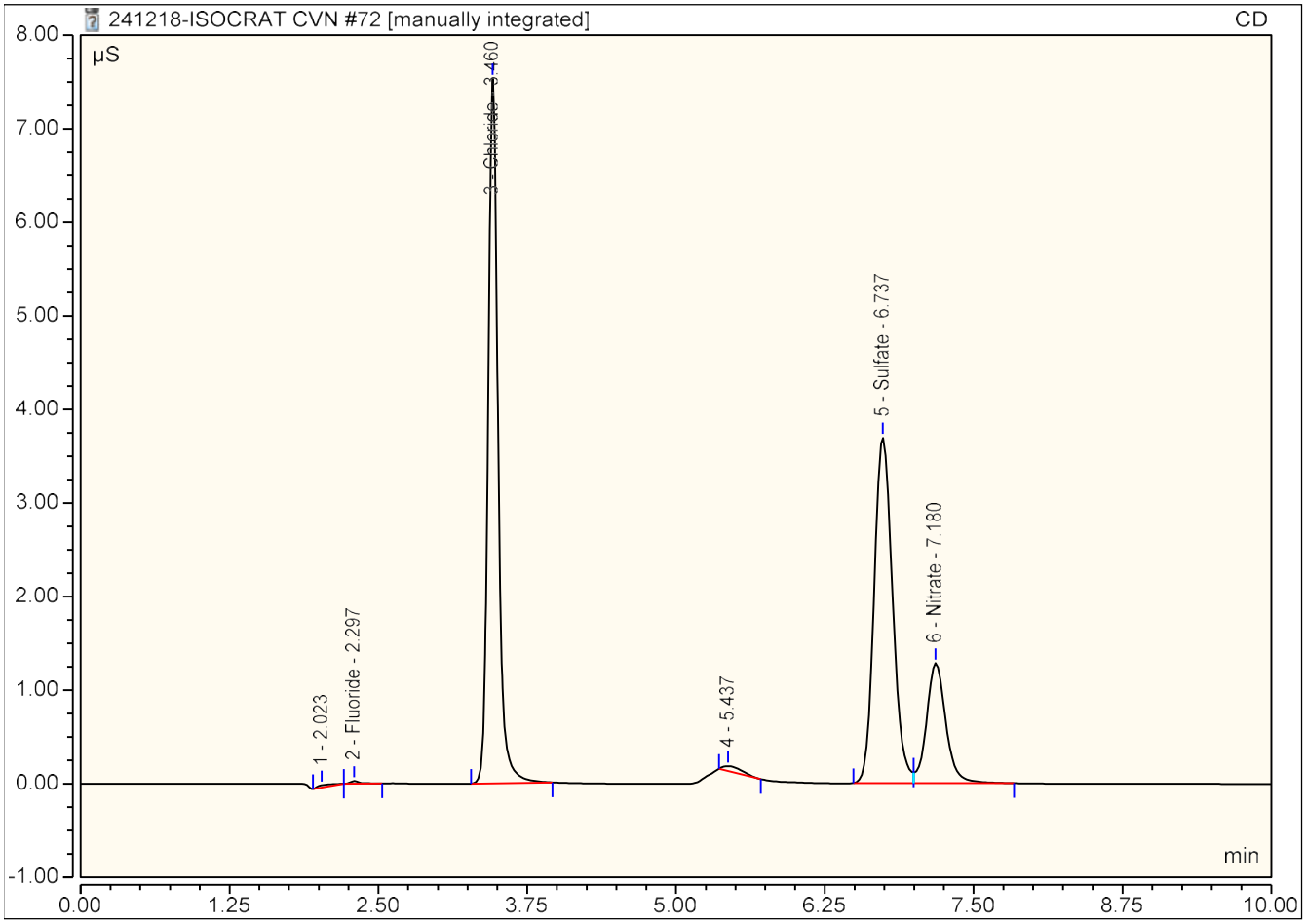
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.051	0.649	0.1187
3	3.46	**Chloride**	BMB*	3.749	38.221	10.0976
5	5.95	**Bromide**	BMB	0.004	0.028	0.0622
6	6.66	**Sulfate**	BM *	3.081	15.369	11.0318
7	7.15	**Nitrate**	MB*	0.799	4.181	0.9116
TOTAL:				7.68	58.45	22.22



Peak Integration Report

Sample Name:	**XL2473734-01; 10X CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**18-Dec-2024 / 21:27**	*Run Time:*	**10.00**

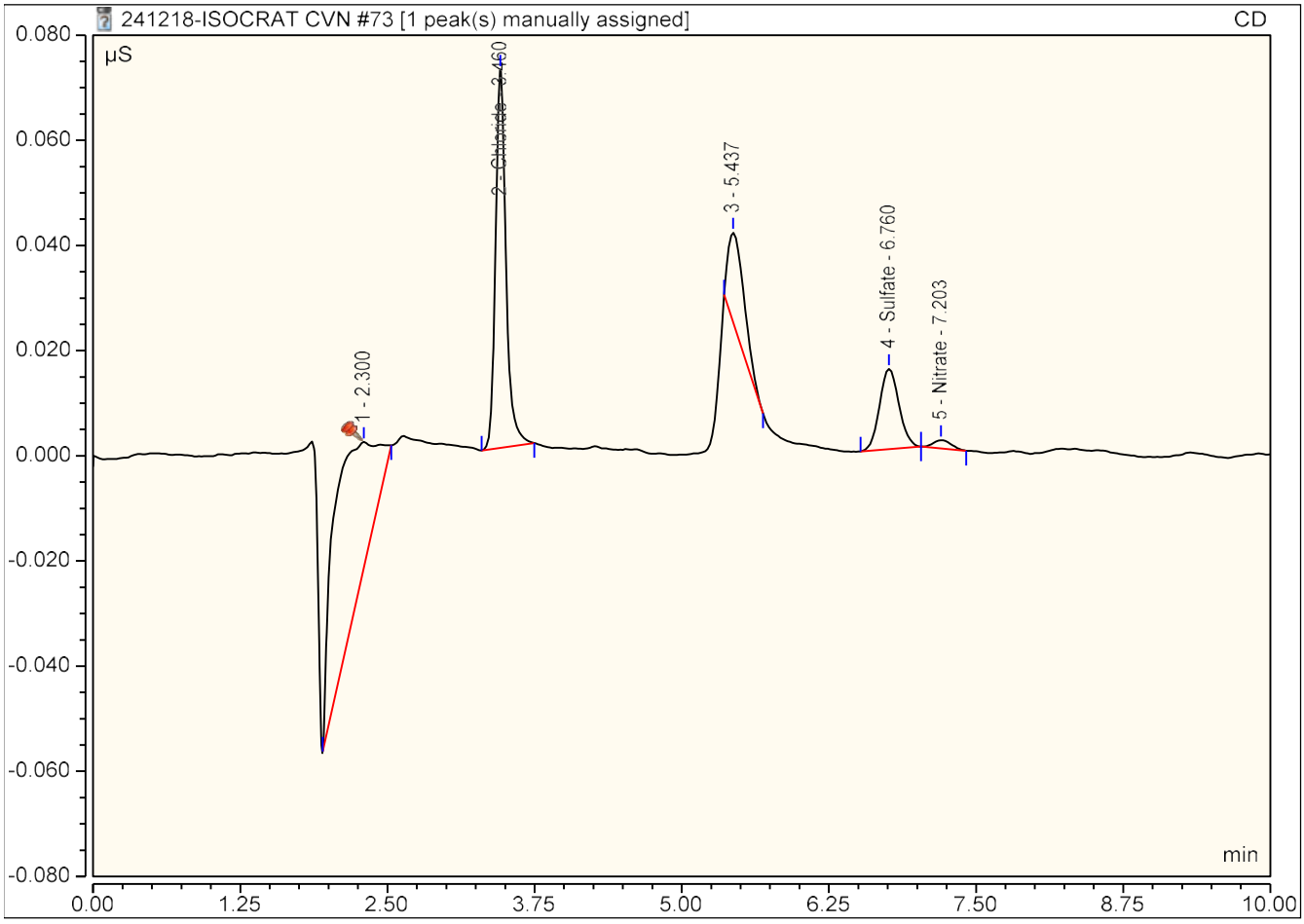
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.003	0.029	0.2640
3	3.46	**Chloride**	BMB*	0.731	7.533	20.6395
5	6.74	**Sulfate**	BM *	0.663	3.694	25.2974
6	7.18	**Nitrate**	MB*	0.241	1.282	2.9290
TOTAL:				1.64	12.54	49.13



Peak Integration Report

Sample Name:	**BLK-3**	*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 / 21:39**	*Run Time:*	**10.00**

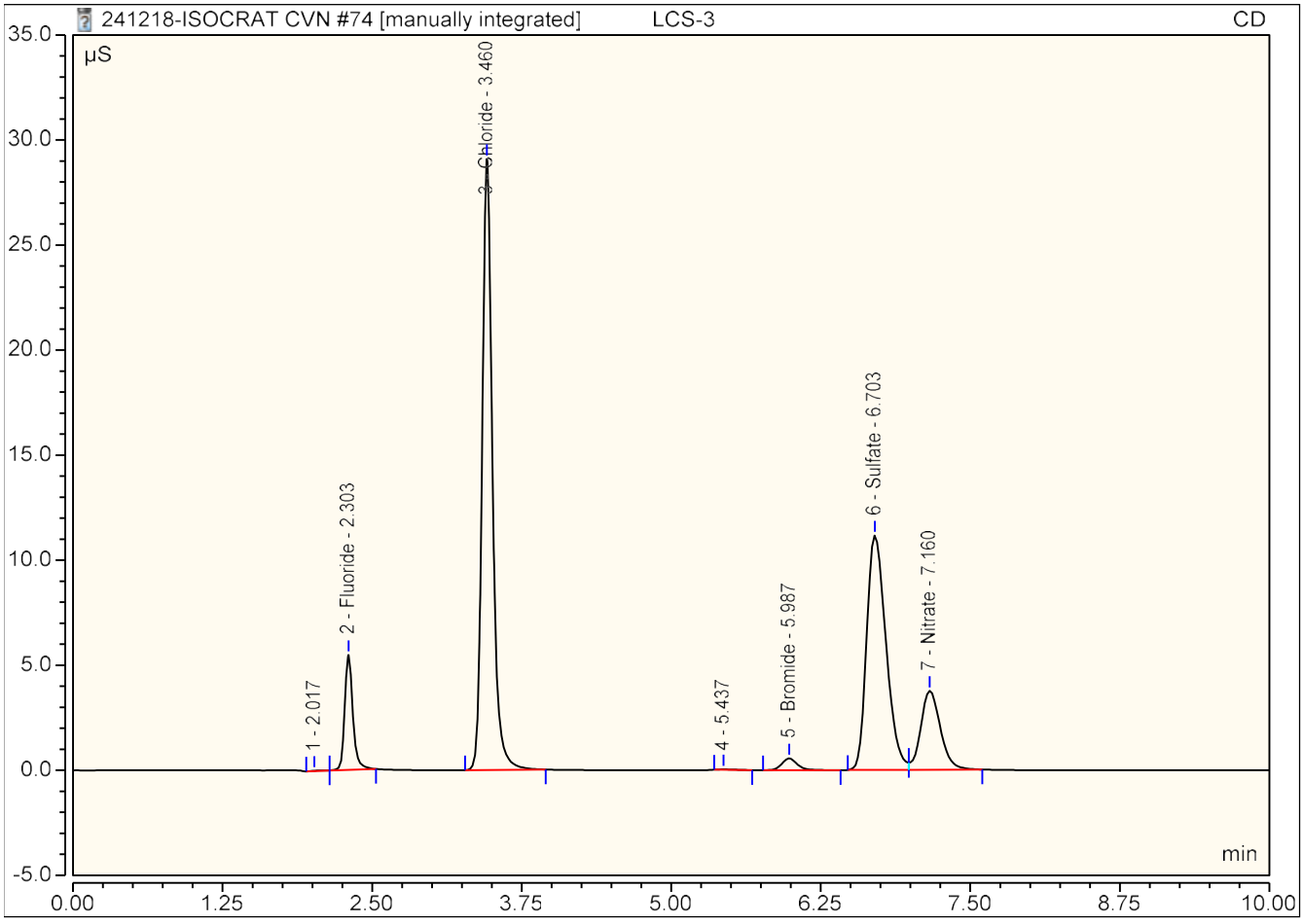
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.46	**Chloride**	BMB	0.007	0.072	0.1373
4	6.76	**Sulfate**	BMB	0.003	0.015	0.2107
5	7.20	**Nitrate**	BMB	0.000	0.002	0.0255
TOTAL:				0.01	0.09	0.37



Peak Integration Report

Sample Name:	**LCS-3**	*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 / 21:51**	*Run Time:*	**10.00**

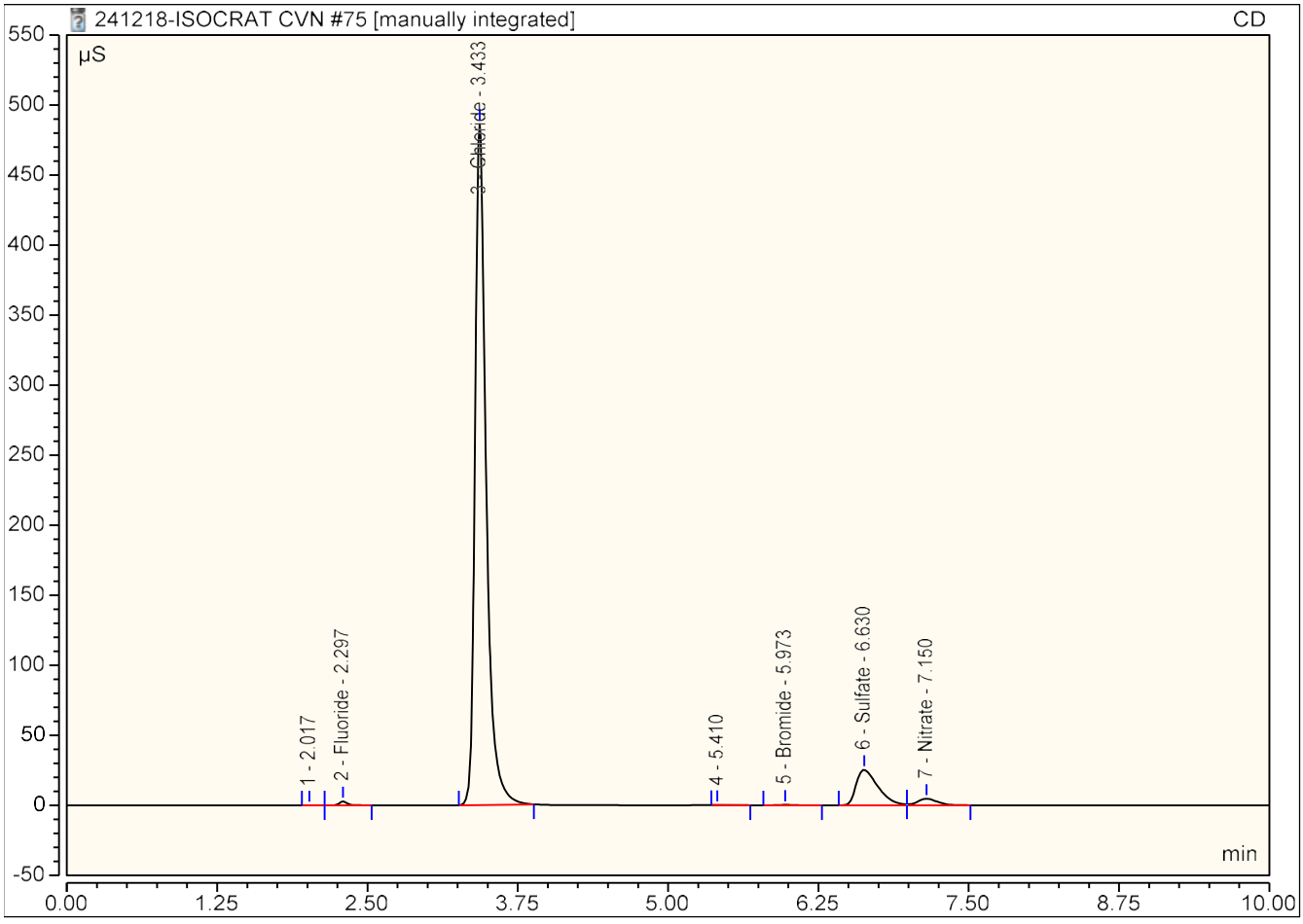
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.427	5.462	0.8318
3	3.46	**Chloride**	BMB*	2.904	29.077	7.8502
5	5.99	**Bromide**	BMB	0.085	0.560	0.7529
6	6.70	**Sulfate**	BM *	2.088	11.149	7.5417
7	7.16	**Nitrate**	MB*	0.709	3.749	0.8117
TOTAL:				6.21	50.00	17.79



Peak Integration Report

Sample Name:	**L2474529-01 MS CL SO4 NO3**	*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 / 22:03**	*Run Time:*	**10.00**

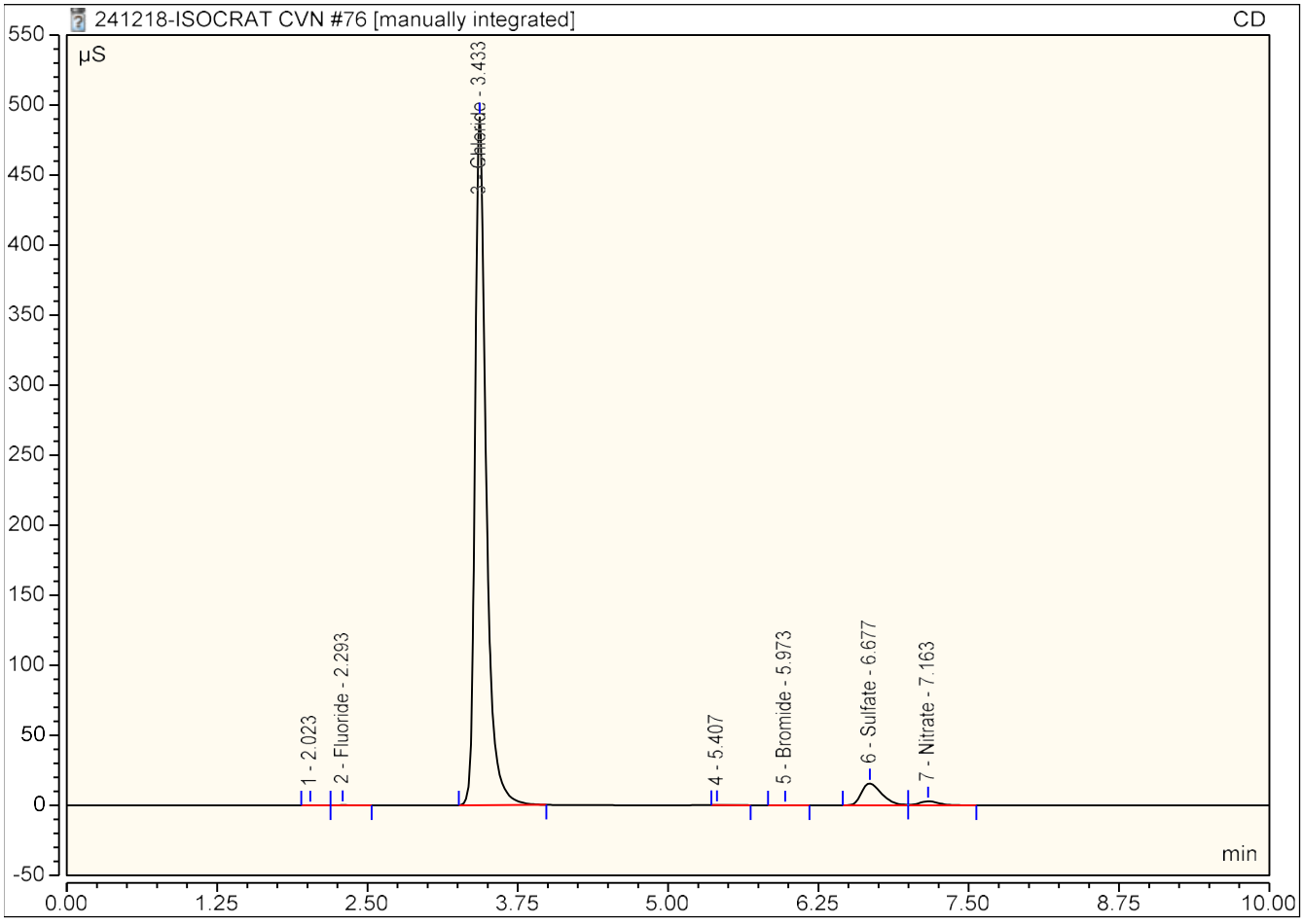
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.224	2.862	0.4470
3	3.43	**Chloride**	BMB*	52.136	486.247	138.9226
5	5.97	**Bromide**	BMB	0.045	0.309	0.4155
6	6.63	**Sulfate**	BM *	5.314	25.337	18.8835
7	7.15	**Nitrate**	MB*	0.898	4.629	1.0213
TOTAL:				58.62	519.38	159.69



Peak Integration Report

Sample Name:	**L2474529-01 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 / 22:16**	*Run Time:*	**10.00**

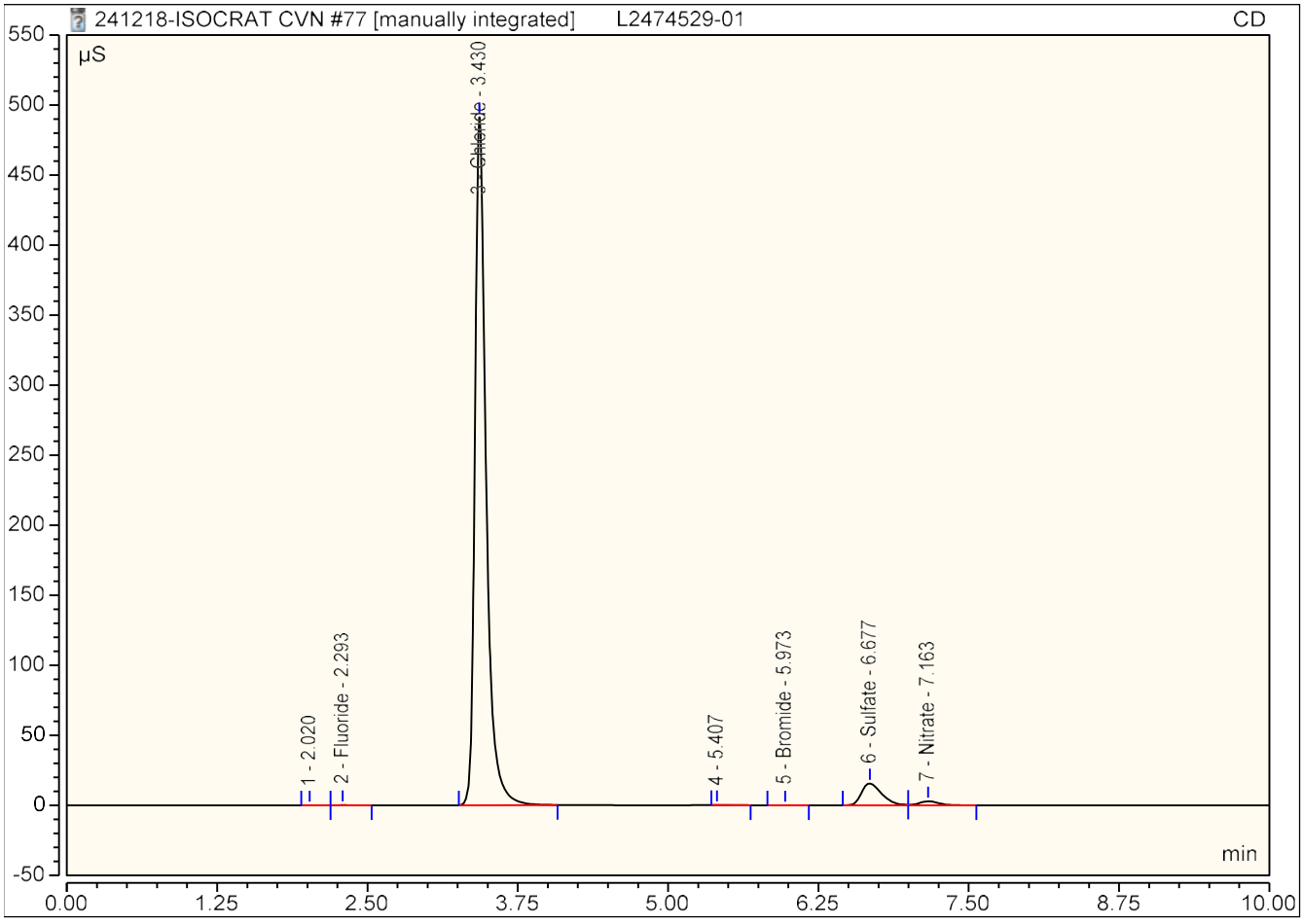
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.016	0.187	0.0516
3	3.43	**Chloride**	BMB*	52.905	491.197	140.9714
5	5.97	**Bromide**	BMB	0.006	0.044	0.0818
6	6.68	**Sulfate**	BM *	3.051	15.627	10.9254
7	7.16	**Nitrate**	MB*	0.541	2.844	0.6252
TOTAL:				56.52	509.90	152.66



Peak Integration Report

Sample Name:	**L2474529-01**	*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 / 22:28**	*Run Time:*	**10.00**

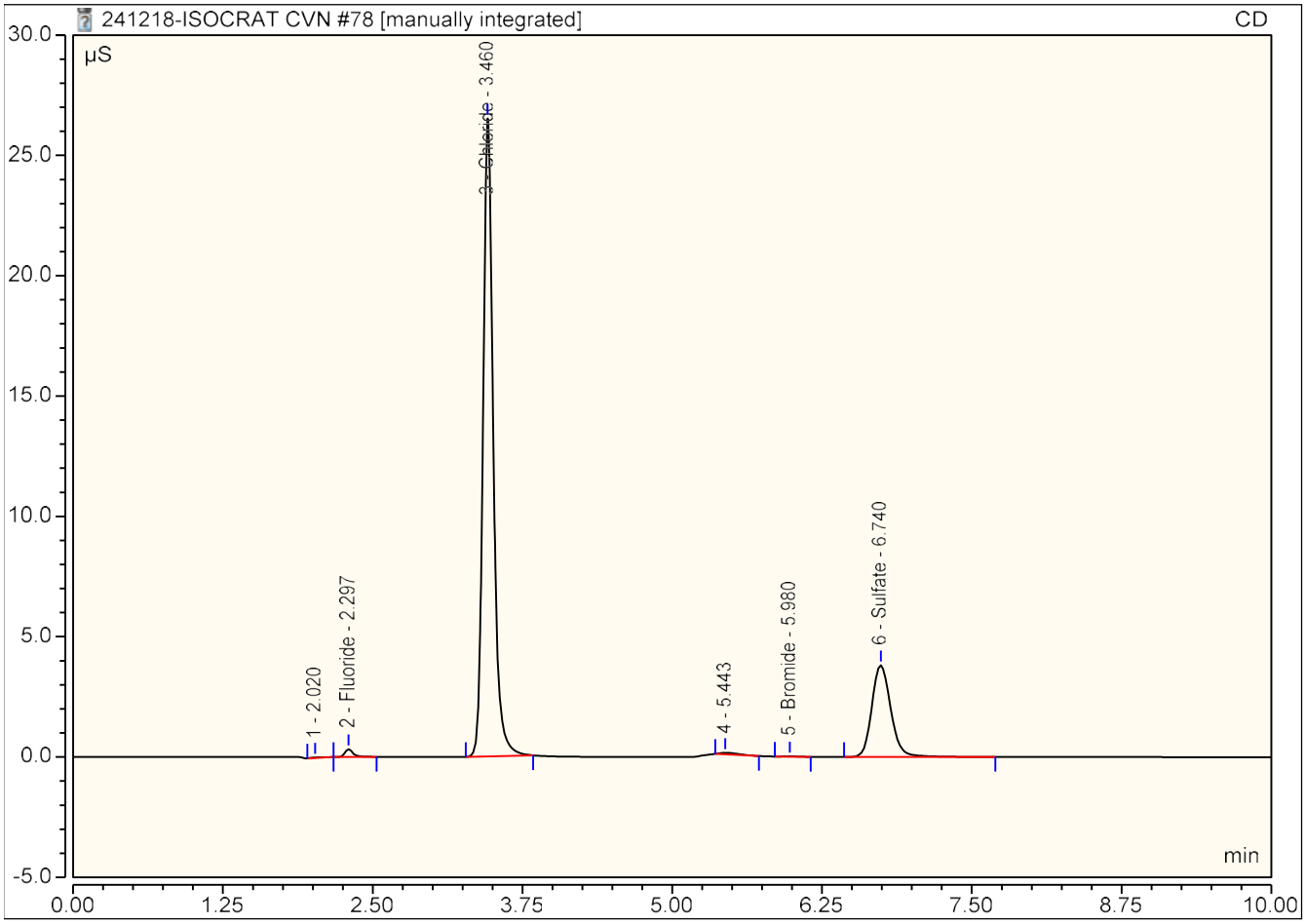
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.016	0.184	0.0512
3	3.43	**Chloride**	BMB*	52.961	491.072	141.1199
5	5.97	**Bromide**	BMB	0.006	0.043	0.0807
6	6.68	**Sulfate**	BM *	3.050	15.612	10.9243
7	7.16	**Nitrate**	MB*	0.542	2.847	0.6261
TOTAL:				56.58	509.76	152.80



Peak Integration Report

Sample Name:	**L2473893-10; 10X CL**	*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 / 22:40**	*Run Time:*	**10.00**

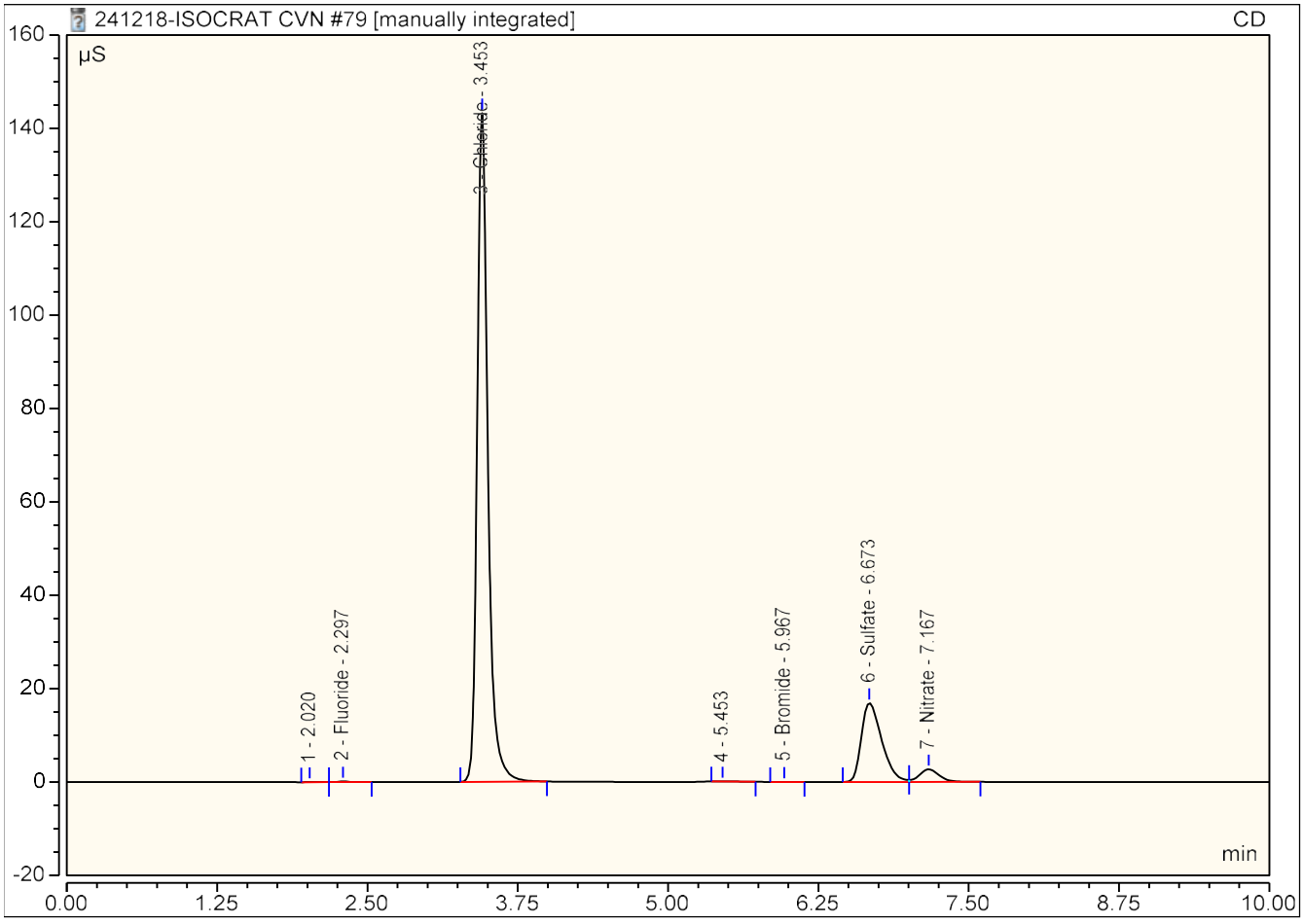
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.026	0.329	0.7062
3	3.46	**Chloride**	BMB*	2.623	26.516	71.0039
5	5.98	**Bromide**	BMB	0.002	0.012	0.4338
6	6.74	**Sulfate**	BMB	0.699	3.815	26.5803
TOTAL:				3.35	30.67	98.72



Peak Integration Report

Sample Name:	**L2473747-01 CL SO4**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**18-Dec-2024 / 22:52**	*Run Time:*	**10.00**

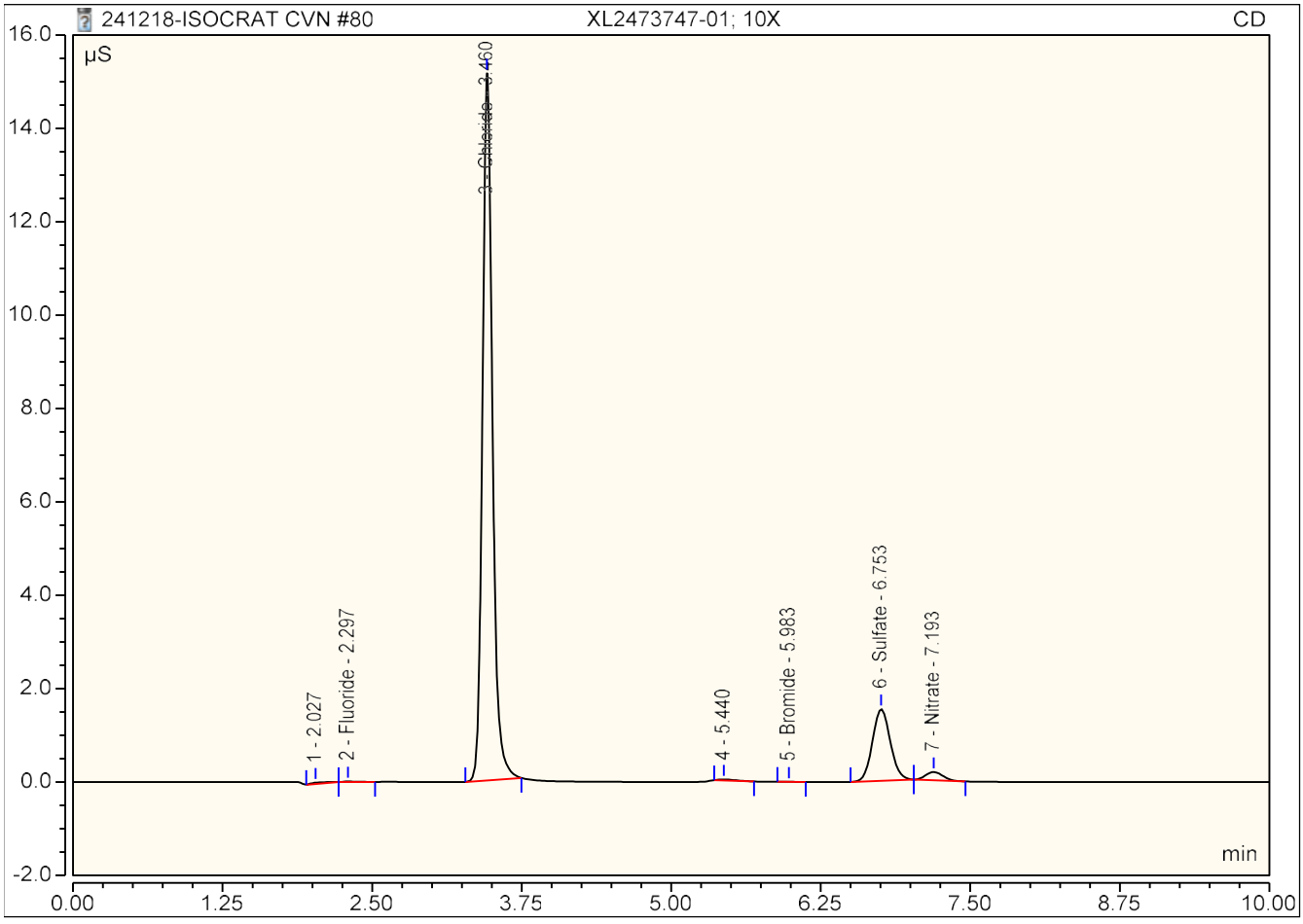
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.011	0.139	0.0434
3	3.45	**Chloride**	BMB*	14.736	143.211	39.3506
5	5.97	**Bromide**	BMB	0.001	0.007	0.0379
6	6.67	**Sulfate**	BM *	3.316	16.882	11.8567
7	7.17	**Nitrate**	MB*	0.514	2.699	0.5954
TOTAL:				18.58	162.94	51.88



Peak Integration Report

Sample Name:	**XL2473747-01; 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 / 23:04**	*Run Time:*	**10.00**

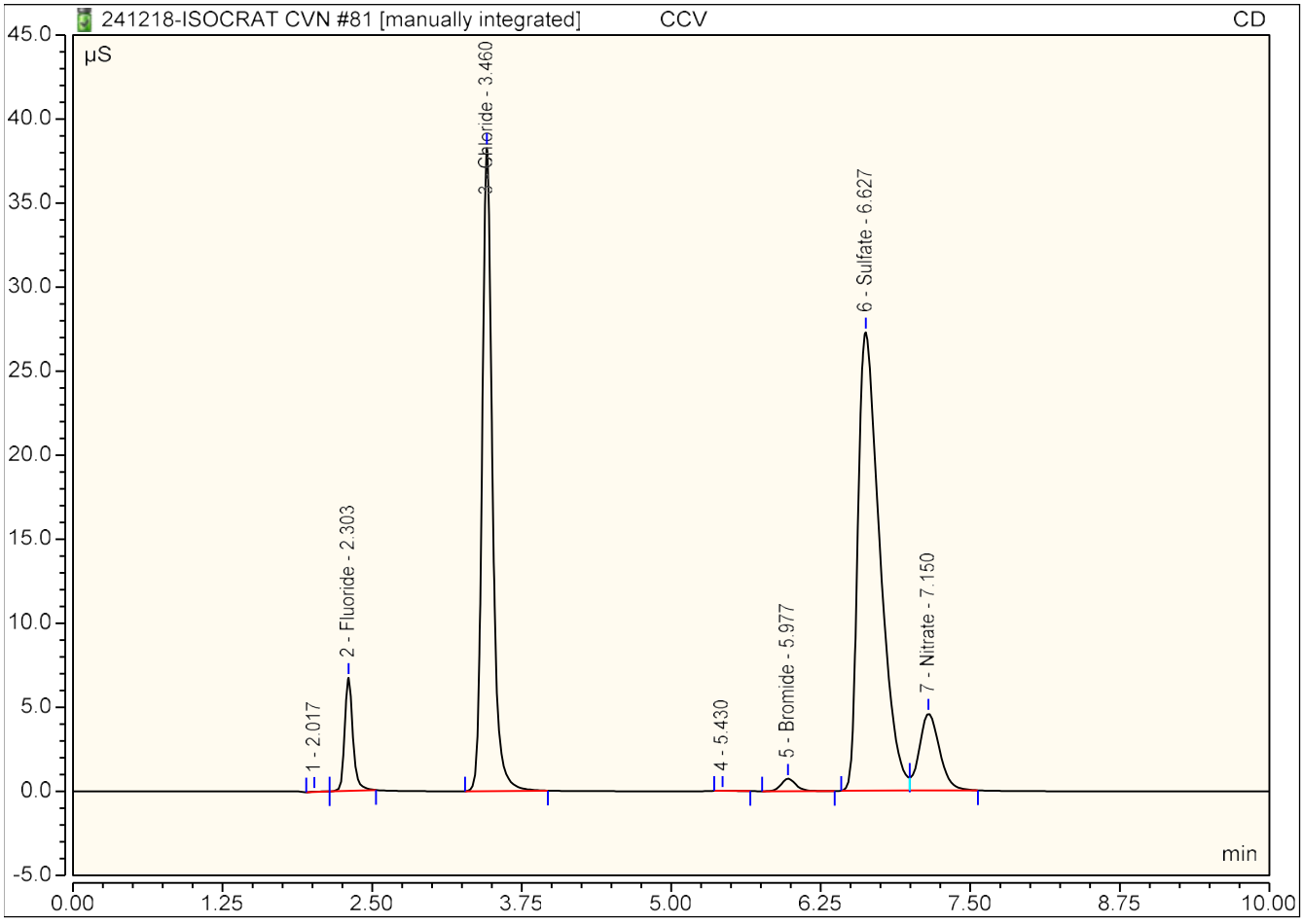
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.001	0.014	0.2380
3	3.46	**Chloride**	BMB	1.473	15.141	40.3855
5	5.98	**Bromide**	BMB	0.000	0.001	0.3015
6	6.75	**Sulfate**	BMB	0.265	1.536	11.3114
7	7.19	**Nitrate**	BMB	0.030	0.177	0.5832
TOTAL:				1.77	16.87	52.82



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 / 23:16**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.529	6.725	1.0264
3	3.46	**Chloride**	BMB*	3.833	38.267	10.3220
5	5.98	**Bromide**	BMB	0.109	0.744	0.9633
6	6.63	**Sulfate**	BM *	5.788	27.271	20.5488
7	7.15	**Nitrate**	MB*	0.895	4.580	1.0172
TOTAL:				11.15	77.59	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:	**18-Dec-2024 / 23:28**	*Run Time:*	**10.00**

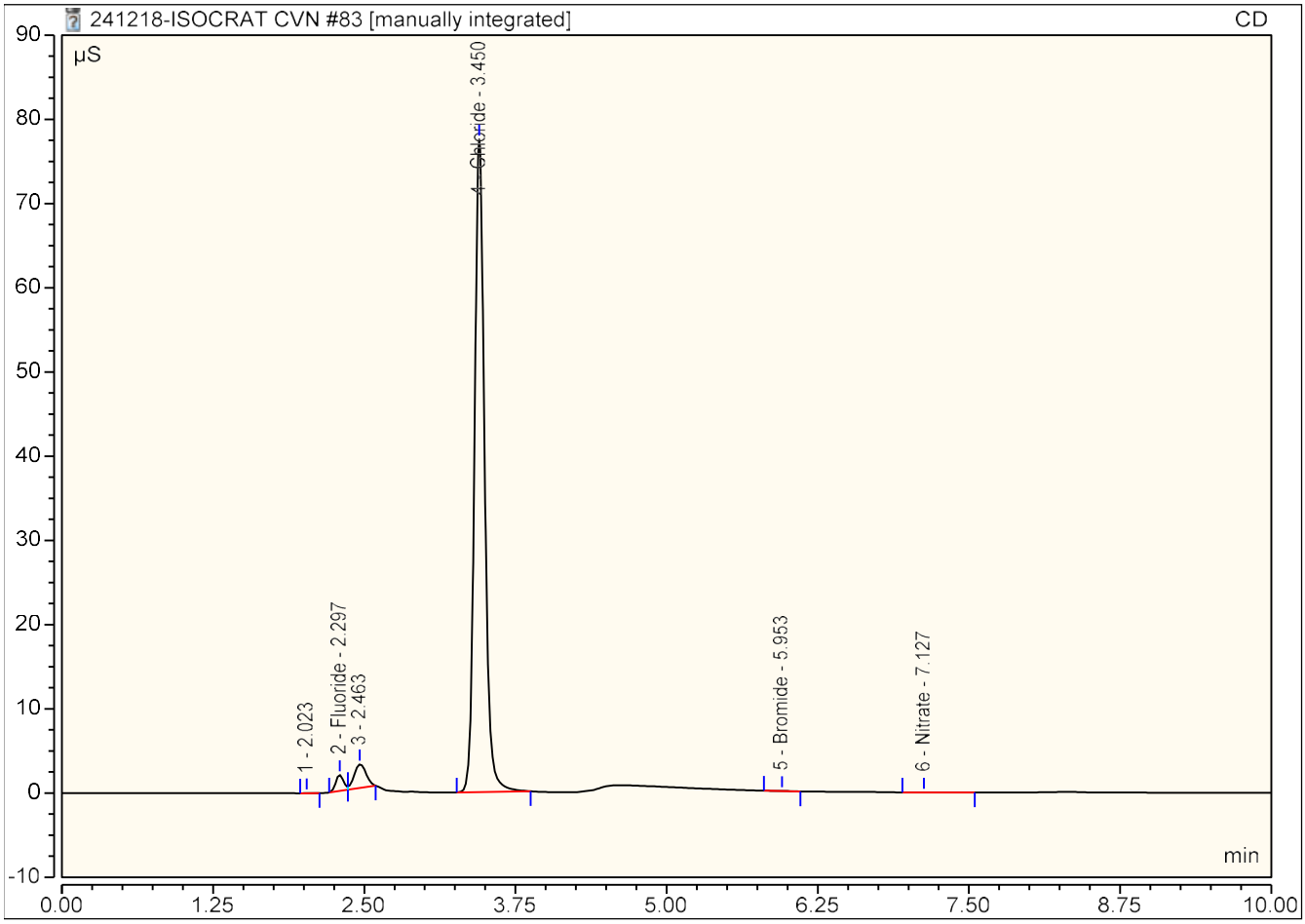
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.001	0.010	0.0231
3	3.46	**Chloride**	BMB	0.004	0.035	0.1274
5	6.76	**Sulfate**	BMB	0.004	0.020	0.2137
6	7.21	**Nitrate**	BMB	0.000	0.002	0.0255
TOTAL:				0.01	0.07	0.39



Peak Integration Report

Sample Name:	**L2474067-02 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 / 23:40**	*Run Time:*	**10.00**

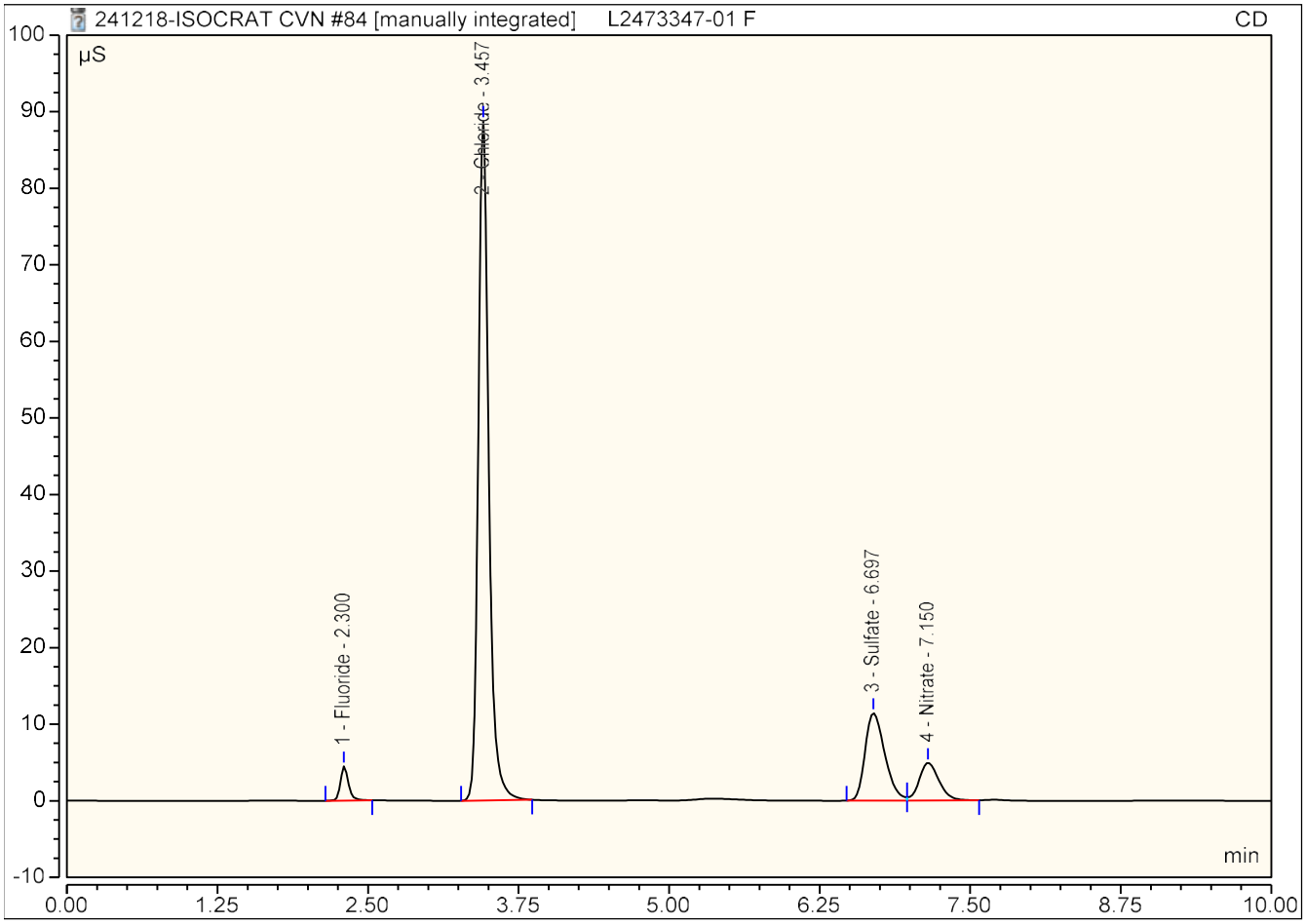
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BM *	0.143	1.905	0.2923
4	3.45	**Chloride**	BMB*	7.483	77.490	20.0404
5	5.95	**Bromide**	BMB	0.003	0.024	0.0574
6	7.13	**Nitrate**	BMB	0.003	0.009	0.0280
TOTAL:				7.63	79.43	20.42



Peak Integration Report

Sample Name:	**L2473347-01 F**	*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 / 23:52**	*Run Time:*	**10.00**

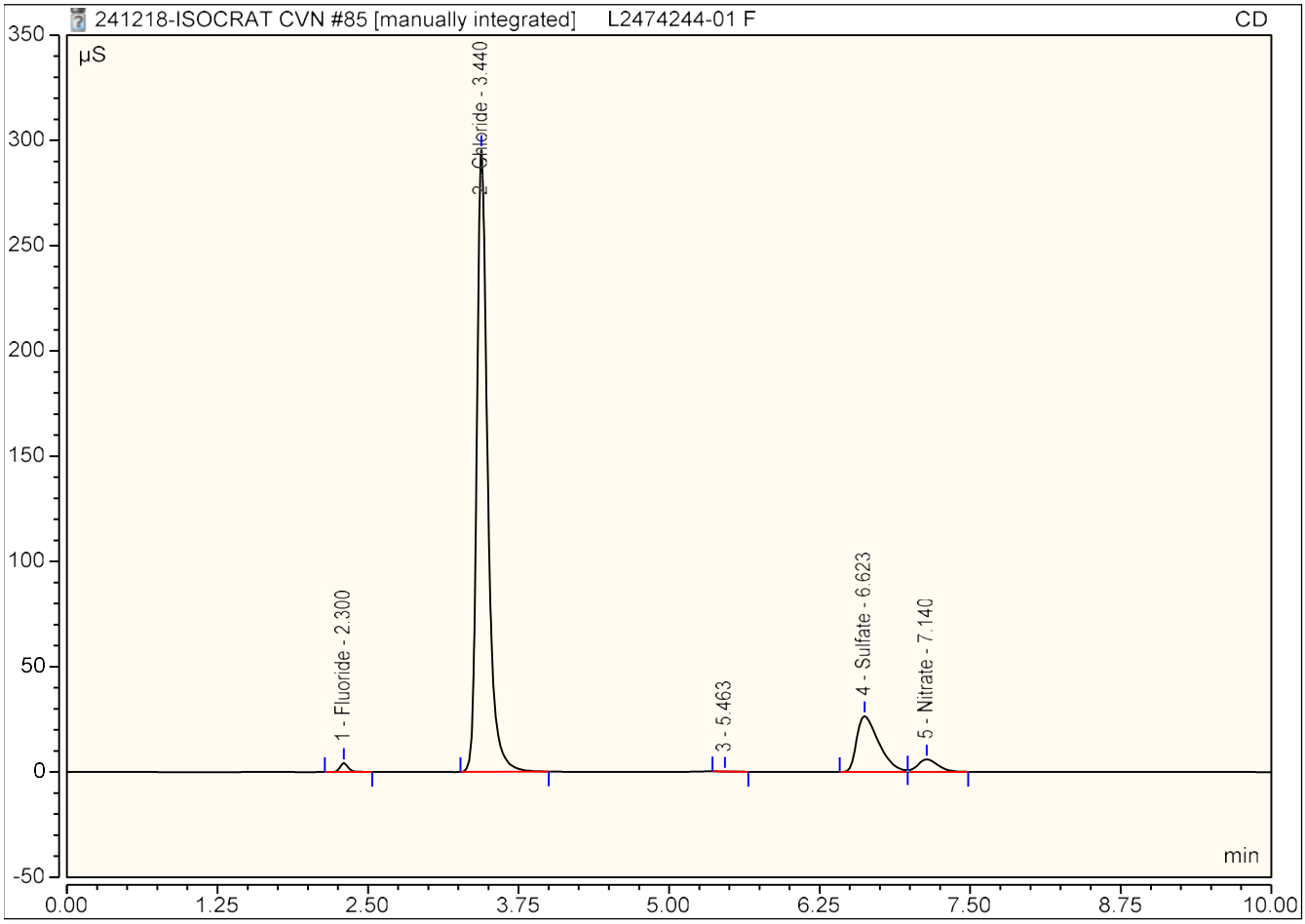
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.30	**Fluoride**	BMB	0.350	4.484	0.6857
2	3.46	**Chloride**	BMB*	8.971	88.763	24.0017
3	6.70	**Sulfate**	BM *	2.170	11.432	7.8279
4	7.15	**Nitrate**	MB*	0.928	4.890	1.0544
TOTAL:				12.42	109.57	33.57



Peak Integration Report

Sample Name:	**L2474244-01 F**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Dec-2024 / 00:04**	*Run Time:*	**10.00**

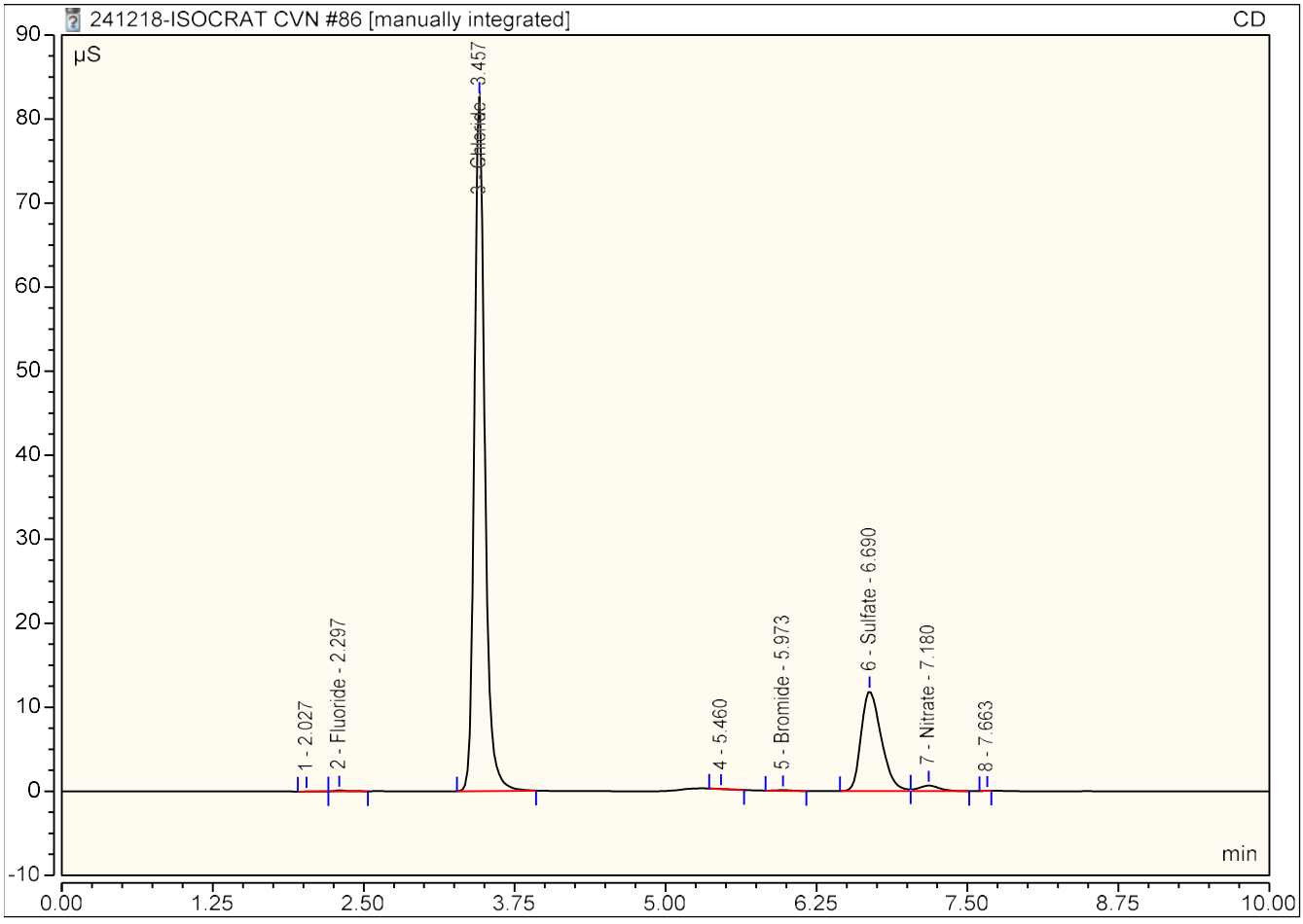
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.30	**Fluoride**	BMB	0.339	4.292	0.6650
2	3.44	**Chloride**	BMB*	30.945	295.368	82.5033
4	6.62	**Sulfate**	BM *	5.620	26.540	19.9588
5	7.14	**Nitrate**	MB*	1.150	5.932	1.2999
TOTAL:				38.05	332.13	104.43



Peak Integration Report

Sample Name:	**L2474146-01 CL SO4**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Dec-2024 / 00:16**	*Run Time:*	**10.00**

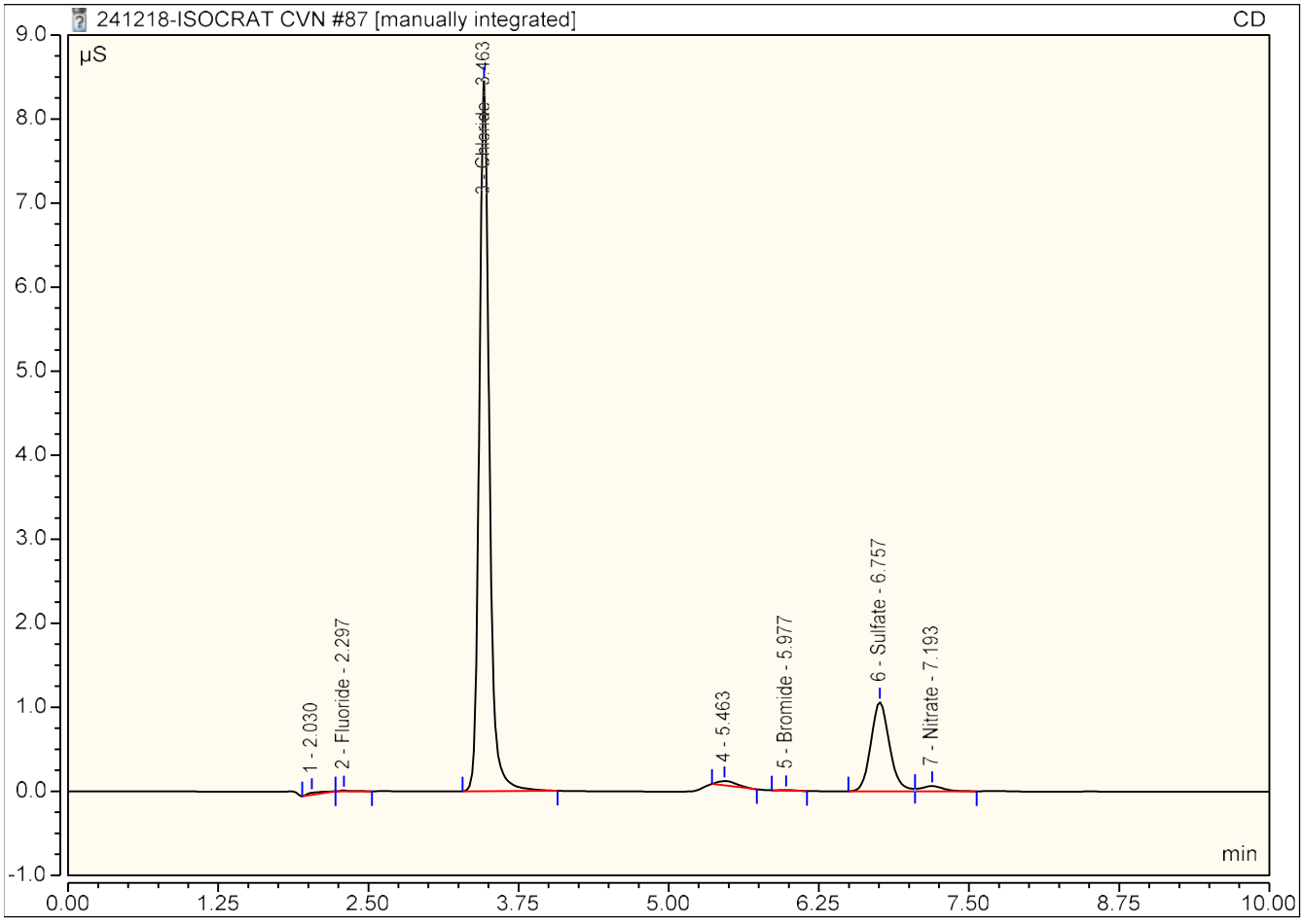
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.010	0.118	0.0409
3	3.46	**Chloride**	BMB*	8.285	82.609	22.1740
5	5.97	**Bromide**	BMB	0.010	0.069	0.1119
6	6.69	**Sulfate**	BM *	2.299	11.876	8.2824
7	7.18	**Nitrate**	MB*	0.128	0.665	0.1676
TOTAL:				10.73	95.34	30.78



Peak Integration Report

Sample Name:	**XL2474146-01; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Dec-2024 / 00:28**	*Run Time:*	**10.00**

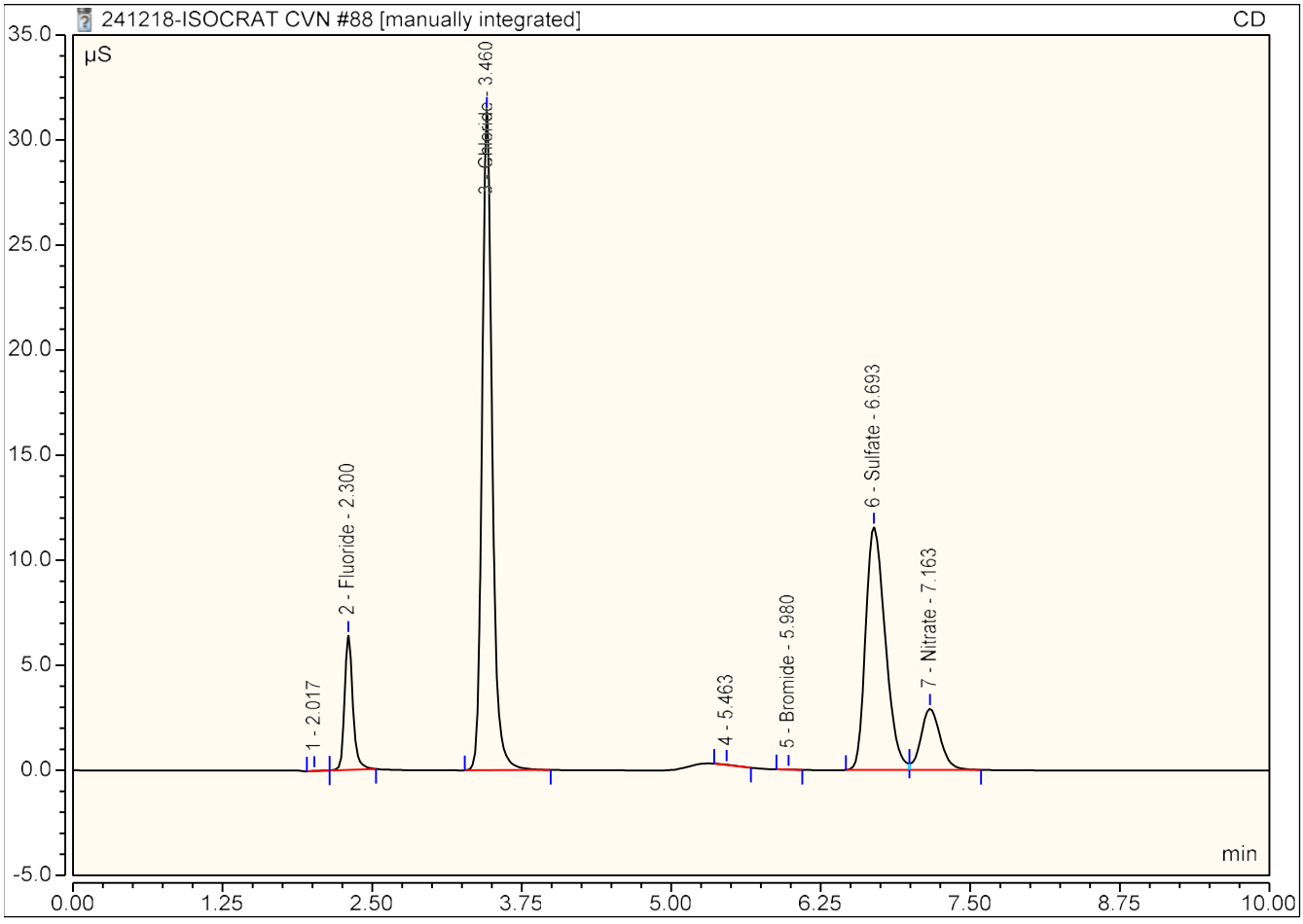
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.001	0.012	0.2368
3	3.46	**Chloride**	BMB*	0.825	8.447	23.1357
5	5.98	**Bromide**	BMB	0.001	0.007	0.3727
6	6.76	**Sulfate**	BM *	0.190	1.059	8.7008
7	7.19	**Nitrate**	MB*	0.013	0.061	0.3953
TOTAL:				1.03	9.59	32.84



Peak Integration Report

Sample Name:	**L2474183-14 CL SO4**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Dec-2024 / 00:41**	*Run Time:*	**10.00**

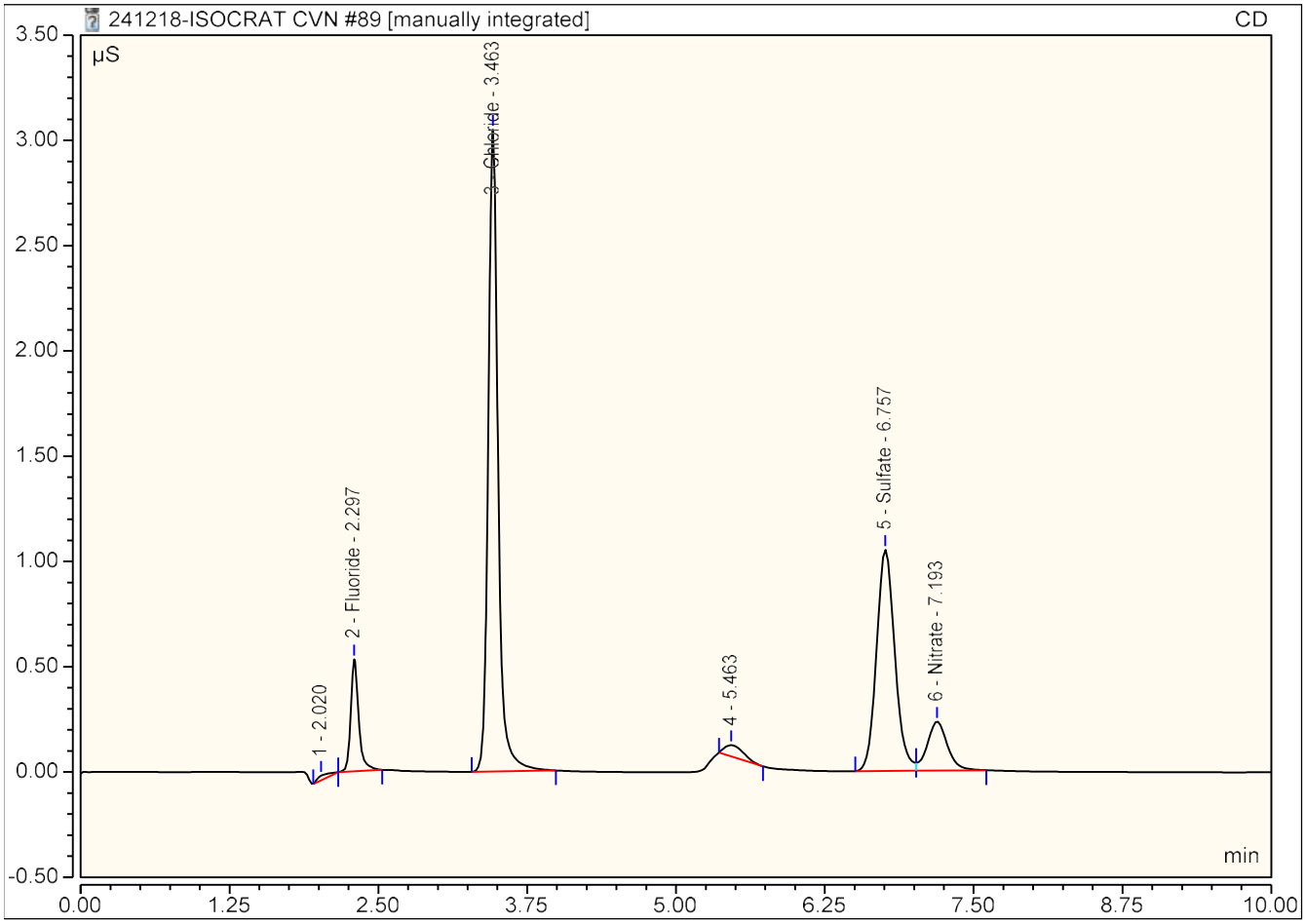
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.507	6.387	0.9845
3	3.46	**Chloride**	BMB*	3.098	31.347	8.3668
5	5.98	**Bromide**	BMB	0.001	0.005	0.0340
6	6.69	**Sulfate**	BM *	2.205	11.542	7.9538
7	7.16	**Nitrate**	MB*	0.548	2.914	0.6325
TOTAL:				6.36	52.20	17.97



Peak Integration Report

Sample Name:	**XL2474183-14; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Dec-2024 / 00:53**	*Run Time:*	**10.00**

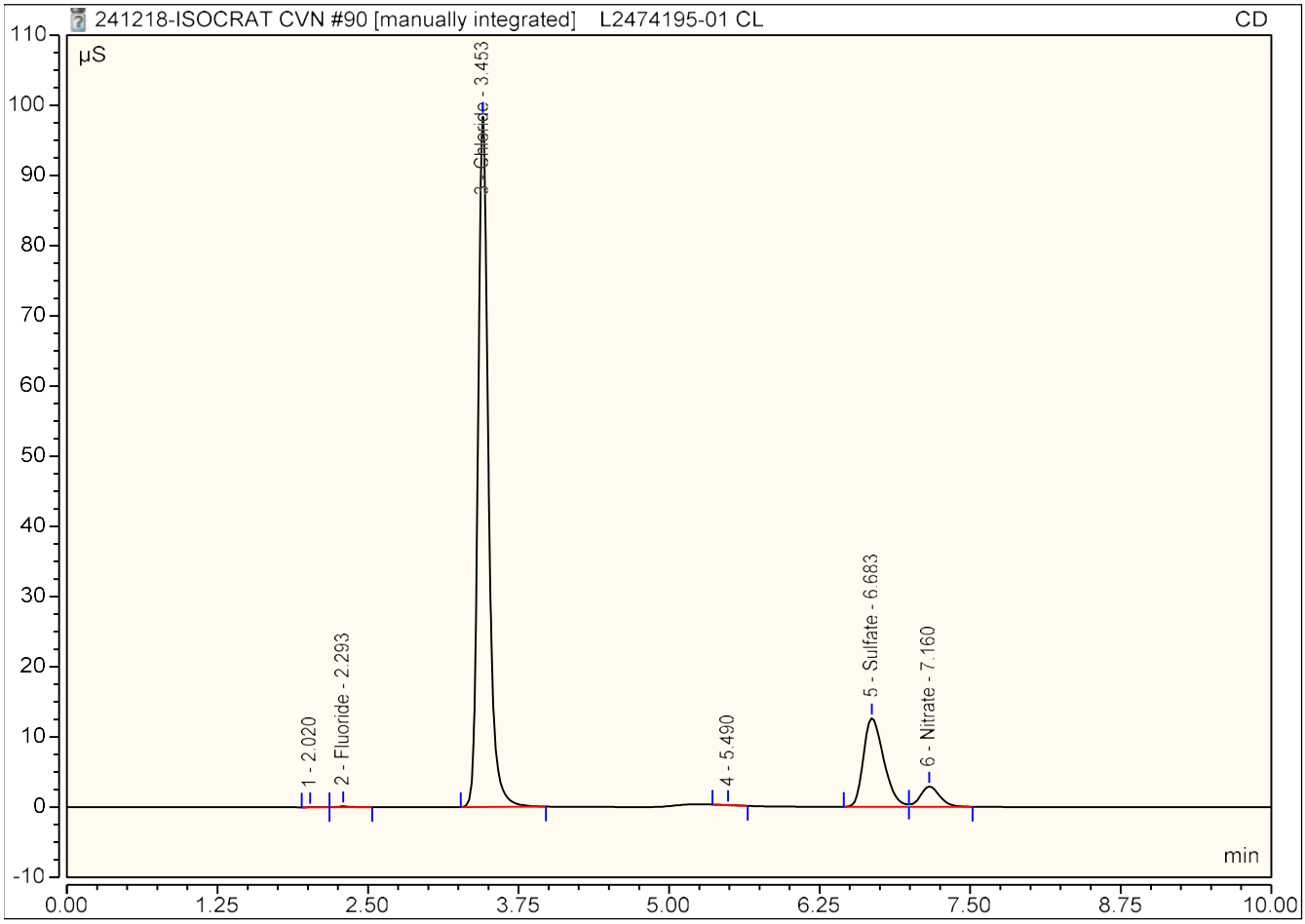
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.041	0.532	0.9927
3	3.46	**Chloride**	BMB*	0.294	3.049	8.9936
5	6.76	**Sulfate**	BM *	0.187	1.050	8.5815
6	7.19	**Nitrate**	MB*	0.046	0.233	0.7594
TOTAL:				0.57	4.86	19.33



Peak Integration Report

Sample Name:	**L2474195-01 CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Dec-2024 / 01:05**	*Run Time:*	**10.00**

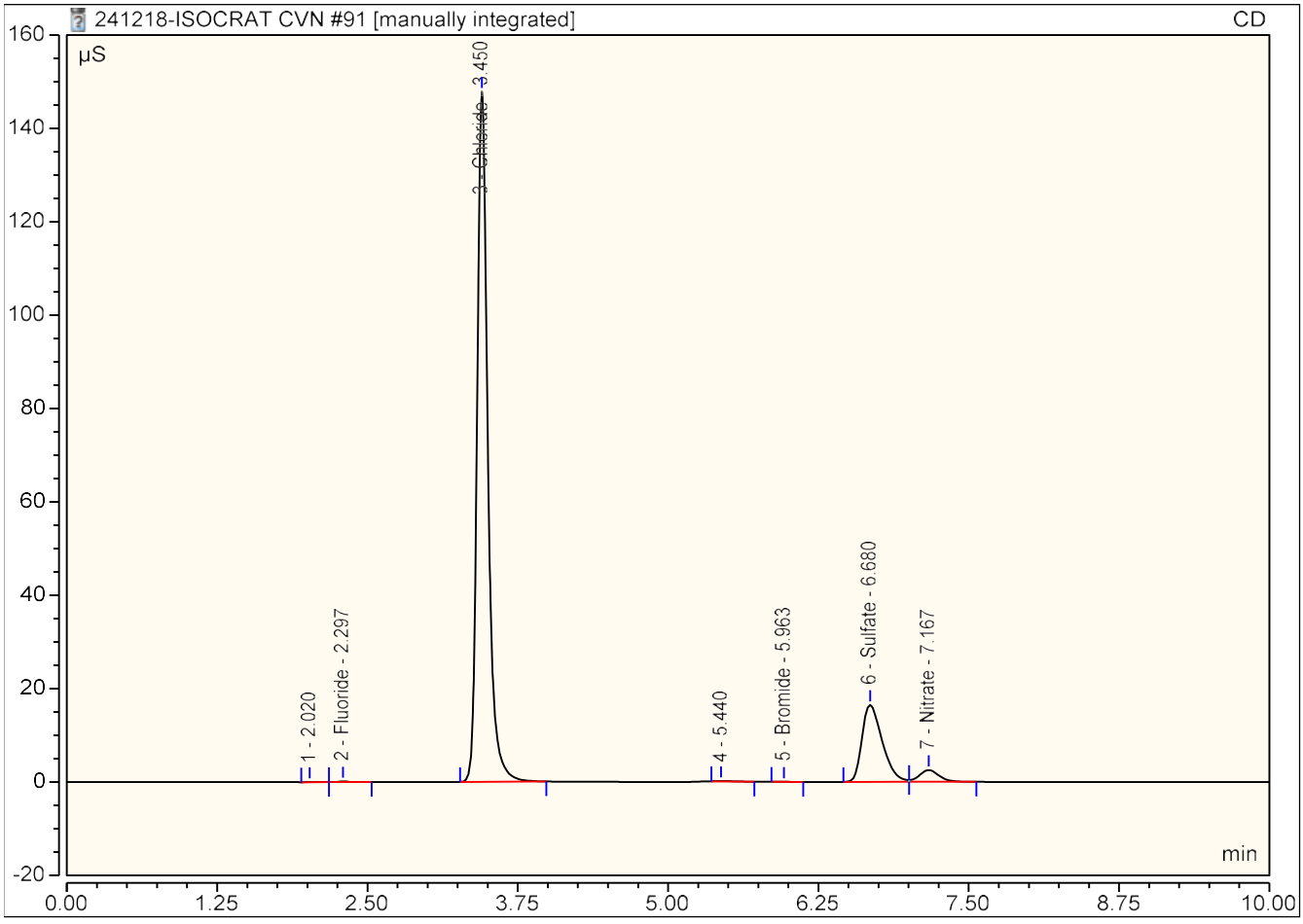
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.012	0.140	0.0438
3	3.45	**Chloride**	BMB*	9.857	98.358	26.3616
5	6.68	**Sulfate**	BM *	2.467	12.625	8.8732
6	7.16	**Nitrate**	MB*	0.540	2.878	0.6237
TOTAL:				12.88	114.00	35.90



Peak Integration Report

Sample Name:	**L2474270-01 CL SO4**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Dec-2024 / 01:17**	*Run Time:*	**10.00**

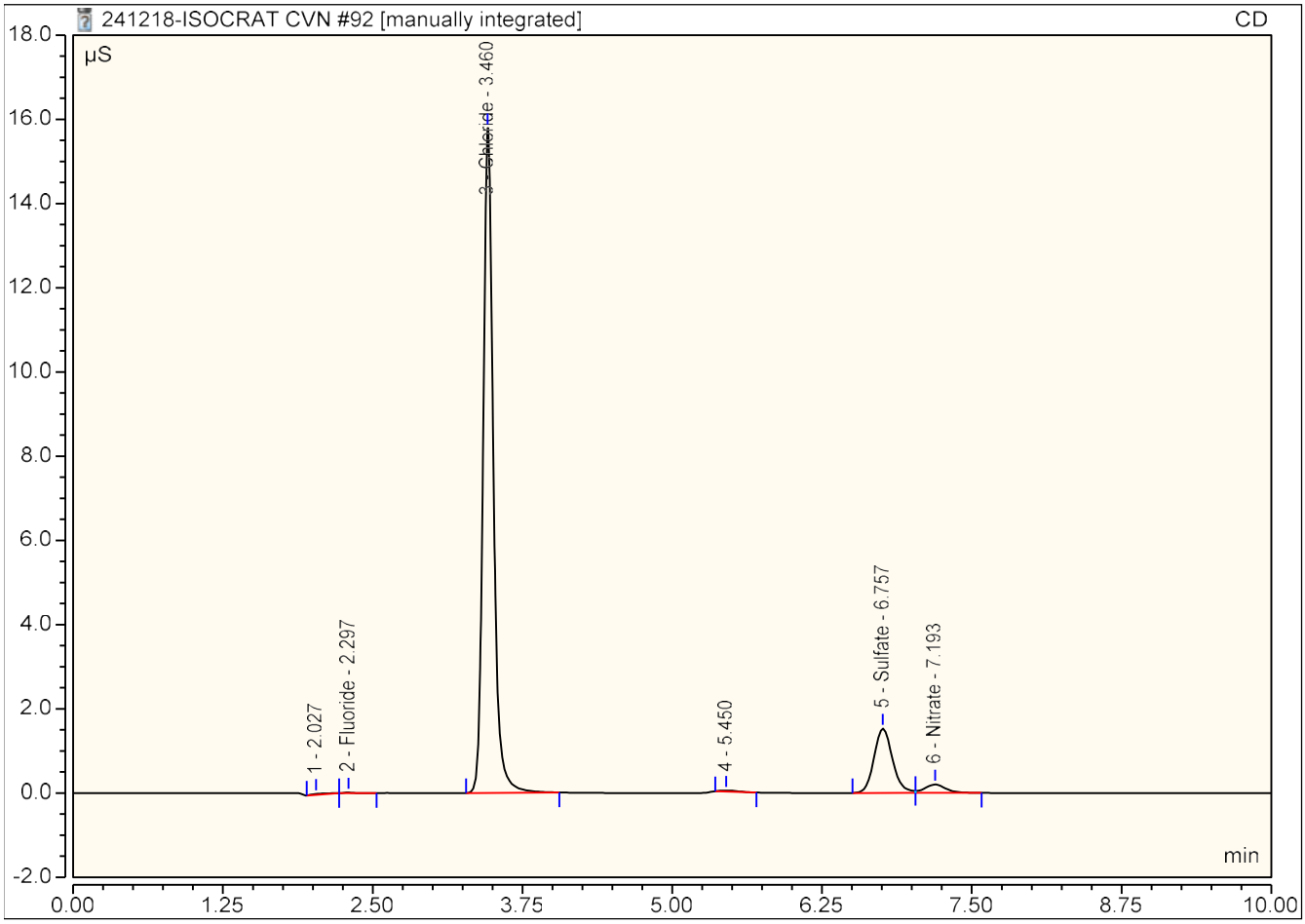
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.012	0.140	0.0435
3	3.45	**Chloride**	BMB*	15.176	147.793	40.5206
5	5.96	**Bromide**	BMB	0.001	0.007	0.0370
6	6.68	**Sulfate**	BM *	3.212	16.477	11.4926
7	7.17	**Nitrate**	MB*	0.480	2.532	0.5574
TOTAL:				18.88	166.95	52.65



Peak Integration Report

Sample Name:	**XL2474270-01; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Dec-2024 / 01:29**	*Run Time:*	**10.00**

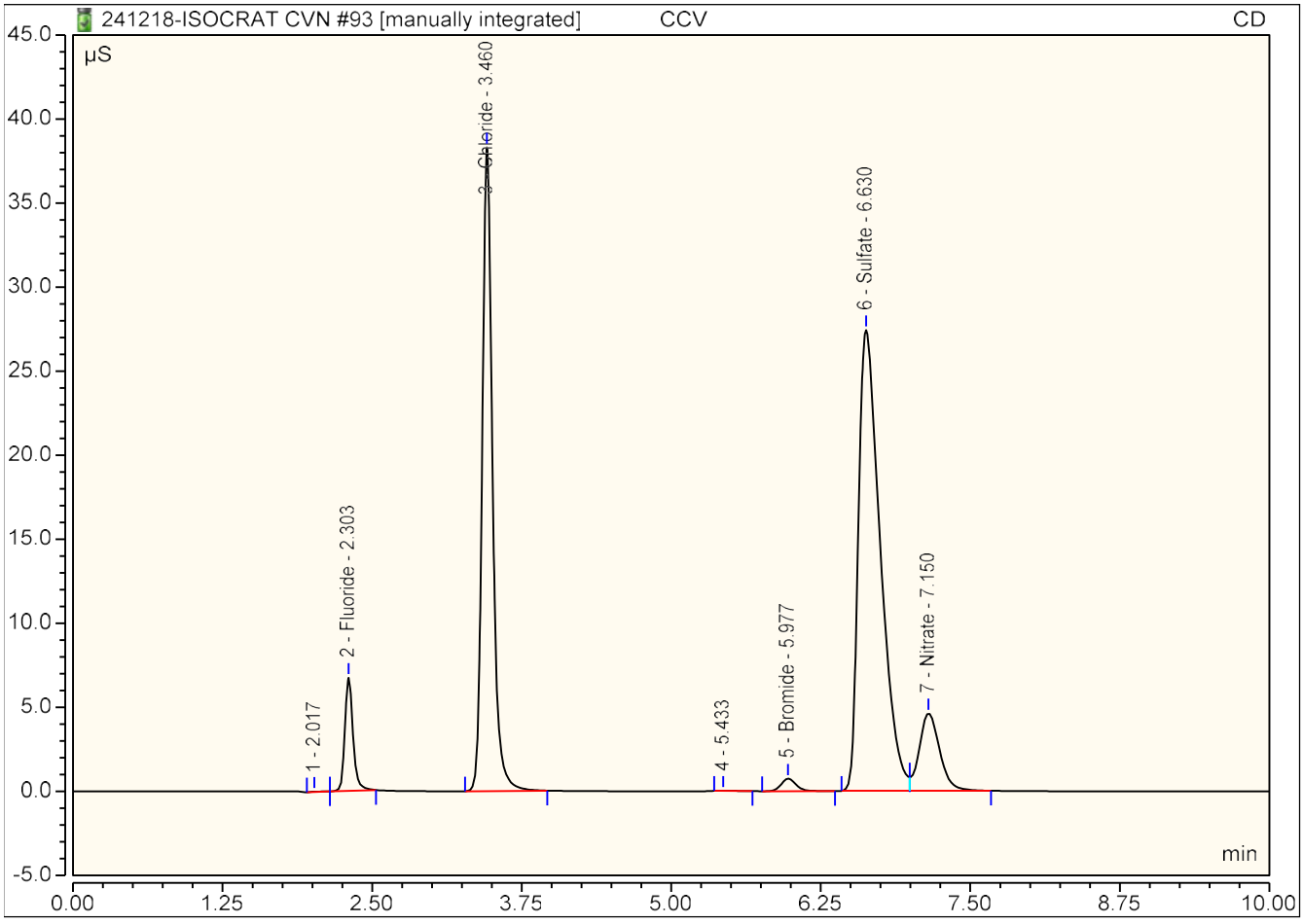
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.001	0.014	0.2399
3	3.46	**Chloride**	BMB*	1.563	15.788	42.7956
5	6.76	**Sulfate**	BM *	0.272	1.530	11.5782
6	7.19	**Nitrate**	MB*	0.041	0.201	0.7018
TOTAL:				1.88	17.53	55.32



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:	**19-Dec-2024 / 01:41**	*Run Time:*	**10.00**

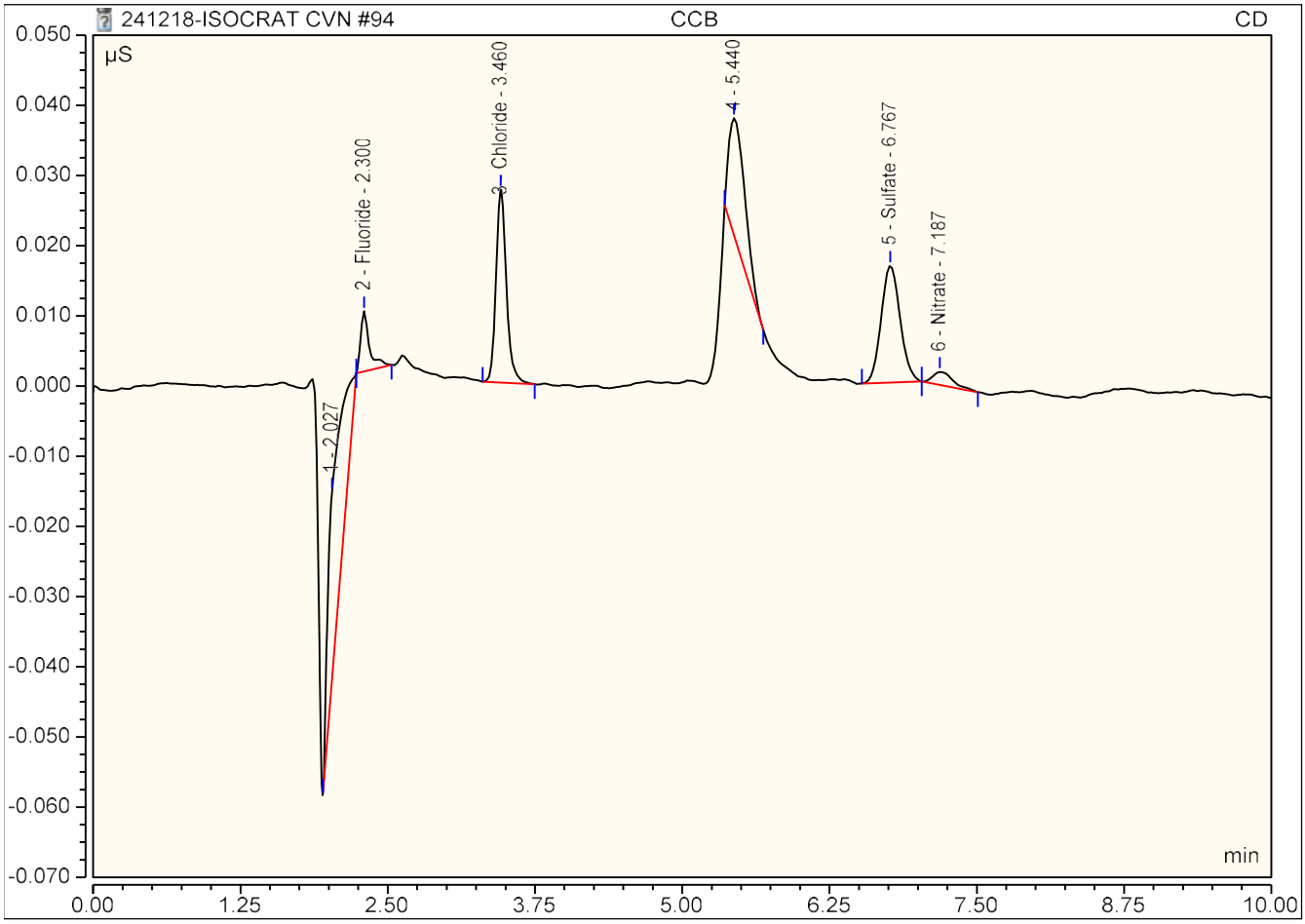
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.528	6.725	1.0240
3	3.46	**Chloride**	BMB*	3.837	38.289	10.3330
5	5.98	**Bromide**	BMB	0.109	0.745	0.9640
6	6.63	**Sulfate**	BM *	5.801	27.406	20.5960
7	7.15	**Nitrate**	MB*	0.908	4.605	1.0320
TOTAL:				11.18	77.77	33.95



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:	**19-Dec-2024 / 01:53**	*Run Time:*	**10.00**

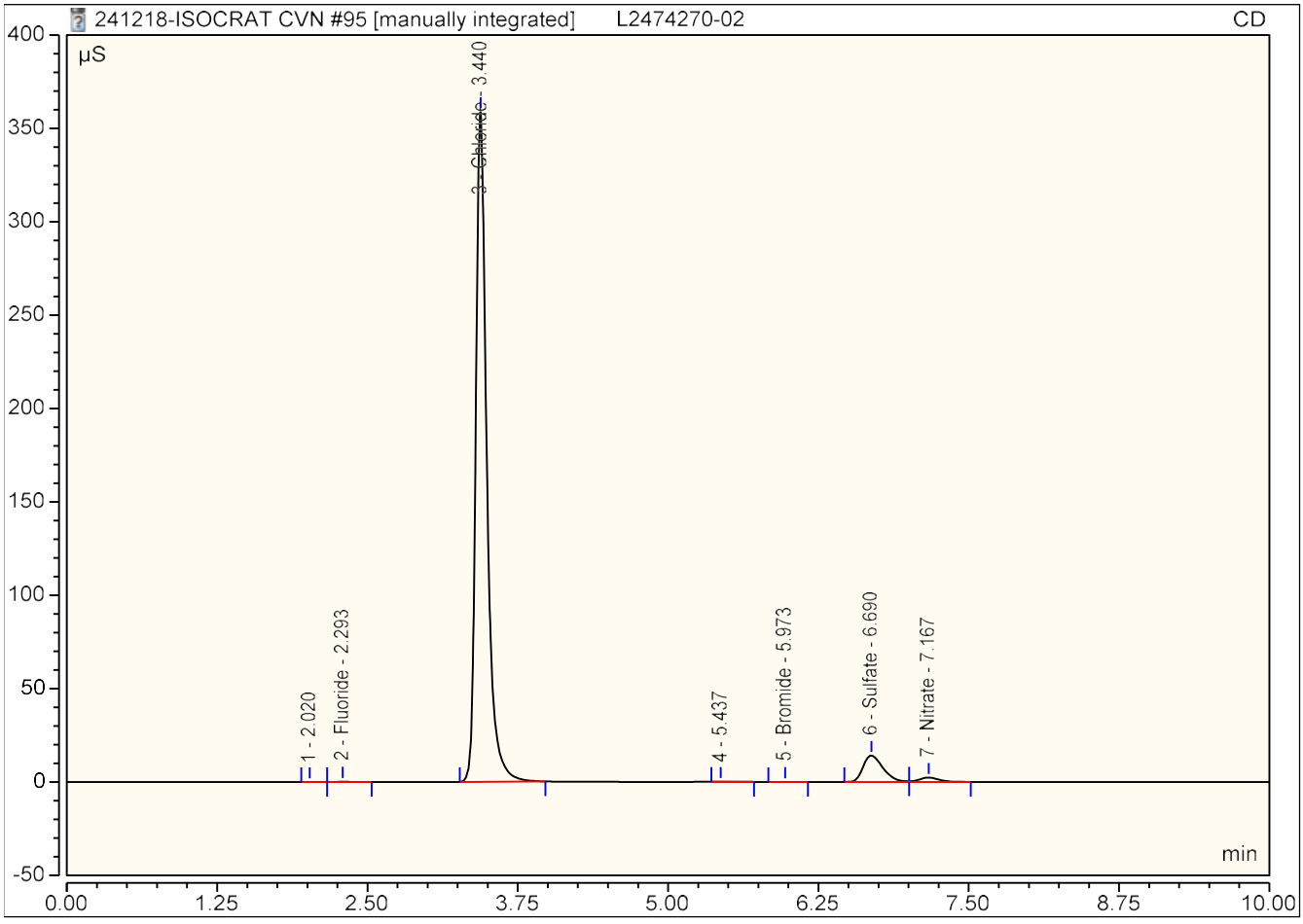
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.001	0.009	0.0230
3	3.46	**Chloride**	BMB	0.003	0.028	0.1251
5	6.77	**Sulfate**	BMB	0.003	0.017	0.2113
6	7.19	**Nitrate**	BMB	0.000	0.002	0.0257
TOTAL:				0.01	0.05	0.39



Peak Integration Report

Sample Name:	**L2474270-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Dec-2024 / 02:05**	*Run Time:*	**10.00**

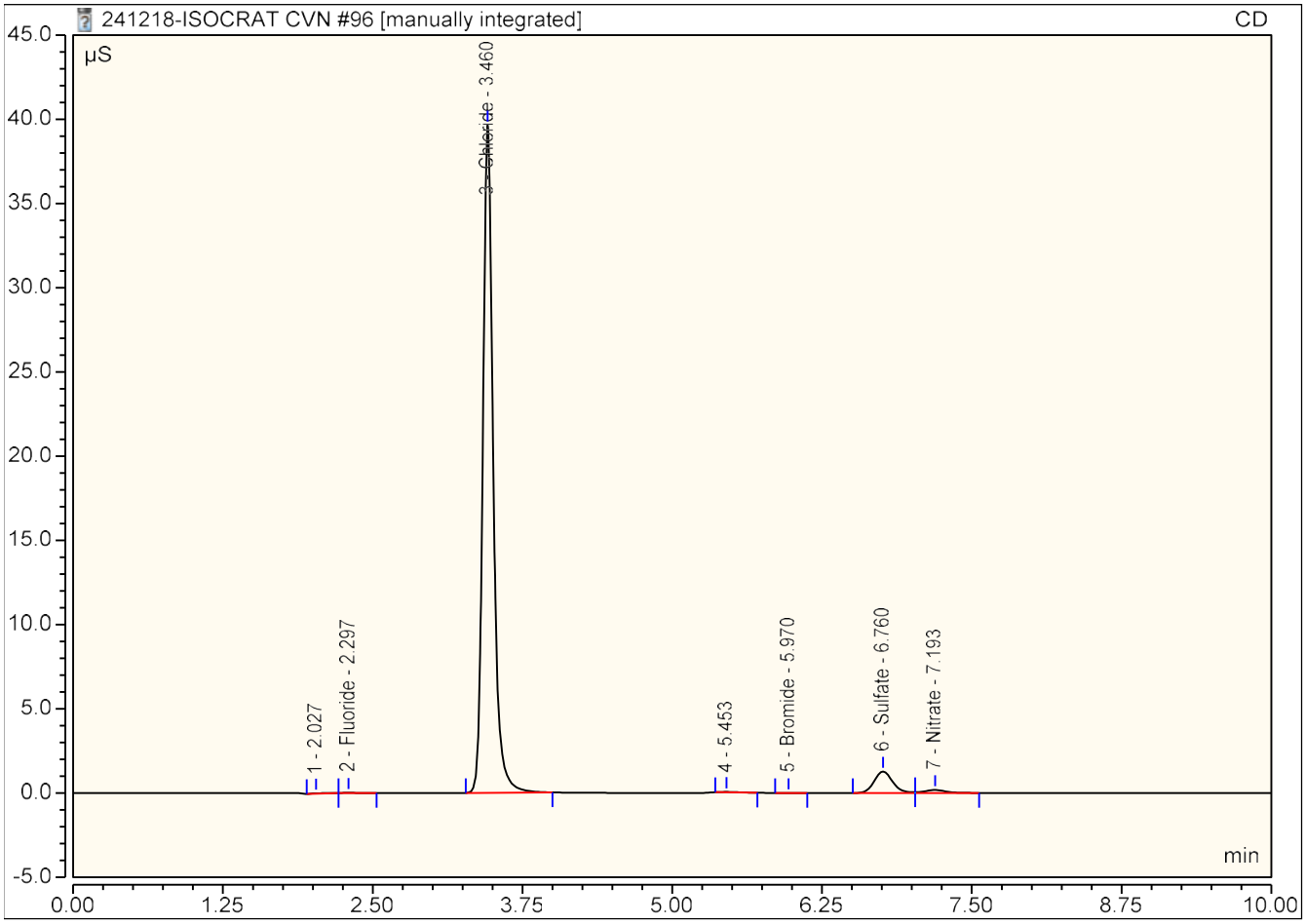
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.020	0.241	0.0588
3	3.44	**Chloride**	BMB*	37.906	358.727	101.0366
5	5.97	**Bromide**	BMB	0.004	0.027	0.0615
6	6.69	**Sulfate**	BM *	2.723	14.176	9.7736
7	7.17	**Nitrate**	MB*	0.440	2.347	0.5127
TOTAL:				41.09	375.52	111.44



Peak Integration Report

Sample Name:	**L2474270-02; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Dec-2024 / 02:17**	*Run Time:*	**10.00**

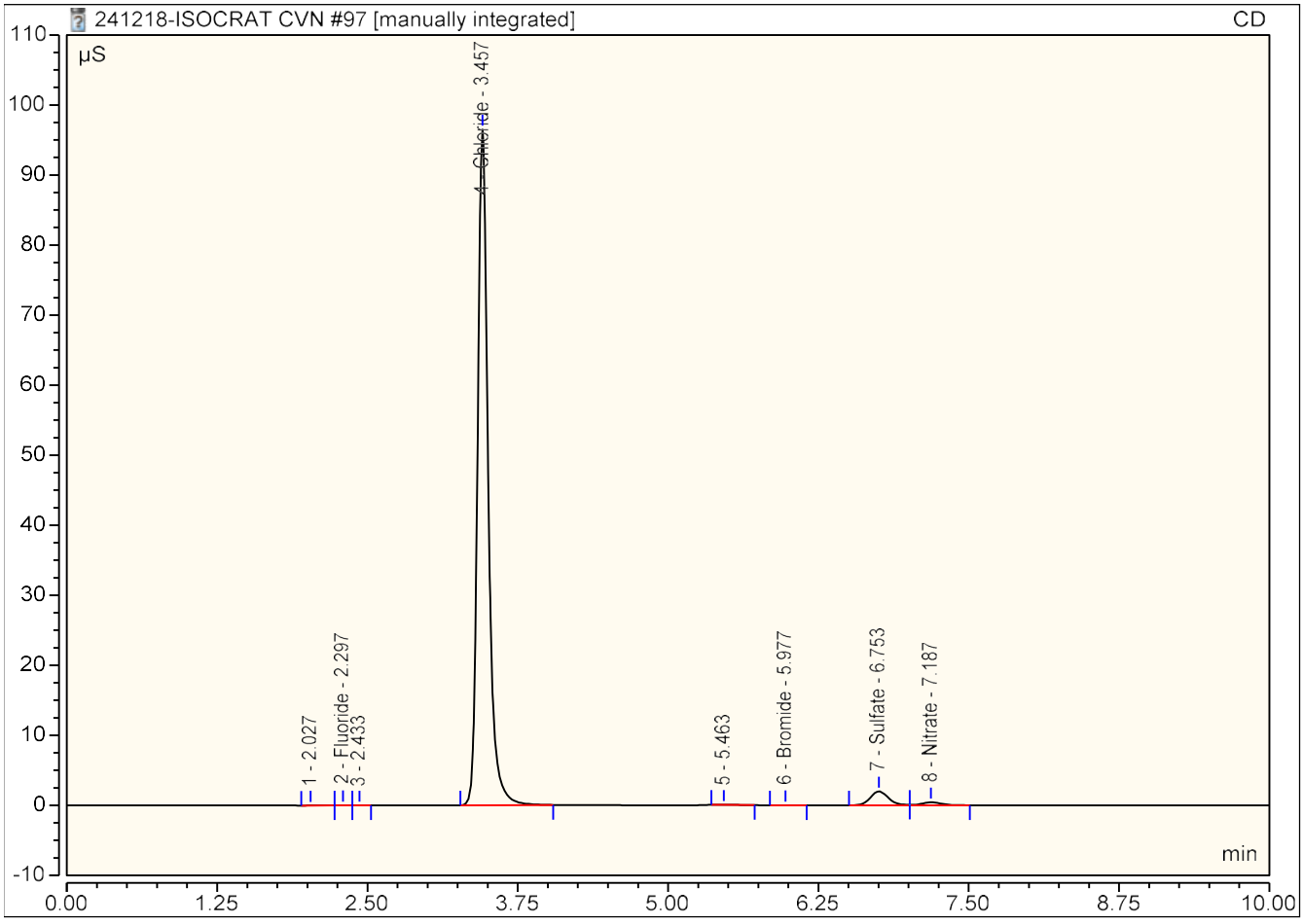
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.002	0.023	0.2523
3	3.46	**Chloride**	BMB*	3.972	39.636	106.9355
5	5.97	**Bromide**	BMB	0.000	0.003	0.3277
6	6.76	**Sulfate**	BM *	0.227	1.277	9.9825
7	7.19	**Nitrate**	MB*	0.037	0.184	0.6604
TOTAL:				4.24	41.12	118.16



Peak Integration Report

Sample Name:	**L2473297-02; 25X CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**25.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Dec-2024 / 02:29**	*Run Time:*	**10.00**

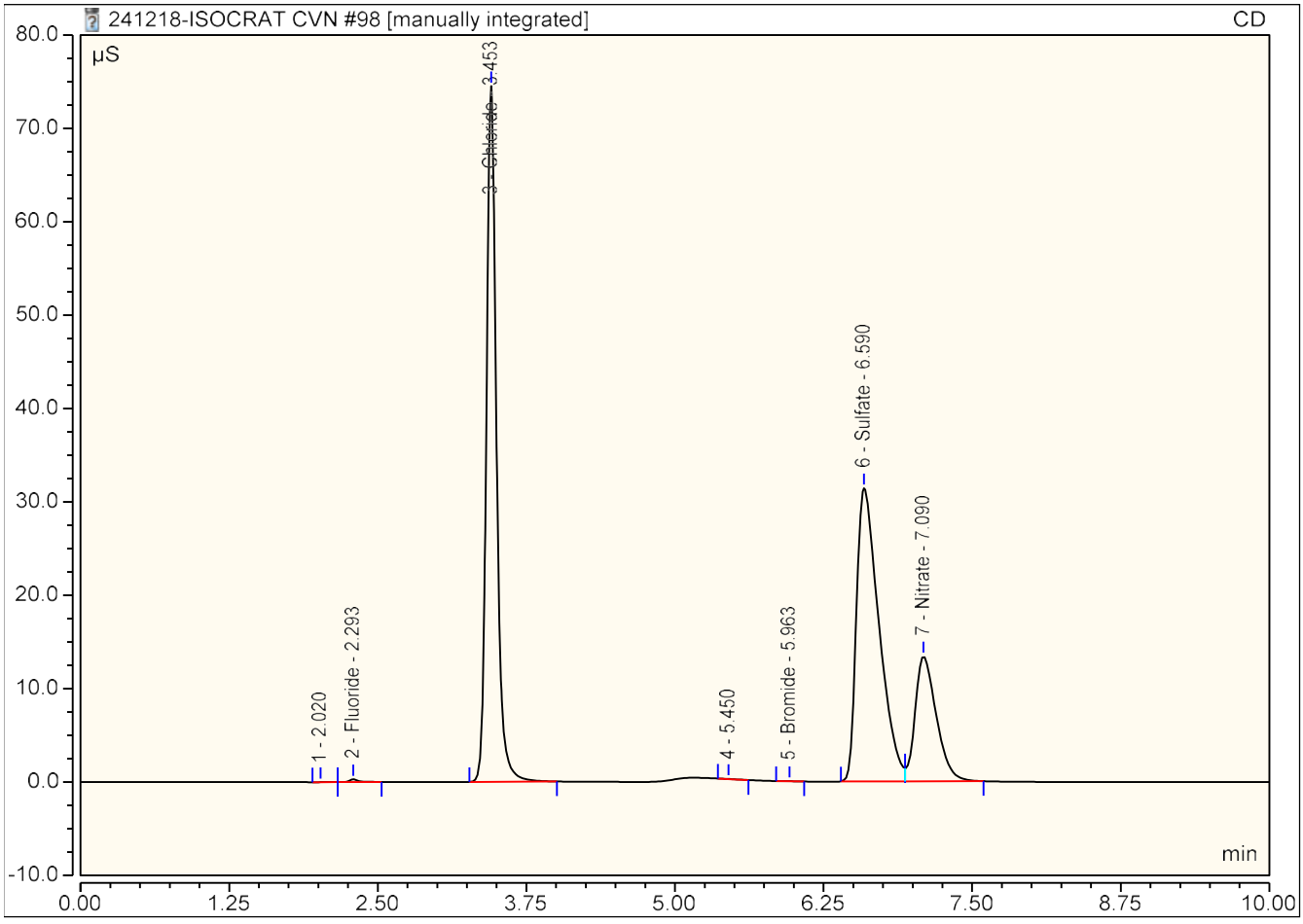
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.001	0.016	0.5892
4	3.46	**Chloride**	BMB*	9.826	96.506	656.9385
6	5.98	**Bromide**	BMB	0.001	0.006	0.9234
7	6.75	**Sulfate**	BM *	0.349	1.978	35.6567
8	7.19	**Nitrate**	MB*	0.080	0.423	2.8551
TOTAL:				10.26	98.93	696.96



Peak Integration Report

Sample Name:	**L2473734-01 CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Dec-2024 / 02:41**	*Run Time:*	**10.00**

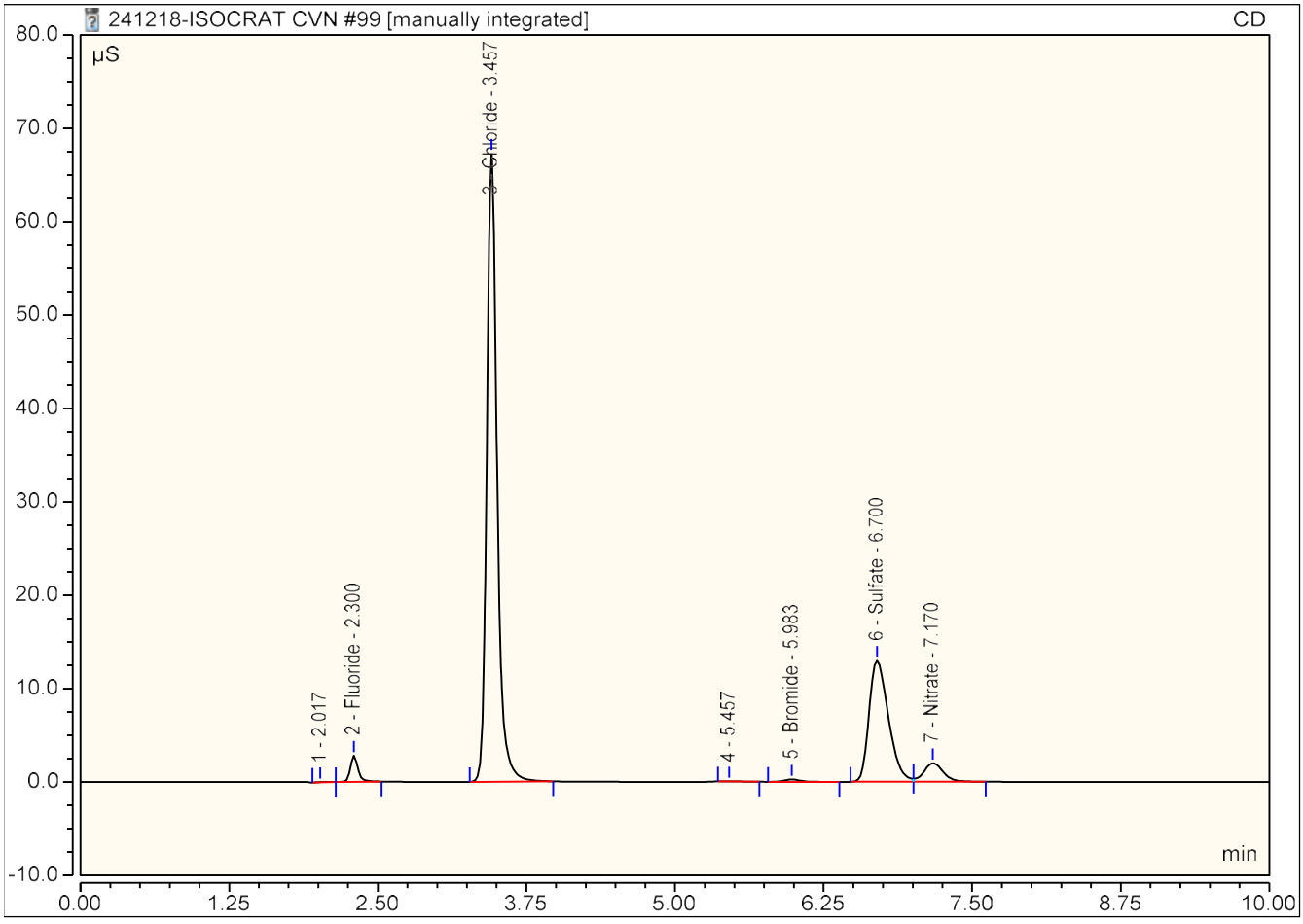
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.023	0.286	0.0657
3	3.45	**Chloride**	BMB*	7.308	74.486	19.5733
5	5.96	**Bromide**	BMB	0.001	0.011	0.0407
6	6.59	**Sulfate**	BM *	6.897	31.380	24.4493
7	7.09	**Nitrate**	MB*	2.767	13.380	3.0933
TOTAL:				17.00	119.54	47.22



Peak Integration Report

Sample Name:	**L2474529-01 MS; 10X CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Dec-2024 / 02:53**	*Run Time:*	**10.00**

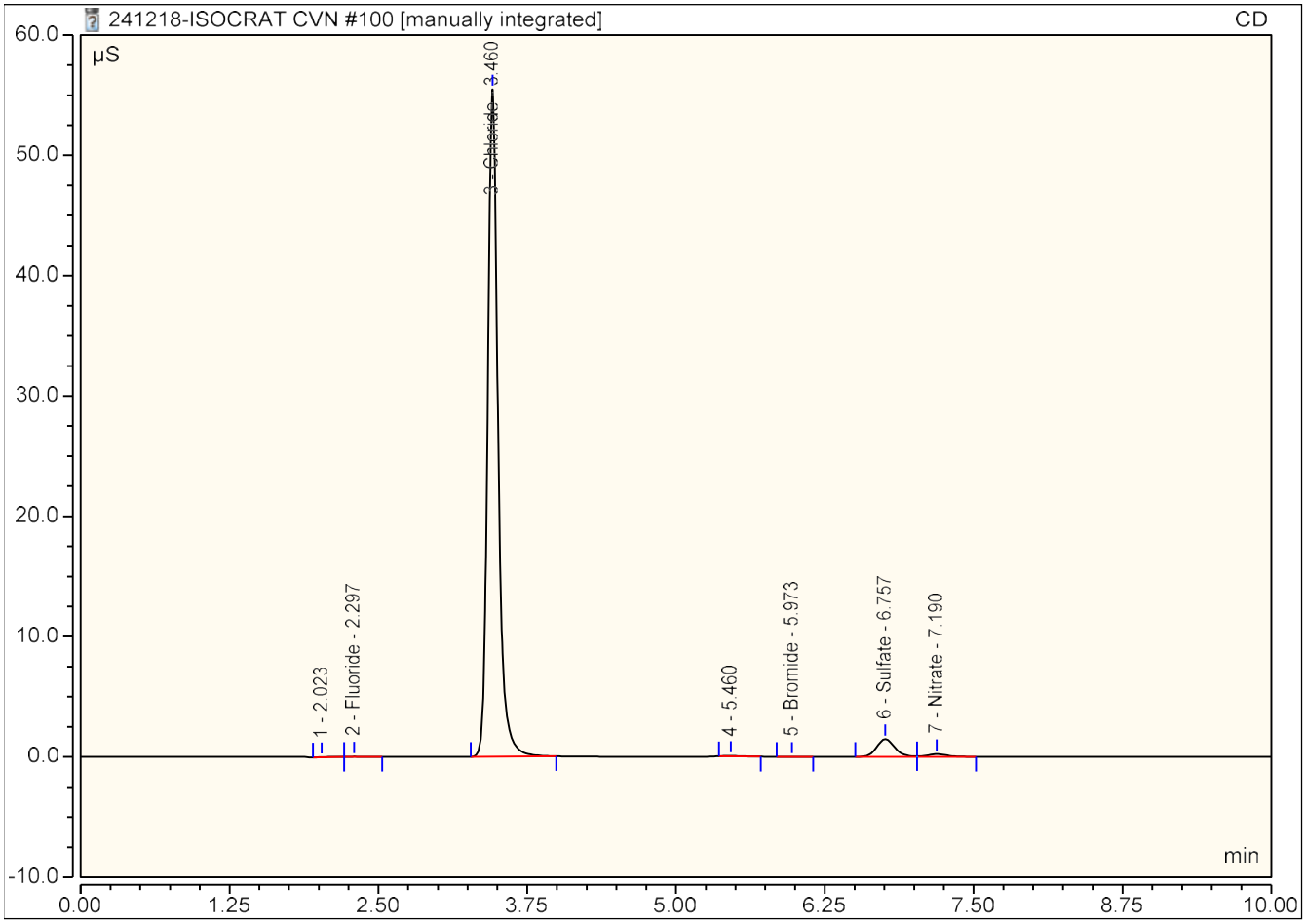
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.212	2.807	4.2397
3	3.46	**Chloride**	BMB*	6.793	67.277	182.0292
5	5.98	**Bromide**	BMB	0.040	0.262	3.7025
6	6.70	**Sulfate**	BM *	2.459	12.975	88.4366
7	7.17	**Nitrate**	MB*	0.379	1.999	4.4584
TOTAL:				9.88	85.32	282.87



Peak Integration Report

Sample Name:	**L2474529-01 DUP; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Dec-2024 / 03:05**	*Run Time:*	**10.00**

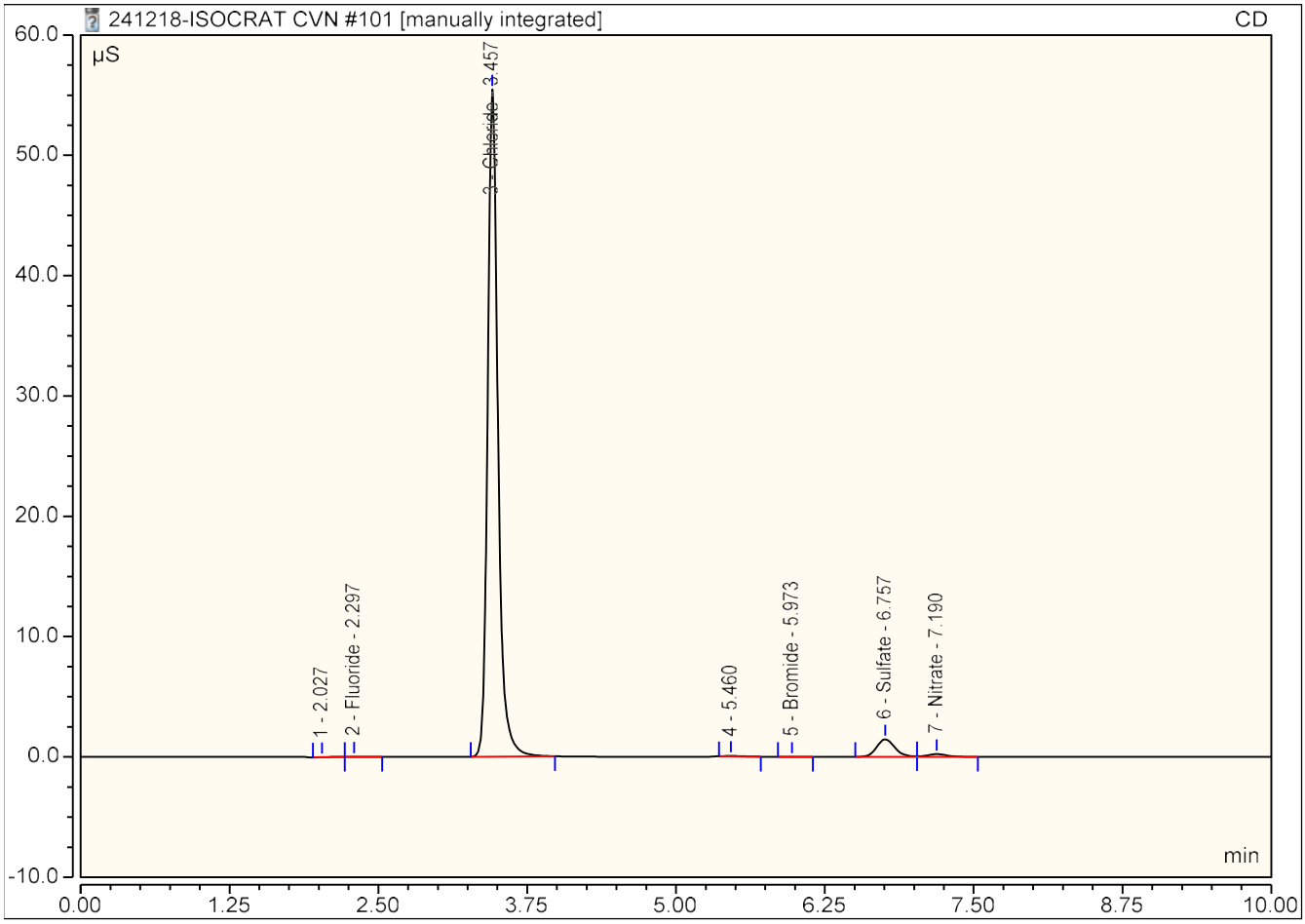
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.002	0.019	0.2466
3	3.46	**Chloride**	BMB*	5.597	55.470	150.1900
5	5.97	**Bromide**	BMB	0.001	0.004	0.3451
6	6.76	**Sulfate**	BM *	0.260	1.466	11.1416
7	7.19	**Nitrate**	MB*	0.043	0.222	0.7338
TOTAL:				5.90	57.18	162.66



Peak Integration Report

Sample Name:	**L2474529-01; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Dec-2024 / 03:18**	*Run Time:*	**10.00**

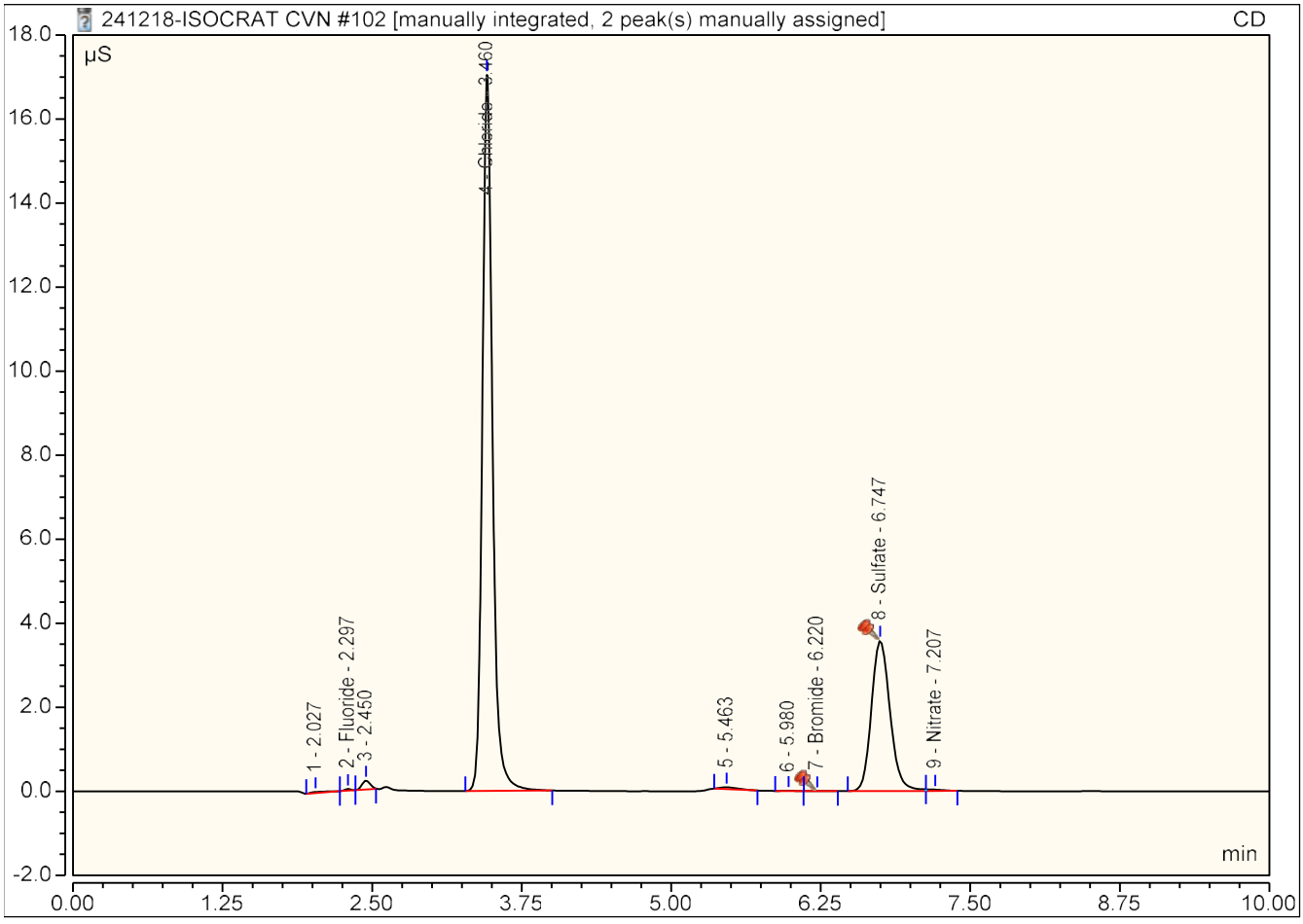
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.002	0.018	0.2453
3	3.46	**Chloride**	BMB*	5.595	55.452	150.1250
5	5.97	**Bromide**	BMB	0.001	0.004	0.3420
6	6.76	**Sulfate**	BM *	0.259	1.462	11.1245
7	7.19	**Nitrate**	MB*	0.044	0.222	0.7386
TOTAL:				5.90	57.16	162.58



Peak Integration Report

Sample Name:	**L2474302-01; 25X CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**25.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Dec-2024 / 03:30**	*Run Time:*	**10.00**

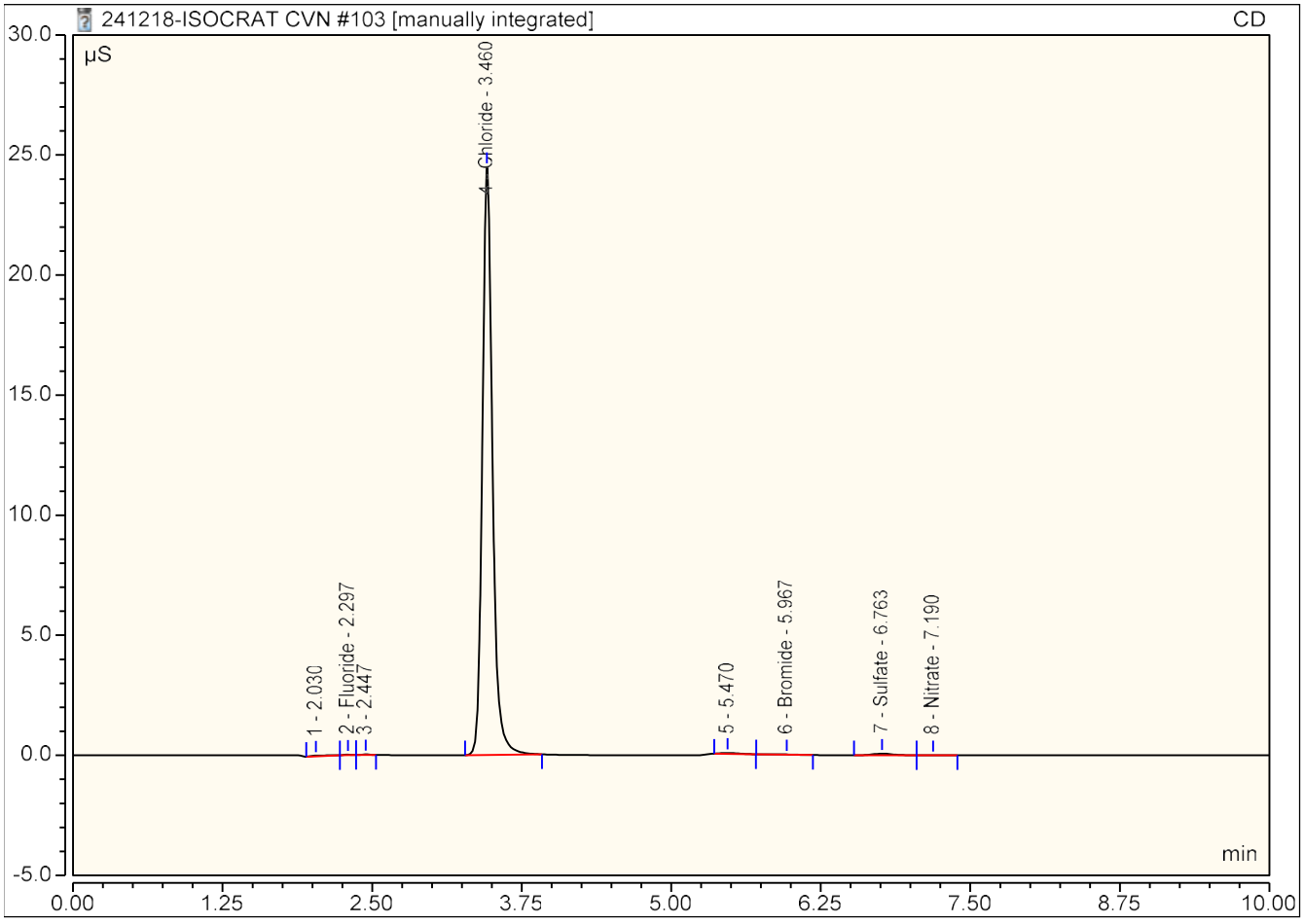
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.002	0.041	0.6570
4	3.46	**Chloride**	BMB*	1.678	17.042	114.6571
7	6.22	**Bromide**	BMB^	0.000	0.002	0.8176
8	6.75	**Sulfate**	BM *^	0.644	3.583	61.6553
9	7.21	**Nitrate**	MB*	0.005	0.030	0.7686
TOTAL:				2.33	20.70	178.56



Peak Integration Report

Sample Name:	**L2474302-02; 25X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**25.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Dec-2024 / 03:42**	*Run Time:*	**10.00**

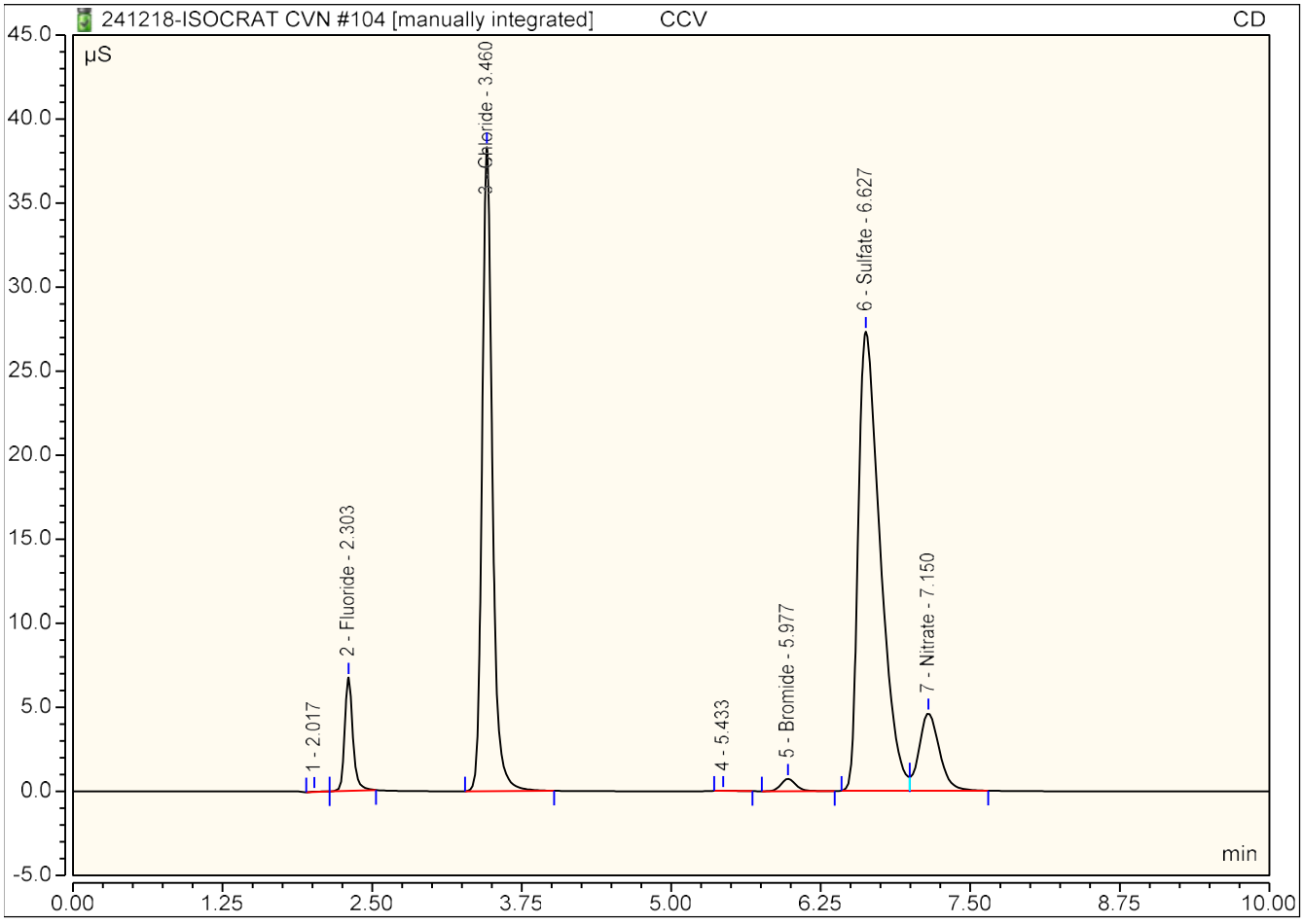
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.001	0.021	0.6046
4	3.46	**Chloride**	BMB*	2.423	24.485	164.2223
6	5.97	**Bromide**	BMB	0.002	0.008	1.1361
7	6.76	**Sulfate**	BMB	0.013	0.069	6.1274
8	7.19	**Nitrate**	BMB	0.001	0.003	0.6461
TOTAL:				2.44	24.59	172.74



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:	**19-Dec-2024 / 03:54**	*Run Time:*	**10.00**

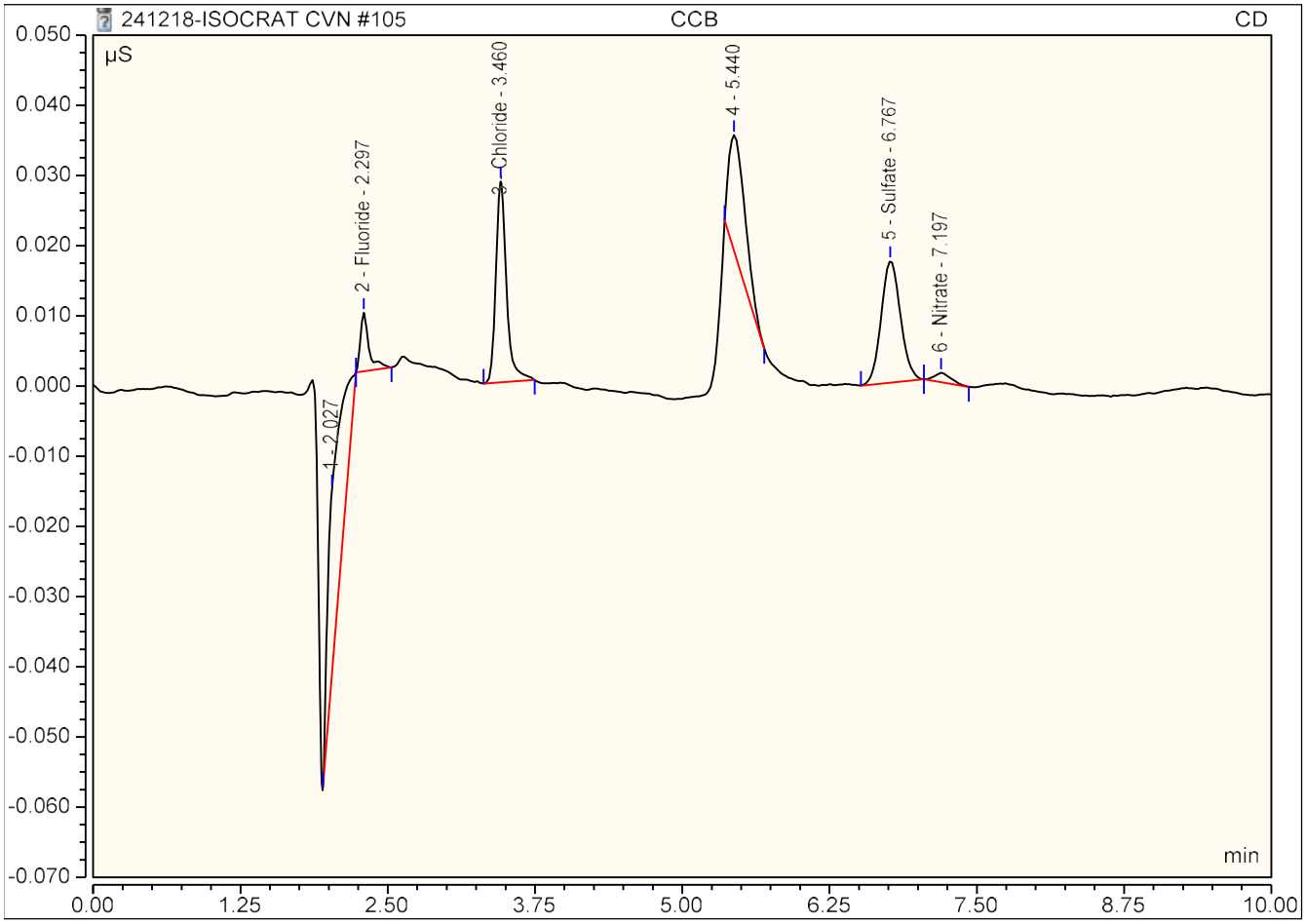
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.528	6.739	1.0245
3	3.46	**Chloride**	BMB*	3.834	38.310	10.3259
5	5.98	**Bromide**	BMB	0.109	0.741	0.9586
6	6.63	**Sulfate**	BM *	5.794	27.313	20.5714
7	7.15	**Nitrate**	MB*	0.905	4.608	1.0289
TOTAL:				11.17	77.71	33.91



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:	**19-Dec-2024 / 04:06**	*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	0.0230
3	3.46	**Chloride**	BMB	0.003	0.029	0.1255
5	6.77	**Sulfate**	BMB	0.003	0.017	0.2120
6	7.20	**Nitrate**	BMB	0.000	0.001	0.0255
TOTAL:				0.01	0.06	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	0.0219	0.1383	0.0258	0.2171	n.a.
9	CCV	1.0	1.0291	10.3519	1.0203	20.6638	0.9842
10	CCB	1.0	0.0234	0.1232	0.0255	0.2109	n.a.
11	ICV	1.0	0.8387	7.9095	0.8143	7.6369	0.7698
12	ICB	1.0	0.0228	0.1241	0.0257	0.2064	n.a.
13	BLK	1.0	0.0220	0.1256	n.a.	0.2048	n.a.
14	LCS	1.0	0.8318	7.8660	0.8162	7.5924	0.7628
15	BLK-2	1.0	0.0226	0.1268	n.a.	0.2061	n.a.
16	LCS-2	1.0	0.8351	7.8573	0.8033	7.6038	0.7636
17	L2472716-01 CL F SO4 MS	1.0	0.5281	7.7509	0.5510	37.3848	0.3268
18	L2472716-01 DUP	1.0	0.1327	3.8339	0.1391	30.4368	0.0329
19	L2472716-01	1.0	0.1314	3.8262	0.1418	30.3978	0.0340
20	L2472716-02	1.0	0.2442	28.4978	n.a.	54.2103	0.0645
21	CCV	1.0	1.0493	10.3706	1.0209	20.7664	0.9703
22	CCB	1.0	0.0225	0.1281	0.0256	0.2108	n.a.
23	L2472716-03	1.0	0.1478	17.0255	n.a.	43.0943	0.0691
24	L2472716-04	1.0	0.2461	19.3435	0.2634	38.4079	0.0593
25	L2472716-05	1.0	0.0980	8.2008	0.6418	26.6973	0.0436
26	L2472716-06	1.0	0.0977	8.2654	0.6468	26.7301	0.0427
27	L2472716-07	1.0	0.0247	0.1292	0.0269	0.2173	n.a.
28	L2472716-09	1.0	0.0956	10.8160	n.a.	43.5647	n.a.
29	L2473032-16 CL; 10X	10.0	0.2423	41.4997	1.0030	15.9563	0.3676
30	L2473032-17; 10X	10.0	0.2428	42.8441	1.0001	16.0993	0.3740
31	L2472932-01 CL; 25X	25.0	0.7656	273.4660	1.8112	25.2081	0.7796
32	L2472932-02; 25X	25.0	0.8103	297.2365	1.9023	28.5548	n.a.
33	CCV	1.0	1.0286	10.3718	1.0189	20.6578	0.9744
34	CCB	1.0	0.0227	0.1279	0.0256	0.2122	n.a.
35	L2473538-01 BR	1.0	0.0381	1.7568	1.1109	12.4367	0.0336
36	L2473538-02	1.0	0.0436	27.8182	6.9923	16.5060	0.0611
37	L2473538-03	1.0	0.0351	42.2093	3.5076	14.9087	0.0456
38	L2473538-04	1.0	0.0294	6.6821	0.7720	2.5026	0.0310
39	L2473538-05	1.0	0.0743	7.3821	n.a.	20.9359	0.0466
40	L2473223-01 F	1.0	0.0905	24.7153	0.1905	21.0244	n.a.
41	L2473277-01 F	1.0	2.9899	515.9866	20.3399	96.1462	n.a.
42	L2473893-01 F CL BR SO4	1.0	0.1928	0.9331	n.a.	5.2270	0.0312
43	L2473893-02	1.0	0.2138	2.4587	n.a.	17.9140	0.0323
44	XL2473893-02; 10X	10.0	0.3792	3.1269	n.a.	17.9989	n.a.
45	CCV	1.0	1.0303	10.3405	1.0221	20.6765	0.9701

46	CCB	1.0	0.0226	0.1259	0.0255	0.2089	n.a.
47	L2473893-03	1.0	0.5927	1.1562	n.a.	12.1580	n.a.
48	L2473893-04	1.0	0.1332	0.6555	0.0310	3.5296	0.0311
49	L2473893-05	1.0	0.3151	1.1316	n.a.	7.9802	n.a.
50	L2473893-06	1.0	0.0794	0.7305	0.0689	4.6715	n.a.
51	L2473893-07	1.0	0.2284	1.2138	0.1546	11.6926	n.a.
52	L2473893-08	1.0	0.2065	1.5391	0.0543	20.5945	n.a.
53	L2473893-09	1.0	0.0872	0.8745	0.0416	10.1371	n.a.
54	L2473893-10	1.0	0.6479	67.0174	n.a.	25.9741	0.1941
55	L2473893-11	1.0	0.2656	3.1766	n.a.	4.8423	0.0319
56	XL2473893-11; 10X	10.0	0.4175	3.6333	n.a.	5.7198	n.a.
57	CCV	1.0	1.0305	10.3251	1.0182	20.5994	0.9655
58	CCB	1.0	0.0226	0.1265	0.0255	0.2103	n.a.
59	L2473893-01 MS	1.0	0.6253	5.0331	0.3967	13.5043	0.3353
60	L2473893-01 DUP	1.0	0.1914	0.8852	n.a.	5.1983	0.0312
61	L2473893-02 MS	1.0	0.6404	6.4965	0.4009	25.5164	0.3291
62	L2473893-02 DUP	1.0	0.2130	2.4261	n.a.	17.8595	0.0323
63	L2473927-01 CL SO4 BR MS	1.0	0.5098	12.3848	3.2900	19.7585	0.3482
64	L2473927-01 DUP	1.0	0.0950	8.5119	2.9425	11.7273	0.0419
65	L2473927-01	1.0	0.0945	8.5391	2.9478	11.7220	0.0415
66	L2473912-01 CL; 25X	25.0	0.5866	739.7544	1.2630	36.7288	1.1043
67	L2473912-02; 25X	25.0	0.5870	752.0160	1.2905	37.2254	1.1151
68	L2473912-04; 25X	25.0	0.5863	752.1229	1.3074	37.3203	1.1048
69	CCV	1.0	1.0272	10.3356	1.0208	20.5750	0.9634
70	CCB	1.0	0.0227	0.1269	0.0256	0.2113	n.a.
71	L2473927-02	1.0	0.1187	10.0976	0.9116	11.0318	0.0622
72	XL2473734-01; 10X CL	10.0	0.2640	20.6395	2.9290	25.2974	n.a.
73	BLK-3	1.0	n.a.	0.1373	0.0255	0.2107	n.a.
74	LCS-3	1.0	0.8318	7.8502	0.8117	7.5417	0.7529
75	L2474529-01 MS CL SO4 NO3	1.0	0.4470	138.9226	1.0213	18.8835	0.4155
76	L2474529-01 DUP	1.0	0.0516	140.9714	0.6252	10.9254	0.0818
77	L2474529-01	1.0	0.0512	141.1199	0.6261	10.9243	0.0807
78	L2473893-10; 10X CL	10.0	0.7062	71.0039	n.a.	26.5803	0.4338
79	L2473747-01 CL SO4	1.0	0.0434	39.3506	0.5954	11.8567	0.0379
80	XL2473747-01; 10X	10.0	0.2380	40.3855	0.5832	11.3114	0.3015
81	CCV	1.0	1.0264	10.3220	1.0172	20.5488	0.9633
82	CCB	1.0	0.0231	0.1274	0.0255	0.2137	n.a.
83	L2474067-02 SO4	1.0	0.2923	20.0404	0.0280	n.a.	0.0574
84	L2473347-01 F	1.0	0.6857	24.0017	1.0544	7.8279	n.a.
85	L2474244-01 F	1.0	0.6650	82.5033	1.2999	19.9588	n.a.
86	L2474146-01 CL SO4	1.0	0.0409	22.1740	0.1676	8.2824	0.1119
87	XL2474146-01; 10X	10.0	0.2368	23.1357	0.3953	8.7008	0.3727
88	L2474183-14 CL SO4	1.0	0.9845	8.3668	0.6325	7.9538	0.0340
89	XL2474183-14; 10X	10.0	0.9927	8.9936	0.7594	8.5815	n.a.
90	L2474195-01 CL	1.0	0.0438	26.3616	0.6237	8.8732	n.a.
91	L2474270-01 CL SO4	1.0	0.0435	40.5206	0.5574	11.4926	0.0370
92	XL2474270-01; 10X	10.0	0.2399	42.7956	0.7018	11.5782	n.a.

93	CCV	1.0	1.0240	10.3330	1.0320	20.5960	0.9640
94	CCB	1.0	0.0230	0.1251	0.0257	0.2113	n.a.
95	L2474270-02	1.0	0.0588	101.0366	0.5127	9.7736	0.0615
96	L2474270-02; 10X	10.0	0.2523	106.9355	0.6604	9.9825	0.3277
97	L2473297-02; 25X CL	25.0	0.5892	656.9385	2.8551	35.6567	0.9234
98	L2473734-01 CL	1.0	0.0657	19.5733	3.0933	24.4493	0.0407
99	L2474529-01 MS; 10X CL	10.0	4.2397	182.0292	4.4584	88.4366	3.7025
100	L2474529-01 DUP; 10X	10.0	0.2466	150.1900	0.7338	11.1416	0.3451
101	L2474529-01; 10X	10.0	0.2453	150.1250	0.7386	11.1245	0.3420
102	L2474302-01; 25X CL	25.0	0.6570	114.6571	0.7686	61.6553	0.8176
103	L2474302-02; 25X	25.0	0.6046	164.2223	0.6461	6.1274	1.1361
104	CCV	1.0	1.0245	10.3259	1.0289	20.5714	0.9586
105	CCB	1.0	0.0230	0.1255	0.0255	0.2120	n.a.
	Sum:	423.000	48.8000		104.0606	1819.5110	36.9965
	Average:	4.029	0.4692		1.1961	17.4953	0.5211
	Rel.Std.Dev:	168.266 %	1.5774		2.0121	1.0568	1.6028

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
18/Dec/2024 08:34	010725-897-901-895--037
18/Dec/2024 08:46	LOT#241212-C
18/Dec/2024 08:58	CVN
18/Dec/2024 09:10	LOT#241212-I
18/Dec/2024 09:22	CVN
18/Dec/2024 09:34	CVN
18/Dec/2024 09:46	LOT#241212-I
18/Dec/2024 09:58	CVN
18/Dec/2024 10:10	LOT#241212-I
18/Dec/2024 10:22	CVN
18/Dec/2024 10:35	CVN
18/Dec/2024 10:47	CVN
18/Dec/2024 10:59	CVN
18/Dec/2024 11:11	LOT#241212-C
18/Dec/2024 11:23	CVN
18/Dec/2024 11:35	CVN
18/Dec/2024 11:47	CVN
18/Dec/2024 11:59	CVN
18/Dec/2024 12:11	CVN
18/Dec/2024 12:23	CVN
18/Dec/2024 12:35	CVN
18/Dec/2024 12:47	CVN
18/Dec/2024 13:00	CVN
18/Dec/2024 13:12	CVN
18/Dec/2024 13:24	CVN
18/Dec/2024 13:36	LOT#241212-C
18/Dec/2024 13:48	CVN
18/Dec/2024 14:00	CVN
18/Dec/2024 14:12	CVN
18/Dec/2024 14:24	CVN
18/Dec/2024 14:36	CVN
18/Dec/2024 14:48	CVN
18/Dec/2024 15:00	CVN
18/Dec/2024 15:12	CVN
18/Dec/2024 15:24	CVN
18/Dec/2024 15:37	CVN
18/Dec/2024 15:49	CVN
18/Dec/2024 16:01	LOT#241212-C

18/Dec/2024 16:13	CVN
18/Dec/2024 16:25	CVN
18/Dec/2024 16:37	CVN
18/Dec/2024 16:49	CVN
18/Dec/2024 17:01	CVN
18/Dec/2024 17:13	CVN
18/Dec/2024 17:25	CVN
18/Dec/2024 17:37	CVN
18/Dec/2024 17:50	CVN
18/Dec/2024 18:02	CVN
18/Dec/2024 18:14	CVN
18/Dec/2024 18:26	LOT#241212-C
18/Dec/2024 18:38	CVN
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18/Dec/2024 20:02	CVN
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18/Dec/2024 20:39	CVN
18/Dec/2024 20:51	LOT#241212-C
18/Dec/2024 21:03	CVN
18/Dec/2024 21:15	CVN
18/Dec/2024 21:27	CVN
18/Dec/2024 21:39	CVN
18/Dec/2024 21:51	LOT#241212-I
18/Dec/2024 22:03	CVN
18/Dec/2024 22:16	CVN
18/Dec/2024 22:28	CVN
18/Dec/2024 22:40	CVN
18/Dec/2024 22:52	CVN
18/Dec/2024 23:04	CVN
18/Dec/2024 23:16	LOT#241212-C
18/Dec/2024 23:28	CVN
18/Dec/2024 23:40	CVN
18/Dec/2024 23:52	CVN
19/Dec/2024 00:04	CVN
19/Dec/2024 00:16	CVN
19/Dec/2024 00:28	CVN
19/Dec/2024 00:41	CVN
19/Dec/2024 00:53	CVN
19/Dec/2024 01:05	CVN
19/Dec/2024 01:17	CVN
19/Dec/2024 01:29	CVN

19/Dec/2024 01:41	LOT#241212-C
19/Dec/2024 01:53	CVN
19/Dec/2024 02:05	CVN
19/Dec/2024 02:17	CVN
19/Dec/2024 02:29	CVN
19/Dec/2024 02:41	CVN
19/Dec/2024 02:53	CVN
19/Dec/2024 03:05	CVN
19/Dec/2024 03:18	CVN
19/Dec/2024 03:30	CVN
19/Dec/2024 03:42	CVN
19/Dec/2024 03:54	LOT#241212-C
19/Dec/2024 04:06	CVN
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Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2473893-01		
Matrix Spike	: WG2010901-3	**MS Analysis Date**	: 12/18/24 18:50
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Bromide	0.031J	0.4	0.335	84	Q					90-110	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 12/18/24 15:24
Dup Sample ID	: WG2010901-4	**DUP Analysis Date**	: 12/18/24 19:02

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Bromide	0.031J	0.031J	NC	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2473538
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2010901-2	**LCS Analysis Date**	: 12/18/24 10:10
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Bromide	0.800	0.764	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
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

January 24, 2025

Jennifer Byrnes

,

RE: Project: L2473538
Pace Project No.: 70327669

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on December 14, 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
516-370-6000

CERTIFICATIONS

Project: L2473538
Pace Project No.: 70327669

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

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Melville, NY 11747
516-370-6000

SAMPLE SUMMARY

Project: L2473538
Pace Project No.: 70327669

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70327669001	PZ-5	Water	12/13/24 08:20	12/14/24 07:40
70327669002	MW-5D	Water	12/13/24 09:45	12/14/24 07:40
70327669003	SCDOH-DR	Water	12/13/24 11:20	12/14/24 07:40
70327669004	MW-10S	Water	12/13/24 12:43	12/14/24 07:40
70327669005	MW-10D	Water	12/13/24 12:30	12/14/24 07:40

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SAMPLE ANALYTE COUNT

Project: L2473538
Pace Project No.: 70327669

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70327669001	PZ-5	SM22 4500-S2 F	JWM	1
70327669002	MW-5D	SM22 4500-S2 F	JWM	1
70327669003	SCDOH-DR	SM22 4500-S2 F	JWM	1
70327669004	MW-10S	SM22 4500-S2 F	JWM	1
70327669005	MW-10D	SM22 4500-S2 F	JWM	1

PACE-MV = Pace Analytical Services - Melville

REPORT OF LABORATORY ANALYSIS

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Melville, NY 11747
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PROJECT NARRATIVE

Project: L2473538
Pace Project No.: 70327669

Method: SM22 4500-S2 F
Description: 4500S2F W Sulfide Iodometric
Client: Alpha Analytical
Date: January 24, 2025

General Information:
5 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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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: L2473538
Pace Project No.: 70327669

Sample: PZ-5 Lab ID: 70327669001 Collected: 12/13/24 08:20 Received: 12/14/24 07:40 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 15:18		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L2473538
Pace Project No.: 70327669

Sample: MW-5D Lab ID: 70327669002 Collected: 12/13/24 09:45 Received: 12/14/24 07:40 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 15:20		

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ANALYTICAL RESULTS

Project: L2473538
Pace Project No.: 70327669

Sample: SCDOH-DR Lab ID: 70327669003 Collected: 12/13/24 11:20 Received: 12/14/24 07:40 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 15:23		

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516-370-6000

ANALYTICAL RESULTS

Project: L2473538
Pace Project No.: 70327669

Sample: MW-10S Lab ID: 70327669004 Collected: 12/13/24 12:43 Received: 12/14/24 07:40 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 15:26		

REPORT OF LABORATORY ANALYSIS

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Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: L2473538
Pace Project No.: 70327669

Sample: MW-10D Lab ID: 70327669005 Collected: 12/13/24 12:30 Received: 12/14/24 07:40 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 15:29		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: L2473538
Pace Project No.: 70327669

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: 70327669001, 70327669002, 70327669003, 70327669004, 70327669005

METHOD BLANK: 1969283 Matrix: Water
Associated Lab Samples: 70327669001, 70327669002, 70327669003, 70327669004, 70327669005

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.

REPORT OF LABORATORY ANALYSIS

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Melville, NY 11747
516-370-6000

QUALIFIERS

Project: L2473538
Pace Project No.: 70327669

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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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2473538
Pace Project No.: 70327669

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70327669001	PZ-5	SM22 4500-S2 F	375794		
70327669002	MW-5D	SM22 4500-S2 F	375794		
70327669003	SCDOH-DR	SM22 4500-S2 F	375794		
70327669004	MW-10S	SM22 4500-S2 F	375794		
70327669005	MW-10D	SM22 4500-S2 F	375794		

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WO# : 70327669

70327669

Subcontract Chain of Custody

Pace Analytical (Melville)
575 Broad Hollow Road
Melville, NY 11747

Pace Job Number
L2473538

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: L2473538 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
	L2473538-01	PZ-5	12-13-24 08:20	WATER	Sulfide			0
	L2473538-02	MW-5D	12-13-24 09:45	WATER	Sulfide			0
	L2473538-03	SCDOH-DR	12-13-24 11:20	WATER	Sulfide			0
	L2473538-04	MW-10S	12-13-24 12:43	WATER	Sulfide			0
	L2473538-05	MW-10D	12-13-24 12:30	WATER	Sulfide			0

	Relinquished By:	Date/Time:	Received By:	Date/Time:
	COURIER (PACE)	12/13/24 1831	P-LL 12/14/24	7:40
	Oman Pace	12-14-24 7:40		
Form No: AL_subcoc				

DC#_Title: Excel Form Template
Effective Date:

WO#: 70327669
PM: BDR **Due Date: 12/26/24**
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: T14211 Correction Factor: 0.0 ☐ Samples on ice, cooling process has begun
Cooler Temperature(°C): 0.8 Cooler Temperature Corrected(°C): 0.8 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: SH 12/14/24

				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 Matrix: SL WT OIL OTHER	☑Yes	☐No		12.

Date and Initials of person checking preservation: SH 12/14/24

All containers needing preservation have been checked.	☐Yes	☐No	☑N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				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 #				Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
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: L2473538
Pace Project No.: 50390320

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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Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: L2473538
Pace Project No.: 50390320

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

REPORT OF LABORATORY ANALYSIS

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(317)228-3100

SAMPLE SUMMARY

Project: L2473538
Pace Project No.: 50390320

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50390320001	**PZ-5**	Water	12/13/24 08:20	12/17/24 09:40
50390320002	**MW-5D**	Water	12/13/24 09:45	12/17/24 09:40
50390320003	**SCDOH-DR**	Water	12/13/24 11:20	12/17/24 09:40
50390320004	**MW-10S**	Water	12/13/24 12:43	12/17/24 09:40
50390320005	**MW-10D**	Water	12/13/24 12:30	12/17/24 09:40

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SAMPLE ANALYTE COUNT

Project: L2473538
Pace Project No.: 50390320

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50390320001	**PZ-5**	EPA 9056	DMP1	1
50390320002	**MW-5D**	EPA 9056	DMP1	1
50390320003	**SCDOH-DR**	EPA 9056	DMP1	1
50390320004	**MW-10S**	EPA 9056	DMP1	1
50390320005	**MW-10D**	EPA 9056	DMP1	1

PASI-I = Pace Analytical Services - Indianapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L2473538
Pace Project No.: 50390320

Sample: PZ-5 **Lab ID: 50390320001** Collected: 12/13/24 08:20 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 07:32		

REPORT OF LABORATORY ANALYSIS

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Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: L2473538
Pace Project No.: 50390320

Sample: MW-5D **Lab ID: 50390320002** Collected: 12/13/24 09:45 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 07:53		

REPORT OF LABORATORY ANALYSIS

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(317)228-3100

ANALYTICAL RESULTS

Project: L2473538
Pace Project No.: 50390320

Sample: SCDOH-DR **Lab ID: 50390320003** Collected: 12/13/24 11:20 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 08:14		

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(317)228-3100

ANALYTICAL RESULTS

Project: L2473538
Pace Project No.: 50390320

Sample: MW-10S **Lab ID: 50390320004** Collected: 12/13/24 12:43 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 08:36		

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Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: L2473538
Pace Project No.: 50390320

Sample: MW-10D **Lab ID: 50390320005** Collected: 12/13/24 12:30 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 08:57		

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Pace Analytical Services, LLC
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Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: L2473538
Pace Project No.: 50390320

QC Batch: 824470 | Analysis Method: EPA 9056
QC Batch Method: EPA 9056 | Analysis Description: 9056 Iodide by IC
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50390320001, 50390320002, 50390320003, 50390320004, 50390320005

METHOD BLANK: 3773866 Matrix: Water
Associated Lab Samples: 50390320001, 50390320002, 50390320003, 50390320004, 50390320005

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	

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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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: L2473538
Pace Project No.: 50390320

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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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2473538
Pace Project No.: 50390320

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50390320001	**PZ-5**	EPA 9056	824470		
50390320002	**MW-5D**	EPA 9056	824470		
50390320003	**SCDOH-DR**	EPA 9056	824470		
50390320004	**MW-10S**	EPA 9056	824470		
50390320005	**MW-10D**	EPA 9056	824470		

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WO# : 50390320

50390320

Subcontract Chain of Custody

Pace Analytical (Indianapolis, IN)
7726 Moller Road
Indianapolis, IN 46268

Pace Job Number
L2473538

Page 1

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: L2473538 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
	L2473538-01	PZ-5	12-13-24 08:20	WATER	Iodide			1
	L2473538-02	MW-5D	12-13-24 09:45	WATER	Iodide			1
	L2473538-03	SCDOH-DR	12-13-24 11:20	WATER	Iodide			1
	L2473538-04	MW-10S	12-13-24 12:43	WATER	Iodide			1
	L2473538-05	MW-10D	12-13-24 12:30	WATER	Iodide			1

	Relinquished By:	Date/Time:	Received By:	Date/Time:
		12/16/24	FedEx	—
	FedEx	12/17/24 940	Pace	12/17/24 940
Form No: AL_subcoc				

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): (Initial/Corrected) 1.2 / 1.1 | | | |

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: [X] Yes [ ] No

(If yes)Seals Intact: [X] Yes [ ] No (leave blank if no seals were present)

5. Packing Material: [ ] Bubble Wrap [ ] Bubble Bags [X] None [ ] Other _____

6. Ice Type: [X] 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																													W
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
Red	Yellow	Green	Black
HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass

Plastic

BP1B	1L NaOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn, Ac
BP2N	500mL HNO3 plastic
BP2C	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
BP3F	250mL HNO3 plastic-field filtered
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, ZnAc plastic
NT3U	Non Teflon 250mL unpreserved plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

Laboratory Report

Report prepared for:
Jennifer Byrnes
Pace Analytical Services, LLC
8 Walkup Drive
Westborough, MA 01581
Email: jennifer.byrnes@pacelabs.com, west.subreports@pacelabs.com

Report prepared by:
Debbie S Robertson

Purchase Order:

For further assistance, contact:
Debbie S Robertson
Report Production Coordinator
PO Box 51610
Knoxville, TN 37950 -1610
(865) 546-1335
debbierobertson@galbraith.com

Sample: L2473538 PZ-5
Lab ID: 2024-V-2864 **Received:** 2024-12-17

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	204.87 mg	2025-01-03

Sample: L2473538 MW-5D
Lab ID: 2024-V-2865 **Received:** 2024-12-17

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	204.86 mg	2025-01-03

Sample: L2473538 SCDOH-DR
Lab ID: 2024-V-2866 **Received:** 2024-12-17

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	204.53 mg	2025-01-03

Sample: L2473538 MW-10S
Lab ID: 2024-V-2867 **Received:** 2024-12-17

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	203.71 mg	2025-01-03

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Sample: L2473538 MW-10D
Lab ID: 2024-V-2868 **Received:** 2024-12-17

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	204.62 mg	2025-01-03

Signatures:

Published By:	Debbie.S.Robertson	2025-01-06T20:45:33.54-05:00
Created By:	Debbie.S.Robertson	2025-01-06T20:44:46.63-05:00

- Physical signatures are on file.
- "Published By" signature indicates authorized release of data.

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

January 22, 2025

Jennifer Byrnes
Pace Westborough
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2473538
Pace Project No.: 30742906

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on December 16, 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 - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Skyler C. Richmond
skyler.richmond@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Customer Service, Alpha Analytical

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: L2473538
Pace Project No.: 30742906

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

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Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: L2473538
Pace Project No.: 30742906

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30742906001	**L2473538-08 MW-10S_R**	Water	12/13/24 12:43	12/16/24 22:00
30742906002	**L2473538-09 EB_12132024_R**	Water	12/13/24 13:30	12/16/24 22:00

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
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SAMPLE ANALYTE COUNT

Project: L2473538
Pace Project No.: 30742906

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30742906001	**L2473538-08 MW-10S_R**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		HSL-300	JJY	6	PASI-PA
30742906002	**L2473538-09 EB_12132024_R**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		HSL-300	JJY	6	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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Greensburg, PA 15601
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: L2473538
Pace Project No.: 30742906

Sample: L2473538-08 MW-10S_R **Lab ID: 30742906001** Collected: 12/13/24 12:43 Received: 12/16/24 22:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**-0.171 ± 0.643 (1.28) C:NA T:96%**	pCi/L	01/02/25 14:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.576 ± 0.350 (0.636) C:77% T:91%**	pCi/L	01/03/25 14:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Thorium-228	HSL-300	**0.076 ± 0.193 (0.444) C:NA T:78%**	pCi/L	01/02/25 14:43	14274-82-9	
Thorium-230	HSL-300	**-0.016 ± 0.121 (0.200) C:NA T:78%**	pCi/L	01/02/25 14:43	14269-63-7	
Thorium-232	HSL-300	**0.059 ± 0.122 (0.168) C:NA T:78%**	pCi/L	01/02/25 14:43	7440-29-1	
Uranium-234	HSL-300	**0.146 ± 0.143 (0.210) C:NA T:89%**	pCi/L	01/02/25 14:42	13966-29-5	
Uranium-235	HSL-300	**0.189 ± 0.168 (0.102) C:NA T:89%**	pCi/L	01/02/25 14:42	15117-96-1	
Uranium-238	HSL-300	**0.225 ± 0.164 (0.144) C:NA T:89%**	pCi/L	01/02/25 14:42		

Sample: L2473538-09 EB_12132024_R **Lab ID: 30742906002** Collected: 12/13/24 13:30 Received: 12/16/24 22:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.321 ± 0.665 (1.17) C:NA T:93%**	pCi/L	01/02/25 14:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.20 ± 0.451 (0.648) C:75% T:92%**	pCi/L	01/03/25 14:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Thorium-228	HSL-300	**0.053 ± 0.174 (0.414) C:NA T:85%**	pCi/L	01/02/25 14:43	14274-82-9	
Thorium-230	HSL-300	**0.046 ± 0.109 (0.179) C:NA T:85%**	pCi/L	01/02/25 14:43	14269-63-7	
Thorium-232	HSL-300	**0.008 ± 0.109 (0.201) C:NA T:85%**	pCi/L	01/02/25 14:43	7440-29-1	
Uranium-234	HSL-300	**0.117 ± 0.114 (0.077) C:NA T:89%**	pCi/L	01/02/25 14:42	13966-29-5	
Uranium-235	HSL-300	**0.221 ± 0.180 (0.100) C:NA T:89%**	pCi/L	01/02/25 14:42	15117-96-1	
Uranium-238	HSL-300	**0.198 ± 0.149 (0.077) C:NA T:89%**	pCi/L	01/02/25 14:42		

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Greensburg, PA 15601
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QUALITY CONTROL - RADIOCHEMISTRY

Project: L2473538
Pace Project No.: 30742906

QC Batch: 716491
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30742906001, 30742906002

METHOD BLANK: 3490438
Matrix: Water
Associated Lab Samples: 30742906001, 30742906002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0419 ± 0.217 (0.451) C:NA T:85%	pCi/L	01/02/25 14:03	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: L2473538
Pace Project No.: 30742906

QC Batch: 716493
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30742906001, 30742906002

METHOD BLANK: 3490441 Matrix: Water
Associated Lab Samples: 30742906001, 30742906002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.785 ± 0.376 (0.626) C:77% T:89%	pCi/L	01/03/25 14:12	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: L2473538
Pace Project No.: 30742906

QC Batch: 717837
QC Batch Method: HSL-300
Analysis Method: HSL-300
Analysis Description: HSL300(AS) Actinides
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30742906001, 30742906002

METHOD BLANK: 3496643 Matrix: Water
Associated Lab Samples: 30742906001, 30742906002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Thorium-228	0.056 ± 0.183 (0.434) C:NA T:76%	pCi/L	01/02/25 14:43	
Thorium-230	-0.008 ± 0.117 (0.162) C:NA T:76%	pCi/L	01/02/25 14:43	
Thorium-232	0.000 ± 0.117 (0.088) C:NA T:76%	pCi/L	01/02/25 14:43	
Uranium-234	0.026 ± 0.115 (0.250) C:NA T:79%	pCi/L	01/02/25 14:42	
Uranium-235	0.000 ± 0.150 (0.113) C:NA T:79%	pCi/L	01/02/25 14:42	
Uranium-238	0.041 ± 0.115 (0.213) C:NA T:79%	pCi/L	01/02/25 14:42	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: L2473538
Pace Project No.: 30742906

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. Is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2473538
Pace Project No.: 30742906

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30742906001	**L2473538-08 MW-10S_R**	EPA 903.1	716491		
30742906002	**L2473538-09 EB_12132024_R**	EPA 903.1	716491		
30742906001	**L2473538-08 MW-10S_R**	EPA 904.0	716493		
30742906002	**L2473538-09 EB_12132024_R**	EPA 904.0	716493		
30742906001	**L2473538-08 MW-10S_R**	HSL-300	717837		
30742906002	**L2473538-09 EB_12132024_R**	HSL-300	717837		

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WO# : 30742906

30742906

Subcontract Chain of Custody

Pace Analytical (Greensburg, PA)
1638 Roseytown Rd, Suite 2
Greensburg, PA 15601

Pace Job Number
L2473538

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: L2473538 Report to include Method and/or Regulatory required batch QC

Additional Comments: NEEDS NYDEC EDD,ASPB/L4 Deliverables/Report to MDL/RA 226 by 903.1,RA 228 by 904.0,Thorium by HASL 300,Uranium by HASL 300

Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
	L2473538-08	MW-105_R	12-13-24 12:43	WATER	Radium 226	RA 226 by 903.1		0 001
				WATER	Radium 228	RA 228 by 904.0		0
				WATER	Thorium	Thorium by HASL 300		0
				WATER	Uranium by EPA 200.8	Uranium by HASL 300		0
	L2473538-09	EB_12132024_R	12-13-24 13:30	WATER	Radium 226	RA 226 by 903.1		0 002
				WATER	Radium 228	RA 228 by 904.0		0
				WATER	Thorium	Thorium by HASL 300		0
				WATER	Uranium by EPA 200.8	Uranium by HASL 300		0

Received by Pace Greensburg
Therm ID 14 Corr Factor +0.5
Receipt Temp 2.1
Corrected Temp 1.6
Correct Preservation (Y)N

Relinquished By:	Date/Time:	Received By:	Date/Time:
CHURN (FEDEX)	12/13/24 1837	JE	12/13 12:30
JE	12/13 1744-30	[illegible]	12-16-24 1730
[illegible]	12-16-24 2005	[illegible]	12-16-24 2005
[illegible]	12-16-24 2200	[illegible]	12-16-24 2200

Form No: AL_subcoc

DC#_Title: ENV-FRM-GBUR-0088 v07_Sample Condition Upon Receipt-Greensburg

Effective Date: 01/04/2024

WO# : 30742906

PM: SCR Due Date: 01/09/25

CLIENT: ALPHA ANALYT

Client Name: Alpha Analytical **Projec**

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other

Tracking Number: Drop-off

Initial / Date	
Examined By:	EL 12-17-24
Labeled By:	EL 12-17-24
Temped By:	VB 12-16-24

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No **Seals Intact:** ☐ Yes ☒ No

Thermometer Used: 14 **Type of Ice:** (Wet) Blue None

Cooler Temperature: Observed Temp 2.1 °C Correction Factor: -.5 °C Final Temp: 1.6 °C

Temp should be above freezing to 6°C

Comments:	Yes	No	NA	
Chain of Custody Present	✓			1.
Chain of Custody Filled Out:	✓			2.
-Were client corrections present on COC		✓		
Chain of Custody Relinquished	✓			3.
Sampler Name & Signature on COC:		✓		4.
Sample Labels match COC:	✓			5.
-Includes date/time/ID				
Matrix: WT				
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:		✓		8.
Sufficient Volume:	✓			9.
Correct Containers Used:	✓			10.
-Pace Containers Used		✓		
Containers Intact:	✓			11.
Orthophosphate field filtered:			✓	12.
Hex Cr Aqueous samples field filtered:			✓	13.
Organic Samples checked for dichlorination			✓	14:
Filtered volume received for dissolved tests:			✓	15:
All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	✓			16. pH<2
All containers meet method preservation requirements:	✓			Initial when completed: EL Date/Time of Preservation: Lot# of added Preservative:
8260C/D: Headspace in VOA Vials (> 6mm)			✓	17.
624.1: Headspace in VOA Vials (0mm)			✓	18.
Radon: Headspace in RAD Vials (0mm)			✓	19.
Trip Blank Present:			✓	Trip blank custody seal present? YES or NO
Rad Samples Screened <.05 mrem/hr.	X			Initial when completed: VB Date: 12-16-24 Survey Meter SN: 2504385

pH Paper Lot# 10D3241 | D.P.D. Residual Chlorine Lot # —

Comments:

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office.
PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

Qualtrax ID: 55680

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DC#_Title: ENV-FRM-GBUR-0072 v04_Sample Container Count Offshore Projects
Effective Date: 04/18/2024

Client

Site LZ473538

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Profile/EZ Login Number 21500

Notes

Sample Line Item	Matrix	Amber Glass					Plastic								Vials					Other									
		AG1H	AG3S	AG3U	AG5U	AG5T	BP1N	BP1U	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	DG9S	VG9H	VG9T	VG9U	VOAK	WGFU	WGKU	ZPLC	GCUB	GJN	12GN	AG1U	BG1U	BP2N	
001	WT						4																						
002	WT						4																						

Container Codes

Glass

GJN	1 Gallon Jug with HNO3	DG9S	40mL amber VOA vial H2SO4
AG5U	100mL amber glass unpreserved	VG9U	40mL clear VOA vial
AG5T	100mL amber glass Na Thiosulfate	VG9T	40mL clear VOA vial Na Thiosulfate
GJN	1 Gallon Jug	VG9H	40mL clear VOA vial HCl
AG1S	1L amber glass H2SO4	JGFU	4oz amber wide jar
AG1H	1L amber glass HCl	WGFU	4oz wide jar unpreserved
AG1T	1L amber glass NA Thiosulfate	BG2U	500mL clear glass unpreserved
BG1U	1L clear glass unpreserved	AG2U	500mL amber glass unpreserved
AG3S	250mL amber glass H2SO4	WGKU	8oz wide jar unpreserved
AG3U	250mL amber glass unpreserved	GN	General

Plastic/Misc.

GCUB	1 gallon cubitainer
12GN	1/2 gallon cubitainer
SP5T	12
BP1N	1L
BP1U	1L
BP3S	2
BP3N	2
BP3U	250mL plastic unpreserved
BP3B	250mL plastic NAOH
BP2S	500mL plastic H2SO4
BP2U	500mL plastic unpreserved

EZI	5g Encore
VOAK	Kit Volatile Solid
	vab
	ag

OL	Non-Aq Liquid
WP	Wipe

WO#: 30742906

PM: SCR Due Date: 01/09/25

CLIENT: ALPHA ANALYT

Qualtrax ID: 55678